

CHARLES LENTZ & SONS

MANUFACTURERS OF

Surgical Instruments,

Orthopedic Apparatus, etc.

7th EDITION. CATALOGUE

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Your correspondence is solicited.

CHARLES LENTZ & SONS

ESTABLISHED 1866

INCORPORATED 1906

CHARLES LENTZ & SONS

ILLUSTRATED CATALOGUE
AND PRICE LIST OF

Surgical Instruments Hospital Supplies

Orthopedic Apparatus, Trusses, etc.



SEVENTH
EDITION

CHARLES LENTZ & SONS

SURGICAL INSTRUMENTS

33 So. 17th St., - PHILADELPHIA

TO THE MEDICAL PROFESSION.

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[1915?]

CHARLES LENTZ & SONS.

Established 1866.
Incorporated 1906.



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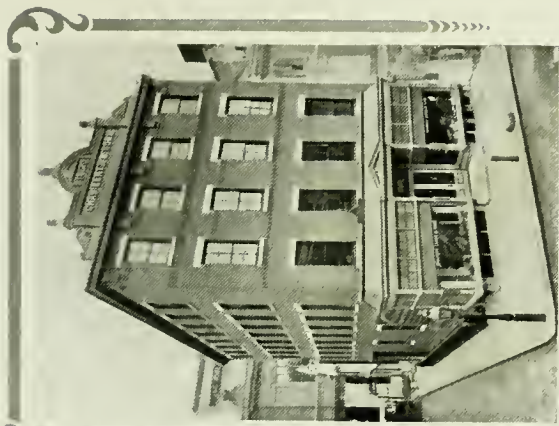
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APPROXIMATE COSTS OF REPAIRING, NICKEL-PLATING, ETC.

We will receive Surgical Instruments and Medical Apparatus of every description for any required repairs, sharpening, polishing, silver or nickel-plating. While space does not admit of an extended price-list for these items, the following, relating to many instruments in general use, will be found convenient. Charges for repairing sets and large collections of instruments will be in proportion to time expended.

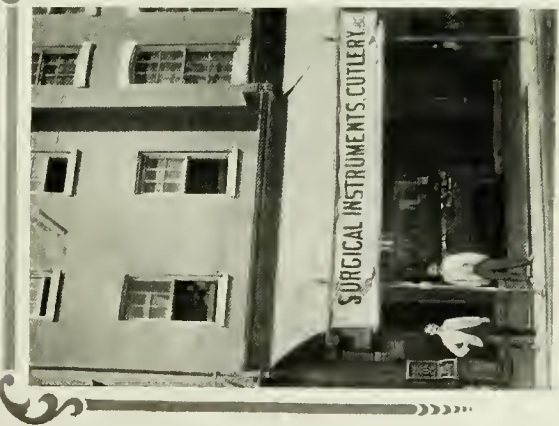
Amputating Knives, sharp. and pol..\$	25 to \$	50	Nasal Cutting Forceps, sharp. and polished	20 to	40
Amputating Saws, sharp. and pol...	35 to	75	Needle Holders, repaired, pol. and plated	35 to	75
“ “ sharp., pol. and plated	1 00 to	1 50	Obstetric Forceps, pol. and plated...		1 00
Artery Clamp Forceps, large, new jt.	25 to	30	“ “ metal handles put on, pol. and pla.	2 00 to	3 00
“ Forceps, pol. and pla.....	20 to	30	Pocket Case Knives, sharp. and pol., each blade...		15
“ Hemostats, pol. and pla.....	25 to	35	“ Cases, new, see page 81.		
“ “ new aseptic jt..	20 to	25	Pump, Air Compressor, repacked....	50 to	75
Aspirator Needles, sharp., pol. and plated	20 to	25	Rongeur Forceps, repaired and sharp.	30 to	50
“ Pumps, repacked	40 to	60	Saws, Nasal, sharp. and polished....	25 to	40
Atomizers, hand, metal tubes cleared	10 to	15	“ Plaster, sharp. and polished..	25 to	35
“ hand, new inner met. tube	20 to	30	Scarificators, new trigger spring....		50
Bone Forceps, polished and plated...	40 to	60	“ sharp. and polished....	1 00 to	1 50
“ “ polished and repaired	50 to	75	Scissors, straight, sharp. and pol....	15 to	20
“ Gouges, sharpened and polished	15 to	25	“ curved, sharp. and polished	20 to	25
Bougies, metal, polished and plated..		25	(Special rate in quantity lots.)		
Catheters, cracked from use, cannot be repaired.			Scissors, regular, sharp., pol. and pla.	35 to	50
“ metal, polished and plated	25 to	40	“ Nasal and Tonsil, sharp. and polished	25 to	50
Chisels, sharpened and polished.....	10 to	20	“ Uterine, sharp. and pol....	25 to	30
Curcttes, Adenoid, sharpened	25 to	40	“ sharp., pol. and plated	50 to	75
“ Bone, sharpened	15 to	25	“ “ Emmett's, sharp. and polished...	35 to	50
“ Ear and Nasal, sharpened..	15 to	25	“ new aseptic joint.....	20 to	25
“ Uterine, sharpened	15 to	20	Shears, Bandage, sharp. and pol., small, .20; medium, .25; large		30
“ sharpened, pol. and plated.	40 to	60	“ Bandage, sharp., pol. and plated	40 to	75
Dilators, Uterine, pol. and plated....	50 to	75	Sounds, Uterine, pol. and plated...		20
“ “ repaired, pol. and plated	1 00 to	1 50	Specula, Ear and Nasal, pol. and pla.	20 to	35
Eye Hooks, Scoops, etc., polished...		15	“ Rectal and Vaginal, pol. and plated	50 to	1 00
“ Keratomes, polished and sharp..		35	Spring Lancets, repaired and sharp.		25
“ Knives and Needles, pol. and sharpened		25	Stethoscopes, single, hard rubber ear disc		40
“ Scissors, polished and sharpened	25 to	35	Syringes, Antitoxin, new glass barrel and packing		50
Forceps, Adenoid, pol. and sharpened	20 to	40	“ Aspirating, new glass barrel and packing		50
“ Dissecting, pol. and plated.	20 to	25	“ hard rubber, repacked....	25 to	40
“ Hemostatic, pol. and pla..	25 to	35	“ hard rubber, new piston rod	25 to	60
“ “ new aseptic jt.	20 to	25	“ hard rubber, new piston rod and packing.....	45 to	1 00
“ Tissue, repairing teeth, pol. and plated	40 to	50	Tonsilotomes, sharp. and polished...	35 to	45
“ ring handle, pol. and pla...	50 to	75	“ sharp., pol. and pla..	1 00 to	1 50
Hypodermic Needles, see page 300.			Tooth Forceps, repointed, pol. and plated	40 to	60
“ “ repaired and pointed		10	Trephines, sharp. and polished.....	40 to	65
“ Syringes, new plain glass barrel and packing...		40	“ sharp., pol. and plated...	75 to	1 00
“ Syringes, all metal, repaired	15 to	25	Trocars, pol., repointed and plated..	25 to	35
“ Syringes, repacked		25			
Knives, Scalpels, Bistouries, Tenotomes, etc., sharp. and polished....		15			
(Special rate in quantity lots.)					
Knives, Uterine, sharp. and polished.	15 to	25			
Mirrors, new glass costs as much as new mirror, see page 234.					



1886 - 1915



CHARLES LENTZ, SR.
FOUNDER



1880 - 1886



View of
H



of Sixth Floor, for the making of Surgical Instruments, Orthopedic Appliances, Electrical Apparatus, etc.
Here all Grinding, Polishing and Nickel-plating are done. All machinery is driven by electric motors.



View of First Floor Salesroom (behind Second Floor)

Section I.

General Surgical Necessities.

**Amputating and General Operating
Instruments.**

A Few Points Concerning the Manufacture of Our Surgical Instruments.

Surgical Cutting Instruments require the maker's closest attention, from the ordering of the raw material to the final touch of providing a keen edge. We procure for these instruments the very best tool steel, specially made for us according to our own specifications by a world-renowned firm. The blade of every knife made in our factory is heated several times during the process of forging the rough shape, instead of only once as is usual. Repeated heating avoids excessive temperature which must necessarily injure the steel by consuming its carbon. The benefit of our method to the quality of the instrument is invaluable; but owing to the increased labor and time involved, few manufacturers follow this practice.

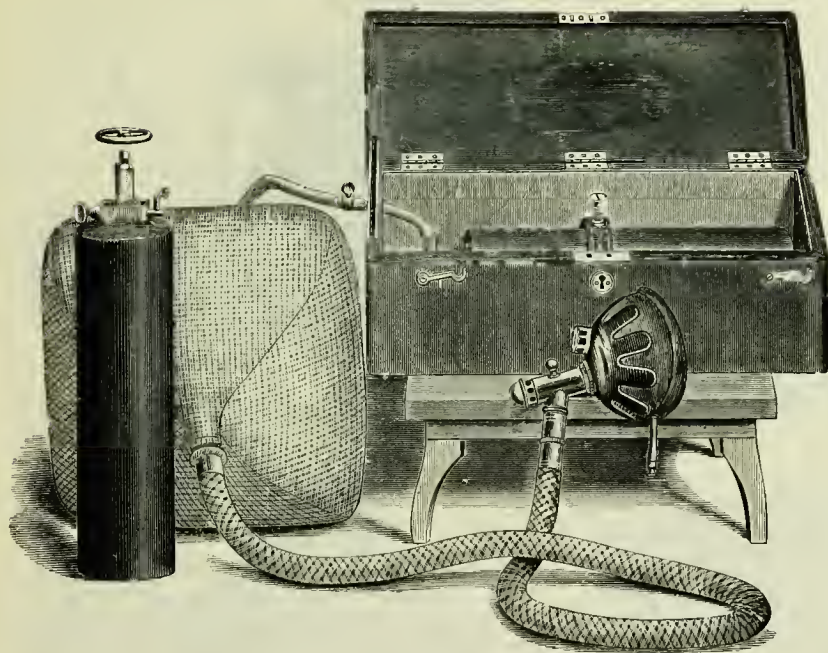
Subsequent to forging, the blade is subjected to a vigorous hammering which toughens it and renders it tenacious of a keen edge. The final processes of tempering, grinding and honing are carried out with the utmost care. We are proud to assert that our mechanics in this line are experts and equal to the best in the world, and we can guarantee therefore every instrument that issues from our workshops.

As far as practicable, every instrument is constructed in such manner that it can be readily rendered aseptic.

Sharpening, repairing and nickel-plating has always our prompt and best attention. (See approximate quotations under "Repairing.")



General Surgical Necessities.
ANESTHETICS.



75

75.* Nitrous Oxid Outfit, for the convenient administration of nitrous oxid in general surgical practice.

Consists of a steel cylinder containing at least 100 gallons of liquefied nitrous oxid, the necessary tubing attached, gas bag, and inhaler with inflatable rubber face-piece. The whole enclosed in a stout wood case, leather covered and lined with velvet; very compact and portable; size, 18 x 7 x 7 inches. The small stop-cock inserted in the tubing between the bag and the cylinder enables the operator, after having filled the bag, to shut off the gas and disconnect the bag from the cylinder, if desired for use where it is not convenient to carry the cylinder.

No. 1 Outfit, complete, with 4½-gallon bag and filled cylinder . . . \$31 75

No. 2 Outfit, complete, with 7-gallon bag and filled cylinder 32 50

78. Combination Nitrous Oxid and Oxygen Outfit, for hospital.

Consists of a stand furnished with casters carrying the cylinders of nitrous oxid and of oxygen, with the necessary paraphernalia for their admixture, and for controlling the supply of either gas independently.

No. 1 Outfit, without cylinders of gas \$45 00

No. 2 Outfit, complete, with two small cylinders containing respectively 100 gallons of nitrous oxid and 40 gallons of oxygen, 4 feet silk-covered tubing, 2 two-gallon gas bags, and inhaler with inflatable face-piece 61 00

No. 3 Outfit, same as No. 2, but with two medium size cylinders, containing respectively 250 gallons of nitrous oxid and 75 gallons of oxygen 73 75

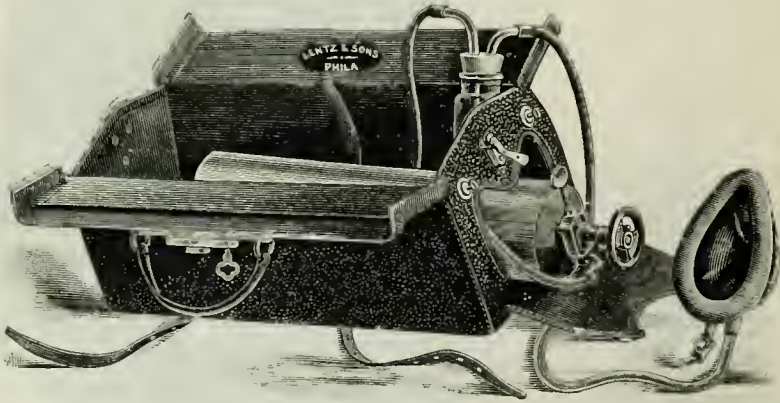
Pamphlet on Liquefied Nitrous Oxid and Compressed Oxygen, and on Apparatus for their Administration, with illustrations, complete description and prices, sent on application.

Extra cylinder, small size, of 100 gallons	nitrous oxid	\$8 00
“ “ “ “ 40	oxygen.	8 00
“ “ medium “ “ 250	nitrous oxid	15 00
“ “ “ “ 75	oxygen	13 75
Refilling “ small “ “ 100	nitrous oxid	2 00
“ “ “ “ 40	oxygen.	2 00
“ “ medium “ “ 250	nitrous oxid	5 00
“ “ “ “ 75	oxygen.	3 75

Transportation at expense of customer.

General Surgical Necessities.

ANESTHETICS.



100

- 100.* Oxygenated-Chloroform Apparatus, H. L. Northrop's, for the safer administration of chloroform as an anesthetic, complete with cylinder of oxygen filled ready for use, in a fine Seal Grain Leather Cabin Bag 17 in. long, 7½ in. wide, 8 in. deep \$29 50

This Outfit consists of a small steel cylinder holding 40 gallons of pure oxygen and provided with a small wheel for controlling the pressure; a graduated three-ounce bottle with metal tubulatures; the requisite length of tubing, a one-gallon gas bag, and an inhaler. The latter is a metallic hood provided with an inlet tube for the admission of oxygen and an exhalation valve which prevents the inhalation of carbonic acid gas; attached to the hood is an inflatable rubber face shield. Sufficient space is left in the bag for carrying a can of ether, folding ether inhaler, hypodermic syringe, tongue-holding forceps, proper stimulants, infusion apparatus, mouth-gag, etc.

The apparatus is quite portable and weighs less than 20 lbs.

101. The same apparatus put up in a smaller bag, 17 x 4½ x 5½ in., not accommodating the accessories, but with a one-gal. gas bag attached to inhaler . . . \$29 50
 102. The same apparatus with Northrop's two-way stop-cock 37 50

Prices of Separate Parts.

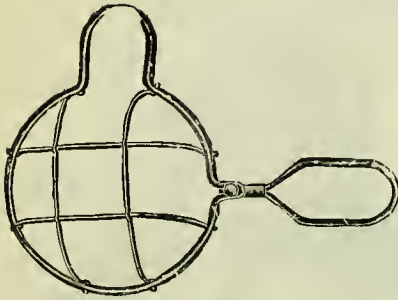
Extra Cylinder of 40 gallons Oxygen	\$8 00
Refilling " " 40 " "	2 00
Inflatable Face Shield	1 10
Graduated Chloroform Bottle	35
Rubber Stopper with two holes	40

N. B. When extra cylinders of gas are ordered they are always charged and full price (\$6.00) credited when returned. Transportation at expense of customer.

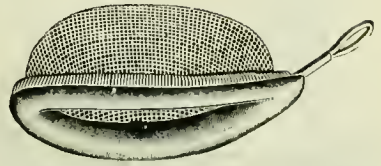
As we frequently receive several cylinders a day, to avoid mistakes and delays, sender should give his own name and address on the tag or label that bears our address.

*All instruments illustrated are designated by a *.*

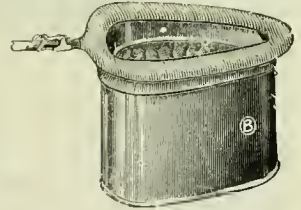
General Surgical Necessities.
ANESTHETICS.



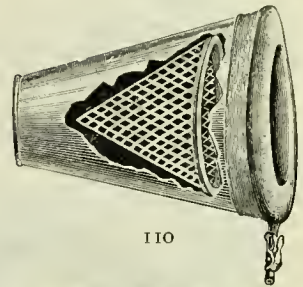
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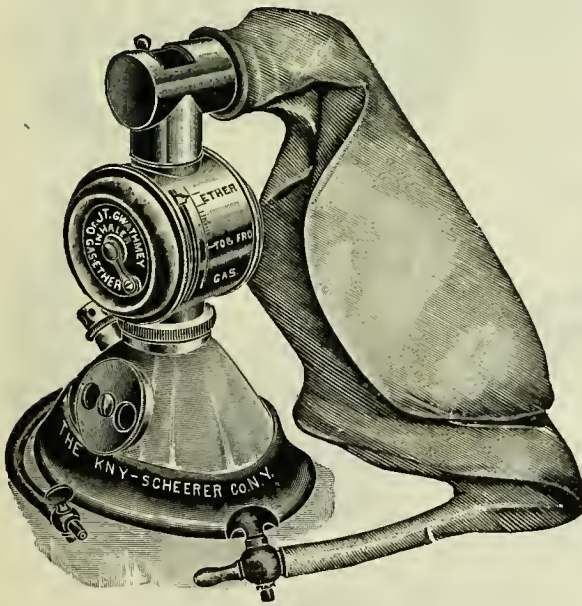
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105-106



110



93

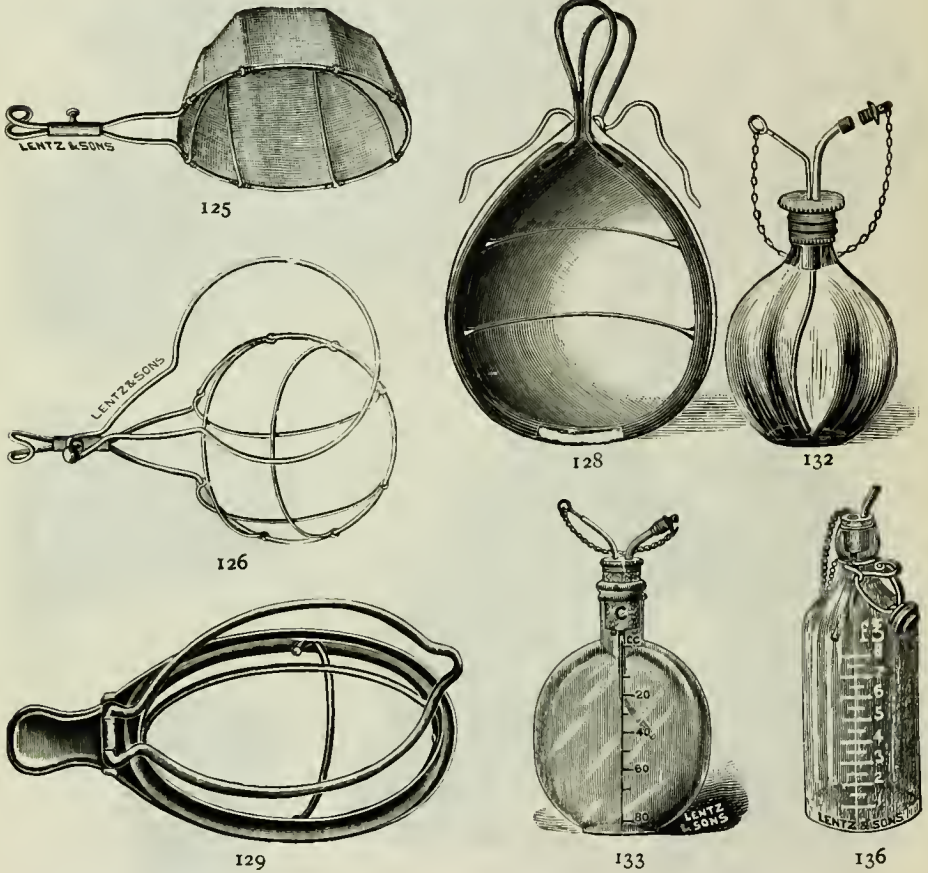


91

105.*	Ether Inhaler, Allis', metal frame and cover	\$2 25
106.*	“ “ “ “ “ “ with inflatable rubber face shield	3 25
107.	“ “ Frame, Allis', with bandage and needle, without metal cover	1 15
108.	“ “ Fowler's folding, for the convenience of carrying in the pocket or satchel	2 25
109.	“ “ Stellwagen's	5 00
110.*	“ “ Blake's, with inflatable rubber face shield	2 75
91.*	“ “ Townsend's, with inflatable rubber face shield	2 75
92.	“ “ Laplace's	7 50
93.*	“ “ Gwathmey's, for nitrous oxid gas and ether combined, \$33 00; same, in case	38 00
	Special booklet upon application.	
94.	Universal Inhaler, Hassler's; very similar to Gwathmey's Inhaler; the mixing and regulating chamber is so constructed that one gas may be admitted, or any combination made; complete	50 00
95.*	Chloroform, Inhaler, Yankauer's	1 75
96.*	“ “ Ochsner's	1 00
97.	“ “ Megrail's modified Esmarch's; wire ring fitting on inside, thereby covering the edge of the frame with gauze	75

General Surgical Necessities.

ANESTHETICS.



125.*	Chloroform Inhaler, Esmarch's, plain wire frame with drop bottle	\$ 75
126.*	“ “ “ improved wire frame with drop bottle	75
127.	“ “ “ with drop bottle and tongue-holding forceps in solid leather case	4 50
128.*	“ “ Leiter's, folding, with drop bottle	1 50
129.*	“ “ Schimmelbusch's, folding, with drop bottle	1 35

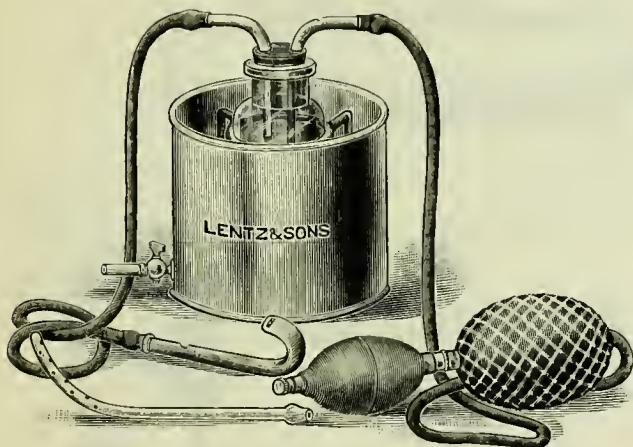
The arched wires of Nos. 128 and 129 fold down flat with frame, making it convenient to carry in pocket or satchel. The Esmarch's Improved Inhaler, No. 126 and Schimmelbusch's Inhaler have the advantage that a few layers of plain gauze can be used instead of the special cover, the latter requiring cleaning, whereas the gauze can be replaced every time. The illustrations show the wire frames that are closed down over the gauze and hold it securely.

132.*	Chloroform Bottle with drop tubes, plain	\$ 40
133.*	“ “ “ graduated, fine	75
134.	“ “ with lever stop-cock, can be controlled with thumb	1 25
136.*	Ether Bottle, Roberts', oval, with improved drop tube	85

*All instruments illustrated are designated by a *.*

General Surgical Necessities.

ANESTHETICS AND ACCESSORIES.



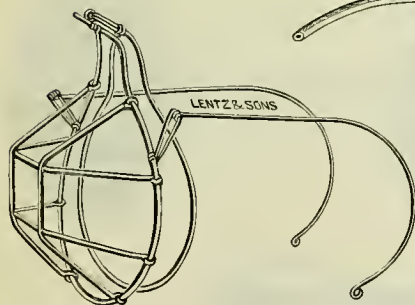
99



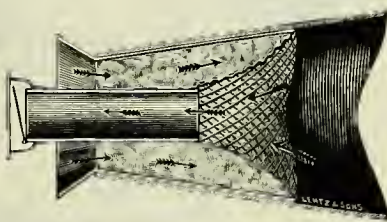
122-123



118



131



98

- 98.* Ether Inhaler, E. O'Neill Kane's; metal, packed with gauze; exhalation through central tube with valve at end; with laced rubber hood . . \$4 00
Illustration shows sectional view.
- 99.* Ether Vapor Inhaler, Mary P. S. Rupert's, for the administration of ether in operations about the mouth and face 8 00
Extra parts:—Hollow metal retractor \$1 75
Nasal tube, pliable metal 85
Hand bulbs, including tubing 1 75
Descriptive circular on application.
- 118.* Ether Dropper, H. L. Northrop's, to use with Squibb's can or ordinary bottle 40
- 121. Ether Bottles, plain graduated 4 oz., 50c.; 6 oz., 60c.; 8 oz. 70
- 122.* " Drop Bottle, 4 oz., with enameled label "Ether" 1 25
- 123.* Chloroform Drop Bottle, 4 oz., with enameled label "Chloroform," amber 1 25
- 115. Mouth Wedge, H. L. Northrop's, aluminum 1 00
- 116. " Screw, hard rubber 60
- 147. Tongue-Holding Forceps, H. L. Northrop's, with catch, 5 1/2 inch 1 85
- 148. " " " Carmalt's, like No. 156 Berger's, only one prong 2 25
- 149. " " " Senn's, fenestrated blade and one prong 2 00

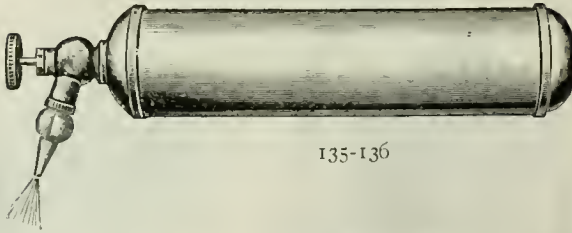
Protective Wire Mask Frames, for use in Surgical Operations.

- 130. Face Mask, Mikulicz's, with gauze sewed around edge, per doz., \$6 00; each 60
- 131.* " " Lentz's Improved, with wire ring fitting on inside to hold the gauze; can be readily renewed per doz., \$9 50; each 90

*All instruments illustrated are designated by a *.*

General Surgical Necessities.

ANESTHETICS AND INHALERS.



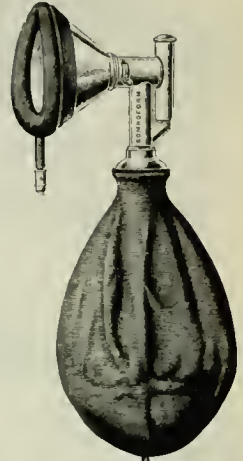
135-136



137-139



158



160



159

Ethyl Chloride for Local Anesthesia and for Narcosis.

135.*	Ethyl Chloride, Gebauer's, 40-gram metal container	\$1 00
136.*	" " 60 " " "	1 60
137.*	" " Antidolorin, 60-gram automatic metal container	1 10
138.*	" " " 100 " " " "	1 60
139.*	" " " " for narcosis, 60-gram automatic glass container	1 10
158.*	" " " " Inhaler, Green's	5 00

Booklets of the above, giving valuable information, on application.

159.*	Somnoform, in sealed glass capsules, for anesthesia:	
	3 cc. capsules, per pkg. of 1/2 doz., \$1 50; per pkg. of 1 doz.	2 50
	The proper quantity for ordinary administration.	
	5 cc. capsules, per pkg. of 1/2 doz., \$1 50; per pkg. of 1 doz.	2 75

The proper quantity for exceptional cases and prolonged anesthesia.

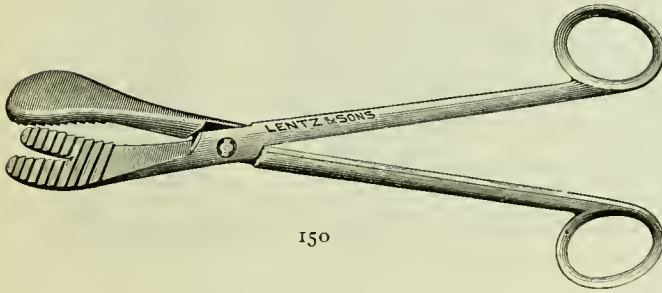
160.*	Somnoform Inhaler, Stark's; consists of a metal face mask having an inflatable rubber rim, a metal frame work of several cylinders joined together, and a collapsible rubber bag; complete in case	12 00
-------	--	-------

The Stark Inhaler is not suited for anesthesia in dentistry. It is intended for the continuous administration of somnoform, or somnoform with ether sequence, and requires 5 cc. capsules. A text-book on surgical anesthesia, which describes the manipulation of the Stark Inhaler and the induction of surgical anesthesia, will be forwarded on request.

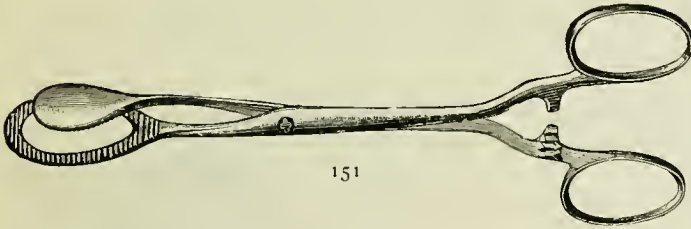
*All instruments illustrated are designated by a *.*

General Surgical Necessities.

TONGUE-HOLDING FORCEPS.



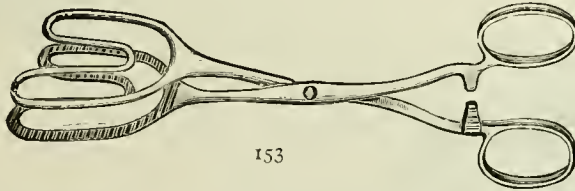
150



151



156



153

150.*	Tongue-Holding Forceps, Eddy's	\$ 3 00
151.*	" " Mathieu's	1 75
152.	" " Cusco's	2 00
153.*	" " Houze's	2 50
155.	" " Collin's fenestrated, ring blade	1 75

When it becomes necessary, during the administration of Ether, to pull the tongue forward, commonly an ordinary Dressing Forceps or a Tenaculum is employed.

These instruments, however, naturally injure the tongue, and it is therefore urgently advisable to use a proper instrument that will do the service without leaving bad effects.

Either of the forceps illustrated above are very satisfactory. The blades being broad, they will not cause any soreness, while the serrations will prevent slipping without necessitating undue pressure.

156.*	Tongue-Holding Forceps, Berger's, two prongs fitting into a smooth flat blade	\$ 2 00
157.	" " Esmarch's	1 00

*All instruments illustrated are designated by a *.*

General Surgical Necessities.

DRESSINGS.

165. Unbleached Roller Bandages.

1 inch by 5 yards	.per dozen	\$0 45	3 inch by 5 yards	.per dozen	\$0 90
1½ " 5 "	"	55	3½ " 5 "	"	1 05
2 " 5 "	"	65	4 " 5 "	"	1 15
2½ " 5 "	"	75			
Any size, or assorted, in cartons . . . . .					.per pound 75

The purchaser profits in buying bandages by weight.

166. Gauze Bandages—Plain.

1 inch by 10 yards	.per dozen	\$0 45	2½ inch by 10 yards	.per dozen	\$0 75
1½ " 10 "	"	55	3 " 10 "	"	85
2 " 10 "	"	65	4 " 10 "	"	1 10
Any size, or assorted, in cartons . . . . .					.per pound 85

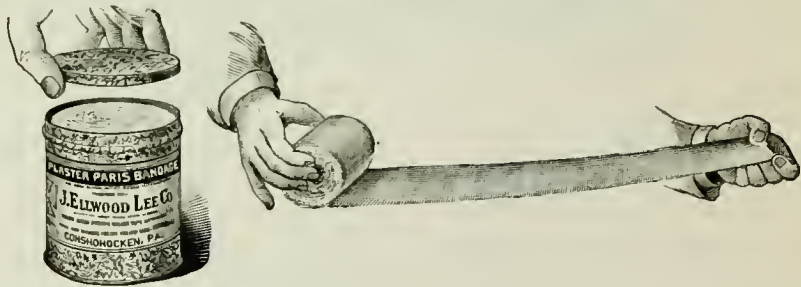
167. Flannel Bandages—White.

1½ inch by 5 yards each,	20c.;	dozen \$2 20	3 inch by 5 yards each,	40c.;	dozen \$4 15
2 " 5 " " "	27c.;	" 2 85	3½ " 5 " " "	45c.;	" 4 85
2½ " 5 " " "	35c.;	" 3 50			

170.* Double or Tubular Stockinette Material,

to draw over limbs or body before applying plaster bandages.

2½ inch tube, heavy	.per yard	\$0 20
4 " " "	"	25
6 " " "	"	30
8 " " "	"	35
10 " " "	"	40
4 inch by 5 yards bandage, light, each,		35c.;
dozen		3 50



172

172.* Plaster of Paris Bandages

spread on a sterilized gauze material, which allows the plaster to set very quickly; made by new machinery, which presses or imbeds the plaster into the gauze. Each bandage packed in waxed paper in a neat tin box.

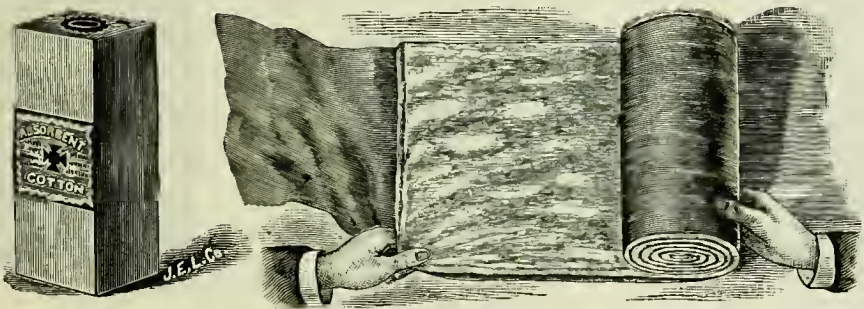
2 inch by 5 yards	.each,	20c.;	per dozen,	\$2 00
2½ " 5 "	"	22c.;	"	2 30
3 " 5 "	"	25c.;	"	2 65

Bandage Rollers, Shears, Plaster Saws, etc., see Fracture Appliances or Index.

*All instruments illustrated are designated by a *.*

General Surgical Necessities.

DRESSINGS.



180-182

	Best Quality.	Sizes of Packages . . .	1 lb.	½ lb.	¼ lb.
180.*	Absorbent Cotton, plain		\$0 40	\$0 25	\$0 15
181.*	“ “ borated		60	35	20
182.*	“ “ carbolated		60	35	20
183.	Non-Absorbent Cotton		40	....	....
186.	Absorbent Lint		65	....	....
187.	Jute, plain		35	....	....
188.	Oakum, plain		25	....	....
190.	Lambs' Wool, "Merino," loose rope-like rovings		2 10	1 10	60
191	“ “ plain, in sheets . . . . .		....	1 10	60
195.	Oiled Silk, bright, 28 inches wide . . . . .		....	per yard	1 50
199.	Gutta-Percha Tissue, 36 inches wide, medium . . . . .		....	“	50
201.	Mackintosh Cloth, 36 inches wide, best quality . . . . .		....	“	1 10
202.	Rubber Dam, pure gum, 36 inches wide . . . . .		....	“	2 50
205.	Water-Proof Cloth , 39 inches wide, Billroth's genuine Vienna } surgical dressing, light and durable; can be sterilized; is } used extensively for covering pillows and making surgeons' } aprons . . . . . }		....	“	65
206.	Batiste, Dr. Mosetig's—Vienna, double coated, 36 inches wide; } used by surgeons for keeping patients dry during operations. } and more especially in intestinal anastomosis to assist in } shutting off the peritoneal cavity from incised bowels . . }		....	“	1 25
203.	Pure Silver Foil, Halsted's, for covering wounds . . . . .		....	per book	25
207.	Silver Wire Screen, fine mesh, for covering wounds, } 2¾ x 3½ inch, \$3 00; 3¾ x 4¾ inch } each, 25c.; per dozen } 2 50		....	....	....
208.	Cargile Membrane, in sheets 4 x 6 inches . . . . .		....	....	6 75
209.	Emergency Accident Case . . . . .		....	....	6 75
	Complete outfit for factories, mines, railroads, steamships, etc., in heavy tin case finely enameled, containing two First Aid for Wounds, two ounces Absorbent Lint, one capsule Iodoform Gauze, six one-yard packages Absorbent Gauze, three four-ounce packages Cotton, one spool "Z O" Adhesive Plaster, 1 inch wide; nine Roller Cotton Bandages, 2 inches wide; nine Roller Cotton Bandages, 2½ inches wide; nine Gauze Bandages, 2 inches wide; nine Gauze Bandages, 2½ inches wide; one jar Carbolized Petrolatum, one bottle Camphenol and bottle for solution, one Scissors, one Tweezers, one Tourniquet, two packages Safety Pins, one First Aid Manual.				

General Surgical Necessities.

DRESSINGS.



214 a-b-c



214 a-b-c



210-213

Antiseptic Gauzes, in Patent Glass Containers.

210.*	Sublimated, 1 to 2000	.1 yard,	20c.;	5 yards	\$0 80
211.*	Borated, 10 per cent.	.1 "	20c.;	5 "	80
212.*	Carbolated, 10 per cent.	.1 "	20c.;	5 "	80
213.*	Iodoform, 10 "	.1 "	40c.;	5 "	1 45

Antiseptic Gauzes, in Air-Tight Cartons.

214.	Plain, Sterilized			5 yards	\$0 35	
214a.*	"	No. 1, for general use	.25 yards,	\$1 50;	100 "	5 50
214b.*	"	No. 2, medium open mesh	.25 "	\$1 40;	100 "	5 00
214c.*	"	No. 3, open mesh	.25 "	\$1 30;	100 "	4 50

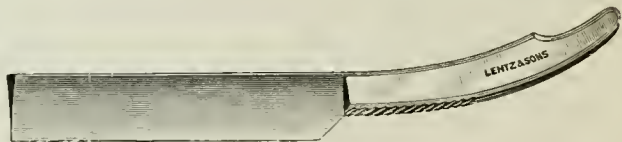
245.* Surgeons' "Z. O." Adhesive Plaster.



245

	1/2 inch by 10 yards long,				
		per doz. spools,	\$4 80;	each	\$0 50
1	inch by 10 yards long,				
		per doz. spools,	\$6 00;	each	65
2	inch by 10 yards long,				
		per doz. spools,	\$8 40;	each	90
3	inch by 10 yards long,				
		per doz. spools,	\$13 20;	each	1 25
12	inch by 5 yards long,				
		per doz. rolls,	\$24 00;	each	2 25
6	inch by 1 yard long, on moleskin.	each			65
7	" " 1 " " isinglass, on silk,	each			60
		per doz.,	6c.;	per gross	60
		"	8c.;	"	70
		"	10c.;	"	80

250.	Safety Pins, small	per doz.,	6c.;	per gross	60
	" " medium	"	8c.;	"	70
	" " large	"	10c.;	"	80



255-256



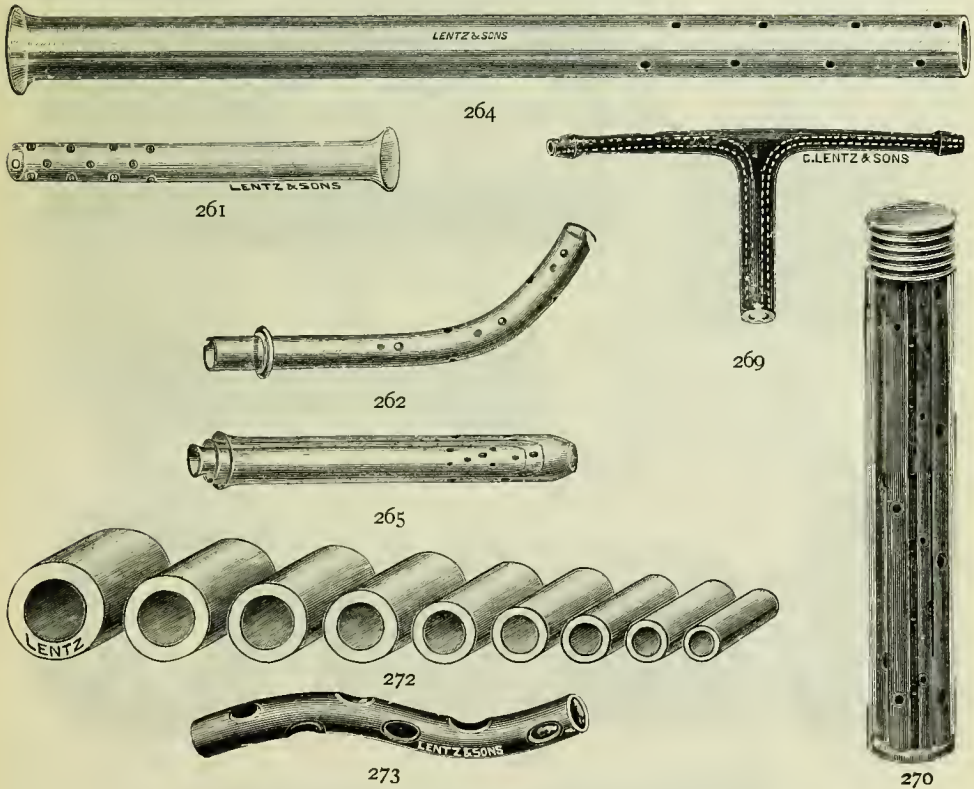
253

253.*	Razor, concaved, superior quality,				
	h. r. handle,				
	1/2 in.,	\$1 50;	5/8 in.,	\$1 75;	3/4 in. \$1 90
254.	Razor, concaved, superior quality,				
	removable metal handle				2 00
254a.	Razor, concaved, superior quality,				
	small size, with metal handle				1 25
255.*	Razor, concaved, superior quality, Hunter Robb's, in fine leather case				2 00
250.*	" " " " " plain case				1 50

*All articles illustrated are designated by a **

General Surgical Necessities.

DRAINAGE TUBES AND TUBING.

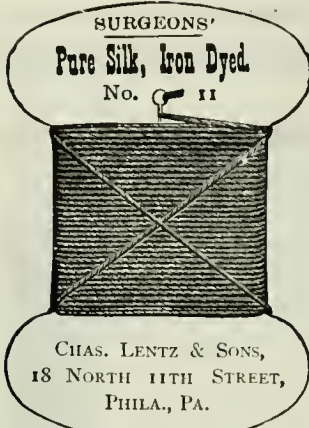


260.	Drainage Tube, Glass, Gross', 5 sizes and lengths, each 10c., 12c., 15c., 18c. .	\$0 20
261.*	" " " Thomas', straight, 3 sizes . . . per doz., \$2 25; each	25
262.*	" " " " curved, 3 " . . . " 2 25; "	25
264.*	" " " Price's straight, 1 size, 5, 6 and 7 inches long, per doz., \$2 25; "	25
265.*	" " " Van Lennep's, 3 sizes, nested . . . " 2 25; "	25
266.	" " " Tait's, 2 sizes, bulb end perforated "	40
267.	" " " Keith's, bulb end and two oval holes "	40
268.	" " " Supra-Pubic (see Male Urethral Instruments)	
269.*	" " " Hard Rubber, Thomas' double "	I 75
269a.	Gauze Drain Covers, pure gum, very thin, six sizes, 3/8 inch, 1/2 inch, 5/8 inch, 3/4 inch, 7/8 inch, 1 inch per foot	25
270.*	Drainage Tubing, Soft Rubber, perforated, five 6 in. pieces, assorted sizes	40
272.*	" " " Pure Gum, not perforated, best quality, black or maroon. Sizes stated are internal diameter. Prices per foot:	
	1/8 inch	09
	3/16 "	14
	1/4 "	18
	5/16 "	25
	3/8 "	40
	1/2 "	60
	5/8 "	75
273.*	" " " Pure Gum, perforated, add 20% to prices of No. 272.* For White Tubing, see Rubber Goods.	

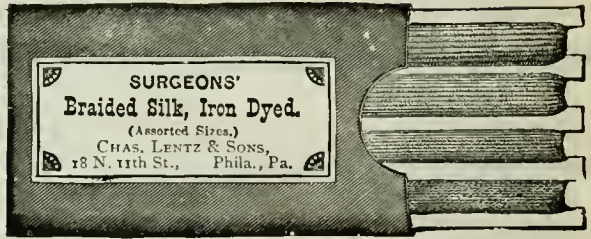
*All instruments illustrated are designated by a *.*

General Surgical Necessities.

LIGATURES AND SUTURES.



280 and 286



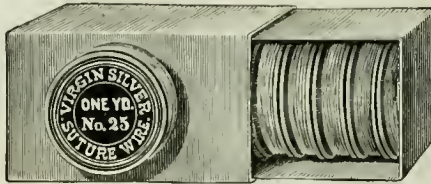
282 and 287



294



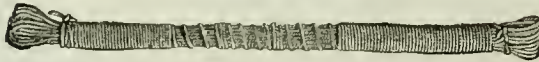
290 and 291



295



296



292

280.*	Silk, Twisted, White or Iron dyed, on reel, 14 sizes, per doz., 80c.; 3 for 25c.	each \$0 10
282.*	“ “ “ “ “ 4 sizes on a tablet in slip case .	“ 30
283.	“ “ “ “ “ 3 sizes on glass spools in solution .	“ 65
284.	“ “ “ “ “ 1 size in Tank package with solution	“ 75
286.*	“ Braided “ “ “ “ on reel, 14 sizes, per doz., \$1 75;	“ 18
287.*	“ “ “ “ “ 4 sizes on a tablet in slip ease	“ 45
288.	“ “ “ “ “ 3 sizes on glass spools in solution .	“ 65
289.	“ “ “ “ “ 1 size in Tank package with solution	“ 75
290.*	“ “ “ “ “ 14 sizes on half oz. spools . . per ounce	2 50
291.*	“ Twisted “ “ “ “ 14 sizes on half oz. spools	“ 1 50
292.*	“ Cable Twist, White, 7 sizes, in skeins per doz., \$1 75; each	20
294.*	“ Tait's genuine hand-made, White, 3 sizes, in skeins “ 3 50; “	35
295.*	Pure Silver Wire, for Suture, six 1-yard spools in box, assorted sizes . . .	75
296.*	“ “ “ “ “ all sizes, from 14 to 30 . . . per ounce	2 25
	“ “ “ “ “ per yard, No. 14, \$2 25; No. 16, \$1 50; No. 18	1 00
	“ “ “ “ “ per 2-yard coils, No. 20, \$1 20; No. 22, 70c.; No. 24	45
	“ “ “ “ “ per 2-yard coils, No. 25, 40c.; No. 26, 30c.; No. 27	25
	“ “ “ “ “ per 2-yard coils, No. 28, 25c.; No. 29, 20c.; No. 30	20
298.	Pure Gum Elastic Ligature, Nos. 3, 4, 5, 6 and 7, Amerieau seale . . . per yard	15

All instruments illustrated are designated by a *.

General Surgical Necessities.

LIGATURES AND SUTURES.



311 314



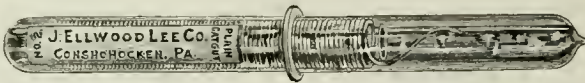
311 314

Sampson and Soch's Certified Ligatures.

These ligatures have been prepared since 1892 and are used by many of the most prominent surgeons and hospitals in this country, who unquestionably consider their Sterility, Tensile Strength and Uniformity of size the best that modern methods can produce.

Sizes of catgut, 00, 0, 1, 2, 3, 4

- 311.* Catgut, plain, 5 feet in each tube, 6 tubes in a box . . . per dozen tubes \$2 00
- 314.* " chromicized, 5 feet in each tube, 6 tubes in a box " " " 2 00



315

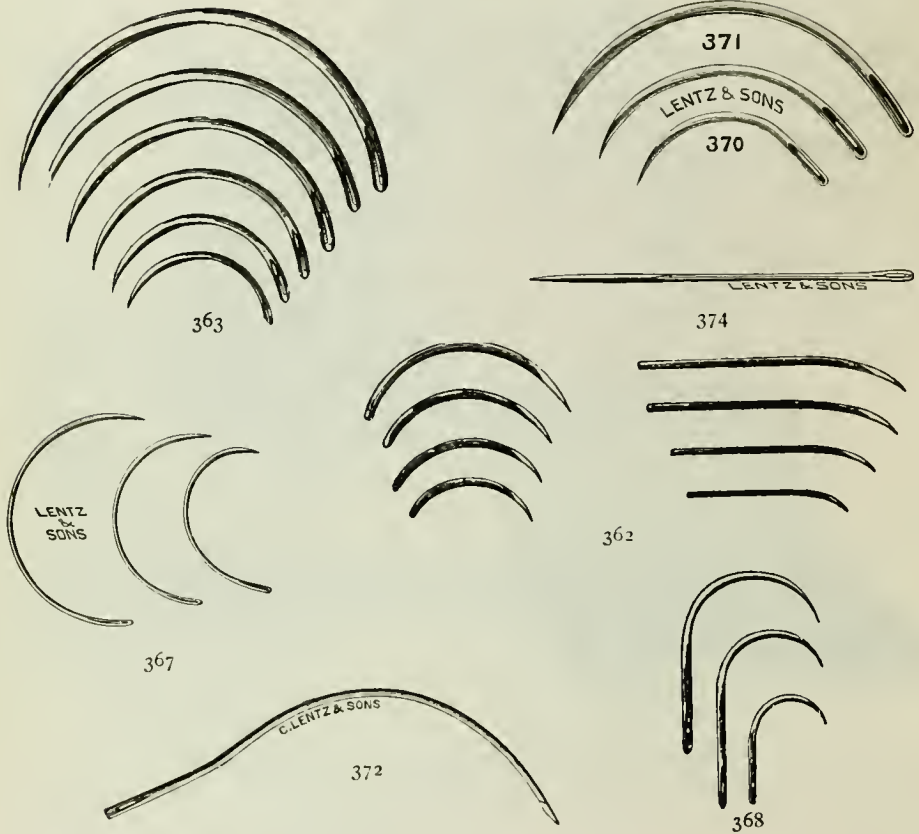
- 315.* Catgut, plain, in breakable tubes, "Lee's" . . . per dozen tubes \$3 00
- 315a. " chromicized, in breakable tubes, "Lee's" . . . " " " 3 00
- 315b. Silk, white, twisted, " " " " . . . " " " 3 00
- 315c. Horsehair, " " " " . . . " " " 3 00
- 315d. Silk Worm Gut, " " " " . . . " " " 3 00
- 320. Kangaroo Tendons, " " " " . . . " " " 3 00
- 326. Catgut, plain and chromicized, in tubes, "Van Horn's" . . . " " " 2 50
- 326a. Kangaroo Tendons, " " " " . . . " " " 2 50

Special price in gross lots.

*All instruments illustrated are designated by a *.*

General Surgical Necessities.

SUTURE NEEDLES.

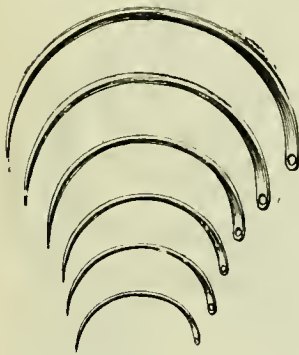


362.*	Needles, Emmet's, trocar point, stout, half and full curved, $\frac{7}{8}$ to 2 in. . .	per doz. \$0 60
363.*	" Martin's, triangular point, stout, full curved, 6 sizes . . .	" 75
364a.	" Emmet's, round point, stout, half and full curved, $\frac{3}{4}$ to $1\frac{1}{2}$ in. . .	" 60
364b.	" Hank's, double edge, stout, slight curve, $\frac{7}{8}$ to $1\frac{1}{4}$ inch . . .	" 85
364c.	" Sims', concave point, straight and slight curved, $\frac{7}{8}$ to $1\frac{1}{2}$ in. . .	" 75
364e.	" Skene's, trocar point, straight, $\frac{7}{8}$ to $1\frac{1}{4}$ inch . . .	" 75
367.*	" Kelly's, triangular edge, sickle shape, 3 sizes . . .	" 75
368.*	" Fistula, " " hook " 3 " . . .	" 75
369.	" Penrose's, trocar point, " " stout, 1 size . . .	" 1 00
370.*	" Hirst's, lance point, slight curved, 2 sizes . . .	" 1 00
371.*	" " large, stout, trocar point, full curved, 1 size . . .	" 1 00
372.*	" Goodell's perineal, round, with spear point . . . each, 20c. . .	" 1 50
374.*	" Price's abdominal, " " triangular point, $2\frac{1}{2}$ and $2\frac{3}{4}$ in. . .	" 1 00
375.	" Keith's abdominal, " slender, triangular point, $2\frac{3}{4}$ and 3 in. . .	" 75

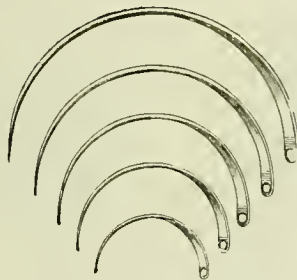
NOTE.—For other needles see Gynecological Instruments.

*All instruments illustrated are designated by a **

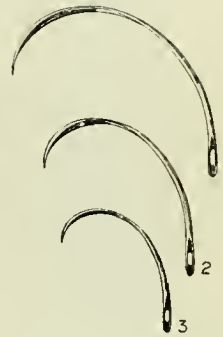
General Surgical Necessities.
SUTURE NEEDLES.



344



344a



345



345a

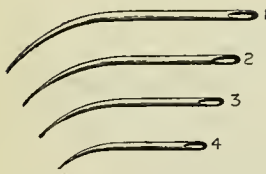
349



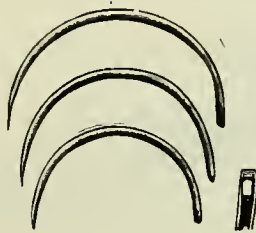
348



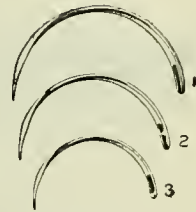
348a



364



349a



347

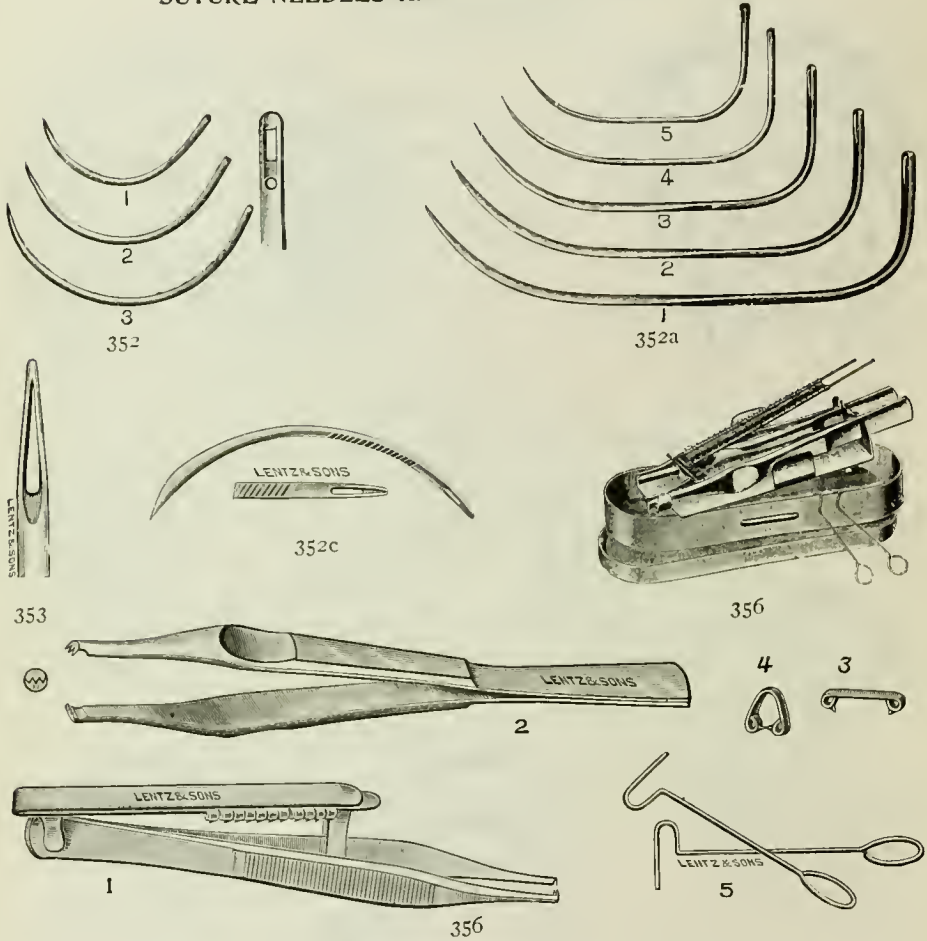
344.*	Needles, Ferguson's, cutting edge, round eye	5 sizes, per doz.	\$0 75
344a.*	" " taper point, " "	5 " " "	75
345.*	" Kelly's, oblique curve, Lister eye	3 " " "	75
345a.*	" " intestinal	3 " " "	75
349.*	" Mayo's, "	3 " " "	75
349a.*	" " taper point, square eye, full curved,	3 " " "	85
347.*	" Murphy's, trachelorrhaphy, cutting edge .	3 " " "	85
364.*	" Emmet's, taper point, stout, half curved .	4 " " "	60
364a.	" " " " " full " .	4 " " "	60
351.	" Packard's, knife " " " " .	3 " " "	85
348.*	" for ophthalmic work, half curved . . .	4 " " "	60
348a.*	" " " " full "	4 " " "	60

Our needles are all of superior quality and finish, procured from the best English maker; they are excellently tempered and have large eyes.

*All instruments illustrated are designated by a *.*

General Surgical Necessities.

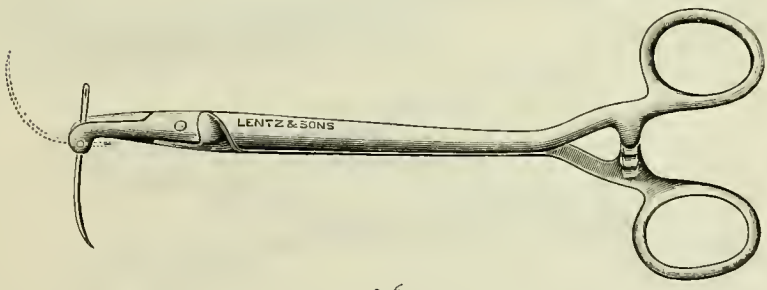
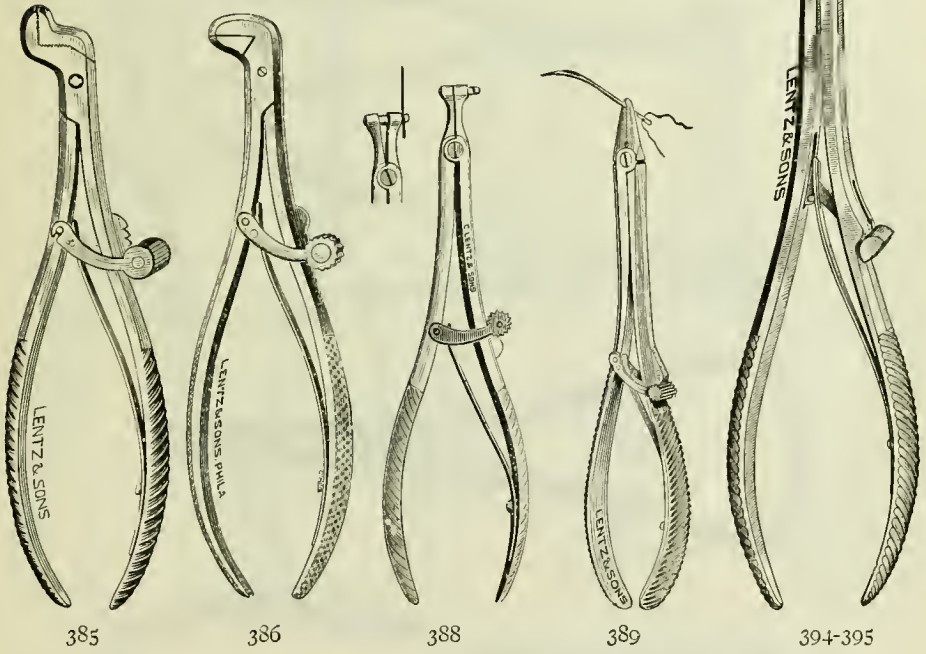
SUTURE NEEDLES AND SUTURE INSTRUMENTS.



- 352.* Needles, Harris', taper point, two eyes; for use with wire sutures, but may also be used with catgut or other ligatures 3 sizes, per doz. \$ 80
- 352a.* " Loopuyt's, taper point, can be conveniently and firmly held in the fingers 5 " " " 2 00
- 352b. " Geo. E. Shoemaker's, light, taper point, half curved and full curved 6 " " " 50
- 352c.* " Doyen's, knife point, curved; three sizes, 2, 3, 3 $\frac{3}{4}$ -inch . each 40
- 352d. " Kousinzeff's (for suturing the liver or kidney), blunt point, straight and full curved, 2 to 3-inch " 75
- 353.* " any pattern made with Howell's eye . . . per doz. \$2 50 to 3 00
The eye is a long V shape, most suitable with catgut, as it can be securely held; may also be used with other ligatures.
- 356.* Suture Set, Michel's, in metal case; consisting of:
fig. 1, rat-toothed tissue forceps, to which is attached holder with 25 wound clamps;
fig. 2, rat-toothed tissue forceps with grooved tips, to hold the wound clamps fig. 3, also to press them into the tissue and to compress them into shape fig. 4, by which means the wound is held together securely;
fig. 5, two wire hooks for removing the clamps Price, complete 3 50
- 356a.* Wound Clamps, Michel's, fig. 3 per 100 1 50
- 356b. Clamp Forceps, Michel-Seubert's. 2 25

General Operating Instruments.

NEEDLE HOLDERS.

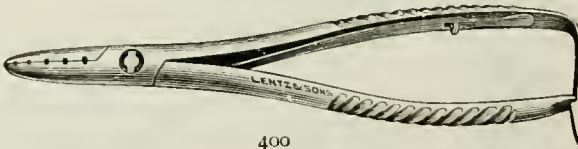


385.*	Needle Holder, Lentz's Universal, for flat or round needles	\$3 85
386.*	" Fowler's Improved, for Hagedorn's flat needles	3 75
388.*	" Fritsch's Universal, needle is held in a hook which can be turned in any direction	3 50
389.*	" Reiner's Automatic, 6 inches long, \$2.60; 7 inches, \$2.85; 8 inches . . .	3 00
391.	" Franklin's, self-locking, 7 inches long . . .	3 00
393.	" Russian, with catch, 7½ inches long	3 50
394.*	" Noble's Improved Reiner's, self-locking, 8 inches long	3 00
395.*	" " " " " 10 " "	4 50
396.*	" Doyen's, 7 inches long	3 00

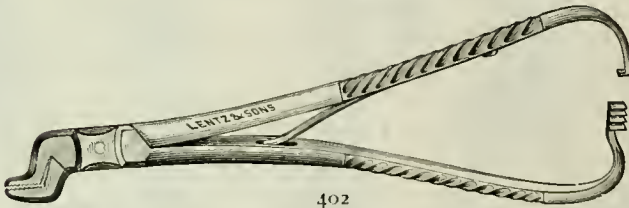
*All instruments illustrated are designated by a *.*

General Operating Instruments.

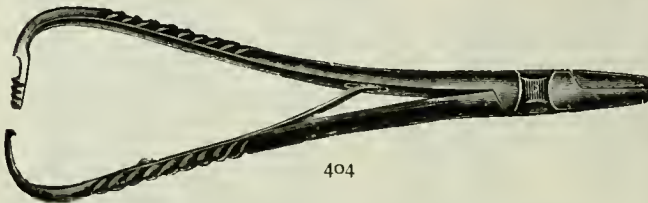
NEEDLE HOLDERS.



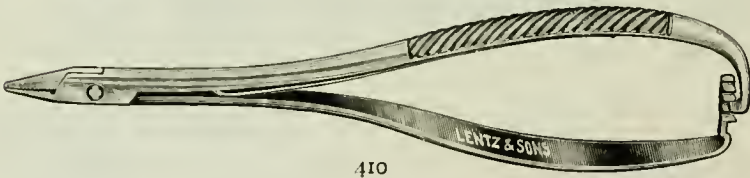
400



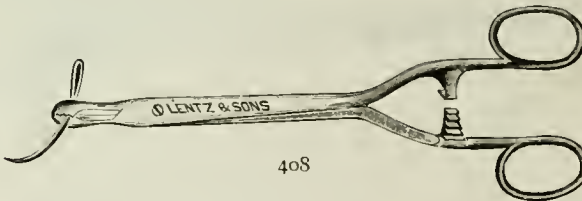
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404



410



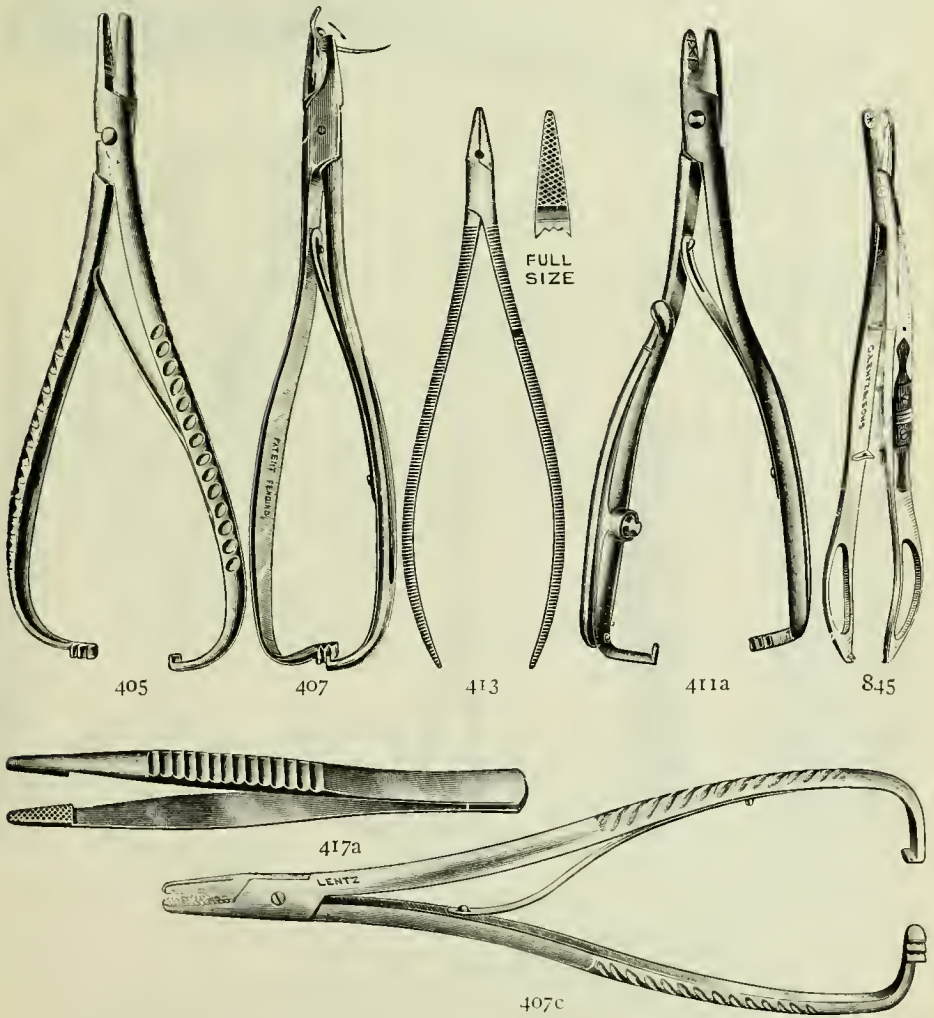
408

400.*	Needle Holder, Keen's, 6 inches long	\$ 2 25
401.	" McBurney's latest, with ligature cutter, 7 $\frac{3}{4}$ inches	3 50
402.*	" Van Lennep's, box joint, for flat or round needles	4 00
403.	" Macdonald's "	4 50
404.*	" Mathieu's "	1 75
406.	" Fowler's original, ring handles	2 00
408.*	" Sims' latest, "	2 00
409.	" Baldy's, same as Noble's, without catch, 8 inches	2 60
410.*	" B. C. Hirst's	3 25
412.	" Weber's improved Hagedorn's, 7 inches	4 50

*All instruments illustrated are designated by a *.*

General Operating Instruments.

NEEDLE HOLDERS.

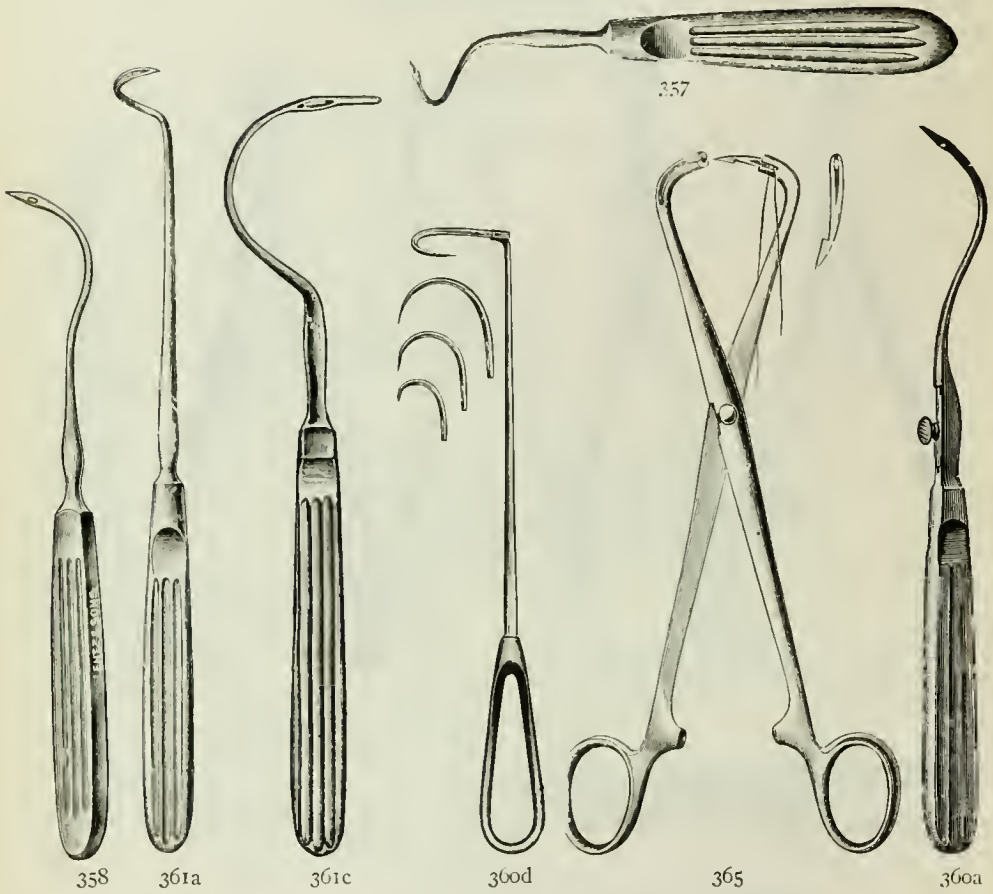


405.*	Needle Holder, Mathieu's, mod. by Kersten, 5½ inches	\$1 75
405a.	“ “ “ “ “ “ 7 “	2 00
405b.	“ “ “ “ “ “ 8 “	2 50
407.*	“ “ Richter's, holds any style of needle, 5½ inches	3 00
407a.*	“ “ “ “ 7 inches	3 50
407b.*	“ “ “ “ 8 “	3 50
407c.*	“ “ Tyson's, fenestrated upper jaw, 8 inches	4 25
407d.*	“ “ “ “ “ “ 10 “	4 75
411.	“ “ Mayo-Richter's, 8 inches	5 00
411a.*	“ “ Lentz's, with releasing lever, 7½ inches	3 25
413.*	“ “ Crile's, fine points, 6½ inches	2 50
420.	“ “ Abbey's, ring handles, for pocket case, 4¾ inches	1 00
845.*	“ “ and Artery Forceps combined, slide catch, 4½ inches	1 50
417.	“ “ Emmet's, without catch	2 50
417a.*	Needle Extractor, pattern of St. Mary's Hospital of Rochester, Minn.	1 00

*All instruments illustrated are designated by a *.*

General Operating Instruments.

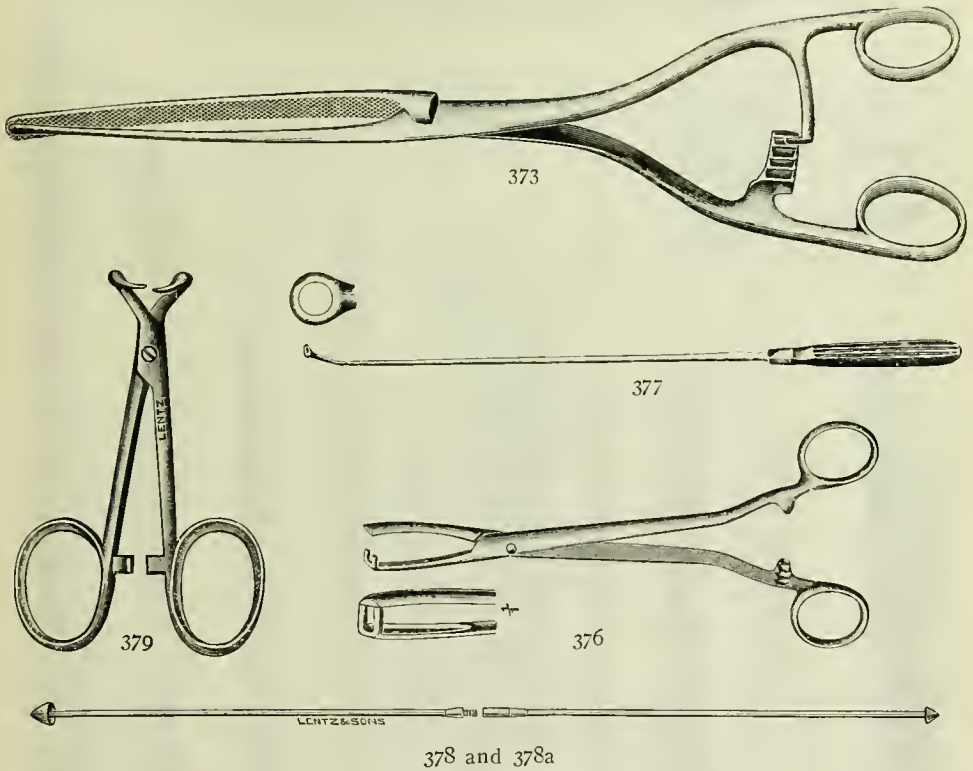
SUTURE AND ARTERIAL NEEDLES.



357.*	Needle, Carsten's, cervix, short, right and left	each	\$1 25
357a.	" " perineum, long		1 50
358.*	" Melvin M. Franklin's, full curved, sharp point		1 75
359.	" Doyen's, full curved, knife point (see Gynecological Section)		1 75
359a.	" B. C. Hirst's, perineum, full curved at right angle, knife point (see Gynecological)		1 75
360.	" Reverdin's, full curved, extra large		3 25
360a.*	" " regular, with closing eye, four different curves	each	2 50
360b.	" " " automatic closing eye, four different curves "		2 75
360c.	" Lamblin's, automatic closing eye	\$2.50; large	3 00
360d.*	" Jack's, set of three needles in one handle, for gall bladder		4 00
361.	" Aneurism, Carsten's, spiral curve, blunt point, similar to No. 357		1 25
361a.*	" " Deschamps', curved to right, sharp or blunt point	each	1 25
361b.	" " " " left, " " " "		1 25
361c.*	" " Langenbeck's, large curve, " " " "		1 25
365.*	" Forceps, Kurz's, straight, with three needles		3 00
365a.	" " " curved sideways, with three needles.		4 00
365b.	Needles, extra, for Kurz's Forceps	each	20

*All instruments illustrated are designated by a *.*

General Operating Instruments.



- 373.* Femoral Artery Clamp, Linn Thomas' (tourniquet forceps) \$5 50
- 376.* Vein Dissecting Forceps, Mayo's, for separating varicose veins from the surrounding tissue preparatory to removing them under the skin 2 50
- 377.* " Dissector, Mayo's, ring-shaped, used for the same operation as the forceps 1 50
- 378.* " Extractor, W. W. Babcock's, acorn shaped tips sizes 16 and 24 French, 26 inches long 75
- 378a.* " Extractor, W. W. Babcock's, acorn shaped tips sizes 16 and 24 French, 26 inches long, jointed 1 00
- 379.* Tenaculum Forceps, Backhaus', to fasten cloths around parts to be operated on per dozen, \$9 00; each 85

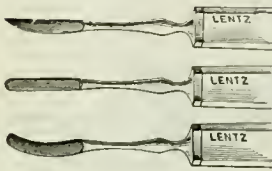
"It is absolutely necessary that cloths are fastened around the part to be operated on, to carry through the aseptis as thoroughly as possible. This can only be done properly by fixing the cloths on the skin in order to prevent displacing during the operation. The method employed heretofore of sewing directly to the skin, or of fastening the cloths to the skin with a clamp forceps will be superceded by the new forceps. The former forceps method caused a very disagreeable contusion. In employing the other method it was necessary to make several stitches and it had the disadvantage that during the operation the cloths could not be quickly removed to change the field, as is necessary very often in laparatomy operations. In this respect these new forceps fulfill their purpose completely. Although this instrument cannot be used without causing any traumatism to the tissues, the principal advantage is that it can be applied and removed very easily and quickly."

- 380. Appendix Apron, S. J. Waterworth's; rubber dam, 6 in. square, with re-inforced hole in center per doz., \$3 00; each 35

*All instruments illustrated are designated by a **

Amputating and General Operating Instruments.

KNIVES FOR MAJOR AND MINOR OPERATIONS.



449



441



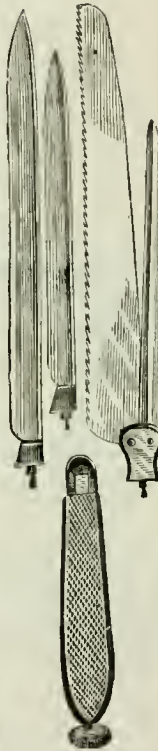
442



443



447



438



435



432



434



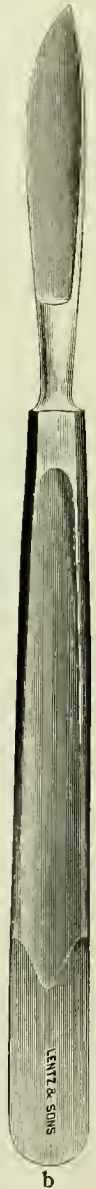
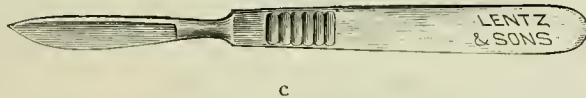
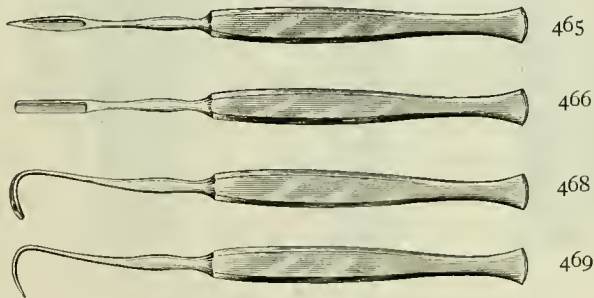
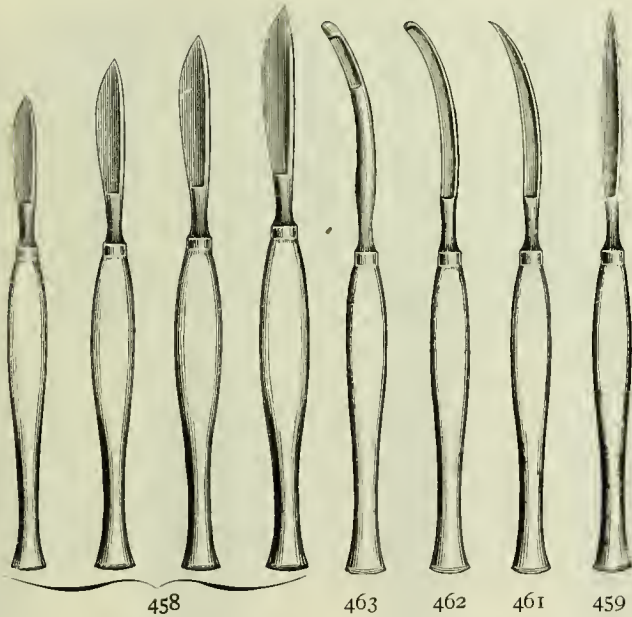
430

All our knives are hand forged from the most celebrated cast steel, and carefully tempered, and have hollow German silver handles, nickel plated.

430.*	Amputating Knife, Liston's, long	\$3 25
431.	" " " medium	2 75
432.*	" " " small	2 25
434.*	" " Catling, long	3 50
435.*	" " " medium	3 00
436.	" " " small	2 75
438.*	Knives and Saw, Conant's, aseptic handle	7 50
439.	Knife, Parker's, with handle to unscrew	4 50
441.*	Cartilage Knife, stout	2 00
442.*	Knife, Neil's, short stout blade	1 75
443.*	Scalpel	1 75
444.	Tenaculum	1 35
447.*	Transfixing Pins, Wyeth's, steel 10, 12 and 14 inches long each	1 00
449.*	Tenotomes, Allis' each, \$1.00; set of 3 in case	4 00

All instruments illustrated are designated by a *

Amputating and General Operating Instruments.
KNIVES FOR MAJOR AND MINOR OPERATIONS.

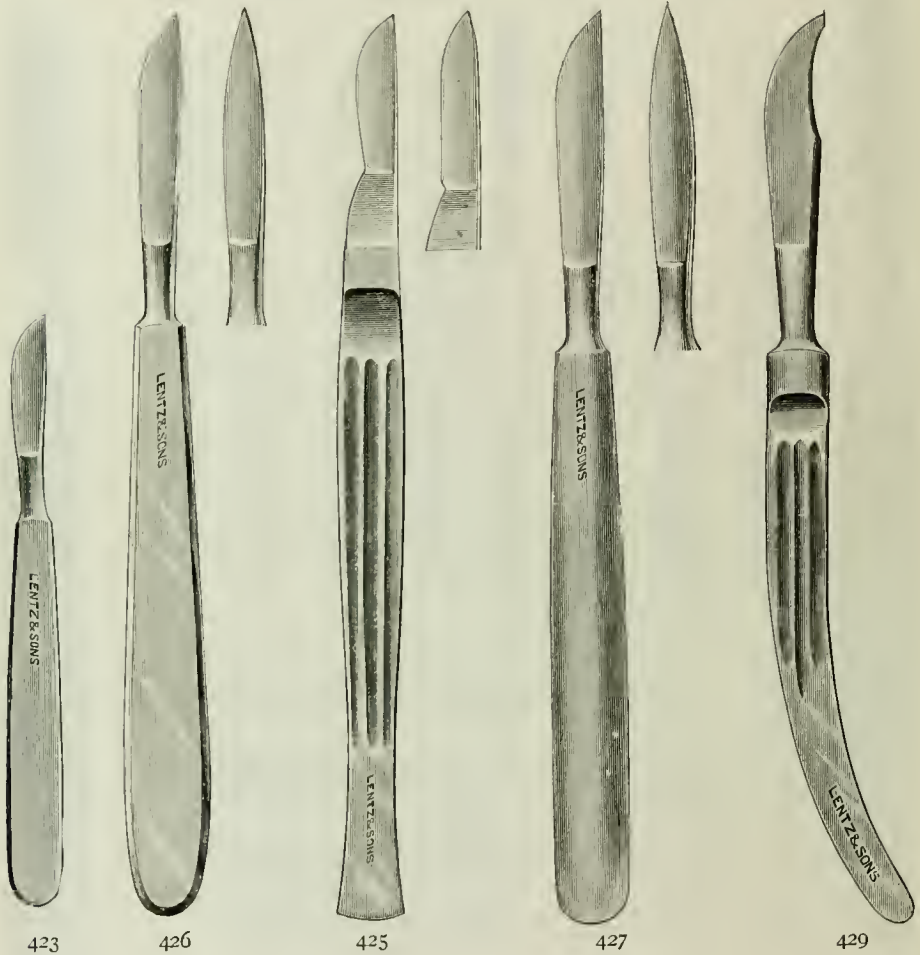


458.*	Minor Operating Scalpels, four sizes	In grooved hollow handles, like fig. a; each, \$1 35; per dozen \$13 50
459.*	“ “ Bistoury, straight, sharp pointed	
460.*	“ “ “ “ probe “	
461.*	“ “ “ curved, sharp “	
462.*	“ “ “ “ probe “	
463.*	Hernia Knife	In concave handles, like fig. b; each \$1 50; per dozen 15 00
465.*	Tenotome, straight, sharp pointed	
466.*	“ “ “ “ probe “	In plain handles, thin, all steel, like fig. c; each, \$1 00; per dozen 10 00
467.*	“ “ “ convex or concave, probe p'd	
468.*	Aneurism Needle	
469.*	Tenaculum	
470.*	Metacarpal Saw	

*All instruments illustrated are designated by a **

Amputating and General Operating Instruments.

KNIVES FOR MAJOR AND MINOR OPERATIONS.



Minor Operating Scalpels.

- 423.* Deaver's, thin handles, all steel, one size . . . each, \$1 10; dozen \$12 00
- 424. Gutsch's, concaved handles, all steel, four sizes . . . " 75; " 7 50
- 425.* Mayo's, grooved hollow handles, four sizes " 1 35; " 13 50
- 426.* Collin's, smooth " " " " 1 50; " 16 00
- 427.* Lentz's Special, smooth hollow handles, four sizes . . . " 1 50; " 16 00
- 428. Ferguson's, smooth hollow handles each 1 25
- 429.* Russell's, curved handles " 1 75
- 433. Peritoneal Incision Knives, Roswell Park's, three sizes,
1½, 2, 2½ inch blade, " 2 00

All our knives are hand-forged from the most celebrated English steel and carefully tempered in our factory under our supervision.

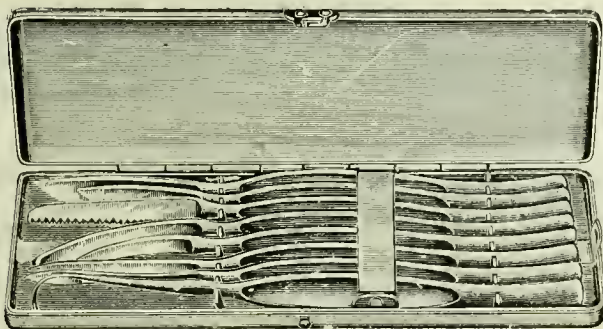
Operating Knives numbers 424 and 458 can be supplied in assorted blades, as per illustrations on page 27.

Scalpels made in four sizes are numbered, indicating size of cutting edge, viz.: No. 1, 1 inch; No. 2, 1¼ inch; No. 3, 1½ inch; No. 4, 1¾ inch blade.

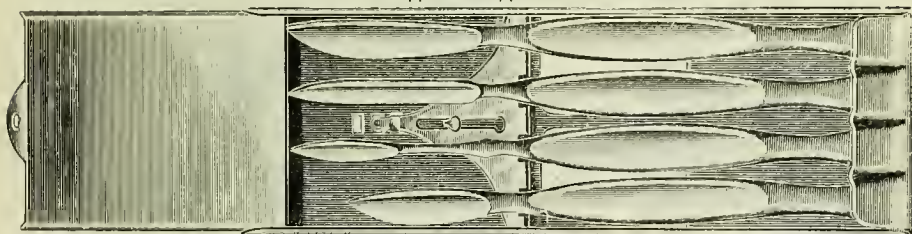
*All instruments illustrated are designated by a *.*

Amputating and General Operating Instruments.

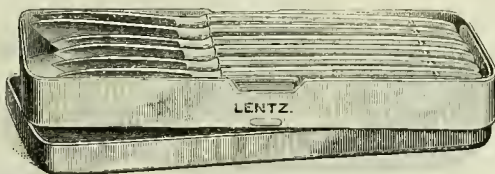
OPERATING KNIVES AND CASES.



440 and 448



476



472

Sets of Minor Operating Knives in Aseptic Metal Cases with Removable Racks.

440.*	Set of 6, Style A, hollow metal handles	\$9 25
445.	Set of 6, Style B, concaved steel handles	10 00
446.	Set of 6, Mayo's, grooved hollow handles	9 25
448.*	Set of 8, Style A, hollow metal handles	11 75
471.	Set of 12, Style A, hollow metal handles	16 50
472.*	Set of 6, Lentz's Special or Collin's pattern	11 75

Sets of Minor Operating Knives in Metal Cases with Fixed Racks.

473.	Set of 6, John B. Deaver's	\$8 50
474.	Set of 6, also one Amputating Knife and one Catling Knife, in metal hinged-lid case	16 50

475.	Minor Operating Knife Case, metal, hinged lid, empty, for 6 or 8 knives	\$2 50
475a.	" " " " " empty, for 6 Deaver's scalpels	2 50
476.*	" " " " " with sliding cover to protect blades.	

We furnish this case to hold 2, 4 or 6 knives; the racks are adjustable, will therefore fit almost any style of minor operating knives.

	Case for 2 knives, 50c.; for 4 knives, 60c.; for 6 knives	75
477.	Wood Case, with hinged lid, plain, for 6 knives	25
478.	" " " " " telescopic lid, plain, for 12 knives	60

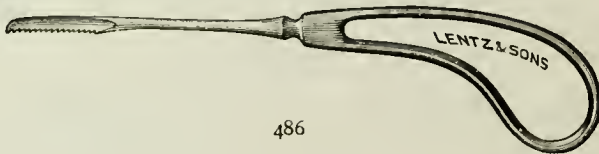
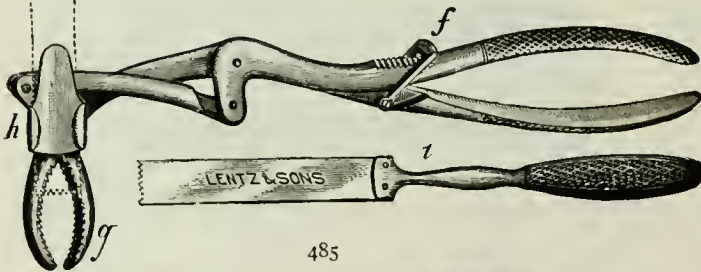
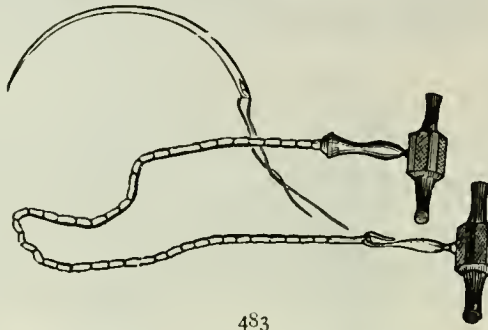
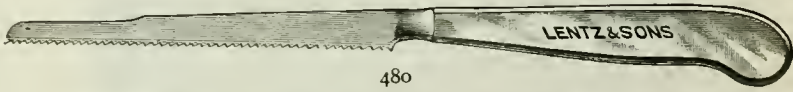
These cases are handy to store extra supply of knives, also to send knives to be ground.

479.	Aluminum Racks for holding knives in the instrument cabinet or in solution trays, to protect the edges; to hold 8 knives, 90c.; 12 knives, \$1 00; 15 knives	1 25
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*All instruments illustrated are designated by a *.*

Amputating and General Operating Instruments.

BONE SAWS.

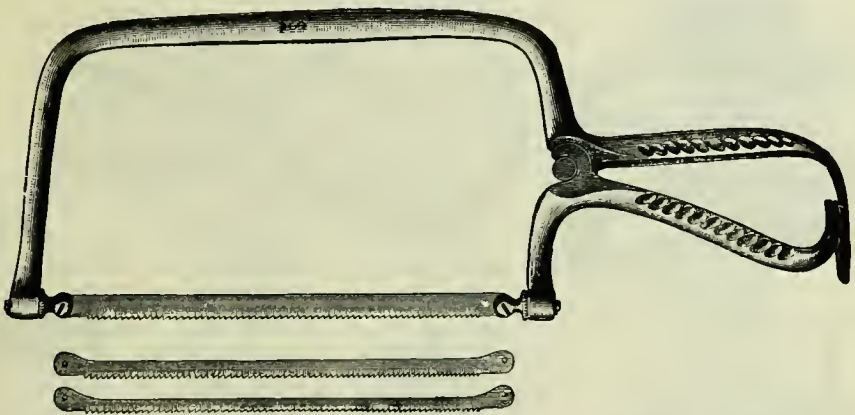


480.*	Saw, Metacarpal, Langenbeck's	.....	\$ 1 50
481.*	" " lifting back	.....	1 80
482.	" " Lewis' folding. The saw blade can be readily removed and the frame folded for carrying in pocket case	.....	1 50
483.*	" Exsection Chain, Jeffray's, with rotating metal handles	.....	6 00
484.	" " Wire, Gigli's (see Brain Instruments, page 57).	.....
485.*	" " Wyeth's aseptic	.....	13 50
486.*	" Subcutaneous, Adams'	.....	1 75
487.	" " large handle	.....	3 25
488.	" " Shrady's improved with trocar	.....	6 00
489.	" " Wyeth's, set of 3 in one handle	.....	6 00
490.	" Interosseous, Lente's	.....	1 15
491.	" " Dawbarn's	.....	3 50

All instruments illustrated are designated by a *.

Amputating and General Operating Instruments.

BONE SAWS.



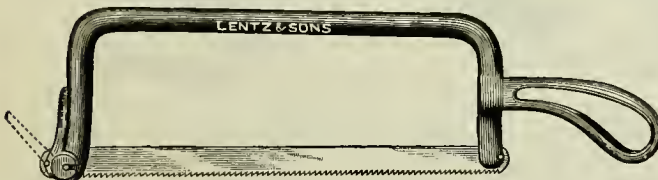
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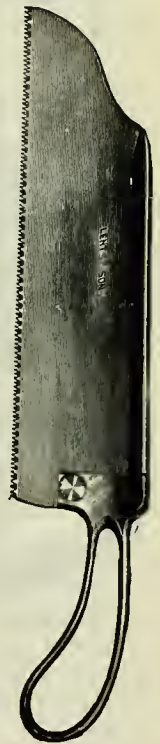
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503



502

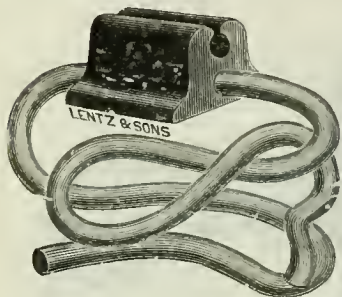


501

- 500.* Saw, Satterlee's, separable, blade 8½ inches long \$ 3 50
- 501.* " Lentz's, separable handle and back, blade 7½ inches long 3 00
- 502.* " Bow, small, with automatic lever, one blade 4 00
- 503.* " " large, " " " two blades, 14½ inches long 6 50
- 504.* " Resection, Collin's separable, three blades, 12 " " 9 00
- 505.* " Bow, Gutsch's, 9 inches long, one blade 5 00

*All instruments illustrated are designated by a *.*

Amputating and General Operating Instruments. TOURNIQUETS.



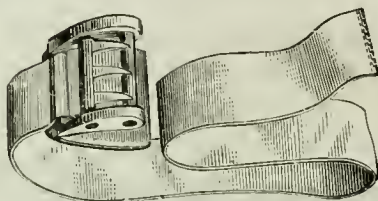
514



509



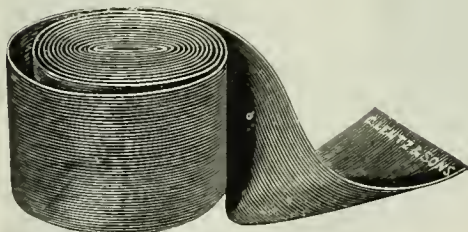
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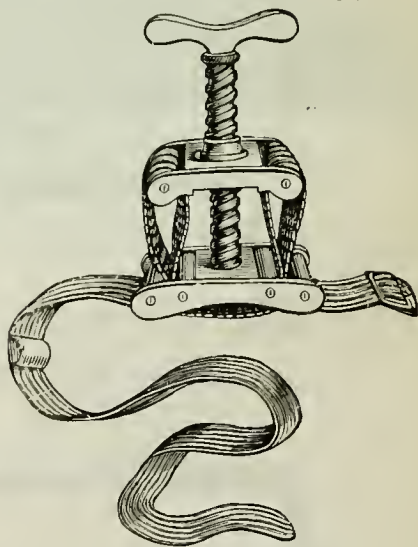
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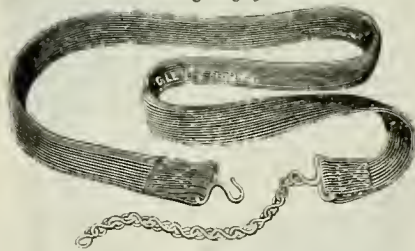
509



518-519



513



516-517

509.*	Tourniquet, Schapp's, 36 inches long, thick tubular rubber, with knob on either end	\$1 50
512.*	“ U. S. A. Field	1 10
513.*	“ Petit's	1 75
514.*	“ Esmarch's Hard Rubber Compress, with elastic cord	50
515.*	“ for wrist, steel nickel plated, with adjustable hard rubber pads	4 00
516.*	“ Esmarch's Flat Rubber, 1 in., 3½ ft. long, with chain and hook	1 50
517.*	“ “ “ 1¼ in., 4½ ft. “ “ “	2 35
518.*	Bandage, Esmarch's, Pure Gum, extra heavy, 2½ inches wide, 4 yards long	3 00
519.*	“ “ “ “ 2½ “ 5 “ “	3 75
521.	“ “ “ “ medium weight, 2½ inches wide, 4 yards long	2 00

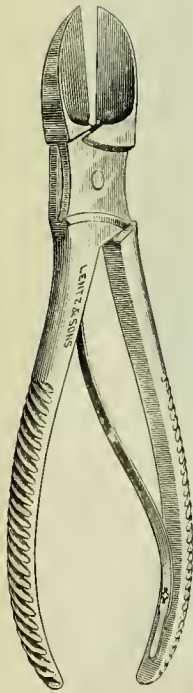
All instruments illustrated are designated by a *

Amputating and General Operating Instruments.

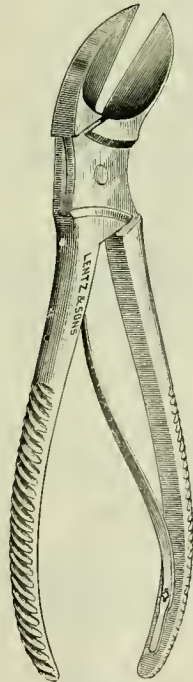
BONE CUTTING FORCEPS.



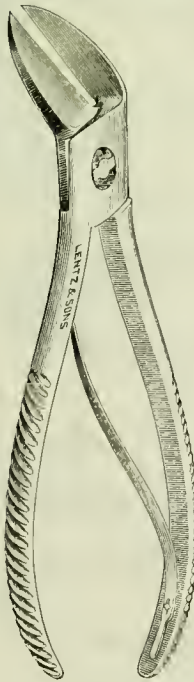
535



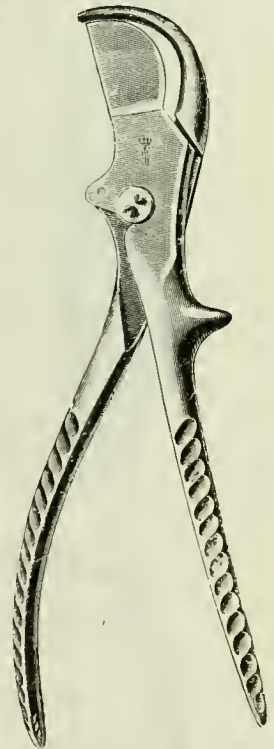
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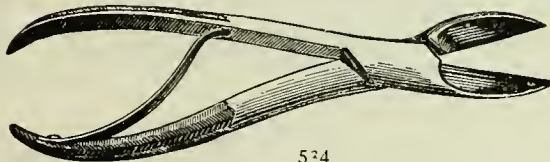
532



533



537



534

531.*	Bone Cutting Forceps, straight, aseptic. 7½ in., \$2 75; 8½ in. .	\$3 00
532.*	" " " curved on flat, aseptic	3 00
533.*	" " " angular, aseptic	3 00
534.*	" " " straight, small, double joint, plain	2 25
535.*	" " " Satterlee's aseptic	3 00
525.	" " " Velpeau's, maxillary	4 00
526.	" " " Liston's, straight, with spring, 11 in.	6 00
527.	" " " " curved on flat, with spring, 11 in.	6 00
528.	" " " Mayo's, angular, with spring, 11 in.	8 00
529.	" " " J. C. Biddle's, cutting on side; one handle with hook; the straight handle is grooved across and may be used as a rasp; with spring, 7 in.	4 50

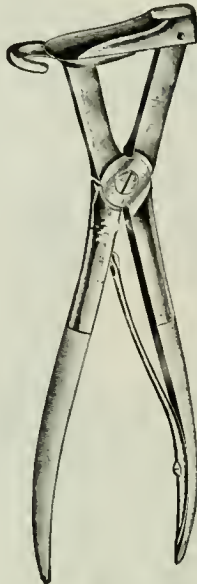
*All instruments illustrated are designated by a *.*

Amputating and General Operating Instruments.

BONE CUTTING FORCEPS, RIB SHEARS, SAWS.



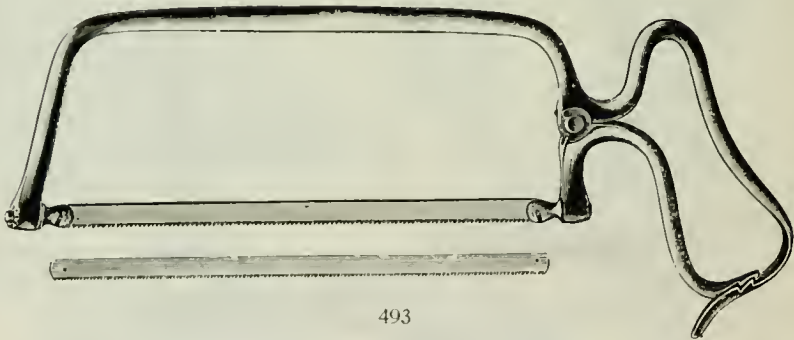
543 and 544



506



492



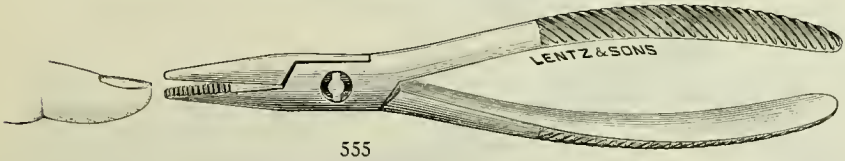
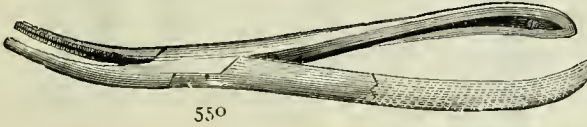
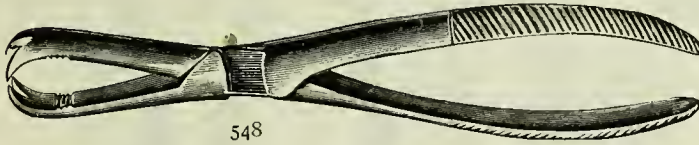
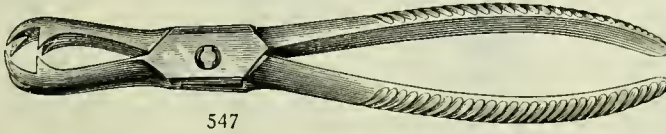
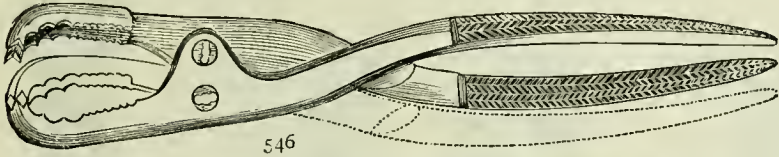
493

541.	Bone Cutting Forceps.	Horsley's,	curved on flat	.	\$3 75
542.	"	"	straight, fine strong prismatic points	.	4 00
543.*	"	"	crank bend, fine strong prismatic points	.	4 00
544.*	"	"	crank bend, fine, strong prismatic points large	.	5 50
537.*	Bone Shears,	Gluck's, large (illustration on page 33)	.	.	3 75
506.*	"	Shoemaker's; can also be used as a raspatory for the costal periosteum	.	.	12 00
507.	"	Charrière's, toothed edge	straight, \$3.75; curved	.	4 00
508.	"	Mathieu's,	"	\$4.50; "	5 00
492.*	Exsection Saw,	Doyen's, with guard and graduation, for skull work	.	.	6 00
493.*	Resection Saw.	Windler's, separable, two widths of blades, 12 inch	.	.	10 00
494.	"	Mathieu's.	three " " " 12 " "	.	9 00
495.	Bow Saw,	National Guard of Penna. pattern, one blade,	8 "	.	3 00

*All instruments illustrated are designated by a *.*

Amputating and General Operating Instruments.

BONE-HOLDING AND SEQUESTRUM FORCEPS.



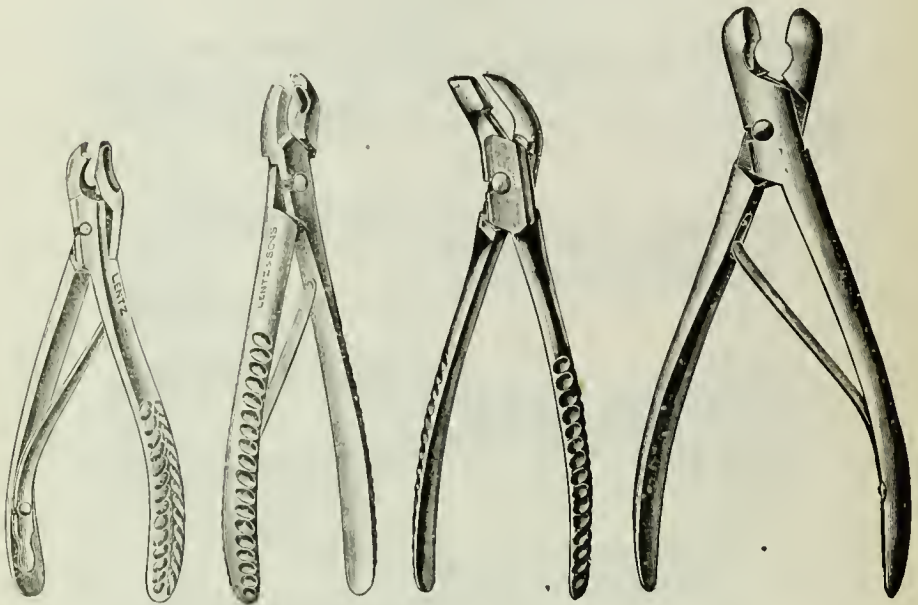
545.	Bone-Holding Forceps, Hamilton's	\$ 3 25
546.*	" " " Farabocuf's	4 00
547.*	" " " Ferguson's Lion Jaw	3 00
548.*	" " " Langenbeck's	3 00
549.	Sequestrum " Gross', straight, with spring	2 75
550.*	" " " " curved, "	2 75
551.	" " " " straight, no spring	2 40
552.	" " " " curved, "	2 40
553.*	" " " Van Buren's	2 50
554.	" " " Ferguson's	2 25
555.*	Nail-Extracting Forceps, Post's	2 25

All Forceps have aseptic joints and corrugated handles.

All instruments illustrated are designated by a *.

Amputating and General Operating Instruments.

BONE GOUGING OR RONGEUR FORCEPS.

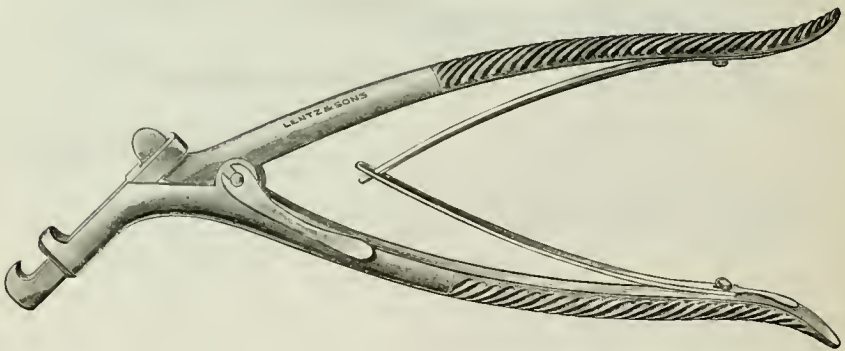


557

558

559

559d



556

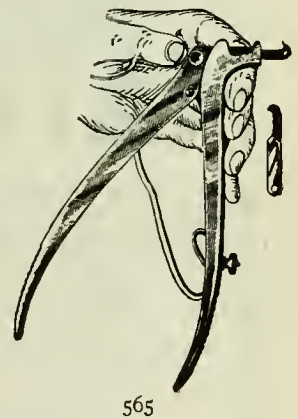
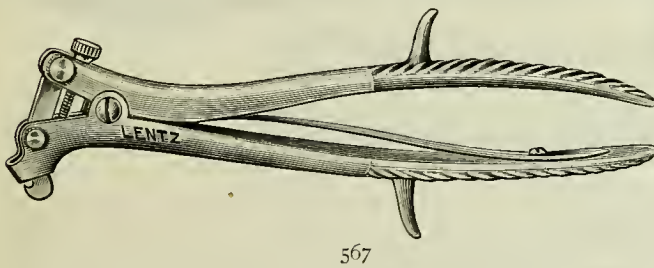
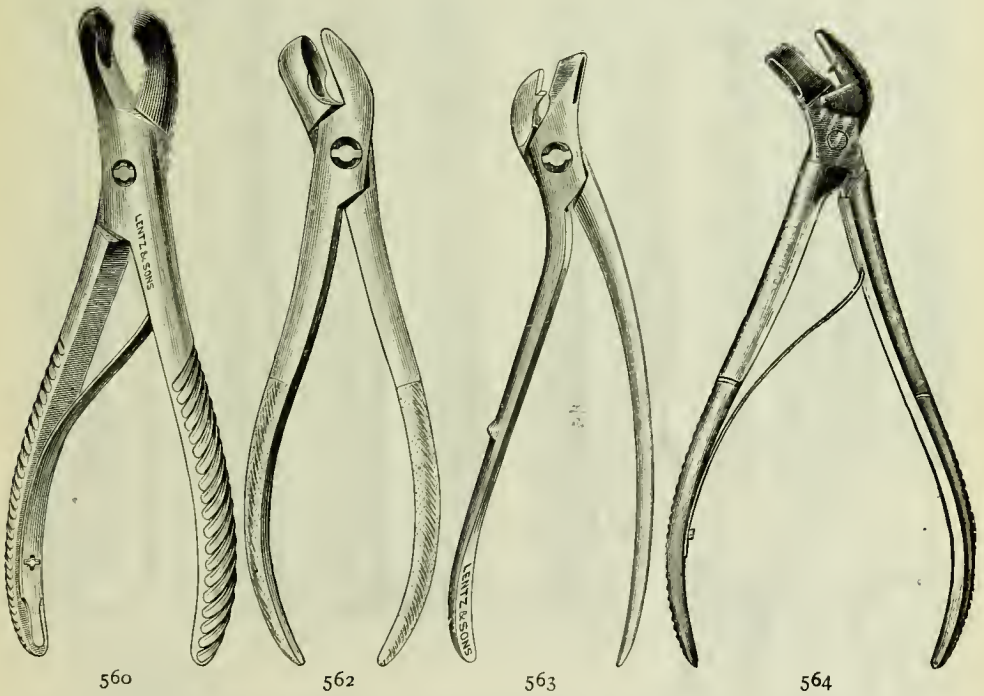
556.*	Rongeur or Gouging Forceps,	M. M. Franklin's, two sizes of jaws	each \$12 00
556a.	" " "	Allport's, mastoid, one size of jaw	10 00
557.*	" " "	Doyen's, cranial	4 00
558.*	" " "	Lannelongue's, cranial	4 50
559.*	" " "	Stille's,	4 00
559a.	" " "	Mathieu's,	5 00
559b.	" " "	Ceccherelli's, (Bernay's groover)	4 50
559c.	" " "	Hoffmann's, angular	3 75
559d.*	" " "	Whiting's	3 50

See also Mastoid Rongeurs.

*All instruments illustrated are designated by a **

Amputating and General Operating Instruments.

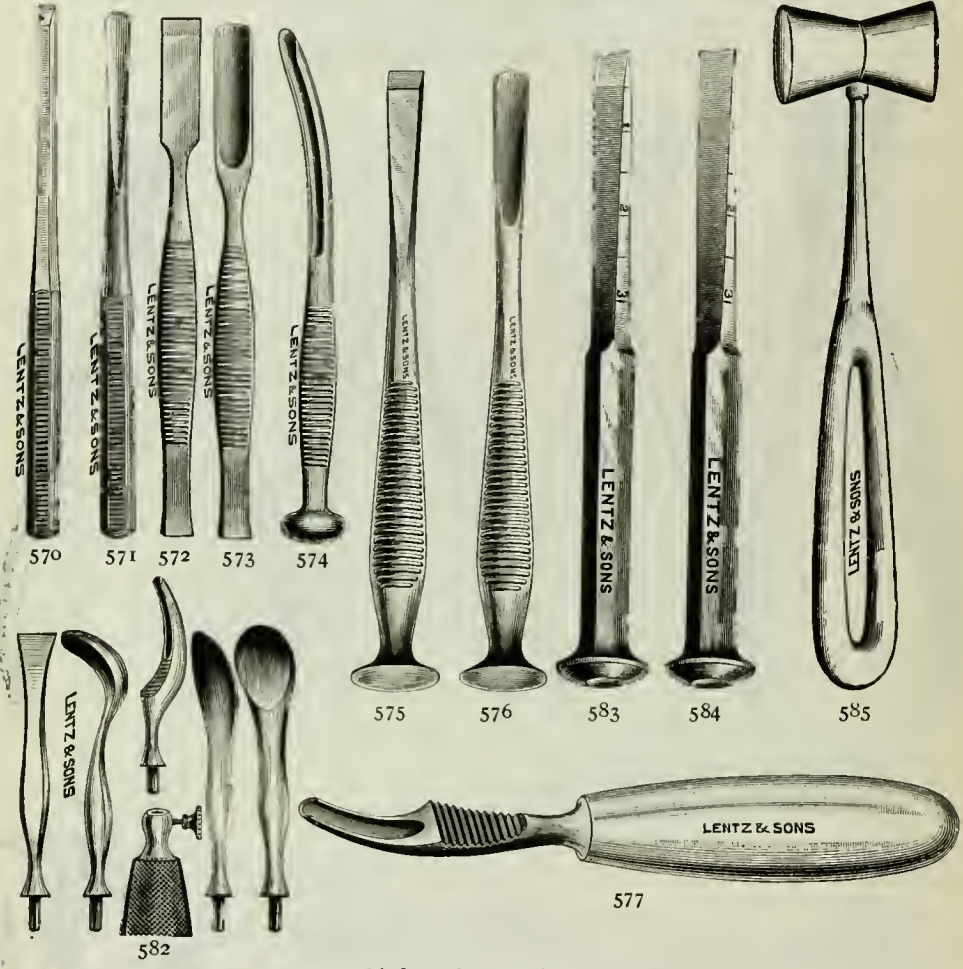
BONE GOUGING OR RONGEUR FORCEPS.



560.*	Rongeur or Gouging Forceps, Luer's, straight or curved, 7 inch . . .	\$3 00
561.	" " " Esmarch's, straight, stout, with wide jaws, 9 in.	5 00
562.*	" " " Hopkins', straight or curved to side . . .	3 50
563.*	" " " " linear cranectomy and laminectomy	3 75
564.*	" " " Keen's, for linear cranectomy and laminectomy	4 75
565.*	" " " De Vilbiss', two sizes of jaws	4 50
567.*	" " " Wm. H. Hudson's, with extra jaw blade . . .	20 00

All instruments illustrated are designated by a *

**Amputating and General Operating Instruments.
BONE CHISELS, GOUGES, MALLETS.**



We polish the nickel off the blades of our chisels, gouges and drills, as the plating would peel off after the instruments have been used a few times, and particles of the plating might be left in the wound, forming septic matter.

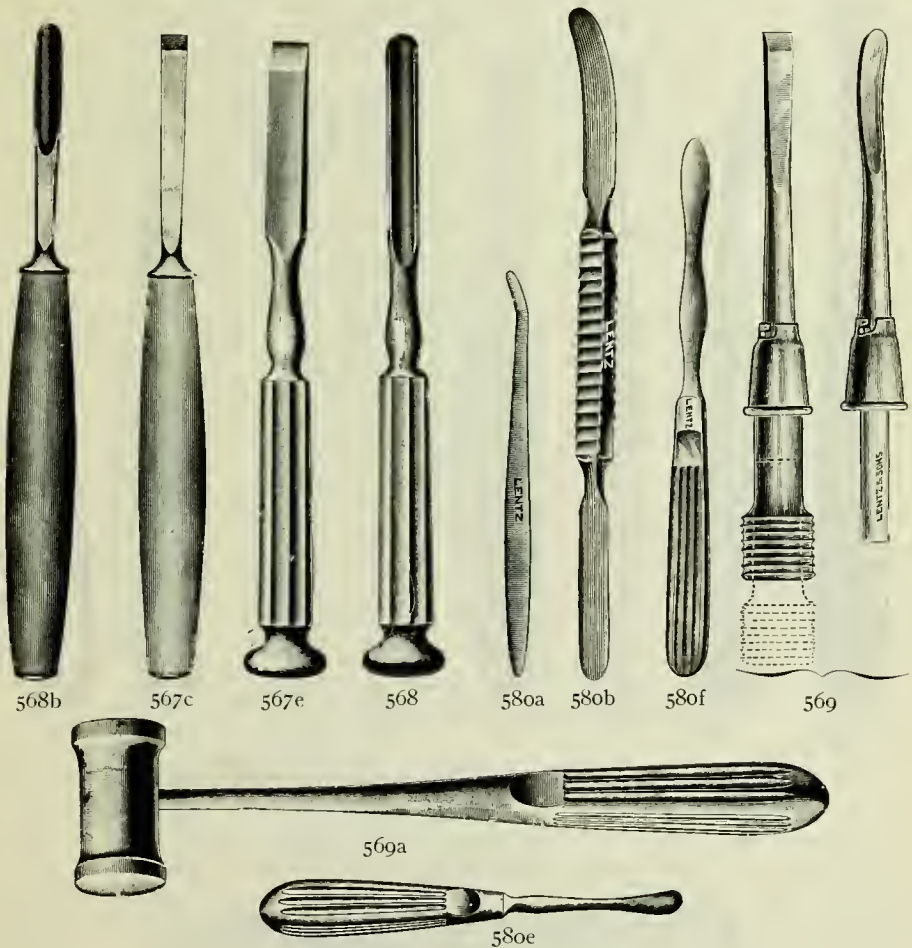
570.*	Bone	Chisel, small and narrow		\$0 60
571.*	"	Gouge, " " "		70
572.*	"	Chisel, medium or large		1 25
573.*	"	Gouge, " " "		1 40
574.*	"	" " " curved, for use with hand or mallet		1 90
575.*	"	Chisel, " " " " " "		1 75
576.*	"	Gouge, " " " " " "		1 90
577.*	"	" " Szymanowsky's		1 75
578.*	"	" " Macewen's		2 75
579.*	"	Chisel, Linhardt's		1 50
582.*	"	" " Gouges and Levator, Darby's set		5 00
583.*	"	" " Macewen's, 3 sizes	each	2 50
584.*	Osteotome,	Macewen's, 3 sizes		2 75
585.*	Mallet, lead filled, non-rebounding			1 50
586.	"	rawhide small, 75c.; large 1 00		
587.	"	hardwood, aseptic small, 75c.; medium, 85c.; large 1 00		
588.	Resection Knife, Langenbeck's, various forms		each	1 50
589.	Subcutaneous Knife, Adams'			1 25

*All instruments illustrated are designated by a *.*

Amputating and General Operating Instruments.

BONE CHISELS, GOUGES, MALLETS.

ELEVATORS



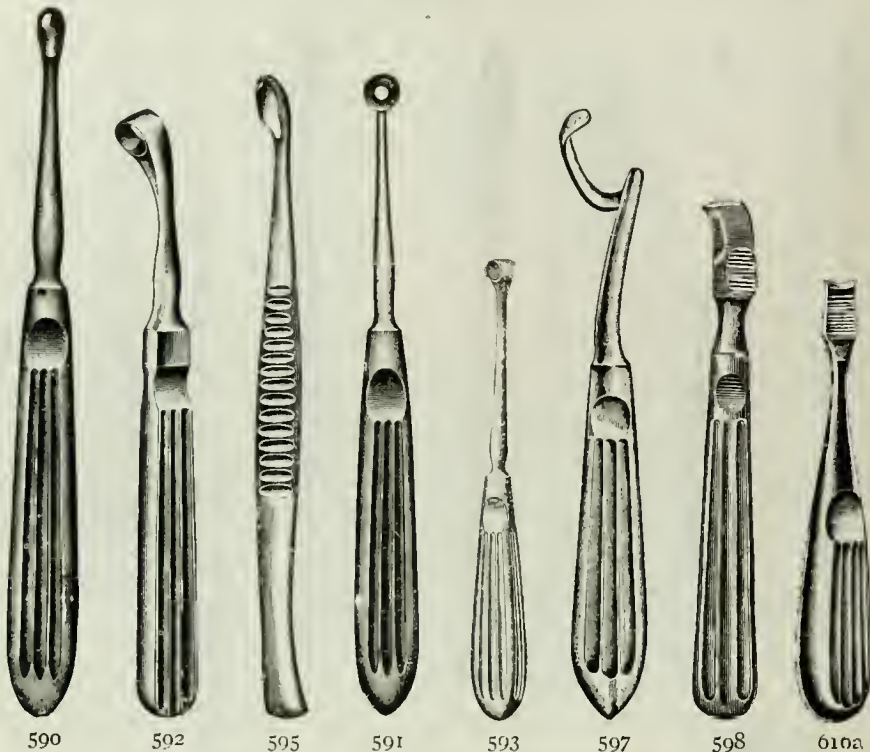
567.	Bone Chisel,	Doyen's, for enlarging the cranial section	\$2 50	
567a.	"	Chipault's, for cranial resection, three widths.	each 2 25	
567b.	"	Borchardt's, for cranial	1 75	
567c.*	"	Whiting's, mastoid, four sizes	each 2 00	
567d.	"	Gutsch's	1 00	
567e.*	"	Hajek's, mastoid, four sizes, 3, 6, 9, 12 mm. wide	each 2 10	
568.*	"	Gouge, " " 3, 6, 9, 12 mm. wide	2 25	
568a.	"	Borchardt's, for cranial	2 25	
568b.*	"	Whiting's, mastoid, four sizes	each 2 25	
568c.	"	Doyen's, for perforating the cranium	3 00	
568d.	"	Gutsch's	1 25	
569.*	Combination Set, Bone Chisel, Gouge and Mallet, Benson's		5 50	
569a.*	Mallet, lead filled, non-rebounding	medium, \$1 75; large	2 00	
569b.	"	boxwood, brass bound ends	medium, \$1 00; large	1 25
580.	Elevator, S. MacCuen Smith's Dry Dissector	.674-inch, 75c.; 774-inch	1 00	
580a.*	"	Crile's	75	
580b.*	"	Watson Cheyne's	1 00	
580c.	"	Adams' Double-end Dissector	1 25	
580d.	"	John C. DaCosta's	1 50	
580e.*	"	Mass. General Hospital pattern, with hollow handle	1 50	
580f.*	"	Langenbeck's, two widths	each 1 50	

*All instruments illustrated are designated by a *.*

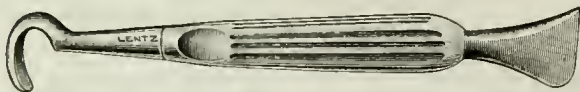
Amputating and General Operating Instruments.

BONE CURETTES.

RASPATORIES.



617a

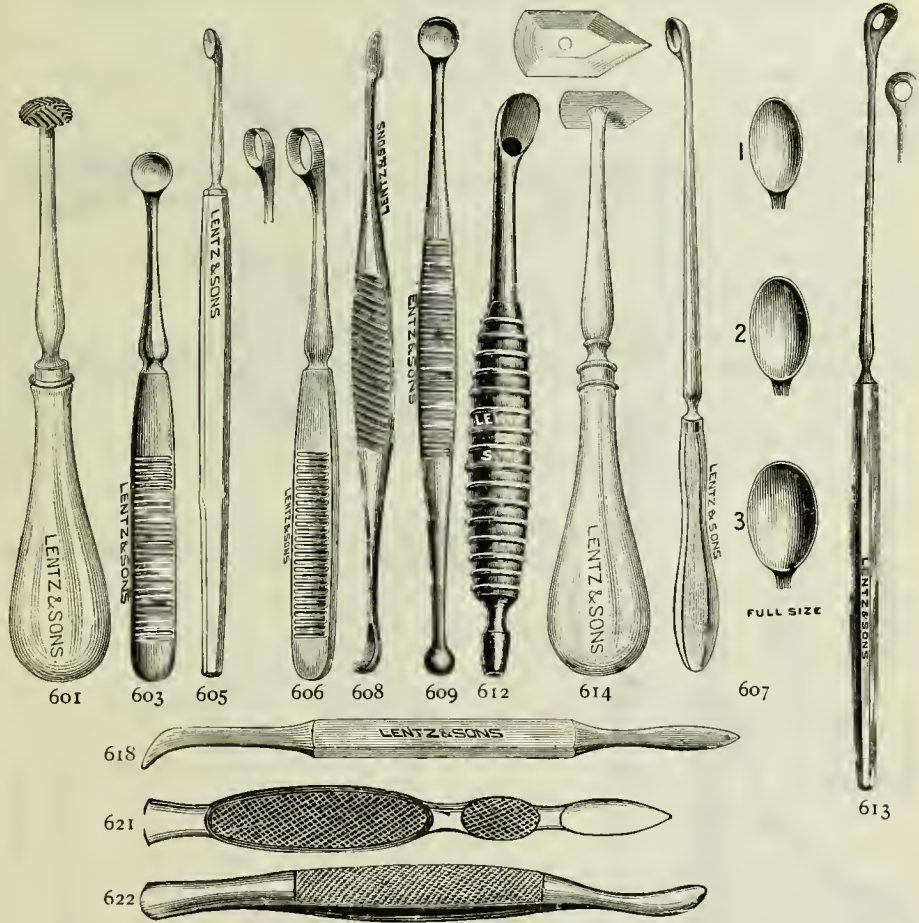


596

590.*	Bone Curette,	Whiting's, sharp, six sizes	each	\$1 75
591.*	"	Lüer's, sharp, fenestrated, three sizes	"	1 75
592.*	"	Farabeuf's, sharp, curved		2 00
593.*	"	ring, sharp on both ends		2 25
594.	"	Simon's Sinus Curette, double end		1 50
607a.	"	Volkmann's, oval, irrigating, four sizes	each	2 75
608a.	"	" double end, 5 inch, for pocket case		75
595.*	"	Ferguson's, combined with periosteotome		1 75
595a.	"	Double-ended, light, 4½ in., 75c.; 6 in., \$1 00; 8 in.		1 20
596.*	Raspatory	and Knife, W. W. Babcock's, for costal periosteum		4 00
597.*	"	Doyen's, for costal periosteum		2 25
597a.	"	angular or double curved	each	2 75
598.*	"	Farabeuf's, curved		1 60
599.	"	straight		1 60
615a.	"	Ollier's, round form		1 50
616a.*	"	Mathieu's, straight, concave or convex edge	each	1 60
617a.*	"	Langenbeck's, hook shaped		1 50

*All instruments illustrated are designated by a **

Amputating and General Operating Instruments.

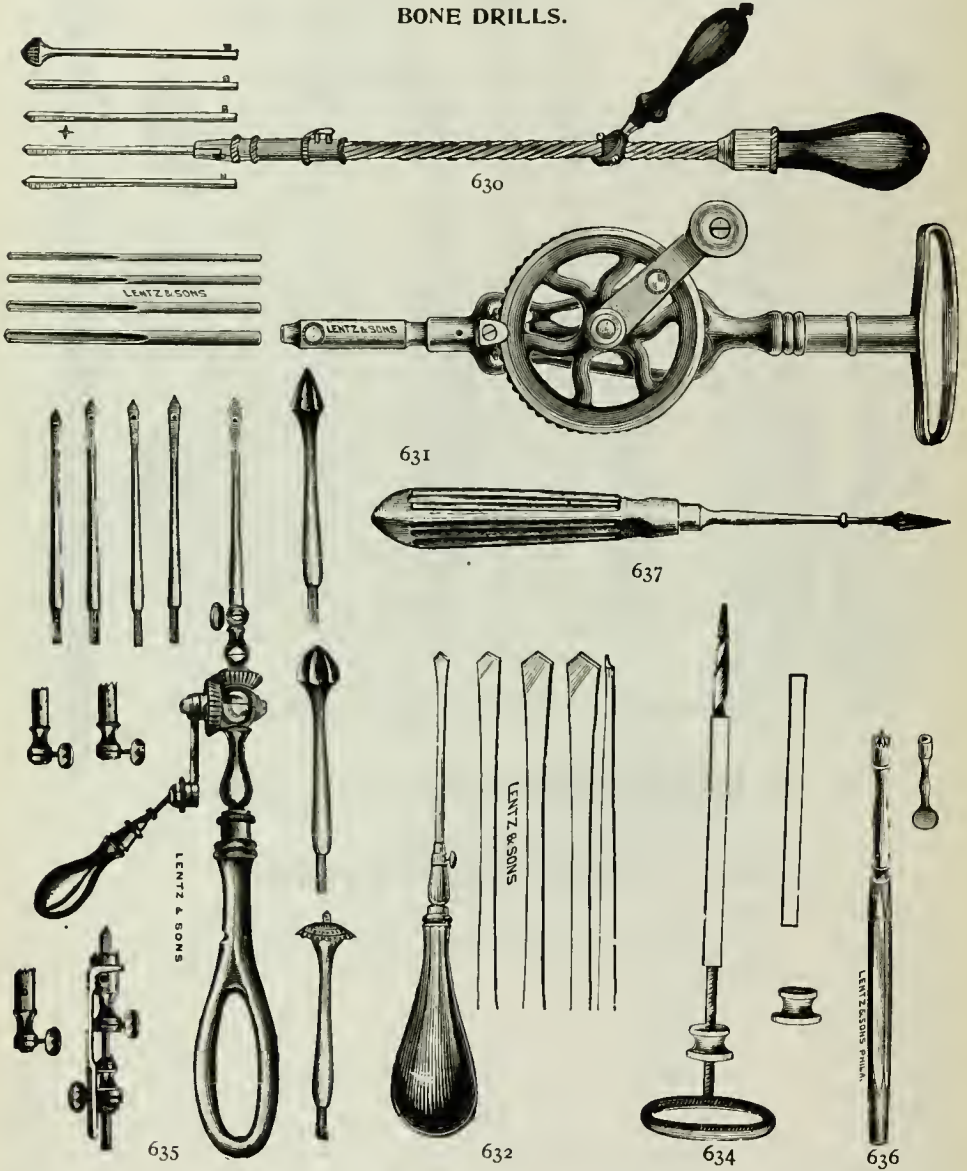


600.	Bone Burr, Marshall's olive head, hollow metal handle	\$1 75
601.*	" " " round " " " "	1 75
603.*	" Curette, Von Brun's, round scoop, 3 sizes	each 1 50
604.	" " Hebra's, 3 sizes	" 1 50
605.*	" " Schede's, oval scoop, 3 sizes	1 50
606.*	" " Trelat's, " " 2	" 1 75
607.*	" " Volkman's, " " 4	" 1 50
608.*	" " " double, oval scoop 6 inch,	\$1.60; 8 inch 1 75
609.*	" " " " round " 6 "	\$1.35; 8 inch 1 50
612.*	" " Barker-Willard's, irrigating	3 50
613.*	Sinus " Delatour's	1 25
614.*	Raspatory, knife edge	1 90
615.	" Ollier's, knife form	1 50
616.	" Mathieu's, concave or convex edge	each 1 60
617.	" Langenbeck's rectangular or hook form	" 1 50
618.*	Dry Dissector, Allis', steel, corrugated handle	small, 60c.; large 1 00
619.	Levator, Goodwillie's, slight or full curved	each 1 50
620.	" Van Arsdale's, set of 3	4 50
621.*	Periosteotome, Sand's, all steel	1 25
622.*	" Sayre's, "	1 25

All instruments illustrated are designated by a *.

Amputating and General Operating Instruments.

BONE DRILLS.

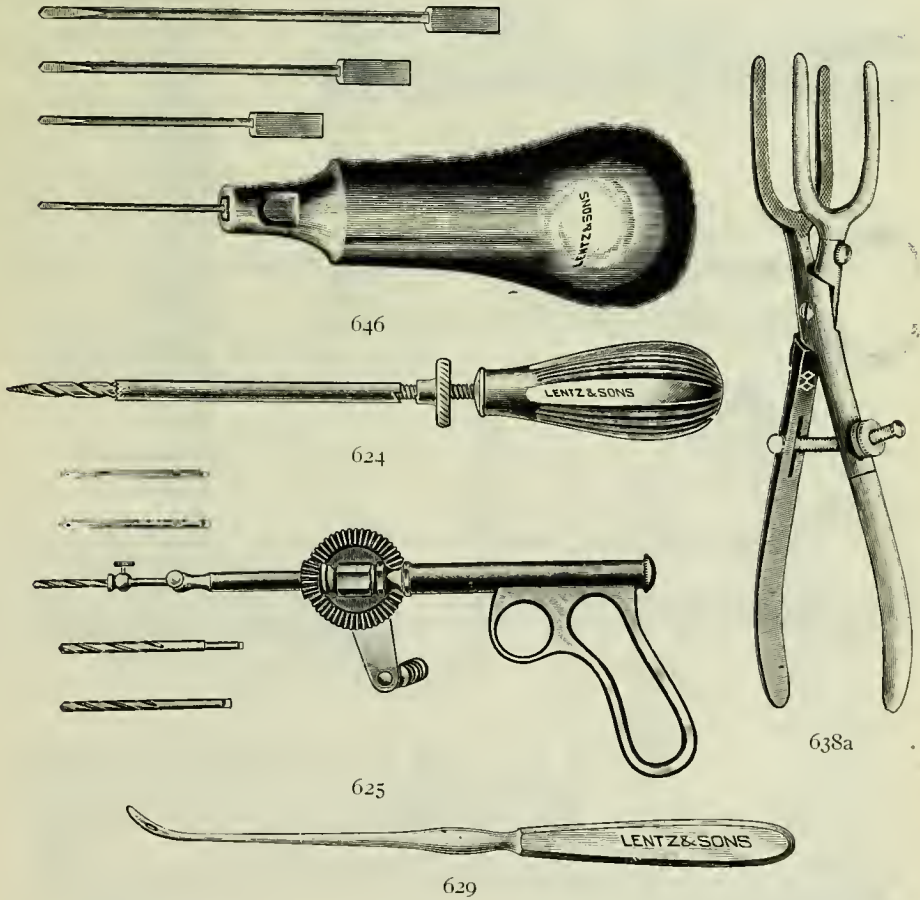


630.*	Bone Drills, Hamilton's set of 6 drills	\$ 3 50
631.*	" " Lentz's improved aseptic, with set of 8 drills	7 00
632.*	" " Brainard's set of three, metal handle	2 50
633.*	" " " " five, " "	3 00
634.*	Gaillard's, for un-united fractures	1 90
635.*	" " and Bone Trephines, Collin's, complete set in metal case	22 50
636.*	" " Pope's Antrum, centering pin removable	2 50
637.*	" " Hartmann's Antrum	1 50

All instruments illustrated are designated by a *.

Amputating and General Operating Instruments.

BONE DRILLS.

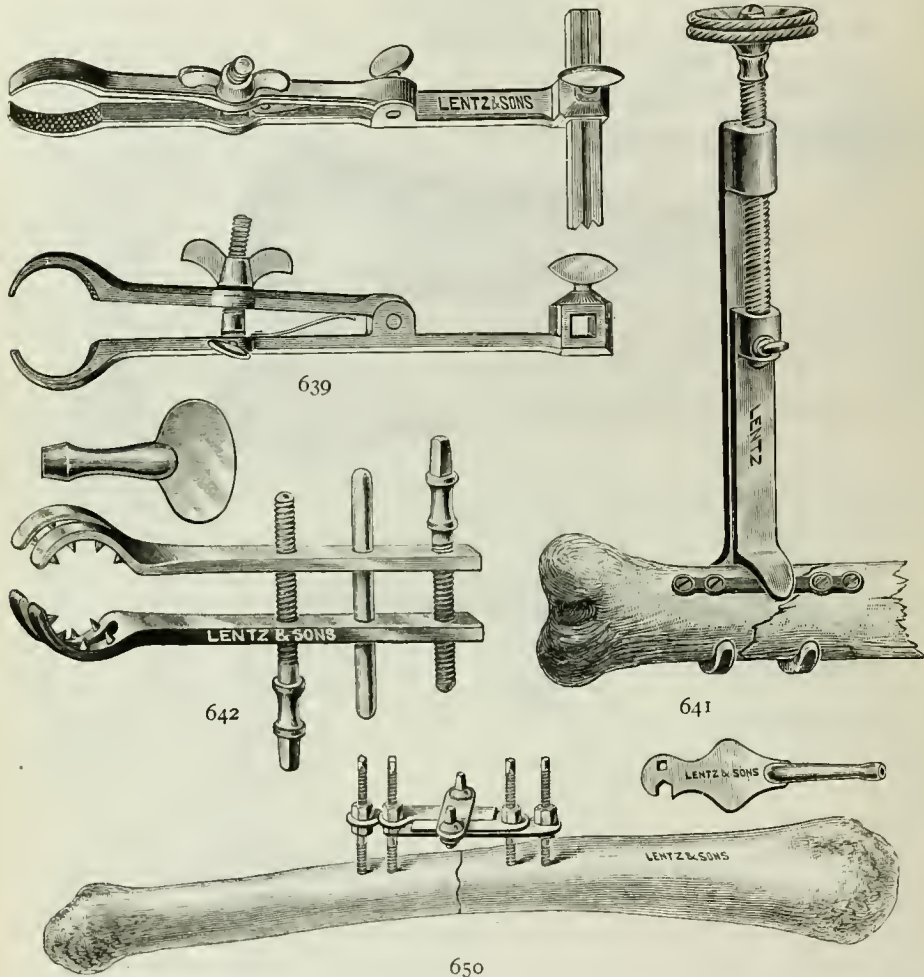


645.	Bone Drills, Wyeth's, set of six, with hollow metal handle . . .	\$3 50
646.*	" " J. B. Roberts', set of four, with large hollow metal handle	4 00
647.	" " " " " without handle each, 50c.; dozen	5 00
648.	" " Forceps and Hammer, for driving and extracting Roberts' drills	3 75
623.	" " large, 11½ inches long, with six drills	4 00
624.*	" " Wilson's improved Gaillard's	3 00
625.*	" " Richter's, set of five	5 50
626.	" " Freeman's, for antrum	2 00
627.	" " only, set of six, for No. 630, Hamilton's, and No. 623' . .	75
627a.	" " " set of eight, for No. 631, Lentz's.	1 35
627b.	" " " set of four, for Nos. 632 and 633, Brainard's	1 25
627c.	" " " set of five, for No. 625, Richter's	1 75
628.	" Excavators, Doyen's, set of three, with one hook.	22 50
629.*	Needle, Barker's, full curved, for fracture of patella	1 50
638.	Patella Hooks, Levis' modification of Malgaigne's (see Fig. 7037) . .	4 50
638a.*	Bone Plate Holder, James'	7 50

*All instruments illustrated are designated by a *.*

Amputating and General Operating Instruments.

BONE CLAMPS.

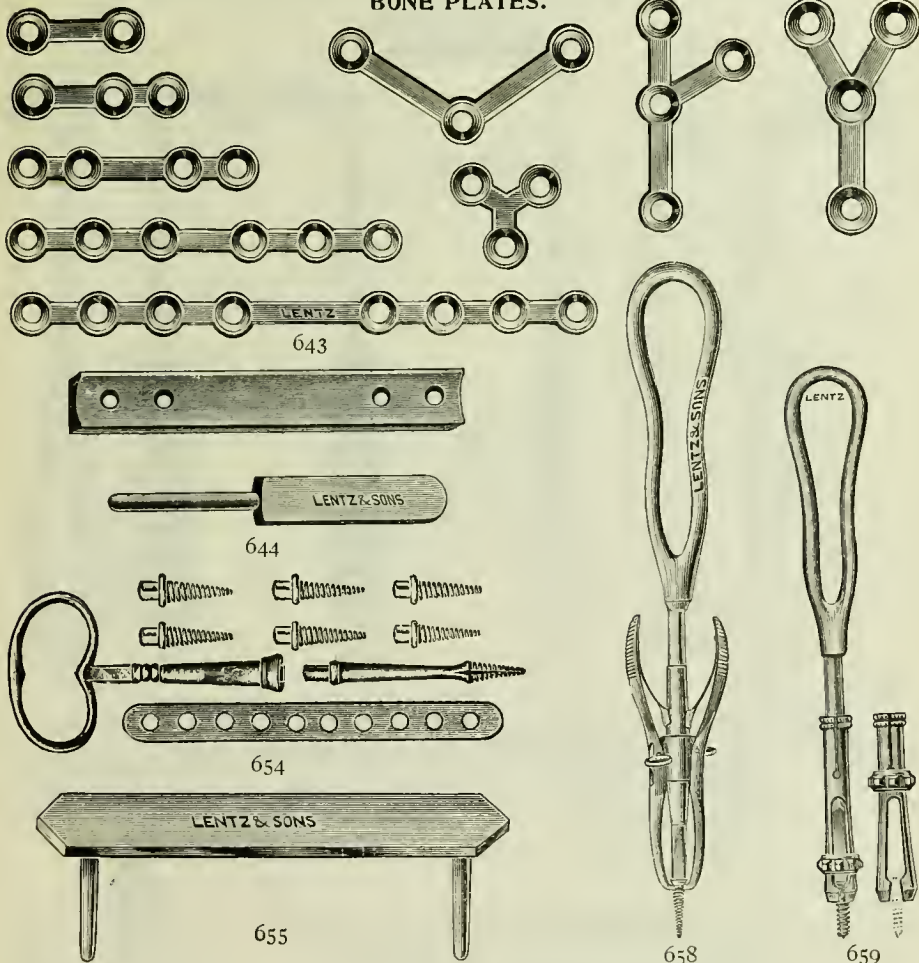


- 639.* Bone Holder, Edward Martin's, steel; two clamps on an adjustable bar for holding bones in apposition while attaching plates \$16 00
- 640. Bone Holder, Edward Martin's, steel; two clamps, with handles instead of adjustable bar 16 00
- 641.* Bone Holder and Bone Plate Holder, combined, J. B. Lowman's 7 50
It holds the fracture in closest apposition and, at the same time, holds firmly the plate awaiting the introduction of the screws. The instrument possesses the additional advantages of being easily applied, of destroying but very little of the periosteum, and of disturbing but little the surrounding tissues.
- 642.* Bone Clamps, J. C. Biddle's, steel, for un-united fractures; five sizes; intended to remain in position until union has been established.

No. 1, extreme width of fork	3/4 in., inside diameter	5/8 in.	5 00
" 2, "	1 "	7/8 "	5 50
" 3, "	1 1/2 "	7/8 "	6 00
" 4, "	2 "	1 "	7 00
" 5, "	2 1/2 "	1 "	7 50
- 650.* Bone Clamps, Parkhill's, silveroid, three sizes each 5 00
The smallest size is for use in the bones of the forearm, fibula and clavicle. The medium size is adapted for the tibia, humerus and patella. The large size for all parts of the femur, except the neck.
- 651. Bone Nails, steel, various sizes each \$0 30
- 652. Bone Pegs, ivory 30
- 653. Silver Wire, heavy . . . per yard, No. 14, \$2 25; No. 16, \$1 50; No. 18 1 00

Amputating and General Surgical Instruments.

BONE PLATES.

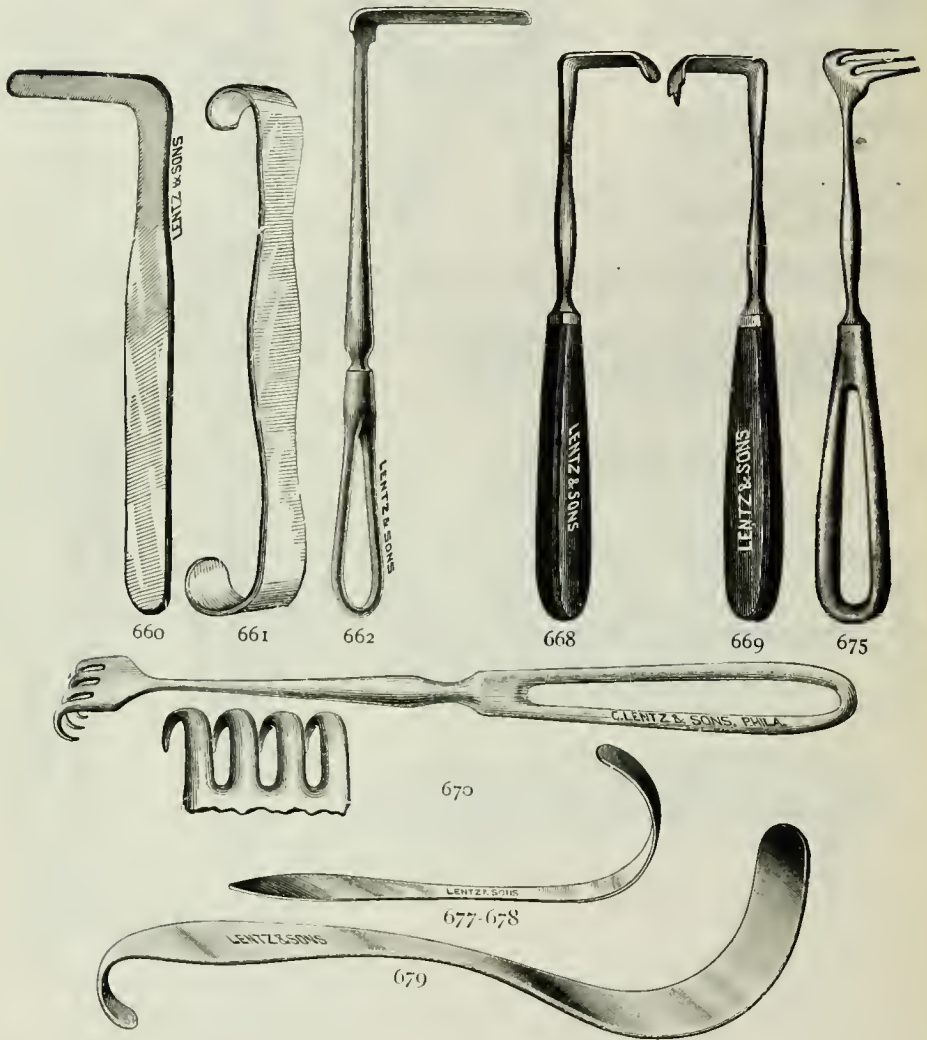


- 643.* Bone Plates, Lane's (London), steel; complete set of 27 plates of the various shapes and sizes, including 3 dozen silver-plated screws . . . \$18 00
- Separate Plates: straight, 23 to 35 m.m., 35c.; 40 to 78 m.m., 50c.; 98 to 135 m.m., 75c.; elbow, triangle, signal or Y shaped, each \$1 25.
- 649. Bone Plates, Halsted's, silver, with screws; 1/2 x 2 in., \$1.50; 5/8 x 2 1/2 in., \$1.75; 3/4 x 3 in. 2 00
- 644.* " " W. L. Estes', silveroid; small size, with 4 pegs 1 50
- large " " 6 " 2 00
- 654.* " " Sick's, set of ivory plate, steel key and 6 ivory screws . . . 3 25
- " " metal " " " 6 metal " . . . 3 75
- " " silver " " " 6 " " . . . 7 00
- 655.* " Staple, J. B. Roberts'; steel, four sizes; distance from pin to pin, 9-16 in., 1 1-16 in., 1 3/8 in., 2 in., each 1 00
- 656. Screws, silver plated, 3/8 to 7/8 in., per doz. 50c.; 1 to 1 1/2 in., per doz. 75
- 657. " silveroid, non-corrosive, per doz. 1 00
- 658.* Screw Holder and Driver combined, Martin's; the clamps hold the screw while driving it into the bone 9 00
- 659.* Screw Holder and Driver combined, Lentz's, aseptic; the clamp may be removed from the driver after the screw has taken hold, thus permitting the assistant to insert another screw while the operator completes the driving of the previous one 3 50
- 659a. Screw Driver, metal handle, plain 75

Bone Plates, Staples, Clamps, Screws, made of magnesium—quotations on request.

Amputating and General Operating Instruments.

RETRACTORS.



660.*	Retractors, Mott's, with hook handles, full size.	per pair	\$0 75
661.*	" Parker's, full size	per pair	75
662.*	" Robb's, steel, small, $\frac{7}{8}$ inch wide	each	1 35
663.	" " " medium, $1\frac{1}{8}$ inch wide	"	1 60
664	" " " large, $1\frac{3}{4}$	"	1 75
668 *	" Langenbeck's, steel, blunt, metal handles	"	1 50
669.*	" " " sharp,	"	1 50
670.*	" Volkmann's, " sharp or blunt, four prongs	"	1 50
671.	" " " " three "	"	1 35
672.	" " " " two "	"	1 25
675 *	" Billroth's, two or three prongs	"	1 50
677.*	" John B. Deaver's, steel, small	per pair	1 00
678 *	" " " " large	"	1 25
679.*	" " " " extra large, one inch blade.	"	3 00
679a.	" " " " two "	"	3 50
679b.	" " " " curve, one inch blade, for deep pelvic operations	"	3 50

All instruments illustrated are designated by a *.

Amputating and General Operating Instruments.

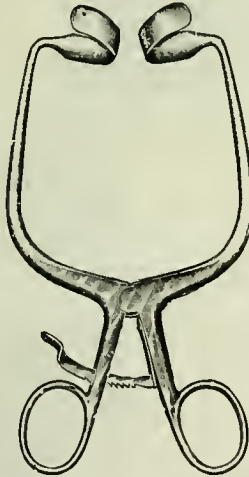
RETRACTORS.



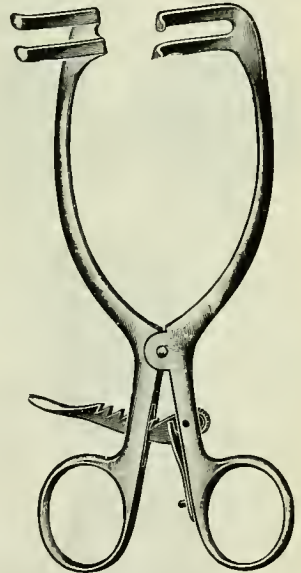
685-686



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696



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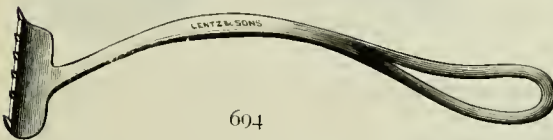
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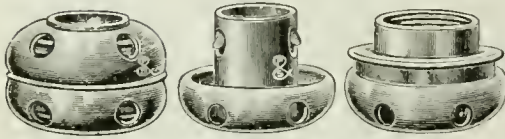
694

685.*	Retractors, Kelly's, blades 1½ and 2 inches wide	each	\$1 50
686.*	" " " 2½ and 3½ " " "	"	1 75
687.*	" Halsted's, with 3, 4 or 6 teeth	"	1 00
688.*	" " " 8, 10 or 12 teeth	"	1 25
689.*	" Richardson's, blade 2 inches long, ¾ inch wide	"	1 50
690.*	" " " ¾, 1¼ and 1½ inches wide	"	1 75
691.*	" Collin's, set of two, one resting within the other, per pair	each	1 20
692.	" Green's, two sizes	each	1 00
693.	" Ollier's, two prongs, blunt	"	1 75
694.*	" McBurney's, steel, for use in skin grafting	"	2 50
694a.	" Fritsch's, large	"	1 75
695.*	" Mayo-Adams', self-retaining, short, for appendix	"	4 50
696.*	" Mayo-Simpson's, self-retaining, large	"	7 50
697.	" Collin-Mayo-Simpson's, self-retaining, large, three blades	"	9 00
698.	" Stout's, for holding back the flaps during amputation	"	4 00
699.	" Cooper's, for holding back the flaps during amputation, set of two	"	7 00

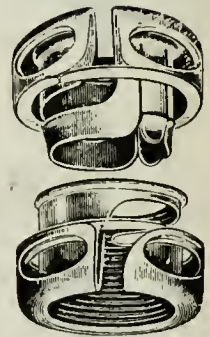
All instruments illustrated are designated by a *.

General Operating Instruments.

FOR GASTRIC AND INTESTINAL SURGERY.



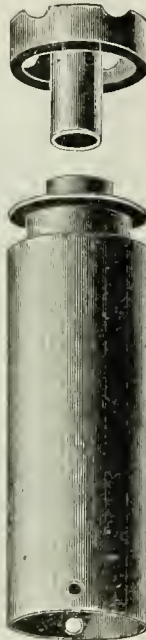
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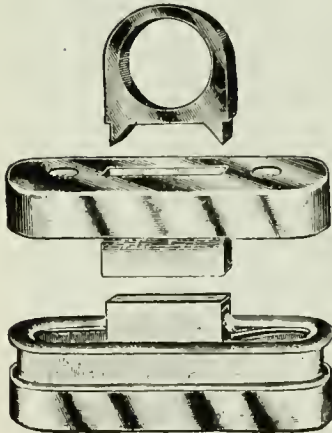
715



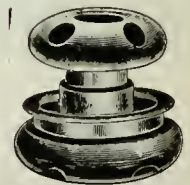
716 and 717



713



712



711a

Anastomosis Buttons.

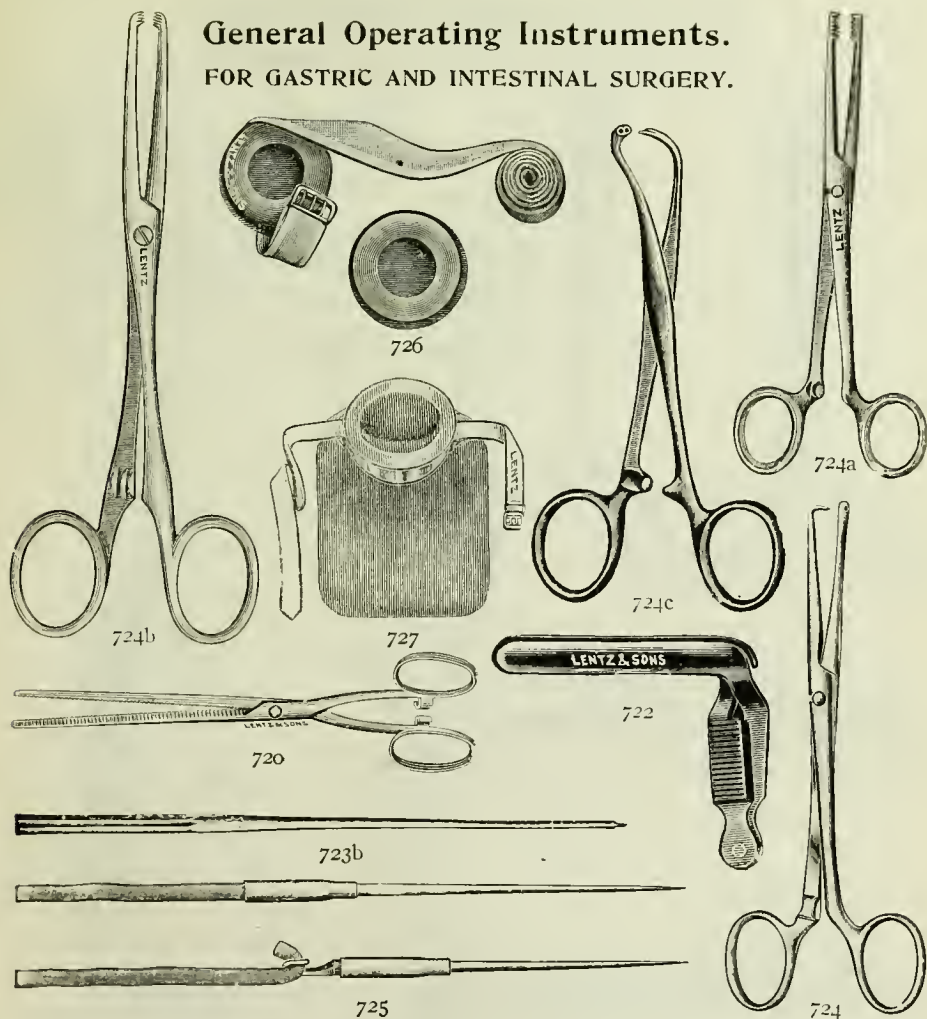
710.	Murphy's, original, four sizes	per set, \$4.50; each	\$1 25
710a.*	" latest, with large lumen, four sizes.	per set, \$6.50; each	1 75
711.	" extra large, 1½-inch diameter		2 50
711a.*	" Gastro-enterostomy Button, one end small		2 50
712.*	" " " oval, new pattern		5 00
713.*	" Cylindrical Drainage Tube Button		2 50
714.	E. O'Neill Kane's Button, metal, drawn together with braided silk; three sizes		each 1 25
715.*	Jaboulay-Lumièrè's Gastro-intestinal Button, three sizes	"	3 75
716.*	Mayo Robson's Bone Bobbin small, 75c.; medium, \$1.00; large	"	1 25
717.*	" " " extra large, for pyloroplasty	"	1 50
718.	Harrington's Segmented Ring, three sizes	"	1 50

Anastomosis Buttons Made of Magnesium—Inquiries Invited.

*All instruments illustrated are designated by a **

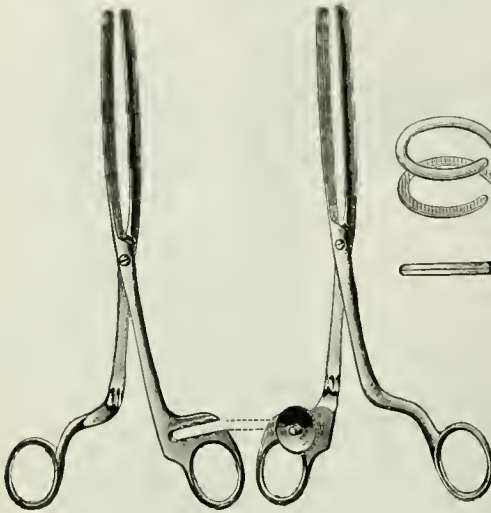
"The name LENTZ on any instrument is to you a guarantee of superior quality and absolute reliability."

General Operating Instruments.
FOR GASTRIC AND INTESTINAL SURGERY.

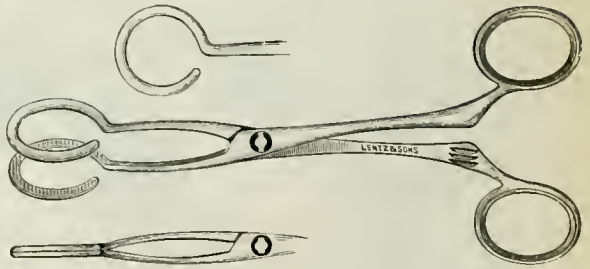


- 724.* Intestinal Forceps, Allis', 6 inches, hook and loop ends \$2 00
- 724a.* " " " 6 " teeth at sides 2 25
- 724b.* " " " 6 " teeth at ends 2 00
- 724c.* " " Smith's marginal 1 75
- 724d. " " Barrett's, with rubber cushioned jaws. 6¼ in., \$2 00; 8½ in. 2 75
- 724f. " " Chas. G. Child's, with rubber cushioned jaws 2 25
- 720.* Invagination Forceps, Laplace's 1 75
- 722.* Clamp Forceps, Murphy's, self-holding 1 25
- 723. " " Wathen's, rubber covered blades, ring handles 2 75
- 723a. " " Knapp's, self-holding 1 25
- 723b.* Appendix Tucker, Mayo's mod. of Boldt's, 6 inches long 50
- 721. Forceps for introducing intestinal button, Murphy's original 2 00
- 738a. Cholecystotomy Hammer, Kelly's, used in suture of the common bile duct. 1 00
- 738. " " Halsted's, six sizes each 1 00
- 725.* McGraw's Needles for rubber ligatures;
- No. 3 French scale, 40c.; No. 6, 60c.; No. 9, 75c; No. 12, 1 25
- 725a. Ligature, elastic, solid rubber cord, per yard small, 15c.; med., 20c.; large, 25
- 726.* Colostomy Pad for artificial anus, complete, with belt 3 50
- A circular pad with inflated ring edge giving a cup-shaped cavity ½ inch deep and 2 inches in diameter. Applied over an artificial anus or a fistula it will comfortably and snugly cover same, effectually preventing escape of any discharges.
- 727.* Receptacle for artificial anus, Brick's; aluminum ring, pure gum bag 3 00

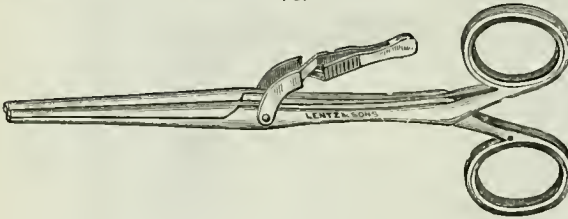
General Operating Instruments. FOR GASTRIC AND INTESTINAL SURGERY.



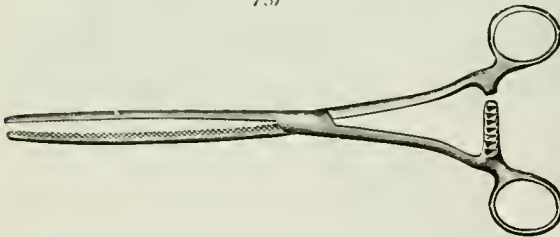
737a.



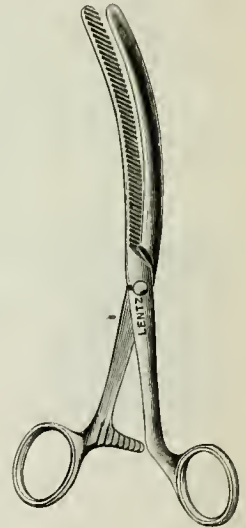
735



737



728



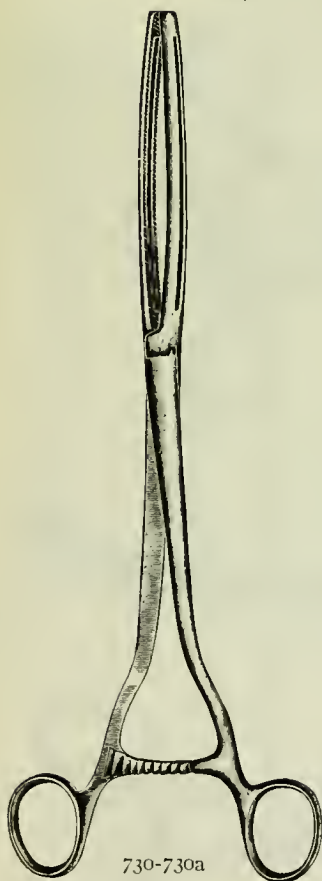
729

737.*	Intestinal Anastomosis Forceps,	O'Hara's	.set of two	\$5 00
737a.*	"	"	" " "	6 50
737b.	"	"	Laplace's, five sizes	each 4 50
735.*	"	"	Downes', three "	" 2 50
736.	"	"	" lateral, one size	2 50
736a.	"	"	Deaver's, three bladed	9 00
736b.	"	"	Lee's	8 00
736c.	"	"	Clamp, Woelfli's, ivory faced	4 50
728.*	Intestinal Clamp Forceps,	Kocher's, longitudinal serrations,	9½ inch	2 50
729.*	Stomach	"	Doyen's, for gastroenterostomy, curved spring blades, 9 inch	3 00
729a.	"	"	Doyen's, for gastroenterostomy, straight, with knife on side, 8½ inch	5 00

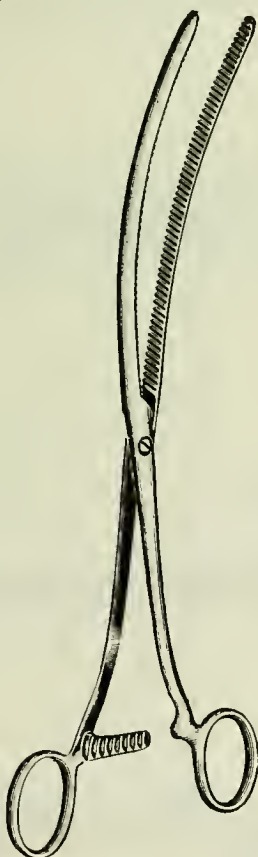
*All instruments illustrated are designated by a **

General Operating Instruments.

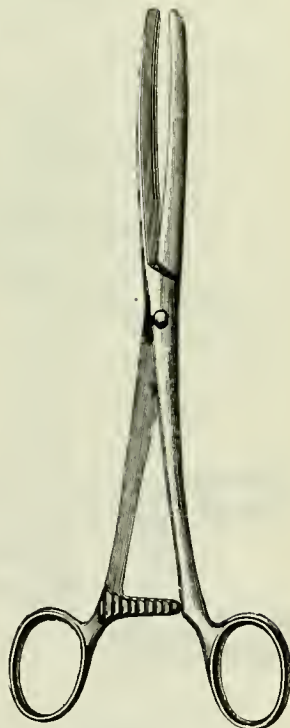
FOR GASTRIC AND INTESTINAL SURGERY.



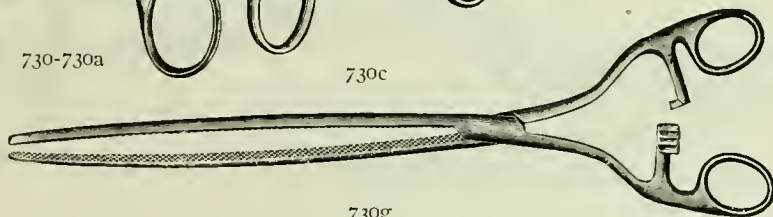
730-730a



730c



730d-e-f

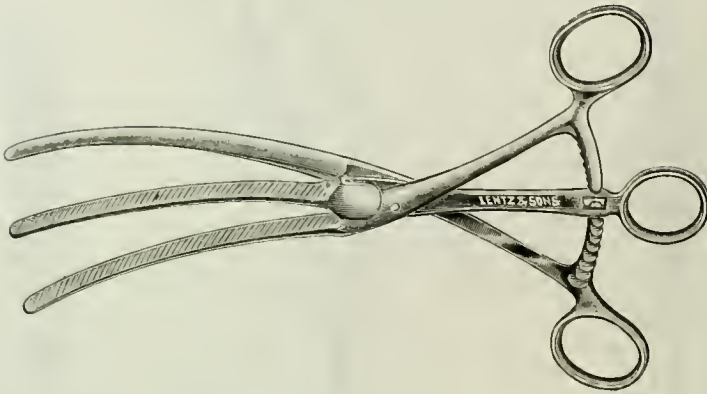


730g

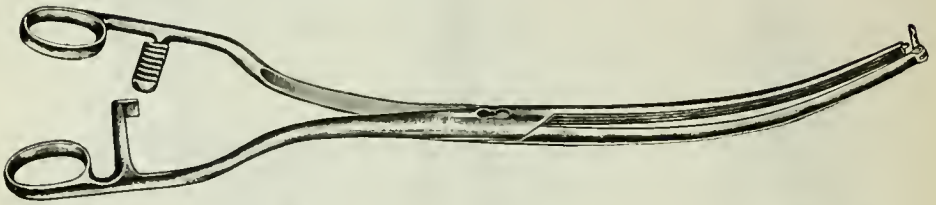
730.*	Stomach Clamp Forceps, Moynihan's, 11 inches, for gastroenterostomy	\$3 25
730a.*	" " " " latest, 12 inches, for gastrectomy	5 00
730b.	" " " Mayo-Moynihan's, curved	6 50
730c.*	" " " Mayo Robson's, curved, 10 inches, for gastroenterostomy	3 00
730d.*	" " " Scudder's, child size, 9 inches, for gastroenterostomy	3 50
730e.*	" " " " adult size, 9 $\frac{3}{4}$ inches, for gastroenterostomy	3 50
730f.*	" " " " large, 13 inches, for gastrectomy	5 00
730g.*	" " " " 13 inches, with inverted ring handles, for gastroenterostomy	5 50
730h.	" " " " 14 inches, straight, with screw clamp end, for gastrectomy	6 00
730i.	" " " " 14 inches, curved, with screw clamp end, for gastrectomy	6 50

*All instruments illustrated are designated by a *.*

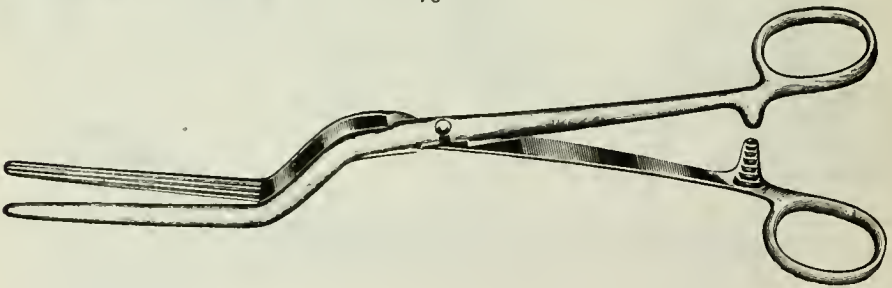
General Operating Instruments.
FOR GASTRIC AND INTESTINAL SURGERY.



731



731c



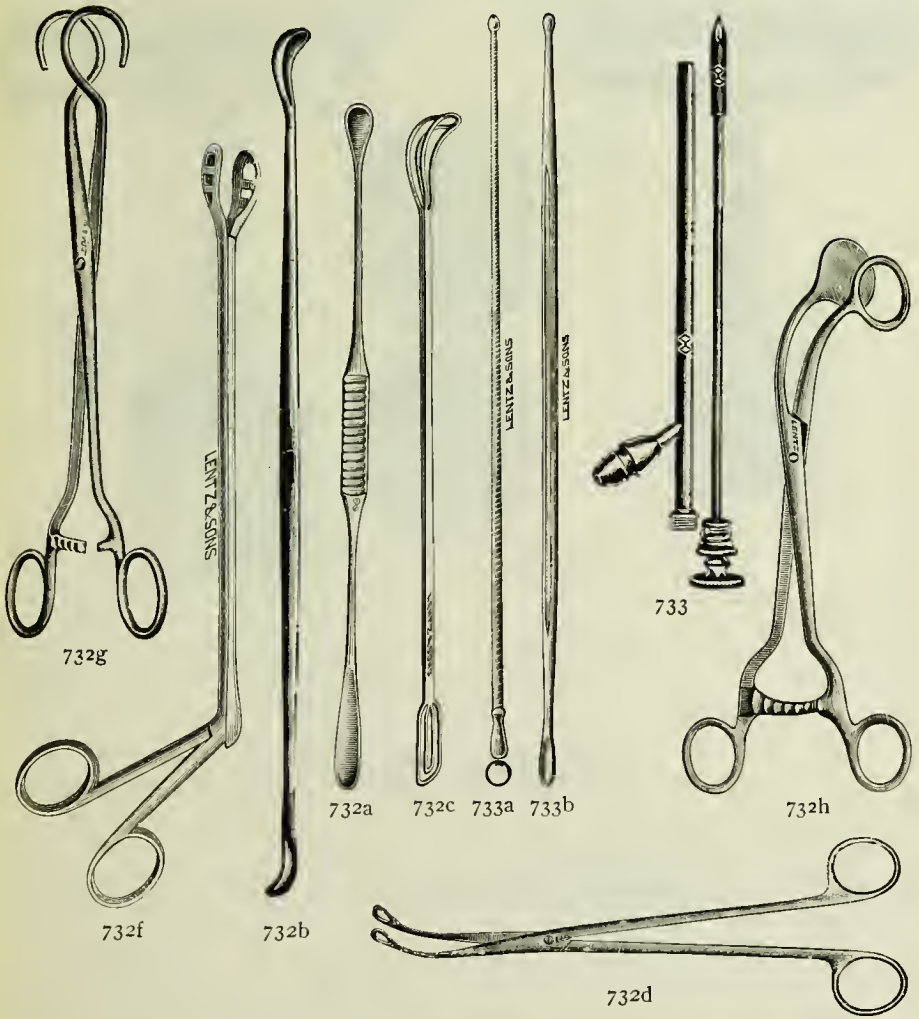
731d

731.*	Stomach Clamp Forceps,	Linnartz's,	9½ inches,	for gastroenterostomy .	\$10 00
731a.	"	"	"	M. M. Franklin-Linnartz's,	
				10½ inches, for gastrectomy . .	11 00
731b.	"	"	"	Roosevelt's, 13 " " "	12 00
731c.*	"	"	"	Kocher's, 14½ " " "	6 00
731f.	"	"	"	Graser's, inverted ring handles,	
				15½ inches, for gastrectomy .	8 00
731g.	"	"	"	Novaro's, straight, light springy blades,	
				7½ inches, for gastroenterostomy	2 50
731h.	"	"	"	" curved, light springy blades,	
				9 inches, for gastroenterostomy . .	2 75
731d.*	Intestinal	"	"	Brunner's, 10 "	3 00
731e.	"	"	"	McDonald's, 8½ "	3 25

*All instruments illustrated are designated by a *.*

General Operating Instruments.

CHOLECYSTOTOMY.

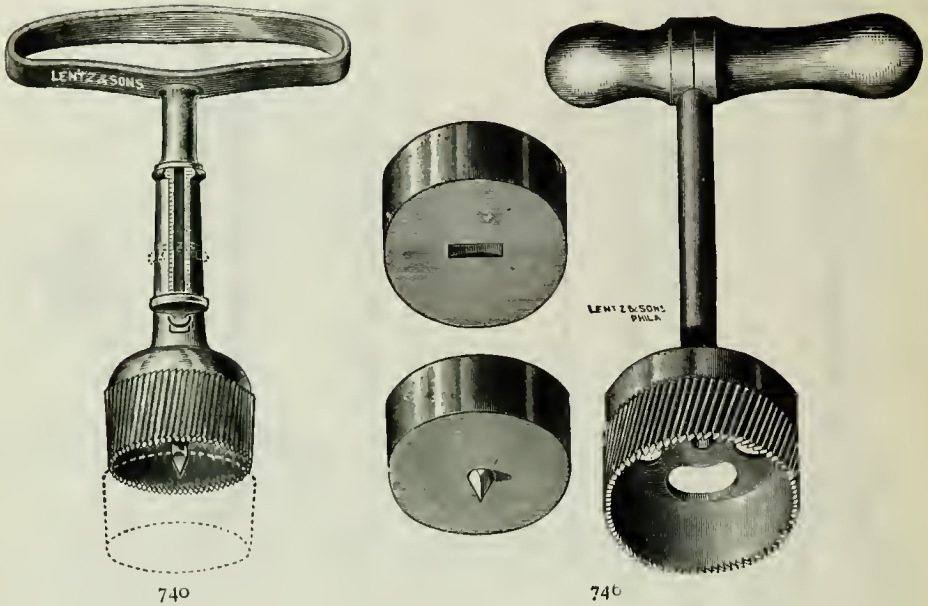


732.	Gall Stone Scoop,	Mayo Robson's, steel	.....	\$2 00
732a.*	"	"	Mayo's, steel, one end pliable	1 75
732b.*	"	"	Ferguson's, double ended, six sizes	1 25
732c.*	"	"	M. M. Franklin's, flexible copper wire, double ended	1 75
732d.*	"	Forceps,	Blake's	1 75
732e.	"	"	Mayo-Blake's	2 25
732f.*	"	"	Tait's	7 50
732g.*	"	"	C. U. Collins', for gall duct	3 50
732h.*	"	"	Schaeffer's,	6 00
733.*	Gall Bladder Trocar,	Ochsner's, three sizes	.....	each 2 00
733a.*	"	"	Probe, spiral, Ochsner-Faenger's	1 25
733b.*	"	"	Scoop and Probe, Mayo's, block tin	1 00
734.	Intestinal Tubes, glass,	Mixer's, three sizes	.....	each 25
734a.	"	"	Paul's . . . small, 40c.; med., 65c.; large,	75
734b.	"	"	Moynihan's " 60c.; " 75c.; " "	90

All instruments illustrated are designated by a *

General Operating Instruments.

TREPHINES.



740.*	Trephine, Lentz's Aseptible	...	...	...	5/8 inch	\$3 50
741.	"	"	"	"	7/8 "	\$4 25
742.	"	"	"	"	1 1/4 "	\$5 50
743.	"	"	"	set of three, with one handle		10 75

Lentz's Aseptible Cranial Trephine

is constructed with three main objects in view. *Firstly*—so that it can be easily and thoroughly cleaned and sterilized *Secondly*—so that the amount of projection of the central pin can be regulated and fixed rigidly at any point. *Thirdly*—so that the point can be drawn backwards after the serrations of the trephine have started cutting properly, and again fixed rigidly and without any danger of the central pin slipping and thus being forced in the skull.

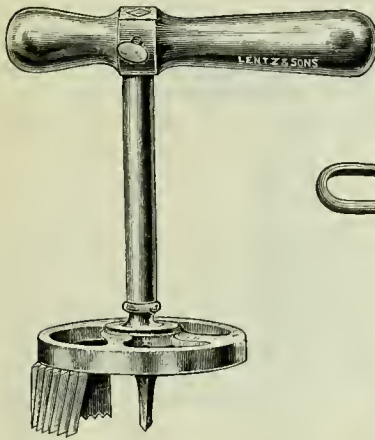
To accomplish the first object, the crown and tubular stem (or hub) are made from a *solid piece of steel* and the crown of trephine is smoothed and *rounded* on the interior; this smoothness being carried to the extreme edge of the teeth. The hub is large enough to easily admit a brush or strip of gauze for cleaning. To meet the second and third essentials of rigidity during operation, the handle, interior stem and point are also made of one piece; they fit accurately and slide in the outer tubular stem; this outer stem is provided with a slot with flattened and serrated face extending nearly to the dome portion of the crown to admit and abut against the thumb screw. *It* (the outer stem) *is tapered* so that when the thumb screw is tightened at any point along the slot, any exertions of the operator tend to fix it still more rigidly. There is no possibility of it slipping.

745.	Trephine, Roberts'	...	...	1/2 inch,	\$3 50;	3/4 inch	\$4 00
746.*	"	"	"	1 "	4 50;	1 1/4 "	5 00
747.	"	"	"	"		1 1/2 "	6 00
748.	"	"	3 sizes, 1/2 inch, 1 inch and 1 1/4 inch, with one adjustable handle, in a handsome, compact mahogany case.				13 50

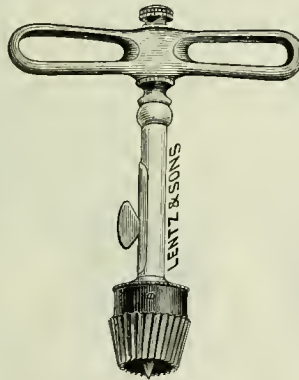
*All instruments illustrated are designated by a *.*

General Operating Instruments.

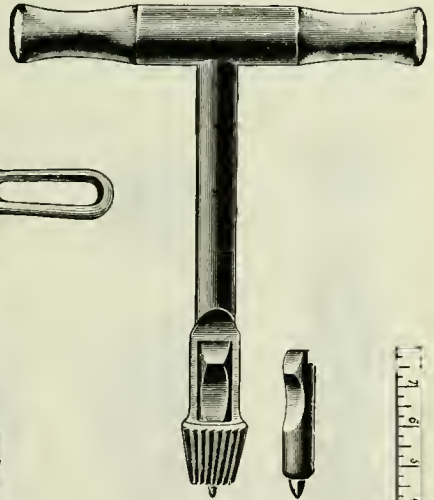
TREPHINES.



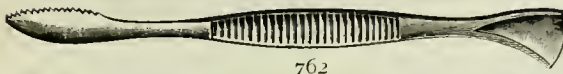
750



758



760



762



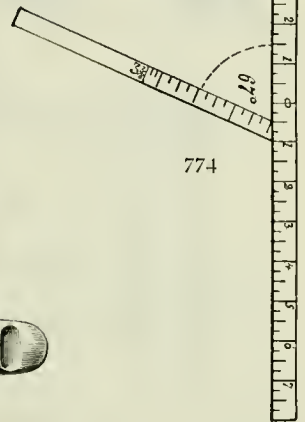
763



764



769

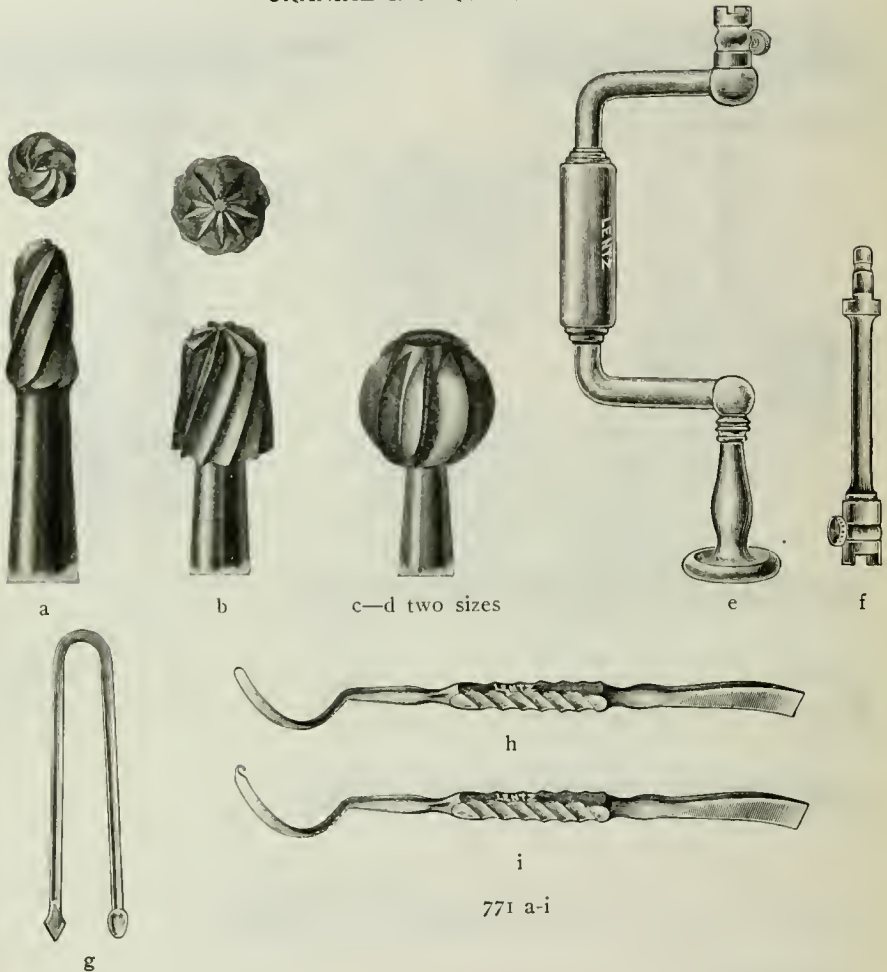


774

750.*	Trepphine, Segment, J. B. Roberts' latest, two inch	\$9 00
758.*	" Galt's conical, three sizes	2 25
759.	" " large and small, both with one handle	4 00
760.*	" DeVilbiss' conical, small, with removable centering point	1 50
761.	" Buchanan's, small	2 25
762.*	" Elevator, plain	65
767.	" " Crile's	75
768.	" " Buchanan's	75
763.*	" " and Raspatory	75
764.*	" Scalpel and Raspatory	1 25
769.*	Cranial Rasp, Roberts'	2 25
770.	" Chisel, Keen's	2 25
774.*	Fissure Meter, Morris J. Lewis'	4 50
777.	Calipers, Cranial Index, Horsley's	10 00
778.	" for measuring cerebral lesions, Doyen's	3 50
778a.	Mensurateur, for measuring the thickness of the skull, Doyen's	2 00
778b.	Knives, rounded edge, Crile's, double-ended, one blade slightly curved on flat, the other angular on flat, for Gasserian ganglion	1 75

*All instruments illustrated are designated by a *.*

General Operating Instruments.
CRANIAL INSTRUMENTS.



771 a-i

771.* Dr. Wm. H. Hudson's Cranial Instruments; complete set in washable instrument roll . . . \$81 50

Set consists of four Cranial Burrs with Hand Brace (a, b, c, d, e), \$50.00; Cerebellum Attachment (f), \$2.50; Calipers (g), \$2.00; Dural Separator and Elevator (h), \$3.50; Gigli Saw Carrier and Elevator (i), \$3.50; Rongeur Forceps (k), \$20.00.

Owing to a certain automatic safety principle in the construction of the trephine burrs these instruments render the trephining of the skull *absolutely safe*. Dr. W. W. Keen, in the addendum to "Keen's Surgery," says about the burrs: "They are peculiar in this respect, that *so long as there is any resistance* the blades, which are *spiral cutting blades*, will very rapidly cut their way through the skull, but *so soon as resistance ceases—i. e., so soon as the duro is reached*, or even a very thin layer of bone on the inner surface of the skull which yields to pressure—the instrument ceases to advance, for the brace can no longer be turned. Be the skull thin or thick, the burr will cut rapidly until it is nearly or barely through and then stops."

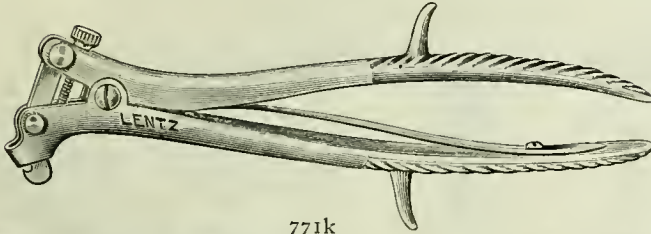
The Hudson Rongeur Forceps (k) are the most powerful of their kind, and they do not slip.

Any osteoplastic operation with the aid of Dr. Hudson's Cranial Set is performed with great ease, absolute safety and most speedily. For cranial operations on infants they are the only instruments which can be used with safety.

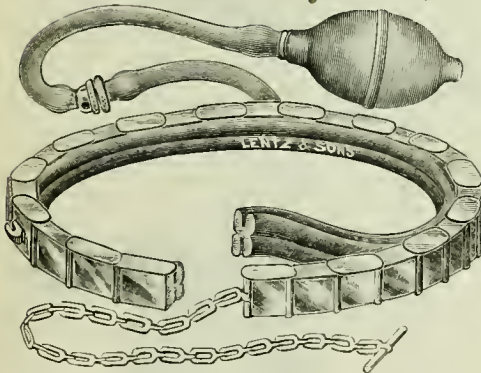
*All instruments illustrated ore designated by o **

General Operating Instruments.

CRANIAL AND BRAIN INSTRUMENTS.



771k



772



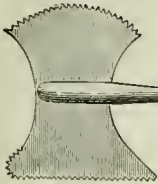
799 and 799a
(described on page 59)



770



798



766

770.*	Cranial Chisel, Keen's	\$2 50
771k.*	Cranial Rongeur Forceps, Hudson's, with extra jaw blade	20 00
772.*	Cranial Chain Tourniquet, Lentz's	18 00

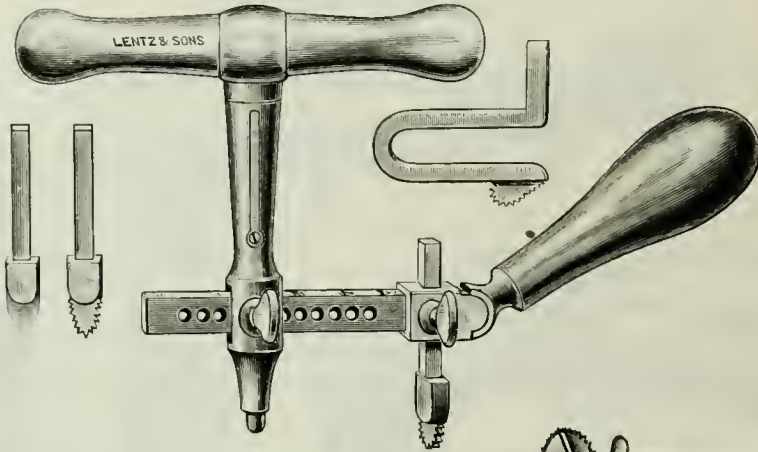
It owes its inception to Dr. A. C. Wood's idea of utilizing for tourniquet a collapsible rubber tube which permits of large expansion. With this idea as a basis, we encased the tube in a chain of U shaped links. When the operator inflates the tube, after the instrument is applied firmly, expansion takes place at all points of least resistance, hence the compression becomes equal at all indentations along the contour of the cranium.

776.	Scalp Hemostats (see Hemostatic Forceps).	
766.*	Skull Saw, Hey's	1 35
780.	" " Doyen's, with guard and graduation (illustration page 34)	6 00
799a.*	Wire Saw, Gigli's. 12 inch, 30c.; 20 inch, 40c.; 30 inch	60
798.*	Handles for Gigli's Saw, wire ring	50
799.*	" " " " " fine	per pair 1 50
781.	Holder " " " " " Payr's, with one saw	5 00
782.	Conductor for Gigli's Saw, Payr's	3 00
783.	" " " " " plain	50
783a.	" " " " " Schaeffer's	1 75
784.	" " " " " with handle, for wire or chain saw	1 50

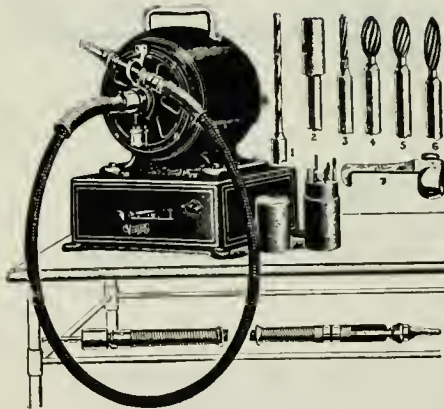
*All instruments illustrated are designated by a *.*

General Operating Instruments.

CRANIAL INSTRUMENTS.



751



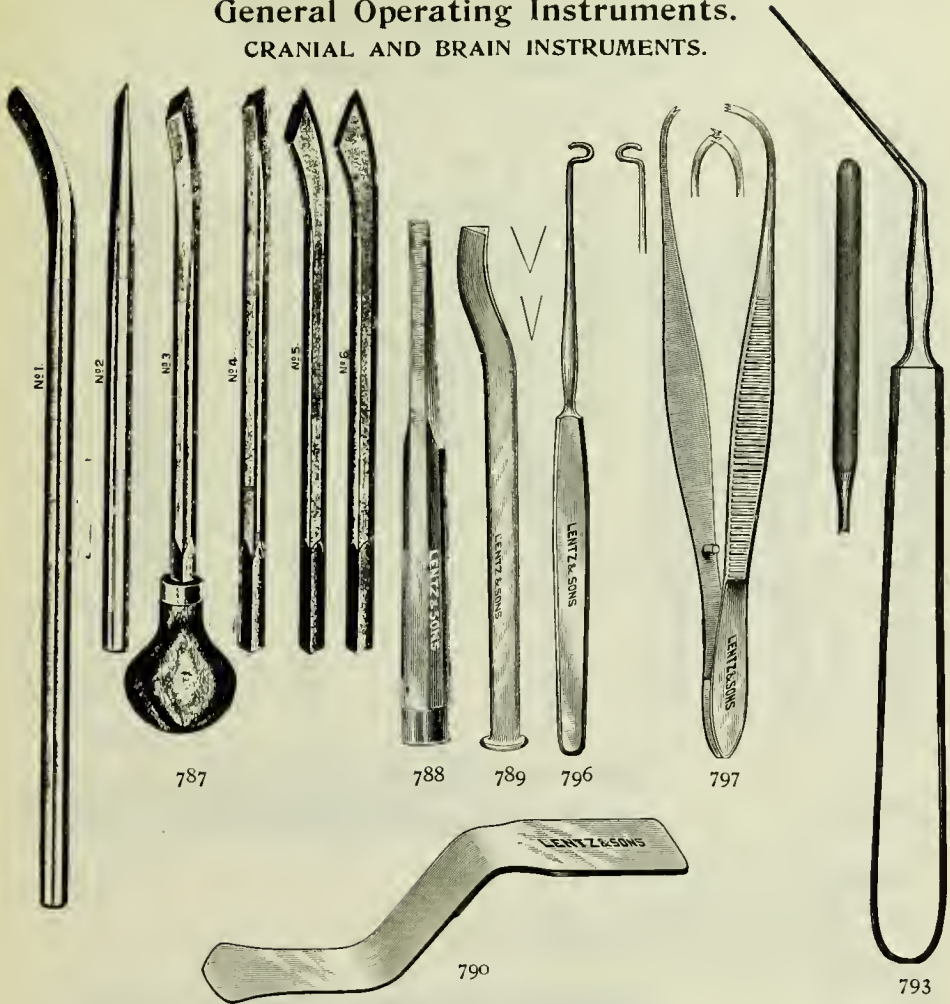
755-757

753-754

- 751.* Trephine, Wood's modified Stellwagen's for osteoplastic resection of the skull; with one knife blade and three saw blades, as illustrated, complete \$20 00
- 752. Trephine, Stellwagen's original, for osteoplastic resection of the skull, complete 15 00
- 753.* Cranial Saw, Masland's, complete with shaft and sheath, but without motor 50 00
- 754.* Cranial Saw, Masland's, same as No. 753, with 110-volt direct-current motor 85 00
- 755.* Electric Engine, "Victor," for bone surgery; complete for general bone work and osteoplastic resection of the skull; with motor for 110-volt direct current 115 00
- 756.* Electric Engine, "Victor;" complete with motor for 220-volt direct current 120 00
- 757.* " " " " " " " " 110-volt—60 cycles alternating current 125 00

*All instruments illustrated are designated by a *.*

General Operating Instruments.
CRANIAL AND BRAIN INSTRUMENTS.



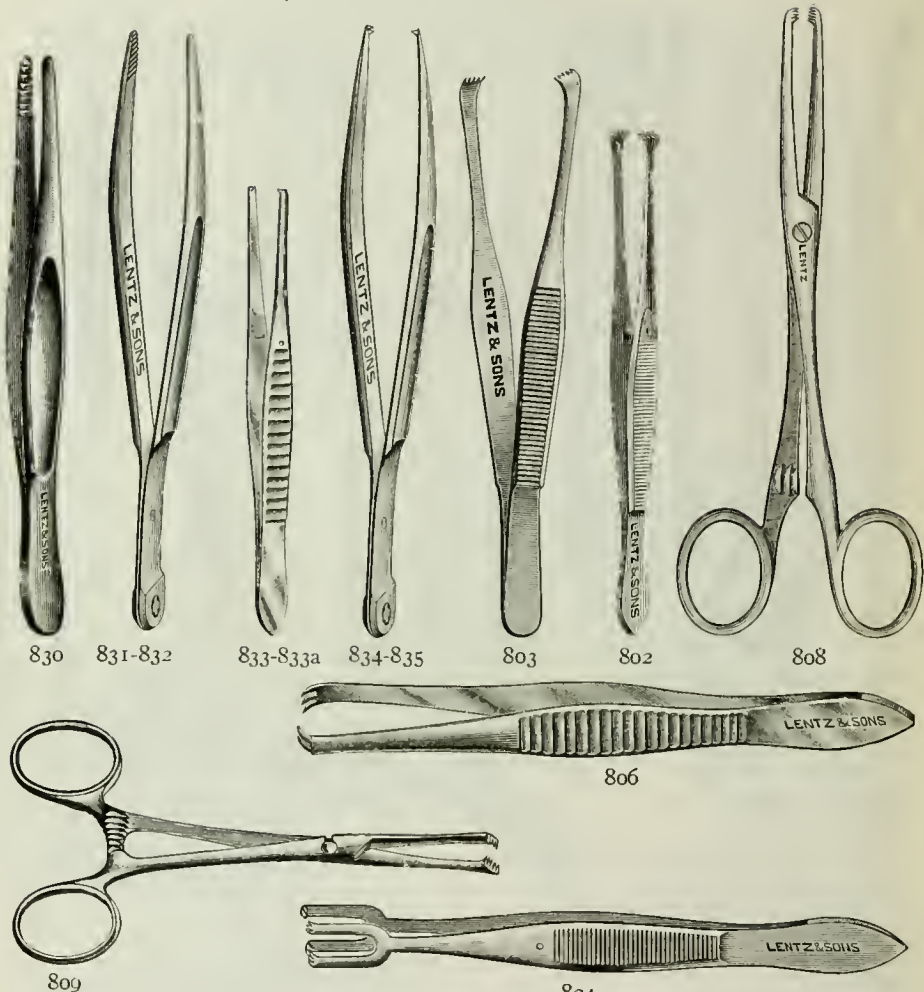
- 787.* Elevators and Cranial Chisels, J. L. Pyle's, set of 6 chisels, various shapes and sizes fitting into one handle, and three elevators, in polished wood case \$ 10 50
- 788.* Cranial Chisel, Hartley's, wedge shape, with octagon handle I 50
- 789.* " " " V shape, 2 sizes each 2 00
- 790.* Brain Spatula, Keen's steel, re-inforced I 50
- 791. " " " plain, same size and shape as No. 790 75
- 792. " Separator, Laplace's, of wire, two forms each 25
- 793.* Separator, dural, Horsley's, angular, with metal handle I 25
- 794. Spatula, " " flexible " " I 25
- 795. Needle, " " with handle, curved right or left each I 25
- 796.* Hook, " " " " " " " I 00
- 797.* Toothed Forceps, dural, Horsley's curved I 50
- 799.* Wire Saws, Gigli's; can be used to advantage in a variety of operations. It is made of steel wire, with a very fine set of teeth all round, so that it can be used in any direction. It cuts like a knife, and with it soft tissues can be divided as well as bone. This saw is made in three different sizes. (Illustration on page 57.)
- Two 12 inch saws with two fine handles 2 00
- " 20 " " " " " " 2 25
- " 30 " " " " " " 2 65

extra saws, 30c., 40c. and 60c.

All instruments illustrated are designated by a *.

General Operating Instruments.

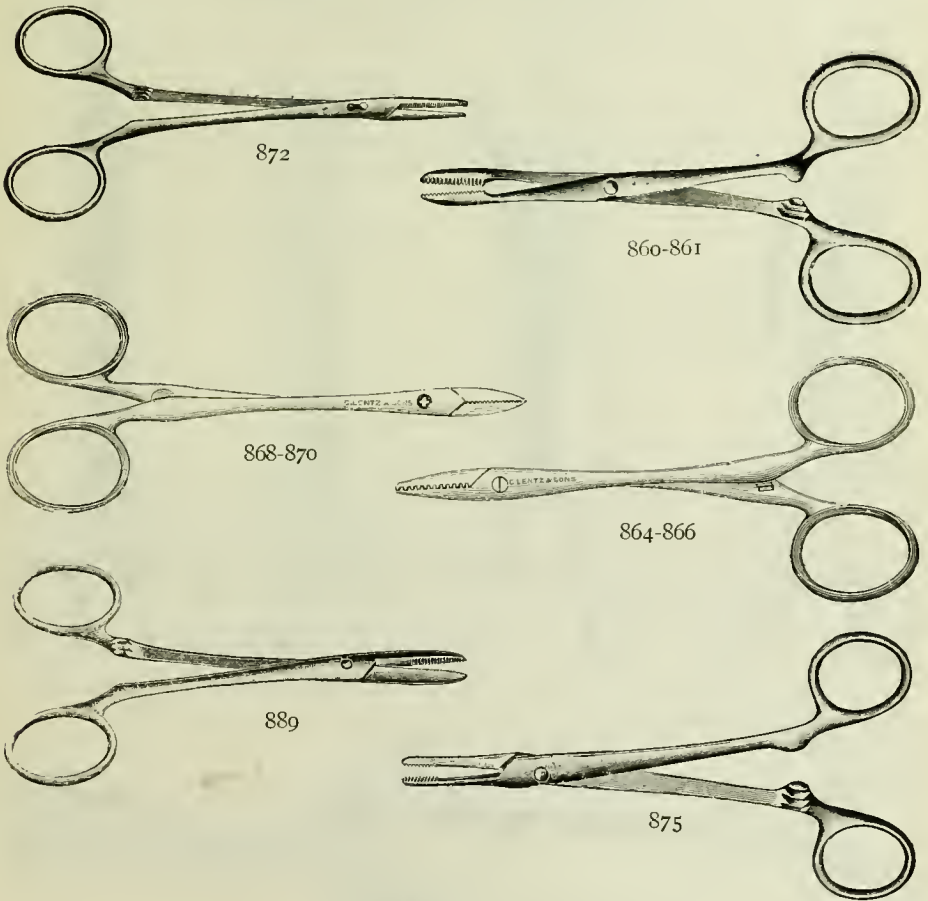
DRESSING AND TISSUE FORCEPS.



830.*	Thumb Forceps, serrated; 4 inch and 4½ inch	each \$0 45
830.*	“ “ “ 5 “ 5½ “	“ 55
828	“ “ “ Kelly-Halsted's; 5 inch	“ 75
831.*	“ “ “ Coxeter's, heavy; 5½ inch	“ 1 25
832.*	“ “ “ Robb's, separable blades; 5½ inch	“ 2 00
829.	“ “ “ hospital pattern; 5 inch, 85c.; 5½ inch	“ 1 00
833.*	“ “ “ one and two teeth; 4½ inch, 60c.; 5 inch	“ 70
833a.*	“ “ “ two and three teeth; 4½ inch, 70c.; 5 inch	“ 80
834.*	“ “ “ one and two teeth, Coxeter's, heavy; 5½ inch	“ 1 35
835.*	“ “ “ one and two teeth, Robb's, separable, 5½ inch	“ 2 00
802.*	Tissue Holding Forceps, four and five teeth; 4½ inch, \$1.00; 5 inch	“ 1 15
803.*	“ “ “ I. S. Stone's, five and six teeth; 6 inch	“ 1 25
804.	“ “ “ Kelly's, slender, one and two teeth; 6 inch	“ 1 50
805.	“ “ “ Kelly-Halsted's, three and four teeth; 5 inch	“ 1 50
806.*	“ “ “ Deaver's, two and three teeth; 4½ inch	“ 1 50
807.	“ “ “ Mayo's; 3½ inch	“ 90
808.*	“ “ “ Allis', ring handle; 6 inch	“ 2 00
809.*	“ “ “ Doyen's, ring handle; 5 inch	“ 1 35
824.*	Suture Forceps, Roubaix's, straight, \$1.25; curved	“ 1 50
825.	Appendix Holding Forceps, Deaver's, serrated; 6 inch	“ 1 25

General Operating Instruments.

ARTERIAL—HEMOSTATIC FORCEPS.



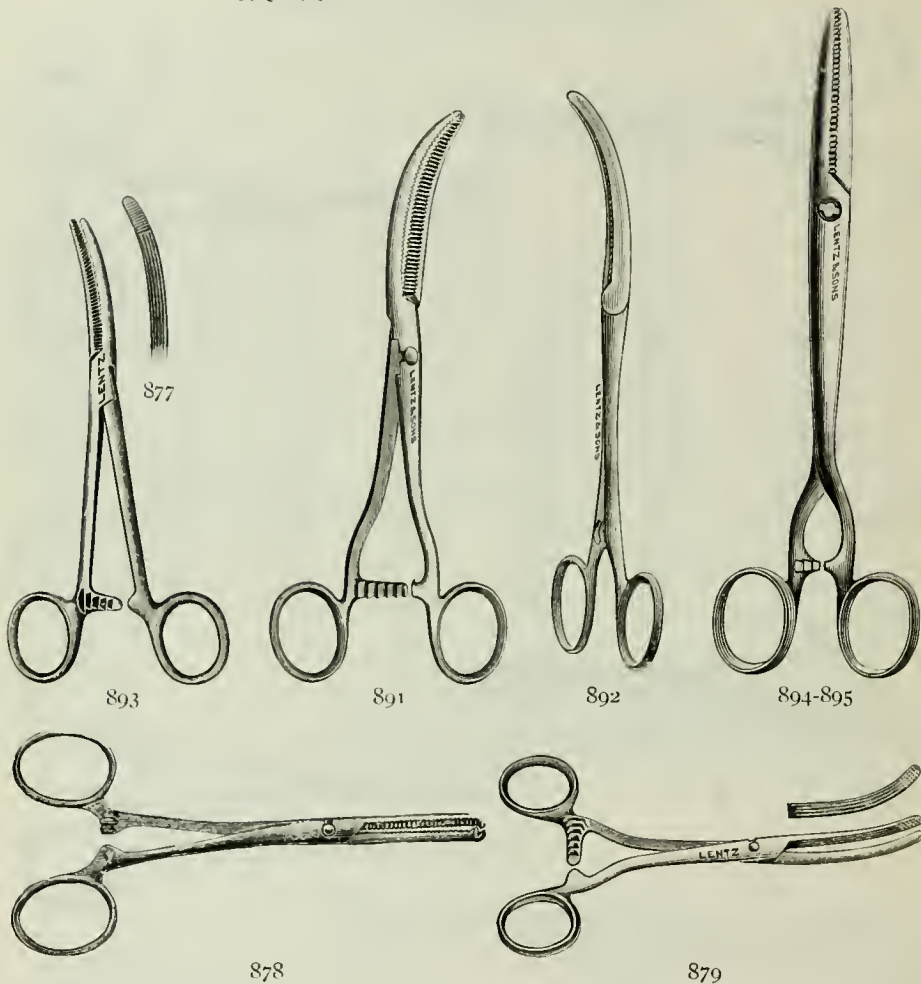
Hemostatic Forceps.

860.*	Pean's, regular style, 4½ inch	per dozen	\$4 80;	each	\$0 50
861.*	" " " 5 "	" "	5 40;	"	60
864.*	Tait's, " " 5 "	" "	5 40;	"	60
865.*	" " best, 5 inch	" "	7 00;	"	75
866.*	" Lentz's special, superior, 5½ inch	" "	17 50;	"	I 60
867.	" curved, " 5 "	" "	10 00;	"	I 00
868.*	Wells', regular, " 5 "	" "	6 00;	"	65
869.*	" best, " 5 "	" "	9 00;	"	I 00
870.*	" Lentz's, special, superior, 5¼ " French or screw joint	" "	17 50;	"	I 60
871.	Jos. Price's, superior, 5¼ inch, French or screw joint	" "	17 50;	"	I 60
880 *	Halsted's, straight	" "	12 00;	"	I 25
890.	" curved	" "	12 00;	"	I 25
872.*	" straight, mosquito, very light	" "	9 60;	"	I 00
873.	" curved, " "	" "	10 00;	"	I 10
874.	" straight, Johns Hopkins pattern, Collin's lock	" "	12 00;	"	I 25
875.*	Kelly's, straight, fine-pointed	" "	10 00;	"	I 15
876.	" curved " "	" "	12 00;	"	I 25

*All instruments illustrated are designated by a *.*

General Operating Instruments.

ARTERIAL—HEMOSTATIC FORCEPS.



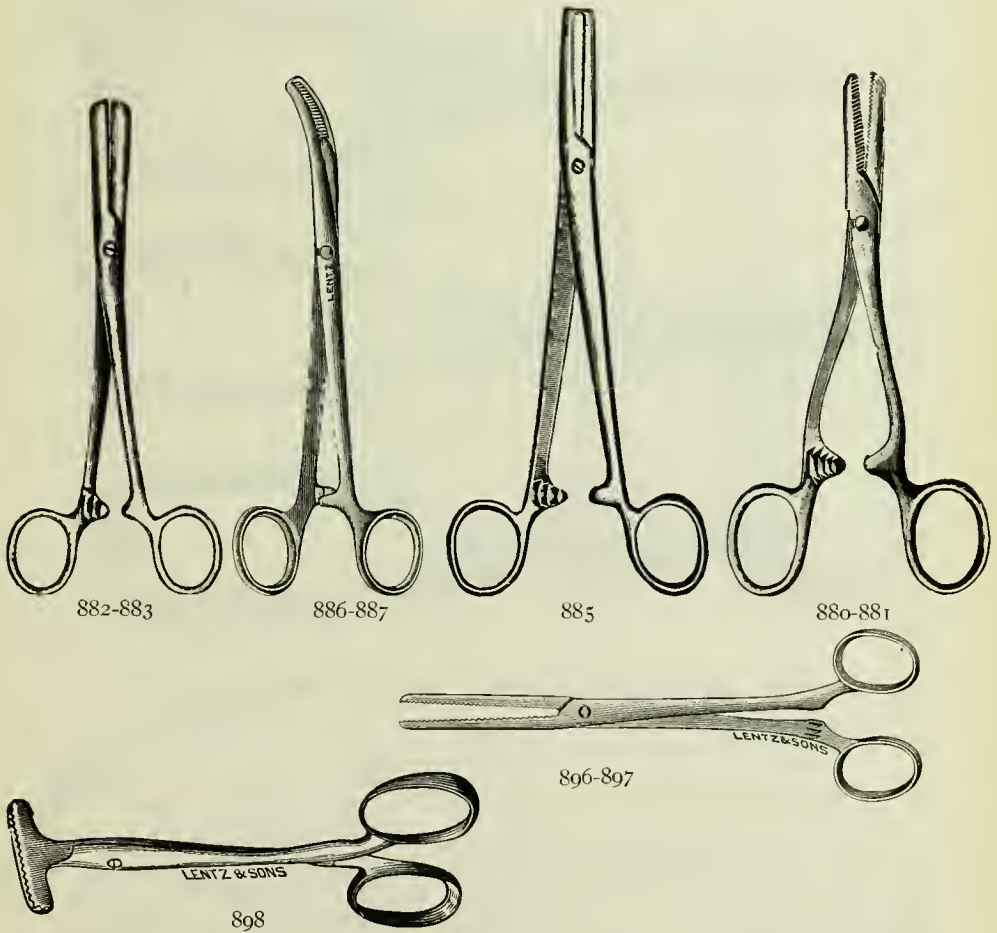
Hemostatic Forceps.

891.*	Kelly-Pean's, long curved spring jaw, 6¼ inch.	per dozen	\$13 50;	each	\$1 25
877.*	Mayo-Carmalt's, long curved jaw, box joint, 6¼ inch, longitudinal serrations	“ “	18 00;	“	1 75
892.*	Pean's, long curved jaw, 6 inch	“ “	16 50;	“	1 60
893.*	Ochsner-Pean's, long curved jaw, 6 inch	“ “	15 00;	“	1 50
894.*	Ethridge's, long straight jaw, 6 inch	“ “	13 50;	“	1 25
895.*	“ “ “ “ “ “ “ “ “ “	“ “	16 50;	“	1 50
878.*	Koehler's, straight, with teeth, 5 and 5½ inch	“ “	10 00;	“	1 00
879 *	Carmalt's, curved jaw, 6¼ inch	“ “	16 50;	“	1 50
900.	Wyeth's, long slender jaw	“ “	10 00;	“	1 00
901.	Jones', “ “ “ “ “ “ “ “ “ “	“ “	9 60;	“	1 00
902.	John B. Deaver's special, superior, screw lock	“ “	24 00;	“	2 25
903.	Wm. B. Van Lennep's special, screw lock, 6 inch	“ “	21 00;	“	2 00
903a.	Mixer's, elbow, 6 inch	“ “	“	“	2 25
903b.	Provident Hospital, light round shanks, box joint, straight, 5½ in.	“ “	“	“	1 35
903c.	“ “ “ “ “ “ “ “ “ “ curved, 5½ in.	“ “	“	“	1 50

*All instruments illustrated are designated by a **

General Operating Instruments.

ARTERIAL—HEMOSTATIC FORCEPS.



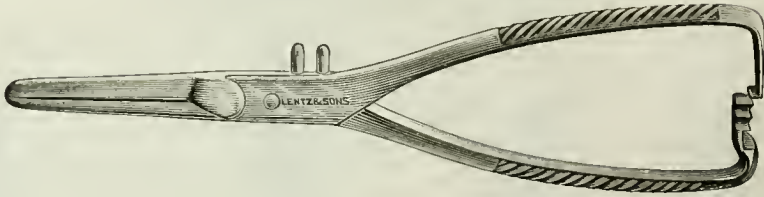
Hemostatic Forceps.

880.*	Ferguson's straight, 5½ inch	\$1 25
881.*	" " 6½ "	1 50
882.*	" angiotribe pattern, straight, 6¼ inch	1 50
883.*	" " " " 7¼ "	1 75
884.*	" " " " curved, 6¼ inch., \$1 75; 7½ inch	2 00
885.*	Ochsner's, with teeth, 6¼ inch	1 75
886.*	Mikulicz's, curved, with teeth, light, 7¼ inch	1 75
887.*	" " " " heavy, 7½ inch	2 50
896.*	Keith's, long jaw, 6 inch	1 50
897.*	" " " 7 "	1 75
898.*	Thornton's, T-shaped, 5 inch	1 50
899.	Pratt's, T- " 6 "	1 25
905.	Houzel's Scalp Hemostatic Forceps	2 25
906.	Hudson's " " " right angle	2 50
907.	" " " " T-shaped	4 50

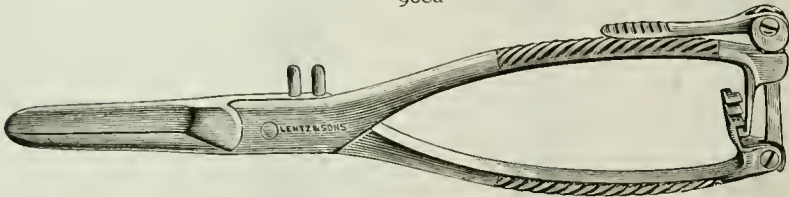
*All instruments illustrated are designated by a *.*

General Operating Instruments.

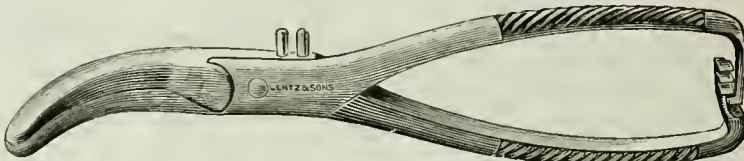
ELECTRO-THERMIC HEMOSTATIC FORCEPS.



908a



908b-c



908d

- 908a.* Downes' Electro-Thermic Angiotribe, small, without lever; blade 2¼ inches long, ¼ inch wide \$20 00
 - 908b.* Downes' Electro-Thermic Angiotribe, medium, either with lever or without lever; blade 2¼ inches long, ⅜ inch wide 20 00
 - 908c.* Downes' Electro-Thermic Angiotribe, large, with lever; blade 2¼ inches long, ½ inch wide 20 00
 - 908d.* Downes' Electro-Thermic Angiotribe, curved, medium, without lever; blade 2¼ inches long, ⅜ inch wide 22 00
- Reprints and fully descriptive circular on application.

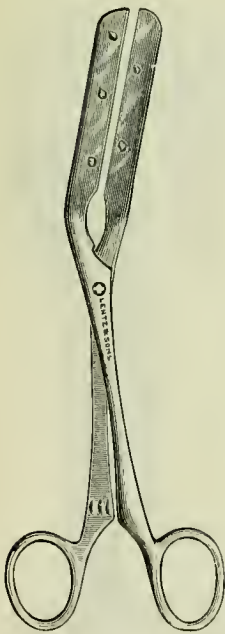
For the purpose of operating Dr. Downes' electro-thermic instruments we recommend the following apparatus, which are illustrated and more fully described in the "Electrical" section:

Current Transformer for 104 volt alternating current, without ampère meter	\$25 00
With the addition of foot switch, connecting cords and plug	28 50
Current Transformer for 104 volt alternating current, with ampère meter; including foot switch, connecting cords and plug	65 00
Current Transformer, combined with a motor transformer in one case, for 110 volt direct current; including foot switch, connecting cords and plug:	
Without ampère meter	65 00
With ampère meter	100 00
Storage Battery, 4 volts, 100 ampères:	
Without ampère meter	55 00
With ampère meter	80 00

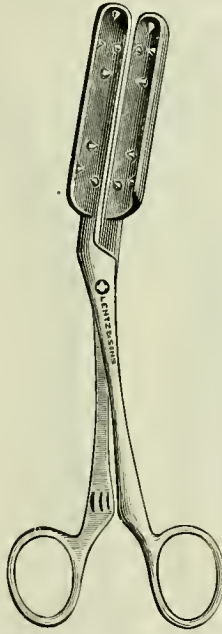
*All instruments illustrated are designated by a **

General Operating Instruments.

ELECTRO-THERMIC SHIELD FORCEPS AND CAUTERY INSTRUMENTS.



908e



908f



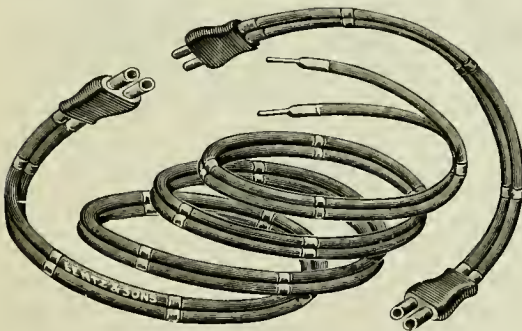
908h



908i



908k



908l



908n

908e.*	Downes' Hemorrhoidal Shield Forceps	\$3 25
908f.*	“ Abdominal “ “ straight	4 75
908g.	“ “ “ “ curved	5 75

Designed to protect the surrounding tissue when using Dr. Downes' angiotribes; Fig. f surrounds the blades almost entirely.

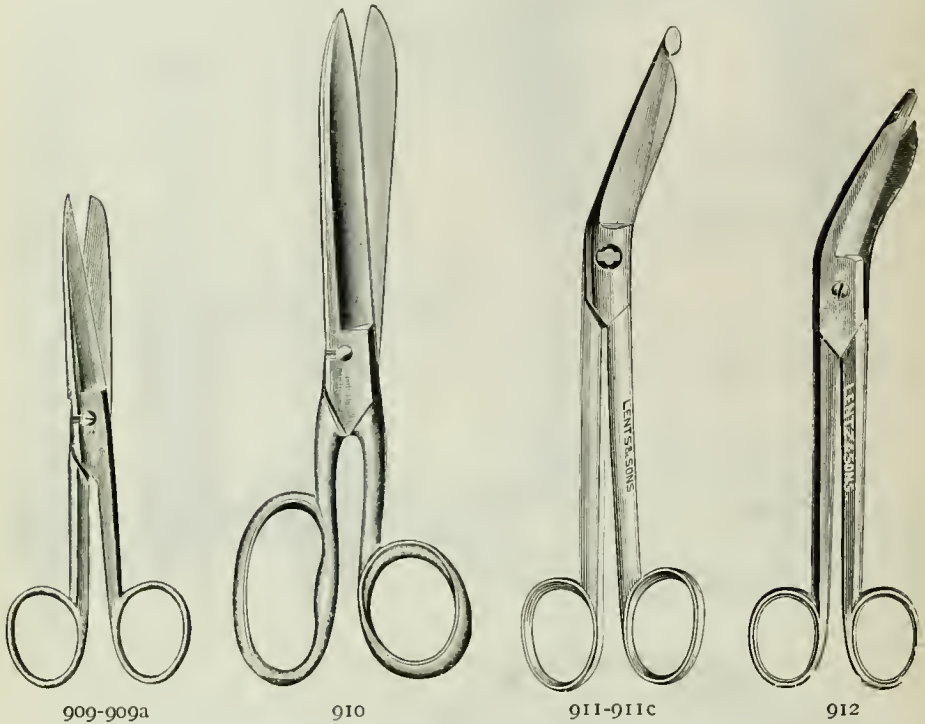
908h.*	Cautery Knife, heavy, 4½ inches	6 00
908i.*	“ “ “ with extra long handle, 8 inches	7 50
908k.*	“ Spiral Dome, 8 inches; spiral 5/8 in. diam., 3/8 in. long.	20 00
908l.*	“ Cable, specially heavy, two sections, 60 inches long	6 00
908n.	“ “ “ “ single section, 60 inches long	4 00
908n.*	Tritch's special attachment for connecting cautery cable with angiotribe without bending cable at a sharp angle	3 00

Reprints and fully descriptive circular on application.

*All instruments illustrated are designated by a *.*

General Operating Instruments.

DRESSING AND BANDAGE SCISSORS.



909.*	Scissors, Nurse and Hospital, heavy, 5 inch	\$1 00
909a.*	“ “ “ “ 5½ “	1 10
910.*	“ Bandage, U. S. A. pattern, screw or aseptic joint	1 50
911.*	“ “ Lister’s, angular, 4½ inch, screw or aseptic joint	1 00
911a.*	“ “ “ “ 5½ “ “ “ “ “	1 00
911b.*	“ “ “ “ 7 “ “ “ “ “	1 35
911c.*	“ “ “ “ 8 “ “ “ “ “	1 65
912.*	“ “ Esmarch’s, heavy, 9 “ “ “ “ “	2 00
912a.	“ “ “ “ 9 “ with eccentric sliding action	3 00
913.	“ “ Penna. Hospital pattern, angular, 10 inch, with screw, one large ring like fig. 910	2 50
914.	“ “ straight, blunt ends, 9 inch, one large ring	1 00

Our Bandage Scissors are of superior quality and fully guaranteed to met every demand of the hard usage they experience.

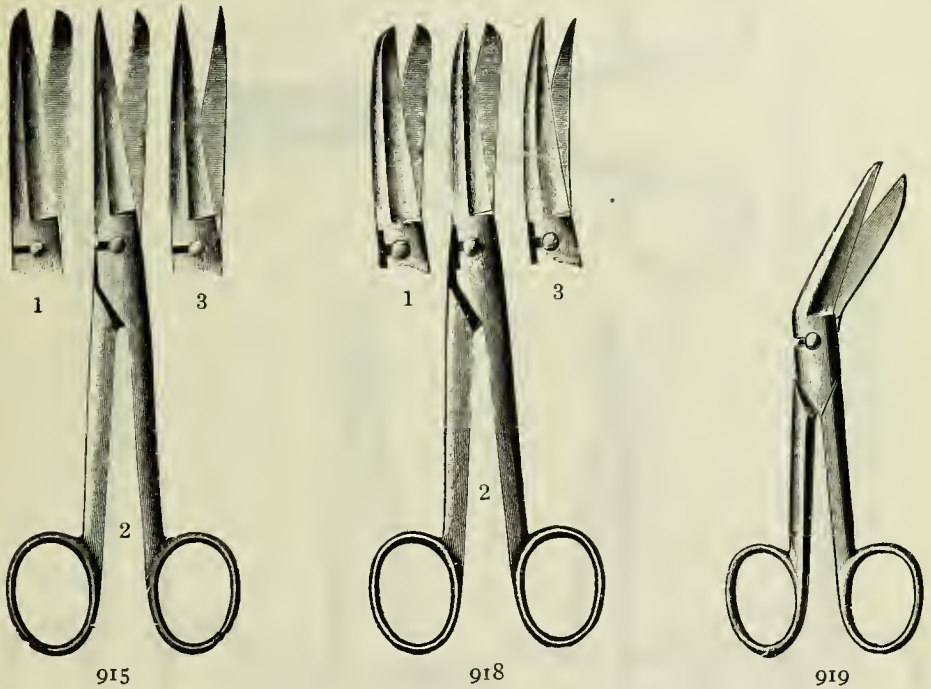
Our factory is equipped to repair, sharpen, hone, nickel-plate your instruments at shortest notice. For approximate costs of repair work, see page following index.

*All instruments illustrated are designated by a *.*

“Our own well-equipped factory is at your command for the production of any special instrument which you desire made. Our mechanics are experts in their various specialties. Our charges are as moderate as consistent with first-class work.”

General Operating Instruments.

SCISSORS.



Operating Scissors, of best quality, with either aseptic joint or screw joint. They are far superior to scissors usually sold by others at slightly lower prices.

	Scissors, straight, 4 inch, with points No. 1, 2 or 3	\$0 65
915.*	“ “ 4½ “ “ “ “	70
	“ “ 5 “ “ “ “	75
	“ “ 5½ “ “ “ “	80
	“ “ 6 “ “ “ “	85
	“ “ 6½ “ “ “ “	1 00
918.*	“ “ 7¼ “ “ “ “	1 25
	“ “ curved on flat, 4 inch, with points No. 1, 2 or 3	75
	“ “ “ “ 4½ “ “ “ “	80
	“ “ “ “ 5 “ “ “ “	85
	“ “ “ “ 5½ “ “ “ “	90
919.*	“ “ “ “ 6 “ “ “ “	1 00
	“ “ “ “ 6½ “ “ “ “	1 20
	“ “ “ “ 7¼ “ “ “ “	1 50
	“ “ angular, 4½ inch	85
	“ “ “ 5 “ “ “ “	90
	“ “ 5½ “ “ “ “	1 00
	“ “ 6 “ “ “ “	1 10

920. Operating Scissors, German Hospital—Philadelphia—special, hand forged, screw joint, 5½ inch, straight 2 00

920a. Operating Scissors, German Hospital—Philadelphia—special, hand forged, screw joint, 5½ inch, curved 2 25

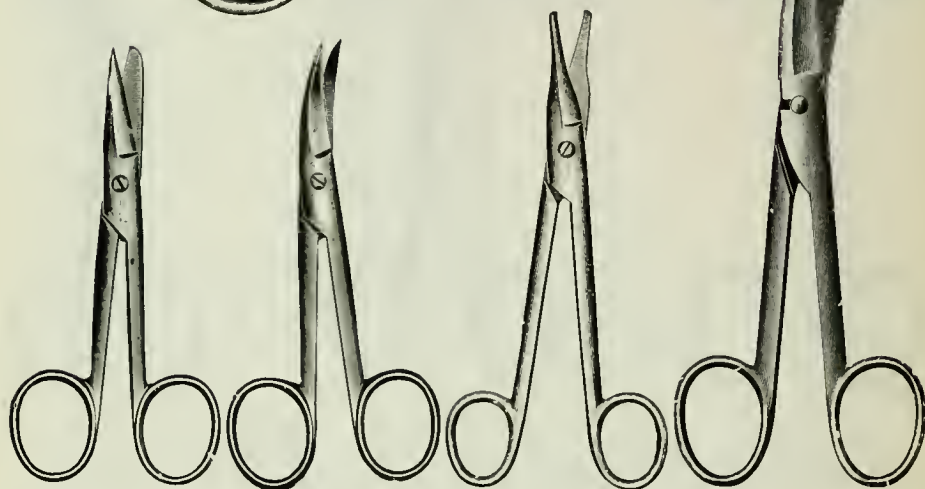
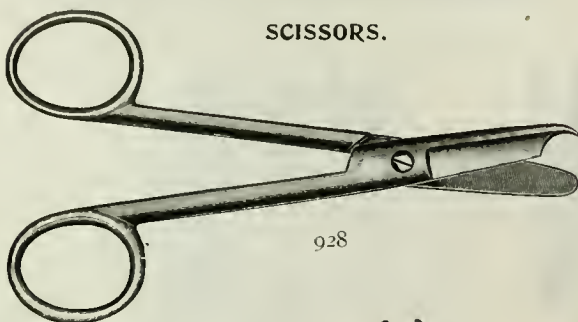
When ordering specify points desired as illustrated: No. 1, both points blunt; No. 2, one sharp point and one blunt point; No. 3, both points sharp; also specify whether desired with separable or with screw joint.

*All instruments illustrated are designated by a *.*

“The name LENTZ on any instrument is to you a guarantee of superior quality and absolute reliability.”

General Operating Instruments.

SCISSORS.



	924	925	926	921	
921.*	Scissors, curved sideways, both points either sharp or blunt,			5½ inch	\$1 25
921.*				6 "	I 50
922.	Artery, straight, with long probe point				I 25
923.	" " angular, " " " "				I 50
924.*	" " Mayo's, straight, 5 inch				90
	" " " " 5½ "				I 00
	" " " " 6 "				I 10
	" " " " 6½ "				I 25
925.*	" " " " curved on flat, 5 inch				I 10
	" " " " " 5½ "				I 20
	" " " " " 6 "				I 35
	" " " " " 6½ "				I 50

When ordering specify points desired; both points blunt; one sharp point and one blunt point; or both points sharp.

926.*	{	Scissors, Mayo's, dissecting, straight, 5½ inch	I 50
		" " " " 6½ "	I 75
927.	{	" " " " curved on flat, 5½ inch	I 50
		" " " " " 6½ "	I 75

Mayo's Scissors are heavier and the blades shorter than the regular scissors listed on the previous page. They will therefore not "feather."

They are forged from the best grade of English steel by skilled workmen, and the surgeon may rely absolutely upon their quality. They are all furnished with the screw joint.

The Mayo's Dissecting Scissors have a conical shaped blunt point, which can be used as a tissue separator or dissector. They are of great practical utility in a large variety of operations, such as tubercular gland operations, breast operations, etc.

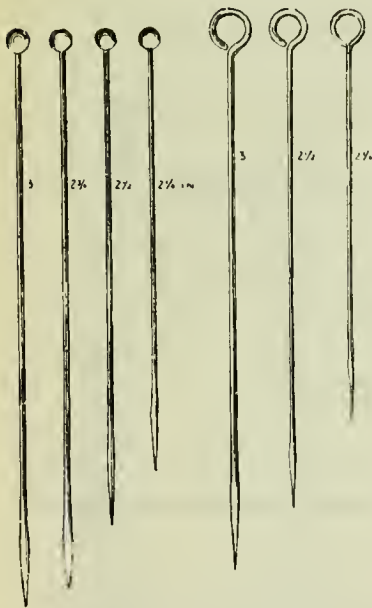
928.*	Stitch Scissors, screw joint, Littauer's, for cutting buried stitches without puncturing or abrasing the skin or tissue	I 25
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For other Scissors, see Gynecological Instruments.

All instruments illustrated are designated by a *.

General Operating Instruments.

HARE LIP.



939

938



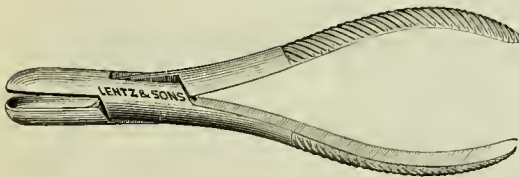
932



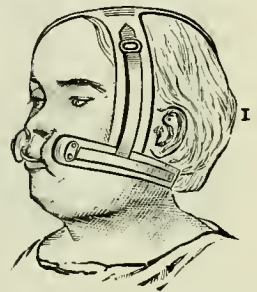
941



942



943



945

930.	Hare Lip Forceps, Hutchinson's	\$2 25
931.	" " " Smith's	3 50
932*.	" " " Ziegler's	2 25
933.	" " " parallel opening	6 50
934.	" " Scissors, angular	85c. and 95
935.	" " " straight	70c. " 80
936.	" " Scalpels	75c. " 1 00
937.	" " Pins, assorted	per hundred 15
938*.	" " " ring head, assorted, 2 to 3 inches	per dozen 60
939*.	" " " glass " " 2 to 3 "	" " 60
940.	" " " White's, octagon steel head	" " 1 75
941*.	" " " Silver Canula, with removable points	each 40
942*.	" " " Canulae Southey's, silver, set in aluminum case	3 00
943*.	Pin Cutting Forceps, aseptic	2 50
944.	Pin Conductor, Post's	75
945*.	Harelip Truss, Hainsby's (made to order)	6 00

(Extract from Dr. J. E. Erichsen's Book on the Science and Art of Surgery, vol. 2, p. 491.) If the fissure be wide and the child restless, so that there is danger of the parts being dragged upon during its screaming or crying, it is a very good thing to apply the spring check compressor invented by Hainsby. Indeed, whenever obtainable, this excellent contrivance should be employed. Its use adds greatly to the success of the operation.

MEASUREMENTS REQUIRED:—Circumference of face and neck taken in an oblique direction. Circumference of head under the chin and over the head.

*All instruments illustrated are designated by a *.*

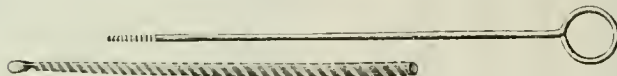
General Operating Instruments.
GENERAL SURGICAL AND BULLET PROBES.



955



961



964



965



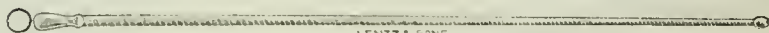
966



962-963



967b



967a

Probes for Pocket Cases, per pair.

955.* 3½ to 5 inch German silver, silver plated, 25c.; silver \$0 60

Probes with Eye, single.

956.	6 inch	German silver, silver plated, 20c.; silver	45
957.	7 "	" " " " 25c.; "	55
958.	8 "	" " " " 30c.; "	60
959.	9 "	" " " " 40c.; "	70
960.	10 "	" " " " 50c.; "	80

961.*	Bullet Probe, Nelaton's, porcelain head, with handle, 6 inch, plated	50
962.*	" " " " " on one end, 8 " "	60
963.*	" " " " " " " " 10 " "	75
964.*	" " " " " spiral, flexible, plated . . .	75
965.*	" " Hamilton's, with Director, in three parts, " . . .	1 00
966.*	" " Fluhrer's, aluminum	75
967.	Sinus Probe, Allis', copper, plated, pliable, with handle, 12 to 18 in. long,	each 1 50

967a.* Gall Duct Probe, spiral, Ochsner-Faenger's 1 25

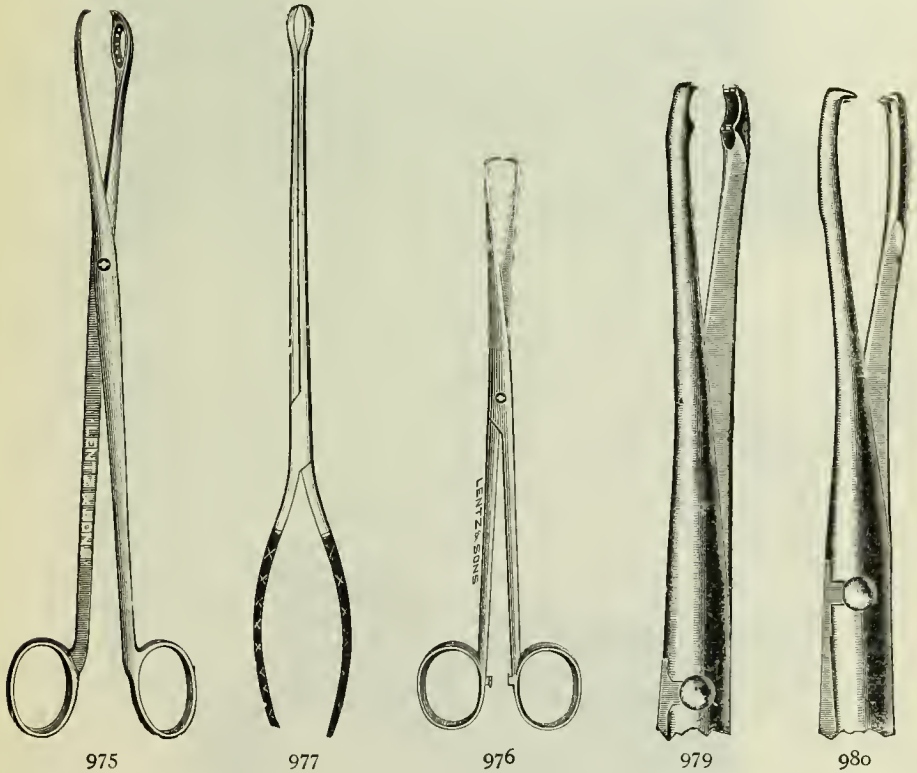
967b.* " " " and Scoop, block tin, Mayo's 1 00

968. Grooved Director, large and strong, plated. 6 in., 65c.; 8 in., 75c.; 10 in. 1 00

*All instruments illustrated are designated by a **

General Operating Instruments.

BULLET EXTRACTING INSTRUMENTS.



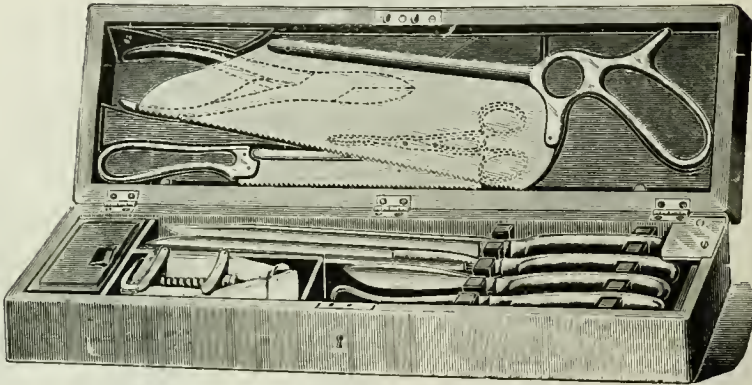
975.*	Bullet Extracting Forceps, Gross'	.....	.....	.....	.....	\$ 1 75
976.*	"	"	American	. . . without catch, \$1 50; with catch		1 75
977.*	"	"	U. S. A.	.....		1 75
978.	"	"	new pattern, with four prongs	. . .		2 50
979.*	"	"	"	" eight "	.....	2 75
980.*	"	"	"	" four sharp teeth	.....	2 00

With the adoption of small caliber fire-arms in the different armies of all countries, the bullet-extracting forceps had to be changed accordingly. The new patterns which we present herewith are especially designed for missiles of modern fire-arms, and deserve the attention of the surgical profession. The jaws are actual sizes.

981.	Bullet Screw	.....	.....	.....	.....	\$ 1 50
982	" Scoop	.....	.....	.....	.....	1 50

All instruments illustrated are designated by a *.

General Operating Cases.



1010

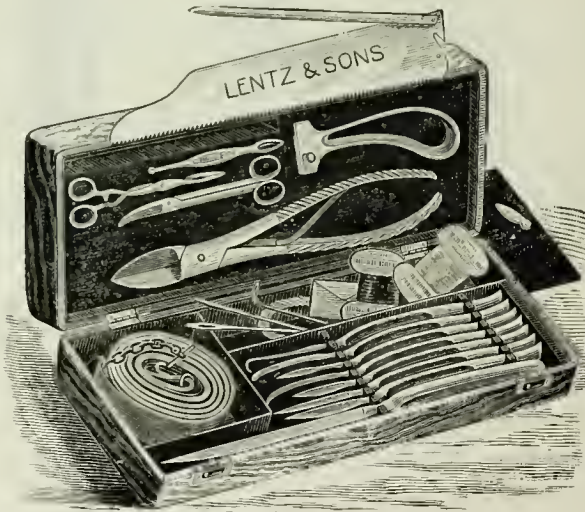
1010.* Amputating Case, No. 1.

Liston's Knife, medium.
 Catling, small.
 Scalpel.
 Tenaculum.

Artery Forceps, Wells'
 Metacarpal Saw.
 Bone Forceps.
 Capital Saw.

Tourniquet, Petit's or
 Esmarchs'.
 Needles and Silk.

In mahogany case, lined with leather; all aseptic instruments, knives with hollow metal handles \$22 50



1020

1020.* Lentz's Compact Operating Case, No. 10, Style A.

Amputating Knife, for leg
 and arm.
 Finger Knife.
 Hernia Knife.
 Bistoury, curved, sharp point.
 2 Scalpels.

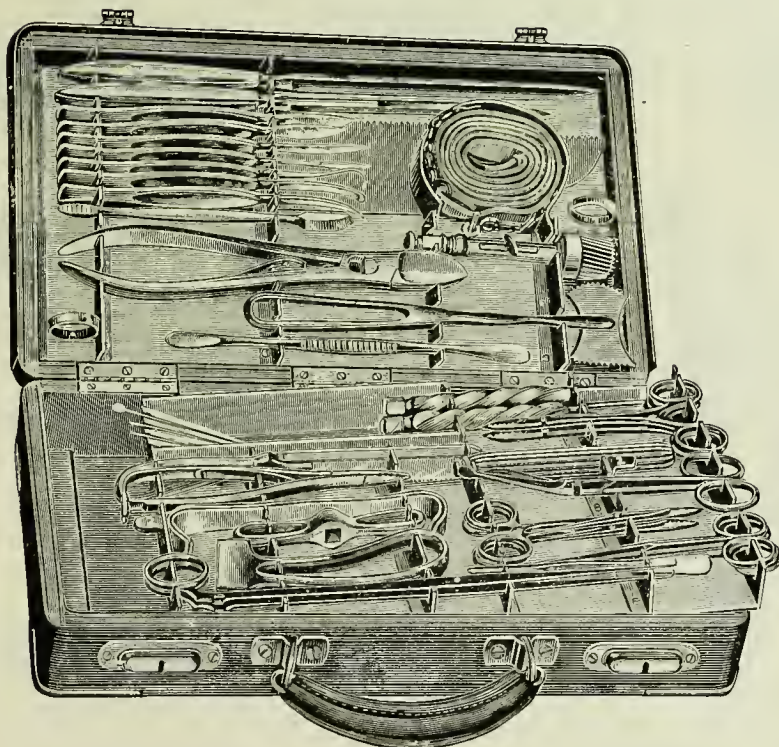
Tenotome.
 Tenaculum.
 Scissors, curved.
 Saw, 7½ inch blade.
 Liston's Bone Forceps.
 Artery and Needle Forceps,
 combined.

Pean's Artery Forceps.
 Esmarch's Tourniquet with
 chain.
 Director with Aneurism
 Needle.
 Pair Probes.
 Needle, Silk and Silver Wire.

All the Knives with hollow metal handles, Forceps, Scissors and Saw made so they can be separated easily

In mahogany case, lined with leather; knives in metal racks \$23 00

General Operating Cases.



1016

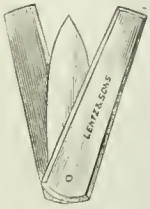
1016.* **Compact General Operating Case, No. 7.**

This is the most compact and aseptic case of its kind on the market. The instruments are arranged on two handsome, well made, removable metal racks, on which no solder is used, thus allowing sterilization at a very high temperature. The case itself is substantial, leather covered, with fine nickel trimmings and a very comfortable handle.

Large Amputating Saw, removable handle. Medium Amputating Knife. Small Catling Knife. Seven Minor Operating Knives, assorted blades to suit. Esmarch's Tourniquet. Galt's Trepine. Hey's Skull Saw. Trepine Elevator and Raspatory. Bone Forceps, with spring. Large size Double End Volkman's Bone Curette. Bone Chisel. Bone Gouge. Two Tait's Hemostatic Forceps. Trocar with reversible metal handle. Angular Bandage Shears. Two Pean's Hemostatic Forceps. Straight Scissors. Curved Scissors. Thumb Dressing Forceps. Metacarpal Saw, lifting back. Keen's Large Needle Holder. Pair of Parker's Retractors. American Bullet Forceps, with catch. Nelaton's Porcelain Head Bullet Probe. Pair of Plated Probes. Director and Aneurism Needle. Assortment of Needles and Silk.

All aseptic instruments, knives with hollow metal handles \$48 00

Pocket Case Instruments.



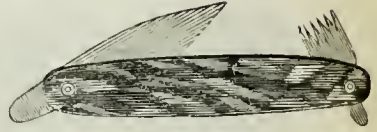
1035



1036



1037



1038



1041



1039



1040

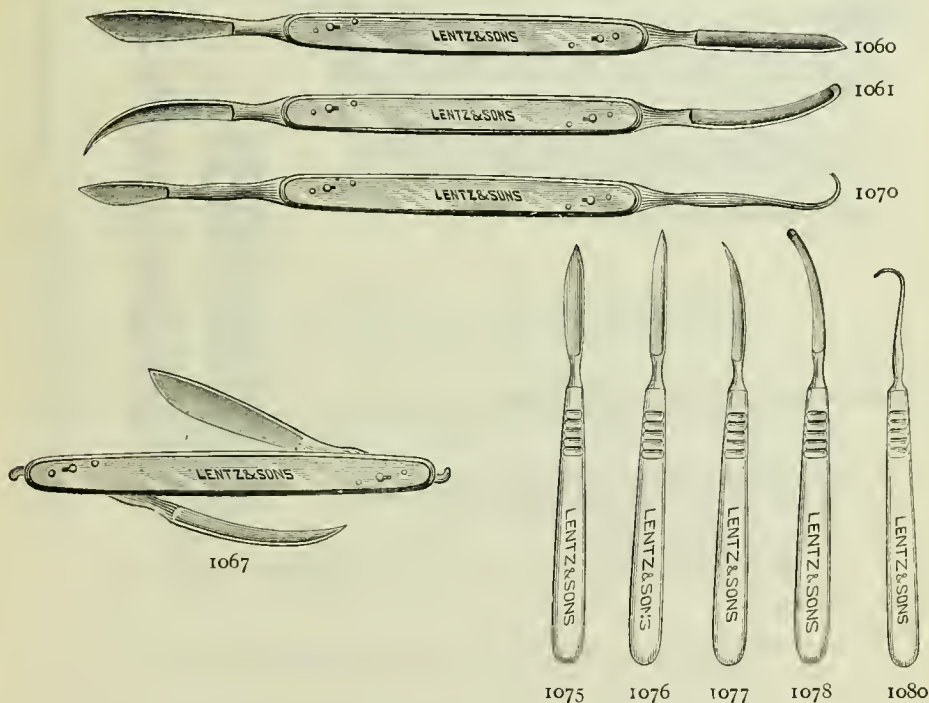


1042

1035.*	Lancet, Thumb, aluminum handle		\$ 0 50
1036.*	“ Abscess, “ “		50
1037.*	“ Vaccinating, spear point, aluminum handle		50
1038.*	“ “ with Scratcher “		75
1039.*	Vaccinating Scratcher, steel		25
1040.*	Vaccinator, Edson's; most simple, effective and cleanly instrument for vaccination ever devised. Ordinary sewing needles are used and thrown away. A stock of needles is carried in the handle		65
1041.*	Seton Needle, aluminum handle		85
1042.*	Scalpel		
1043.	Bistoury, curved, sharp pointed	} In hard rubber handles, each	50
1044.	“ “ probe “		
1045.	“ straight, sharp “		
1046.	Tenotome, “ “ “	} In aluminum handle without catch	75
1047.	Hernia Knife, Cooper's		
1048.	Tenaculum	} In aluminum handle with slide catch	1 25
1049.	Gum Lancet		
1050.	Finger Saw, in aluminum handle with slide catch		1 25
1051.	Hollow Needle for wire, in folding aluminum handle, slide catch		1 25
1052.	Perineal Needle, “ “ “ “		1 25
1053.	Vaccine Points, ivory, package of ten points		1 00
1054.	“ Tubes, package of ten tubes		1 00

All instruments illustrated are designated by a *.

Pocket Case Instruments.



1060.*	Scalpel and straight Bistoury	
1061.*	Bistoury, sharp and probe pointed	
1062.	" curved, sharp pt. and Tenotome	
1063.	" " probe pt. and Gum Lancet	In shell handles with slide catches
1064.	Tenotome and Gum Lancet	each \$ 1 75
1065.	Tenaculum and Gum Lancet	
1066.	Scalpel and Tenotome	In aluminum handles with slide catches
1067.*	" and Bistoury, curved, sharp point	each 2 00
1068.	Bistoury, curved, sharp, and Bistoury straight	
1069.	" straight, sharp, and Tenotome	In aluminum handles without catches
1070.*	Tenotome and Tenaculum	each 1 50
1071.	Gum Lancet and Hollow Needle	

Any other combination that may be desired supplied at same prices.

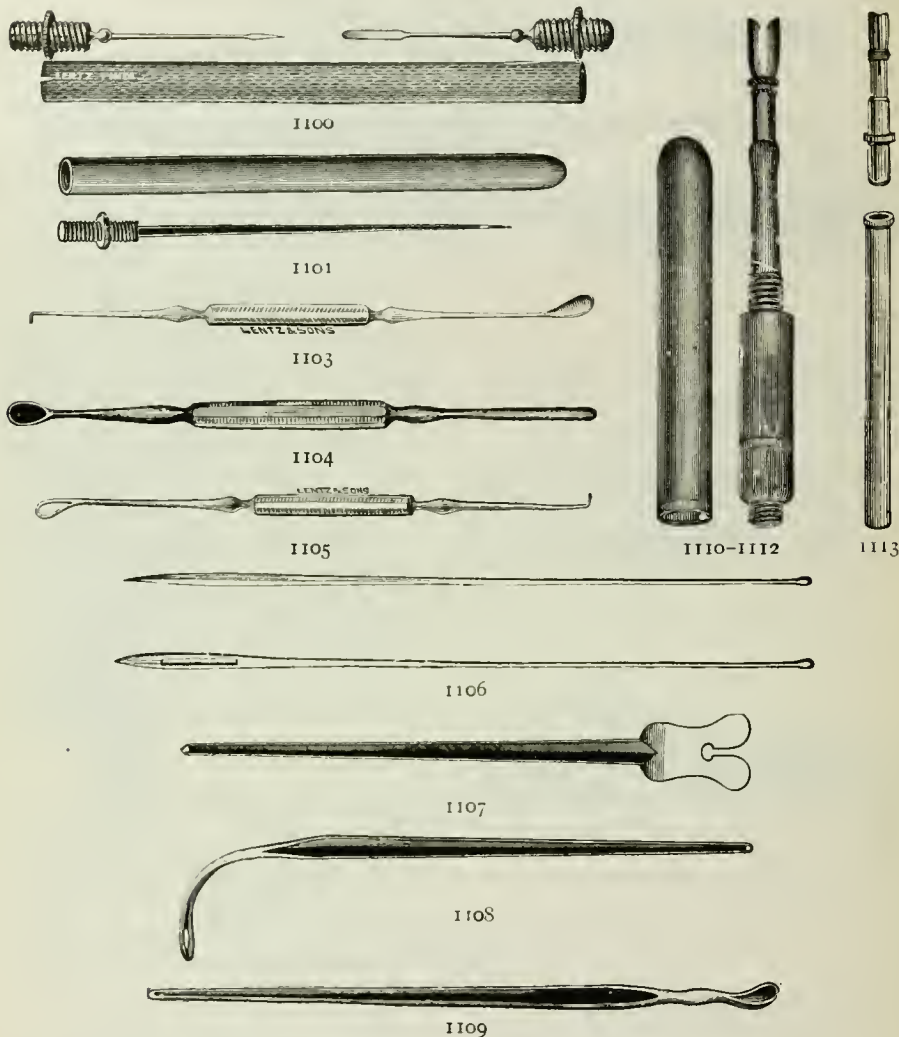
LITTLE'S ASEPTIC POCKET CASE INSTRUMENTS, ALL STEEL, NICKEL-PLATED.

1075.*	Scalpel, 2 sizes	\$ 0 75
1076.*	Bistoury, straight	75
1077.*	" curved, sharp point	75
1078.*	" " probe point	75
1079.	Tenotome	75
1080.*	Tenaculum	75
1081.	Aneurism Needle	75
1082.	Finger Saw	1 00
1083.	Curette, Volkman's pattern, oval or round spoon	75

These instruments are small enough for pocket cases, and handles are thin and light.

*All instruments illustrated are designated by a *.*

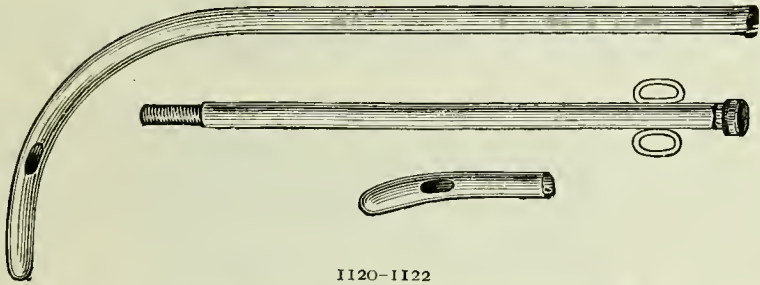
Pocket Case Instruments.



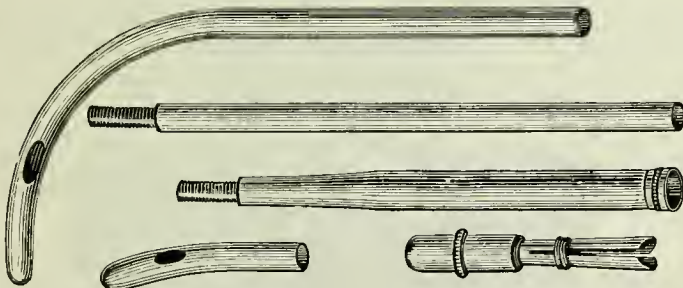
1100.*	Eye Spud and Needle, fine, in metal case		\$1	50	
1101.*	Exploring Needle, metal case			30	
1102.	“ “ with handle, all steel, 4 inches long			50	
1103.*	Ear Spoon and Hook, Gross’	brass n. p.,	30c.;	fine, steel n. p. 50	
1104.*	“ “ “ Spud, Gross’	“ “	35c.;	“ “ 6c	
1105.*	“ “ fenestrated and Hook	“ “	40c.;	“ “ 65	
1106.*	Probes, 3½ to 5 inch . per pair, silver plated, 25c.; aluminum, 30c.; silver 60				
1107.*	Director, with Tongue-tie	brass n. p.,	30c.;	fine, plated, 40c.;	“ 1 35
1108.*	“ “ Aneurism needle	“ “	35c.;	“ “ 1 25	
1109.*	“ “ Ear Spoon	“ “	35c.;	“ “ 45c.;	“ 1 25
1110.*	Caustic Holder, ebony, with silver burner			60	
1111.*	“ “ hard rubber, two sizes			short, 35c.;	long 45
1112.*	“ “ aluminum, two sizes			“ 75c.;	“ 1 25
1113.*	“ “ silver, two sizes			“ 90c.;	“ 1 50

All instruments illustrated are designated by a*.

Pocket Case Instruments.



1120-1122



1123-1125



1128



1132



1133

1120.*	Catheter, Combined male and female, silver	\$2 25
1121.*	" " " " " German silver, triple silver plated	1 15
1122.*	" " " " " brass, nickel plated	75
1123.*	" " " Parker's, brass, nickel plated	85
1124.*	" " " German silver, plated, with silver caustic holder	1 85
1125.*	" " " all silver	3 00
1126.	" " " German silver, plated, with silver cover over caustic holder	2 50
1127.	" " " female and child, plated	1 50
1128.*	" " female silver-plated, 35c.; silver	80
1129.	" " " round holes in end 35c.; "	80
1130.	Spatula with Tongue-tie, steel	50
1131.	" " folding, in aluminum handle, spring back	1 00
1132.*	Splinter Forceps, fine points 2½ inch, 40c.; 4 inch	50
1133.*	" " " Feilchenfeld's	1 00
1134	" " " Diamond shaped point	65

Dressing Forceps, see page 60.

Hemostatic Clamp Forceps, see pages 61 to 63.

Scissors for General Operating, see pages 67 and 68.

Needles, Silk, Silver Wire and Catgut, see Surgical Necessities.

Needle Holders, see Eye Instruments and Surgical Necessities.

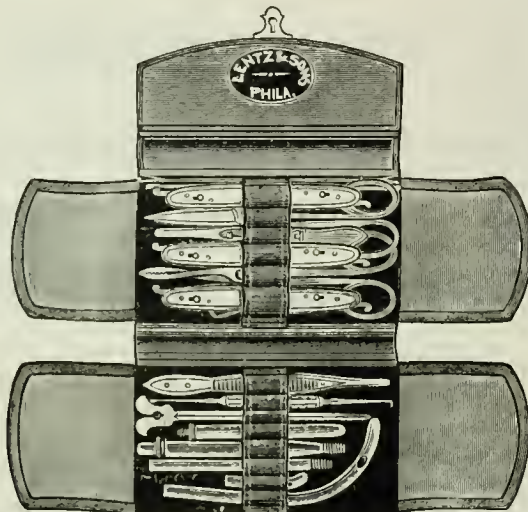
*All instruments illustrated are designated by a *.*

Pocket Instrument Cases.

From the fact that every doctor must at all times have with him his pocket instrument case, and because he uses these instruments more than any others, it may be either the most unsatisfactory or the most satisfactory article in his possession. Such cases, to be of value as pocket cases, should be neat and small, and the instruments they contain should be of slightly smaller size than regular operating instruments, and of the finest possible workmanship and pattern.

While the prices of many instruments have been more or less reduced through the use of modern and improved machinery and the manufacturing of larger quantities, yet a great many instruments are made of cheaper material, which, being nickel-plated, look nearly as good to the purchaser, and are sold by many as best quality.

We make only one quality of cutting instruments; but in addition to our catheters, probes, directors, etc., made of German silver and silver plated, we make these also of brass and nickel plated, and by the difference in the prices listed, it will be seen that any pocket case desired with this grade of instruments can be furnished at from 10 to 20 per cent less.



1140

1140.* Gross' Pocket Case, No. 1.

Scalpel and Straight Bistoury; Teutome and Tenaculum; Curved Bistoury, sharp pointed, and curved Bistoury, probe pointed; Artery and Needle Forceps combined; Spring Forceps; Scissors; Peau's Artery Forceps; Male and Female Catheter with Caustic Holder, silver-plated; Gross' Ear Scoop and Hook; Grooved Director; Exploring Needle; pair of Probes, silver-plated; six Needles and Silk.

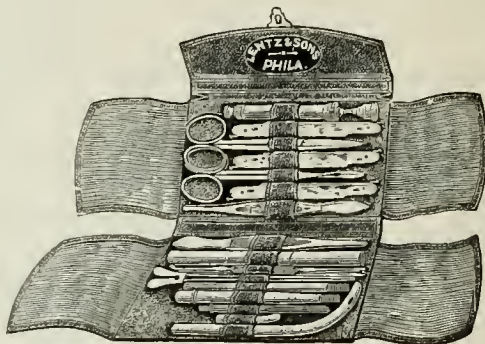
Double Knives, with aluminium handles, with slide catch, fine morocco case, lined with leather \$13 50

1141.* Gross' Improved Pocket Case, No. 2.

Scalpel and Straight Bistoury; Teno-
tome and Tenaculum; Curved Bistoury,
sharp pointed, and Curved Bistoury, probe
pointed; Artery and Needle Forceps
combined; Spring Forceps; Scissors;
Peau's Artery Forceps; Male and Female
Catheter with Caustic Holder, silver-
plated; Gross' Ear Scoop and Hook;
Grooved Director; Exploring Needle;
pair of Probes; six Needles and Silk.

Hicks' Inde-
structible Index Thermom-
eter; Silver Barrel Hypodermic Syringe,
with Needle in the end of piston rod.

Double Knives, with aluminium handles,
with slide catch, fine morocco case, lined
with leather \$16 50

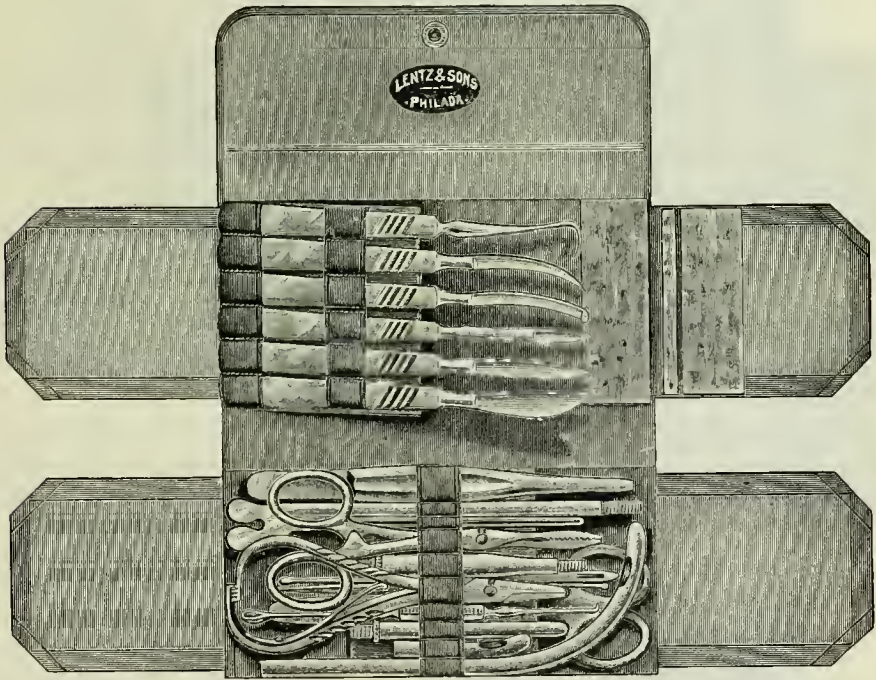


1141

*All instruments illustrated are designated by a *.*

Pocket Instrument Cases.

1142.* Gross' Aseptic Pocket Case, No. 3.



1142

This case contains the same number of instruments as the No. 1 Gross' Case, but the knives, instead of being double folding in handle, are single, and made of one piece of steel, and are held securely in their places by leather loops placed upon a tilting flap so that they may be easily taken from and returned to the case. The points lie between two strips of cork, which protect both the knives and the case.

Contents: Scalpel, straight; Bistouries, curved sharp, and curved probe; Tenotome; Tenaculum; Artery Forceps, fenestrated, combined with Needle Holder; Plain Spring Forceps; Pean's Artery Forceps; Scissors; Combined Male and Female Catheter, silver-plated, with silver Caustic Holder; Gross' Ear Spoon and Hook; pair of Probes; Grooved Director; Exploring Needle; six Needles and Silk.

In morocco case, leather lined \$10 50

1143. Lentz's Aseptic Pocket Case, No. 4.

Contents: Four Little's steel handle Knives, held in place by leather loops upon a tilting flap, as described above; Scissors; Hemostatic Forceps; Artery and Needle Forceps, slide catch; Combined Male and Female Catheter, silver plated, with silver Caustic Holder; Ear Spoon and Hook; Grooved Director; pair of Probes; six Needles and Silk.

In Russia calf or morocco leather case, leather lined \$8 50

*All instruments illustrated are designated by a *.*

Pocket Instrument Cases.

01144.* LITTLE'S ASEPTIC POCKET CASE No. 5a.

Contents :

Six Little's Knives.
Straight Scissors.
Thumb Forceps.
Needle Holder.
Hemostatic Forceps.
Ear Spoon and Hook.
Combined Catheter and
Caustic Holder.
Exploring Needle.
Grooved Director.
Two Probes.
Needles and Silk.

In morocco case. . . \$6 50

Same case without

Needle Holder . . . 5 50

01145.* VEST POCKET EMERGENCY CASE No. 6a.

Contents :

Two Little's Knives.
Straight Scissors.
Thumb Forceps.
Grooved Director.
Two Probes.
Gross' Ear Spoon and
Hook.
Needles and Silk.

In morocco case. . . \$3 25

01146.* VEST POCKET EMERGENCY CASE, ALL METAL, No. 7a.

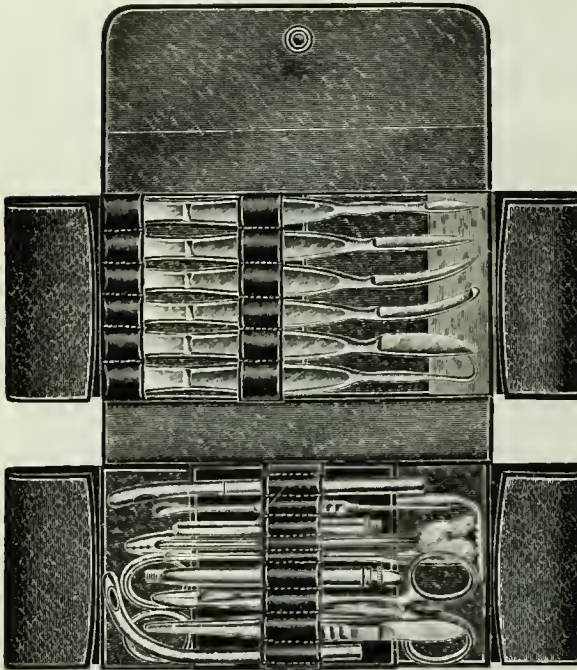
Contents :

Scalpel.
Curved Sharp-Pointed Bistoury.
Thumb Dressing Forceps.
Scissors.
Director, with Tongue Tie.
Two Probes.
Needles and Silk. \$4.50

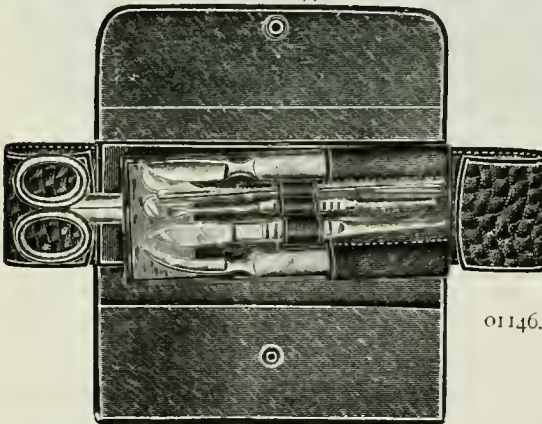
Same case with Hemostatic

Forceps in addition . . . \$5 25

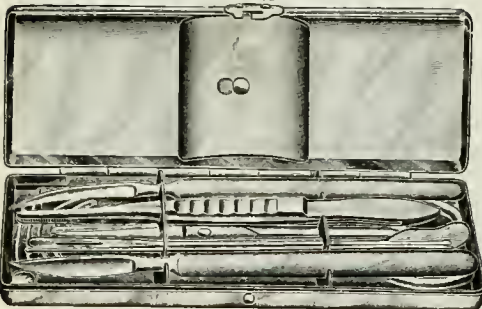
The case measures but 5 x 1 3/4 x 1/2 inches. It is made from German silver, finely finished and nickel-plated, with neat felt pouch. The knives are made from best steel, hand-forged and fully guaranteed.



01144



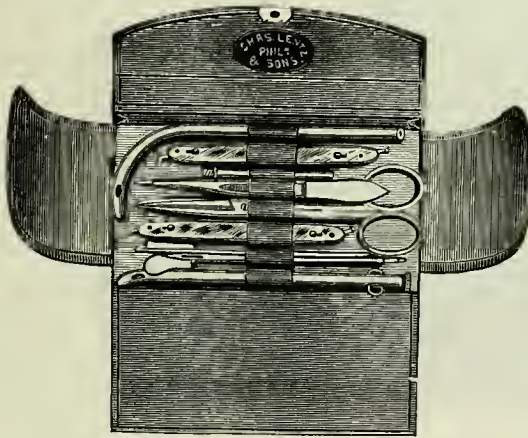
01145



01146

Pocket Instrument Cases,

1147.* **Pocket Case, No. 8.**



1147

Contains: Combined Catheter, Male and Female, silver plated; Scalpel and Straight Bistoury; Curved Bistoury and Tenotome; Scissors; Grooved Director; pair of Probes; Exploring Needle; Artery and Needle Forceps; Needles and Silk.

Double Knives with aluminum handles, with slide catch, one fold, morocco leather case \$9 00

1148. **Deaver's Pocket Case, No. 9.**

Contains: Scalpel and Straight Bistoury; Curved Bistoury, sharp point, and Curved Bistoury, probe point; Scissors; Dissecting Forceps; Exploring Needle; Director; Gross' Ear Spoon and Hook; Pean's Artery Clamp Forceps; pair of Probes; six Needles and Silk.

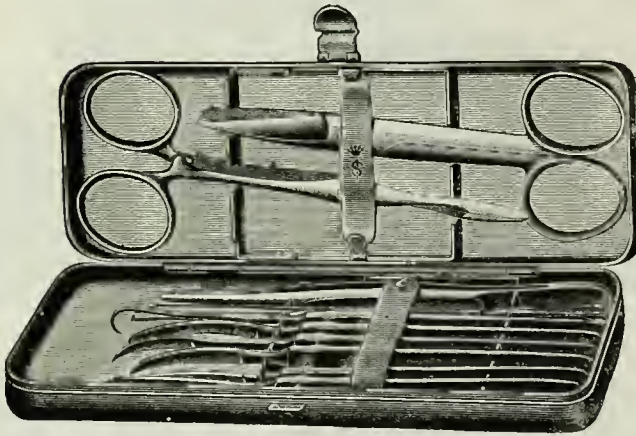
Double Knives with aluminum handles, with slide catch, one fold, morocco leather case, without lock 8 00

1149. **Empty Pocket Cases.**

Gross' No. 1, morocco, best quality	\$1 75	One-fold, No. 8	\$1 25
Gross' No. 2, " " "	2 25	Deaver's One-fold No. 9 . . .	1 25
Two-fold, " plain "	1 25	Nurse's No. 11	1 50
Gross' No. 3, " best "	1 75	" " 12	75
Gross' No. 3, calf " "	1 75	" " 13	1 00
Lentz's No. 4, morocco " "	1 50	" " 14	1 00
Little's No. 5, " " "	1 50	" " 15	1 25
Vest Pocket No. 6	1 00		

Pocket Instrument Cases.

1160.* Aseptic Surgical Pocket Instrument Set, No. 17.

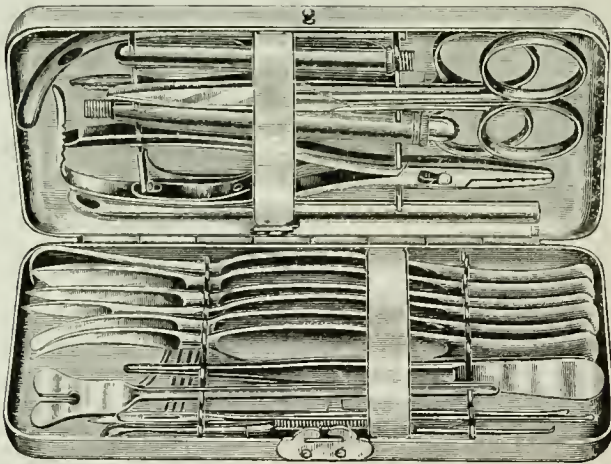


CONTAINS

- 6 assorted blades of Little's knives.
 - 1 spring dressing forceps.
 - 1 Pean's hemostatic forceps.
 - 1 straight surgical scissors.
 - 1 Gross' ear spoon and hook.
 - 1 pair probes.
- German silver case, 6 in. long x 2 in. wide x 7/8 in. high, in steel frame chamois bag . \$9 50

1160

1161.* Little's Aseptic Surgical Pocket Instrument Set, No. 18.



1161

Contains: 6 Special Fine Little's Knives; Scissors; Hemostatic Forceps; Parker's Catheter with Caustic Holder; Keen's Needle Holder; Gross' Ear Hook and Spoon; Exploring Needle; Flat End Director; pair of Probes; Spring Dressing Forceps; Needles and Silk \$12 00

The case is of German silver, finely polished and plated, with round corners. The racks can be removed intact. The case measures only 5 3/8 x 2 3/4 x 7/8 inches, in a neat felt pouch with metal clasp.

1162. Aseptic Surgical Pocket Instrument Set, No. 19.

Contains: 4 assorted Little's Knives; Spring Dressing Forceps; Hemostatic Forceps; Straight Scissors; Artery Forceps and Needle Holder; combined Director and Aneurism Needle; pair of Probes. German silver case, 6 in. long x 2 in. wide x 7/8 in. high, in steel frame chamois bag \$10 50

We can furnish almost any combination of Pocket Case Instruments desired in metal cases.

Pocket Instrument Cases.

1150.* PHILADELPHIA TRAINED NURSE CASE No. 11.

A compact case with all the essential instruments of our standard quality.

Contains:

- Bath Thermometer with glass ring top, registers up to 220°.
- One-minute Thermometer, in metal case.
- Dressing Forceps.
- Hemostatic Forceps.
- Scissors.
- Bandage Scissors.
- Pair Probes.
- Needles, Silk.
- Hypodermic Syringe, all metal, with needle in end of piston.
- Glass Catheter. Penknife, 2 blades.
- 2 Vials with Tablets.

Put up in fine seal grain black leather case, size 5³/₄ x 3³/₄ x 3/4 in.

PRICE, complete, \$6.75.



1150

1151.* NURSES' RED CROSS CHATELAINE CASE, No. 12.

Contains:

- Thumb Forceps.
- All Metal Hypodermic Syringe with Needles.
- Scissors.
- Probe with eye on one end.
- Clinical Thermometer in Metal Case.
- Female Catheter, Metal.

\$4.00.

1152.* NURSES' RED CROSS CHATELAINE CASE, No. 13.

Same contents as No. 1151, but case is made with a pocket and with a flap cover over the upper part

\$4 50.



1151



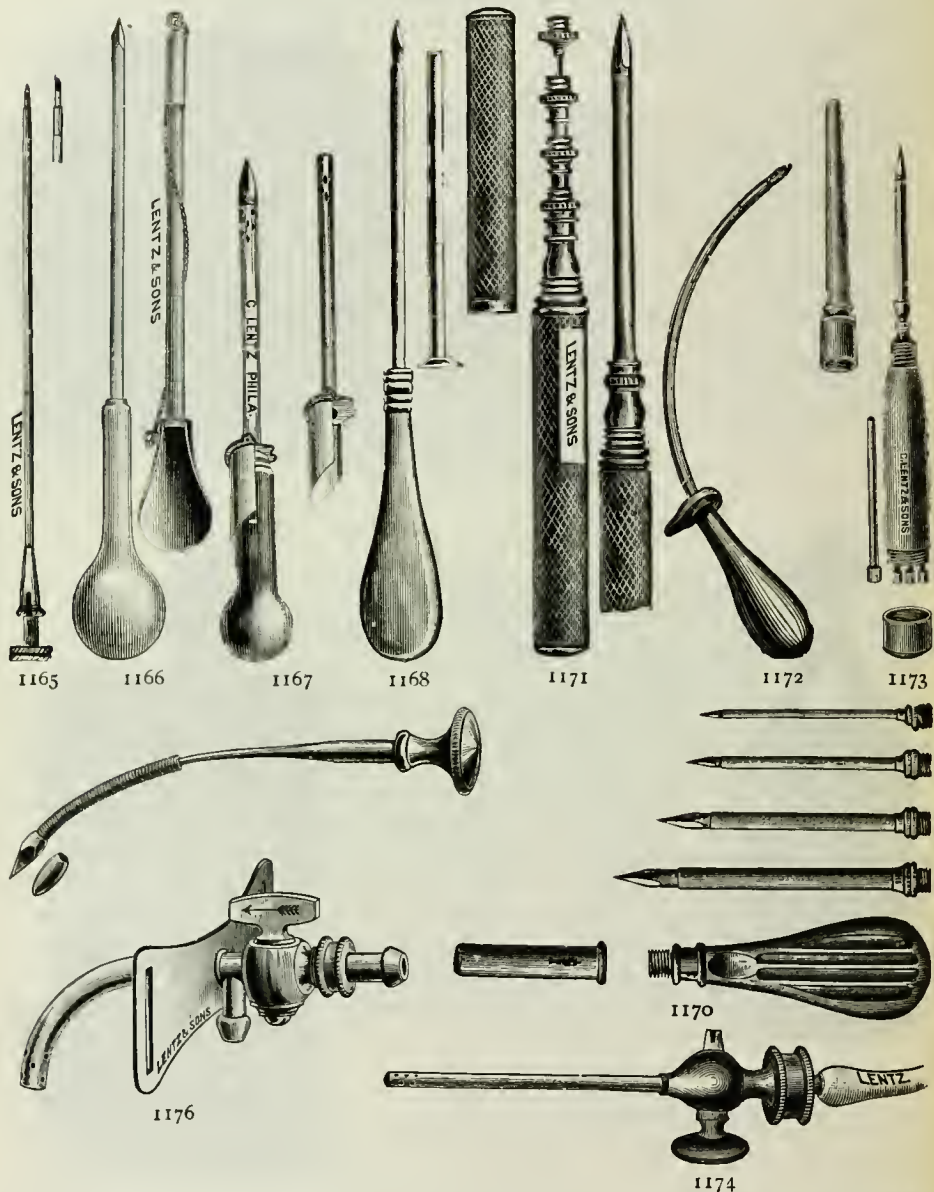
1152

- 1153. Nurses' Pocket Case, No. 14. Contains: Scissors, Spring Dressing Forceps, Hemostat, Director, Probe, Female Catheter, metal; one-minute Clinical Thermometer. In one-fold morocco case 3 50
- 1154. Nurses' Pocket Case, No. 15. Contains: Scissors, Spring Dressing Forceps, Hemostat, Scalpel and Bistoury, folding in aluminum handle; Female Catheter, silver plated; Probe, one-minute Thermometer. In one-fold morocco case 6 00

All instruments illustrated are designated by a *.

General Operating Instruments.

TROCARS.



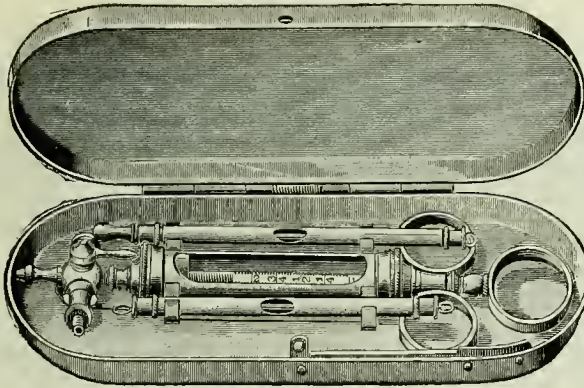
- 1165.* Trocar, Exploring, Silver Canula \$0 85
- 1166.* " metal handle, with nickel-plated Canula, three sizes each 80
- 1167.* " Birch's, metal handle, with nickel-plated Canula, three sizes 90

One inch from end of the Canula are many oval apertures to prevent cessation of flow by occlusion of intestine or omentum.

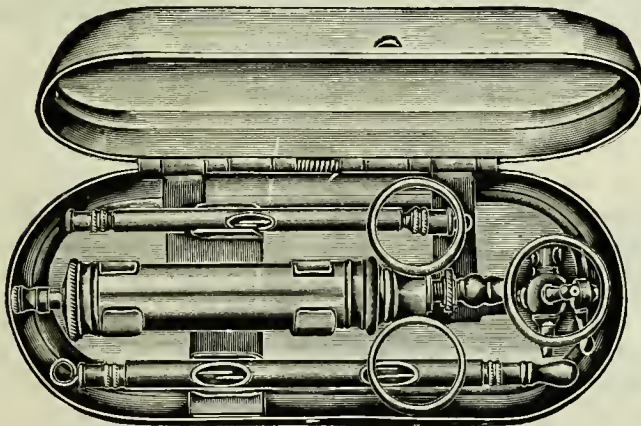
- 1168.* Trocar, with Snap Canula, nickel plated, three sizes \$1 00
- 1170.* " and Canula, set of four sizes, in metal handle and cover 3 00
- 1171.* " " " three " " pencil case 2 00
- 1172.* " " " curved, metal handle 1 50
- 1173.* " " four silver Canulas, Southey's, for Anasarca, in aluminum case 3 00
- 1174.* " " Canula, with stop-cock, Flint's, for Paracentesis Thoracis 2 75
- 1175.* " Pericardial, Roberts' 2 75
- 1176.* " and Canula, Franklin's, for Empyema 5 00

All instruments illustrated are designated by a *.

Aspirating Syringes.



1181

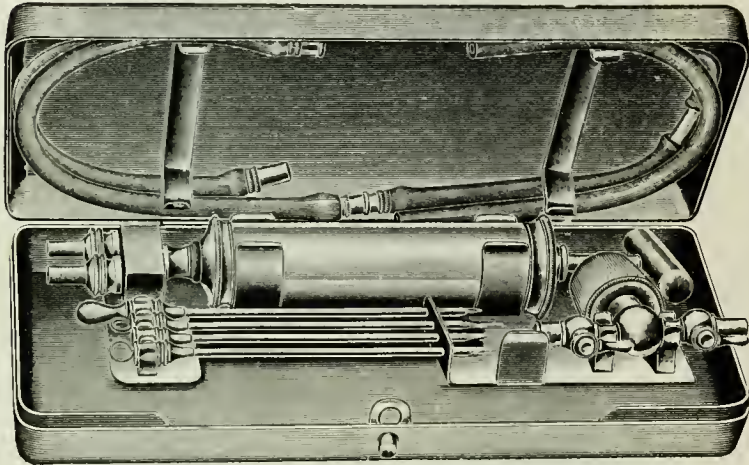


1182

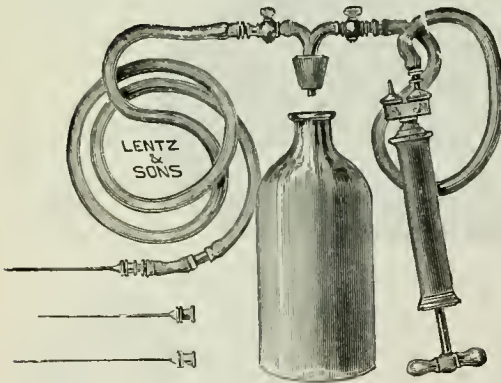
1180. Aspirating and Injecting Syringe, glass barrel, with leather expanding plungers; capacity, 2 drachms; including two-way stopcock, three assorted needles and one trocar; in leather lined morocco case . . \$2 50
- 1181.* Aspirating and Injecting Syringe, metal barrel, with leather expanding plunger; capacity, 2 drachms; including two-way stopcock, three assorted needles and one trocar; in nickel-plated metal case . . . 2 75
- 1182.* Aspirating and Injecting Syringe, all metal, with metal expanding plunger; capacity, 2 drachms; including two-way stopcock, three assorted needles and one trocar; in nickel-plated metal case . . . 3 50
1183. Aspirating Needles, universal thread, seamless steel, nickel plated, assorted lengths and gauges each 40
1184. Aspirating Trocar with Canula, universal thread, nickel plated 60

We repair all kind of Aspirators, can supply new parts, repair and sharpen needles and trocars. For approximate cost see page following index.

Aspirators.



1200-1202



1200-1202

The pump has two automatic metal valves, one the reverse of the other, which enables the operator to quickly change it from an exhaust to a force pump, thus converting it into an injector. The valves are brass, easily cleaned, and are not injured by coming in contact with liquids, as the fluid passes only through the needle, long rubber tube and stop-cock; the instrument is easily cleaned.

The universal rubber stopper fits an ordinary size bottle. All metal parts are finely nickel plated.

Potain's Aspirator, Comprising Metal Barrel Pump, Three Needles, One Trocar, Double Stop-cock, and Tubing with Metal Fittings, in Metal Case; Without Bottle.

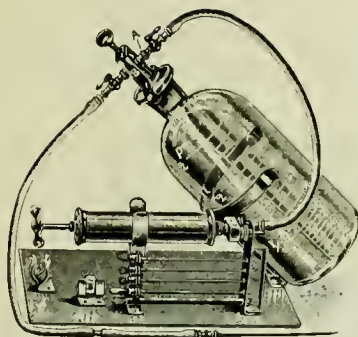
- 1200.* Potain's Aspirator, pump with expanding leather packing \$7 00
- 1201.* " " " " solid metal plunger 8 00
- 1202.* " " " " expanding metal plunger 8 75

For a more complete outfit, see Nos. 1203-1204, which include three trocars and canulæ, and three obturators.

*All instruments illustrated are designated by a *.*

Aspirators.

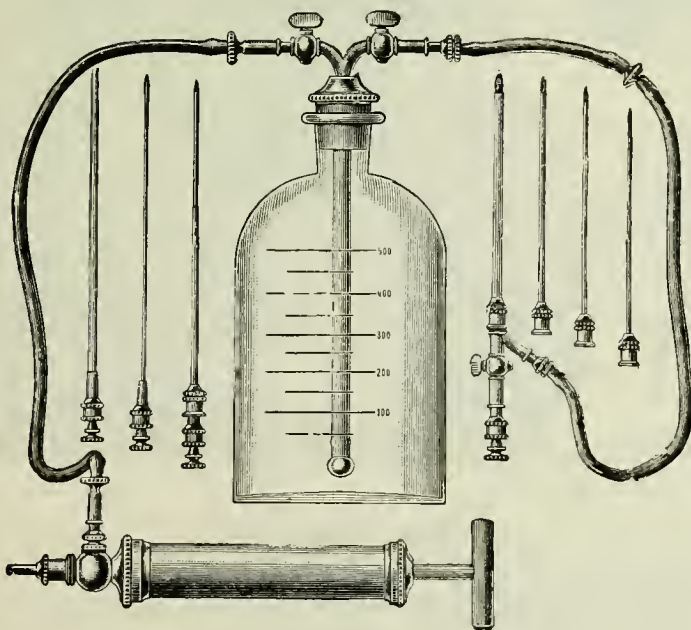
1199.* Potain's Aspirator, improved style, comprising metal barrel pump, three needles, one trocar, double stop-cock, tubing with metal fittings, and graduated bottle; all contained in a morocco covered case \$12 00



1199

This Aspirator is provided with an improved metal clamp for holding tight the stopper during injection; also with a graduated bottle which is so mounted on a metal plate that it may stand erect while in use and fold down for carrying.

The Aspirator, bottle and all the fittings may be removed intact from the case for use or for sterilization.



1203.

1203.* Aspirator, Potain's, with three Needles, three Trocars and Canula, with stop-cock and three obturators, in neat morocco leather case \$13 50
 1204. " " " in metal case, nickel plated 14 50

Large graduated bottle included, but not fitted in case.

This Aspirator is constructed in the same manner as Fig. 1200, but is more complete, having in addition to the three needles, three Billroth's improved Trocars, with a Stop-cock for performing aspiration without permitting the entrance of air into the cavity. The Stop-cock is connected to the Canula and the Trocar passes through the key of the Stop-cock. The Aspirator is connected to the socket at the side (as shown in illustration). After the insertion of the Trocar the stilet can be withdrawn and replaced by a blunt Obturator, whose packing box is connected by a screw thread to the stop-cock and prevents admission of air while the Obturator is being moved in either direction through the stop-cock and canula for the removal of obstructions.

The Obturator is prevented from being wholly withdrawn by a shoulder near the end, which arrests it after it has been drawn beyond the key of the stop-cock.

*All instruments illustrated are designated by a *.*

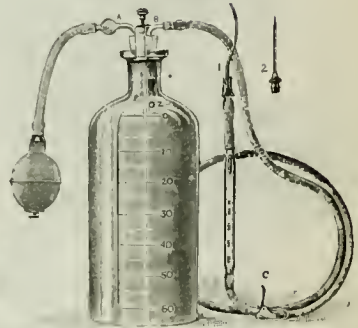
Infusion Apparatus.



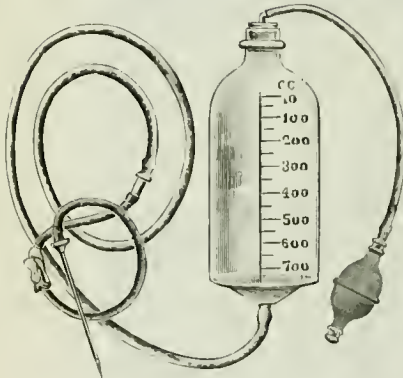
1205



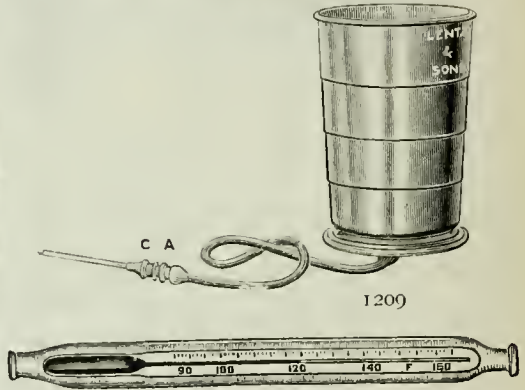
1211



1207



1206



1209



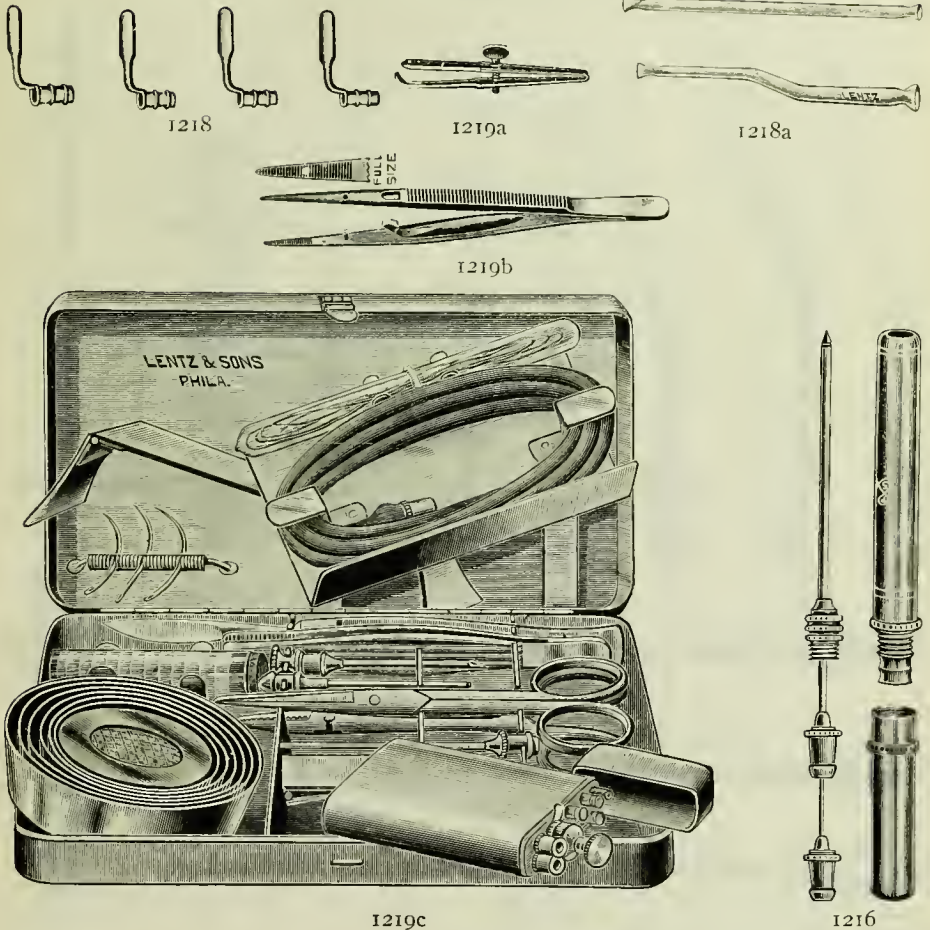
1212

Infusion Apparatus.

1205.*	Lentz's, with reservoir fitted into a metal frame, with tubing, one trocar and two canulae (Fig. 1211)	\$2 25
1206.*	Kelly's, with graduated reservoir, fitted with stopper and force bulb, tubing and canula	3 75
1207.*	Fowler's, with graduated reservoir, fitted with stopper which is secured by a simple clamp device; two glass tubes pass through the stopper, one reaching to the bottom of the bottle; a force bulb is attached to the short tube and to the long tube a length of rubber tubing with a glass tube, inside of which a thermometer is placed; a curved and a straight metal canula supplied	5 75
1208.	Esmarch's, graduated glass cylinder, capacity 300 cc., with tubing and canula	2 50
1209.*	Northrop's, 6 oz. collapsible metal cup, with tubing and set of trocar and canulae (Fig. 1211) in nickel plated metal case	3 00
1210.	Transfusion Apparatus, Aveling's	4 50
1211.*	Infusion Set, Collin's, trocar, two canulae and obturator	1 25
1212.*	Thermometer for determining the temperature of salt solution being injected	1 50
1213.	Infusion Reservoir only, Kelly's	1 50
1214.	" " " Fowler's	1 00

*All instruments illustrated are designated by a *.*

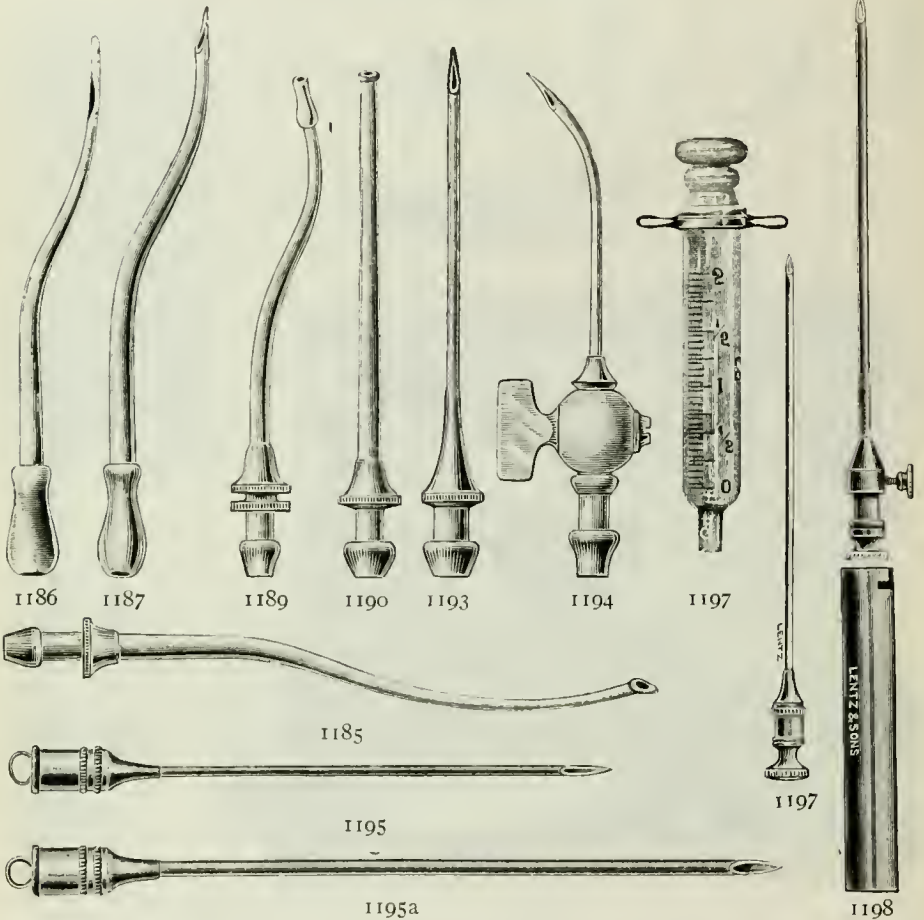
Infusion Apparatus.



- 1215. Infusion Apparatus, Webster's, in metal case \$2 75
 - 1216.* " Set, Fowler's, two infusion needles, trocar and canula, all combined in pencil case; needles will fit all regular syringes; suitable for pocket case 1 25
 - 1217. Transfusion Canulae, Elsberg's, for the direct transfusion of blood; with three hooks, in fine leather case 10 50
 - 1218.* " " Crile's, silver, set of four, in case 3 50
 - 1218a.* " " Brewer's, glass; straight, each 20c.; bent, each 30c.; set of four 75
 - 1219. Carotid Artery Clamp, Crile's, 3 inches long, straight 1 00
 - 1219a.* Radial " " 1 1/2 " " " " 1 00
 - 1219b.* Transfusion Hemostat, Crile's, used in pulling the arteries through the canulae 1 75
 - 1219c.* Intravenous and Emergency Set, John M. Fisher's 19 50
- Contains:—Scalpel, Scissors, Spring Dressing Forceps, Hemostat, Hypodermic Syringe, Glass Tube with Catgut, Chromicized Catgut, dry, Silkworm Gut, Suture Needles, Alcohol Lamp, two Folding Stands, vial of Saline Tablets, 10 oz. Collapsible Cup with tubing, set of Collin's Trocar and Canulae, Hypodermoclysis Needle.

Very compactly fitted into a German silver case, size 7 x 4 x 1 inches. The metal rack is removable, so the case can be used for sterilizing the instruments by setting it on the stands and placing lamp underneath.

Infusion and Hypodermoclysis Needles.



	1185								
		1186							
			1187						
				1188					
					1189				
						1190			
							1191		
								1192	
									1193
									1194
									1195
									1195a
1185.*	Infusion Needle, double curve, with flared point								\$0 85
1186.*	“ “ “ “ blunt								50
1187.*	“ “ “ “ sharp								50
1188.	“ “ “ “ blunt, Fowler's								60
1189.*	“ “ “ “ blunt, Webster's								30
1190.*	“ “ straight								25
1191.	“ “ steel, sharp, 5 inches long, Kelly's								60
1192.	“ Set, Collin's, Trocar and Canulae (Fig. 1211, page 88)								1 25
1193.*	Hypodermoclysis Needle, steel, three lengths, 2 in., 2½ in., 3 in., doz., \$3 50; each								35
1194.*	“ “ “ “ with stop-cock, H. L. Northrop's								1 35
1195.*	Aspirating Needle, steel, short, three sizes								30
1195a.*	“ “ “ long, “								50
1196.	Syringe for Spinal Anesthesia, Bier's, 2 c.c. capacity, with two long steel needles, each with obturator, in metal case								7 00
1197.*	“ “ “ “ W. W. Babcock's, all glass, 2 c.c. capacity, with platinum needle 3½ inches long with obturator								6 50
1198.*	Trocar for Lumbar Puncture, S. W. Sappington's, long steel needle with obturator								1 50
1199.	Needle “ “ “ steel, with obturator, three sizes								1 25

*All instruments illustrated are designated by a **

Section II.

**Hospital, Operating Room and Office
Furniture and Supplies.
Patients' Necessities.**

The Operating and Office Tables which we list in the following pages are constructed of Seamless Steel Tubing, securely and neatly fastened with steel pins and brazed. This is the method employed in the manufacture of high grade bicycle frames, and it makes the finished article at once aseptic, sightly and strong.

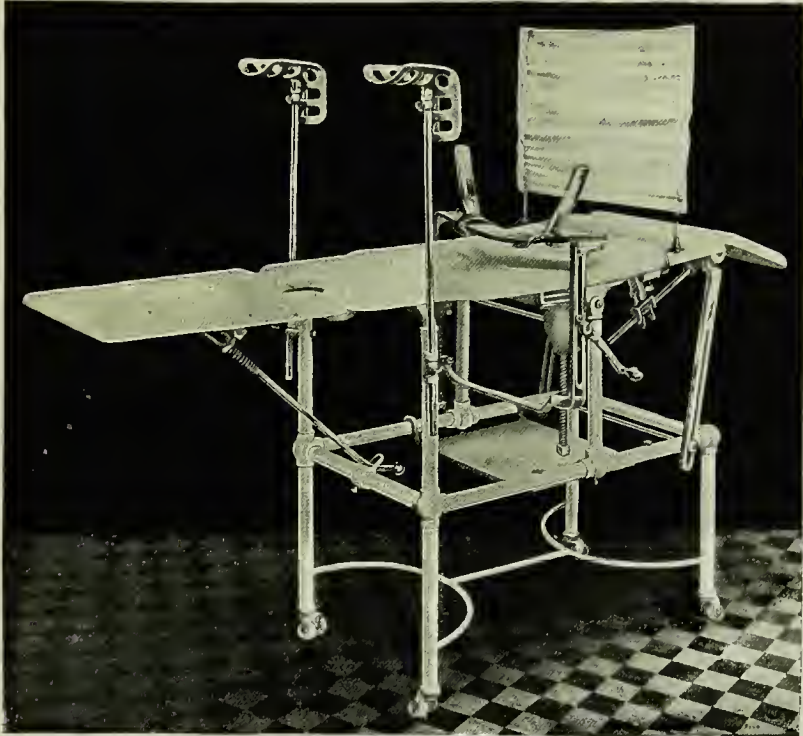
The enamel used is the very best, made to our order. Several coatings of it are applied with the brush, *not dipped*, each coating being rubbed smooth with pumice stone, and afterwards baked in a high temperature. The result is a solid coating of enamel, almost as glossy and firm as a porcelain surface.

The glass plates supplied are the best quality of selected Polished Plate with polished edges, and are more than sufficiently strong to withstand the usage they will be subjected to.

Besides our own manufacture, we carry the products of the most renowned factories which make a specialty of high class aseptic furniture. We warrant their goods the same as we do our own. The porcelain enamel table tops have all the aseptic properties of glass. They are made of special iron castings and coated with pure porcelain, which is vitrified and burnt onto the iron at a temperature of 1600° F. They will remain snow-white, and are practically indestructible, being temperature, ether and chloroform-proof.

Our premises are very roomy, enabling us to carry a very complete stock, so that we can fill all orders promptly. This refers especially also to Invalid Beds, Bath Tubs, and other Sick-Room Supplies, which are always kept ready for immediate shipment.

Hospital and Operating Furniture.

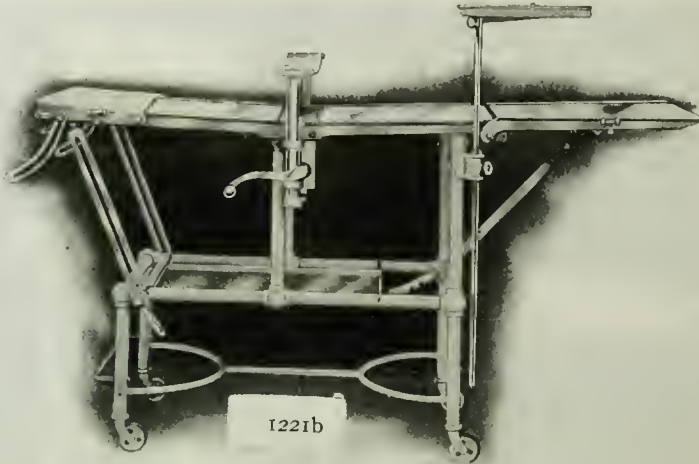


1220a

- | | | |
|---------|--|----------|
| 1220a.* | Operating Table, improved Baldwin's | \$130 00 |
| | <p>In this design we show the latest type of Baldwin table, constructed most carefully and most substantially throughout and white enameled. The top is thickly porcelain pure white enamel covered and hardened at high temperature, rendering it indestructible and aseptic.</p> <p>The table offers the reverse Trendelenburg position, and includes the improved Lilienthal gallstone, stomach and kidney bridge elevator with bronze gearings, the Cunningham sliding kidney posts, the Bierhoff adjustable knee crutches, an anesthesia screen with washable panel, and a shelf for drain pan.</p> | |
| 1220b. | Operating Table, improved Baldwin's, like Fig. 1220a, with the addition of leg-holders with straps, gynecological stirrups, adjustable shoulder supports, and a Mayo's instrument table with floor stand | 150 00 |
| 1220c. | Operating Table, Baldwin's, similar to Fig. 1220a, porcelain enamel top, with the improved Lilienthal gallstone, stomach and kidney bridge elevator, leg-holders with straps, adjustable shoulder supports, and a shelf for drain pan; choice of either plain top, or with longitudinal or with lateral drain | 125 00 |
| 1220d. | Operating Table, Baldwin's, porcelain enamel top, with leg-holders with straps, adjustable shoulder supports and shelf for drain pan; choice of either plain top, or with longitudinal or with lateral drain | 85 00 |
| 1221a. | Instrument Rack, Mayo's, with porcelain tray and nickel-plated rod, a, with adjustable collar for attaching to almost any operating table | 7 50 |
| | b, with white enameled floor stand | 9 00 |

*All articles illustrated are designated by a **

Hospital and Operating Room Furniture.



1221b

1221b.* Operating Table, "Minnesota;" nickel plated metal top; white enameled frame, mounted on large rubber casters \$150 00
 This style of operating table is in use at St. Mary's Hospital, Rochester, Minn. It is constructed first-class throughout and offers practically every position necessary in modern surgery. It is provided with adjustable body elevator, goitre attachment, adjustable head piece, leg holders, Mayo's instrument rack, made of aluminum, and anesthesia screen.



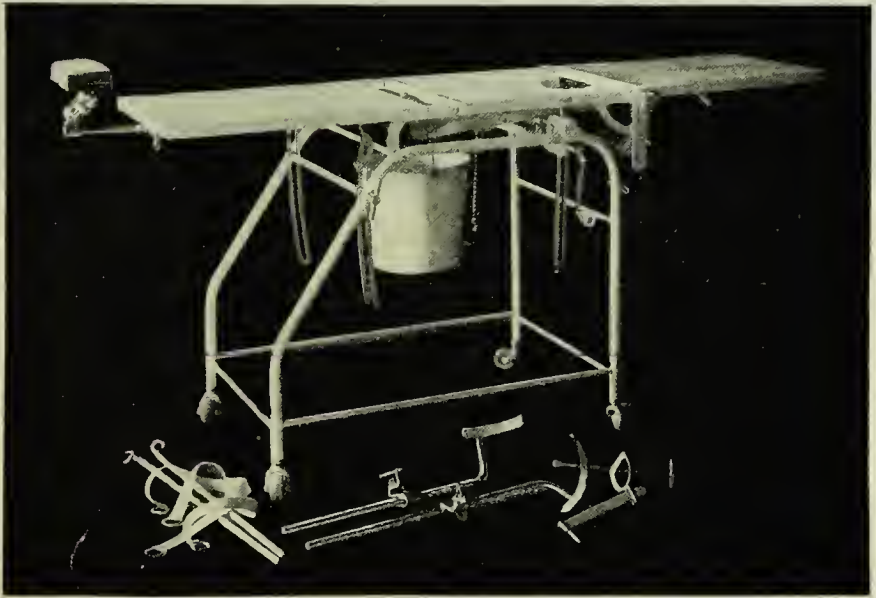
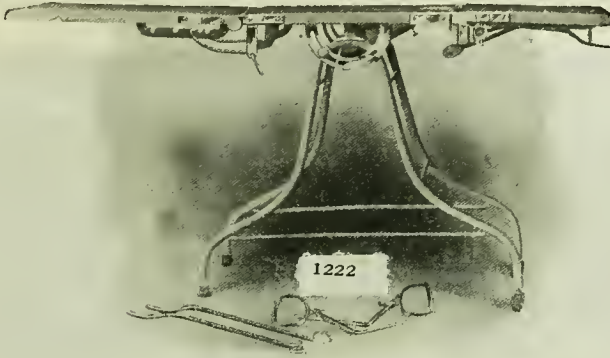
1220e

1220e.* Operating Table, improved Baldwin's, porcelain enamel top, white enameled frame, with either gynecological stirrups or leg holders with straps, instrument shelf and shelf for drain pan. The various positions obtainable include the reverse Trendelenburg \$80 00

1220f. Operating Table, Baldwin's; like Fig. 1220e, with the addition of the improved Lilienthal gallstone, stomach and kidney bridge elevator with bronze gearings, and of shoulder supports \$115 00

*All articles illustrated are designated by a **

Hospital, Operating Room and Office Furniture.



1226

1222.* Operating Table, "University;" all metal, white enameled, with stirrups and leg-holders \$37 50

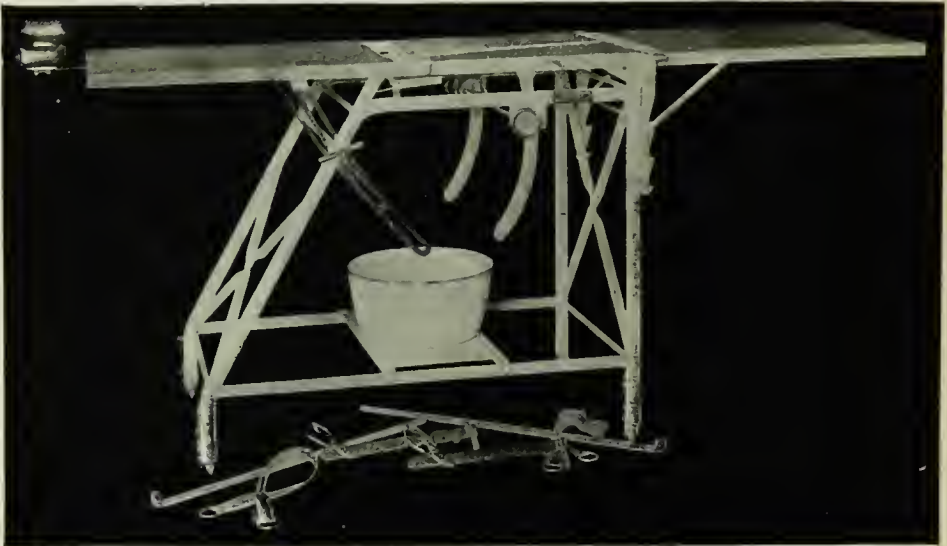
Of light but substantial construction. The top is composed of three parts, which can be raised or lowered together or independent of each other, permitting the ready selection of either of a number of desirable positions. The end sections are made of sheet steel, the center one of malleable iron; the foot section is removable.

1226.* Operating Table and Chair combined, "Moscow;" all metal, white enameled, with head-rest, shoulder supports, stirrups and leg-holders \$45 00

In the "Moscow" we have an up-to-date, substantial and practical operating table at a medium price, and suitable for either operating room or office. It is constructed of strong seamless steel tubing, well braced, with 2½-in. rubber casters. The top is of heavy steel sheeting, in three parts; the center one is slotted for drainage, with a U-shaped cut-out at front, allowing freedom in the use of the speculum or other instruments in vaginal and rectal examinations. The foot-piece can be easily detached or attached, and is adjustable. The Trendelenburg position is obtained by means of a crank device.

*All articles illustrated are designated by a **

Hospital, Operating Room and Office Furniture.



1227

- 1227.* Operating Table and Chair combined, "Columbus," all metal, white enameled; including stirrups and leg-holders \$25 00
 Cushion of imitation leather, two sections, \$5 00 extra.

The construction and working of this table is as simple as it is possible to make it; no part is likely to get out of repair, and it has no complicated mechanism whatever. The various positions are obtained quickly, easily, and with very simple contrivance. The workmanship and finish are first-class in every respect. Weight about 100 pounds; the table is therefore readily transportable for use at patient's home.

- 1235. Operating Table, "Columbus"-Baldwin, all metal, white enameled; simple of construction, with stirrups and leg-holders 55 00
- 1236. Operating Table, Isaacs', all metal, white enameled; similar in construction to No. 1226, with shoulder supports and stirrups 40 00

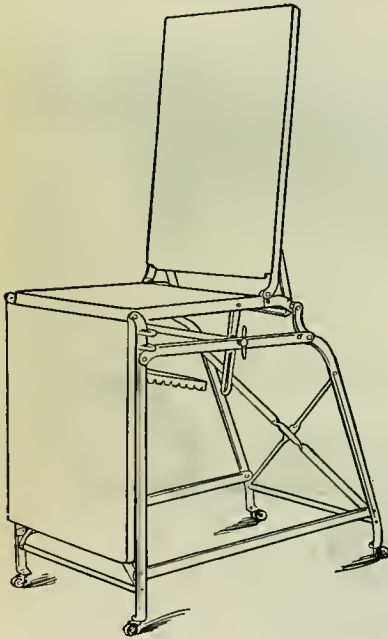
A large and well-selected line of Hospital and Office Furniture always in stock.

Visit our extensive salesrooms.
 Special catalogues are furnished on application.

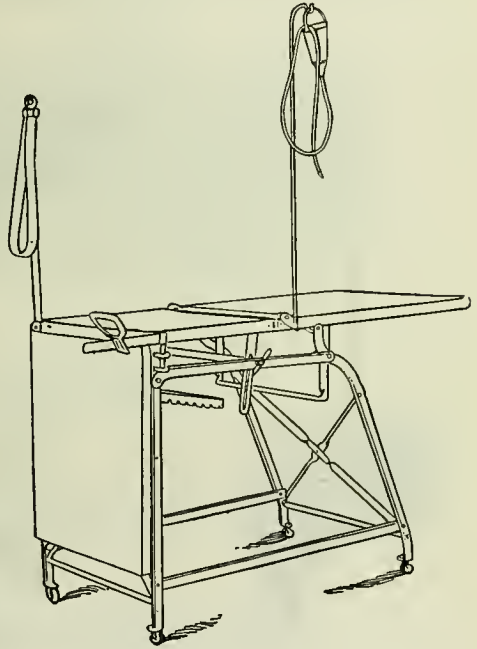
*All articles illustrated are designated by a *.*

Our own well-equipped factory is at your command for the production of any special instrument which you desire made. Our mechanics are experts in their various specialties. Our charges are as moderate as consistent with first-class work.

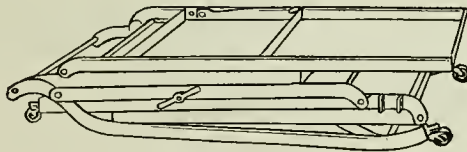
Hospital, Operating Room and Office Furniture.



1237



1239



Folded for Transportation.

1237

1239

- 1237.* Operating Table and Chair combined, improved Junior; portable, folding, all metal, white enameled \$14 00
 - 1238. Operating Table and Chair combined, same as Fig. 1237, including pair of stirrups and pair of leg-holders 16 00
 - 1239.* Operating Table and Chair combined, same as No. 1238, with the addition of a half-gallon irrigator, with tubing, cut-off and rod, complete 18 00
- Cushion Pad, covered with rubber cloth, \$4.00 extra.

This table was designed to meet the requirements for a compact, folding, portable operating table, suitable for any operation away from the hospital, especially at the patient's home. The back section is long enough so that no extra head-rest is required when used as a chair, as the patient's head rests on the back. It is constructed of steel and malleable iron, well braced, making it strong and rigid. The whole table is finished in white enamel except the working parts, which are polished and nickel-plated.

*All articles illustrated are designated by a *.*

Hospital, Operating Room and Office Supplies.

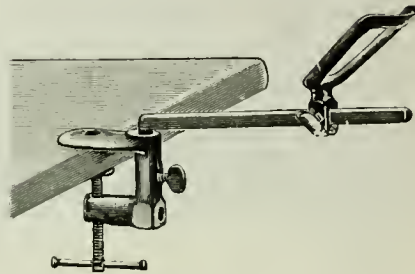
ADJUSTABLE LEG HOLDERS AND STIRRUPS.



1241

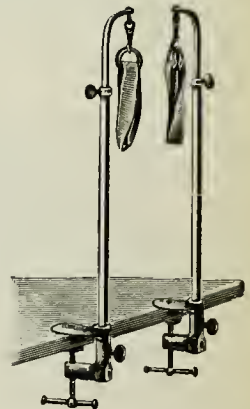


1243



1250

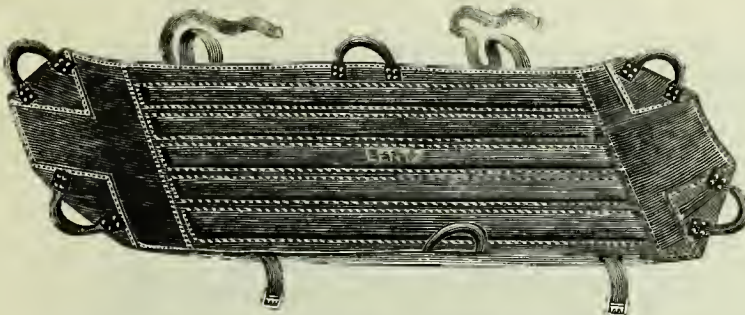
- 1240. Leg-holders, Edebohls' plain, galvanized steel rods and fittings, with leather stirrups; can be attached permanently to any table \$4 50
- 1241.* Leg-holders, Lentz's modified Edebohls', steel, nickel-plated, with leather stirrups, and universal clamps for use on any table or side of a wooden bedstead. 7 00
- 1242. Leg-holders, Fig. 1241, with the addition of nickel-plated heel stirrups 9 50
- 1243.* Lentz's Adjustable Gynecological Stirrups, nickel-plated; can be attached permanently to any table 6 50
- 1250.* Improved Adjustable Gynecological Stirrups with universal clamps, nickel-plated 6 50
- 1251.* Adjustable Leg-holders, Edebohls', with universal clamps, nickel-plated 6 00
- 1252. Lithotomy and Gynecological Combination Stirrups, Edebohls', consisting of a pair of upright adjustable stirrups with straps and a pair of heel stirrups, with universal clamps 8 50



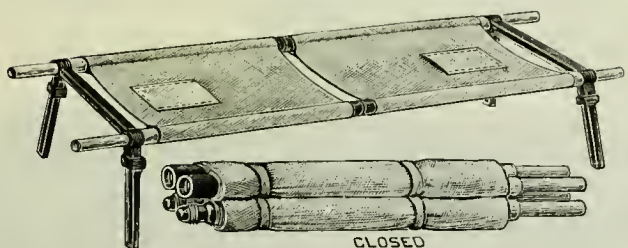
1251

*All articles illustrated are designated by a *.*

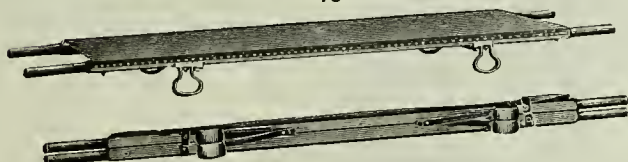
Hand Stretchers.



1272-1272a



1273



1274

- 1272.* Hand Stretcher, Reeves', flexible \$7 00
- 1272a.* " " " " with canvas bag 8 00

Folds close to the body, making it possible to carry a patient conveniently through a narrow passage-way or on a winding stair-way where a rigid stretcher could not be used. Specially adapted for equipment of ambulance and police patrol. Indispensable also for institutions, naval and passenger ships, mines and industrial plants. In use at the numerous works of the Carnegie Steel Company. Some hospitals have adopted it "for use in case of fire only," distributed in the various corridors.

Fully opened it measures 76 x 26 inches; folded and rolled up it occupies a space of 60 inches in length and 6 inches in diameter. Weight only 8 pounds.

- 1273.* Hand Stretcher, Pilling's 15 00

A collapsible, portable stretcher that occupies little space when folded. Total length when connected for use, 88 inches; when taken apart and rolled up the bundle measures 44 x 7 x 6 inches. Very strong, rigid and light. In use by the Pennsylvania Railroad Company, mines, factories, etc.

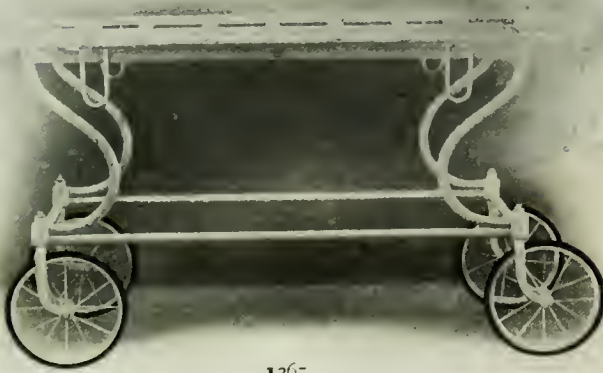
- 1274.* Hand Stretcher or Litter, United States Army and Hospital pattern 7 00

In use by the Philadelphia & Reading Railway Co. (every baggage car equipped with one), by the Philadelphia & Reading Coal & Iron Co., and by other railroads, mines, etc.

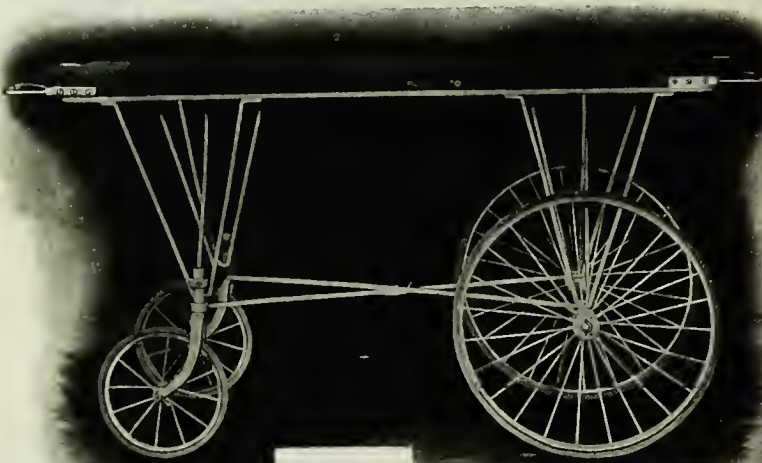
Length, 90 inches; height, 6 inches; width, open 22 inches, folded 4 inches. Weight, 17 pounds.

*All articles illustrated are designated by a *.*

Hospital Wheel Stretchers.



1267



1268

1267.* Hospital Wheel Stretcher, aseptic, all metal, white enameled \$60 00

The frame is constructed of wrought-iron pipe reinforced with malleable fittings. The forks supporting the wheels are hand forged. The wheels have clinched-in rubber tires, which are guaranteed not to work loose. The top is made of wrought-iron tubing and steel strips; it may be removed and will serve admirably as a carrying stretcher. The four wheels are swiveled, making it an easy matter to guide the stretcher in the desired direction.

1268.* Hospital Wheel Stretcher, white enameled, with oak top \$45 00

The frame is of steel, so constructed as to withstand the severest usage. The wheels are made with clinched-in rubber tires, which are guaranteed not to work loose. The top is of selected oak with nickel-plated handles. A strong, durable stretcher, that will stand the roughest usage and give general satisfaction.

*All articles illustrated are designated by a **

Hospital Furniture.

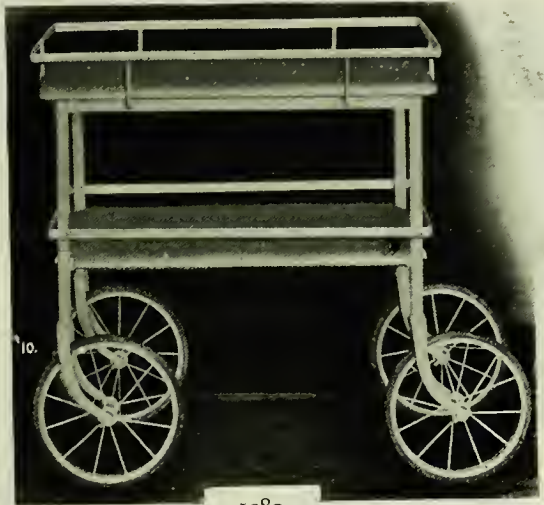
WARD CARRIAGES. WALL STANDS.

- 1282.* Ward Carriage,
with porcelain
enamel top
and shelf . . \$45 00

Carriage is constructed of wrought iron tubing and cold rolled steel, finished in white enamel, hand-rubbed and baked. The wheels have clinched-in rubber tires that cannot work loose. The front wheels are swiveled, allowing the carriage to be guided easily in the desired direction. Size, 18 x 33 inches.

- 1282a. Ward Carriage,
with top and
shelf of $\frac{3}{8}$ in.
polished plate
glass, other-
wise like No.
1282 \$40 00

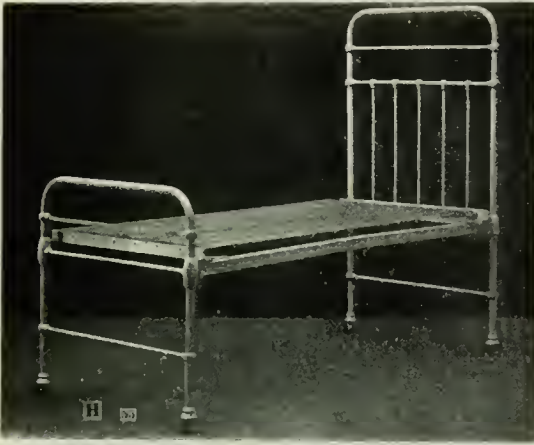
- 1282b. Ward Carriage
similar to No.
1282a, but with
the addition of
two adjustable
irrigator rods
and two one-
gallon irriga-
tors with
tubing and
Esmarch's cut-
offs 47 50



- 1283.* Wall Stand,
aseptible . 50 00

Frame of wrought iron pipe, white enameled. Shelves of snow-white porcelain enamel. Size of upper shelves, 8 x 36 in.; lower shelves, 12 x 36 in. Height, 57 inches. Rigid and strong; durable, clean.

Hospital Beds, Maternity Cribs, Bed Screens.

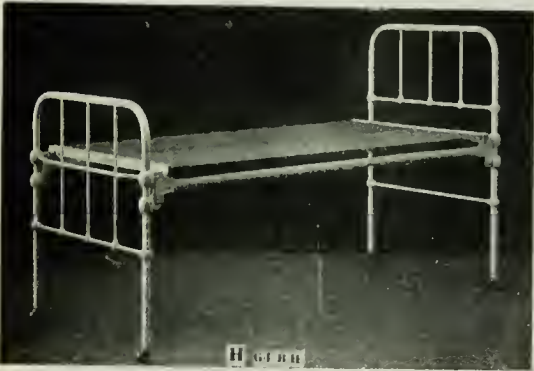


1302.* Hospital Bed,
white enameled, patent
fastening;
either 30 or 36
inches wide. . \$10 25
(Special prices to institutions.)

Made of seamless steel tubing, with chilled joints, dipped and baked with five coats of pure white enamel.

Provided with fracture bar and furnished with either National or woven wire fabric spring.

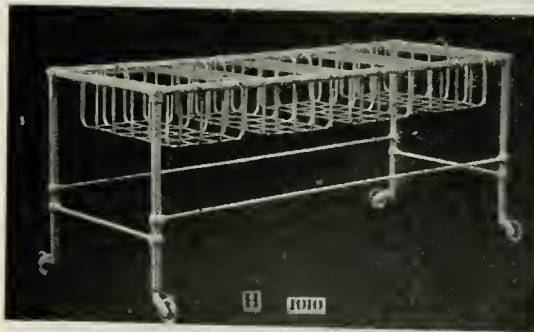
Height of head frame, 73 in.; of foot frame, 38 in.; of spring, 27 in.



1303.* Hospital Bed,
white enameled, patent
fastening;
either 30 or 36
inches wide. . \$11 25
(Special prices to institutions.)

Provided with fracture bar and furnished with either National or woven wire fabric spring.

Height of head frame, 54 in.; of foot frame, 36 in.; of spring, 27 in.



1304.* Multiple Crib for
Maternity
Ward; white
enameled;
with 4 cribs . \$25 00
Special sizes to order.

This novel carriage is a boon to every maternity ward, as it facilitates the work of the nurses, who can have several babies within easy reach and under their immediate care.

It has a tubular steel frame with chilled joints, dipped and baked with five coats of pure white enamel.

Provided with four strip-steel baskets, also enameled, with handles, so that each basket can be lifted readily from the carriage.

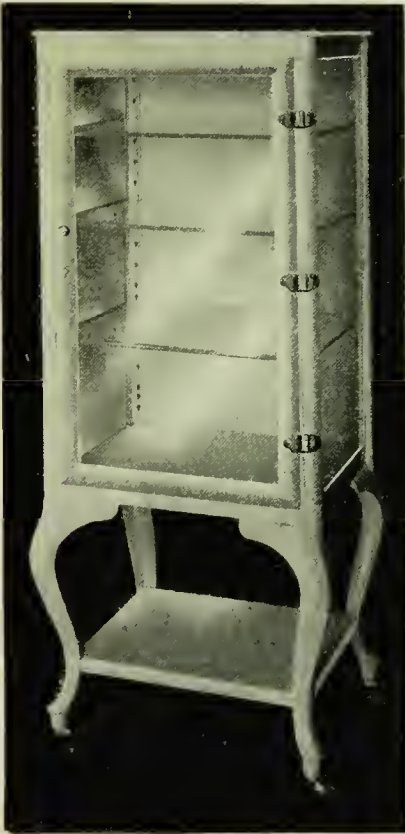
The frame is mounted on a set of easy-moving five-inch rubber casters.

1313. Mattresses, felt or hair Supplied at lowest market rates.

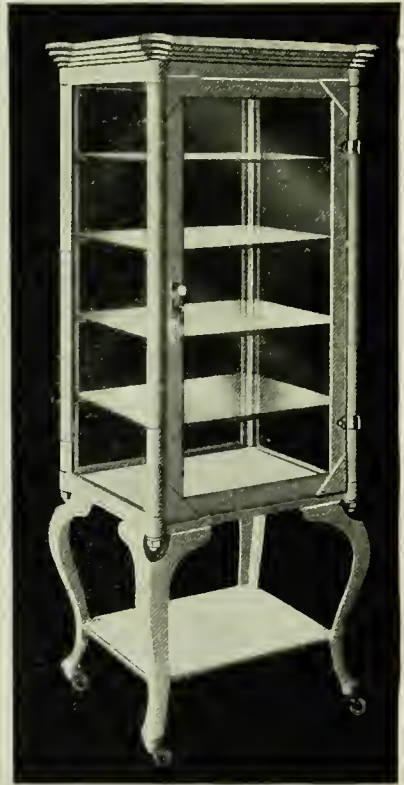
1314. Pillows, feather or hair Prices on application.

Hospital and Office Furniture.

INSTRUMENT CABINETS.



1318a



1317

- 1317.* Instrument Cabinet, aseptic, white enameled. The door, sides and back are fitted with double strength glass. The interior has four polished plate glass shelves, 16 x 20 in., with polished edges. At bottom a metal shelf is provided. Total height, 56 in.; width, 24 in.; depth, 20 in. Mounted on leather casters \$60 00
 - 1317a. Instrument Cabinet, like No. 1317, but with only three glass shelves, with edges ground, but not polished 55 00
 - 1318a.* Instrument Cabinet, aseptic, white enameled. The door and sides are fitted with double strength glass; the back is steel, white enameled. The interior has three polished plate shelves, 16 x 20 in., with ground edges. At bottom a metal shelf is provided. Total height, 56 in.; width, 24 in.; depth, 20 in. Mounted on casters 42 00
 - 1323. Instrument Cabinet, aseptic, white enameled. Has two doors, each with a separate lock. The back and the underneath shelf are of heavy sheet steel. The interior has four polished plate glass shelves, 16 x 38 in., with ground and polished edges. Total height, 61 in.; width, 42½ in.; depth, 21 in. 105 00
 - 1323a. Instrument Cabinet, like No. 1323, but has the edges of the glass shelves only ground, not polished 95 00
- Special catalogue of Hospital and Office Furniture sent on application.

*All cabinets illustrated are designated by a *.*

Hospital and Office Furniture.

INSTRUMENT CABINETS.



1138



1147



1142



1140

- 1324a.* Fig. 1138. Instrument Cabinet, aseptic, white enameled; back is of sheet steel; total height, 65 in.; dimensions of cabinet proper, 42 x 25 x 17 in. \$75 00
- 1324b.* Fig. 1142. Instrument Cabinet, aseptic, white enameled; back is of sheet steel; height, 60 in.; width, 25 in.; depth, 18 in. 90 00
- 1324c.* Fig. 1140. Instrument Cabinet, aseptic, white enameled; back is of sheet steel; height, 70 in.; width, 25 in.; depth, 17 in. 100 00
- 1324d.* Fig. 1147. Instrument Cabinet, aseptic, white enameled, two doors; back is of sheet steel; height, 65 in.; width, 50 in.; depth, 17 in. 150 00

Special catalogues of Hospital and Office Furniture sent on application.

*All articles illustrated are designated by a *.*

Hospital, Operating Room and Office Furniture.

INSTRUMENT AND DRESSING TABLES.



1326.* Instrument Table. Top and shelf of thin malleable iron castings, heavily coated with pure porcelain enamel, rendering them aseptic and practically indestructible. The uprights are made of wrought iron tubing and have the cross-bars riveted through them, giving to the frame rigidity and strength; finished in white enamel. Mounted on lignum-vitæ rollers.

Size 15 x 19 in. . . \$12 00	Size 18 x 33 in. . . \$25 00
“ 16 x 30 “ . . . 20 00	“ 24 x 36 “ . . . 31 00

1325a. Instrument Table, with top and shelf of polished plate glass; edges beveled and polished. Top held securely in place by means of neat claw corners. Frame of wrought iron tubing, finished in white enamel. Mounted on lignum-vitæ rollers.

Size 16 x 30 in. . . \$15 00	Size 18 x 32 in. . . \$18 00
Size 24 x 36 in. . . \$25 00	

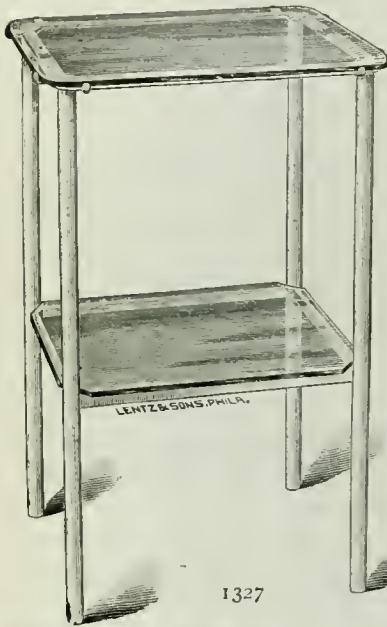
Special catalogues of Aseptic Furniture on application.

*All articles illustrated are designated by a *.*

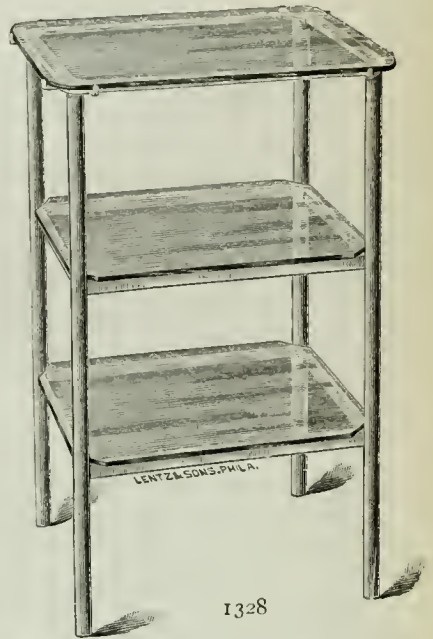
“Our factory is equipped to repair, sharpen, polish and nickel plate, your instruments in the best of manner and at shortest notice. For approximate costs of repair work, see page following index.”

Hospital, Operating Room and Office Furniture.

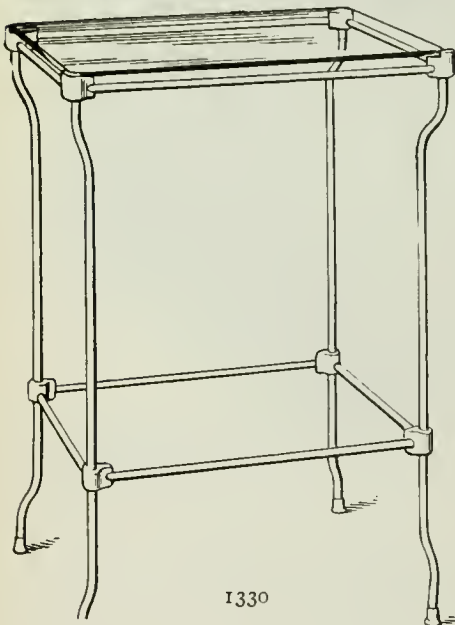
INSTRUMENT AND DRESSING TABLES.



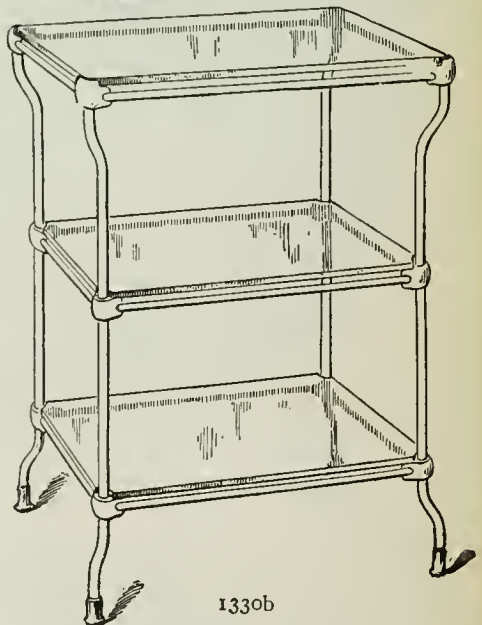
1327



1328



1330

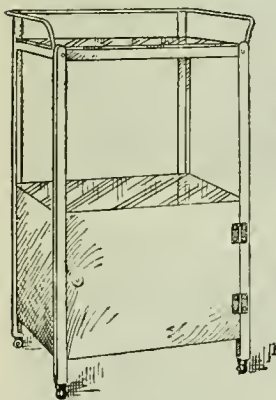


1330b

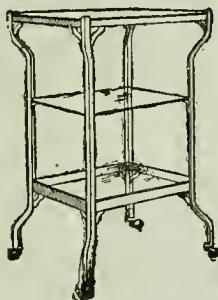
- 1327.* Table for Instruments and Dressings, for ward and office use, iron, white enameled, with top and shelf of heavy polished glass plate with polished edges. Size, 15 x 19 in. \$7 50
- 1328.* Same, with glass top and two glass shelves. Size, 15 x 19 in. 9 00
- 1330.* Table for Instruments and Dressings, steel, white enameled; flanged corners to hold the glass in place; polished plate glass top 16 x 20 4 50
- 1330a. Same, with the addition of one plate glass shelf 5 50
- 1330b.* Same, with the addition of two plate glass shelves 6 50

Hospital, Operating Room and Office Furniture.

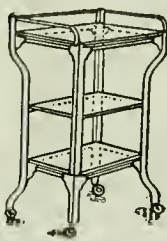
INSTRUMENT AND DRESSING TABLES. WALL SHELVES.
ANTISEPTIC SOAP CONTAINERS.



1330c



1330d



1330e



1330g



1330f

1330c.*	Table for Instruments and Dressings, steel, white enameled, with glass top, 16 x 20 in., and two glass shelves, 12 x 16 in.	\$7 00
1330d.*	Table for Instruments and Dressings, steel, white enameled, with glass top, 16 x 20 in., two glass shelves, 12 x 16 in., and nickel-plated rail around top	8 00
1330e.*	Table for Instruments and Dressings, or for Bedside, steel, white enameled, with glass top and glass shelf on top of box; nickel-plated rail around top. Size, 16 x 20 in. Steel box has close-fitting door and one shelf inside. Mounted on ball-bearing castors	15 00
1330f.*	Wall Shelves; of "Opalite" (rolled, pure white, opaque glass), top and edges polished; with pair of nickel-plated brackets and screws.	
	5 x 20 in. \$2 75; 6 x 20 in. \$3 00	
	5 x 30 in. 3 25; 6 x 30 in. 3 75	
	5 x 36 in. 3 50; 6 x 36 in. 4 25	
	We can furnish "Opalite" Tops and Shelves for tables of any size.	
1330g.*	Liquid Soap Jar, Bender's	2 00
1330h.	" " " " "Ol-Se-Co"	2 25
1330i.	" " " " globe shape	2 50
1330k.	Liquid Soap, Bender's, antiseptic.	
	Sprinkle-top bottle	25
	Quart bottle	75

1307.	Bed Screen, white enameled, rigid, length, 90 in.; height, 66 in.; with casters	\$12 00
1308.	" " " " three-fold, length, 96 in.; height, 66 in.; no casters	10 50
1309.	" " " " three-fold, with removable rods to slip through casings of panels; length, 96 in.; height, 66 in.; with casters.	12 00

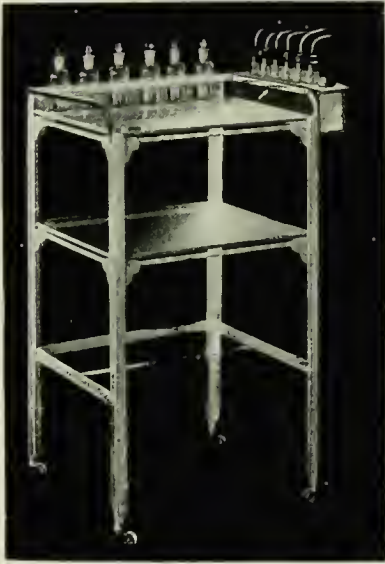
Panels not included.

We solicit inquiries on anything in the line of hospital equipment.

*All articles illustrated are designated by a *.*

Hospital and Office Furniture.

TREATMENT TABLES.



1333



1334

1333.* Treatment Table, aseptic, for nose and throat work.

Constructed of angle steel, white enameled, and mounted on ball bearing casters. Provided with glass top and glass shelf 16 x 20 in., nickel-plated guard rails at sides, rack at back of top holding six four-ounce glass stoppered bottles, and copper tank hanging at side. This tank has six openings for Davidson atomizer bottles; it is intended to be filled with water, and can be kept warm by means of an alcohol lamp or gas jet.

No. 1, complete, with six four-ounce g. s. bottles, copper tank and six Davidson atomizers	\$20 00
No. 2, same, but minus the six Davidson atomizers	15 00
No. 3, same, but minus copper tank and Davidson atomizers	10 00

1334.* Treatment Table, aseptic, for nose and throat work.

Constructed of angle steel, white enameled, and mounted on ball bearing casters. Provided with glass top and glass shelf 18 x 28 in.; nickel-plated guard rails at sides, each having three clamps to hold Davidson atomizer bottles; and rack at back of top holding nine four-ounce glass stoppered bottles.

No. 1, complete with nine four-ounce g. s. bottles and six Davidson atomizers	20 00
No. 2, same, but minus the six Davidson atomizers	15 00

Other sizes of Treatment Tables made to order.

*All articles illustrated are designated by a *.*

Hospital and Office Furniture.

STOOLS AND CHAIRS.



1340a



1340



1340b

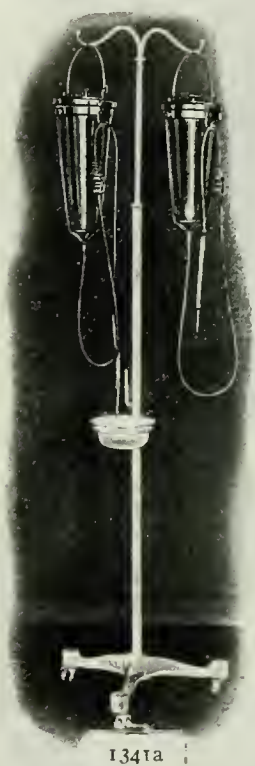


1340c

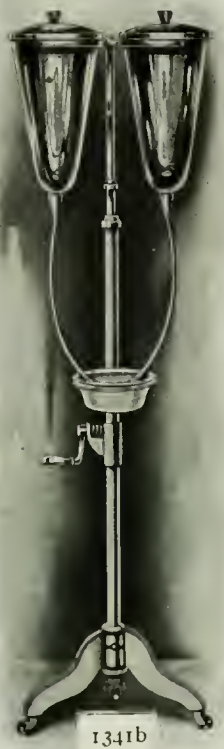
- 1340.* Revolving Stool, all metal, white enamel finish, with rubber tips \$5 00
 1340a.* " " " with hinged waste receptacle, white enamel
 finish, rubber tips 9 00
 1340b.* Chair, for office or operating room, all metal, white enamel finish 7 00
 1340c.* " and Commode, combined, all metal, white enamel finish, rubber tips . 12 00

Hospital, Operating Room and Office Furniture.

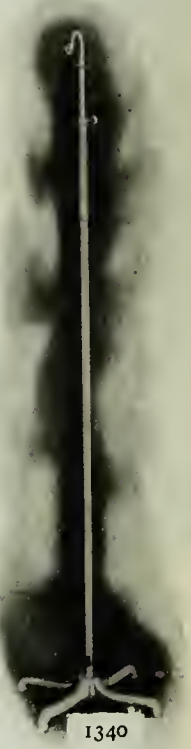
IRRIGATOR STANDS.



1341a



1341b



1340

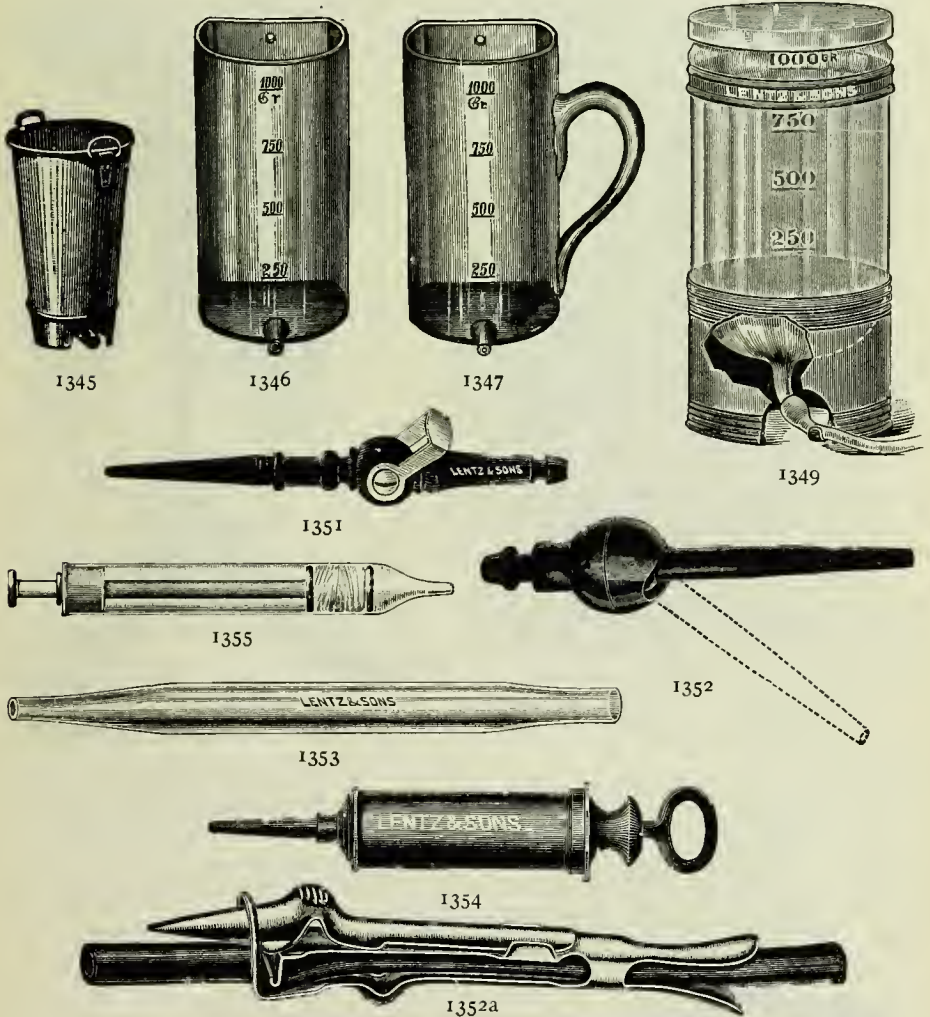
- 1340.* Irrigator Stand, iron, white enameled, adjustable, light construction . \$6 00
- 1341. Irrigator Stand, iron, white enameled, adjustable, with one-gallon irrigator, tubing and Esmarch's h. r. stop cock 10 00
- 1341a.* Irrigator Stand, iron, white enameled, heavy base, adjustable; with two 1½-gal. irrigators with covers, tubing, nozzles, cut-offs and basin 18 00
- 1341b.* Irrigator Stand, iron, white enameled, extra heavy base with large rubber casters, adjustable; with two 1½-gal. irrigators with covers, tubing, nozzles, cut-offs and basin. Irrigators are held in place by rigid iron semi-circular collars. Easily raised and lowered by worm gear and crank attachment 27 50
- 1342. Irrigator, glass, 1½ gal., with adjustable nickel-plated band and chain 2 75
- 1342a. Irrigator only, glass, 1½ gal. 1 75

Special catalogues of Aseptic Furniture on application.

*All articles illustrated are designated by a *.*

Hospital, Operating Room and Office Supplies.

IRRIGATORS AND ACCESSORIES.

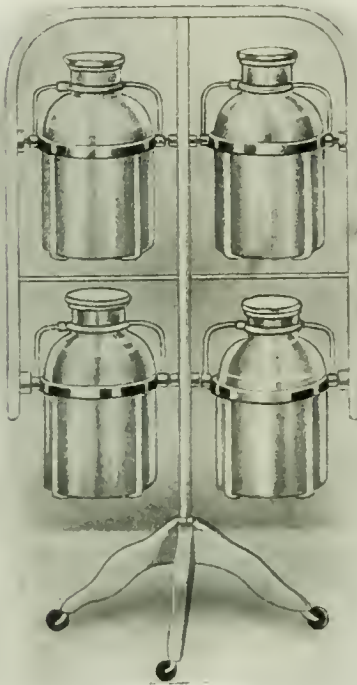


1345.*	Irrigator, Steel Porcelain, round	.3 qts.	\$1 50
1346.*	" Glass, graduated, with flat back,		
		1 qt., \$0 90; 2 qt., \$1 20; 3 qt., \$1 55; 4 qt.	2 00
1347.*	" " " " flat back and handle,		
		1 qt., \$1 05; 1½ qt., \$1 20; 2 qt., \$1 35; 3¼ qt.	1 70
1349.*	" " in metal frame	.1 qt., \$0 90; 2 qt., \$1 25; 3 qt.	1 75
1350.	Stop-cock, Valentine's, metal, compresses the tubing		75
1351.*	" Esmarch's, hard rubber, with conical point		75
1352.*	" Edebohls,		75
1352a.*	Shut-off, Self-Retaining, Nickel-Plated, easily adjustable, to control the flow through any size tubing, always ready for use.	per doz., \$6 00; each	60
1352b.	Shut-off, Metal, Automatic, as used on Fountain Syringes,		
		Small, dozen, \$0 50; large, dozen	75
1353.*	Irrigating Tube, Glass, 5 in. long, conical point	each, 10c.; per doz.	80
	For Tubing, white and pure gum, see Rubber Goods.		
1354.*	Syringe, for washing out wounds, hard rubber, with conical tip,		
		2 oz., \$1 75; 4 oz., \$2 00; 5 oz.	2 50
1355.*	" " " " " glass, with detachable cork end,		
		5 dr. doz., \$1 50; 7 dr. doz., \$1 75; 12 dr. doz.	2 25

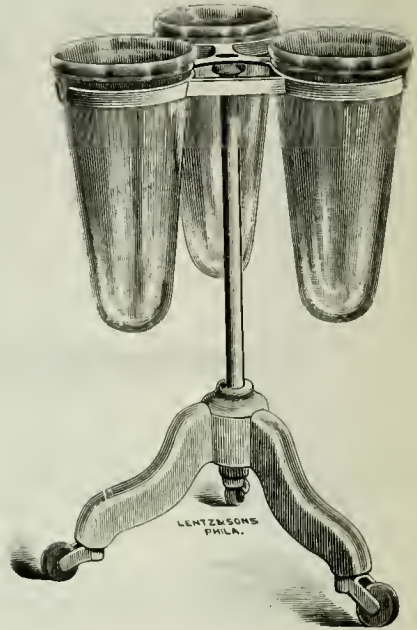
Hospital, Operating Room and Office Furniture.

BOTTLE STANDS.

IMMERSION WASHSTANDS.



1348



1357

- 1348.* Bottle Stand, all iron and steel, white enameled, mounted on casters; with either wide neck or narrow neck crystal solution bottles of three gal. capacity each:
 With two bottles, \$27 00; with four bottles, \$39 00; with six bottles \$50 00
- 1356. Immersion Washstand, single form, iron frame, white enamel finish, with crystal glass bowl 15 in. deep and 7 in. diam. 9 00
- 1357.* Immersion Washstand, triple form, revolving iron frame, white enamel finish, with three crystal glass bowls 16½ in. deep and 9 in. diam 22 00



1348a-c.

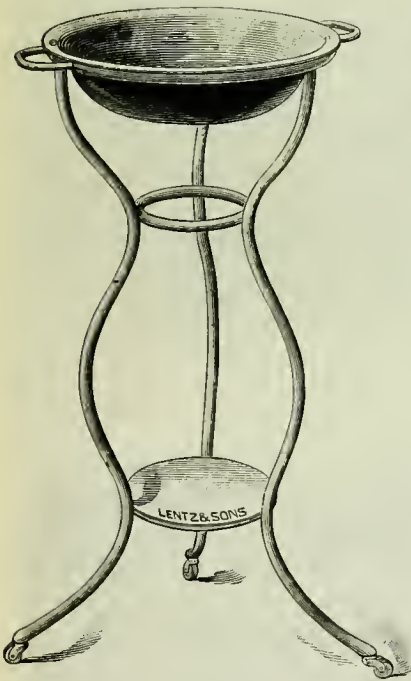
- 1348a.* Chart Holder with clamp, white enameled . . . per dozen, \$9.50; each 90
 - 1348b.* Chart Holder with clamp, aluminum; per dozen, \$10 00; each 1 00
 - 1348c.* Chart Holder with clamp, wood; per dozen, \$4 50; each 50
 - 1348d. Temperature Charts, Wilson's, per package of 50 50
 - 1348e. " " and Day Reports combined, per package of 50 50
 - 1348f. Day Reports, Lentz's . per package of 50 40
- When ordering to be sent by mail, add 7c postage per package of 50.

*All articles illustrated are designated by a *.*

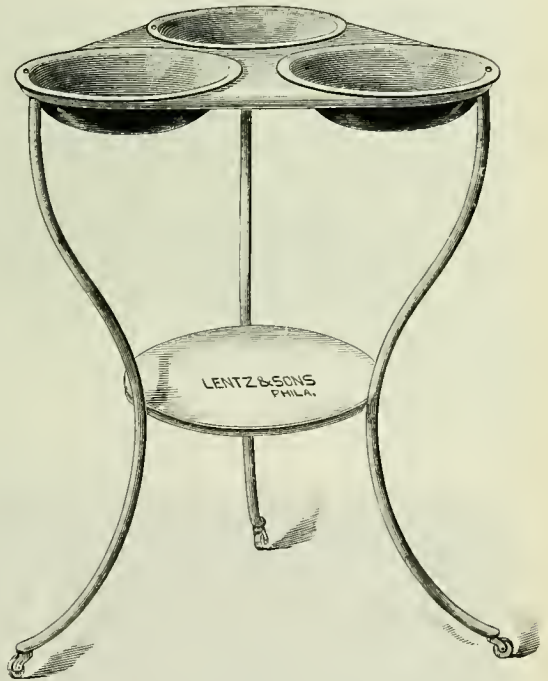
Hospital, Operating Room and Office Furniture.

WASHSTANDS.

BATH TUBS.



1360



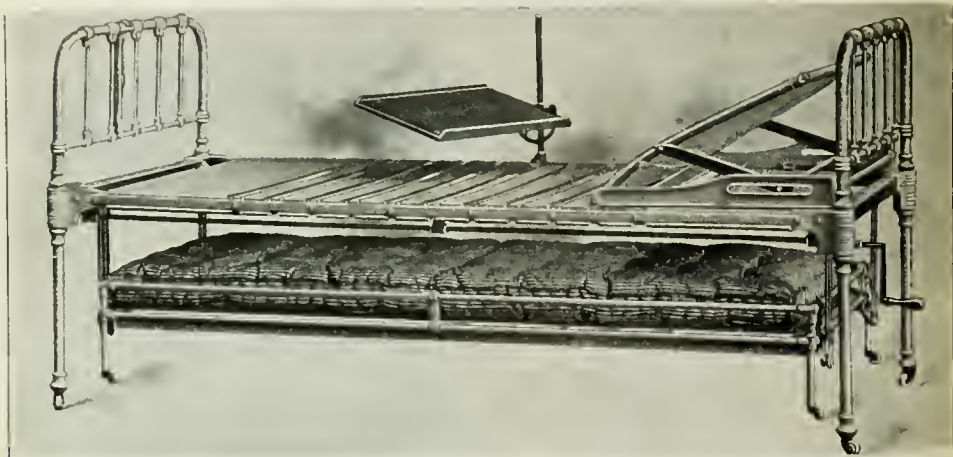
1361

- 1360.* Washstand, single form, wrought iron frame, white enameled, on casters, with steel enameled basin \$6 00
- 1358. Washstand, double form, same as above, with two basins 8 00
- 1361.* Washstand, triple form, same as above, with three basins 10 50
- 1359. Washstand, revolving, with three 13¾ in. glass bowls of different colors; a glass soap container rests on the top of the central shaft; the whole is mounted upon a neat base on casters 30 00
- 1371. Bath Tub, steel-clad, lined with tin and planished copper; mounted on four 6 in. rubber tired wheels, with handle; draw-off tap fitted in bottom; four sizes—4½ ft., \$40 00; 5 ft., \$42 00; 5½ ft., \$43 00; 6 ft. 48 00
- 1372. Bath Tub, Bellamy's improved, steel-clad, copper lined; mounted on four strong iron rubber tired wheels, with handle; furnished with an adjustable steel mattress by means of which a single attendant can raise and lower the patient. A draw-off tap is attached to foot end of tub. Size, 6½ feet 110 00
- 1373. Bath Thermometer, in square wood frame, 12 inches long 40
- 1374. " " porcelain scale, in round wood frame, 12 inches long 75

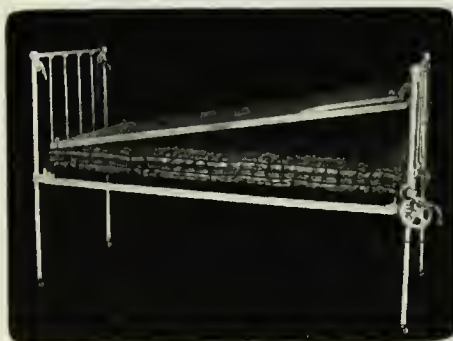
*All articles illustrated are designated by a *.*

"The name LENTZ on any instrument is to you a guarantee of superior quality and absolute reliability."

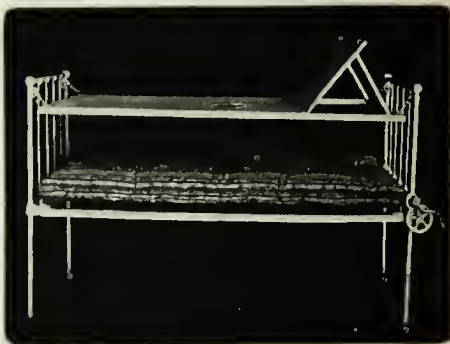
Invalid or Fracture Bedsteads.



1376



1376a.



1376a.

- 1376 * Crosby's Invalid Bedstead, iron, white enameled, with Head Rest, Woven Wire Springs and Soft Top Excelsior Mattress (adjustable table not included) \$47 00
- African Fibre Mattress instead of Excelsior Mattress \$2 00 extra.
- Curled Hair Mattress instead of Excelsior Mattress 7 00 extra.
- Adjustable Table and Book-Rest combined 5 00 extra.
- 1376a.* Hammock Invalid Bedstead, folding, white enameled, with Head Rest, Woven Wire Spring Bottom, Hammock and extra quality Cotton Top Mattress 28 00
- Mattress for Hammock Bed, cotton top, \$3 00; curled hair, \$10 00.

These bedsteads are designed to give comfort and ease to those patients who are so exhausted by disease that it would be necessary to lift them from and to the ordinary bed; also to prevent bed sores and cure those already existing. In all cases of fractures, amputations, dysentery, acute rheumatism, the last stages of consumption and typhoid fever attended with great prostration and involuntary discharges, they afford easy access to the body—permitting the bedclothes to be changed, the bed to be made up, securing perfect cleanliness without fatigue or annoyance, and allowing defecation to be performed without moving the patient. Easily managed. Full directions accompany each bedstead.

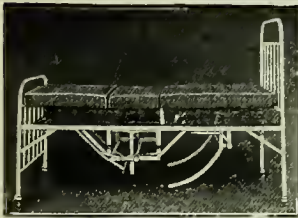
We carry these beds in stock, crated for immediate shipment.

Rental: For temporary use of patients residing in our vicinity we have several beds which we rent at the rate of \$7.00 per month or fraction of month; transportation extra. New mattress may be ordered.

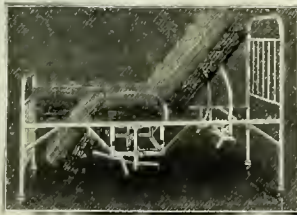
All articles illustrated are designated by a *.

Invalid or Fracture Bedsteads.

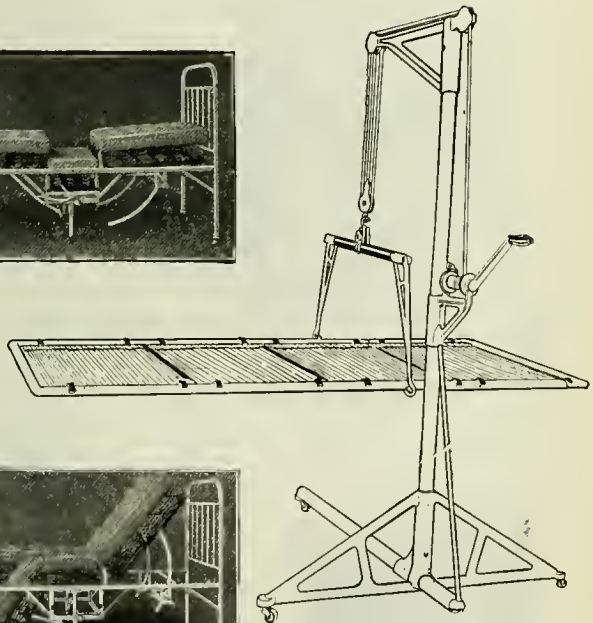
INVALID LIFT.



1376b



1376b



1376d

1376b.* Wallace's Adjustable Invalid Bed, iron, white enameled; mechanical devices japanned; with Box-Type Springs and Soft Felt Mattress, both in four sections \$60 00f

It presents all the valuable features of the other invalid beds, with the addition of advantages not possessed by them. The Wallace bed renders practically every position obtainable in an operating table, without inconvenience to either patient or attendant. The middle section lowers for use of bed pan or douche.

The general construction of the bed permits of the frequent and easy change to all the positions that are comfortable to the body, affording a boon to the convalescent and enabling the patient to sit up very gradually. It simplifies bathing of the patient and the changing of linen, as individual sheets are used for each of the four sections. The foot section is divided, so that each limb may be placed in the position desired for it.

Another of the prominent features of the Wallace bed is that it can be used as a Combination Bed and Chair, a feature which makes it appreciated among others by sufferers from asthma.

Rental: per month, \$10.00; transportation charges extra.

1376c. Gorham's Invalid Bed with Spring Mattress (soft mattress not included) \$50 00f

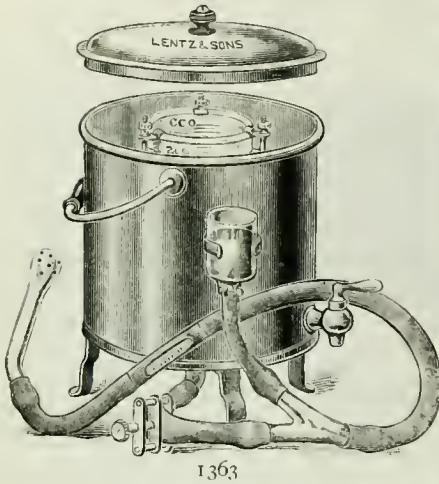
Rests on a tripod base and can be tilted to any desired angle. Easily managed. Circular on application.

1376d.* Thompson's Bed Lift, thoroughly aseptic \$35 00

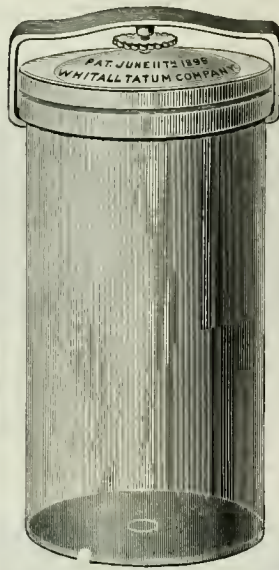
This form of apparatus is exceedingly useful in handling patients suffering from paralysis, rheumatism, dislocation, fracture, etc.; also in post-operative cases. It enables the nurse to attend to the patient's needs without any further assistance, and with such ease as to cause the patient no discomfort. The hammock, as shown in illustration, is supposed to be lying on a bed.

*All articles illustrated are designated by a **

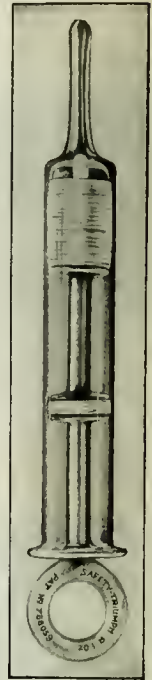
Hospital, Operating Room and Office Supplies.



1363



1362



1362



1364a



1368



1365a-b-c

- 1363.* Proctoclysis Apparatus, Saxon's, for Murphy treatment; reprint of directions for use accompanies each apparatus . . . \$12 00
- 1364a.* Dressing Pail, white enameled, with inside removable drain, with lid. . . 5 00
- 1365a.* " " "Justrite," automatic, aluminum bronze finish, 6 gal. . . 1 50
- 1365b.* " " " " " baked white enamel, 6 gal., \$3 50; 8 gal. 3 75
- 1365c.* " " " " " white porcelain enamel, 3 gal. . . 3 50
- 1362.* Glass Syringe, "Triumph," aseptic, with catheter or rectal point, ½ oz., 50c.; 1 oz., 60c.; 2 oz. 1 50
- 1368.* Brushes for hands and nails, tampico, 4-row, per doz., 85c; 5-row, per doz., \$1 10; 6-row, per doz. 1 50
- 1368a. Nail Nippers, fine quality, three patterns . . . \$1 50; \$1 75; 2 00
- 1368b. " Files, all steel4 inch, doz., \$2 50; each 25
- 1368c. Hair Clippers, superior quality 3 50
- 1369.* Museum or Specimen Jar, 3 50

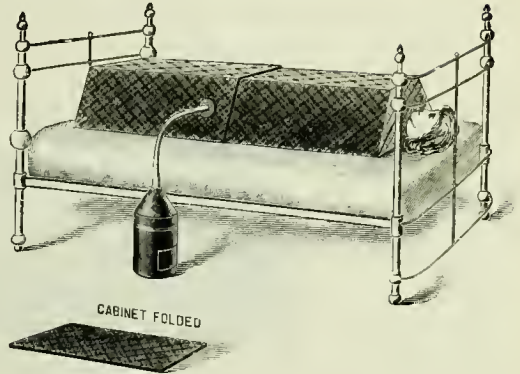
Width of Mouth	Height without Lid	Capacity (approx.)	Price.	Width of Mouth	Height without Lid	Capacity (approx.)	Price.
2¼ in.	.8 in.	.1 pint.	\$0 80	5⅞ in.	.12 in.	.4 quart.	\$2 40
2¼ "	.12 "	.1½ "	90	5⅞ "	.15 "	.5 "	2 55
3½ "	.6 "	.1¾ "	1 05	6¼ "	.8 "	.1 gallon.	2 60
3½ "	.8 "	.2½ "	1 15	6¼ "	.12 "	.1½ "	2 90
3½ "	.12 "	.4 "	1 35	7⅝ "	.8 "	.1½ "	4 00
3½ "	.18 "	.6 "	1 60	7⅝ "	.12 "	.2¼ "	4 55
5⅞ "	.8 "	.2¾ quart	2 00	7⅝ "	.18 "	.3½ "	5 35

Discount on Museum Jars 15%.

Thermal Bath Cabinets.



1388



1391

1388.*	Thermal Bath Cabinet, No. 1, with heater for alcohol	\$12 50
1389.	“ “ “ No. 2, “ “ “ “	7 50
1390.	“ “ “ No. 3, “ “ “ “	5 00
1391.*	“ “ “ No. 4, reclining, with heater for alcohol	7 50

The free and intelligent use of hot-air and vapor baths is recommended by highest medical authorities as a natural promoter of health, a preventer of disease, for the induction of mental rest, abating nervous excitement, and a sure stay against increase or excess of weight.

Cabinet No. 1 is the best pattern, lined inside with same material as outside, which is the best rubber drill. The top is made of double-faced rubber drill, so that no cloth or framework can be seen. This cabinet can be sponged off just like a bath tub and kept perfectly pure and clean.

Cabinet No. 2 is the same in construction and size as No. 1, but has no lining. The cloth side of the rubber goods is print in place of white, and the frame is stained, which adds much to the appearance of the cabinet. The trimmings are all first-class. This cabinet is practical and durable.

Cabinet No. 3 is made of a good quality rubber drill and a steel wire frame.

Cabinet No. 4 is made in two sections, which makes it more convenient to handle; the frames are of wood and the material rubber drill.

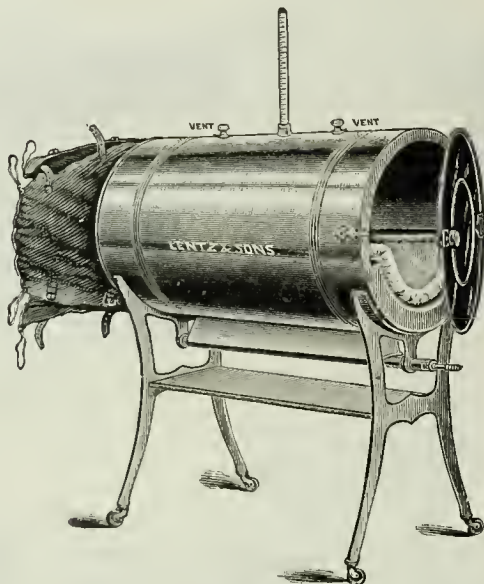
Full directions accompany each cabinet.

*All articles illustrated are designated by a **

“Our own well-equipped factory is at your command for the production of any special instrument which you desire made. Our mechanics are experts in their various specialties. Our charges are as moderate as consistent with first-class work.”

Frazier-Lentz's Hot-Air Apparatus

FOR TREATMENT OF RHEUMATISM.



1377

1377.* Frazier-Lentz's Hot-Air Apparatus, for the application of dry hot air for the successful treatment of cases of acute articular rheumatism, gonorrhoeal rheumatism, gout, traumatic arthritis, synovitis, tenosynovitis, fibrous ankylosis, fractures, sprains, dislocations, etc.

This latest form of apparatus, which we manufacture, and which has invariably given satisfaction, consists of a stout copper cylinder, 24 or 30 inches long by 16 inches diameter, with a flared longitudinal opening at bottom, under which is fixed a Bunsen burner with series of small flames extending the full length of the opening and with one end projecting through frame to permit attachment of rubber tubing. (In the apparatus constructed for oil, provision is made for a blast lamp, which can be easily placed in position or removed.)

On one end of the cylinder there is a large door, which can be instantly opened, and to the other end is attached a flexible sleeve of cloth with a double drawstring and straps, so that it can be drawn firmly and closely around the limb. The sleeve is arranged so that heat can be applied to all parts of the body, viz.: arm, shoulder, back, thigh, hip, abdomen, etc.

The upper two-thirds of the cylinder is lined with sheet asbestos, which is riveted directly against the copper. The lower third is also lined with asbestos. It is not attached directly to the cylinder, but is supported on three iron bars running the full length of the cylinder, and at a distance of about $1\frac{1}{2}$ inches from it.

On this asbestos sheet rests a very thick magnesia cradle, stiffened and strengthened with iron bands and covered with a suitable material to prevent the limb from coming in actual contact with the magnesia. This cradle, therefore, perfectly insulates the limb from the direct action of heat from the burners, yet allowing free circulation of dry, hot air.

At the top of the cylinder are three openings. Through the center one a long easily readable thermometer protrudes, registering to 400° F. The openings on each side can be opened to any extent desired, and serve as vents for the rapid escape of moisture and permit renewal of the air.

Frazier-Lentz's Hot-Air Apparatus

FOR TREATMENT OF RHEUMATISM.

On account of the scientific construction of our apparatus, the moisture from perspiration of the patient's limb is not allowed to accumulate, but passes off immediately it evaporates through the vents in the top of cylinder, and its place is taken by a fresh supply of dry, heated air. A constant and rapid circulation is thus kept up, allowing a higher temperature to be borne and preventing scalding.

The whole apparatus described rests upon a rigid iron frame with legs, bringing the cradle on a level with an ordinary chair. It is mounted on wheels, so that it can be readily moved into position.

The actual space required for the apparatus is 3 x 2½ feet, and with chair for the patient the total space is 5 x 2½ feet.

The Bunsen flames will bring up the desired temperature of 300° to 400° F. in about ten minutes at the ordinary gas pressure. The actual cost of running the apparatus is about 2 cents per hour. It is entirely portable, the total weight being less than 40 pounds. It is thoroughly well made and is far superior in durability and efficiency to some cheap tin apparatus on the market which have the heat applied at one end. The end of the cylinder is the position occupied by the fingers and toes of the patient, which are the parts most sensible to extremes of heat.

1377.*	24	inch	Apparatus, with Bunsen burner for gas	\$35 00
1378.	24	"	" with oil-burning blast lamp	40 00
1379.	24	"	" for both gas and oil	45 00
1380.	24	"	" with specially constructed electrical heating attachment for either 110-volt direct, or 54 or 104-volt alternating current	55 00
1381.	30	"	" with Bunsen burner for gas	40 00
1382.	30	"	" with oil-burning blast lamp	45 00
1383.	30	"	" for both gas and oil	50 00
1384.	30	"	" with specially constructed electrical heating attachment for either 110-volt direct, or 54 or 104-volt alternating current	60 00

For treatment of joints only—ankle, knee, wrist or elbow—we have constructed an apparatus 12 inches in length, with no door, but with a sleeve at each end.

1385.	12	inch	Apparatus, with Bunsen burner for gas	\$28 00
1386.	12	"	" with oil-burning blast lamp	28 00
1387.	12	"	" with specially constructed electrical heating attachment for either 110-volt direct, or 54 or 104-volt alternating current	48 00

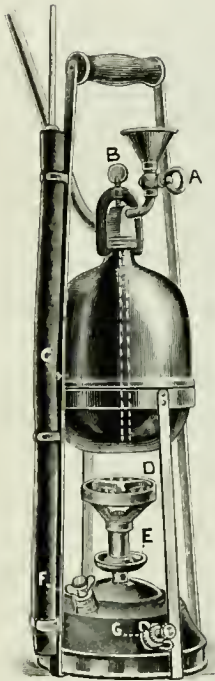
We can furnish any of the above apparatus with a woven asbestos cloth sleeve and with cradle covered with the same material at an additional cost of \$6.50.

Estimates given for Apparatus of special size or shape.

We will send upon request reprint of article in the New York Medical Journal of May 27, 1905, by Dr. Clarence E. Skinner, on the "Local Dry, Hot Air Application in General Practice."

Disinfecting Apparatus.

LENTZ'S FORMALDEHYDE GAS DISINFECTOR.



1394

Our disinfector consists of a stout copper retort of four pints capacity, with funnel filling tube and level indicator, with stopper of special construction and inclined brass outlet tube of large bore, communicating by means of special flexible tubing with another and smaller brass tube, which is inserted through the keyhole of the room to be disinfected.

The solution in retort is heated by means of a special form of blast lamp, and the whole apparatus, which is entirely of copper and brass, is firmly braced together for convenience in carrying.

The whole apparatus, with the exception of the level indicator, is original with us, and the construction of the stopper of retort and outlet tubes is specially made to prevent throwing of liquid into the room, as there is considerable foaming during ebullition, caused by the glycerin added to the formaldehyde in solution. The brass outlet tube and the flexible communicating tube are both of large bore and are both inclined, so that any solution spasmodically regurgitated into the neck of retort may run back.

The special blast lamp used tends to cause rapid ebullition and the prevention of regurgitation by preventing the ascending and descending currents of liquid in retort interfering with each other. The burner gives a circle of flame of intense heat, with a cooler center. The tendency of the liquid in retort, therefore, is to rise at the sides of the vessel and to descend at the center.

Bacteriological tests of the most exacting nature have proven that the gas liberated from our disinfector is an absolutely thorough surface disinfectant, and that its penetrative power is unexcelled by any other generator on the market.

The entire disinfecting apparatus weighs, complete, six pounds when empty, and ten pounds when filled for use. It is therefore quite portable and is easily carried by the handle, the outlet tube being removed and clamped neatly at side of apparatus. Extreme height, 26 inches. Extreme width, 10 inches.

It is the most economical apparatus for practical work. All parts are interchangeable and can be replaced at small cost.

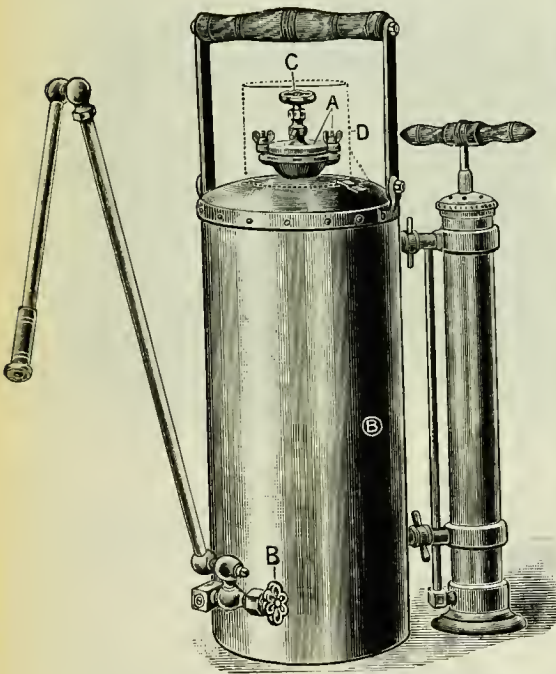
Used and recommended by hundreds of Boards of Health, Hospitals, Railroads, Schools, Physicians, Undertakers, etc.

- 1394.* Lentz's Portable Formaldehyde Gas Disinfector \$12 50
- 1395. Disinfecting Solution, consisting of ten parts of 40% formaldehyde and one part of glycerin:

In quantities of 1 pint to 4 gallons (container extra).per lb.	25
In quantities of 5 to 10 gallons (container extra) . . . " "	20
In carboy of 15 gallons (container \$2 00 extra, but returnable) " "	15

One gallon of this solution weighs 10 pounds.
 Printed instructions are attached to each apparatus.

Disinfecting Apparatus.



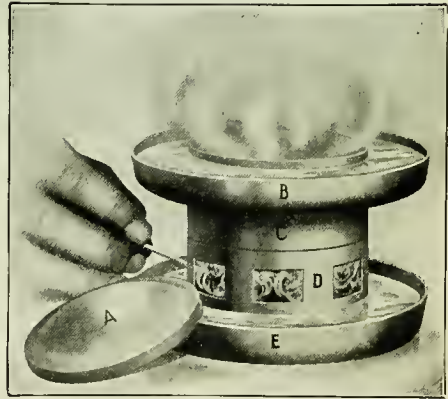
1392



1393



1396



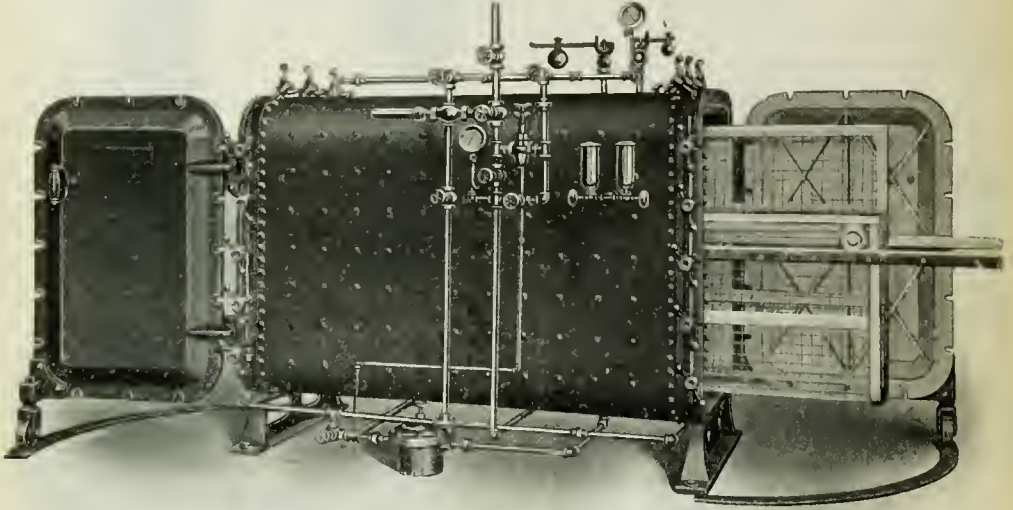
1398, No. 1

- 1392.* Formaldehyde Spray Apparatus, Stewart's, portable; tank 20 inches high, 7 inches diameter. The Philadelphia Board of Health uses several of them \$25 00
- 1393.* Formalin Lamp, Schering's, including 40 pastils of formalin (paraform) 1 50
- 1396.* Formalin Disinfector, blue enameled, with brass lamp, in box with handle (no pastils included) 4 00
- 1396a. Formalin Pastils, each one gram = 15 2-3 grains; box of 20, 25c.; package of 5 boxes, \$1.25; tin of 250, \$1.75; tin of 500 3 50
- 1397. Formaldehyde Vaporizer, "Simplex"; useful for fumigating closets, bathrooms, etc.; No. 1, 8 oz. boiler, \$1.50; No. 3, 16 oz. boiler 2 00
May be used also as steam atomizer or as catheter sterilizer.
- 1398.* "International" Germ Destroyer, using Dr. Leininger's Standard Pure Solidified Formaldehyde. Simple of operation; just add a stated quantity of water and light the wick:
 - No. 0, will disinfect 1,000 cubic feet of space 35
 - No. 1, will disinfect 2,000 cubic feet of space 60
 - No. 2, will disinfect 4,000 cubic feet of space 85

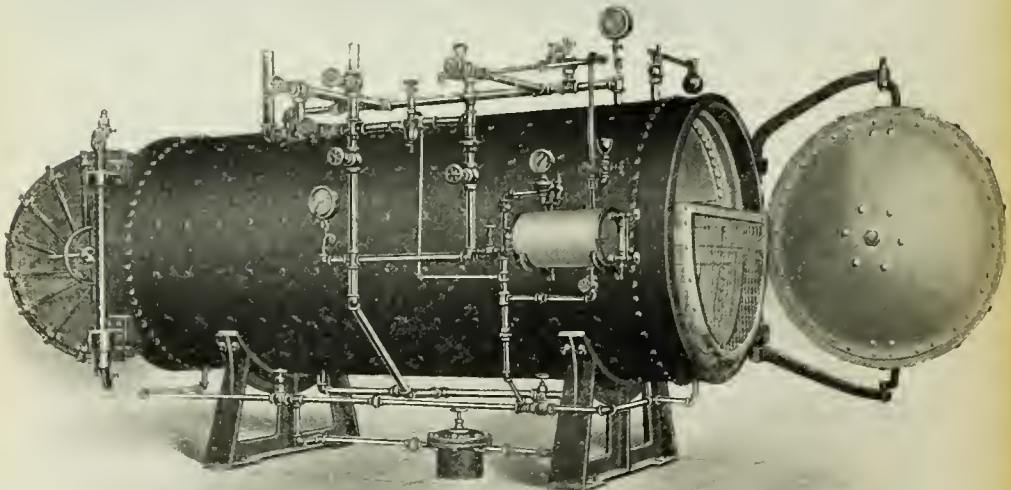
All articles illustrated are designated by a *.

Disinfecting Apparatus.

BEDDING DISINFECTORS.



1399.* "American" Steam Pressure Disinfecter, Rectangular, with wing nut locking device for doors and provided with the American-Vacuum formaldehyde and ammonia attachment; for the thorough disinfecting of mattresses, pillows, bed clothing, wearing apparel, etc.



1399a.* "American" Steam Pressure Disinfecter, Cylindrical, with the American-Vacuum formaldehyde attachment, with single door.

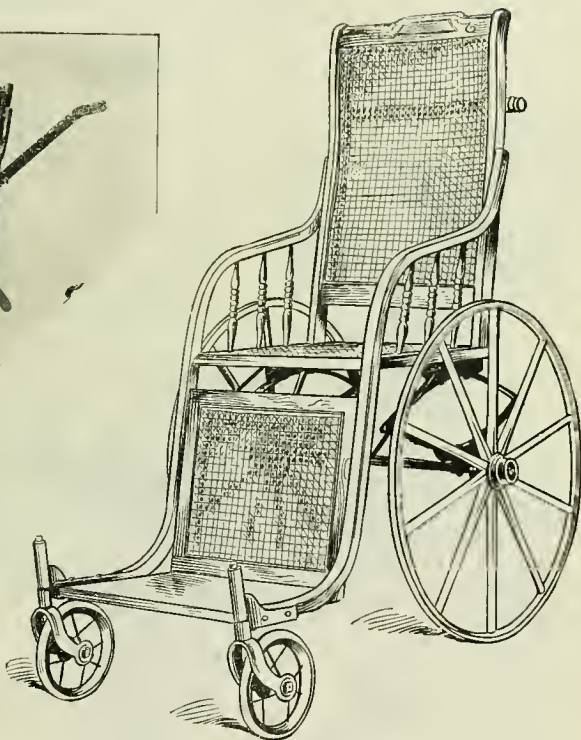
Write for fully descriptive circular and prices.

*All instruments illustrated are designated by a **

Invalid Chairs.†



1411



1400-1401

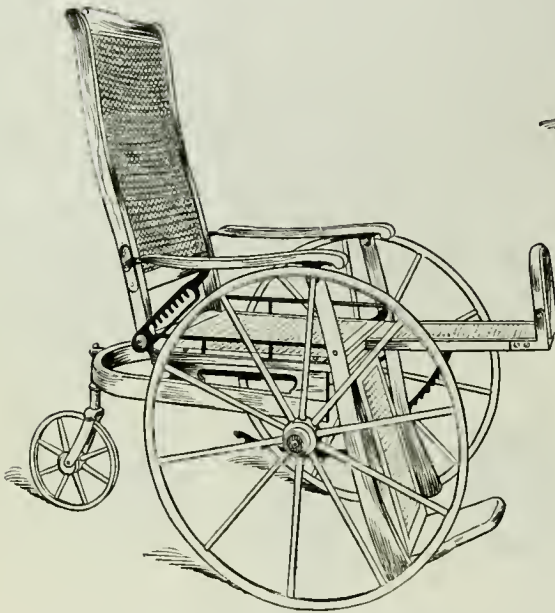
- 1400.* Invalid Street Rolling Chair, oak wood, caned; stationary push handle; 3/4-inch rubber tire, iron front wheels:
- No. 1, with plain wooden or steel side wheels \$28 00
 - No. 2, with 3/4-inch rubber tire, steel side wheels 34 75
- 1401.* Invalid Street Rolling Chair, oak wood, caned; stationary push handle; one-inch cushion tire, iron front wheels:
- No. 3, with one-inch cushion tire, steel side wheels 37 50
 - No. 4, with pneumatic tire, steel side wheels 41 25
- Extras:* commode \$3.75; adjustable push handle, \$3.75; ball bearings in the four wheels, \$3.25; sateen canopy, lined, \$2.25; hand rims at side wheels, \$1.85.
- Made in four widths:
- | | | | |
|----------|----------------------------------|-----------------------|-----------------------------|
| Wide: | extreme width 28 in., | width of seat 18 in., | height of back 28 or 32 in. |
| Medium: | “ “ 27 “ “ “ 17 “ “ “ 28 or 32 “ | | |
| Narrow: | “ “ 26 “ “ “ 16 “ “ “ 28 or 32 “ | | |
| Child's: | “ “ 24 “ “ “ 14 “ “ “ 25 in. | | |

When ordering specify extreme width and height of back. If not specified, we supply 28 inch width and 32 inch height of back.

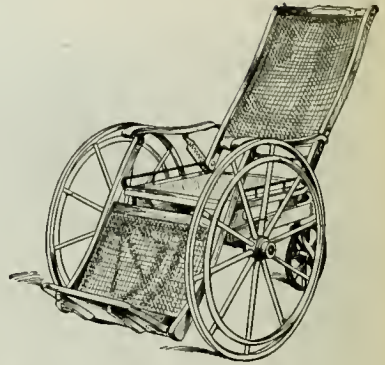
1403. Invalid Street Rolling Chair, *reclining*, oak wood, caned. Extreme widths and widths of seat one inch larger than of Nos. 1400 and 1401. General construction same, except that it is provided with mechanism to adjust it to various positions. Add \$2.75 to prices of Nos. 1400 and 1401. If not specified, we supply 29 inch width.
- 1411.* Invalid Carrying Chair, folding; frame and removable carrying bars of oak wood; seat of carpet; bars can be adjusted to any angle for carrying on incline or level \$7 50

*All articles illustrated are designated by a **

Invalid Chairs.†



1404



1407

1404.* Invalid Indoor Rolling Chair, reclining; oak wood, caned; hand rims at side wheels for propelling (as shown in Fig. 1407); divided independent leg rests, which are adjustable in length as well as in angle:

No. 1, with plain wooden or steel wheels	\$25 25
No. 2, with 1 inch cushion tire, steel wheels	35 50
No. 3, with 1½ inch pneumatic tire, steel wheels	39 25

Extras: springs, \$2.25; commode, \$3.75; stationary push handle, 75c.; ball bearings in the three wheels, \$2.75.

Made in four widths:

Wide:	extreme width, 29 in.; width of seat, 19 in.; height of back, 28 or 32 in.
Medium:	“ “ 28 “ “ “ 18 “ “ “ 28 or 32 “
Narrow:	“ “ 27 “ “ “ 17 “ “ “ 28 or 32 “
Child's:	“ “ 25 “ “ “ 15 “ “ “ 25 in.

When ordering, specify extreme width and height of back. If not specified, we supply 28 inch width and 32 inch height of back.

1407.* Invalid Indoor Rolling Chair, reclining; oak wood, caned; hand rims at side wheels:

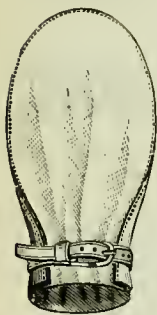
No. 1, with plain wooden or steel wheels	\$19 75
No. 2, with 1 inch cushion tire, steel wheels	30 00
No. 3, with 1½ inch pneumatic tire, steel wheels	33 75

Extras and Sizes same as of No. 1404.

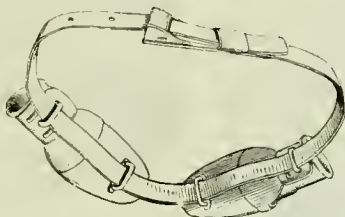
*All articles illustrated are designated by a **

Hospital Necessities.

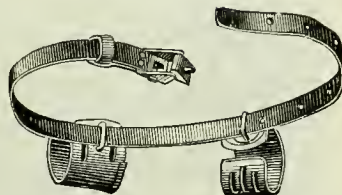
RESTRAINTS.



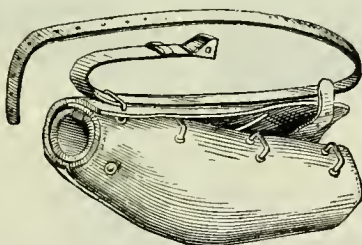
1415



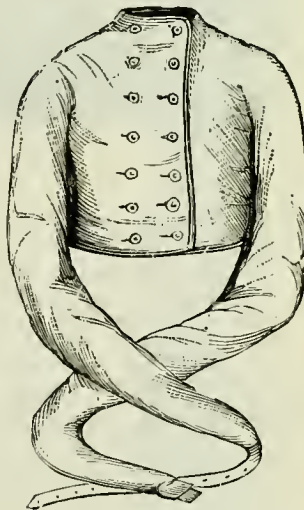
1416



1419



1418



1420



1417

- 1415.* Mitt, of drab canvas, light, durable and washable, with small buckle, including waist strap and buckle \$ 5 00
- 1416.* Mitts with waist strap and patent lock buckle, complete per pair 8 00
- The wristlet and upper part of palm are made of heavy russet leather, and lined with best of buckskin. The wrist and back of hand are of calf russet, soft and pliable. Ventilation by perforation in the back. Attachment to waist strap by two brass staples on each wrist, as shown in cut.
- 1417.* Muff, of drab canvas, light, same quality and attachment as No. 1415 \$ 5 00
- The hands are separated by a thickness of the canvas.
- 1418.* Muff, Lynch's pattern, with waist strap and patent lock buckle, complete 8 00
- A new design, much superior to all the older styles, and made of russet leather. Its form is permanent. Permanent wristlets are attached and so fitted with buckles as to be adjustable to any size of wrist. These wristlets are turned on the edge and lined with best buckskin, as are also the seams in the muff. The most thorough ventilation is secured by perforations on the under surface and back.
- 1419.* Wristlets, adjustable, made of heavy russet leather, lined with buckskin, with waist strap and patent lock buckle \$ 5 50
- 1420.* Straight Jacket, long, made of heavy canvas for confining the violently insane 6 00

*All articles illustrated are designated by a *.*

Hospital Necessities.

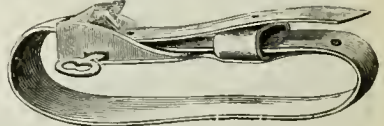
RESTRAINTS.



1428



1423



1425



1426

- 1423.* Anklets, best russet leather, lined with buckskin, with small or large buckles \$6 00

There are two styles of anklet, one with small and one with large buckles. Those with small buckles do not become separated when detached from the patient, but are always together when required for use. They are adjustable to any ankle and are especially designed for day use. Those with large buckles may be used separate, and are best adapted for night use.

1424. Bed Strap, Lynch's 10 00
 1428.* Restraint-Sheet and Straight-Jacket Combined, Hooper's, patented 12 00

It is a decided improvement on anything of the kind that has ever been put on the market, and no establishment for the care of the sick or insane can afford to be without one or more of them.

It can be very easily and quickly adjusted to any bed, cot or surgical table; and while it holds the patient in such a manner as to make it a matter of utter impossibility for him to escape, it makes it equally impossible for him to expose his person or to do himself any injury. After the patient has been confined in the Restraint-Sheet and Straight-Jacket Combined he may be left alone if necessary, for it does not require the care and attention of a nurse or attendant to keep the Sheet in place. The strongest man is helpless as an infant once he is confined in the Sheet.

Made of heavy cotton duck, reinforced in two-, three- and four-ply, according to the strain put upon the parts, the whole being quilted with rows of stitching. The arm and ankle straps, as well as the neck and armholes, are lined with canton flannel. An extra strap, which passes around the arm just above the elbow, is also provided.

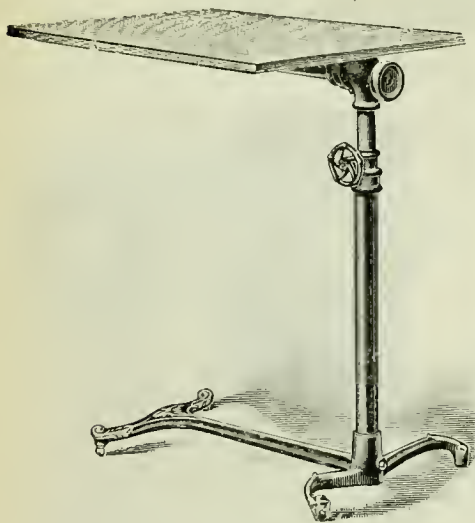
The Sheet can be laundered and sterilized, thus fulfilling all hygienic requirements. It confines the patient in a position of absolute rest and does not interfere with a perfect circulation of the blood. Made in only one size.

- 1425.* Restraint Strap, of best russet belting, 28 to 36 inches long, with lock buckle 3 00
 Restraint Strap, of best russet belting, 48 to 54 inches long, with lock buckle 3 25
 Restraint Strap, of best russet belting, 94 inches long, with lock buckle 3 50
 1426.* Buckle, small, for fastening shoes and clothing. 85

*All articles illustrated are designated by a *.*

Hospital Furniture and Patients' Necessities.

BEDSIDE TABLE†. BACK RESTS†. VACUUM BOTTLE.



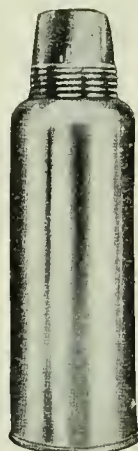
1430



1432



1432 and 1433



1435

- 1430.* Bedside Table with adjustable top of polished oak:
 - a. Black enamel finish \$5 75
 - b. White enamel finish 7 00
 - c. Oxidized 8 50

The stand is made of steel tubing, very strong, but light. The leaf is 18 x 24 in., of selected oak, nicely polished. Adapted for use over bed, lounge, chair, etc. The leaf can be adjusted in height, extended to reach middle of bed, and tilted either side to any angle.
- 1430d. Bedside Table, like Fig. 1430, but all-metal shelf, white enameled, aseptic 8 00
- 1430e. Bedside Table, like Fig. 1430, but oxidized copper, with white glass shelf 11 00
- 1432.* Back Rest, "Solid Comfort," ash wood frame:
 - No. 1, without arm or head rests 2 50
 - No. 2, with arm rests only 3 00
 - No. 3, with head rests only 3 00
 - No. 4, with both arm and head rests 3 50
- 1433.* Bed Tray, folding, oak finish, 15 x 23 in., 7 in. high 2 75
- 1435.* Vacuum Bottle; keeps hot liquids hot for 30 hours; keeps cold liquids cold for 84 hours; mounted in nickel-plated case with gold lined cup. Pint size, \$3 50; Quart size 5 50

In case of breakage the bottles can be replaced at moderate cost.

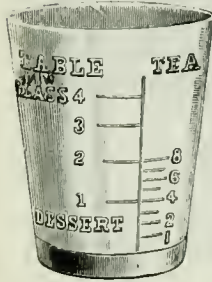
*All articles illustrated are designated by a *.*

Hospital and Patients' Necessities.

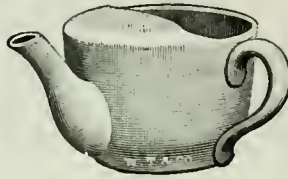
MEDICINE GLASSES, FEEDING CUPS, ETC. Δ



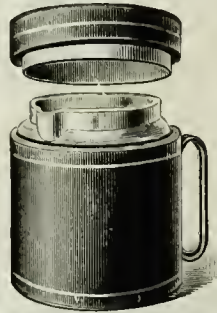
1436



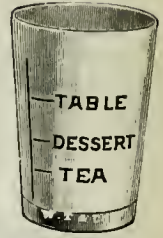
1440-1441



1444-1445



1437



1438-1439



1442-1443



1446



1447

- 1436 * Plate, with compartments, for serving meals to invalids \$1 25
- 1437 * Cooler, for keeping water cold and preserving ice, 5½ x 7 in 1 50
 Consists of a 1 qt. glass jar enclosed within a double walled can.
 Owing to its non-conducting quality the can is also well adapted for retaining the heat of broth, gruel, or other food placed in the jar when hot.
- 1438 * Medicine Glass, small, pressed doz., \$0 65; each 08
- 1439 * " " engraved " " > 25; " 25
- 1440 * " " large, graduation inside " " 90; " 10
- 1441 * " " hand engraved " " > 50; " 30
- 1442 * Feeding Cup, porcelain, large, plain white 2 75; " 30
- 1443 * " " small, blue decorations, gold lines " 3 60; " 40
- 1444 * " " with side spout, plain white " 2 75; " 30
- 1445 * " " blue decorations, gold lines " " " 50
- 1446 * Feeding Spoon, " in white and gold " 1 75; " 20
- 1447 * Feeding and Drinking Cup, glass, "Ideal," for administering nourishment to invalids in the recumbent position doz., \$2 25; each 25
- 1448 * Medicine Glass Cover and Dose Indicator, "Acme," white glass " " 15
- 1449 * Tap for champagne, soda, or any other effervescent drink, needle form 85
- 1449a. " " " " " " Lawrence's 1 25

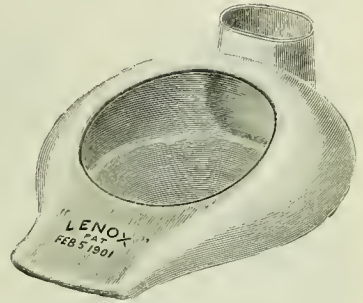
*All articles illustrated are designated by a *.*

Hospital and Patients' Necessities.

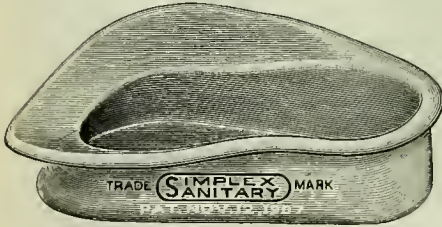
BED AND DOUCHE PANS. URINALS.



1452 a b c



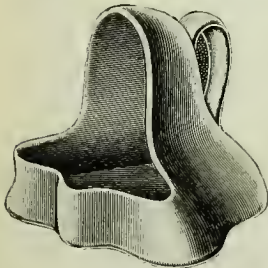
1454



1454a



1453



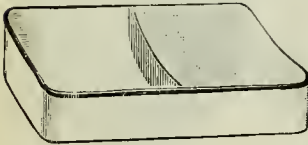
1464a



1466



1465



1458-1458a



1455

1452a.*	Bed Pan, "Perfection,"	porcelain, small size, \$2.50; regular size . . .	\$2 75
1452b.*	" " " "	gray enameled steel ware	4 00
1452c.*	" " " "	white enameled steel ware	4 75
1453.*	" " "Eureka,"	porcelain	1 25
1454.*	" " "Lenox,"	"	1 75
1454a.*	" " "Simplex,"	"	2 00
1451.	" " " "	porcelain, with tubular handle for draining	1 25
1455.*	" " " "	white enameled steel ware, with lid	2 25
1458.*	Bed and Douche Pan,	white enameled steel ware	2 00
1458a.*	" " " "	gray "	1 75
1465.*	Urinal, male,	white enameled steel ware	1 25
1466.*	" female,	" " " "	1 40
1462.	" male, glass	plain, 50c.; graduated	80
1463.	" female	60c.;	90
1464a.*	" " " "	porcelain, "Perfection"	1 75

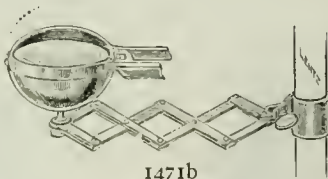
All articles illustrated are designated by a *.

Hospital and Patients' Necessities.

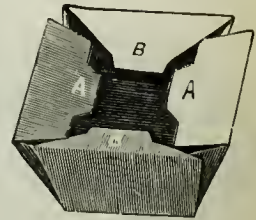
WINDOW TENT. SPUTUM CUPS AND FLASKS.



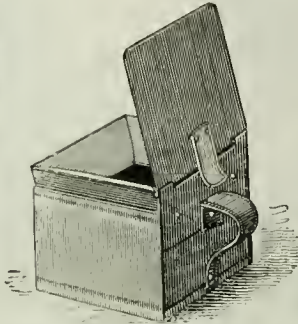
1469c



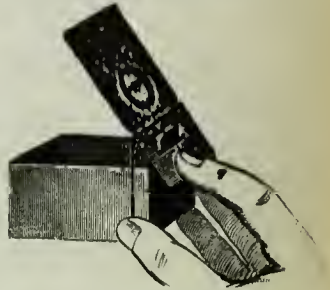
1471b



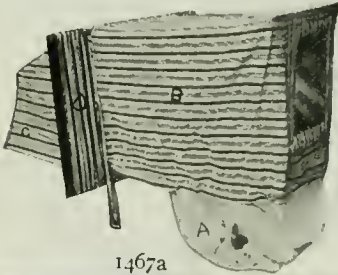
1469a



1471a



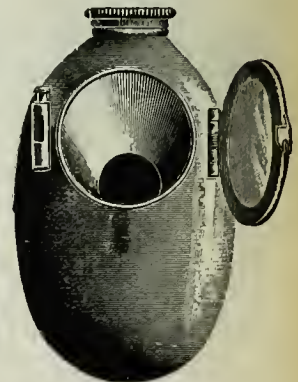
1469b



1467a



1470a



1470b



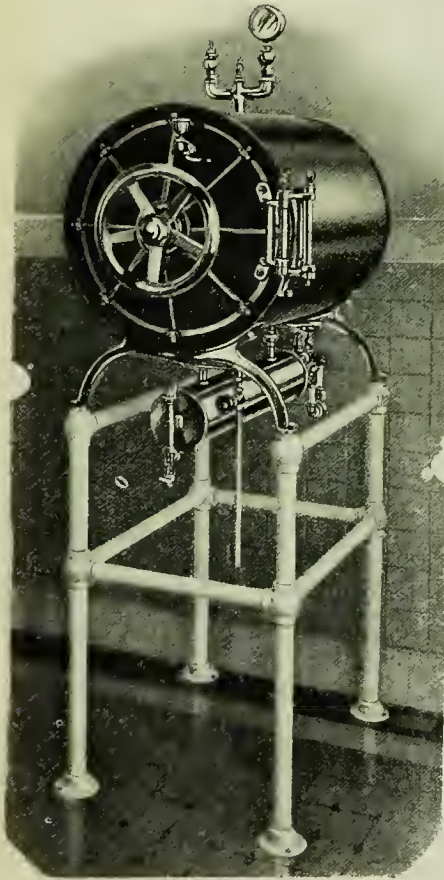
1467a

- 1467a.* Window Tent, Walsh's, for tuberculous patients; fits any window . . . \$12 50
- 1469a.* Sputum Cups, paper, Seabury & Johnson's, pkg. of 20, 25c.; per 100 . . . 1 00
- 1469b.* " " " " "Burnitol," with lid, per package of 100 . . . 1 50
- 1469c.* " " " " " " for the pocket folding, pkg. of 20, 40c.; per 100 . . . 2 00
- 1470a.* " " Flask, metal, nickel-plated, Knopf's, for pocket, oval form . . . 1 50
- 1470b.* " " " " "Discreet," for pocket . . . 1 75
- 1470c.* " " glass, with metal mountings and funnel, spring lid . . . 1 75
- 1470d.* " " " " screw top cap and flushing cap . . . 50
- 1471a.* " " Cup Holder, for S. & J. paper cups . . . 25
- 1471b.* " " " " with cup, all metal, nickel-plated. The cover is easily opened by pressing the handles and is self-closing, it is secured to an adjustable extension bracket which can be attached to a clamp to bed post . . . 3 50

Special Prices to Institutions in Quantity Orders.

Hospital and Operating Room Furniture.

STERILIZERS.



1473

1473.* "American" Dressing Sterilizer.

It represents the acme of perfection in the construction of pressure sterilizers on account of its simplicity of model, the selection of the best adapted materials and the highest grade of workmanship. These features insure the most practical, durable and economical apparatus which it is possible to make.

It is of the double cylinder type, with steam space entirely surrounding the sterilizing chamber except at door end. There is no cast iron used in its construction, and with the independent steam generator it insures the highest efficiency. Mounted on white enameled tubular steel stand. Made in three classes and in six sizes.

The "American" Dressing Sterilizer is furnished as desired for either steam, gas, electric or kerosene heat. The prices quoted below are based on construction for either steam or gas heat.

CLASS "A." Ebonized steel door and end; cold drawn riveted copper shell (tinned inside) forming walls of sterilizing chamber; polished copper jacket; polished brass fittings.

CLASS "B." Standard Finish. Ebonized or ebony enameled bronze door and frame with copper end; seamless drawn brass or copper shell (tinned inside) forming walls of sterilizing chamber; jacket and all fittings highly polished and nickel-plated.

CLASS "C." Bronze, copper and brass construction throughout; exterior highly polished. Seamless drawn brass or copper shell (tinned inside) forming walls of sterilizing chamber; fittings highly polished brass.

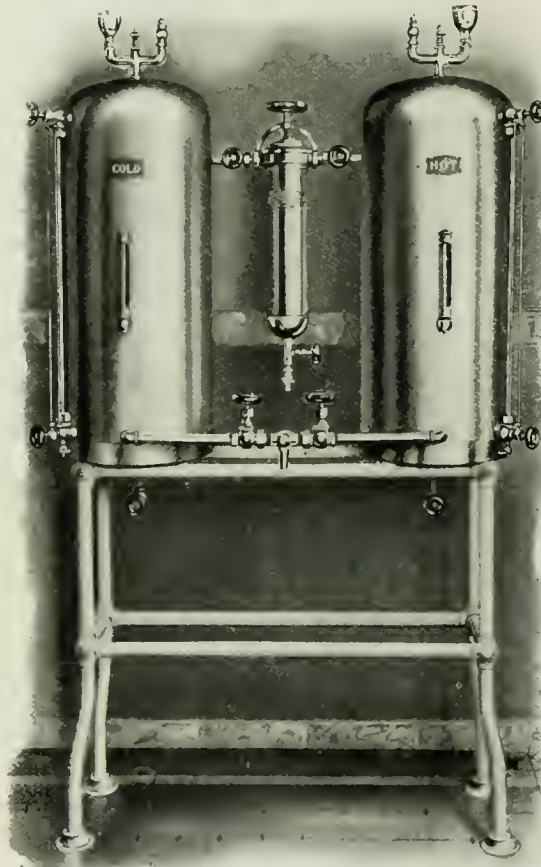
Sizes and Prices.

	9x19 in.	12x20 in.	14x22 in.	16x24 in.	20x28 in.	24x32 in.
Class A	\$125 00	\$200 00	\$250 00	\$275 00	\$375 00	\$600 00
Class B	150 00	225 00	300 00	325 00	425 00	650 00
Class C	165 00	250 00	350 00	425 00	600 00	825 00

Fully descriptive circular on application. Correspondence invited.

Hospital and Operating Room Furniture.

STERILIZERS.



1474

1474.* "American" Water Sterilizer. In this type we present an entirely new construction. It is the only apparatus of its kind that is accessible in the matter of thorough cleansing. Other types may be "cleaned at" by removing the top, but it is impossible to clean them thoroughly. The "American" has a joint at the bottom and removable shell which permits of a thorough cleaning of coils, shell and bottom where sediment naturally settles. The shells are of seamless brass or copper with nicely rounded dome-tops, all in one piece. The whole apparatus is constructed of the best material and is of the highest class of workmanship. Mounted on white enameled tubular steel stand. Made in three classes and in seven sizes, for either steam, gas, electric or oil heating as desired. Prices quoted below are based on construction for either steam or gas heat.

CLASS "A." Highly polished cold rolled riveted copper reservoirs with oval tops; polished brass fittings; separate draw-offs.

CLASS "B." Standard Finish. Reservoirs of cold drawn *seamless* brass or copper shells, highly polished and heavily nickel-plated, tinned inside; bronze castings with nickel-plated brass fittings; combination draw-off.

CLASS "C." Reservoirs of cold drawn *seamless* brass shells, highly polished, tinned inside; bronze castings; polished brass fittings; combination draw-off.

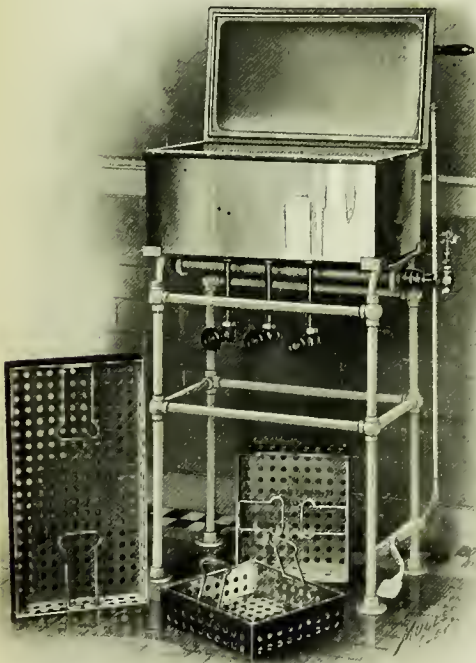
Sizes and Prices.

	6 gal.	15 gal.	20 gal.	25 gal.	50 gal.	75 gal.	100 gal.
Class A . .	\$150 00	\$250 00	\$325 00	\$400 00	\$600 00	\$750 00	\$900 00
Class B . .	175 00	300 00	375 00	450 00	675 00	825 00	1,000 00
Class C . .	200 00	350 00	425 00	500 00	750 00	950 00	1,100 00

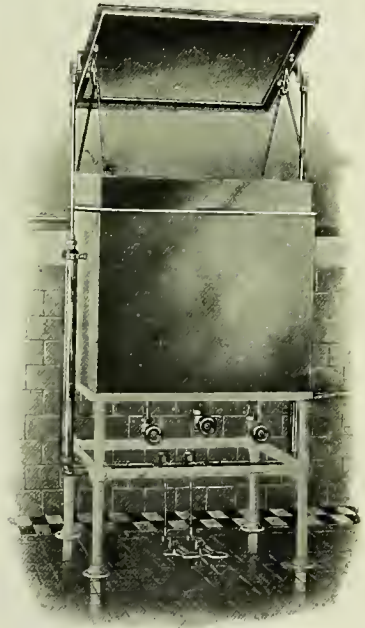
Fully descriptive circular on application. Correspondence invited.

Hospital and Operating Room Furniture.

STERILIZERS.



1479



1479a

- 1479.* "American" Instrument Sterilizer. Made of extra heavy copper or brass of the highest quality, with seamless oval dome cover raised by side handle or foot lever. Interior and trays heavily tinned. Mounted on white enameled steel stand. Designed for heating by either steam, gas, electricity, kerosene, alcohol or gasoline. Four sizes. Prices quoted are based on construction for either steam or gas heat.
- No. 2½; size of chamber, 6 in. deep, 10 in. wide, 20 in. long; with perforated tray;
finished in either copper or brass, \$45 00; . . . nickel plated \$50 00
- No. 3; size of chamber, 7 in. deep, 12 in. wide, 22 in. long; with perforated tray;
finished in either copper or brass, \$55 00; . . . nickel plated 60 00
- No. 4; size of chamber, 9 in. deep, 12 in. wide, 22 in. long; with one full and two half size perforated trays;
finished in either copper or brass, \$65 00; . . . nickel plated 75 00
- No. 5; size of chamber, 10 in. deep, 16 in. wide, 24 in. long; with two full size perforated trays;
finished in either copper or brass, \$90 00; . . . nickel plated 100 00
- 1479a.* "American" Bowl and Utensil Sterilizer. The most perfect and easily operated apparatus made. No levers, gearing or windlass to handle, as the cover is operated hydraulically by means of foot pedals. Mounted on white enameled steel stand. Prices quoted are based on construction for either steam or gas heat.
- No. 6; size of chamber, 20 in. deep, 20 in. wide, 24 in. long;
finished in either copper or brass, \$110 00; . . . nickel plated 120 00
- No. 7; size of chamber, 20 in. deep, 24 in. wide, 30 in. long;
finished in either copper or brass, \$120 00; . . . nickel plated 130 00
- No. 8; size of chamber, 24 in. deep, 24 in. wide, 30 in. long;
finished in either copper or brass, \$130 00; . . . nickel plated 140 00
- Complete descriptive circular on application.
Prices on Combination Outfits on Single Stand on application.

Hospital Operating Room Furniture. STERILIZERS.



1483-1484



1483a -1484

Portable Retainer Boxes, for Preserving and Conveying Sterilized Dressings, Etc.

Regularly made of extra heavy sheet copper, highly polished, nickel plated outside and tinned inside, in both Cylindrical and Rectangular forms, to fit all standard sizes of Pressure Dressing Sterilizers. Two boxes are usually placed in a sterilizer at a time, with steam ports open, the articles being arranged as they will be required during an operation; after sterilization the ports are closed and remain sealed until needed, when they are placed on a special stand in operating room as shown in illustrations. Standard sizes as follows. Special sizes to order.

1483.*	Cylindrical.		Each
	11 in. diameter, 8½ in. high; two boxes fitting a	12x20 in. Sterilizer . .	\$20 00
	13 " " 9½ " " " " " " " " " 14x22 " " " . .		22 50
	15 " " 11 " " " " " " " " " 16x24 " " " . .		25 00
	17 " " 12 " " " " " " " " " 18x26 " " " . .		30 00
	19 " " 8½ " " three " " " " " 20x28 " " " . .		30 00
	19 " " 12 " " two " " " " " 20x28 " " " . .		35 00
	23 " " 10 " " three " " " " " 24x32 " " " . .		35 00
	23 " " 15 " " two " " " " " 24x32 " " " . .		40 00
1483a.*	Rectangular.		
	10 in. wide, 12 in. long, 6 in. deep		25 00
	12 " " 15 " " 7 " "		30 00
	14 " " 20 " " 7 " "		37 50

1484.* White Enamelled Steel Stand, with foot pedal for opening and closing cover, to fit any of above boxes 9 00

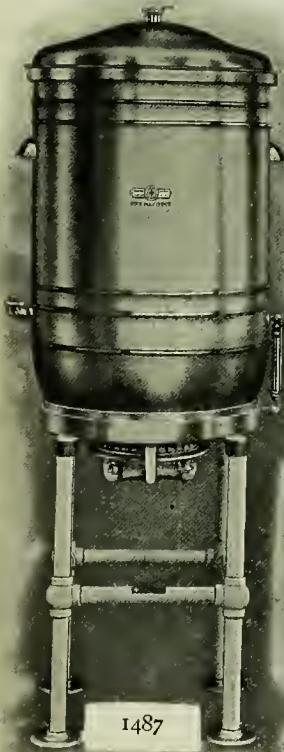
We quote price of stand separately as two or more retainers are generally used with a single stand.

Electric heating attachment to stand, when desired, furnished at small additional cost.

Apply for special catalogue and circulars of other styles of Retainer Boxes.

Hospital, Operating Room and Office Furniture.

STERILIZERS.



1487.* "Scanlan" Dressing Sterilizer. It represents the latest improvements in low pressure apparatus, having a perfect circulation, and therefore a positive penetration, insuring absolutely sterile dressings.

Made of heavy cold-rolled copper, polished and nickel-plated. Inner cylinder coated with pure tin. Fittings of brass, nickel-plated. Equipped with water gauge. Perforated copper shelf. Mounted on white enameled tubular iron stand. Two sizes:

- No. 1, size of chamber 14 x 16 inches; for gas or gasoline heat . . . \$65 00
- No. 2, size of chamber 18 x 22 inches; for gas or gasoline heat . . . 95 00
- for steam heat 110 00

1488.* Office Water Sterilizer. Made of copper, nickel-plated. Combination water gauge and draw-off faucet. Mounted on white enameled tubular iron stand; equipped with either gas or gasoline burner. Two sizes:

- Three-gallon size 16 50
- Five-gallon size 21 20

Write for Special Catalogues of Sterilizers.

*All articles illustrated are designated by a *.*

Hospital, Operating Room and Office Furniture.

STERILIZERS.



1489b

1489. "Rochester" Sterilizing Outfits, on white enameled stand, with Bunsen gas burner under each sterilizer.
 Hospital sizes: Instrument Sterilizer, 24 x 12 x 7 in.; Dressing Sterilizer, 22 x 10 x 10 in.; Water Sterilizer, 5 gallons.
 Physicians' sizes: Instrument Sterilizer, 17 x 8 x 6 in.; Dressing Sterilizer, 16 x 6 $\frac{3}{4}$ x 7 in.; Water Sterilizer, 3 gallons.
- 1489a. Four-Piece Outfit, consisting of Instrument Sterilizer, Dressing Sterilizer and two Water Sterilizers:
 Polished copper, hospital size, \$110.00; physicians' size \$60 00
 Nickel-plated, " " 122.00; " " 65 50
- 1489b.* Three-Piece Outfit, consisting of one each Instrument Sterilizer, Dressing Sterilizer and Water Sterilizer:
 Polished copper, hospital size, \$90.00; physicians' size 45 00
 Nickel-plated, " " 100.00; " " 50 00
- 1489c. Two-Piece Outfit, consisting of Dressing Sterilizer and Water Sterilizer:
 Polished copper, hospital size, \$65.00; physicians' size 35 00
 Nickel-plated, " " 72.00; " " 38 50
- Special Catalogues of Sterilizers on application. Correspondence invited.

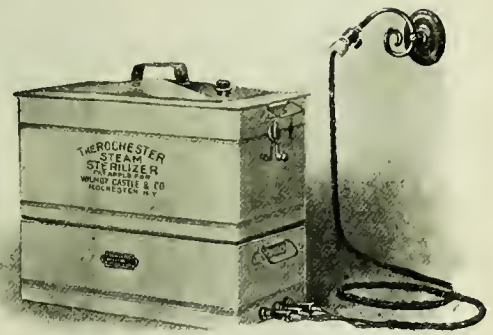
*All articles illustrated are designated by a *.*

Hospital and Office Supplies.

STERILIZERS.



1481



1482

1481.* Sterilizer, "Rochester" portable combination pattern.

This sterilizer is so constructed that dry heat or steam can be turned into the sterilizing chamber at will by simply opening or shutting a valve. Thus instruments and dressings can be heated by hot air up to about 212° F., then steam can be turned in, and after the articles are sterilized they can be thoroughly dried off again. It is very simple, consisting only of a removable base on which is set a double walled box, the outer wall of which rests in a groove or water joint on the base. It contains two removable wire cloth racks, one for instruments and the other for dressings, etc. The steam is introduced at the top of the sterilizing chamber and passes out of a tube at the bottom into the base again. There is an opening at the top in which a thermometer can be placed if desired.

No. 104, 14	in. long,	6	in. wide,	6	in. high,	heavy tin, copper bottom.	\$6 00
No. 106, 16	" "	6¾	" "	7	" "	" " " "	7 00
No. 108, 18	" "	7½	" "	8	" "	" " " "	8 00
No. 107, 7½	" "	3½	" "	3	" "	polished copper, tin-lined.	7 00
No. 110, 10	" "	4¼	" "	4¼	" "	" " " "	9 00
No. 114, 14	" "	6	" "	6	" "	" " " "	15 00
No. 116, 16	" "	6¾	" "	7	" "	" " " "	17 50
No. 118, 18	" "	7½	" "	8	" "	" " " "	20 00
No. 122, 22	" "	10	" "	10	" "	" " " "	40 00

Nickel-plating \$1, \$1 25, \$1 50, \$2, \$2 50 and \$5 extra, according to size.

1482.* Sterilizer, "Rochester" portable combination pattern, same model as No. 1481; fitted with the Prometheus system of electric heating.

No. 107¾, 7½	in. long,	3½	in. wide,	3	in. high,	polished copper, tin-lined	\$18 00
No. 110¾, 10	" "	4¼	" "	4¼	" "	" " " "	22 00
No. 114¾, 14	" "	6	" "	6	" "	" " " "	30 00
No. 116¾, 16	" "	6¾	" "	7	" "	" " " "	35 00
No. 118¾, 18	" "	7½	" "	8	" "	" " " "	40 00
No. 122¾, 22	" "	10	" "	10	" "	" " " "	65 00

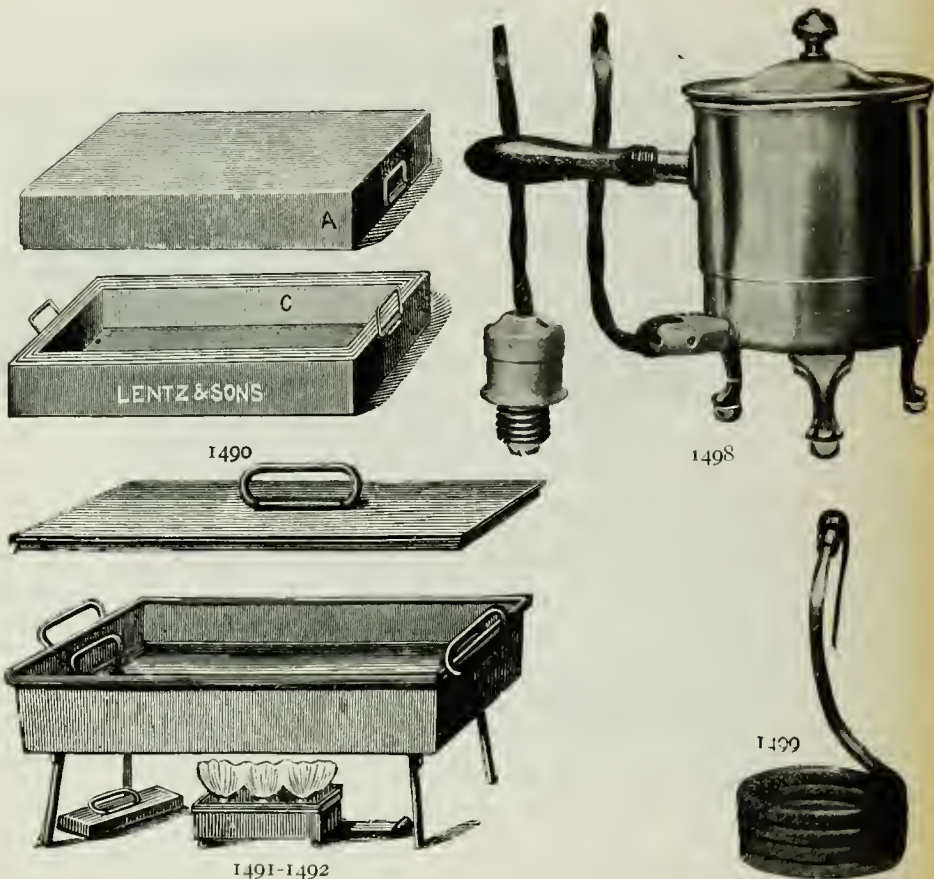
Nickel-plating \$1, \$1 25, \$1 50, \$2, \$2 50 and \$5 extra, according to size.

Write for complete catalogue of "Rochester" sterilizers.

NOTE:—For gas and alcohol burners, and for stands, see page 141.

*All articles illustrated are designated by a *.*

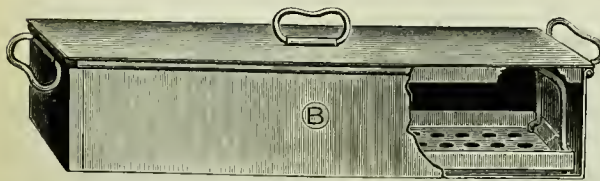
Hospital and Office Supplies.
STERILIZERS.



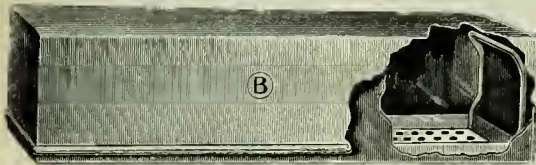
- 1490.* Sterilizer, Downes' portable, for instruments; trays nickel-plated.
 Set of four telescoping trays, folding stand and two lamps . . . \$8 25
 " " two " " " " " " " " . . . 4 75
 The largest tray measures 13¼ x 6⅛ x 1½ inches. Fits into the bottom of a 14 inch cabin bag.
- 1491.* Sterilizer, Rotter's portable, for instruments; heavily tinned steel,
 per set 8 00
- 1492.* " " " " " " " " " " " " " " " " copper . . . " " " " 10 00
 The sterilizer consists of a nest of three metal boxes with covers, each fitted with a perforated tray; a folding stand, and an asbestos filled alcohol lamp rendering sufficient heat to bring water to the boiling point within four minutes.
 We can furnish either size with perforated tray as follows:
1493. Small size, 6½ x 4½ x 1¼ inches . . . tinned steel, \$1 75; copper 2 25
 1494. Medium size, 9 x 5 x 1½ inches . . . " " " 2 00; " " 2 80
 1495. Large size, 13 x 6 x 2¼ inches . . . " " " 2 50; " " 3 60
 1496. Folding Stand, Rotters . . . " " " 50; " " 60
 1497. Alcohol Lamp, " " " " " " " " " " " " 1 00;
- 1498.* Electric Sterilizer or Food Warmer, one quart, nickel-plated; very convenient for the sterilization of small instruments; for both direct and alternating currents of 110 volts; with 6 ft. cord and plug 6 50
- 1499.* Electric Immersion Coil, for heating the water in any sterilizer by simply placing the connected coil inside; for both direct and alternating currents of 110 volts; specify shape and dimensions of sterilizer, also current available. According to size, \$6 50 to 18 00

Hospital and Office Supplies.

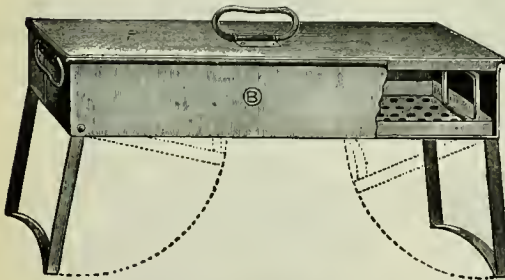
STERILIZERS.



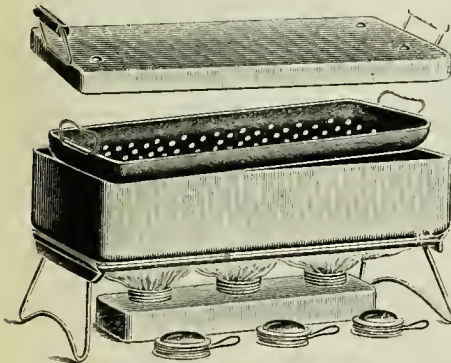
1508.* Sterilizer, portable, for instruments; polished copper, tinned inside; perforated tray; size, 15 x 3 x 3 inches \$2 95



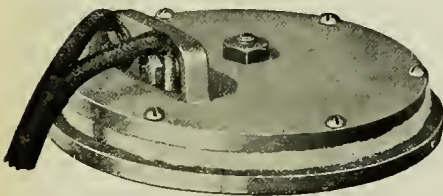
1513.* Sterilizer, portable for instruments, with telescoping lid; polished copper, tinned inside; perforated tray; size, 15 x 3½ x 3½ in. 4 85



1514.* Sterilizer, portable, for instruments; polished copper, tinned inside; perforated tray; supported on folding legs. Fits snugly into lower compartment of Bags Nos. 4068 A, B and C.
Size 16 x 6 x 3 inches 4 50
Size 17½ x 6 x 3 inches 5 00



1517.* Sterilizer, portable. Gussmann's. Bottom and lid are machine stamped from sheet brass; no leaks from soldered or riveted joints. Supported on folding legs. Polished and heavily nickel-plated. Size, 13¾ x 6¾ x 3 inches. Including wire gauze tray and an improved three-burner alcohol lamp 12 00



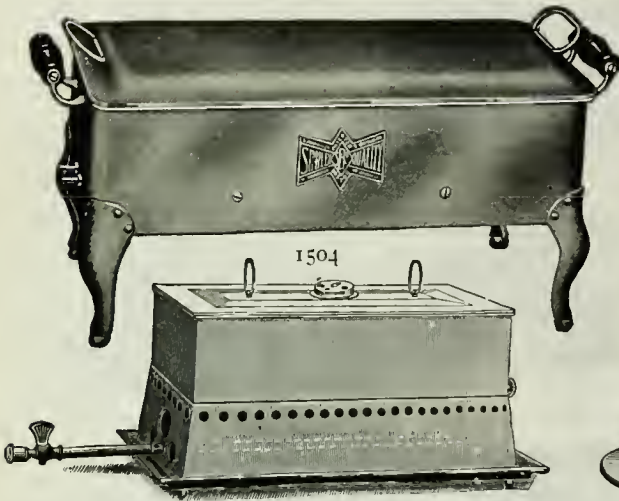
1519.* Electric Heater, self attaching (directions furnished); suitable for any sterilizer or other vessel in which water is heated except aluminum and enamel ware; for both direct and alternating currents of 110 or 220 volts; amperage, 4 to 14. Specify dimensions of sterilizer 4 50



1519a.* Heat Unit Renewal for Fig. 1519 35
*All articles illustrated are designated by a *.*

Hospital and Office Supplies.

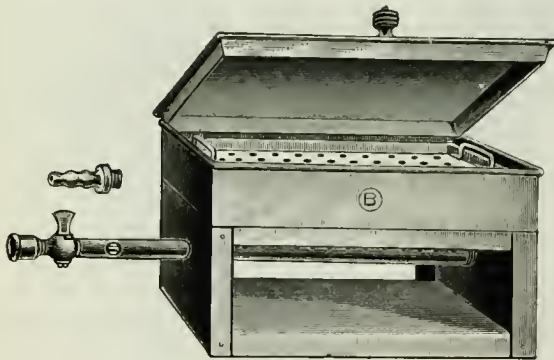
STERILIZERS.



1500



1505



1506

1500.* Sterilizer, Franklin's; copper, nickel-plated; with Bunsen burner, valve to drain the water, and ventilator in lid for the escape of steam; including perforated tray and 6 ft. mohair covered gas tubing: -small size,

12 x 5 x 3 in.	\$14 00
large size,	
15 x 6½ x 4½ in.	16 50
extra large, 18 x 9 x 6 in.; double Bunsen burner; water gauge .	27 75

1504.* Sterilizer, electrical, "Simplex;" copper, nickel-plated, tin lined; including perforated tray and 5 ft. conducting cord with connector. Very convenient and economical. Specify whether for direct or alternating current, also voltage.

8 x 3½ x 2 in., no handles, with lamp socket plug	10 00
10 x 4¾ x 2 in., with handles and lamp socket plug	12 00
13 x 6½ x 2½ in., with handles, no plug	14 00

1505.* Sterilizer, "Phila.," for the specialist. Upright form, copper, nickel-plated; with a circular Bunsen burner, and in addition with a small pilot which may be kept burning continually and which produces just enough heat to keep the water hot; extreme height, 10 in.; diameter of base, 8 in.

11 00

1506.* Sterilizer, "IXL," copper, nickel-plated; with hinged lid, perforated tray, and full-length Bunsen burner; mounted on base three inches high; small size, 8 x 6 x 2 inches; medium size, 12 x 7 x 3 inches; large size, 16 x 7 x 4 inches

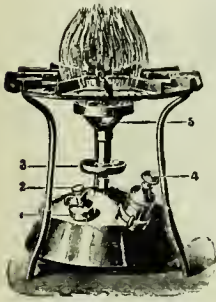
7 90
9 75
12 50

*All articles illustrated are designated by a *.*

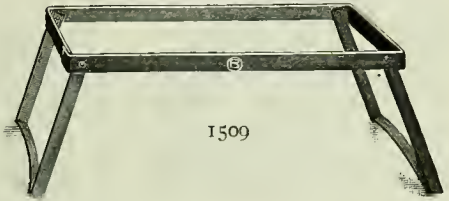
Hospital and Office Supplies

STERILIZER STANDS.

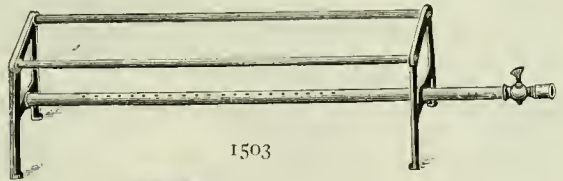
HEATERS.



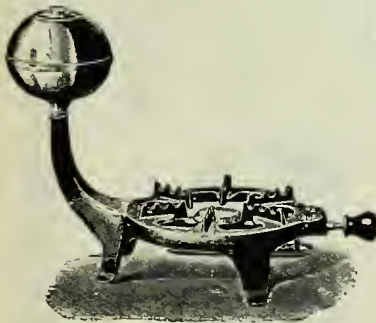
1502a



1509



1503



1523



1512



1510



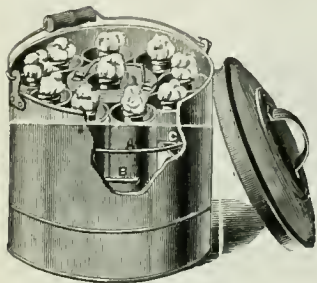
1524

- 1509.* Sterilizer Stand, folding, made of iron, black finish; size, 11 x 5½ x 5 inches \$0 60
- 1503.* " " with gas burner; made of iron, black finish; three lengths; 8½ inches, \$1 75; 12 inches, \$1 85; 15 inches, 2 00
- 1510.* Alcohol Lamp, "Rochester," with folding supports . . . tin, \$1 00; copper, 1 50
- 1512.* Gas Burner, "Gem" . . . single, 75c.; double, 1 50
- 1502a. Blast Lamp, "Jewel"; made of brass, and so constructed as to be non-explosive; it is capable of producing very high temperature; burns any grade of kerosene oil; capacity, one quart . . . 4 00
- 1523.* Alcohol Stove, "Norma," nickel-plated;
 No. 1, capacity one pint, with one burner . . . 3 50
 No. 2, capacity one quart, with two burners . . . 7 00
- 1524.* Electric Stove, "Simplex"; mounted on enameled slate base; provided with regulating switch for the selection of either of three degrees of heat; with 6 ft. conducting cord. Specify whether for direct or alternating current; also voltage.
 4½ in. diam., \$6 00; 6 in. diam., \$8 00; 7 in. diam., 9 00
- 1524a. Forceps for removing instruments from sterilizers;
 Plain ring handle, 10 inches long . . . 1 75
 Three pronged, large, 12 inches long . . . 2 75
 Van der Poel's, 12 inches long . . . 3 50

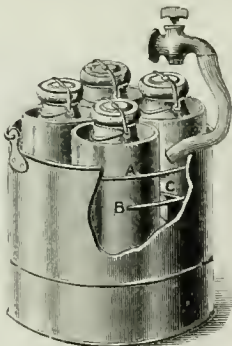
*All articles illustrated are designated by a *.*

Hospital and Patients' Necessities.

MILK MODIFIERS.



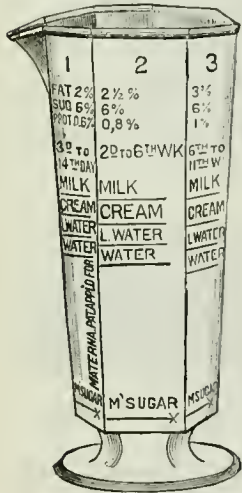
1518
Showing the apparatus arranged for heating the milk before the pail is covered.



1518
Showing the apparatus arranged for cooling the milk.



1520



1521

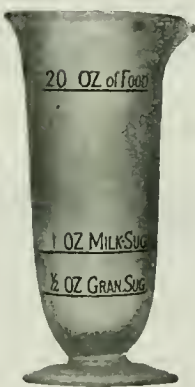


Fig. 1

1529



Fig. 2



1533



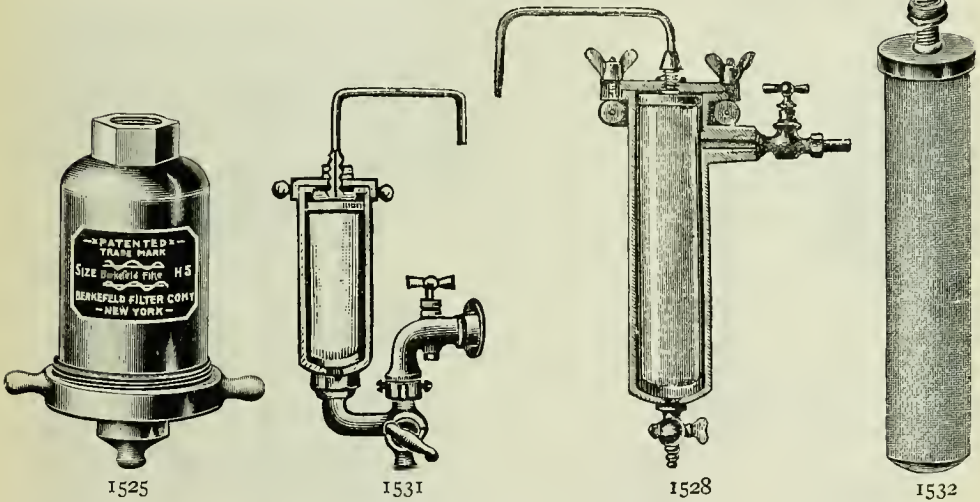
1522

- | | | |
|--------|--|---------|
| 1518.* | Pasteurizer, Freeman's, for low-temperature sterilization of milk . . . | \$4 50† |
| | Made in two sizes, viz.: with seven 8 oz. bottles, or with ten 6 oz. bottles. Specify size desired. | |
| | Pasteurization of milk consists in heating it rapidly to about 155° F., retaining it at that temperature for thirty minutes, and then cooling it rapidly to 68° F. | |
| | Full directions accompany each pasteurizer. | |
| | Bottles for Freeman's Pasteurizer, 8 oz. or 6 oz., 90c. per dozen. | |
| 1520.* | Sterilizer, Arnold's, for milk. | |
| No. 7, | heavy tin, copper bottom, with rack, cleaning brush and 7 bottles | 3 00† |
| " 8, | " " " " " " 8 " | 3 50† |
| " 10, | " " " " " " 10 " | 4 00† |
| " 12, | " " " " " " 12 " | 4 50† |
| | Bottles for Arnold's Sterilizer, 8 oz., 75c. per dozen. | |
| 1521.* | Glass Graduate, "Materna," for the home modification of cows' milk for artificial infant feeding | 1 50† |
| | Complete formula engraved on the surface; directions accompany each graduate. | |
| 1529.* | Maternity Milk Set, Sloane's, consisting of a 20 oz. Measuring Glass (65c.), and a Chapin Dipper (30c.) | 95 |
| | Directions accompany each set. | |
| 1533.* | Food Warmer or Cooler, "Rochester"; without bottles | 2 50† |
| 1522.* | Thermometer, 10 inches long, for pasteurizing milk, for bath, etc. | 75 |
| 1522a. | " 6 " " " " " " " | 50 |

All articles illustrated are designated by a *.

Hospital, Physicians' and Patients' Necessities.

WATER FILTERS.



Berkefeld's Bacteria-Proof Filters.

- 1525.* Small size, capacity about one gallon in five minutes at 40 lbs. pressure . . \$4 00
- 1526. Medium size, " " " " three " " " . . 6 00
- 1527. Large size, " " " " two " " " . . 8 00

The metal parts of Nos. 1525, 1526, 1527 are nickel-plated.

- 1528.* Large size, cast iron case, bronzed, and enameled inside, capacity about one gallon in two minutes at 40 lbs. pressure 12 00

Fig. 1528 should be attached direct to water pipe.

- 1530. Mountings for Filters Nos. 1525, 1526, 1527 10
Can be soldered to any kitchen spigot (state diameter of spigot).
- 1531.* Two-way Spigot and Outlet Pipe, as attached to filter shown in this illustration; for use with Nos. 1525, 1526, 1527 extra 2 00
- 1532.* Extra Cylinders, with metal caps, to replace cylinders when worn out;
small size, \$1 50; medium size, \$2 00; large size 2 50

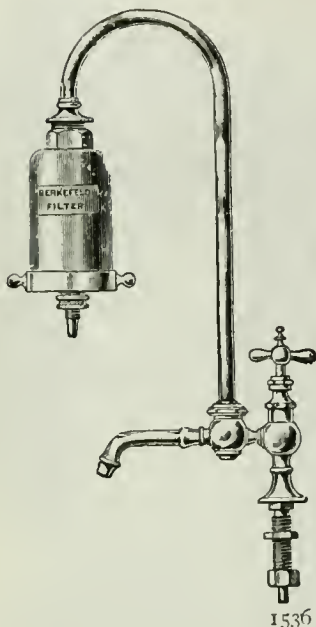
The filtering medium of the Berkefeld Filter is composed of diatomaceous earth, obtained from the Kieselguhr Fossil Meal Mines in Germany, and is peculiarly suitable for the purpose of filtration.

The Journal for Hygiene, published by Professors R. Koch, of Berlin, and Flugge, of Breslau, says in volume 10 of 1891: "It produces a filtrate perfectly free of germs for a long time. The large size cylinder gives, at a pressure of 40 pounds, one-half gallon of filtered water in a minute, a quantity which greatly surpasses that of all other germ-proof filters. This filter, therefore, answers all requirements of a house filter perfectly, and will also be largely used for numerous manufacturing and scientific purposes."

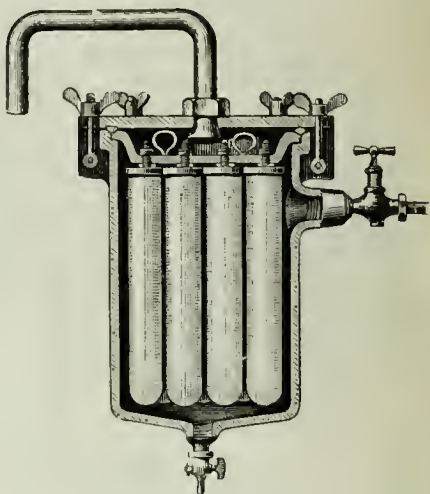
As a matter of precaution the Filter Cylinder, after a few weeks' use, should be placed in lukewarm water, and then boiled for one hour; any germs which might have penetrated into the pores of the cylinder will be destroyed by this process, and the pores thoroughly reopened.

Hospital, Physicians' and Patients' Supplies.

WATER FILTERS AND STILLS.



1536



1535

1535.* Combination Filter, large size, for filtering large quantities of water; same construction as fig. 1528, but consisting of from 3 to 15 cylinders; designed to be attached to wall, and should be connected direct to main supply pipe:

with 3 cylinders, capacity 1½ gal. per min. at 40 lbs. pressure . . .	\$35 00
“ 5 “ “ 2½ “ “ “ “ . . .	45 00
“ 9 “ “ 4½ “ “ “ “ . . .	65 00
“ 15 “ “ 7½ “ “ “ “ . . .	85 00

1536.* Filter Attachment, only, for stationary washstand. Any of our figs. 1525-27 filters can be attached 3 50

NOTE.—A filter giving 1½ gallons per minute in the beginning will not give 90 gallons in an hour, but may give only 50 gallons or even less. It all depends upon the character of the unfiltered water.



1537

1537.* Water Still, “Rochester,” 17½ in. high, 10 in. diameter:
 copper, highly polished \$12 00
 copper, nickel-plated 13 50

This water still will give from 20 to 30 quarts of Distilled Pure Water in 10 hours. It is a model of simplicity.

1538. Drinking Water Sterilizer, Forbes'; scientifically constructed. It renders the water *absolutely free from disease germs* by boiling, yet the *water remains unchanged in taste* by the boiling because it is not deprived of its natural gases, and is discharged from the apparatus at nearly the same temperature it had on entering the apparatus.

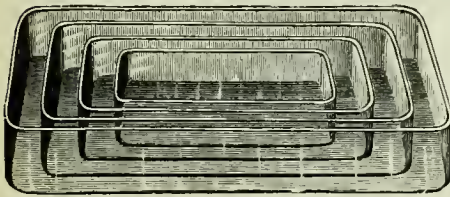
Household size, capacity 3 gallons per hour \$30 00
 Hospital sizes, prices on application.

Fully descriptive illustrated booklet sent on request.

All articles illustrated are designated by a *.

Hospital, Operating Room and Office Supplies.

TRAYS. BOWLS. FLASKS.



1541



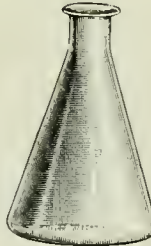
1589



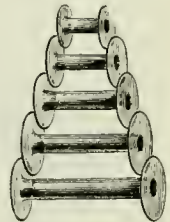
1624



1622



1594



1610

1541.* Glass Trays, long form, clear crystal, straight walls:

Size, 5 x 3 in.; depth, 1½ in.	\$0 50	Size, 10½ x 6½ in.; depth, 2¼ in.	\$1 50
" 6¾ x 4¼ " " 1¾ "	65	" 12 x 7 " " 2½ "	2 00
" 9 x 4¾ " " 2 "	1 00	" 13¾ x 8¾ " " 2¾ "	2 65

1589.* Glass Bowls, finest stout glass, rounded walls, flat bottom and polished edges; made in three colors for easily distinguishing different antiseptic solutions.

Diameter, 7½ in.;	crystal, \$0 70;	blue, \$0 85;	ruby 1 60
" 9¾ "	" " 1 00;	" 1 10;	" 2 40
" 11¾ "	" " 1 65;	" 1 80;	" 3 15
" 13¾ "	" " 2 70;	" 3 00;	" 4 75

1550. Glass Immersion Bowl, finest stout glass, wide form, for two arms; 16 in. diameter, 8 in. deep . . . crystal, \$5 00; amber, \$5 50; blue 5 75

1551. Glass Immersion Bowl, tall conical form, for arm; 16 in. deep, 9 in. diameter crystal 3 50

1594.* Flushing Flasks, glass, conical form, for sterile solutions.
1 quart, 35c.; 2 quart 55

1610.* Glass Spools, with flange ¾ in. diameter.
Per dozen—1 in., 50c.; 1¼ in., 60c.; 1½ in. 75

1622.* Iodoform Dusting Box, hard rubber 50

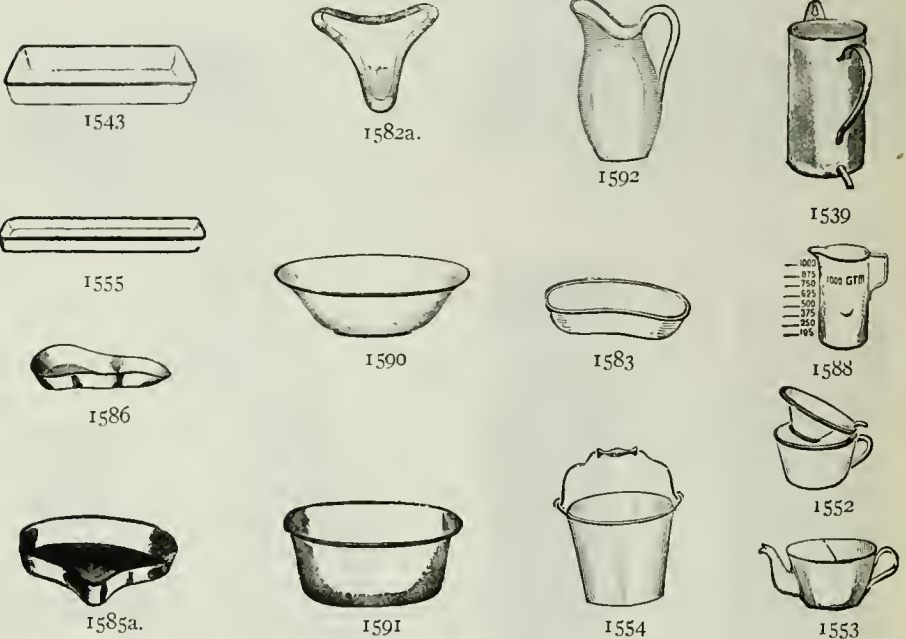
1624.* " " " metal, plated, Fowler's 60

*All articles illustrated are designated by a *.*

Hospital, Operating Room and Office Supplies.

WHITE ENAMELED WARE.

Enameled steelware is made in many grades. The cheaper grades are very unsatisfactory, as the enamel is poorly burnt and will chip, while the best, "such as we stock," are beautiful and durable, yet reasonable in price.



1543.* Instrument Trays, white enameled, steel.

8 3/4 in. x 5 1/8 in.	\$0 60
10 1/4 " x 6 1/4 "	80
11 3/4 " x 7 1/2 "	1 10
13 1/2 " x 8 1/4 "	1 35
15 " x 9 "	1 60
16 1/2 " x 9 1/2 "	2 00

Solution Basins, white enameled, steel.

6 1/4 in.	\$0 30	1591.* Deep form.	\$0 30
8 "	35		40
9 1/2 "	40		60
11 "	50		80
11 3/4 "	55		1 00
12 1/2 "	65		1 10
13 1/2 "	80		1 20
15 "	1 00		1 60

1583.* Pus Basins, white enameled, steel.

6 in.	\$0 40
7 "	40
8 "	45
9 "	50
10 "	60
12 "	80

1539.* Irrigators, white enameled, steel.

1 1/2 qt.	\$0 90
2 "	1 00
3 "	1 20
4 "	1 40
5 "	1 70

1588.* Graduated Measures, white enameled, steel.

100 gram	\$0 60
250 "	80
500 "	1 00
1,000 "	1 25
2,000 "	2 00

1592.* Solution Pitchers, white enameled, steel.

2 qt.	\$1 00
3 "	1 40
4 "	1 80
8 "	2 70

1554.* Dressing Pails, white enameled steel.

8 qt.	\$1 20, with lid \$1 50
10 "	1 30, " " 1 65
12 "	1 50, " " 1 90

1555.* Catheter Trays, white enameled steel.

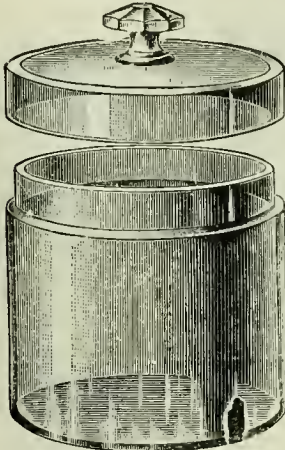
Small, 8 in.	\$0 50
Medium, 12 in.	70
Large, 16 in.	90

1582a.* Pus Basin, white enameled, steel, triangular	\$1 00
1585a.* " " " " fan shaped	1 00
1586.* " " " " Smith's	1 00
1552.* Sputum Cup, " " with hinged lid, 4 3/4 in. diam	60
1553.* Feeding " " " " spout . . . small, 6oc.; large	80
1602a. Needle Box. " " " " lid	55

We allow a liberal discount to Hospitals in quantity orders.
 All articles illustrated are designated by a *.

Hospital, Operating Room and Office Supplies.

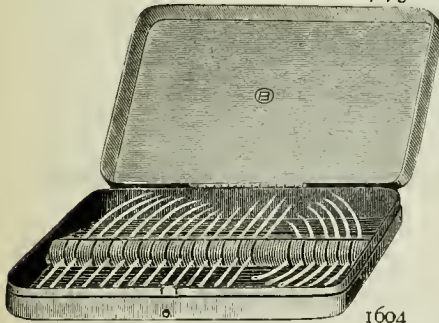
GLASS JARS.



1600

1600.* Cylinder Jars, crystal glass, with cut knobbed glass cover overlapping jar.

Diameter.	Height.	
4 in.	4 in.	\$0 75
4 3/4 "	4 3/4 "	1 00
6 "	6 "	1 35
7 "	8 1/4 "	2 25
8 1/4 "	8 1/4 "	2 65
8 3/4 "	11 "	3 35
8 3/4 "	12 "	4 00
10 "	10 "	4 75



1604

1604.* Needle Box, oblong, metal, nickel plated, with rounded corners; size 3 3/4 x 2 x 3/8 in., without needles . . . \$0 75
Case has spiral spring rack for holding needles.

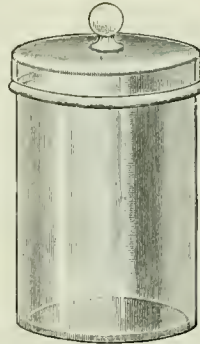


LENTZ & SONS

1605.

We keep on hand the following Labels:
 Bichloride Solution, 1: 500
 " " 1: 1000
 " " 1: 2000
 " " 1: 3000

NEEDLE BOXES.



1601

1601.* Cylinder Jars, crystal glass, with round knobbed glass cover overlapping jar.

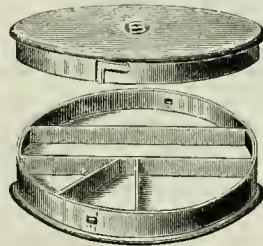
Diameter.	Height.	
4 in.	4 in.	\$0 50
4 3/4 "	4 3/4 "	75
6 "	6 "	1 00
8 1/4 "	8 1/4 "	1 90
8 3/4 "	11 "	2 70



1602

1602.* Needle Boxes, glass, round, with glass cover loosely fitting.

Diameter.	Height.	
2 in.	1 1/4 in.	\$0 25
2 3/4 "	1 1/2 "	40
3 1/2 "	1 3/4 "	50



1603

1603.* Needle Box, round, metal, nickel plated, with bayonet fittings, lined top and bottom with asbestos, rack is removable; 3 in. x 1 7/8 in. \$0 65

1605.* Floating Labels, Robb's, enclosed in a sealed glass tube floating on the surface of solutions, each, 10c.; dozen \$1 00

Sterilized Water
 Distilled Water
 Normal Salt Solution
 Permanganate Sol.

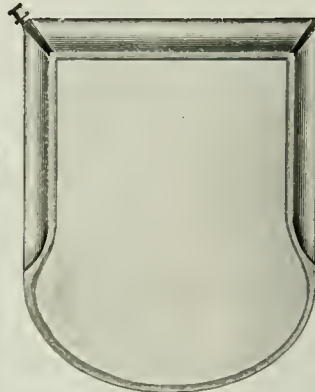
Solution, 1: 20
 " " 1: 40
 " " 1: 60

Hospital, Operating Room and Office Supplies.

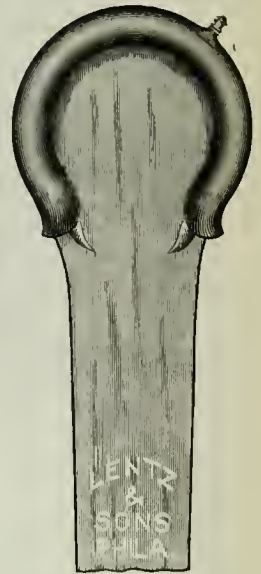
OPERATING PADS AND GLOVES.



1635-35b



1637



1630-32



1642



1639



1641

Operating Pads, Kelly's, With Inflatable Rim, Best Quality Maroon-Colored Rubber.

- 1630.* Small size, round; for perineal, cervical, and rectal operations; width, 14 in.; length, 34 in. \$4 25
- 1631.* Medium size, round; for general surgical work; width, 20 in.; length, 44 in. 5 50
- 1632.* Large size, round; for ovariectomy and obstetrical work; width, 20 in.; length, 44 in. 6 50

Operating Pads, Morrison's Improved Kelly's.

They have no space nor crevice between the inflatable rim and the pad; can be used on either side, and are very easily cleansed.

- 1635.* Small size; width, 17 in.; length, 34 in. \$4 60
- 1635a.* Medium size; width, 20 in.; length, 44 in. 5 75
- 1635b.* Large size; width, 24 in.; length, 44 in. 6 75
- 1637.* Obstetrical size; width, 20 in.; length, 33 in. 8 50

- 1642.* Edebohls' Nephrorrhaphy Cushion, soft rubber, 18 in. 4 00
- 1639.* Finger Cots, soft rubber, standard, nested, medium per doz. 50
- 1640. " " " tissue, rolled, medium " " 40
- 1641.* Rubber Gloves, soft rubber, medium weight, with gauntlets . per pair 90

NOTE.—Prices of Rubber Goods subject to change, on account of fluctuation in cost of crude rubber.

*All articles illustrated are designated by a *.*

Hospital, Operating Room and Office Supplies.

SURGEONS' APPAREL.



1645



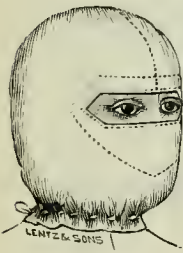
1646



1649



1648



1647a



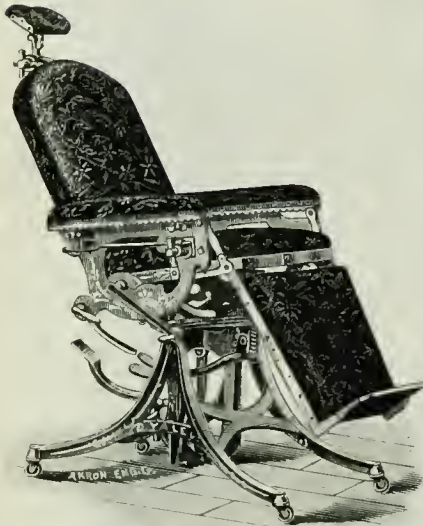
1647d

- 1645.* Operating Gown, von Bergmann's pattern, with either long or short sleeves; bleached drilling; length, 50 to 60 in.; state chest and length measures . \$1 75
- 1646.* Operating or Office Coat, white drilling, bleached and shrunk 1 50
Give circumference at axillæ, and distance from centre of back to wrist.
- 1647. Operating Apron, white rubber cloth, light; length, 50 and 54 in. 1 50
- 1647a.* " Hood, gauze, Mayo's per doz., \$3 00; each, 35
- 1647c. " Skull Cap, white drilling; state size of head 50
- 1647d.* " Cap, soft rubber, to prevent blood from getting into hair 90
- 1648.* Contagious Disease Gown, with long sleeves and hood to go over head; state chest measure and height 2 50
- 1649.* Contagious Disease Combination Suit, brown covert cloth, washable. It is large enough to slip on loosely over ordinary clothing. White cotton gloves and handkerchief included. Made in three sizes:
 small; chest, 38 to 42 in.; length, 66 to 68 in. 3 00
 medium; " 40 to 44 " " 68 to 70 " 3 00
 large; " 42 to 46 " " 70 to 72 " 3 00

*All articles illustrated are designated by a *.*

Office Furniture.

OPERATING AND EXAMINING CHAIRS AND TABLES.†



1661



1667



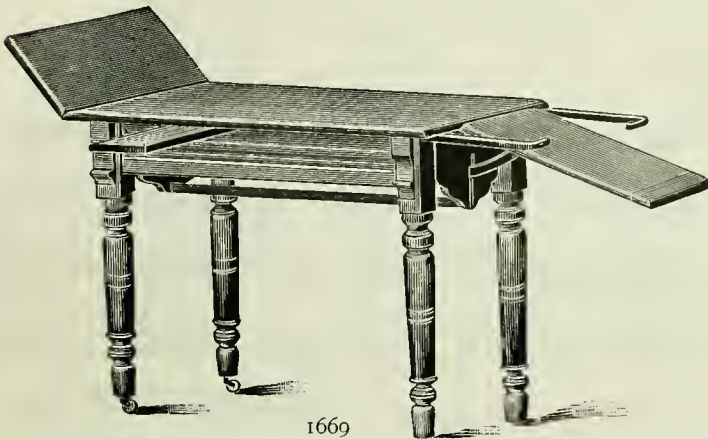
1668

- 1661.* "Yale" Operating and Examining Chair; best quality and finest work-
manship throughout; grain leather \$75 00
- 1667.* "Red Cross" Operating and Examining Chair; has the same device
for raising and lowering as the "Yale," but is constructed more
economically. It is the best chair made for the price 50 00
- 1668.* "Perfection" Operating and Examining Table. A most practical and
ornamental piece of office furniture. Easily manipulated. Constructed
in the best of manner, and includes four drawers, three glass trays,
glass shelves, leather top cushion and pillow, leg rest, crutches and
stirrups. Made in
 - quartered oak, golden polish . \$65 00
 - quartered oak, weathered oak 70 00
 - quartered oak, mission style . . 70 00
 - solid mahogany, polished 85 00
- 1663. "Allison" Operating and Examining Table; with drawers, trays, divided
leg rests, crutches and stirrups; beautifully finished in quartered oak,
walnut or cherry; polished top:
 - with leather cushion and pillow 105 00
 - without leather cushion and pillow 90 00
- 1669. "C. & R." Operating and Examining Table, any style oak finish 60 00
- 1670. " " " " " " automatic 100 00

Prices on this page are quoted F.O.B. factory, and are subject to 10% discount for cash.
Correspondence invited.

Office Furniture.

OPERATING AND TREATMENT TABLES.



1669

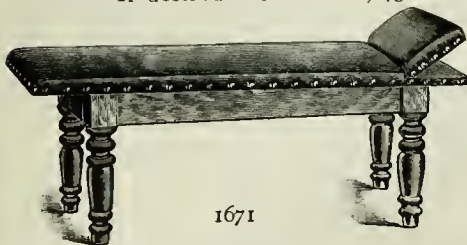
1669.* Examining Table, now made with square legs of oak; "Early English" finish, with stirrups; low priced, but practical and substantial . . . \$13 50



1670

1670.* Examining Table, "Philadelphia." It renders all the positions used in general office practice. The stirrup- and leg-rests can be raised by ratchet to any desired height. The head-rest is adjustable to any angle. The back-rest elevates from prostrate to chair position. The table is finished in either light, medium, dark or mission oak; metal parts nickel-plated or oxidized copper.

With cushion and pillow of pantosote 30 00
 " " " " leather 35 00
 If desired with drawer, \$3 00 extra.



1671

1671.* Osteopath Treatment Table, made of oak, upholstered. Constructed in very substantial manner and of best workmanship. Length, 72 inches; width, 23 inches.

No. 1, with extra heavy legs, 5 in. diam.; adjustable headrest . . 20 00
 " 2. " heavy legs, 4 in. diam.; adjustable headrest 18 00
 " 3. " " " 4 " " stationary " 15 00
 " 4. " " " 4 " " plain flat top 14 00

1672. Osteopath Treatment Table, folding, for use at patients' homes; strong and durable. Weight, 35 lbs. 6 00

*All articles illustrated are designated by a *.*

Section III. Eye Instruments.
Section IV. Ear Instruments.
Section V. Nasal Instruments.
**Section VI. Mouth and Throat
Instruments.**

We have endeavored to present in these sections a fairly complete variety of the standard and latest designs of instruments for the use of the specialist and of the general practitioner.

Special attention we desire to direct to the delicate instruments on which the success of an operation so frequently depends. Our thoroughly trained mechanics make them most accurately from select material, and they are perfect in every detail including the final sharpening and honing, every instrument being tested thoroughly before leaving our establishment. Our stock is very large and we are in position to furnish immediately nearly every instrument listed, as well as the newer patterns as they are brought forth from time to time.

Our well-equipped factory is at your command for the production of any special instrument which you desire made.

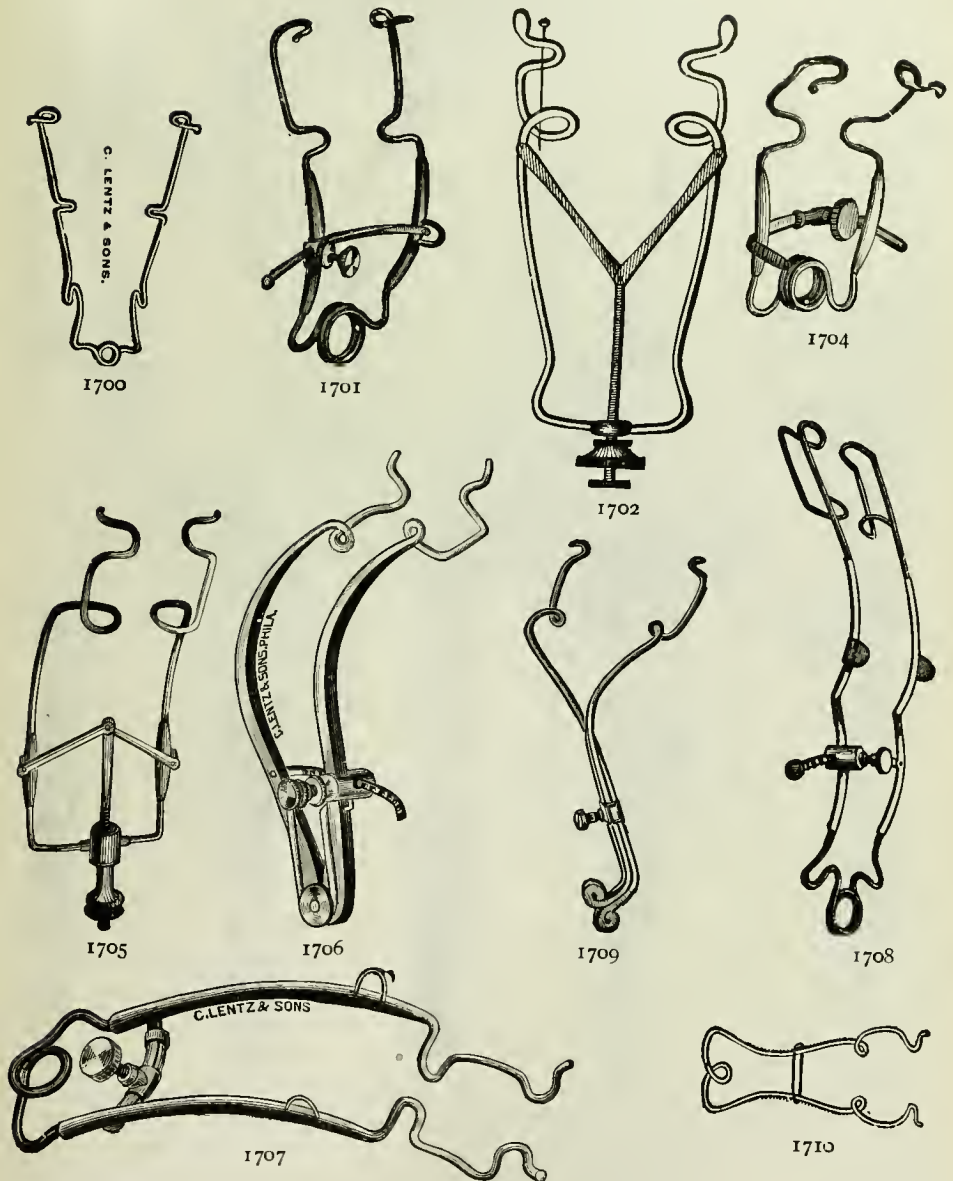
Repairing, grinding, honing, nickel plating, we do in the best of manner and at shortest notice.

Of office equipment also we have a fully representative line which we are eager to demonstrate to those who can visit our show-rooms.

Section III.

Eye Instruments.

SPECULA.

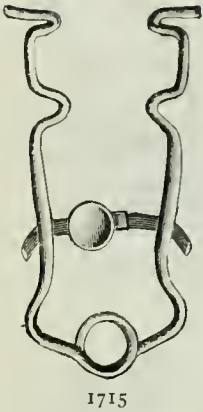


1700.*	Eye Speculum, plain wire	\$ 30
1701.*	“ “ “ “ with set screw	75
1702.*	“ “ Noyes' Improved	1 25
1703.	“ “ Pana's, parallel bars	1 50
1704.*	“ “ Liebreich's	1 50
1705.*	“ “ Galante's	1 50
1706.*	“ “ Fox's	2 00
1707.*	“ “ Snowden's Improved	1 50
1708.*	“ “ Graefe's, right and left	each 1 50
1709.*	“ “ Liebold's	1 50
1710.*	“ “ Noyes' plain	60

*All instruments illustrated are designated by a *.*

Eye Instruments.

SPECULA AND ENTROPIUM FORCEPS.



1715



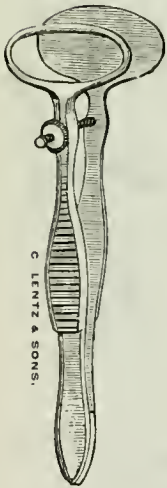
1717



1718



1719

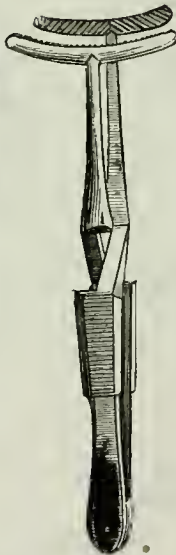


C. LENTZ & SONS.

1724



1726



1727



C. LENTZ & SONS

1728



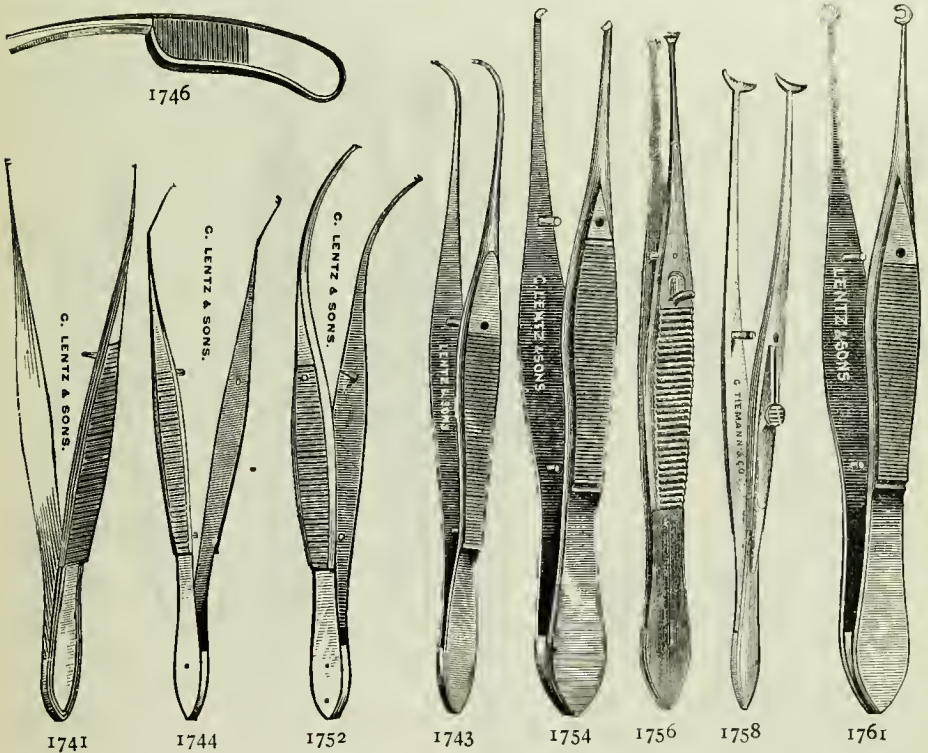
1732

1715.*	Eye Speculum, Luer's, latest pattern	.\$1	10
1716.	" " Critchett's, over nose	1	25
1717.*	" " Landolt's	1	50
1718.	" " Stevens', all metal		85
1719.*	" " Knapp's, latest pattern, separable	3	00
1720.	" " Payne's	2	25
1724.*	Entropium Forceps, Desmarre's	1	75
1725.	" " Knapp's, right and left	each	2 25
1726.*	" " Suellen's,	"	2 25
1727.*	" " cross-bar	"	2 00
1728.*	" " Lawrence's, right and left	each	2 25
1729.	" " Prout's, reversible		2 75
1731.	Trichiasis Forceps, Ratti's		2 50
1732.*	Traction Forceps, Fox's		2 25

All instruments illustrated are designated by a *.

Eye Instruments.

IRIS, STRABISMUS AND FIXATION FORCEPS.

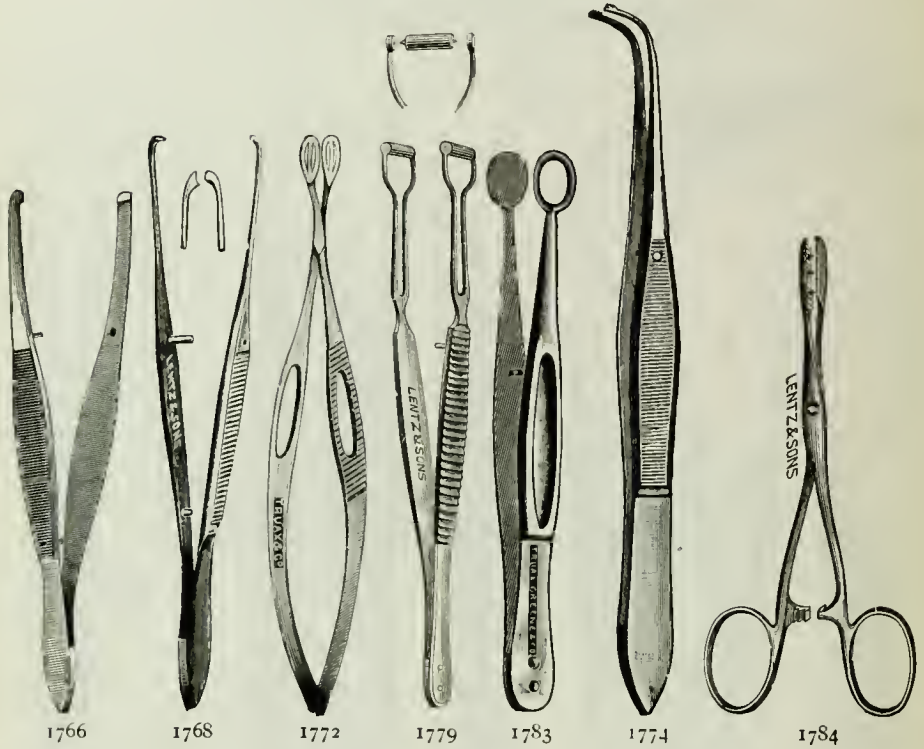


1740.	Dressing Forceps, straight, slender points, serrated	\$0 75
1741.*	Iris Forceps, straight	1 10
1742.	“ “ half curved	1 25
1743.*	“ “ full curved	1 25
1744.*	“ “ angular	1 25
1746.*	“ “ Fisher’s, short, serrated	1 25
1747.	“ “ Foerster’s, with back teeth	1 50
1748.	“ “ Liebreich’s latest improved pattern	4 25
1749.	Tendon Forceps, Stevens’, straight or curved	1 25
1750.	Iris Retractor, Valk’s	2 50
1751.	Strabismus Forceps, straight	1 00
1752.*	“ “ curved	1 00
1754.*	Fixation “ straight, Fox’s	1 75
1755.	“ “ “ Graefe’s	1 00
1756.*	“ “ “ Graefe’s, with spring catch	1 35
1757.	“ “ Stevens’, with catch	1 75
1758.*	“ “ Pyle’s, slide catch	2 25
1761.*	“ and Ligature Forceps, Fox’s	1 75

*All instruments illustrated are designated by a *.*

Eye Instruments.

CILIA AND TRACHOMA FORCEPS.

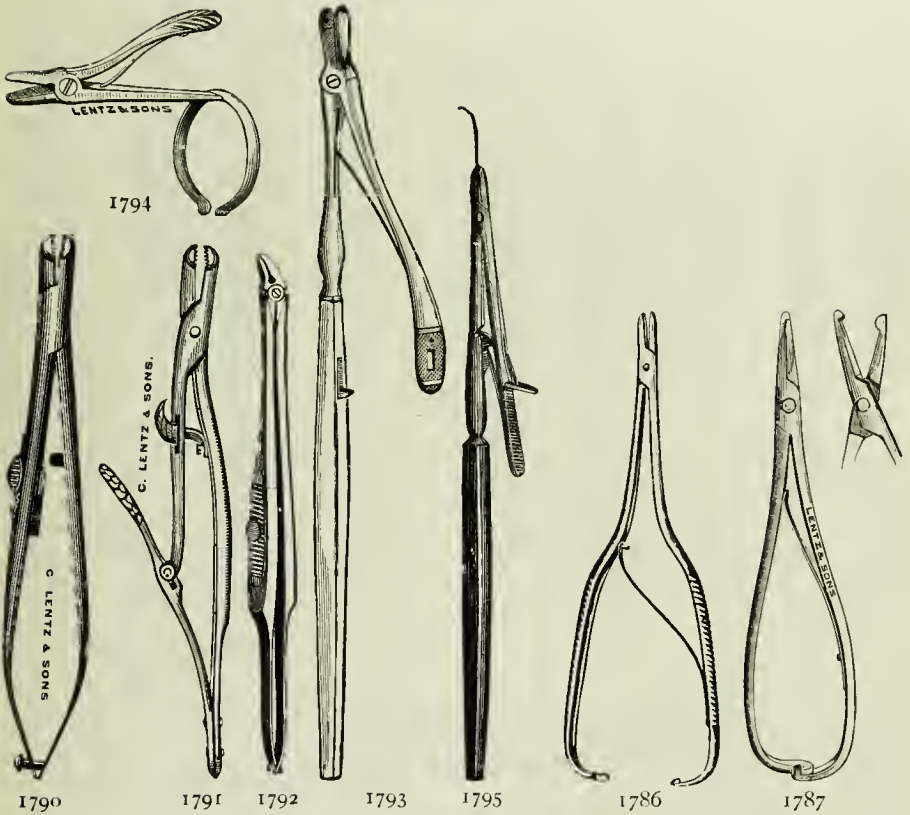


1765.	Cilia Forceps, short, plain	.. . . .	\$0 35
1766.*	“ “ fine, with narrow points	.. . . .	50
1767.	“ “ “ broad “	.. . . .	50
1768.*	“ “ May's	.. . . .	1 50
1769.	“ “ Henry's, with spring handles	.. . . .	2 00
1772.*	Foreign Body Forceps, oval tip, fenestrated	.. . . .	2 50
1773.	Capsular Forceps, Gracfe's	.. . . .	1 00
1774.*	“ “ Schweigger's	.. . . .	1 50
1775.	“ “ Knapp's	.. . . .	4 00
1776.	Advancement Forceps, Prince's	.. . . .	1 75
1777.	“ “ Fisher's	.. . . .	1 75
1778.	Enucleation and Extirpation Forceps, Blitz's	.. . . .	3 00
1779.*	Trachoma Forceps, Knapp's improved	.. . . .	2 25
1780.	“ “ Noyes', convex or concave	.. . . . each	1 50
1781.	“ “ Lambert's	.. . . .	2 75
1782.	“ “ Prince's	.. . . .	1 50
1783.*	Chalazion “ Ayer's	.. . . .	1 75
1784.*	Grattage “ Darier's	.. . . .	2 25
1785.	“ “ Week's	.. . . .	2 50

All instruments illustrated are designated by a *.

Eye Instruments.

NEEDLE HOLDERS AND SUTURE NEEDLES.

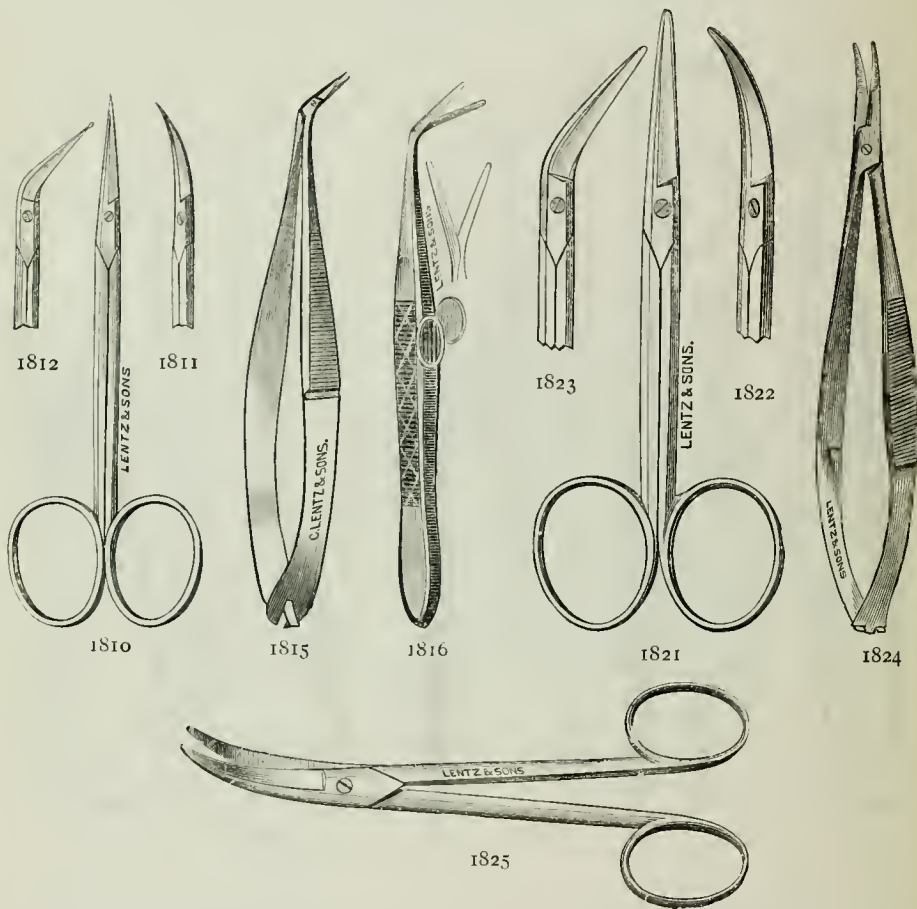


1790.*	Needle Holder, Prout's	\$2 25
1791.*	“ “ Sand's	3 00
1792.*	“ “ Levis'	3 00
1793.*	“ “ Knapp's improved, aseptic	3 50
1794.*	“ “ Galezowsky's	1 50
1795.*	“ “ Stevens', aluminum handle	3 50
1786.*	“ “ Boynton's	3 00
1787.*	“ “ Richter's	3 50
1788.	“ “ Stevenson's	3 00
1796.	“ for Advancement and Canthoplasty, Prince's	1 50
1797.	Suture Needle, Himley's, aluminum handle	1 50
1798.	“ “ with slide action, Reverdin's	4 50
1799.	“ Needles, regular, curved and half curved per dozen	60
1800.	“ Silk, white or iron dyed per reel	10

All instruments illustrated are designated by a *.

Eye Instruments.

IRIS, STRABISMUS AND ENUCLEATION SCISSORS.

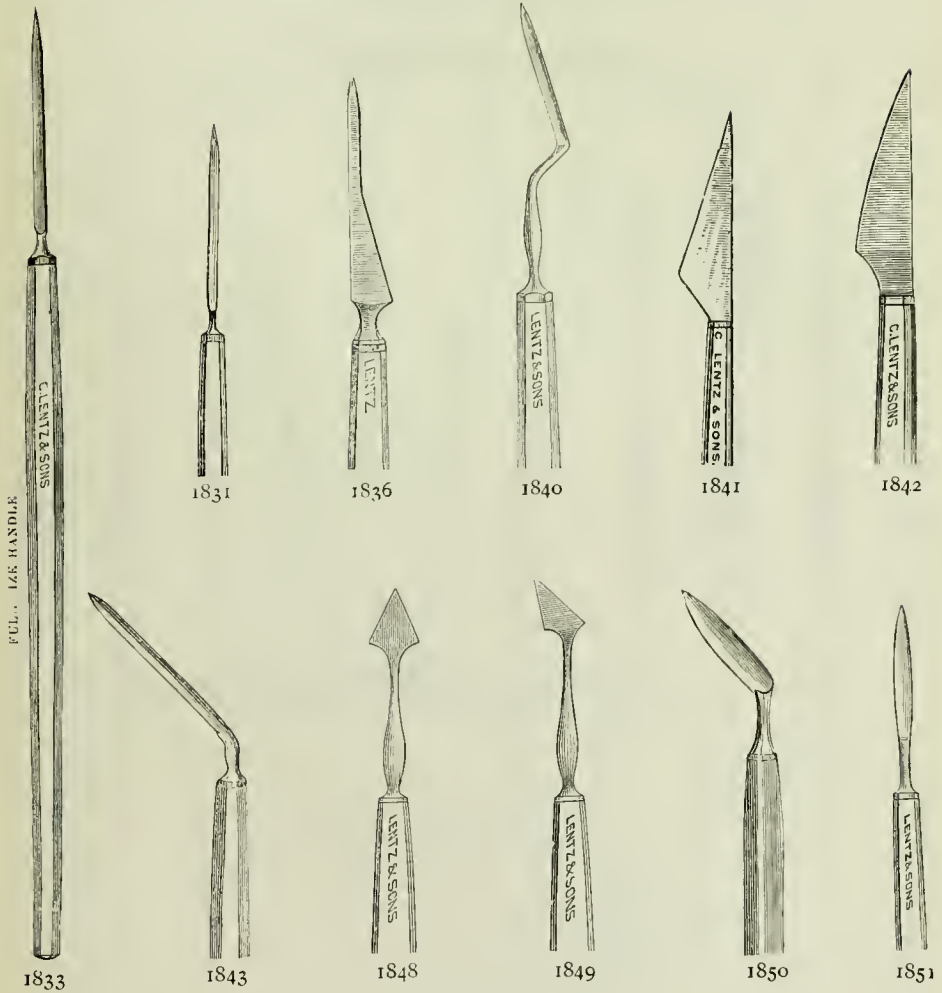


1810.*	Iris Scissors,	straight	.....	\$1 10
1811.*	"	curved on flat	.....	1 10
1812.*	"	angular	.....	1 10
1813.	"	Stevens' Tenotomy	.....	1 50
1814.	"	Noyes', with metal handle	.....	4 50
1815.*	"	McClure's	.....	3 50
1816.*	"	Wecker's	.....	4 50
1818.	Lachrymal Scissors,	Arlt's	.....	1 50
1819.	Pterygium	Chadwick's, right and left	.....	2 00
1821.*	Strabismus	straight	.....	1 10
1822.*	"	curved	.....	1 10
1823.*	"	angular	.....	1 10
1824.*	"	Jackson's	.....	3 50
1825.*	Enucleation	curved	.....	1 10
1826.	"	Norris', stout	.....	1 10
1827.	"	Warlomont's, combined with hemostatic clamp	.....	6 50
1828.	"	Spoon, Wecker's	.....	1 50
1829.	"	Wells'	.....	1 50

All instruments illustrated are designated by a *.

Eye Instruments.

CATARACT KNIVES, KERATOMES, ETC.



1831.*	Cataract Knife, Gracfe's, narrow	\$1 50
1833.*	" " " medium	1 50
1835.*	" " " wide	1 50
1836.*	" " Jackson's	1 75
1838.*	" " Knapp's, hollow ground	1 50
1840.*	" " Taylor's modified by Fox, used in operation for conical cornea	1 75
1841.*	" " Beer's, three sizes	each 1 50
1842.*	" " Zehender's	1 50
1843.*	" " Baeder's, right and left	each 1 50
1844.*	" " Siehel's	1 50
1847.*	Keratome, Weber's, angular, concave blade	2 00
1848.*	" Jaeger's, straight, three sizes	each 1 35
1849.*	" " angular,	" 1 50
1850.*	" Agnew's	1 50
1851.*	Scalpel, three sizes	1 25
1852.*	Bistoury, straight or curved	1 50

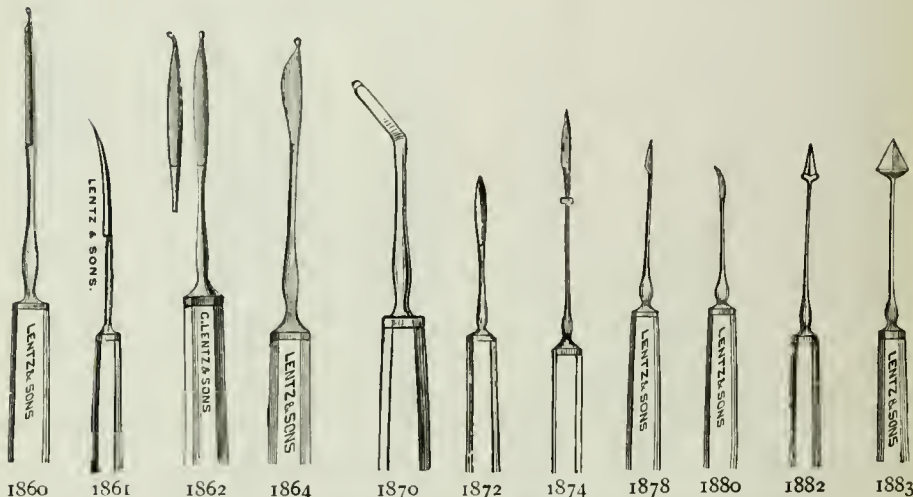
All our eye instruments are furnished with aluminum handles, unless otherwise specified.

Eye Instruments.

CANALICULUS KNIVES, PARACENTESIS AND KNIFE NEEDLES.



1867



1860 1861 1862 1864 1870 1872 1874 1878 1880 1882 1883



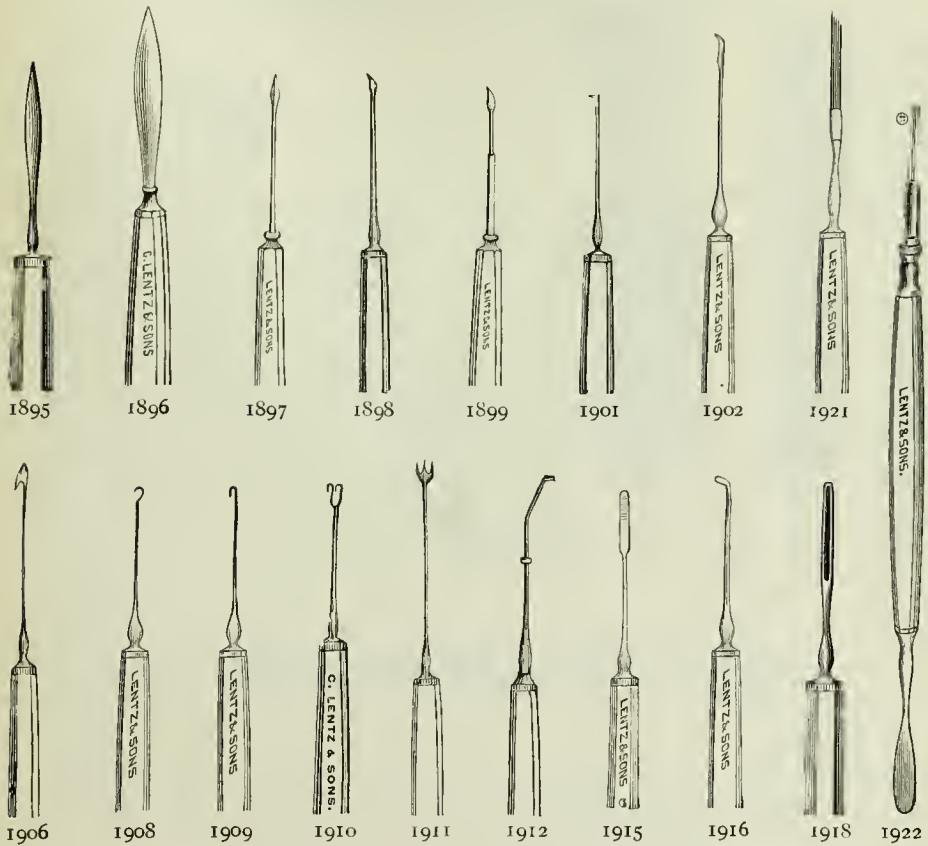
1881

1860.*	Canaliculus Knife, Weber's, probe point, straight or curved	\$1 50
1861.*	“ “ “ curved, sharp or probe point	1 50
1862.*	“ “ Bowman's, probe point straight or curved	1 50
1863.	“ “ Agnew's, with long, pliable shank	1 50
1864.*	“ “ Noyes'	1 50
1865.	“ “ Noyes'-Stilling's	1 50
1866.	“ “ Stilling's	1 50
1867.*	“ “ Thomas'	1 50
1869.	Secondary Knife, Desmarre's, concave or convex	each 1 50
1870.*	“ “ “ angular, right or left	“ 1 50
1871.	“ “ “ straight	1 25
1872.*	Iris Knife, single edge	1 25
1873.	“ “ double “	1 50
1874.*	“ “ with stop	1 50
1875.	“ “ sickel shape	1 50
1876.	“ “ Adams'	1 50
1878.*	Knife Needle, Hayes'	1 50
1879.	“ “ Knapp's	1 50
1880.*	“ “ “ curved	1 50
1881.*	“ “ Risley's	1 50
1882.*	Paracentesis Needle, Desmarre's, narrow	1 50
1883.*	“ “ “ broad	1 50

All our eye instruments are furnished with aluminum handles, unless otherwise specified.

Eye Instruments.

CYSTOTOMES, NEEDLES, HOOKS, SPUDS, ETC.

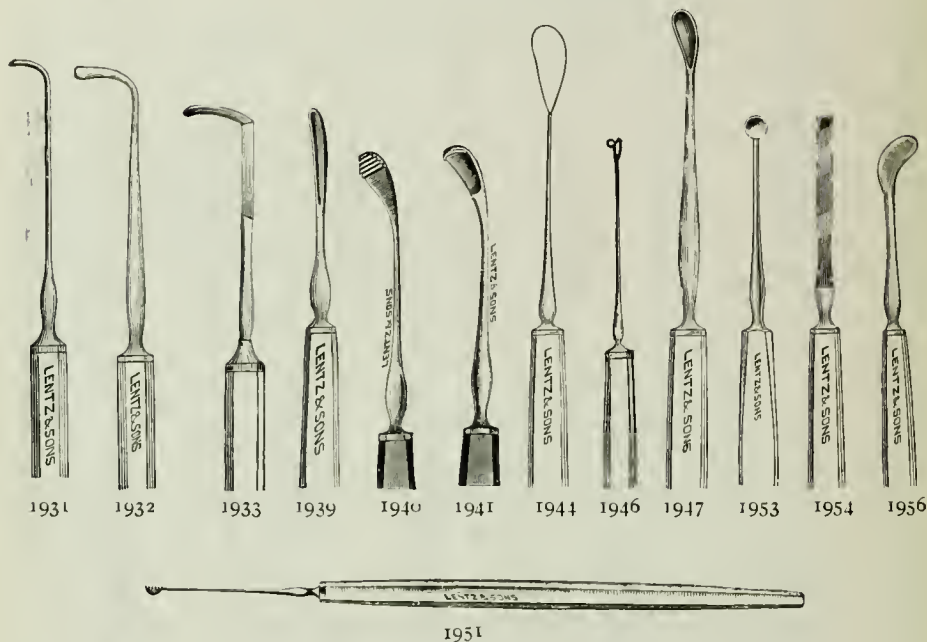


1895.*	Paracentesis Needle, broad	.....	\$1 25
1896.*	" " " extra broad	.....	1 25
1897.*	Cataract Needle, Beer's, straight	.....	1 25
1898.*	" " " curved	.....	1 25
1899.*	" " Bowman's, with stop, straight or curved	..... each	1 25
1900.*	" " narrow, straight or curved	.....	1 25
1901.*	Cystotome, Graefe's	.....	1 25
1902.*	" Knapp's	.....	1 25
1903.*	" Keyser's, hoe shape	.....	1 25
1906.*	Hooked Needle, Lazard's	.....	1 25
1907.*	Barbed Hook, Noyes'	.....	1 25
1908.*	Sharp " Tyrell's	.....	1 10
1909.*	Blunt " " "	.....	1 10
1910.*	Fixation " double	.....	1 25
1911.*	Ophthalmostate, three points	.....	1 50
1912.*	Lens Tractor, Graefe's	.....	1 25
1915.*	Spud, Dix's, for removing foreign bodies	.....	1 10
1916.*	" Schell's " " "	.....	1 25
1917.*	Hook, Knapp's, " " "	.....	1 35
1918.*	Gouge, small, " " "	.....	1 25
1921.*	Tattooing Ncedle, Baader's	.....	1 50
1922.*	" " with silver spatula	.....	2 50
1923.*	Cautery Probc, of platinum, Gruening's, for corneal ulcers	.....	2 50

All our eye instruments are furnished with aluminum handles, unless otherwise specified.

Eye Instruments.

STRABISMUS HOOKS, SCOOPS, ETC.

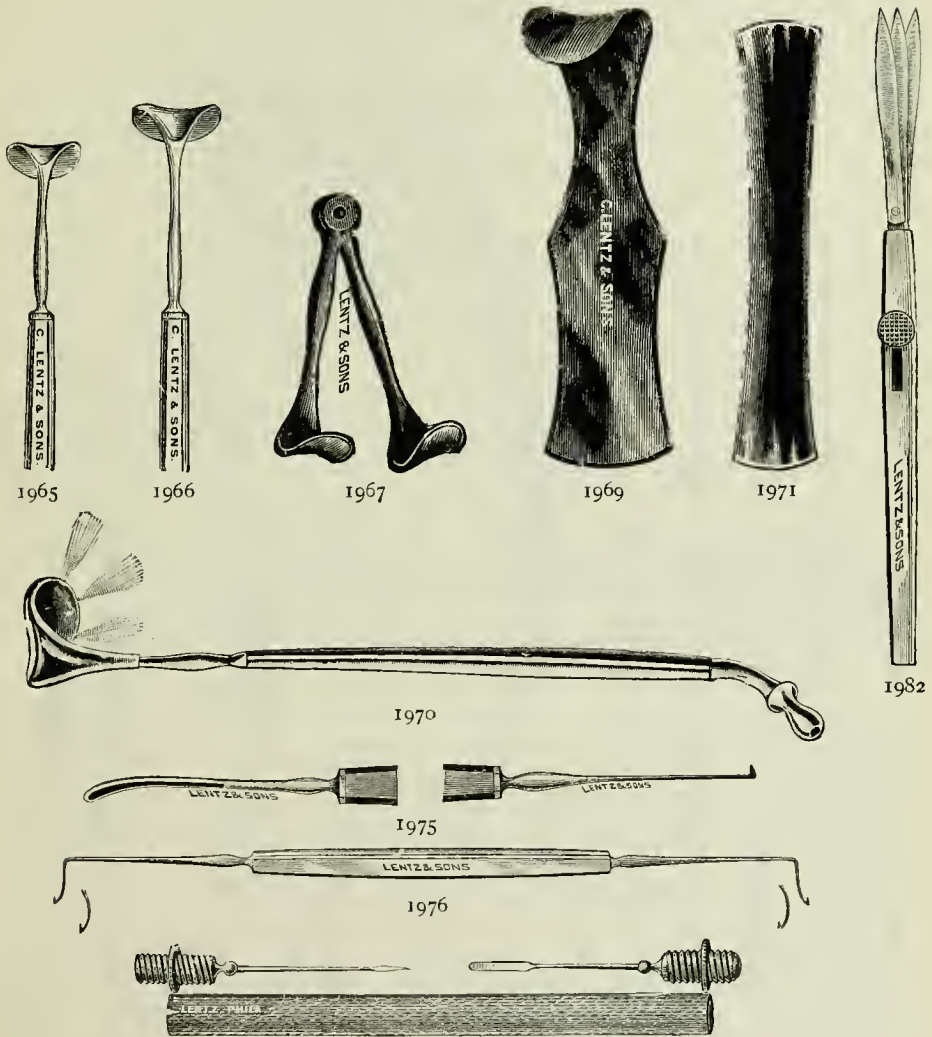


1931.*	Strabismus Hook, small	. . . . .	. . . . .	\$1 00
1932.*	" " large	. . . . .	. . . . .	1 00
1933.*	" " Bistoury	. . . . .	. . . . .	2 00
1934.	" " Wecker's, double, for advancing the muscle	. . . . .	. . . . .	4 50
1935.	Tenotomy " Stevens'	. . . . .	. . . . .	1 00
1936.	Traction " "	. . . . .	. . . . .	1 25
1939.*	Lens Scoop, Daviel's, German silver	. . . . .	. . . . .	1 25
1940.*	" " Critchet's, " " serrated	. . . . .	. . . . .	1 25
1941.*	" " " " " concave	. . . . .	. . . . .	1 25
1942.	" " Noyes', " "	. . . . .	. . . . .	1 25
1943.	" " " toothed, steel	. . . . .	. . . . .	1 75
1944.*	" " Levis', pliable, steel loop	. . . . .	. . . . .	1 50
1946.*	" " Graefe's, fenestrated	. . . . .	. . . . .	1 25
1947.*	" " " hard rubber, \$1 00; tortoise shell	. . . . .	. . . . .	1 25
1950.	Chalazion Scoop, Schell's	. . . . .	. . . . .	1 25
1951.*	" " Skeel's, with serrated edge	. . . . .	. . . . .	1 75
1952.	Scoop, Wecker's, with sharp edge	. . . . .	. . . . .	1 25
1953.*	" Meyhocfer's round, with sharp edge, 4 sizes	. . . . .	. . . . . each	1 25
1954.*	Spatula, tortoise shell, for repressing the iris	. . . . .	. . . . .	1 25
1955.	" German silver	. . . . .	. . . . .	1 00
1956.*	Lid Scarifying Knife	. . . . .	. . . . .	1 25

All our eye instruments are furnished with aluminum handles, unless otherwise specified.

Eye Instruments.

LID RETRACTORS, DOUBLE INSTRUMENTS, ETC.



1965.*	Lid Retractor, Desmarre's, small, aluminum	\$1 15
1966.*	“ “ “ medium and large, aluminum each	1 25
1967.*	“ “ “ two sizes, jointed	1 10
1968.	“ “ Stevens', aluminum	1 10
1969.*	“ “ Fox's, “ two sizes each	60
1970.*	“ “ Lagrange's irrigating	3 00
1971.*	“ Holder, Jaeger's hard rubber, 40c.; aluminum	60
1972.	“ Irrigator, Callan's, with bulb	2 50

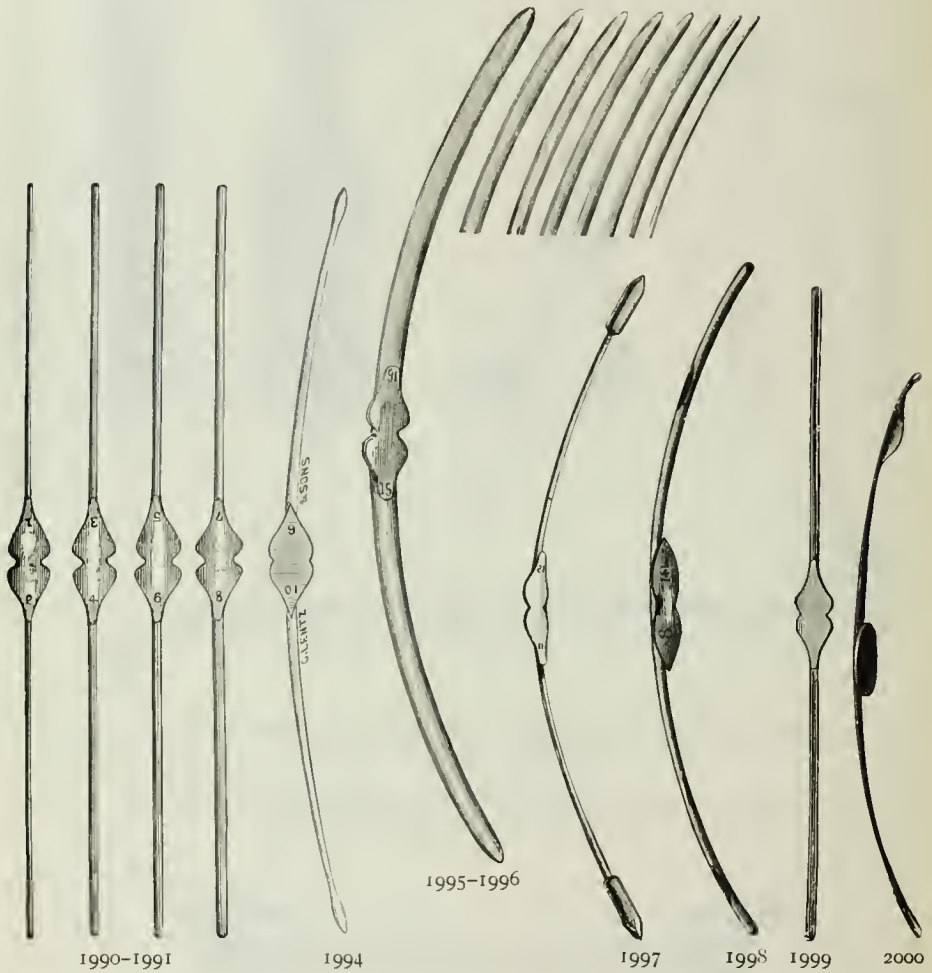
Double Instruments.

1975.*	Cystotome and Daviel's Scoop	2 00
1976.*	“ Jaeger's angular, curved to right and left	2 50
1977.	Hooks, sharp and blunt, Tyrell's	1 75
1978.	Scoops, serrated and concaved, Critchet's	1 75
1979.*	Spud, Dix's, and Needle, in metal case, fine	1 50
1980.	Gouge and Curved Needle, ivory or metal ease, fine	2 00
1982.*	Grattage Scarificator, Darier's	4 50
1983.	“ “ Week's	5 00

All our eye iustruments are furnished with aluminium handles, unless otherwise specified.

Eye Instruments.

LACHRYMAL PROBES.



1990.*	Lachrymal Probes, Bowman's, silver	each, \$0 60; set of 8 sizes \$2 00
1991.*	" " " " plated	" 45; " 8 " 1 60
1992.	" " Williams', "	" 75; " 8 " 2 75
1993.	" " " " plated	" 50; " 8 " 1 75
1994.*	" " Fox's, "	" 1 00; " 6 " 3 00
1995.*	" " Theobald's, " plated	" 40; " 16 " 2 85
1996.*	" " " "	" 90; " 16 " 7 00
1997.*	" " Caldwell's, "	" 1 10; " 16 " 8 50
1998.*	" " Brewster's, cupped, silver	each 1 25
1999.*	" " grooved, Spier's, silver	" 75
2000.*	" " and Fistula Knife, Liebreich's	" 1 50

All instruments illustrated are designated by a *.

Eye Instruments.

LACHRYMAL DILATORS, CANULAE AND STYLES.



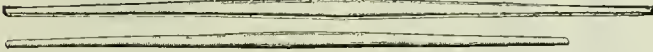
2008



2009



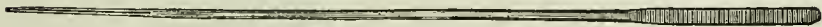
2010



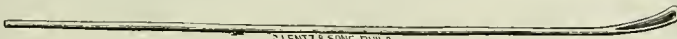
2011



2012



2019



2021

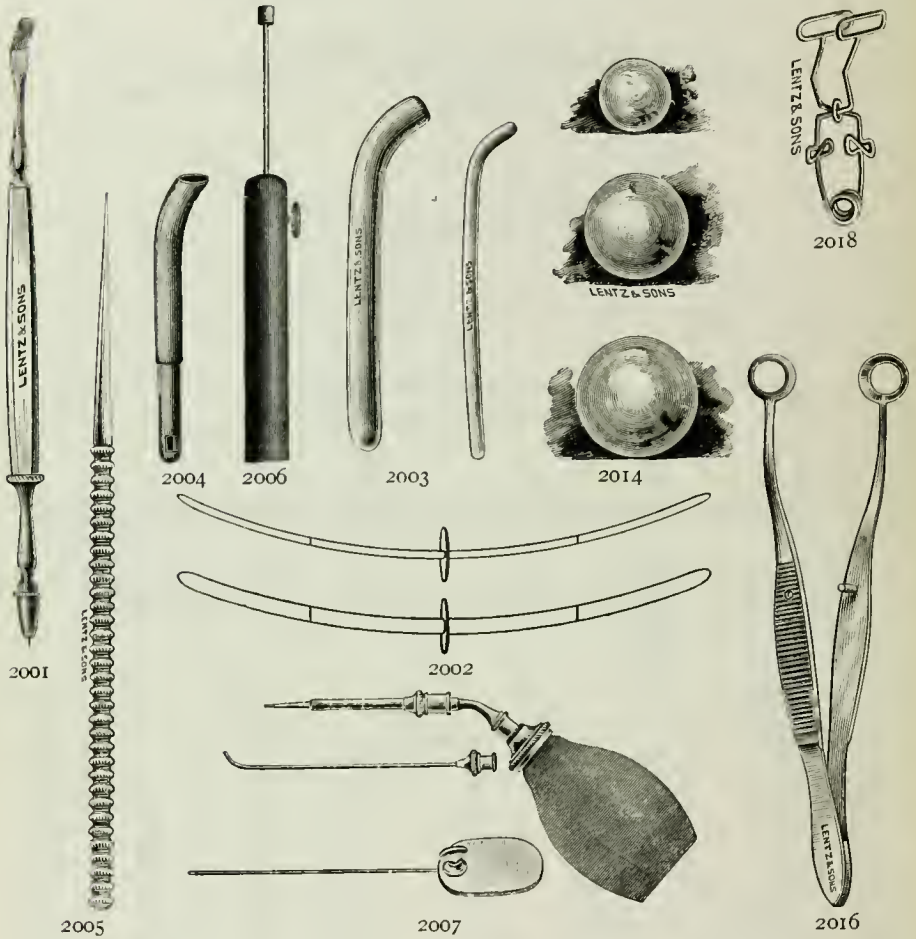


Fig. No.	Description	Material	Price
2008.*	Lachrymal Probe, Anel's	silver	\$0 25
2004.*	" Dilator, Weber's, plain	plated	60c.; " 1 10
2010.*	" " graduated	"	70c.; " 1 35
2011.*	" " Peek's, conical, two sizes	silver, each	50
2012.*	" " Levis',	aluminum, \$1 25; silver	1 75
2013.*	" " Williams', olive pointed	silver	1 00
2015.*	" " Galczowsky's		2 00
2017.*	" " Blitz's, ring handle		2 75
2019.*	" Director, Bowman's	silver	55
2021.*	" Meibomian Scoop, Fox's		50
2022.*	" Lachrymal Style, Bowman's		25
2023.*	" " " "		25
2024.*	" " " with disc		35
2025.*	" " Canula, " "		40
2027.*	" " " "		40
2028.*	" " Fox's, plain, 1 inch and 1 3/8 inch	silver, each	50
2030.*	" " " bulbous	" "	60
2032.	Lead Wire for Styles	per foot,	15c. and 20

When ordering Lachrymal Styles and Canulae, state sizes desired corresponding with Lachrymal Probes figs. 1990-1991.

Eye Instruments.

LACHRYMAL DILATORS, CANULAE, ETC.



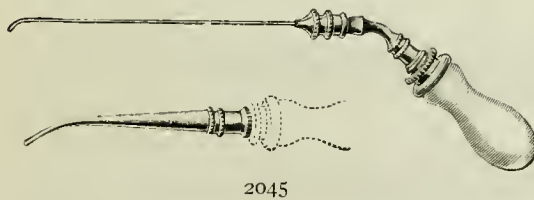
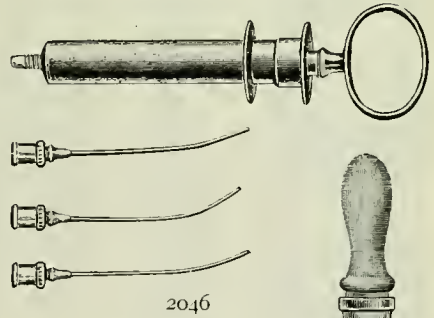
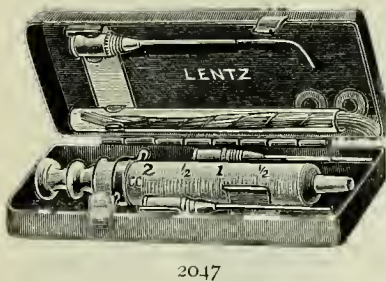
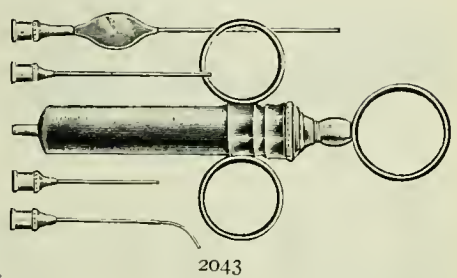
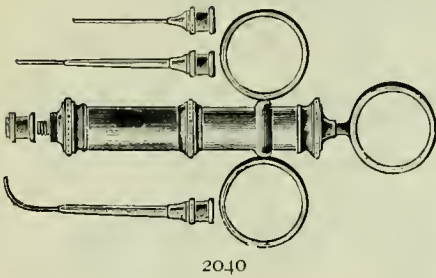
2001.*	Tattooing Needle and Spatula, Wamsley's	\$2 75
2002.*	Lachrymal Dilators, Wamsley's, for forcible dilatation each	90
	set of six sizes	2 25
2003.*	" Styles, Wamsley's, aluminum, ten sizes, from No. 4 to No. 15 French scale each, 25c.; per doz.	2 25
2004.*	" Canulae, Wamsley's, telescopic, silver, medium and large each	1 80
2005.*	" Dilator, Wilder's, long taper	50
2006.*	" Introducer, Wamsley's	1 00
2007.*	" Syringe, Wamsley's, combining a middle-ear canula and a silver probe	3 50
2014.*	Glass Spheres, for dilatation, for saliculus, seven sizes, from 13 mm. to 25 mm. per set	1 75
2016.*	Forceps, Fox's, for introducing glass spheres	2 75
2018.*	Puncta Clamp, Fox's modified Liebreich's	50

*All instruments illustrated are designated by a **

Eye Instruments.

LACHRYMAL SYRINGES.

DROPPERS.

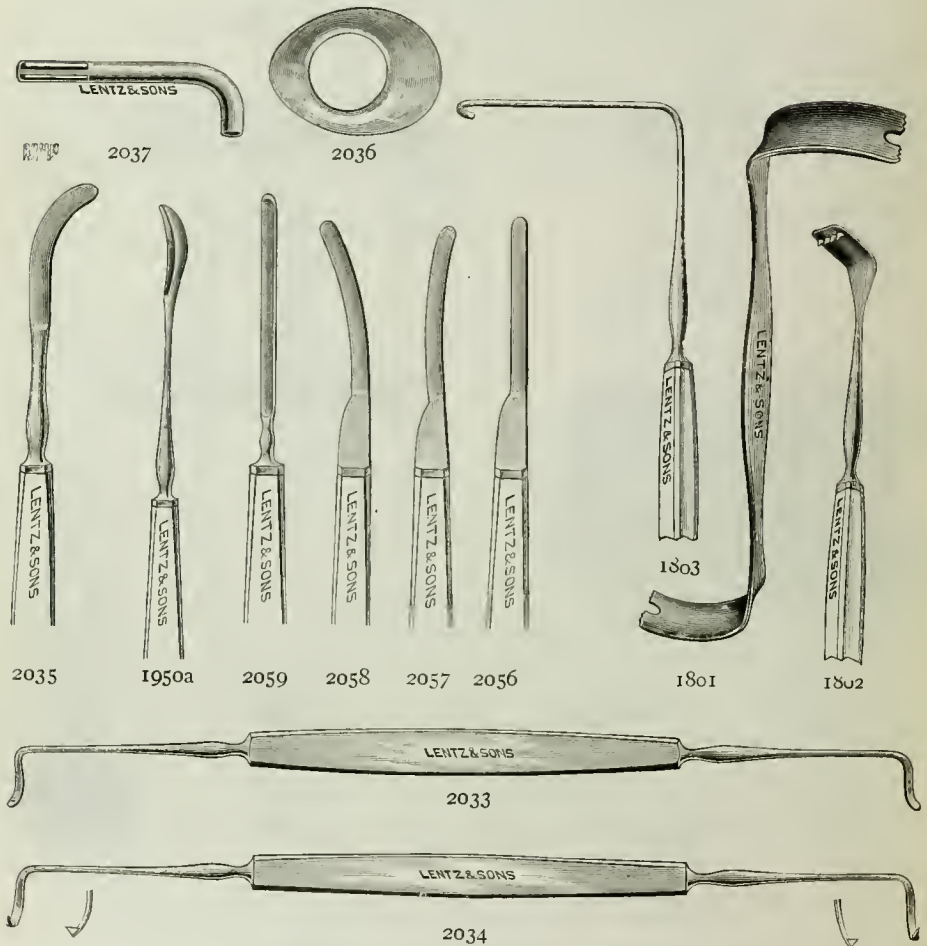


2039.	Lachrymal Syringe, Anel's, metal, leather packed, three points, in case.	\$3 50
2040.*	“ “ Anel's, all metal, aseptic “ “ “ “	3 75
2041.	“ “ de Schweinitz's, with Wecker's canula “ “	4 50
2043.*	“ “ Wills' Hospital, aseptic, four points	4 00
2046.*	“ “ Risley's, “ three “	4 00
2045.*	“ “ Colburn's, with lachrymal and middle ear tips. . .	1 75
2047.*	“ “ Luer's, all glass, three points, in metal case . . .	4 00
2050.*	Eye Bath, glass, flint or blue	10
2051.	“ Dropper, Galezowsky's	75
2052.	“ “ “Undine”	50
2053.*	“ “ Bottle, for cocaine, atropine, etc., with wood base, 1/4 oz., 35c.; 1/2 oz.	50
2054.	“ “ “ “ “ “ “ with glass base. 1/2 oz.	85
2055.	“ Dropping Bottle, Stroschein's, colored	60

All articles illustrated are designated by a *.

Eye Instruments,

CATARACT KNIVES, RESECTION INSTRUMENTS, ETC.



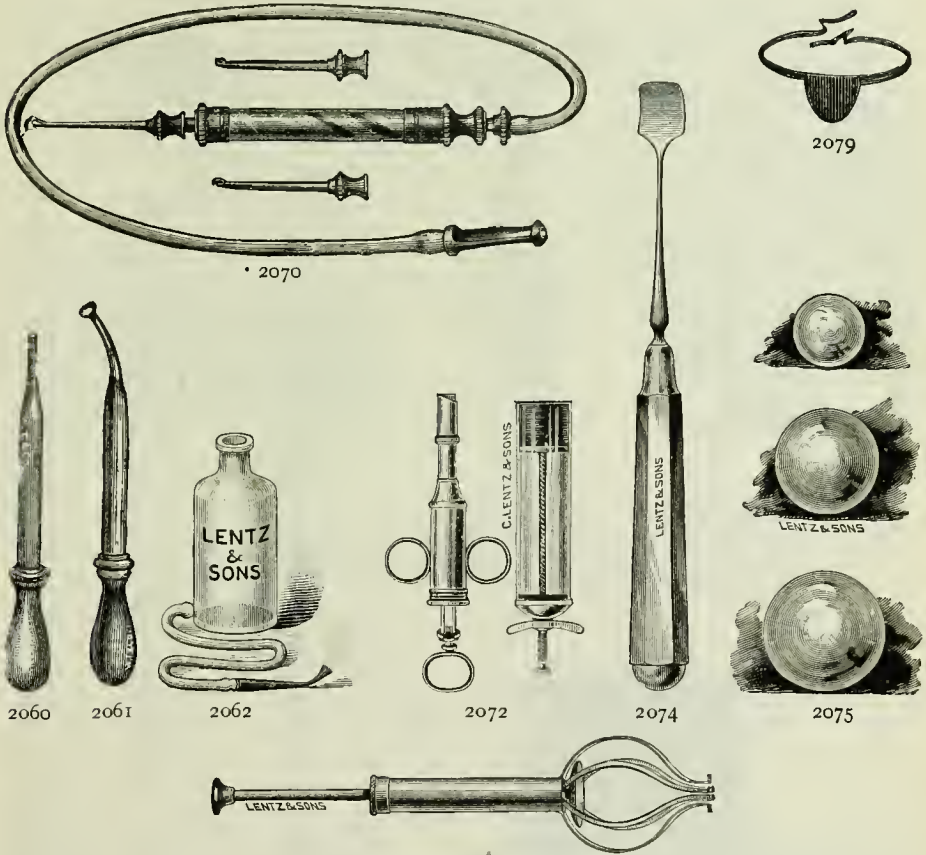
- 2033.* Corelysis Hook, double, Fox's, shanks and ends gold plated \$2 00
- 2034.* Cystotome, double, Fox's, " " " " " " " " 2 50
- 2035.* Peritomy Knife, Fox's 1 50
- 2036.* Eye Conformer, Fox's glass, \$1 00; silver, gold plated 1 75
- 1950a.* Chalazion Scoop, Wills' Hospital model 1 75
- 2037.* Lachrymal Canula, Fox's, 14 karat gold, length, 35 m.m.;
medium size, \$3 00; large size 3 50
- 2056.* Cataract Knife, secondary, Walton's, straight, blunt point 1 25
- 2057.* " " " " convex edge, blunt point 1 45
- 2058.* " " " " concave " " " " 1 45
- 2059.* " " " Black's, probe point 1 50
- 1801.* Retractor, Fox's, for resection of the optic nerve 1 75
- 1802.* " Carter's " " " " 1 75
- 1803.* Right Angle Hook, Carter's, for resection of the optic nerve 1 50
- 1804.* Scissors, with hemostatic clamp, Wecker's, for resection of the
optic nerve 5 50

All our eye instruments are furnished with aluminum handles, unless otherwise specified.

All instruments illustrated are designated by a *.

Eye Instruments.

DOUCHES, ARTIFICIAL LEECHES, VITREOUS SPHERES, ETC.



- 2060.* Eye Dropper, plain, straight or curved each, 5c.; per dozen \$0 40
- 2061.* " " bulb point, straight or curved, in box, " 10c.; " 1 00
- 2062.* " Douche, Fox's, with hard rubber point 1 25
- 2063. " " with off-flow tube glass, 75c.; hard rubber 1 25
- 2064. " " with large rubber bulb and bottle, for flushing 35
- 2065. " Atomizer, to use with one hand " 25
- 2066. Syringe for Anterior Chamber, Andrew's, glass 1 00
- 2067. " " " Lippincott's, with gold point 7 00
- 2070.* Instrument for Exhausting Soft Cataract, Teale's, in case 4 50
- 2071. " " " Bowman's 1 50
- 2072.* Artificial Leech, Luer's, with pump, in case 8 00
- 2073. " " " pump only 2 50
- 2074.* Spatula, curved, for scraping out the Scleral Cavity, Fox's 1 25
- 2075.* Vitreous Spheres, Mules', three sizes, glass each, 10c.; per dozen 1 00
- 2076. " " " gold, 13, 14 and 15 m. m. diam. 3 50
- 2078.* Introducer for Mules' Spheres, Carter's 2 50

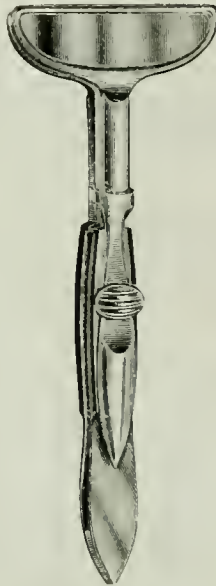
The Mules' operation for placing vitreous spheres for the support of artificial eyes has been greatly popularized by Dr. L. Webster Fox, of Philadelphia, and the introduction of these spheres has been greatly facilitated by the introducer above illustrated.

- 2079.* Eye Shades, silk, for one eye, three sizes each \$0 15
- 2080. " " " both eyes, " " " " " " " 25
- 2083. Electro Magnet, Gruening's, for removing steel from the vitreous chamber
- 2084. " " Hirschberg's " " " " " " "
- 2085. " " McIntosh's " " " " " " "

See Electrical Apparatus.

All instruments illustrated are designated by a.*

Eye Instruments.

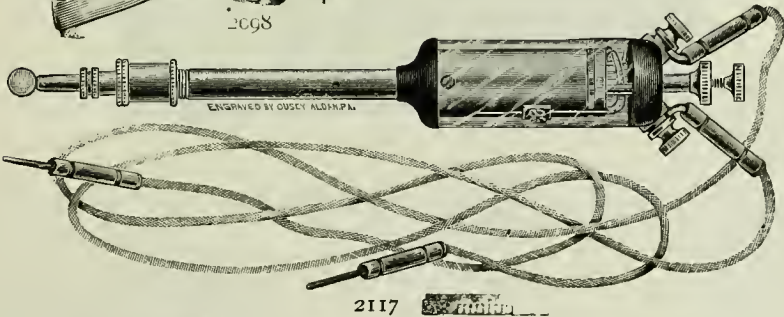
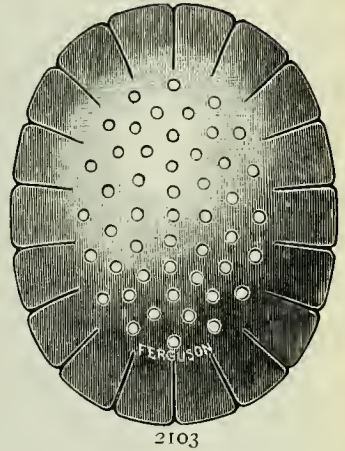
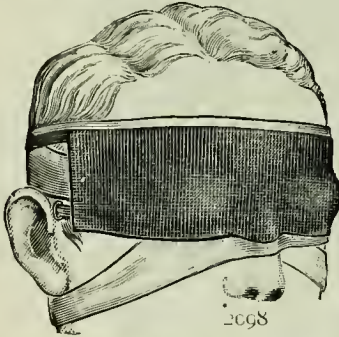
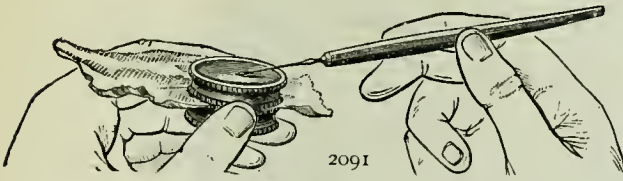


		2088*		2108a	2100	2107	2104
2081.*	Eye Speculum, Ziegler's						
2082.	"	Shoemaker's, with parallel blades, open or closed					
2086.	Chalazion Clamp, Ziegler's						
2087.*	Cautery		used in galvano-caustic puncture of the eyelids for ectropium and entropium				
2088.*	"	Knives, "	for ectropium and entropium; complete set of knives and handle in case				
2096.	"	"	only				
2097.	"	Handle, "					
2100.*	Knife Needle, "		made in three lengths, 5, 6, and 7 mm. each				
2104.*	Lens Loop, "		with very fine teeth				
2107.*	Lid Elevator, "						
2108.	Punctum Dilator, "		double ended, similar to No. 2012, page 165				
2108a.*	"	Risley's, gold tip					
2109.	Eye Douche, Fox's improved						
2110.	Retractor, Müller's, for extirpation of the lachrymal sac						
2110a.	Chisel, Fox's, for extirpation of the lachrymal sac						
2111.	Photophor Electric Lamp, Ziegler's, for operative work						
2112.	Cilia Forceps, Ziegler's						
2113.	Forceps for introducing lead styles, Ziegler's						

All our eye instruments are furnished with aluminum handles, unless otherwise specified.

All instruments illustrated are designated by a *

Eye Instruments.



2091.*	Test Drum, hard rubber, with a piece of fine kid skin	\$0 75
2092.	Kid Skin, for testing points of instruments	piece, 25c. to 50
2093.	Pencil, with Alum Cone in wooden handle with cap	25
2094.	“ “ Sulphate of Copper Cone in wooden handle with cap . .	25
2098.*	Ocular Mask, Ring's	per dozen, \$3 50; each 35
2101.	Eye Shield, Andrews', aluminum	65
2103.*	“ “ Fox's, aluminum	75
2105.	“ Pads, “ absorbent, single	per doz. 20
2106.	“ “ “ “ double	“ 30
2117.*	Eye Massage Vibrator, Piesbergen's, for massaging the eye ball, as used by Prof. L. Webster Fox and Dr. A. E. Prince; without battery	16 00
2118.	Battery for operating Fig. 2117 Eye Masseur; has 4 standard type dry cells and rheostat	5 00
2119.*	Eye Spud Holder, with electric light attached; including two eye spuds	5 00

All instruments illustrated are designated by a *.

Eye Instruments in Cases.



2117

2112. Eye Case, No. 1.

Contains one pair Strabismus Scissors; one Strabismus Hook; one pair Fixation Forceps; one Cataract Knife; one Wire Speculum, plain.
 In leather covered case \$6 50

2113. Eye Case, No. 2. Veasey's Cataract Set.

Contains one Snowden's Speculum; one Graefe's Knife; one Fixation Forceps; one Iris Forceps; one Iris Scissors; one Cystotome and Scoop combined; one Spatula.
 In leather covered case \$11 00

2114. Eye Case, No. 3. L. Webster Fox's.

Contains one Graefe's Cataract Knife; one Beer's Cataract Knife; one Weber's Canaliculus Knife; one Angular Keratome; one Bowman's Straight Stop-Needle; one Broad Needle; one Strabismus Hook; one Tyrell's Sharp Hook; one Critchet's Serrated and Concaved Scoop; one Daviel's Scoop and Cystotome; two Lid Retractors; one Jaeger's Lid Spatula; one pair Iridectomy Forceps, curved; one pair Fixation Forceps; one pair Ligature Forceps; one Conical Lachrymal Dilator, silver; two Lachrymal Probes, silver, four sizes; one Iridectomy Scissors, angular; one Strabismus Scissors, straight; one Enucleation Scissors, curved on flat; one Fox's Set Screw Speculum; Needles and Silk.
 In leather covered case \$30 00

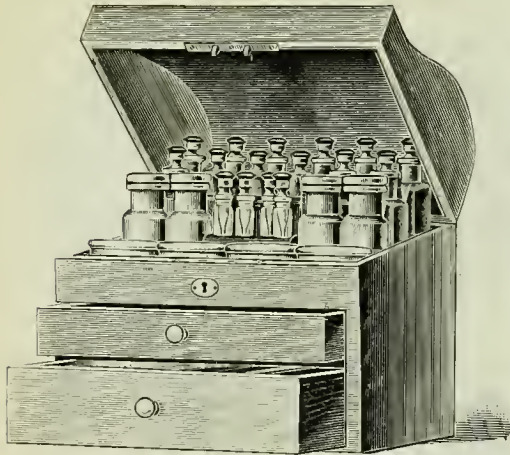
2117.* Eye Case, No. 5. Lentz's.

Contains one Beer's Cataract Knife; two Graefe's Cataract Knives; one Canaliculus Knife; one Scarificator; one Knife-Needle; one Bowman's Stop-Needle, curved; one Corneal Spud; one Strabismus Hook; one Tortoise Shell Lens Scoop; one Levis' Wire Scoop; one Desmarre's Lid Retractor; one Scalpel; one Iris Knife, single edge; one Beer's Cataract Needle, straight; one Angular Keratome; one Graefe's Cystotome; one Daviel's Scoop; four Bowman's Double Probes; one Enucleation Scissors; one Iris Scissors, curved; one Fixation Forceps; one Strabismus Forceps, straight; one Cilia Forceps; one Iris Forceps, curved; one Desmarre's Entropium Forceps; one Snowden's Stop Speculum; one Steven's Needle Holder; one Luer's Modified Knapp's Trachoma Forceps; one Jaeger's Lid Holder; one Test Drum with fine kid skin; Lead Wire for Styles; Needles and Silk.

In wood case lined with leather and the outside is substantially covered with morocco leather \$45 00
 Cases for Eye Instruments, various sizes \$3 00 to \$10 00

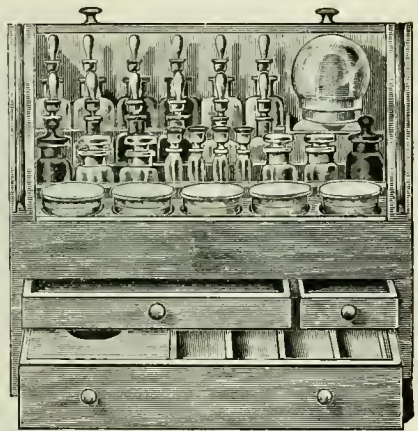
Eye Instruments.

TREATMENT CASES.

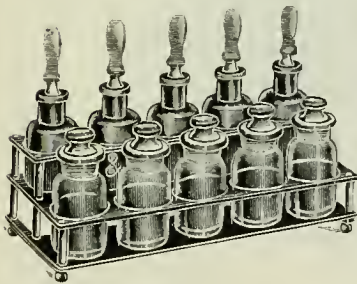


2152

BOTTLES.



2153



2154



2157



2158-2159

- 2152.* Oculist's Treatment Case; quartered oak or mahogany \$16 00
 Contains six 2 oz. Tincture Bottles, six 1 oz. Tincture Bottles, four $\frac{1}{4}$ oz. Tincture Bottles, four 1 oz. Salts, four 2 oz. Ointment Jars, three Gold Plated Applicators, set of Labels. The bottles have absolutely air-tight ground glass stoppers and droppers. The outfit is quite compact and very neat. Compartments are provided for applicators, cotton, etc., also a drawer for various instruments.
- 2153.* Oculist's Roll Top Treatment Case; quartered oak, hand polished 18 00
 Contains six 2 oz Dropper Bottles, six 1 oz. Dropper Bottles, four $\frac{1}{4}$ oz. Dropper Bottles, two 2 oz. Tincture Bottles, one Ziegler's Bottle, five 1 oz. Salts, five 2 oz. Ointment Jars, bottle of Labels.
- 2154.* Oculist's Aseptible Treatment Stand, complete with bottles 3 50
 2155. " " " " without bottles 1 75
 2156. " " " " with three rows of 5 each salt mouth bottles and 4 empty spaces to hold atomizers 5 00
- 2157.* Eye Dropper Bottle, round form, 1 oz.; amber, blue or crystal each 25
 2158.* Eye Wash Bottle, Ziegler's, with ground lid, plain 1 25
 2159.* " " " " " boric acid label 1 50

Eye Instruments.

OCULISTS' BAGS.



2163



2164

2163.* Oculist's Bag, extra wide, will accommodate an eye instrument case and leaving sufficient space for dressings, etc. The bag measures 12 in. long, 7 in. wide, 6 in. high; is made of best quality heavy black grain leather, leather lined and hand stitched to a light weight English steel frame, with nickel-plated lock and end catches \$8 35

For other styles of small bags, see "Obstetrical Section."

2164.* Oculist's Bag, arranged to carry a complete equipment. It is partitioned off and includes an empty Ziegler's eye instrument case with metal racks, a Ziegler's 8 oz. boric acid bottle, a treatment case, and six 1½ oz. metal capped glass stoppered bottles. The bag is 16 in. long, 9 in. high, 7 in. wide, made of heavy black grain leather of best quality, leather lined, and hand stitched to an English steel frame, with nickel-plated lock and end catches 30 00

2165. Oculist's Bag, same as No. 2164, but without its contents 10 00

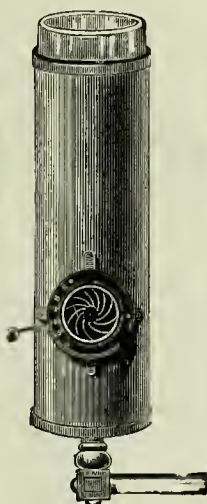
*All articles illustrated are designated by a *.*

Eye Instruments.

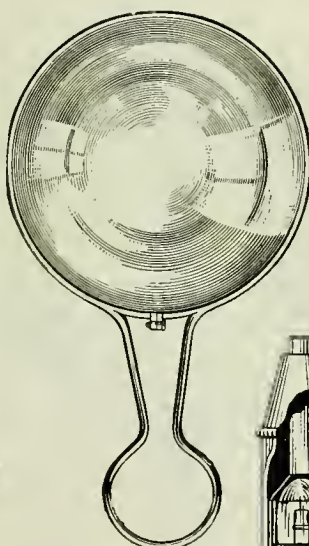
RETINOSCOPES, ETC.



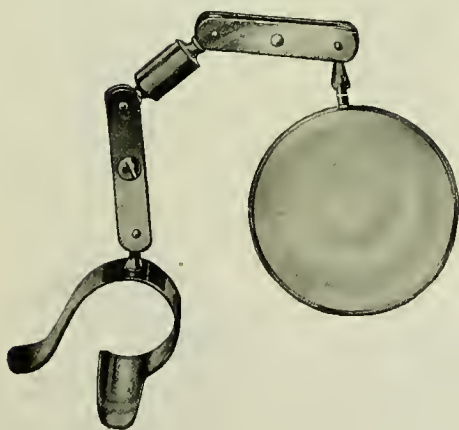
2168



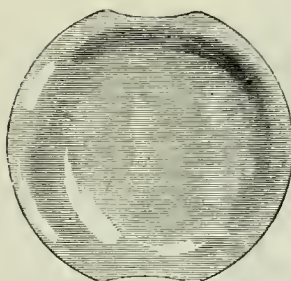
2171



2175



2176



2174



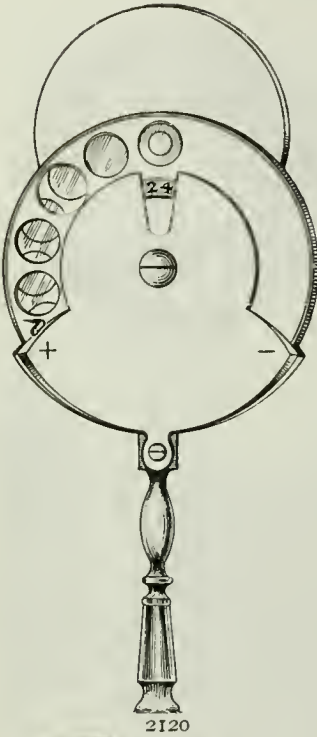
2177

2168.*	Retinoscope. Thorington's	\$1 00
2169.	“ plain, with fixed handle	1 00
2170.	“ with folding handle	75
2171.*	Asbestos Chimney, Thorington's, with iris diaphragm	2 50
2172.	“ “ with opening of 10, 20 or 30 mm. each	1 00
2173.	“ “ with condensing lens	1 75
2174.*	Condensing Lens, bi-convex	1 00
2175.*	“ “ with metal frame and handle	1 25
2176.*	“ “ Powell's, with band to fit over third finger, double jointed arm	2 50
2177.*	Ocular Transilluminator, Würdemann's	10 00
	Useful in the diagnosis of intraocular tumor, detached retina, and in locating foreign bodies in the anterior chamber.	
2178.	Pocket Battery of 6 dry cells, in leather case, for operating same	5 00

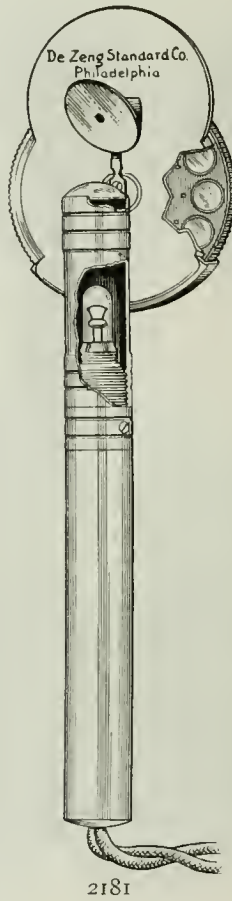
All instruments illustrated are designated by a *.

Eye Instruments.

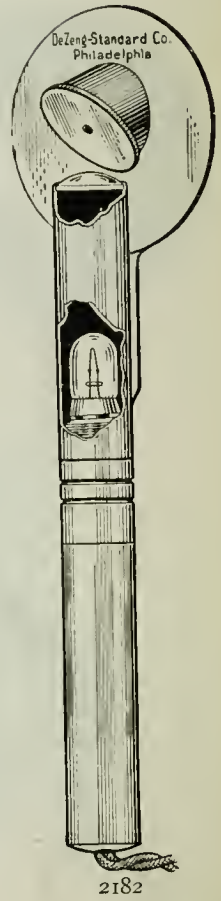
OPHTHALMOSCOPES.



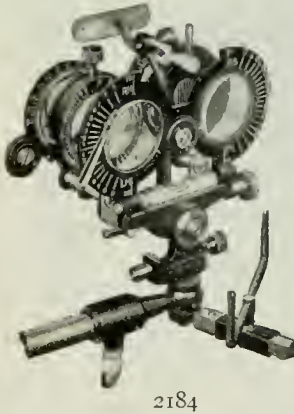
2120



2181



2182



2184

2120.* Ophthalmoscope, Loring's latest improved, tilting mirror, complete with condensing lens, in case \$5 00

This new model of the Loring differs from the old style instrument in that only those numbers representing the sum total of the lens power obtained at the sight opening can appear in any position of the discs. This improvement is obtained in the novel construction of the upper disc containing the auxiliary lenses (+ and — .50 and + and — 16. D.), and also in the outer covering or shield having the U-shaped opening.

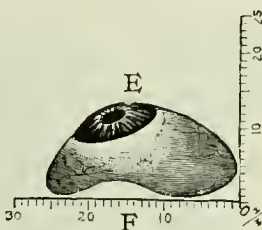
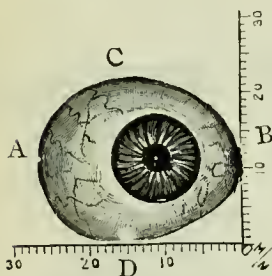
- 2129. Ophthalmoscope, Morton's improved, with color test in end of handle, complete \$22 50
- 2130. " " " without color test 21 00
- 2181.* " De Zeng's luminous, latest Loring model, in case . 15 00
- 2182.* Retinoscope, De Zeng's luminous, complete, in case 12 50
- 2183. Pocket Battery of 6 dry cells, with quill rheostat, in leather case . . 5 00
- 2184.* Phoro-Optometer, improved, with either wall bracket or floor stand . 50 00

Very compact, accurate and light. Regularly made for the reception of 1½ inch trial lenses, but can be adapted to hold 1¼ inch lenses. Test cards and printed instructions accompany each instrument.

2131. Perimeter, "Standard," with 2 sliding object carriers, color discs, etc. \$18 00

*All instruments illustrated are designated by a *.*

Artificial Eyes. Anatomical Models of the Eye.



2135

2135.* Artificial Eyes, regular shell, finest quality, all sizes and colors, price to patient, \$5 00; to physician, each \$3 00

2136.* " " "Reform," closed hollow shell; particularly desirable where the socket is roomy or the stump of the muscle small, as it fills the space more prominently and thereby gives a more lifelike appearance; its well-rounded edges prevent irritation and lessen the annoyance of an excessive flow of secretion . . . price to patient, \$8 00; to physician, each 5 00

Assortments sent for selection. All transportation charges to and from Philadelphia must be paid by the purchaser.

The above scale is in millimeters and may be employed in giving measurements.

In ordering artificial eyes the following questions should be answered:

- | | |
|--|---|
| Right or left eye? | Color of iris? |
| Is eyeball shrunken or removed? | Diameter of iris? |
| Has an artificial eye been worn? | Diameter of pupil? |
| Is the sound eye prominent, very full or sunken? | Distance from inner to outer canthus, A to B? |
| Is the white of the eye clear or of dark or yellowish tinge? | Width of eye, C to D? |
| | Height of eye, E to F? |

In cases where an eye has been worn, it is desirable in ordering a new eye to send the old one, whether broken or intact, as a sample, with answers to the following questions:

- | | |
|---|---|
| Mention whether the color or diameter of the iris or pupil is correct or otherwise? | If the eye occasions uneasiness, where is the pain felt? |
| Is the eye a perfect and comfortable fit? | Can this uneasiness be compared to a pressure or to the contact of some irritating substance? |
| When the eyelids are closed, do they cover it completely? | |



2143

2139. Model of Human Eyeball, Bock-Steger's, made of plaster of paris, 5½ inches diameter. Can be taken apart, and then shows the cornea, iris, crystalline lens, vitreous humor, and the coatings, including the results of microscopic examination upon the retina \$7 00

2140. Auzoux's Dissected Model of the Eye, the most perfect and accurate ever made. The material is Papier-Maché, and the whole is accurately dissected so as to be taken apart, showing successively the sclerotic and choroid coats, and cornea, retina, iris, pupil, crystalline lens, aqueous vitreous humors, also the muscles, nerves and blood vessels lying in the orbit around the eyeball; all parts having the natural colors; with full descriptive pamphlet 30 00

2141. Same, of German manufacture 25 00

2142. Phantom Face, Waldau's, for experimental operations, for one eye 7 50

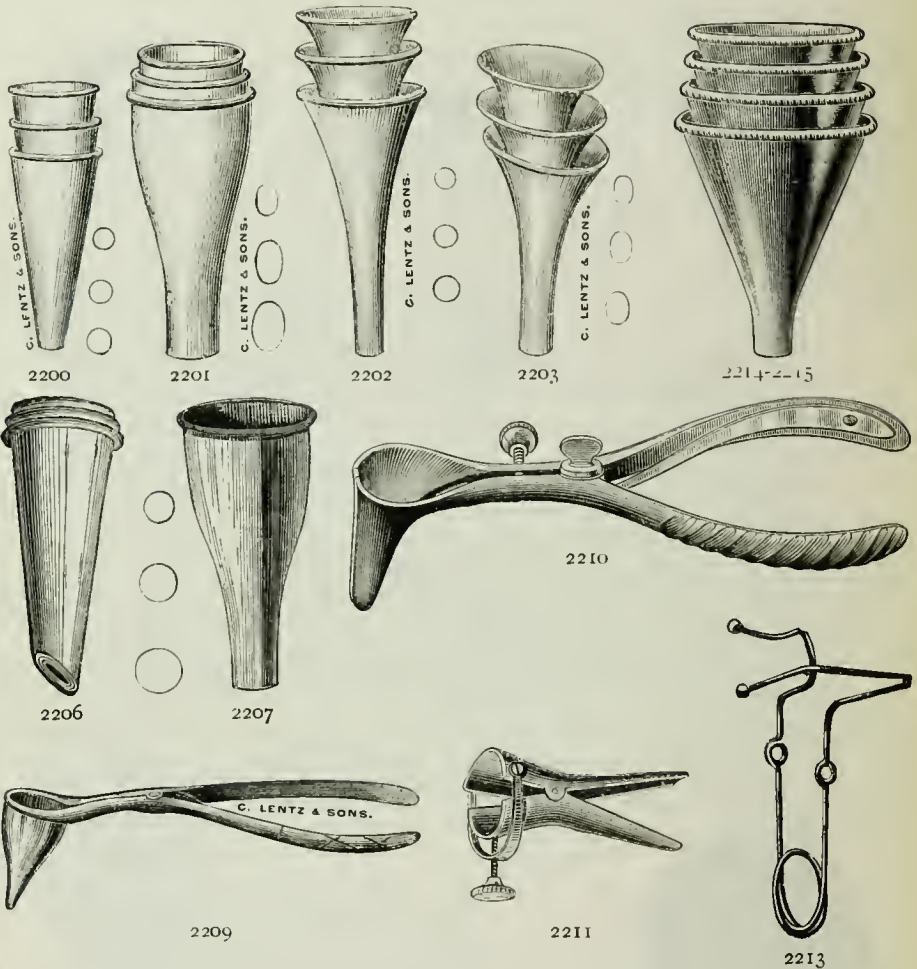
2143.* Phantom Face, Waldau's, for experimental operations, for both eyes 10 00

For other Models of the Eye, see Anatomical Models.

Section IV.

Ear Instruments.

SPECULA.



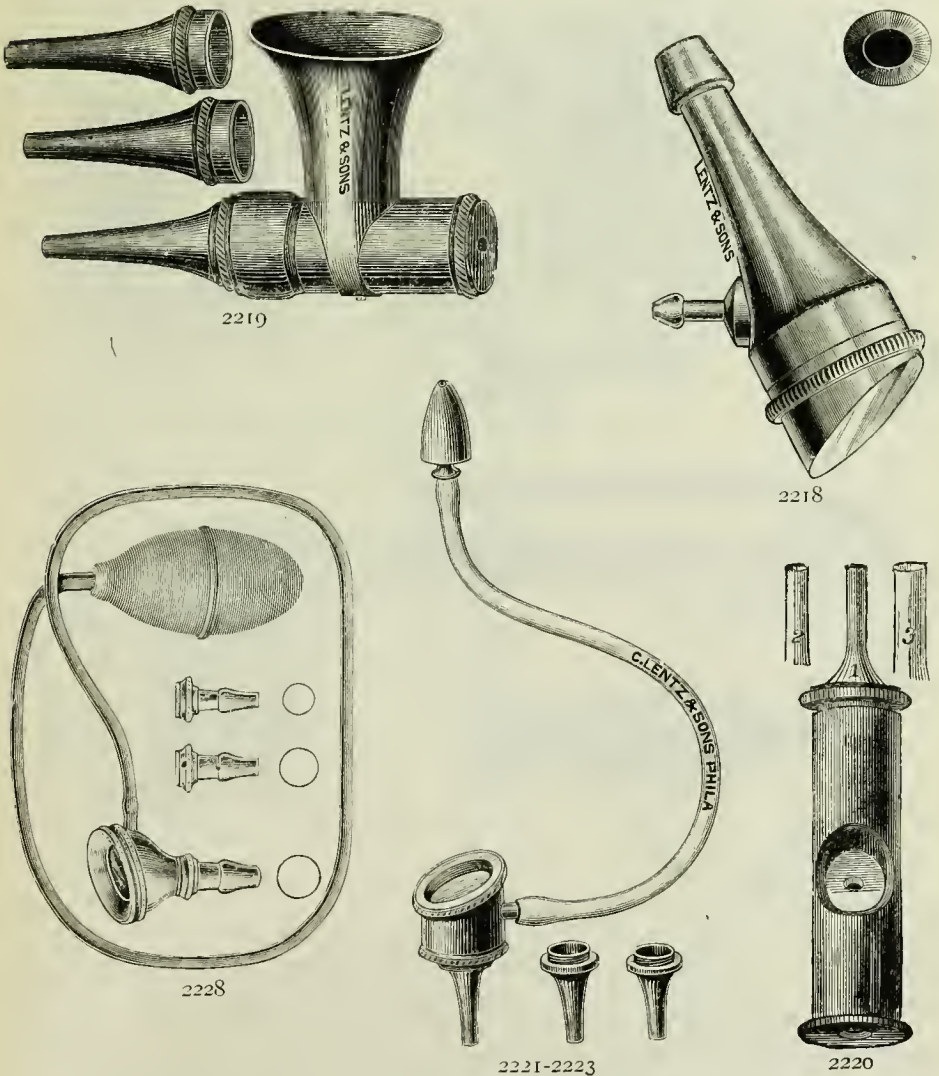
2200.*	Speculum, Wilde's,	three in set	nickel plated, 75c.; fine, silver plated \$1 00
2201.*	"	Gruber's, " " .	" " 85c.; " " " 1 10
2202.*	"	Toynbee's, " " .	" " 85c.; " " " 1 10
2203.*	"	Turner's, " " .	" " 85c.; " " " 1 10

The above sets are in neat metal cases with screw top.

2204.	"	Turnbull's, one size .	silver plated, \$0 50; silver 1 00
2205.	"	" child's size .	" " 60; " 1 00
2206.*	"	Lucae's, three in set .	" " 1 10; " 2 00
2207.*	"	Gruber's, four in set, hard rubber . .	50
2208.	"	Toynbee's, " " "	50
2209.*	"	Kramer's, bivalve	plain, 75c.; with set screw 85
2210.*	"	Kyle's, " improved	" " " 1 00
2211.*	"	Bonafont's, " self-retaining	1 35
2212.	"	Spier's, " "	1 35
2213.*	"	" wire	silver plated, 50c.; silver 1 00
2214.*	"	Boucheron's, four in set, nickel plated	1 00
2215.*	"	" " " " aluminum	1 00

Ear Instruments.

OTOSCOPES.

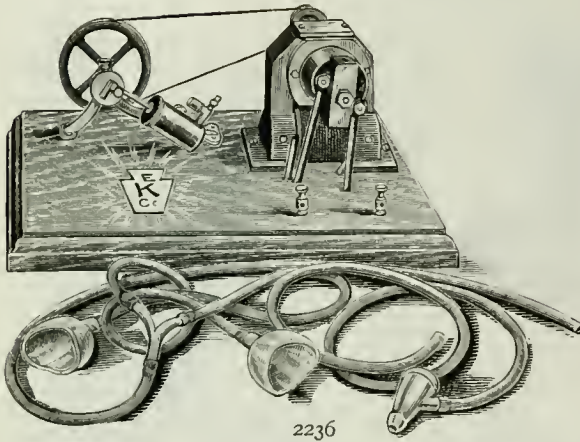


2218.*	Otoscope, Burnett's modified Siegle's, oval tip, with bulb	\$1 75
2219.*	" Brunton's, in case, hard rubber or metal	3 75
2220.*	" Hassenstein's, in case, hard rubber or metal	2 75
2221.*	" Siegle's pneumatic " " with mouthpiece	2 00
2222.*	" " " " " rubber bulb	2 50
2223.*	" " " metal, with rubber bulb	2 75
2224.	" Bishop's " " hard rubber syringe	4 50
2225.	" Simrock's, dilating, with lens	2 00
2226.	" Myles', electric illuminating	7 50
2227.	" " " and pneumatic, with three specula	6 00
2227a.	" " " and pneumatic, with two specula	8 00
2228.*	" Pynchon's, metal, with rubber bulb	2 50
2229.	Suction Apparatus, Smith's, for removing secretions from middle ear	1 25

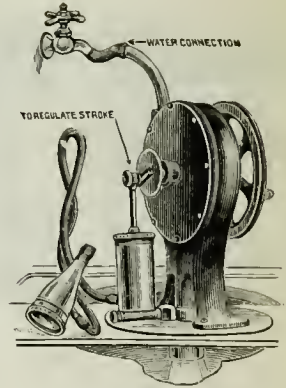
All instruments illustrated are designated by a *.

Ear Instruments.

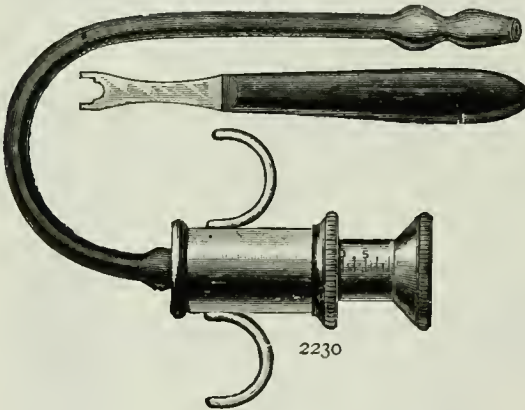
MASSEURS.



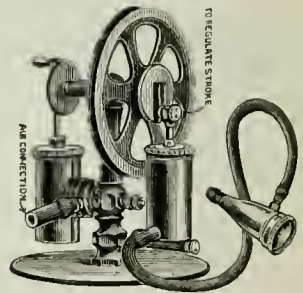
2236



2234



2230



2232

- 2230.* Masseur, Delstanche's, best, in case \$3 50
 - 2231. " " with Siegle's hard rubber otoscope 5 50
 - 2232.* " Compressed Air Engine with a plain otoscope 7 00
 - 2233. " " " " with Siegle's otoscope, with 3 specula 9 00
- Can be operated by compressed air apparatus or by electric motor.
- 2234.* Masseur, Water Motor, with a plain otoscope 8 00
 - 2235. " " " " with Siegle's otoscope, with 3 specula 10 00
- Can be connected to faucet for water pressure, or can be run by electric motor.
- 2236.* Masseur, Electric, "Keystone," similar to fig. 2232, with motor and current controller, all fitted on a polished wood base; it is operated either by four dry cells or by attachment to any electric light socket 15 00

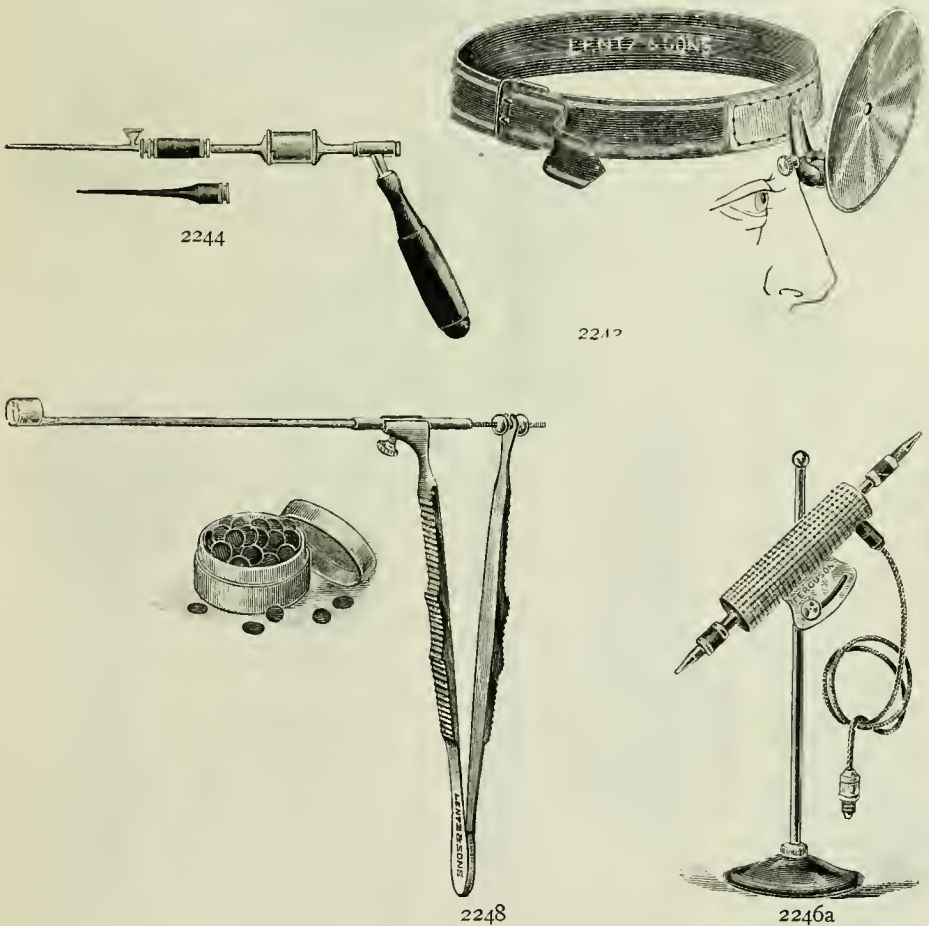
A thorough massage of the tympani can be produced with these engines; the length of the stroke is adjustable.

*All instruments illustrated are designated by a *.*

"Our factory is equipped to repair, sharpen, polish and nickel plate your instruments in the best of manner and at shortest notice. For approximate costs of repair work, see page following index."

Ear Instruments.

HOT-AIR AND OIL APPLICATORS, MIRRORS, ETC.



2240.	Rarefactor, Delstanche's, with three tips and glass tube for artificial leech, in case	\$17 50
2241.	Reflecting Mirror, Troeltsch's, with aluminum handle, 3 inch, \$1 60; 3½ inch	1 75
2242.*	Reflecting Mirror with Ivins' head band . . . 3 inch, \$2 50; 3½ inch	2 75
2244.*	Hot-Air Applicator, Vansant's, with two points; for the treatment of various forms of headache, tinnitus aurium, catarrh, etc.	4 50
2246a.*	" " Walters', for direct or alternating electric light current	12 00
2246b.	" " " for gas	10 00
2245.	Oil Blower, Kyle's, with silver Eustachian catheter and bulb	3 75
2247.	Cerebellum Hook, Bulette's, with aluminum handle	1 25
2248.*	Tympanum Disc Forceps, Wamsley's, steel, gold plated shaft, and box of plaster discs	7 50

This instrument is designed for the application of court plaster discs over perforations of the ear drum, after disease of the middle ear cavity has ceased. The object of the disc is that it act as a skin-graft, causing gradual contraction of perforations and final closure.

*All instruments illustrated are designated by a *.*

Ear Instruments.

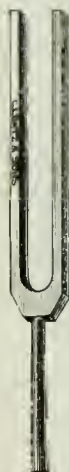
DIAGNOSTIC INSTRUMENTS.



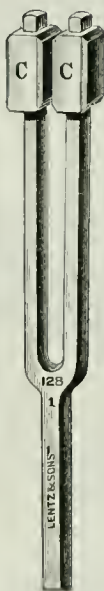
2262



2265



2257



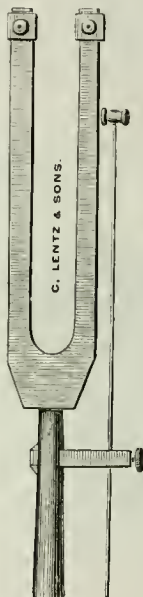
2250



2253



2254



2260



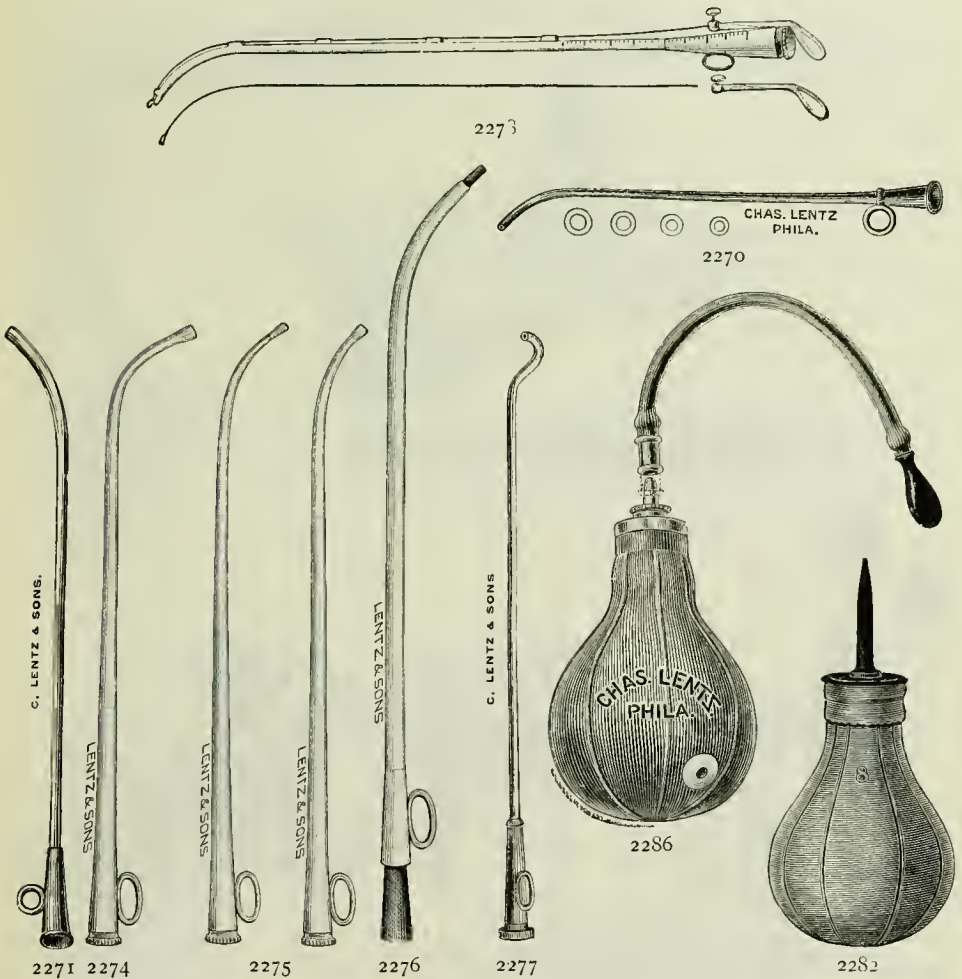
2263

2250.*	Tuning Fork, Hartmann's, C,	with clamp,	6¾ inch	\$3 00
2251.	"	"	C 1, " "	4½ " 1 75
2252.	"	"	C 2, without clamp,	6 " 1 75
2253.*	"	"	C 3, " "	5½ " 2 00
2254.*	"	"	C 4, " "	5¾ " 4 00
2255.	"	"	complete set of 5, in case	. . . . . 12 00
2256.	"	"	plain, small, 4½ inch	. . . . . 50
2257.*	"	"	Standard	6¾ inch, \$1 00; 8 inch, \$1 50; 9 inch 2 00
2258.	"	"	Blake's, 512 V. S.	. . . . . 1 85
2259.	"	"	Lucae's, with clamps, 9½ inch	. . . . . 5 50
2260.*	"	"	Politzer's, with clamps and hammer	. . . . . 6 00
2261.	"	"	Dench's, " " 14 inch, 26 to 64 V. S.	. . . . . 8 00
2262.*	Diagnostic Tube, Toynbee's	. . . . .	. . . . .	50
2263.*	Whistle, Galton's	. . . . .	. . . . .	4 00
2264.	"	Dench's, with bulb and tubing	. . . . .	4 50
2265.*	Acoumeter, Politzer's, for testing perception for bone conduction	. . . . .	. . . . .	2 50
2266.	Manometer, " . . . . .	. . . . .	. . . . .	50

*All instruments illustrated are designated by a *.*

Ear Instruments.

POLITZER AIR BAGS AND EUSTACHIAN CATHETERS.



2270.*	Eustachian Catheter, hard rubber, four sizes	each	\$0 30
2271.*	" " German silver, plated, three sizes	"	60
2272.	" " sterling " three sizes	"	1 25
2273.	" " pure " " "	"	1 40
2274.*	" " Ayres', bulbous end . . . silver plated, 75c.; silver	1 50	
2275.*	" " Hartmann's, olive pointed, pure silver	each	1 50
2276.*	" " " metal, with flexible web catheter		1 50
2277.*	" " Noyes', right or left, pure silver		1 75
2278.*	" " Dench's, pure silver, graduated, with 3 bougies		4 00
2279.	" Bougie, whalebone, five sizes	each	35

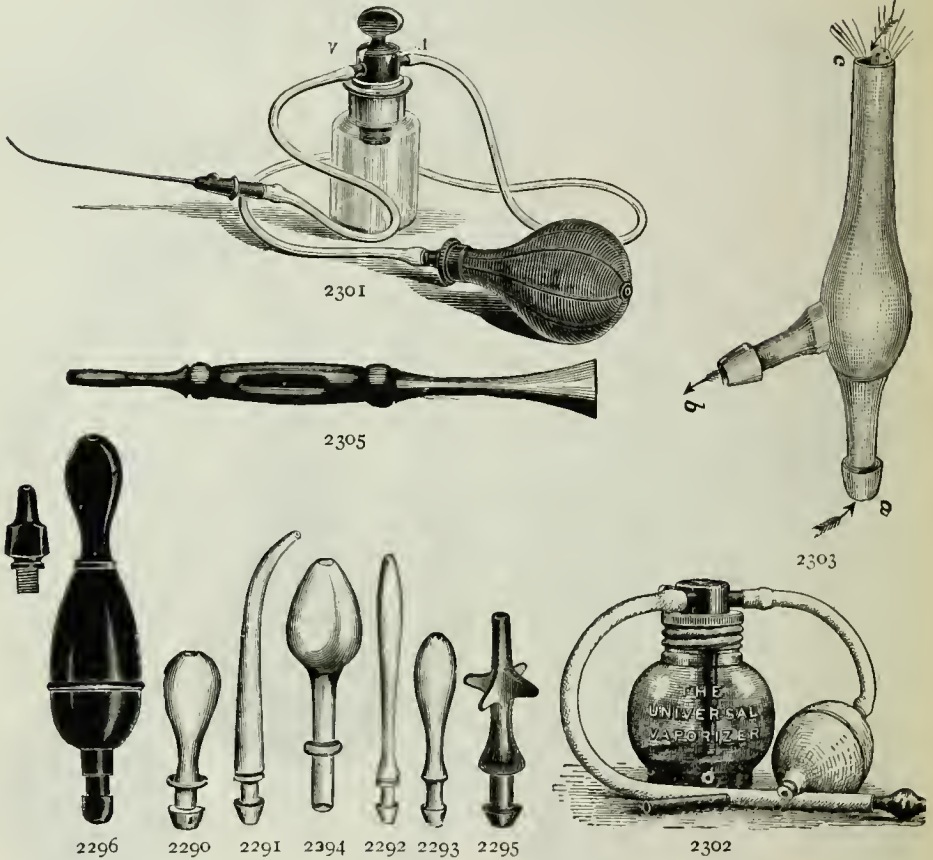
Air Bags for inflating the Eustachian Canal, all best quality black rubber with hard rubber fittings.

2282.*	Air Bag, Politzer's, no valve, with oval nozzle and tubing,	6 oz.	\$1 10
2283.	" " " " " " " " " " " "	8 "	1 25
2284.	" " " " " " " " " " " "	10 "	1 40
2286.*	" " " " " " " " " " " "	6 "	1 35
2287.*	" " " " " " " " " " " "	8 "	1 50
2288.	" " " " " " " " " " " "	10 "	1 65
2289.	" " " " " " " " " " " "	10 "	2 25

*All instruments illustrated are designated by a *.*

Ear Instruments.

INHALERS, NOZZLES, ETC.

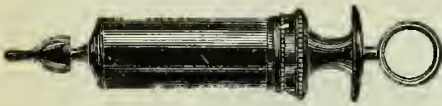


2290.*	Air Bag Nozzle, oval, hard rubber, two sizes	..	..	each \$0 15
2291.*	" " Knapp's, hard rubber	..	..	25
2292.*	" " Roosa's " "	..	..	20
2293.*	" " Round, " "	..	..	15
2294.*	" " Glass	..	..	10
2295.*	Ear Douche Nozzle, Buck's, hard rubber	..	..	60
2296.*	Inhaler, Buttlet's	..	metal, \$1 50; hard rubber	85
2297.	" Bishop's modification of Buttlet's	..	" "	1 00
2298.	" Pomeroy's, glass	..	..	40
2300.	Vaporizer, Dench's, with tubing and tips	..	..	2 50
2301.*	" " complete with catheter and air bag	..	..	4 00
2302.*	" " "The Universal" ..	..	..	2 50
2303.*	Syphon Ear Douche, Lucae's	..	glass, 35c.; hard rubber	1 00
2304.	Middle " " Hewitt's	..	..	2 00
2305.*	Powder Blower, Knapp's, hard rubber	..	. 75c.; with bulb and tubing	1 00
2306.	" " Scoop, hard rubber, with bulb	..	..	65
2307.	" " Grant's Eustachian Anto-Insufflator	..	..	35

*All instruments illustrated are designated by a *.*

Ear Instruments.

SYRINGES.



2310-2312



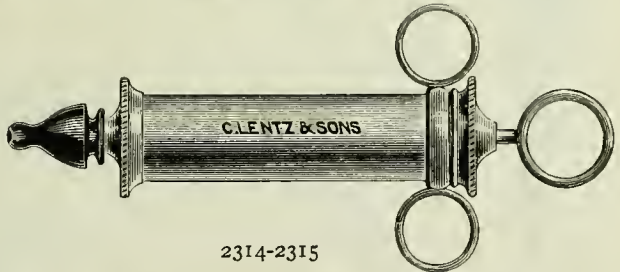
2316-2317



2309



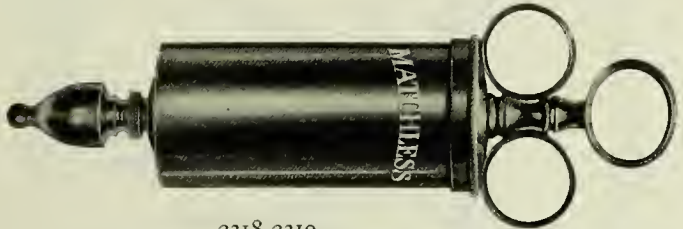
2322



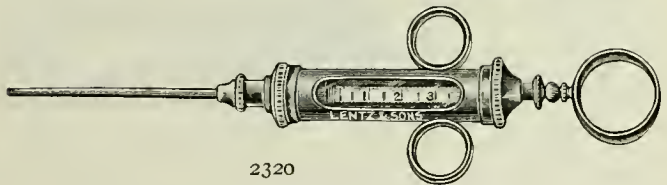
2314-2315



2321



2318-2319



2320

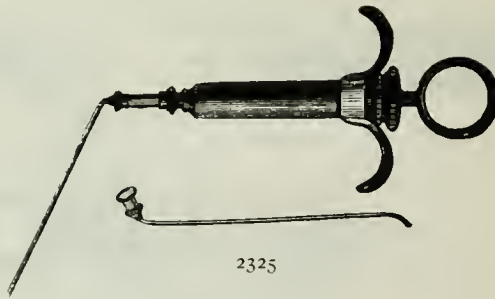
2309.*	Ear Syringe, Freeman's, including hard rubber Eustachian catheter .	\$1 50
2310.*	“ “ hard rubber, 1/2 oz.	75
2311.*	“ “ “ “ 1 oz.	90
2312.*	“ “ “ “ 2 oz.	1 25
2313.*	“ “ “Triumph,” all glass, 3 oz., with metal finger support . .	2 25
2314.*	“ “ Kramer's, metal, 1 oz.	1 50
2315.*	“ “ “ “ 2 oz.	1 75
2316.*	“ “ Pomeroy's, metal, with shield, 1 oz.	1 50
2317.*	“ “ “ “ 2 oz.	1 75
2318.*	“ “ “Matchless,” all metal, with two points. 1 oz., \$2 50; 2 oz.	3 00
2319.*	“ “ “ “ 3 oz., 3 50; 4 oz.	4 00
2320.*	“ “ “Polyclinic,” with straight canula	1 60
2321.*	“ “ pure rubber, with shield, 1 oz.	30
2322.*	“ “ “ “ 1 oz., 25c.; 3 oz.	65

All instruments illustrated are designated by a *.

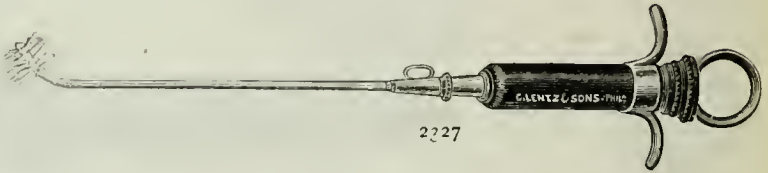
Ear Instruments.
SYRINGES AND BASINS.



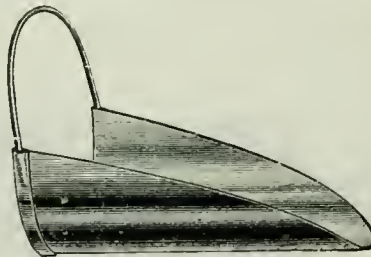
2329



2325



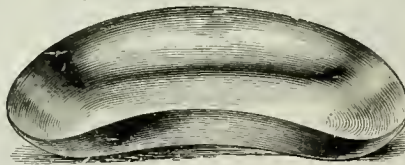
2327



2328



2331-2332



2333



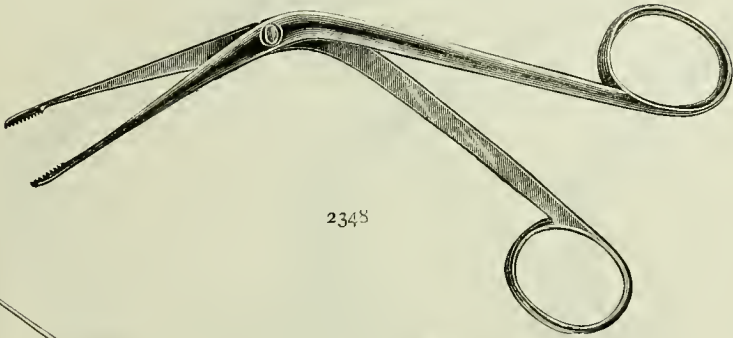
2336

2325.*	Middle Ear Syringe, Blake's with two silver points, in case	\$3 00
2326.	“ “ “ Colburn's, with lachrymal tip (see Lachry. Syringes,)	2 50
2327.*	Ear Syringe, Seiss', with perforated silver catheter	2 25
2328.*	Ear Spout, metal, nickel plated	35
2329.*	“ “ “ “ with tubing	60
2330.	“ Bueket, “ “ “ cone shape, 3 oz. capacity	65
2331.*	“ Basin, steel, white enamel, 9 1/4 x 3 3/4 inch	60
2332.*	“ “ “ “ “ 10 1/2 x 4 1/2 “	70
2333.*	“ “ glass, polished edge 8 x 4 inch, \$6 70; 9 x 4 inch	85
2334.	“ “ hard rubber 6 “ 1 25; 8 1/2 “	1 50
2335.	“ “ Papier Maché 6 “ 30; 8 1/2 “	40
2336.*	Aural Ice or Water Bag, Sprague's, with clamp, pure gum	1 00
2337.	Coil of Lead, Leiter's, for right and left ear each	1 50

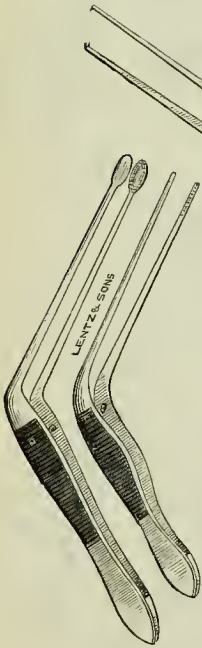
*All instruments illustrated are designated by a *.*

Ear Instruments.

DRESSING AND POLYPUS FORCEPS.



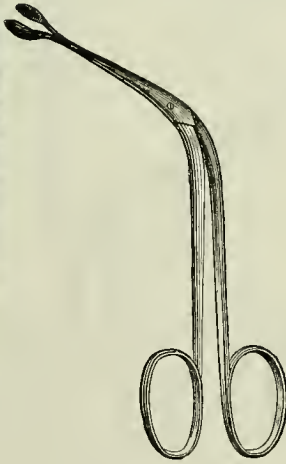
2345



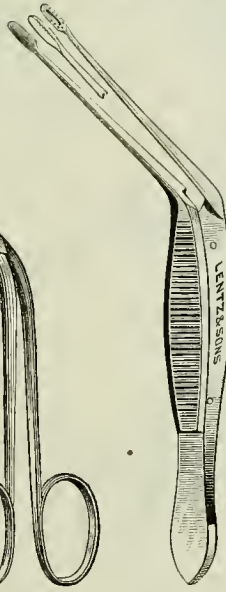
2344 2340



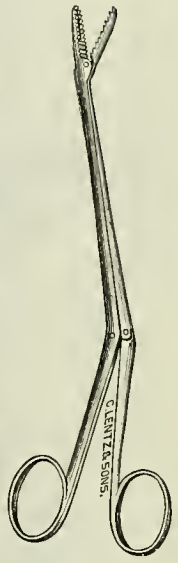
2341



2349



2343



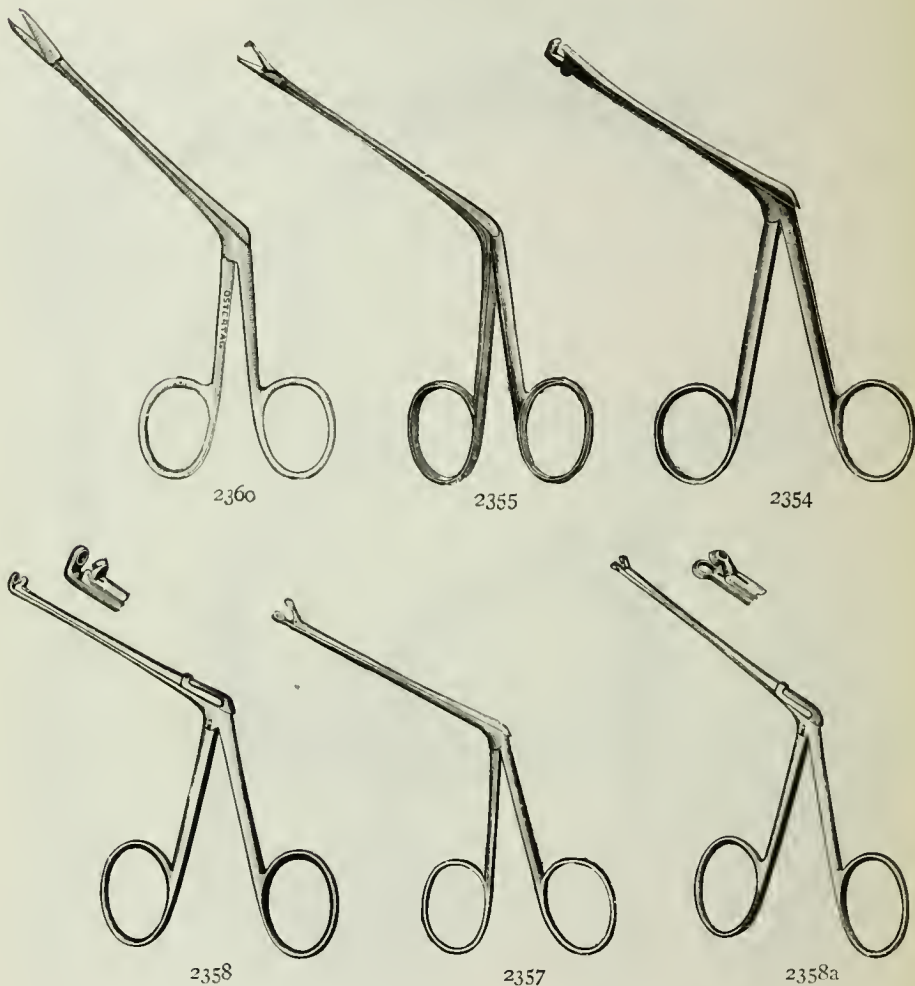
2351

2340.*	Ear Forceps, Wilde's serrated	\$0 75
2341.*	" " " mouse-toothed	75
2342.	" " " " " cross action	1 00
2343.*	" " " Politzer's, fine, straight or curved points	1 75
2344.*	" " " " " plain, " points	1 25
2345.	" " " McKay's, cross action, mouse-toothed	3 00
2346.	" " " Pomeroy's, mouse-toothed, ring handle	1 75
2347.	" " " Sexton's, " "	3 00
2348.*	" Polypus Forceps, Hartmann's,	1 50
2349.*	" " " Politzer's,	1 50
2350.	" " " Toyubec's, ring handle	1 50
2351.*	" " " Noyes', alligator jaw, serrated	2 00
2352.	" " " " " " cutting edge	4 25
2353.	" " " Bacon's, blunt curette, ring handles	2 25

*All instruments illustrated are designated by a *.*

Ear Instruments.

CUTTING FORCEPS, SCISSORS, ETC.



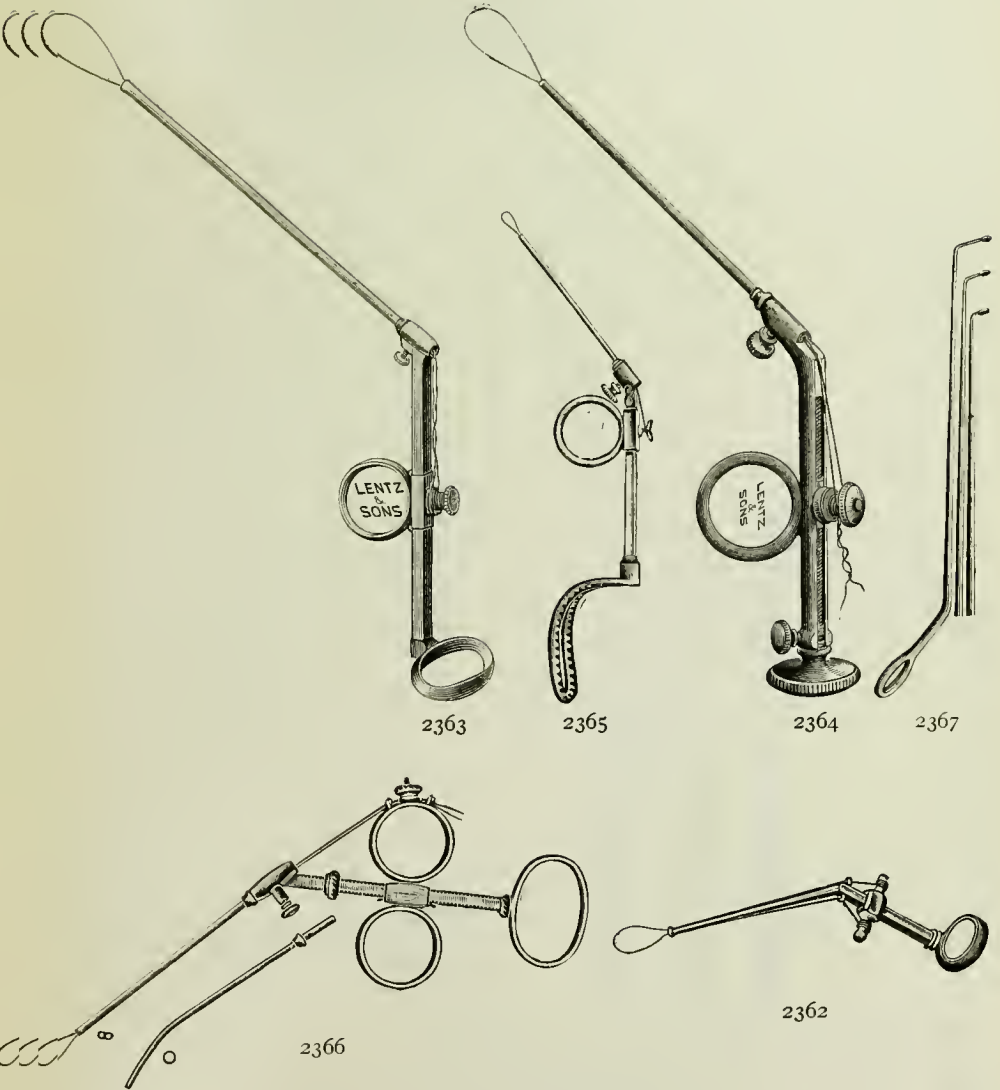
2354.*	Ear Forceps, Dench's, bone clipper for middle ear	\$6 50
2355.*	" " Hartmann's delicate, mousetoothed, alligator jaw	4 25
2356.	" " serrated, " "	3 50
2357.*	" " spoon shaped cutting edge, alligator jaw	4 25
2358.*	" " Hartmann-Citelli's, spoon shaped punch	8 00
2358a.*	" " Hoffmann's, round punch, straight	8 00
2359.	Ear Polypus Scissors, Gruber's	1 75
2360.*	" " Noyes'	5 00
2361.	" " Simrock's, articulating	4 50
2361a.	" " Trautmann's	4 50

*All instruments illustrated are designated by a **

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Ear Instruments.

POLYPUS SNARES. CURETTES.

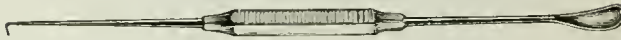


2362.*	Polypus Snare, Wilde's, plain	\$1 50
2363.*	" " Blake's, plain, \$2.00; fine, steel	3 00
2364.*	" " Radcliffe's, screw action, fine, steel	5 50
2365.*	" " Blake's, improved	2 00
2366.*	" " Pynchon's, with two canulae	2 00
2367.*	Middle Ear Curette, Blake's, three sizes	each 60
2367a.	Forceps for cutting and shaping wire for snares	1 00

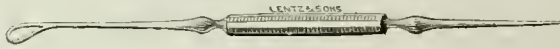
*All instruments illustrated are designated by a *.*

Ear Instruments.

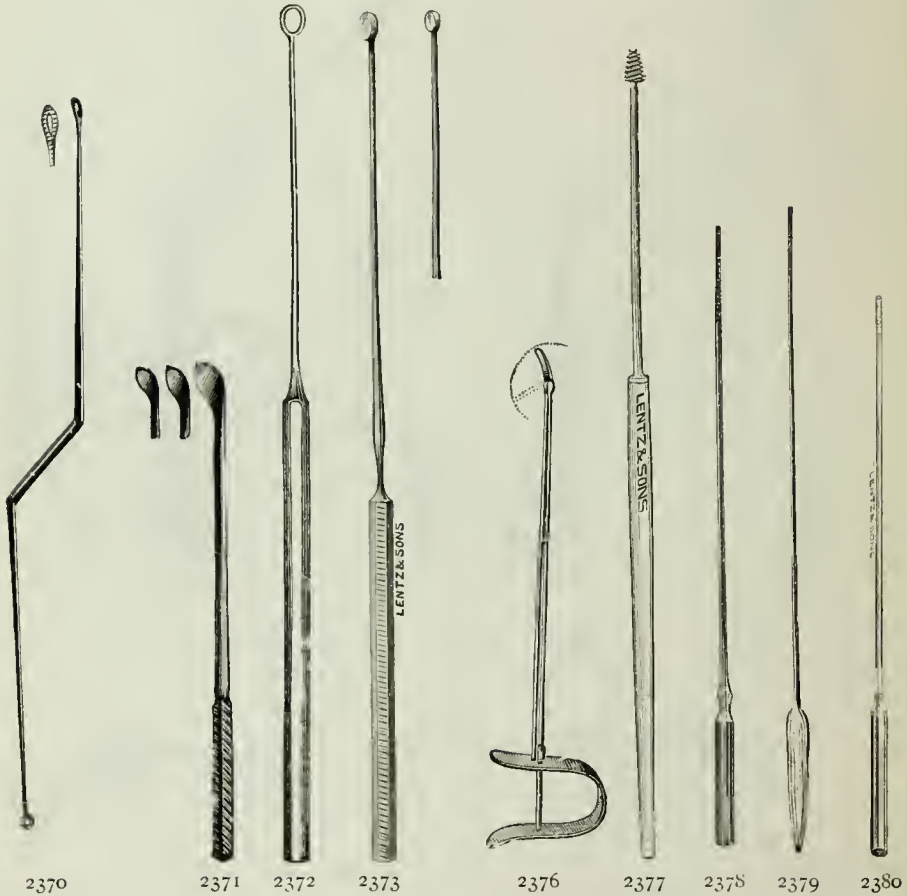
CURETTES AND FOREIGN BODY HOOKS.



2368



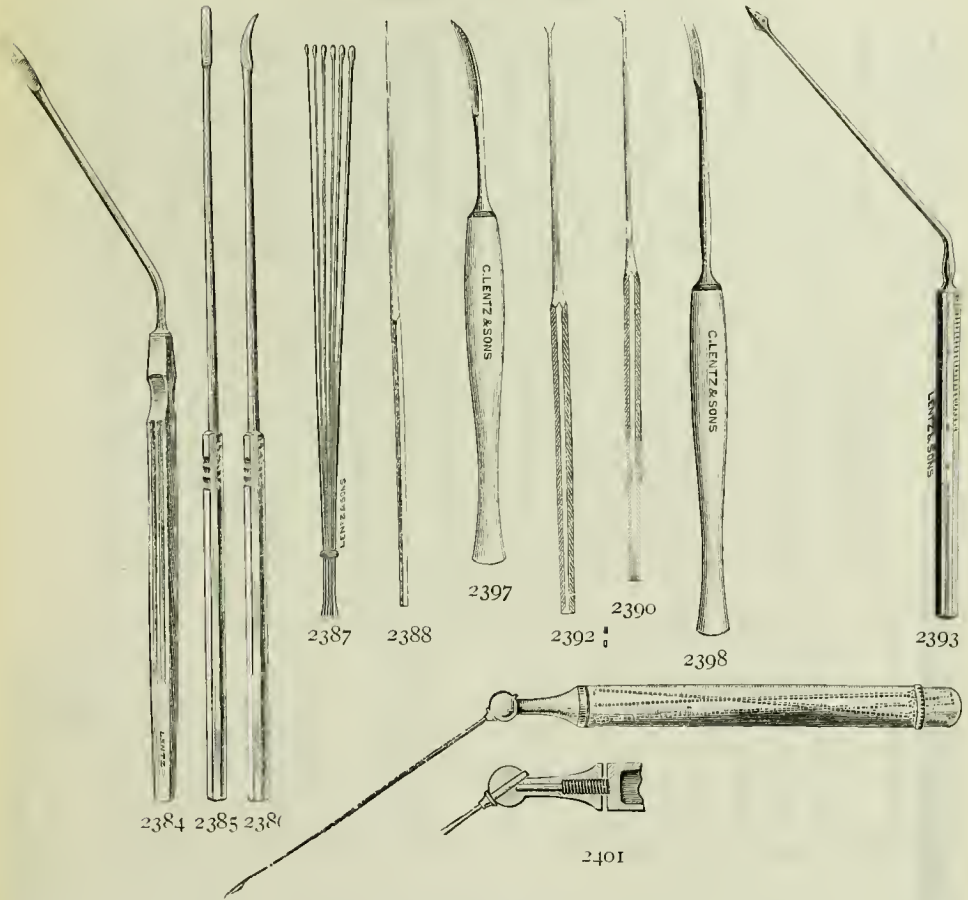
2369



- 2368.* Ear Spoon and Hook, Gross' brass, n. pla., 30c.; fine, steel, n. pla. \$o 50
- 2369.* " " " Fenestrated . . . " 40; " " " 65
- 2370.* " " Sexton's double, fine, steel, nickel plated 85
- 2371.* " Curette, Speir's spiral, three sizes each 40
- 2372.* " " Buck's blunt, steel, three sizes " 60
- 2373.* " " " sharp, " " " " 70
- 2374.* " " Wolf's adjustable, with set screw handle 2 50
- 2375.* " " " for carious matter " 1 50
- 2376.* Foreign Body Extractor, Quire's, automatic finger 1 00
- 2377.* " " " Lautenbach's " 1 25
- 2378.* Cotton Applicator, Allen's, tapering, steel, fine . . . dozen, \$1 25; each 15
- 2379.* " " " fine, aluminum handle " 2 00; " 20
- 2380.* " " " plain, steel " 90; " 10
- 2381.* " " " Ivins', steel " 25
- 2382.* " Reservoir, Phillips', improved, (see Nasal Instruments) 1 50
- 2383.* Waste Box for cotton (" " ") 1 50

Ear Instruments.

PERFORATORS, CAUSTIC APPLICATORS, ETC.

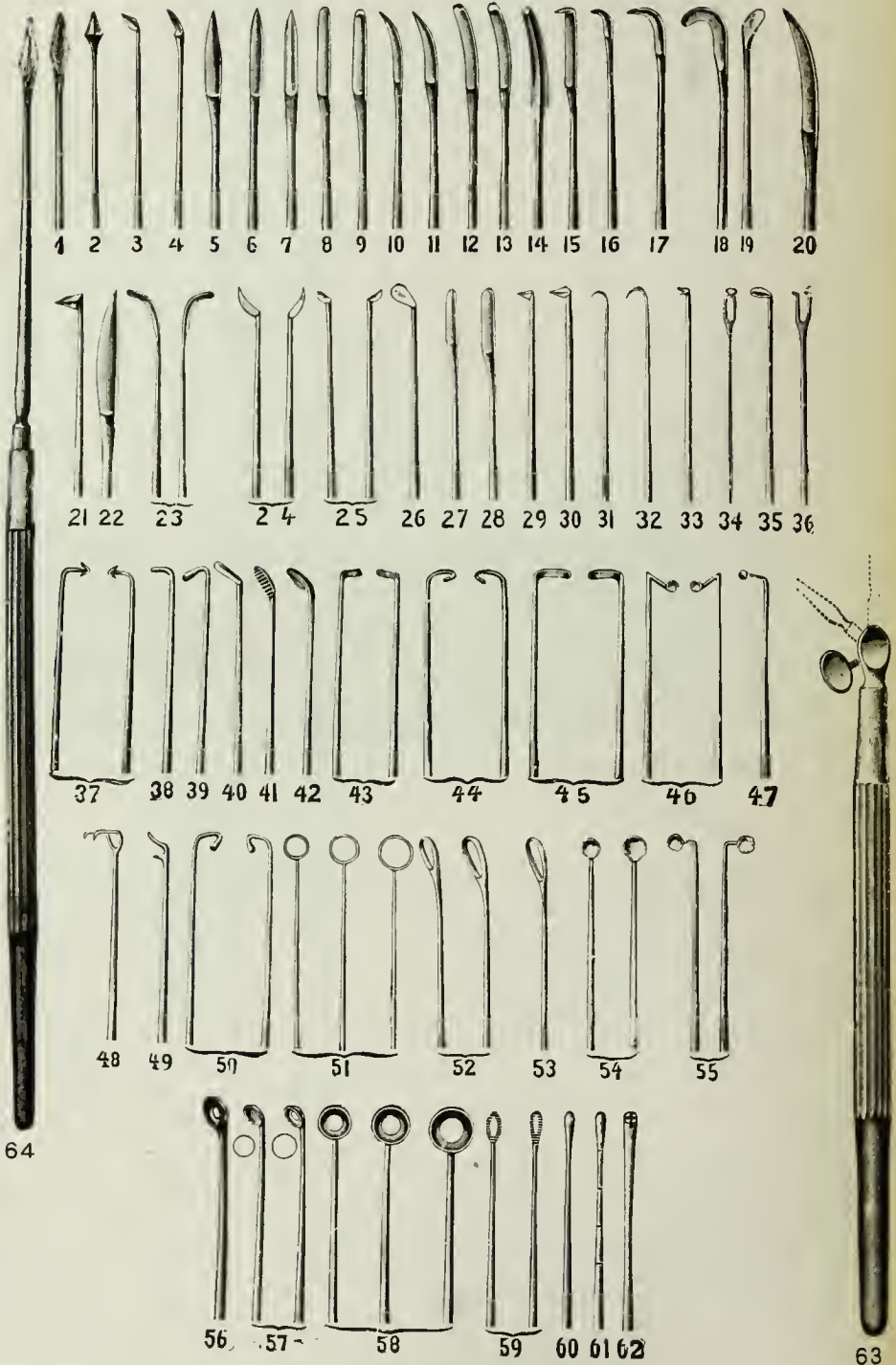


2387.*	Ear Probes, Urbantschitsch's; celluloid bougies; six sizes	per set	\$2 50
2387a.	" " whalebone bougies; five sizes	" "	1 50
2388.*	" Probe, Silver, Buck's	delicate, 40c.; heavy	50
2389.	" " Hartmann's angular		40
2390.*	Furuncle Knife, Buck's		1 00
2391.	" " Hartmann's		1 50
2392.*	Myringotome, Buck's		75
2384.*	Tympanum Perforator, Haden's, angular, double edge		1 50
2385.*	" " McCuen Smith's, straight, sharp and blunt pointed	each	1 25
2386.*	" " McCuen Smith's, curved, sharp and blunt pointed	each	1 25
2393.*	" " Politzer's angular		1 00
2394.	" " " straight		90
2395.	" " Williams'		1 75
2396.	" " Hartmann's		1 75
2397.*	Bistoury, Buck's, sharp pointed		1 50
2398.*	" " or probe pointed, long		1 50
2399.	Ear Hook, Berthold's, bayonet-shape shank		1 00
2400.	" " Hartmann's, very delicate		85
2401.*	Emergency Ear Case, Sprague's, with four instruments		4 75
2402.	" " without		1 50

*All instruments illustrated are designated by a *.*

Ear Instruments.

KNIVES, CURETTES, HOOKS, ETC.



64

63

Ear Instruments.

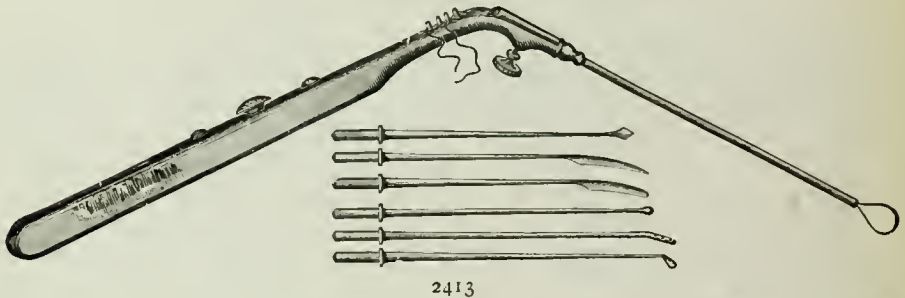
KNIVES, CURETTES, HOOKS, ETC.

1.	Politzer's Tympanum Perforator	\$o 65
2.	Troeltsch's " " " " " " " "	75
3.	Tympanum Perforator, angular blade	75
4.	Pierce's Tympanum Perforator	75
5.	Sexton's Sharp Knife	75
6.	Dench's Myringotome, single edge	75
7.	" " " " " " double " "	75
8.	Hotz's Straight Knife, blunt point	75
9.	Sexton's " " " " " " probe " "	75
10.	Politzer's Furuncle Knife	75
11.	Buck's Curved Bistoury, sharp point	75
12.	Curved Bistoury, blunt point	75
13.	Buck's Curved Bistoury, probe point	75
14.	Curved Bistoury, double edge, blunt point	75
16.	Full Curved Knife, sharp point, small	75
17.	" " " " " " sharp point, large	75
20.	Buck's Lancet, curved, sharp	75
21.	" " " " " " Furuncle Knife	75
22.	Sexton's Knife, large	75
23.	Schwartz's Tenotome, right and left	each 75
24.	Hartmann's Knife, " " " " " " " "	75
25.	Sexton's Ossicle Knife, " " " " " " " "	75
26.	" " " " " " Trowel Shaped Perforator	75
27.	" " " " " " Straight Knife, blunt point, small	75
28.	" " " " " " " " " " " " large	75
29.	Jacobson's Furuncle Knife	65
30.	" " " " " " " " " " " " lateral bend	65
31.	Hartmann's Sharp Hook, large	50
32.	" " " " " " " " " " " " small	50
33.	" " " " " " Double Hook	65
34.	Deville's " " " " " " " " " " " " " "	65
35.	Hartmann's Spatula	65
36.	Double Pronged Tenaculum, sharp	65
37.	Double Sharp Hook, right and left	each 65
38.	Blunt Hook, right angle	60
39.	" " " " " " acute	60
40.	Hartmann's Lever, obtuse angle	65
41.	Moldenhauer's Lever, serrated	65
42.	Hartmann's Grooved Lever	65
43.	Right Angle Blunt Hook, right and left	each 60
44.	Ferrar's Incus " " " " " " " " " " " " " "	60
45.	Ludwig's Lever, right and left	65
46.	Kretschmann's Incus Curette, right and left	75
47.	Allport's Incus Hook	60
48.	Hewitt's Stapes Hook	75
49.	Bishop's Ossicle Vibrator	65
50.	Incus Hook, probe point, right and left	each 60
51.	Buck's Ear Curette, blunt, 3 sizes	65
52.	Sharp " " " " " " oval, 2 " " " " " " " "	65
54.	Spoon Curette, round, sharp, 2 sizes	65
55.	Dench's Ear Curette, right and left	each 75
56.	Bishop's Middle Ear Curette, sharp	75
57.	Sharp Ear Curette, fenestrated, 2 sizes	75
58.	Politzer's Ear Curette, sharp, 3 sizes	75
59.	Hartmann's Serrated Ear Curette, 2 sizes	75
60.	Ear Probe, straight, plain	50
61.	" " " " " " graduated	60
62.	Trautmann's Cotton Packer	60
63.	Universal Handle with Set Screw, for holding instrument in either straight or angular position	each 1 00
64.	Plain Handle with Slip Socket, to fit any of the above ear instruments	25

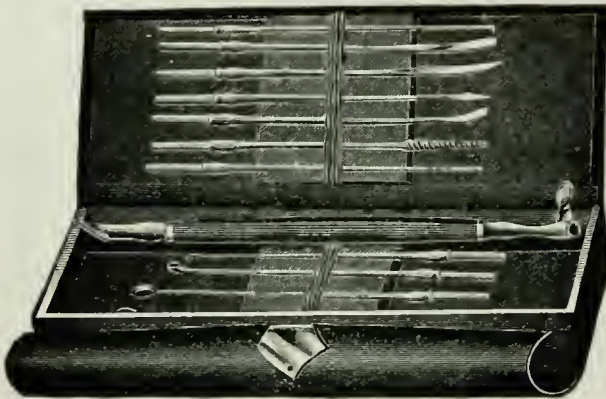
"The name LENTZ on any instrument is to you a guarantee of superior quality and absolute reliability."

Ear Instruments.

HOOKS, TENOTOMES AND SETS OF INSTRUMENTS FOR MIDDLE EAR.



2413



2414



2409 2410 2411 2412



2407

- | | | |
|--------|---|-----------|
| 2405. | Stapes Hook, Dench's, in handle, malleable shank | \$0 75 |
| 2406. | " " Hewitt's, to fit universal handle | 1 50 |
| 2407.* | " " Allport's | 1 35 |
| 2408. | Tenotome, Schwartz's, right or left | each 1 60 |
| 2409.* | " " Sexton's, angular blade, right, for removing ossicles | 1 75 |
| 2410.* | " " " " left " " " | 1 75 |
| 2411.* | Perforator, " trowel-shaped | 1 75 |
| 2412.* | Knife, " straight, blunt | 1 75 |
| 2413.* | Sexton's Set of Ear Instruments, containing 1 universal handle, Polypus Snare, Myringotome, Sharp-pointed Knife, Probe-pointed Knife, Stout Silver Probe, Applicator, Hoe-shaped Scraper, in fine case | 1 50 |
| 2414.* | Politzer's Set of Ear Instruments, containing 1 handle with straight and bent sockets, 2 Sharp Curettes, 1 Spoon, 1 Tenaculum, 1 Cotton Carrier, 1 Probe, 1 Perforator, 1 Blunt and 1 Sharp Pointed Knife, 1 Parcentesis Needle, 1 Cystotome, in a neat case | 7 00 |
| 2415. | Dench's Set of Instruments for Middle Ear, containing 1 straight curette; 1 probe point, double edged knife, curved on flat; 1 sharp knife, straight; 2 incus hooks, right and left; 2 angular knives; 1 blunt knife, straight; 2 angular curettes, right and left; 1 universal handle for above, with straight and angular shank, in fine case | 10 00 |
| 2416. | Bishop's Set of 15 Ear Instruments and universal handle, in metal case and steel frame chamois bag | 11 00 |
| | | 14 00 |

Ear Instruments.

MASTOID KNIVES, RETRACTORS, ELEVATORS.



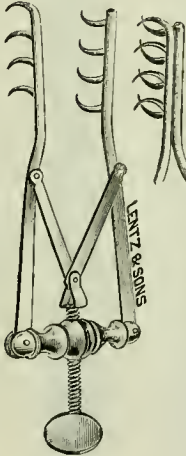
2418



2419



2420



2421



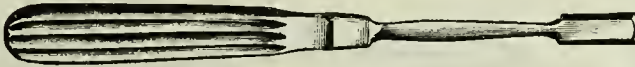
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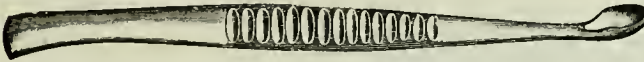
2423



2427



2428b



2429



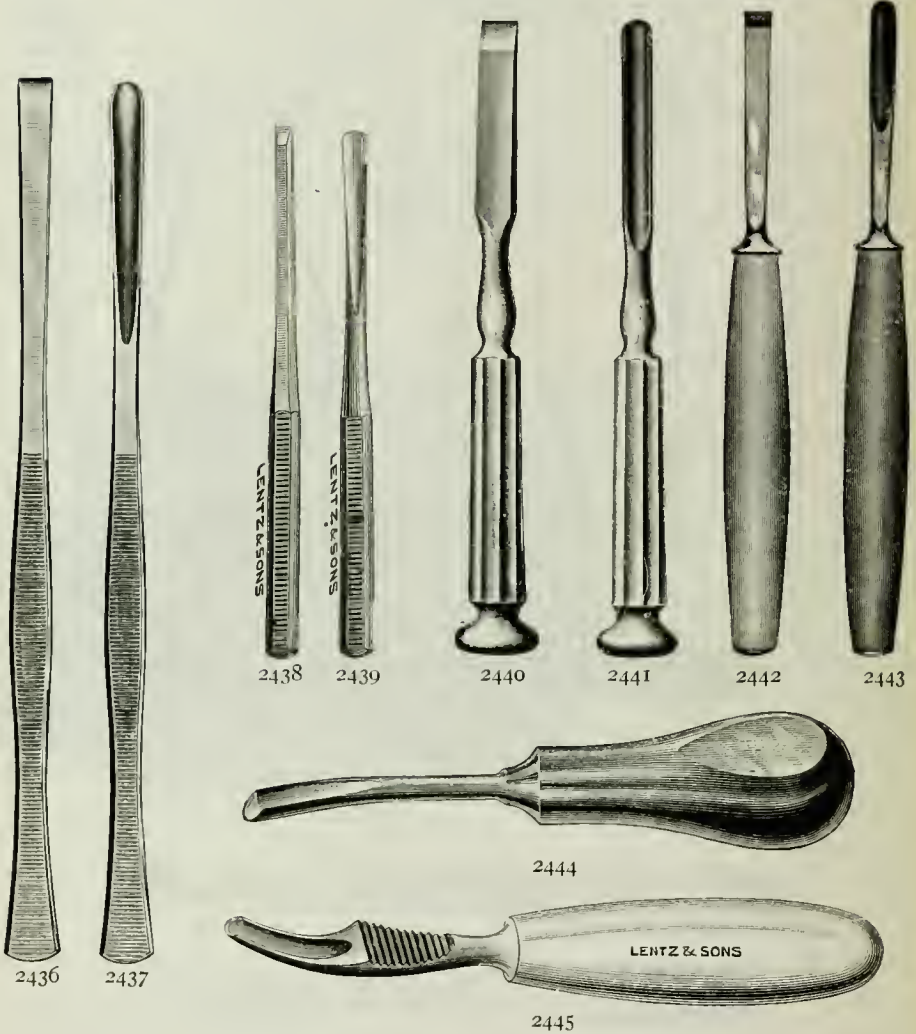
2431

2418.*	Mastoid Knife, Buck's	\$1 10
2419.*	" " Burnett's	1 15
2420.*	" " Politzer's	1 25
2421.*	" Retractor, Allport's	3 50
2422.	" " Jack's	7 50
2423.*	" " Volkmann's, with 2 or 3 prongs, \$1 10; 4 prongs . .	1 25
2424.	" " Thorner's	per pair 1 00
2426.*	" " Jansen's	4 00
2427.*	" Elevator, Periosteal, Langenbeck's	1 25
2428a.	" " " Hartmann's, straight edge	1 25
2428b.*	" " " " convex edge	1 25
2429.*	" " " and Curette, Ferguson's	1 50
2430.	" " " Bacon's	1 25
2431.*	" Periosteotome, Allport's	1 50

All instruments illustrated are designated by a *.

Ear Instruments.

MASTOID CHISELS AND GOUGES.



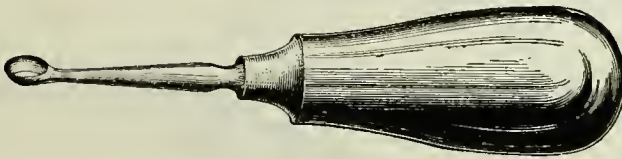
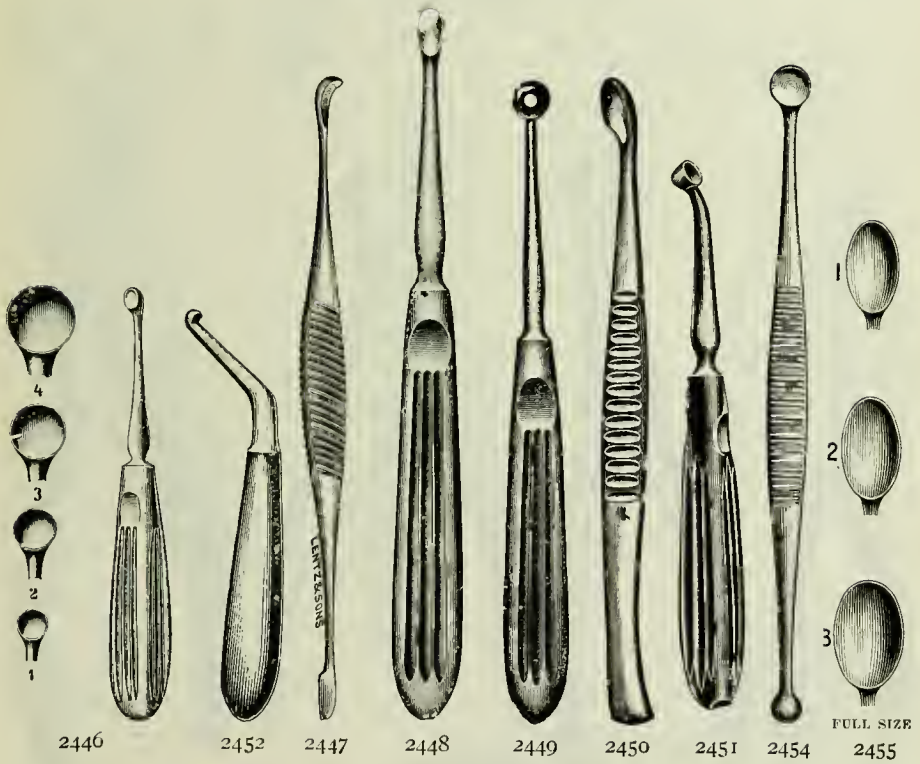
2436.*	Mastoid	Chisel, Bishop's, four widths	each	\$1 00
2437.*	"	Gouge, " " " "	"	1 00
2438.*	"	Chisel, Schwartz's, four widths	"	65
2439.*	"	Gouge, " " " "	"	75
2440.*	"	Chisel, Hajek's, " " 3, 6, 9, 12 m.m.	"	2 10
2441.*	"	Gouge, " " " " 3, 6, 9, 12 m.m.	"	2 25
2442.*	"	Chisel, Whiting's, " " 3 to 15 m.m.	"	2 00
2443.*	"	Gouge, " " " " 3 to 15 m.m.	"	2 25
2444.*	"	" " Randall's, one width, heavy handle	"	2 00
2445.*	"	" " Szymanowsky's, three widths, 3, 5, 7 m.m.	"	2 00

*All instruments illustrated are designated by a *.*

"Our own well-equipped factory is at your command for the production of any special instrument which you desire made. Our mechanics are experts in their various specialties. Our charges are as moderate as consistent with first-class work."

Ear Instruments.

MASTOID CURETTES.



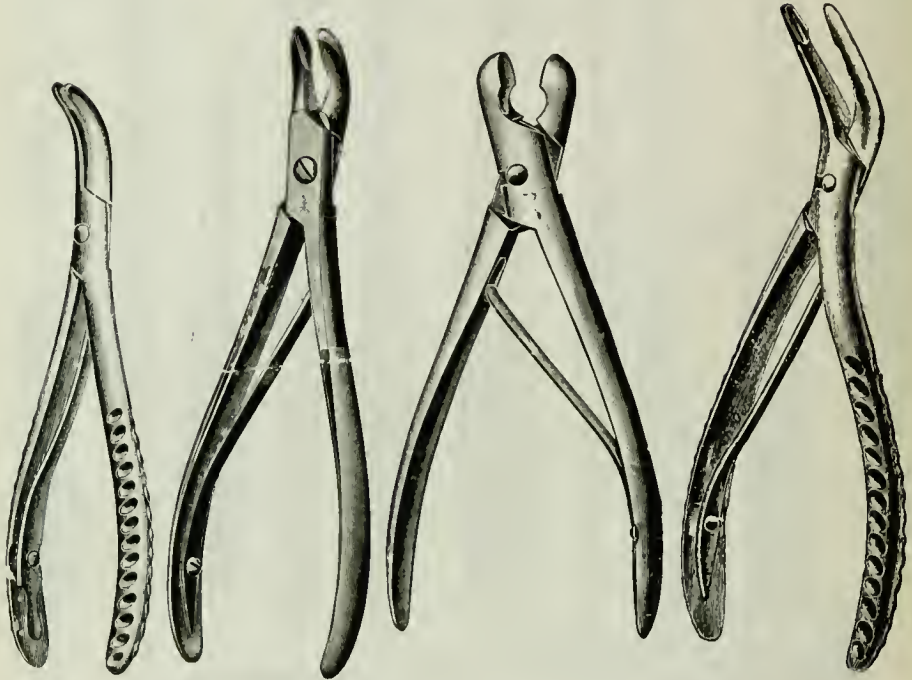
2453

2446.*	Mastoid Curette,	Buck's, four sizes	each	\$1 25
2447.*	"	Gleason's, double end, round and oval spoons . . .	1	75
2448.*	"	Whiting's, solid spoon, four sizes	each	1 75
2449.*	"	" fenestrated spoon, three sizes	"	1 75
2450.*	"	and Elevator	1	25
2451.*	"	Richards', three sizes	each	2 75
2452.*	"	Katz's " "	"	2 00
2453.*	"	McKernon's, four sizes	"	2 25
2454.*	"	Volkmann's, double end, round spoons, 6 inches long	1	35
2455.*	"	" single, oval or round spoon	1	50
2455a.	"	Barth's, double end, narrow spoons, two sizes. each	1	50
2455b.	"	Prince's	2	50

*All instruments illustrated are designated by a *.*

Ear Instruments.

MASTOID RONGEUR FORCEPS.

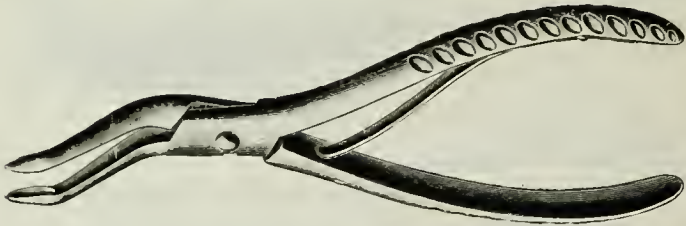


2456

2456a

2456b

2456c



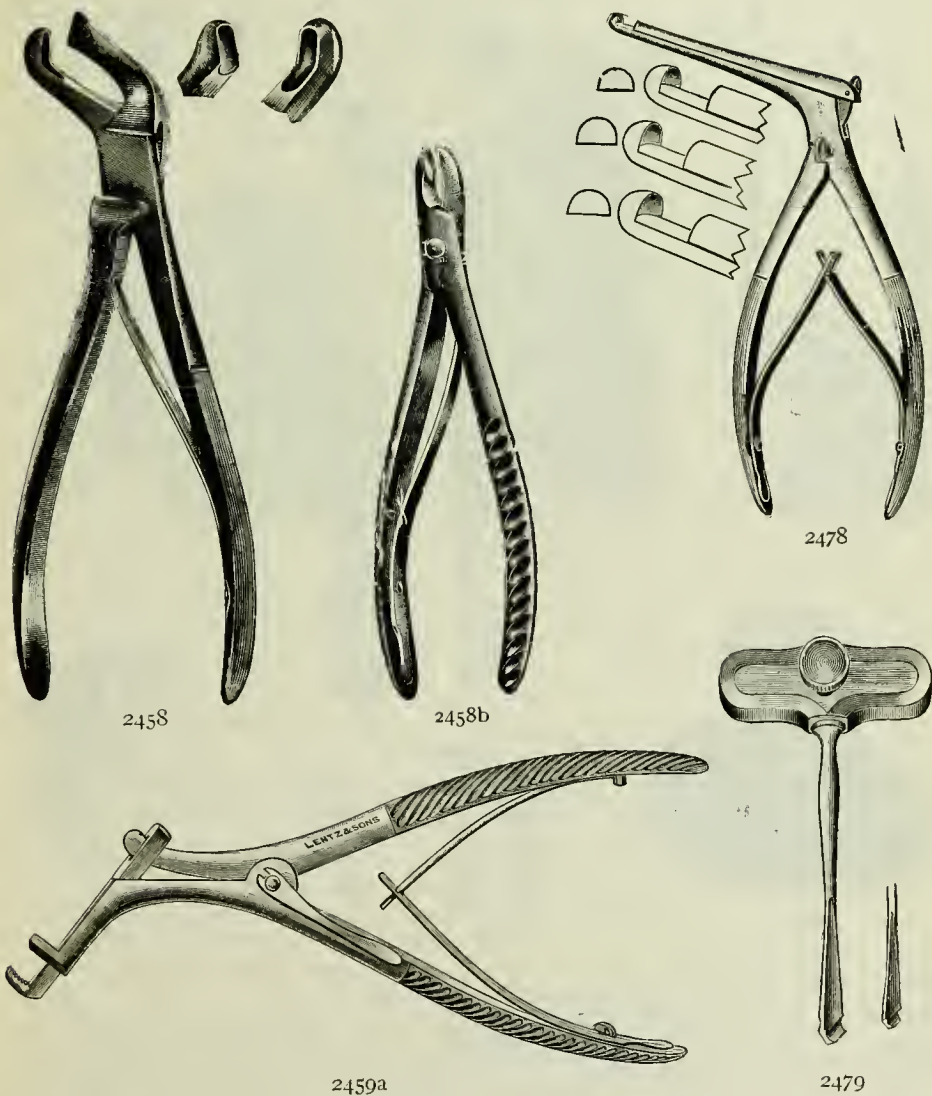
2457

2456.*	Mastoid Rongeur Forceps,	Luer-Hartmann's, full curved	\$3 25
2456a.*	"	" Banes', curved	3 50
2456b.*	"	" Whiting's	3 50
2456c.*	"	" Lucae's, curved	4 50
2457.*	"	" Jansen's, double curved	5 00
2457a.	"	" Hartmann's, angular to side	3 50
2457b.	"	" Hopkins', small	3 00
2457c.	"	" Hoffmann's	3 50

All instruments illustrated are designated by a *.

Ear Instruments.

MASTOID RONGEUR FORCEPS.



2458.*	Mastoid Rongeur Forceps,	Lombardi's.	French joint,	\$5 75;	box joint	\$6 50
2458a.	"	"	"	Bacon's		4 00
2458b.*	"	"	"	Luer-Hartmann's,	slightly curved	3 00
2459.	"	"	"	Killian's		4 00
2459a.*	"	"	"	Allport's		10 00
2459b.	"	"	"	Cozzolini's		12 50
2478.*	Tympanic	"	"	Kerrison's,	three sizes	each 7 50
2479.*	Mastoid Drills,	Buck's,	set of three,	with one handle		3 00
2479a.	"	Drill,	Wilson's,	with adjustable guard		3 75
2479b.	"	Trephine and Burr-head,	Randall's,	with one handle		5 00

*All instruments illustrated are designated by a *.*

Ear Instruments.

MASTOID.

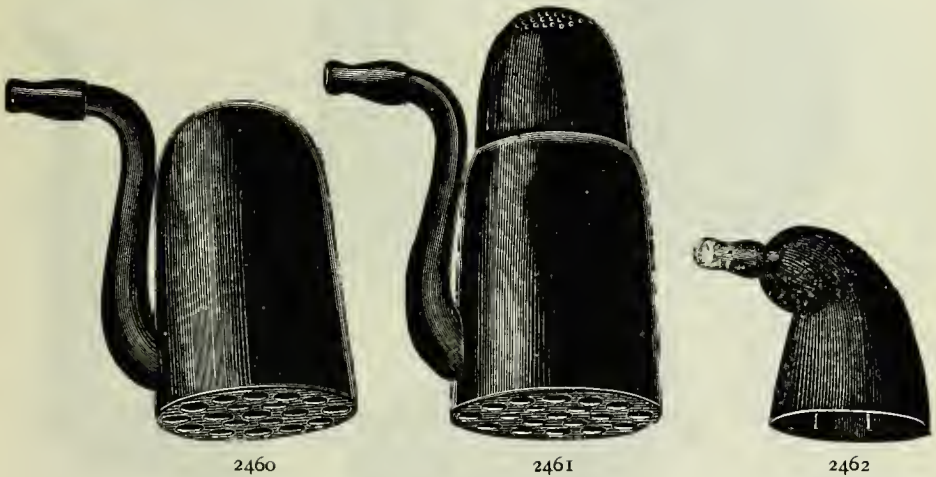


2480.*	Mastoid Burr, Allport's, Eustachian	\$2 25
2480a.*	" " Ballenger's, four sizes each	2 25
2481.*	" Mallet, metal, small, lead filled	1 50
2481a.*	" " Robbins', steel, wooden handle	1 75
2481b.	" " lignum vitae small, 75c.; medium	85
2481c.	" " fibre, Allport's	2 50
2482.*	" Probe, heavy, silver	50
2483.*	" Tube, Knapp's, "	60
2483a.*	" " Gruening's, silver	75
2484.	" Measure, Plummer's, plain or with searcher	1 50
2485.*	Guard for Facial Nerve, Stacke's	85
2485a.*	Mastoid Gauze Packer, Allport's	75
2486.*	Device to Correct Projecting Ears; three sizes each	1 50
2486a.*	" " " " " linen, five sizes " "	1 00

All instruments illustrated are designated by a *.

Ear Instruments.

AIDS TO HEARING. †



2460.*	“London” Hearing Horn, size 1—2½ in. high x 2 in. diameter . . .	\$3 50
	“ 2—3 “ “ x 2¼ “ . . .	4 00
	“ 3—3½ “ “ x 2¼ “ . . .	4 00
	“ 4—3¾ “ “ x 2¼ “ . . .	4 50
	“ 5—4 “ “ x 2¼ “ . . .	4 50

Registered mail, 15 cents.

This hearing instrument is nearly universally used by those who are in any manner troubled with deafness. It is made on scientific principles, of *bell metal*, elegantly finished and either coated in dead black or nickel plated, and is of such size that it can scarcely be seen when held in the hand.

The largest size is especially recommended for use in church, lecture hall, etc., as it facilitates the hearing at long distance with comfort.

2461.*	“Duplex London” Horn	\$6 00
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Registered mail, 18 cents.

Made on the same principles as the “London” Horn, with the addition of a perforated dome top, which enables the person to hear speakers in back as well as in front of the instrument. By many it is considered more powerful generally than the “London” Horn. It is made only in the large size, coated in dead black or nickel plated.

2462.* **Acustophone**; a peculiarly constructed instrument which in a large measure overcomes the sonorous sound complained of in using various trumpets.

The Acustophone is small enough to be concealed by the palm of the hand. Made in two sizes, finished in dead black.

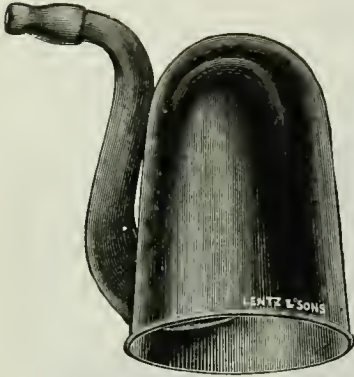
	Small size, 1¾ in. high x 1⅜ in. diameter	\$5 50
	Large “ 2¾ “ “ x 1¾ “	6 50

Registered mail, 15 cents.

To facilitate selection, we allow one or more hearing instruments on a ten days’ trial.

Ear Instruments.

AIDS TO HEARING. †



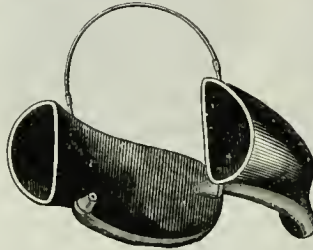
2463



2465



2466



2464

2463.* **Grand Opera Dome**, made in three sizes, small enough to be carried conveniently in the pocket.

Size 1—	2 $\frac{5}{8}$ in. high	x 2 in. diameter	.. . . .	\$4 00
" 2—	3 " "	x 2 $\frac{1}{8}$ " "	.. . . .	4 50
" 3—	3 $\frac{5}{8}$ " "	x 2 $\frac{1}{4}$ " "	.. . . .	5 00
Registered mail, 16 cents.				

Made of hammered *bell metal*, and coated with a jet black *insulation* thoroughly baked on inside and outside. This insulation presents the advantage that it excludes the roaring or buzzing noises experienced in most hearing instruments.

2464.* **Trumpet**, long pattern, tin, japanned; made in five sizes.

Size 1.	Diameter,	3 $\frac{3}{8}$ inches	.. . . .	\$1 25
" 2.	" "	4 $\frac{1}{4}$ " "	.. . . .	1 25
" 3.	" "	5 " "	.. . . .	1 50
" 4.	" "	5 $\frac{1}{4}$ " "	.. . . .	1 50
" 5.	" "	5 $\frac{3}{4}$ " "	.. . . .	1 75

This trumpet, while simple in construction and inexpensive, has proven a great help to many, and is often the only instrument that will assist some persons who are very deaf, in general conversation at home or in public halls. The greater the diameter of the mouth, or, in other words, the larger the opening of the trumpet, the greater is the power of magnifying sound.

The tin trumpet is constructed of two parts, reversible for right or left ear, and is neatly japanned.

2465.* **Trumpet**, short pattern, tin, japanned \$3 00

Very compact and more handy to carry than fig. 2464. It is very powerful, but will not answer in all cases. One size only.

2466.* **Auricles** per pair \$4 50

Registered mail, 20 cents.

These are a very convenient appliance. They are worn as shown in cut, without being held by the hand.

The spring that reaches over the head is adjustable to fit any head, and the sound is conveyed to both ears at the same time. They are especially adapted to table conversation, or when engaged in housework, sewing, writing, etc., where the use of the hands are required. They are made of brass and covered with black silk; made in three sizes.

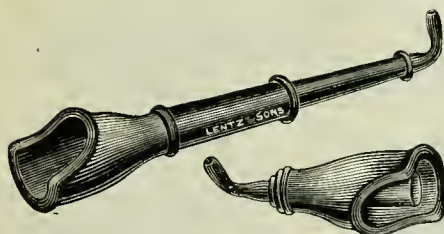
To facilitate selection, we allow one or more hearing instruments on a ten days' trial.

Ear Instruments.

AIDS TO HEARING. ‡



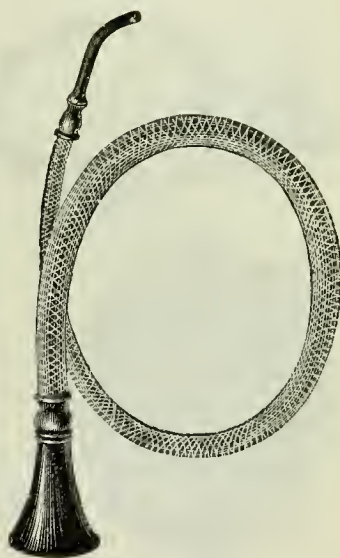
2467



2468



2469



2470

2467.* **Telescopic Trumpet**, straight bell; made of hard rubber, highly polished, in two or three sections, and can be carried conveniently, as the sections will slide over each other compactly . . . two sections, \$2 75; three sections \$3 50
Registered mail, 15 cents.

2468.* **Telescopic Trumpet**, with scoop-shaped bell, which admits sounds from speaker at one's side; hard rubber, two sections, \$2 75; three sections . . . 3 50
Registered mail, 15 cents.

In construction similar to fig. 2467, but with the sound receiver so shaped that conversation may be carried on from the side. It is for this reason considered more convenient. The illustrations show the instrument extended ready for use, and telescoped for convenient carrying.

2469.* **Miss Greene's Hearing Horn**, tin, japanned, made in two sections . . . \$1 75

This is a new device, being an improvement in shape over all other tin trumpets, and is more easily carried. The sound-receiving end is flat oval shape, $5\frac{1}{2}$ inches in diameter by $1\frac{1}{2}$ inches in depth. Its peculiar formation is especially adapted to gather in sounds and convey them audibly and distinctly to the ear.

It is one of the best arrangements for conversation or public speaking.
It can be held to the ear without raising the hand.

2470.* **Conversation Tube**, conical, 3 feet long, medium diam., mohair-covered . . . \$2 50
3 " " " " silk-covered . . . 3 00
3 " " large " " mohair-covered . . . 3 00
3 " " " " " silk-covered . . . 4 00
5 " " " " " " . . . 5 50

The conversation tube is pre-eminently the most powerful of all hearing instruments, and is the most efficient for very deaf people. While the conversation tube is not suitable to convey the waves of sound to the ear from a distance, yet it excels all other hearing instruments for close conversation.

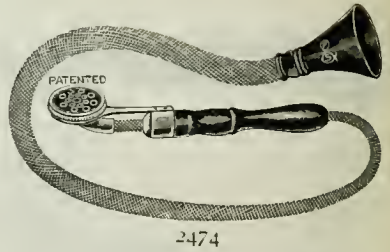
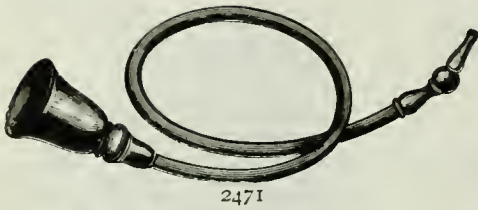
It is particularly convenient at the table or in company, as those speaking need only to whisper, and a conversation can be carried on without attracting attention.

The tube is made of a *conical* coil of plated wire, covered with rubber and finished with either silk or mohair. The ear and mouth pieces are of hard rubber, highly polished.

To facilitate selection, we allow one or more hearing instruments
on a ten days' trial.

Ear Instruments.

AIDS TO HEARING. ‡



- 2471.* Conversation Tube, straight, 3 feet long, small diameter, silk covered . . \$2 00
 Similar in construction to No. 2470, except that the wire coil is not conical, but straight and of small calibre.
- 2474.* Audiclare, with straight tube, 3 feet long 7 00
 " " conical " 3 " " 8 00
- 2478.* " Trumpet, the horn part is finished in jet black. 6 50
 The Audiclare is a combination of either conversation tube or horn-with telephonic ear disc. The obviation of the ordinary ear tip makes it especially desirable to persons with oversensitive ears.
- 2473.* Audiphone or Conversation Fan; round, one size 5 00
 This instrument is used in the manner shown in the illustration, and is only of service where the front teeth are sound.
- 2477. Grand Opera Dome, hard rubber covered, otherwise similar in shape and size to No. 2463; small, medium or large size each 5 00
 Registered mail, 20 cents.
 The roaring noise often complained of in other instruments of this character is entirely eliminated in this one on account of its heavy covering of hard rubber.
- 2475.* Artificial Tympanum, Toynbee's; a round disk of pure rubber, secured to a silver wire stem. (Not sent on trial.) 50

*All instruments illustrated are designated by a *.*

To facilitate selection, we allow one or more hearing instruments on a ten days' trial.

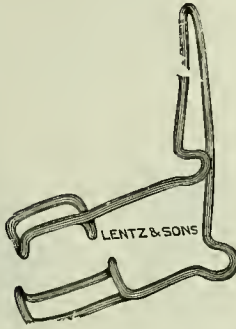
Section V.

Nasal Instruments.

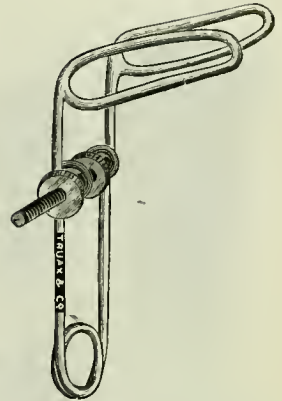
SPECULA.



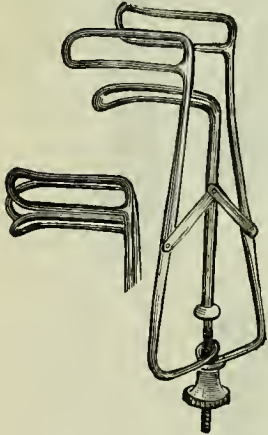
2490



2491



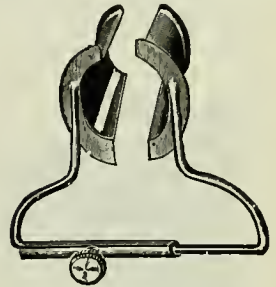
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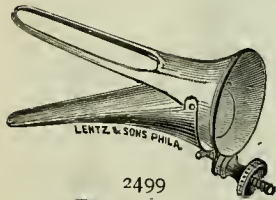
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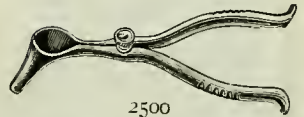
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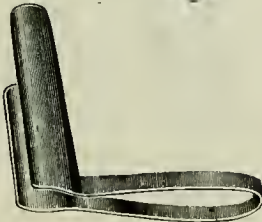
2498



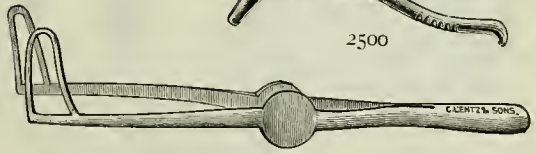
2499



2500



2502



2497

2490.*	Speculum, Goodwillie's, two sizes	each \$0 50
2491.*	" Gleason's, "	" 40
2492.*	" Bishop's	1 00
2493.*	" Potter's	1 00
2494.*	" Fraenkel's	1 00
2495.	" Folsom's, with screw	1 00
2496.	" Thudicum's	5c
2497.*	" Bosworth's, all steel	85
2498.*	" Myles', with set screw	1 25
2499.*	" Collin's	1 50
2500.*	" Kyle's, bivalve	85
2501.	" Foster's submucous	1 35
2502.*	" Ballenger's, "	1 00

Nasal Instruments.

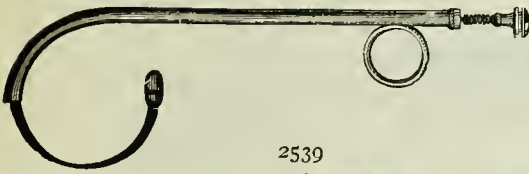
SPECULA.



2503.*	Speculum, Allen's, hard rubber, oval	set of three	\$0 75
2504.*	" Spencer's, " " " short		75
2505.*	" Simock's, metal, 3 sizes	each, 60c.; " "	1 50
2506.	" Claiborne's, tubular, metal		1 00
2507.*	" Jarvis', plain, ring catch		50
2508.*	" Robert & Collin's		1 50
2509.*	" Freeman's, long curved handle, without setscrew		1 50
2510.	" Roth's, bivalve, with set screw		1 00
2511.*	" Ivius', wire, with solid blades		50
2512.	" Watson's, wire		35
2513.*	" Ingal's		90
2514.*	" Coulter's		1 00
2515.*	" Ralph Seiss', bivalve		1 00
2516.*	" Killian's, steel, blades 2, 3 or 3½ in. long	each	2 50
2517.	" Cholowa's mod. by G. M. Marshall		2 75
2518.	" Monosmith's		1 25
2518a.	" Hartmann's, bivalve		1 25
2519.	" Allen-Heffernan's, wire, right and left	each	3 35
2519a.	" Vienna, bivalve		1 00
2519b.	" Bivalve, illuminating (see page 231)		4 00

Nasal Instruments.

APPLICATORS AND RESERVOIRS.



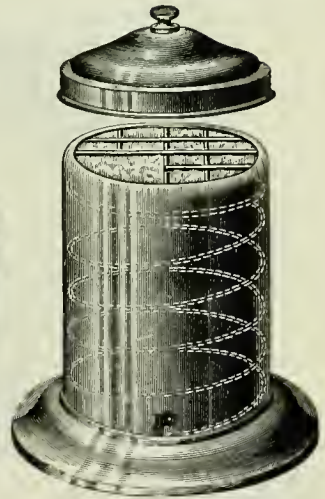
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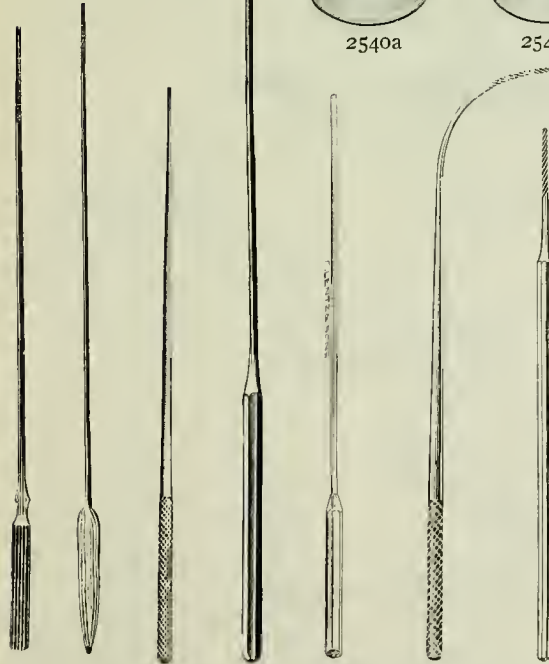
2540a



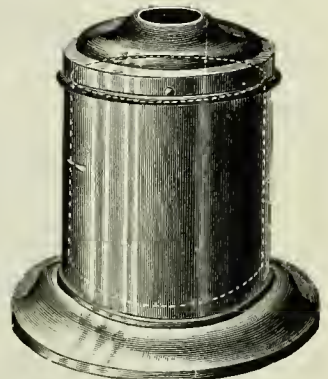
2541a



2540



2521 2522 2523 2524 2525 2526 2527



2541

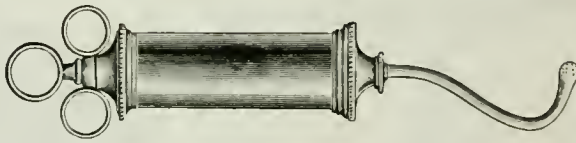
2521.*	Cotton Applicator, Allen's, tapering, steel, fine . . . dozen, \$1 25; each \$0 15
2522.*	" " " " aluminum handle; . . . dozen, \$2 00; " 20
2523.*	" " " " Kyle's " " triangle end; . . . dozen, \$2 00; " 20
2524.*	" " " " spiral end, long . . . " \$2 00; " 20
2525.*	" " " " plain, steel . . . " 90c.; " 10
2527.*	" " " " Ivins', steel, fine 20
2526.*	" " " " " post-nasal, steel 25
2526a.	" " " " " Carr's, long tapering, steel, fine 25
2531.	Acid Applicator, MacCoy's, flexible, lever movement 4 50
2539.*	Canula, Bellocq's, for epistaxis, silver plated 1 00
2540.*	Reservoir for Cotton, Phillips', improved 1 50
2540a.*	" " " " Farrell's 90
2541.*	" " " " Waste Cotton, Campbell's 1 50
2541a.*	" " " " " Farrell's 75

*AV instruments illustrated are designated by a *.*

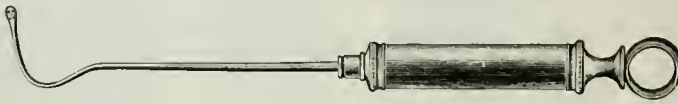
Nasal Instruments.

POST NASAL SYRINGES.

APPLICATING FORCEPS, ETC



2542



2542a



2542b



2543



2543a

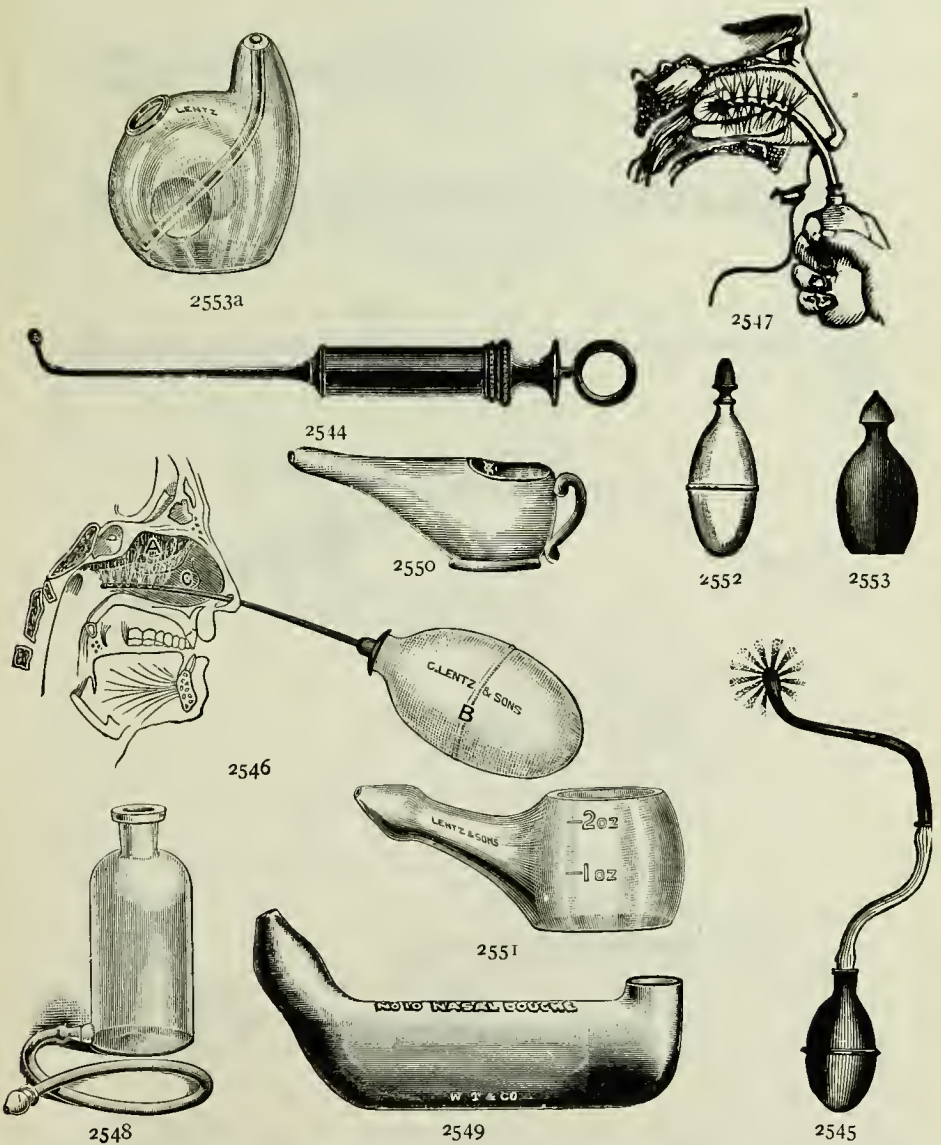


2533

2533.*	Post Nasal	Applicating Forceps, cross acting	\$3 25
2542.*	"	" Syringe, Cohen's, all metal	3 50
2542a.*	"	" " " Coover's, hard rubber, with flexible metal tube	2 00
2542b.*	"	" " " " " Leffert's, all metal, two tips	1 75
2543.*	"	" " " Tube, metal, Holmes', with oval opening	65
2543a.*	"	" " " " " " " flat slotted opening	65

All instruments illustrated are designated by a *.

Nasal Instruments.
SYRINGES AND DOUCHES.



2544.*	Post Nasal Syringe, hard rubber, ½ oz.	\$o 85
2545.*	" " " Warner's, hard rubber tube	75
2546.*	Nasal Spray, Shoemaker's, " " .dozen, \$7 50; each	75
2547.*	" " "Success," soft rubber tube	75
2548.*	" Douche, Thudicum's	75
2549.*	" " glass, mod. Bermingham's	25
2550.*	" " Dessar's, glass	25
2551.*	" " Kirkpatrick's, glass, graduated	25
2552.*	" " rubber bulb with hard rubber tip	25
2553.*	" " all soft rubber	25
2553a.*	" Fowler's, glass. By applying tip to nostril and blowing into opening the liquid is forced out	50

Powder Blowers and Atomizers see Throat Instruments.

Nasal Instruments.

SNARES.



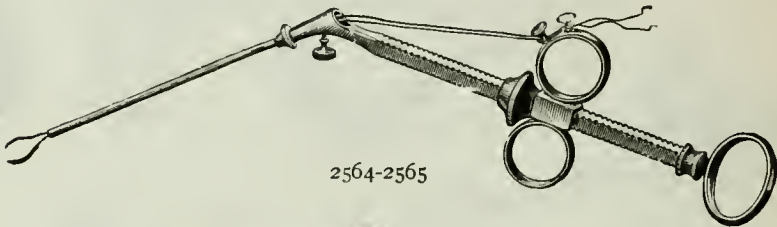
2558-2559



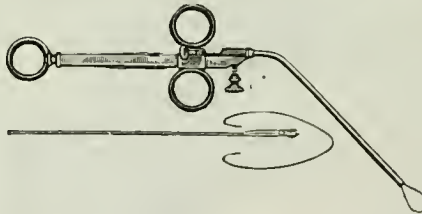
2560



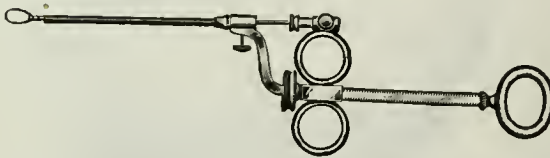
2561-2562



2564-2565



2566



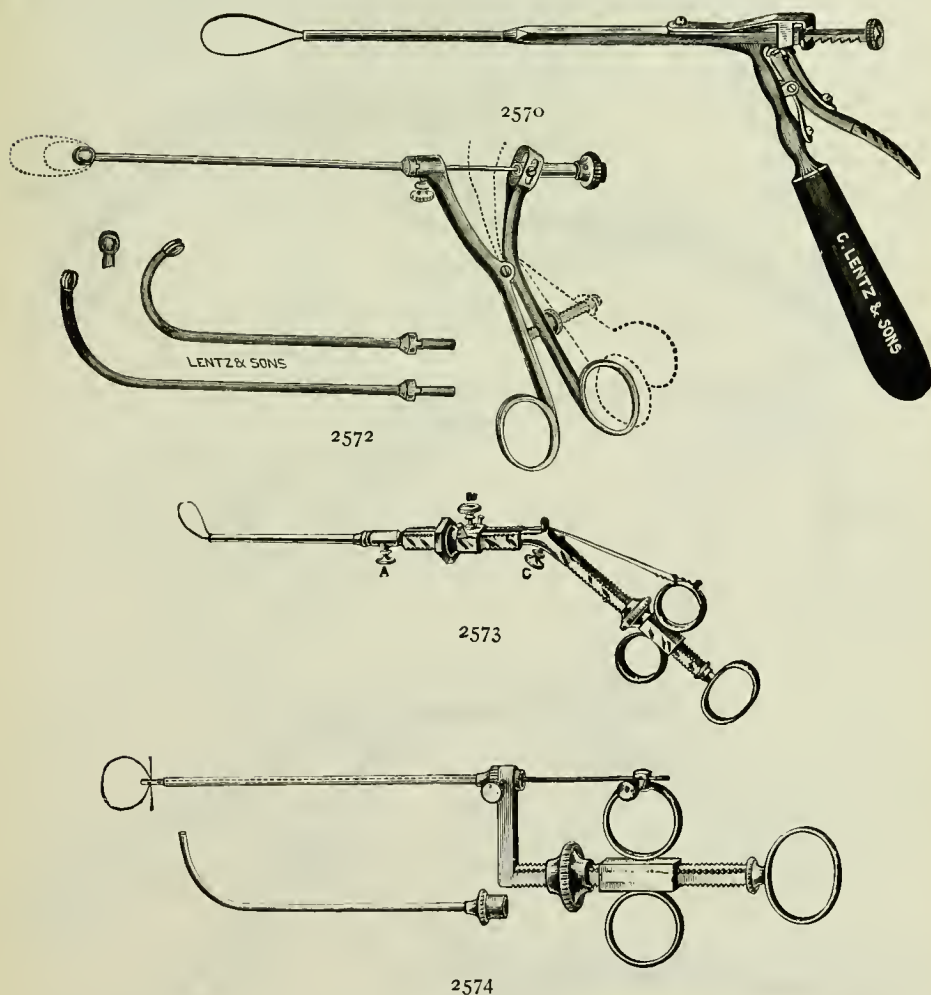
2568

2558.*	Snare, Jarvis', steel, light and strong	\$2 25
2559.*	" " plain, brass, nickel plated	1 25
2560.*	" " all steel, with Seiler's claw attachment	4 00
2561.*	" Sajous', steel, light and strong	2 25
2562.*	" " plain, brass, nickel plated	1 25
2564.*	" Bosworth's, steel, two tubes, straight and curved	3 00
2565.*	" " brass " " " " " "	1 50
2566.*	" Krause's, with stilette	4 00
2568.*	" Douglass', steel, fine	3 50

*All instruments illustrated are designated by a *.*

Nasal Instruments.

SNARES.



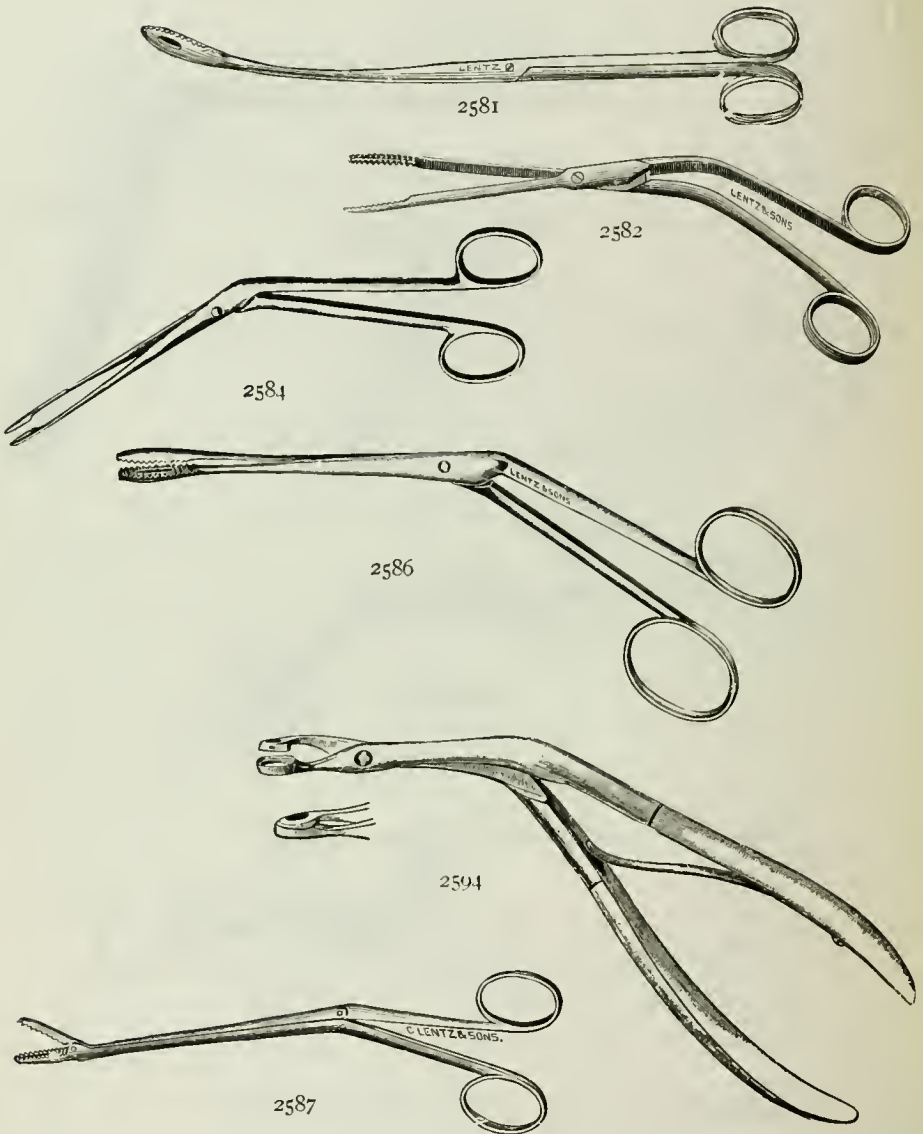
2570.*	Snare, Wright's, straight and curved tube, steel, metal handle	\$6 00
2571.	" " " " " " " steel, folding handle	7 00
2572.*	" Sajous', three tubes, all steel	6 50
2573.*	" Dench's	5 00
2574.*	" Martin's	4 00
2575.	" Hope's	4 00
2576.	" Ingal's, with 6 tubes, in case	5 00
2578.	Wire for Snares, silvered steel, 6 sizes	per spool 10
2578a.	Forceps for cutting and shaping Snare wire	1 00

For Galvano-Cautery Snares see "Electrical Apparatus."

All instruments illustrated are designated by a *.

Nasal Instruments.

POLYPUS FORCEPS.

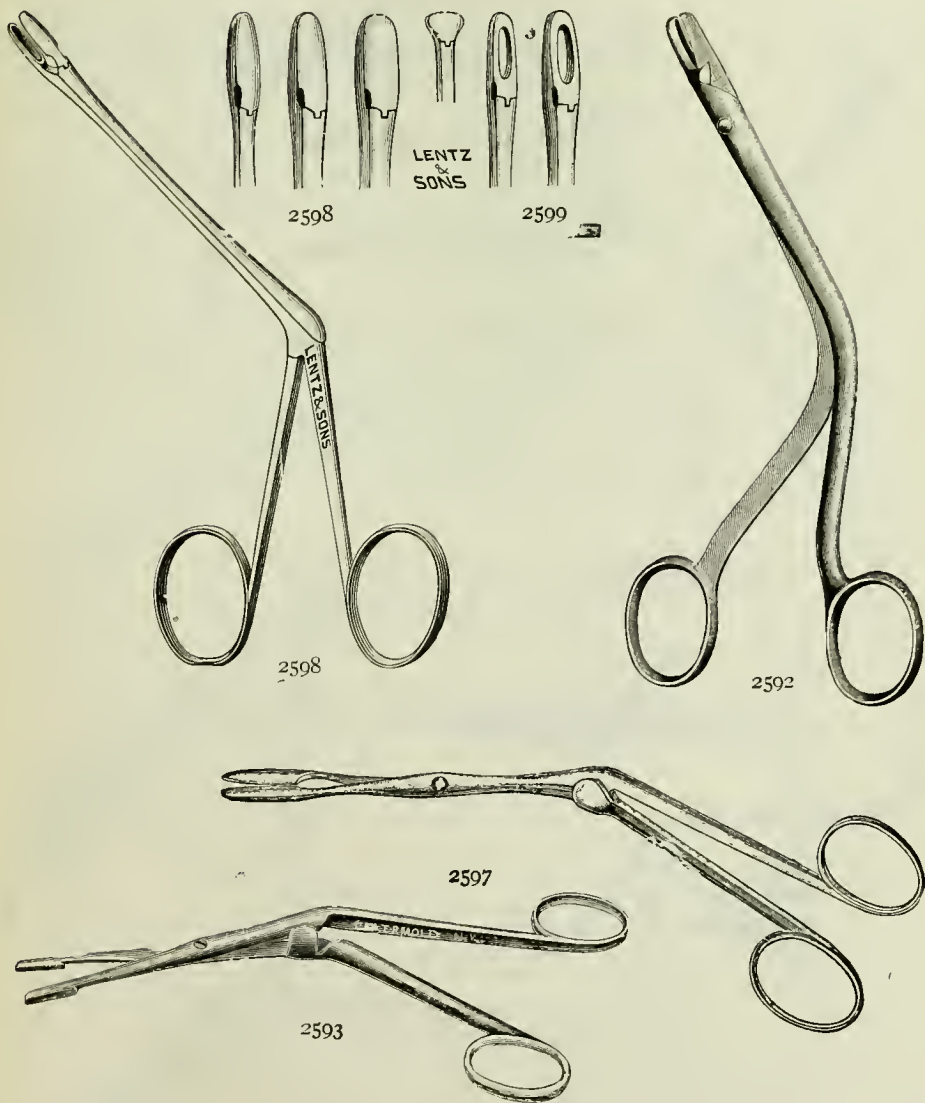


2581.*	Polypus Forceps, Gross'	.....	\$1 50
2582.*	" " Harrison Allen's	..... \$1 75; with catch	2 00
2584.*	" " Hartmann's	..... \$1 50; with catch	1 75
2586.*	" " Knight's	.....	2 00
2587.*	" " Noyes', alligator jaw	.....	3 50
2588.	" " Simrock's	.....	1 75
2589.	" " Museholdz's, long slender blades	.....	2 00
2589a.	" " Berens', very fine points	.....	2 00

All instruments illustrated are designated by a *.

Nasal Instruments.

CUTTING FORCEPS.

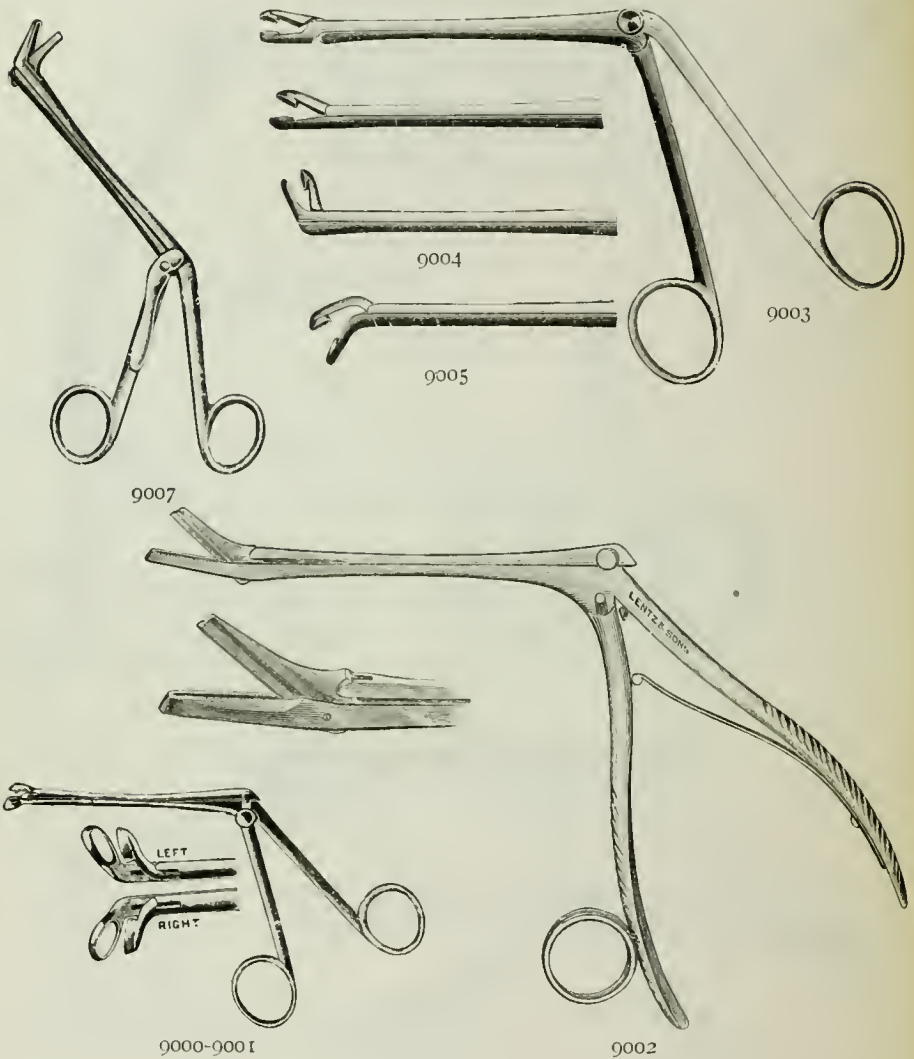


2592.*	Cutting Forceps, Pynchon's, punch form	\$4 00
2593.*	" " Teet's, " "	4 00
2594.*	" " Curtis', " " (see illustration on previous page)	6 00
2595.	" " Watson's mod. Farnham's, punch form	6 50
2596.	" " Myles', three sizes	each 7 00
2597.*	" " Knight's	2 25
2598.*	" " Farnham's, solid blades, four sizes	each 7 50
2599.*	" " " fenestrated blades, two sizes	" 7 50

All instruments illustrated are designated by a *.

Nasal Instruments.

CUTTING FORCEPS.

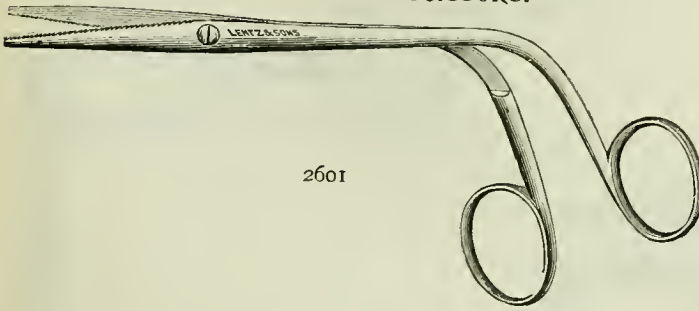


9000.*	Cutting Forceps,	Hartmann-Gruenwald, curved sideways, right and left	each \$8 00
9001.*	"	" Hartmann-Gruenwald, straight, oval; three sizes	" 7 50
9002.*	"	" Gruenwald-Struycken's, straight, long narrow punch	" 8 50
9003.*	"	" Gruenwald's, straight, three size punches	" 7 00
9004.*	"	" " curved upward	" 7 50
9005.*	"	" " downward	" 7 50
9006.*	"	Prince's	" 3 25
9007.*	"	Ethmoid, Roe's	" 6 50
9008.	"	" Myles'	" 7 00
9009.	"	" Dench's	" 6 50

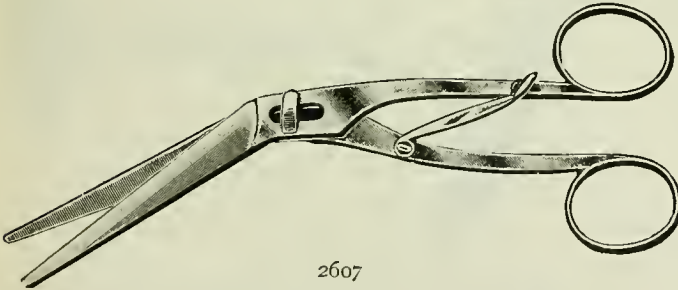
All instruments illustrated are designated by a *.

Nasal Instruments.

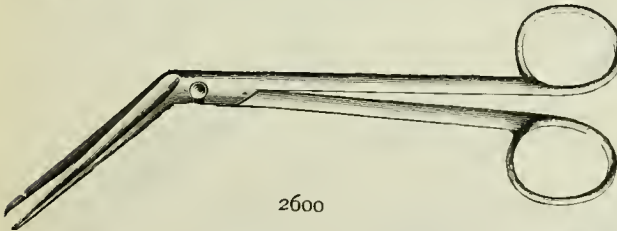
SCISSORS.



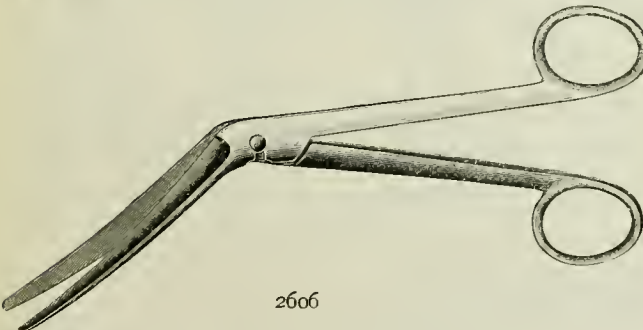
2601



2607



2600



2606



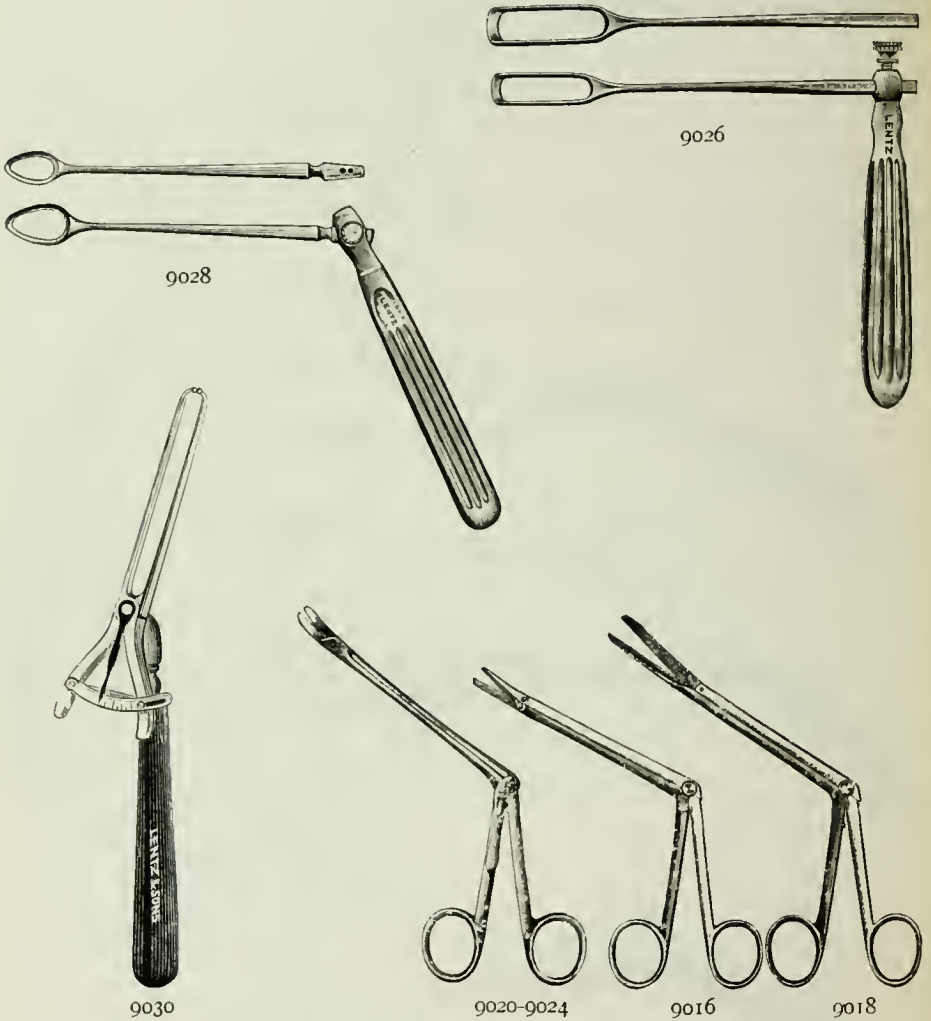
2604

2600.*	Nasal Scissors,	Seiler's	\$2 00
2601.*	"	Potter's, serrated	2 00
2602.	"	Jos. Gibb's mod. Knights, with shank guide	3 00
2603.	"	Sherwell's, serrated, curved to right and left	2 50
2604.*	"	Jackson's	3 50
2605.	"	Casselberry's, serrated	2 50
2606.*	"	Beckmann's, middle turbinate	2 50
2607.*	"	Mueller's	5 25
2607a.	"	Beckmann's, upper turbinate	2 50

*All instruments illustrated are designated by a *.*

Nasal Instruments.

SCISSORS AND KNIVES.

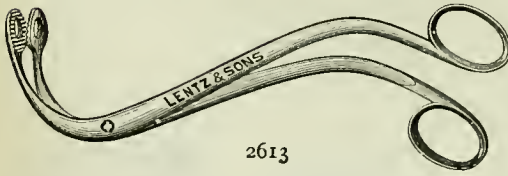


9016.*	Nasal Scissors, Gruenwald's	\$6 50
9018.*	" " Hartmann's	6 50
9020.*	" " Holmes', curved to right	8 25
9022.*	" " " " left	8 25
9024.*	" " " " upward	8 25
9025.	" " " for post-nasal	4 00
9026.*	Spoke Shave, Carmalt-Jones', with two sizes of blades	7 00
9028.*	" " Berens', with two sizes of blades	5 50
9030.*	Septometer, Seiler's	4 50
9031.	Conchotome, Jansen's, jointed	12 00
9032.	" Hartmann's, round	6 50

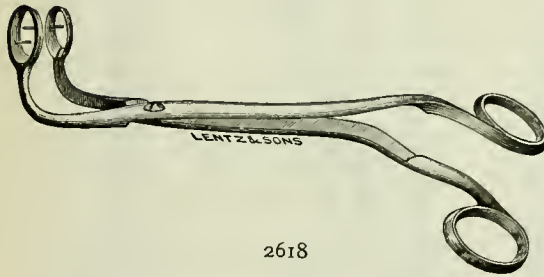
All instruments illustrated are designated by a *

Nasal Instruments.

POST NASAL FORCEPS.



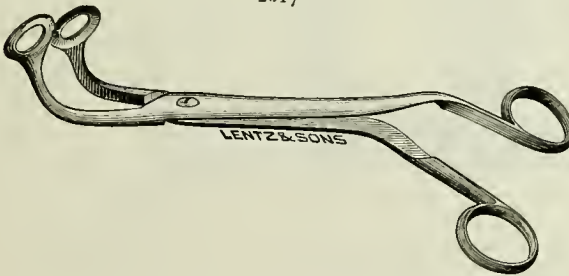
2613



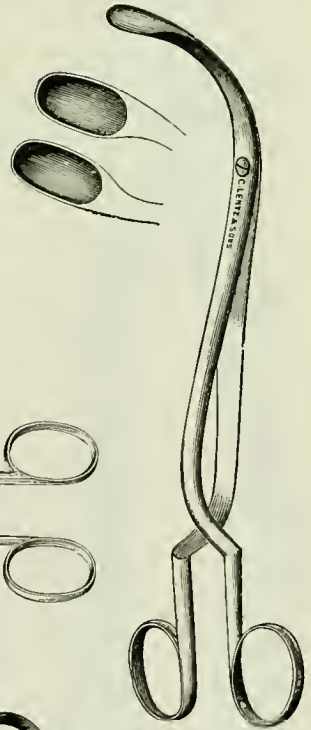
2618



2617



2620



2615

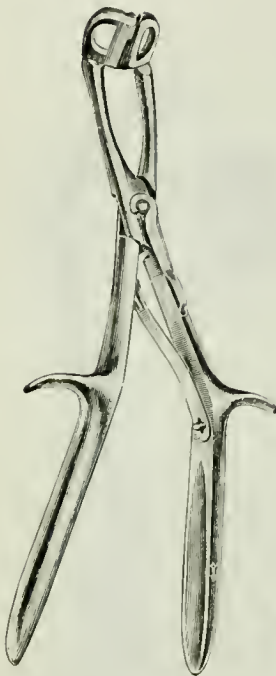
2613.*	Post Nasal Forceps, Cohen's, opening antero-posteriorly	\$3 00
2614.	" " " " Seiler's " " " alligator jaws	4 00
2615.*	" " Cutting Forceps, Cohen's, long	3 00
2616.	" " " " Hooper's, like Cohen's but smaller	2 50
2617.*	" " " " Löwenberg's, fenestrated blades	3 50
2618.*	" " " " Cohen's, punch form	5 00
2619.	" " " " Seiler's, full-curved, opening laterally	3 75
2620.*	" " " " Watson's	4 50

The blades of Watson's Cutting Forceps, which are the important feature of the instrument, are oval in shape, with the long diameter transverse to the shaft, making the upper or cutting-edge $\frac{3}{8}$ inch long. This edge is set at an angle to correspond, when in position, with the slope of the vault of the pharynx. The anterior projection enables the operator to reach the anterior part of the naso-pharynx without having to depress the handles sufficiently to alter the relation of the cutting-edge to the pharyngeal vault. As the blades are fenestrated, they present no obstacle to the forceps taking a large bite and cutting deeply into the tissue.

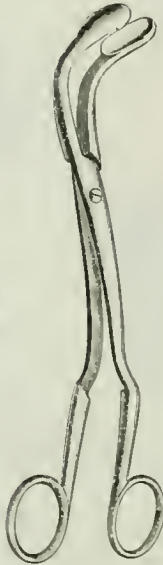
*All instruments illustrated are designated by a *.*

Nasal Instruments.

POST NASAL CUTTING FORCEPS.



2625b



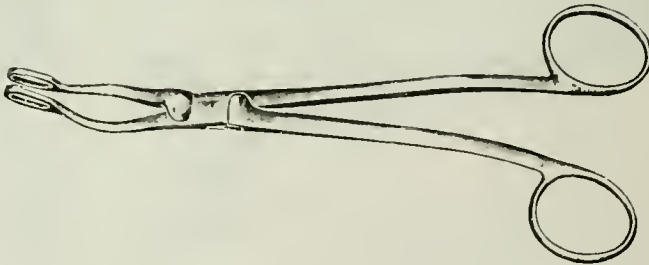
2625c



2623



2622



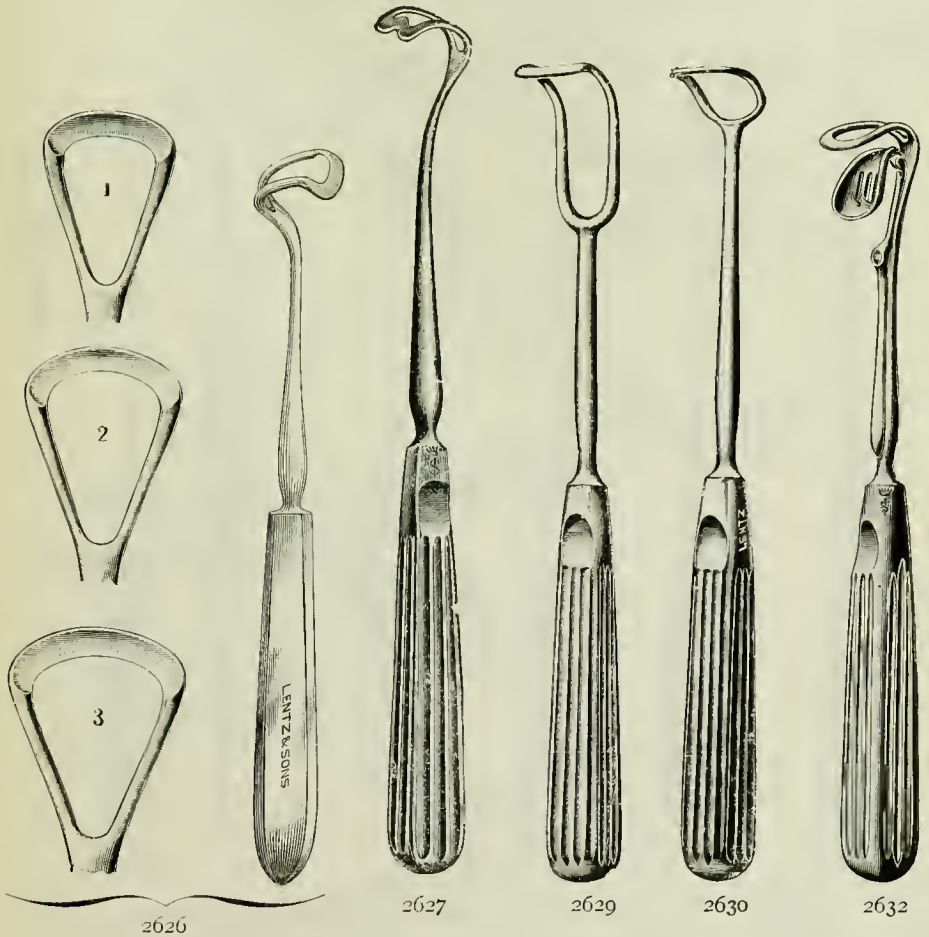
2625a

2621.	Post Nasal Cutting Forceps,	Hodge's	\$4 25
2622.*	" " " "	Quinlan's	3 50
2623.*	" " " "	Jurasz's, three sizes	each 4 00
2624.	" " " "	Brandegee's	5 50
2624a.	" " " "	" improved	6 50
2625a.*	" " " "	St. Clair Thompson's	5 00
2625b.*	" " " "	McAuliffe's	8 00
2625c.*	" " " "	Prince's	3 50
2625d.	" " " "	French's	3 50

"Our factory is equipped to repair, sharpen, polish and nickel plate your instruments in the best of manner and at shortest notice. For approximate costs of repair work, see page following index."

Nasal Instruments.

CURETTES AND ADENOID RING KNIVES.



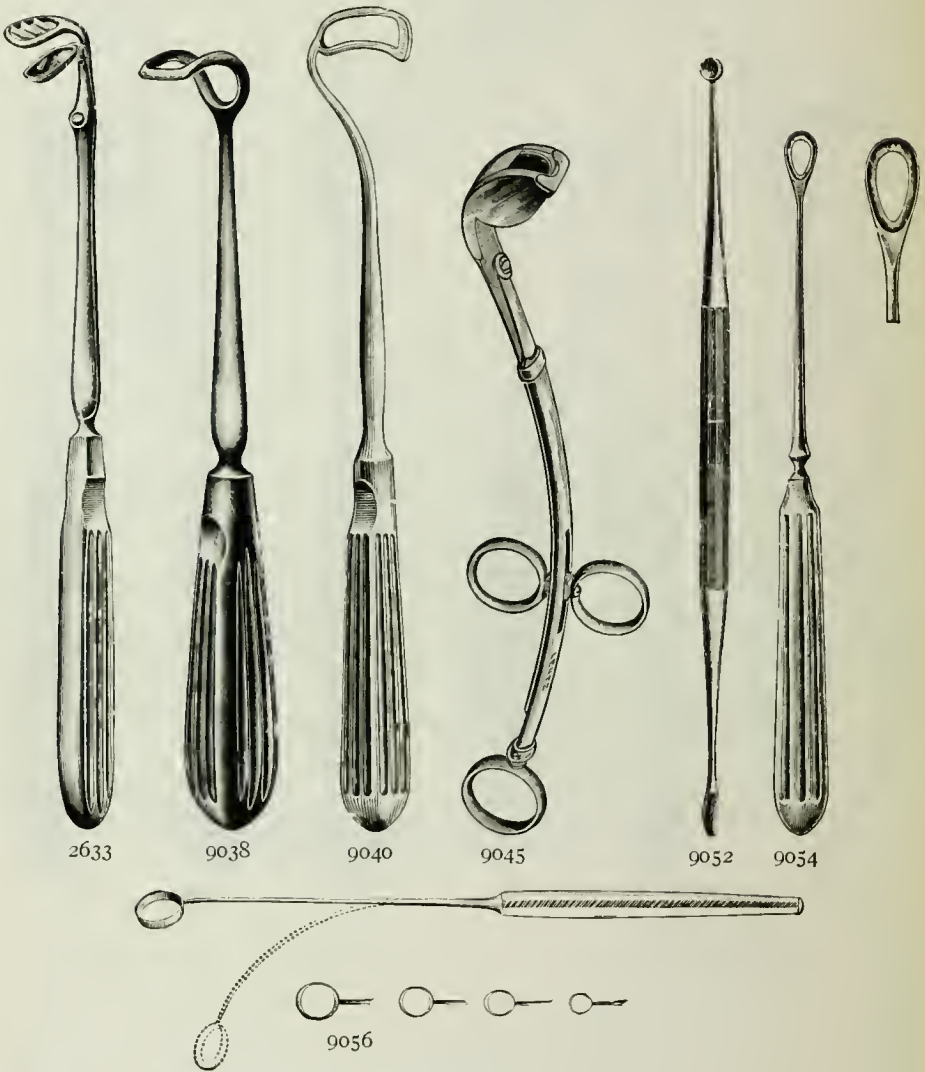
2625.	Adenoid Curette,	Gottstein's, half curved, three sizes . . .	each \$2 00
2626.*	"	" full " " " . . .	" 2 00
2627.*	"	Munger's, curved, one size	3 00
2628.	"	Makuen's, one size	3 25
2629.*	"	Kirstein's, three sizes	each 2 00
2630.*	"	Beckmann's, four sizes	" 2 50
2631.	"	Macdonald's, two "	" 5 50
2632.*	"	Delstanche's, original . . . . .	. . 4 50
2633.*	"	" improved (see page 218)	. 5 00

All instruments illustrated are designated by a *

"Our own well-equipped factory is at your command for the production of any special instrument which you desire made. Our mechanics are experts in their various specialties. Our charges are as moderate as consistent with first-class work."

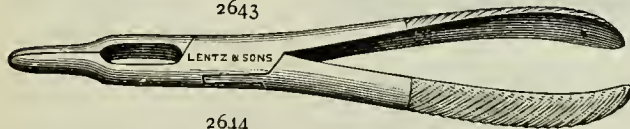
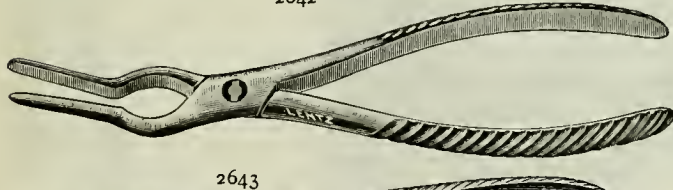
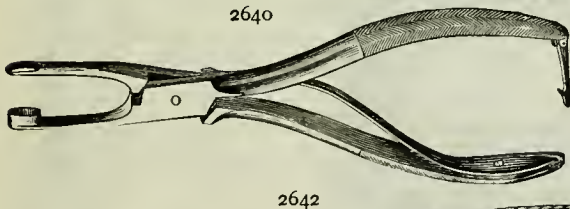
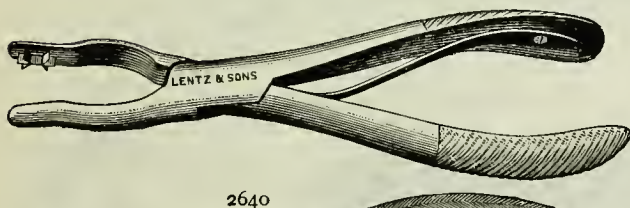
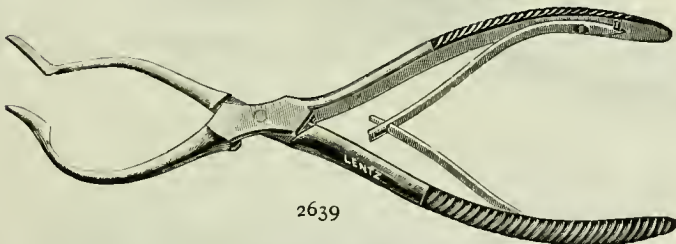
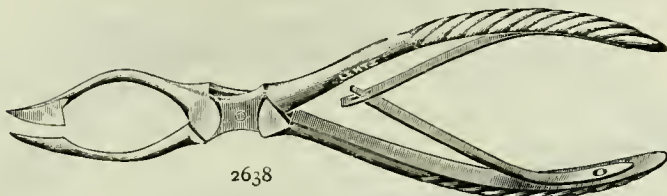
Nasal Instruments.

CURETTES AND ADENOID RING KNIVES.



9038.*	Adenoid Curette, Barnhill's, four sizes	each \$2 50
9040.*	“ “ De Roaldes', three sizes	“ 2 50
9041.	“ “ Stubbs', three sizes	“ 3 00
9042.	“ “ Ralph Seiss', light, one size	2 00
9044.	Adenotome, Schuetz's, with one extra blade	12 00
9045.*	“ La Force's, two sizes	each 10 00
9046.	“ Gradle's, with three blades	12 00
9050.	Nasal Curette, Boecker's, three sizes of spoons	each 1 75
9052.*	“ “ Schaeffer's, double ended spoon	1 25
9054.*	“ “ Kyle's	1 75
9056.*	“ “ Myles', pliable shank, five sizes	each 1 50
9058.	“ “ Moure's, sharp	3 00

Nasal Instruments.
SCISSORS, COMPRESSING FORCEPS, ETC.

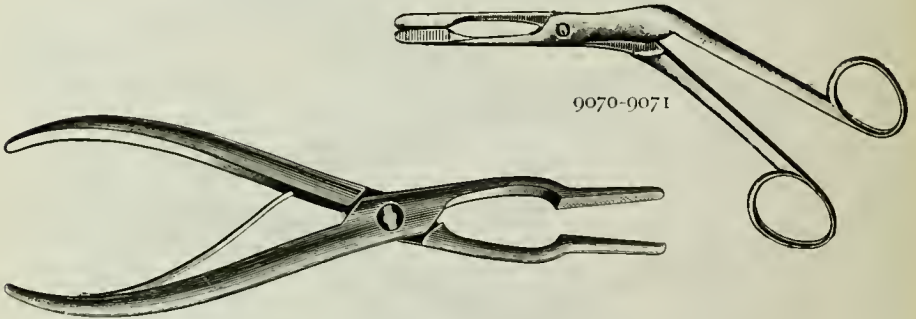


2638.*	Septum Cutting Scissors, Asch's, straight, aseptic	\$3 50
2639.*	" " " " angular,	4 00
2640.*	" Punching Forceps, Steele's,	4 50
2641.	" " " " Sajous', with five different shape punches	12 00
2642.*	" " " " Roberts'	4 50
2643.*	" Compressing Forceps, Asch's	2 75
2644.*	" " " " Adams'	2 75
2645.*	" " " " Kyle's	3 00
2646.	" " " " Bosworth's	2 50
2647.	" Gouge, Asch's, for breaking up adhesions,	1 25
2648.	" Elevator, Asch's, for adjusting the flaps of the incision	1 00
2649.	" Set, Asch's, consisting of straight and angular scissors, compressing forceps, gouge, elevator, and set of six hard rubber perforated splints, in fine leather case	16 50

*All instruments illustrated are designated by a **

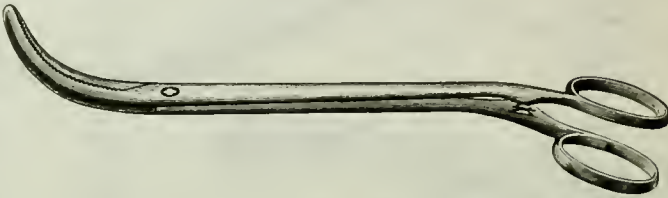
Nasal Instruments.

COMPRESSING AND APPLICATING FORCEPS, PARAFFIN SYRINGES.

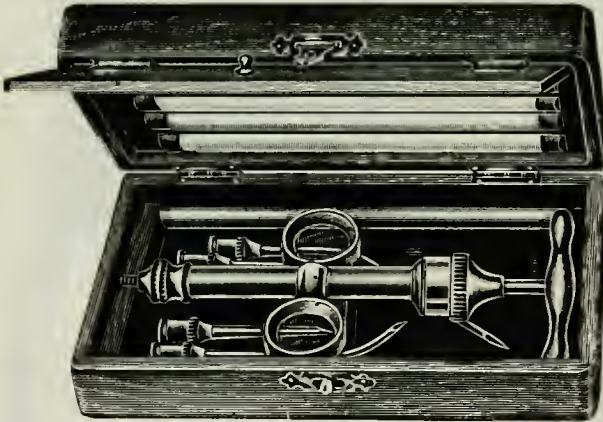


9070-9071

9073



9076



9086

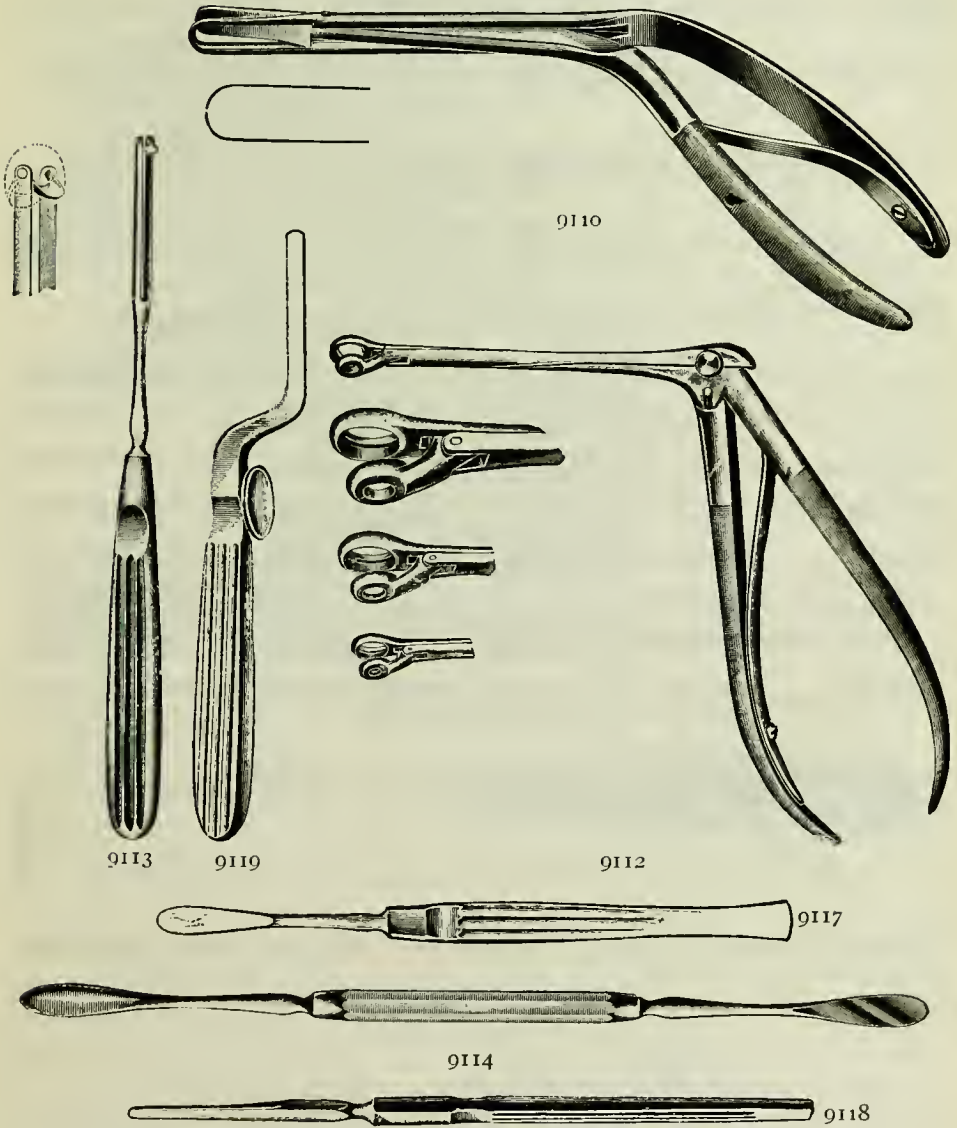


9075

9070.*	Septum Compressing Forceps, Killian's, small	..	..	\$3 25
9071.*	" " " " large	..	..	3 50
9073.*	" " " A. W. Watson's	..	..	3 00
9075.*	Nasal Dilator, Sinexon's, with set screw	..	..	3 00
9076.*	Cotton Holding Forceps, Isaac G. Shallcross'	..	..	2 25
9077.	" " " Stille's	..	..	1 85
9078.	" " " self-retaining (see page 240)	..	..	3 00
9079.	" " " Philip Marvel's (see page 240)	..	..	2 25
9085.	Paraffin Syringe, Broeckaert's, for the injection of cold paraffin; complete with six tubes of paraffin, in case	..	..	18 00
9086.*	" " Onide's, for the injection of cold paraffin, in case	..	..	10 50
9087.	" " Harmon Smith's, all metal, for soluble paraffin, in metal case	..	..	3 50

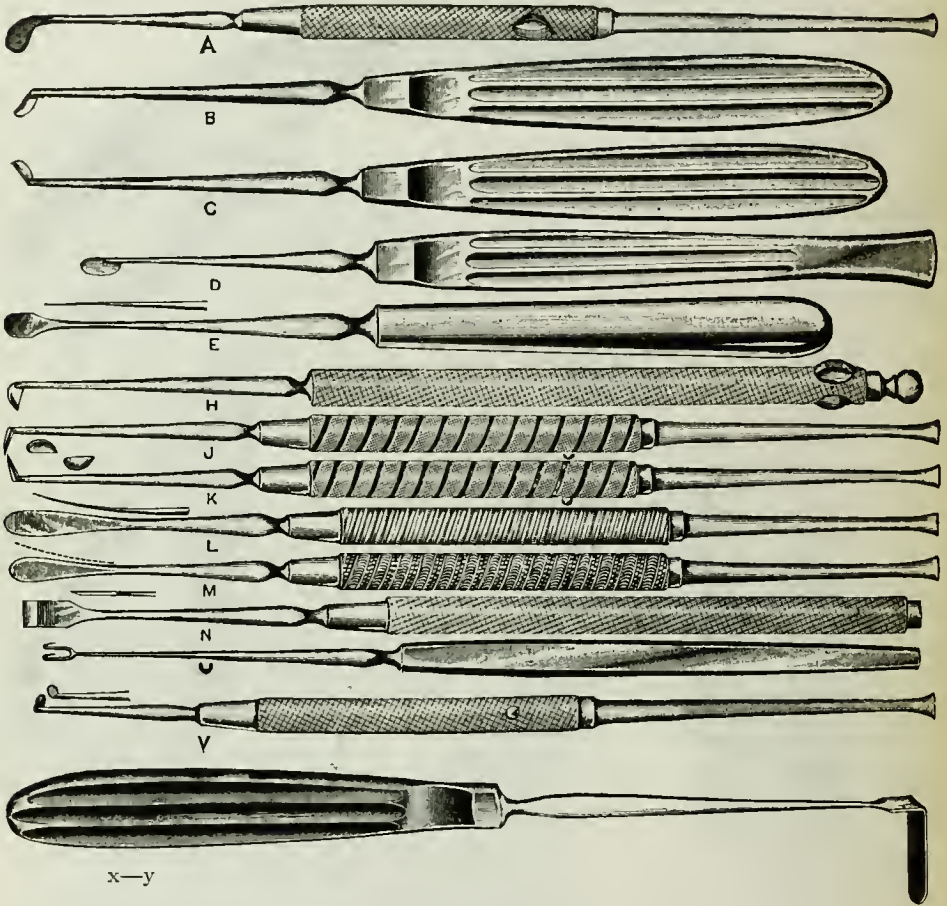
Nasal Instruments.

SEPTUM PUNCHES, ELEVATORS, &c.



- | | | |
|--------|---|-------------|
| 9110.* | Septum Punch Forceps, Foerster-Ballenger's, two sizes | each \$8 00 |
| 9112.* | " " Freer-Gruenwald's, three " | " 8 50 |
| 9113.* | " Knife, swivel, Ballenger's, two sizes | " 2 75 |
| 9113a. | " " for turbinectomy | " 3 25 |
| 9114.* | " Elevator, Ballenger-Hajek's, double ended | " 1 50 |
| 9115. | " Dissector, Goldstein's, sharp and blunt | " 1 50 |
| 9116. | " " Pierce's, sharp and blunt, double ended | " 1 75 |
| 9117.* | " Elevator, Hajek's, semi-sharp and blunt | " 1 50 |
| 9118.* | " " Killian's, sharp and blunt | " 1 25 |
| 9119.* | " " " bayonet shaped, with finger rest | " 1 75 |
| 9120. | Turbinotomy Knife, Sluder's, right and left blade | " 2 25 |
| 9121. | Submucous Gauze Packer, Beck's | " 1 25 |
| 9122. | Turbinate Chisel, Ballenger's, cutting backward | " 2 00 |

Nasal Instruments.
FOR RESECTION OF THE SEPTUM.



Freer's Instruments for Resection of the Nasal Septum.

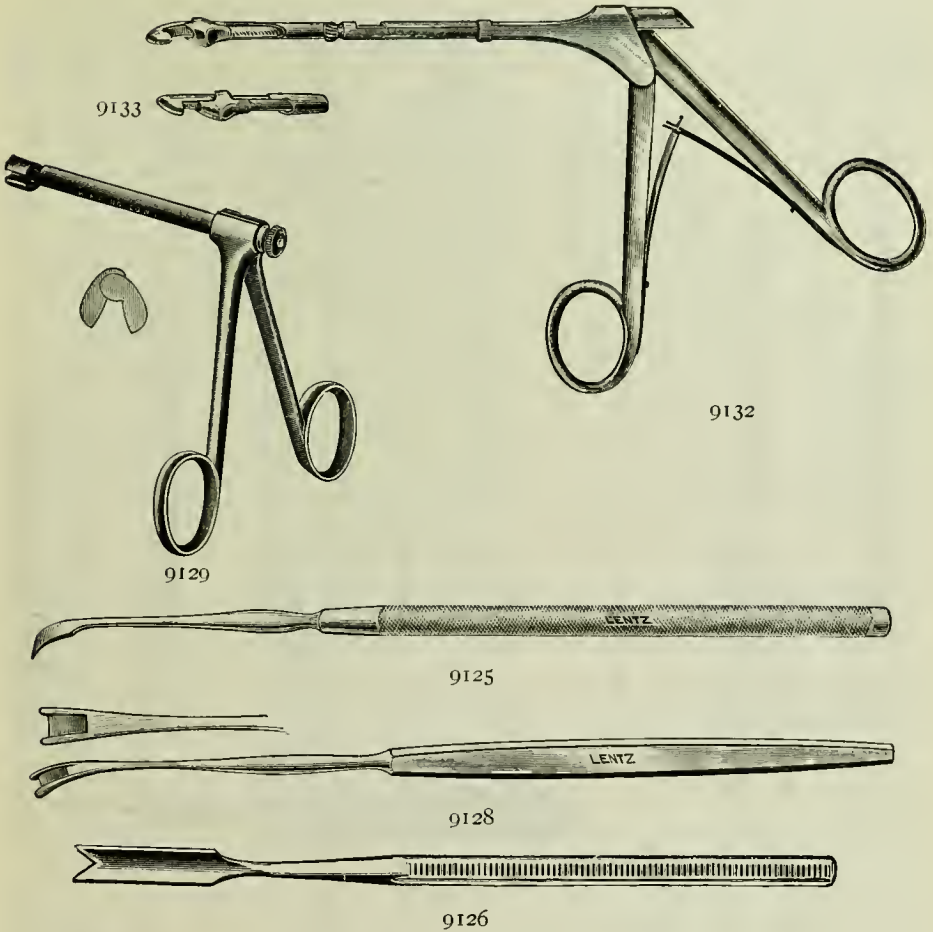
9120

a.*	Freer's Dissecting Knife, bent on edge, round blade	\$1 50
b.*	" Cartilage " right	1 50
c.*	" Cartilage " left	1 50
d.*	" Knife, for vertical incision in mucous membrane	1 50
e.*	" " flat, round blade, for dissecting	1 25
h.*	" " sub-mucous cartilage	1 50
j-k.*	" " sharp pointed, angular, right and left	each 1 50
l.*	" Elevator, sharp	1 25
m.*	" " blunt	1 25
n.*	" Chisel, sharp	1 25
u.*	" Double Hook	1 25
v.*	" Hoe-shaped Separator	1 50
w.*	" Gouge, sharp, two widths	each 1 25
x.*	" Retractor, three widths, 4 mm., 6 mm. and 8 mm.	each 1 25
y.*	" " extra long	1 50

*All instruments illustrated are designated by a *.*

Nasal Instruments.

FOR RESECTION OF THE SEPTUM.

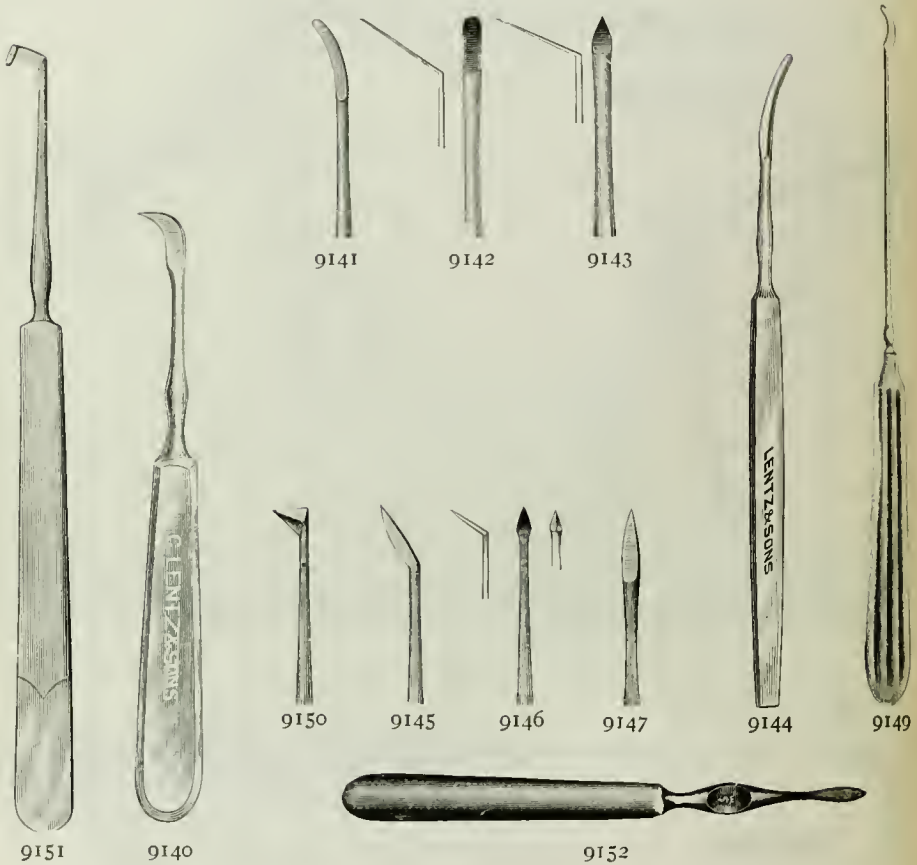


9123.	Resection Set, Killian's, six instruments with one handle . . .	\$6 75
9124.	Guard, Killian's, for chisels and gouges	1 50
9125.*	Periosteal Elevator, Freer's, sharp edge, curved	1 25
9126.*	Gouge, Ballenger's, for removing septal ridges	1 10
9127.	" Killian's, bayonet shaped, for removing anterior vomer triangle	1 50
9128.*	Turbinate Chisel, Andrews'	1 75
9129.*	Septum Bone Cutting Forceps, Hurd's, adjustable	8 50
9130.	" " " " MacCoy's, straight	5 00
9131.	" " " " " " curved	5 00
9132.*	Antrum or Sphenoid Punch Forceps, Spies', curved, reversible	17 50
9133.*	" " " " " " Noebel-Cordes', straight, revers.	16 50
9134.	" " " " " " Ostrom's, reversible	14 00
9135.	Ethmoid-Turbinate Knife, Ballenger's, right and left each	2 75
9136.	Turbinate Knife, Ballenger's, right and left	" 2 50
9137.	Exostosis " Ballenger-Killian's	" 2 25

*All instruments illustrated are designated by a *.*

Nasal Instruments.

SEPTUM KNIVES.



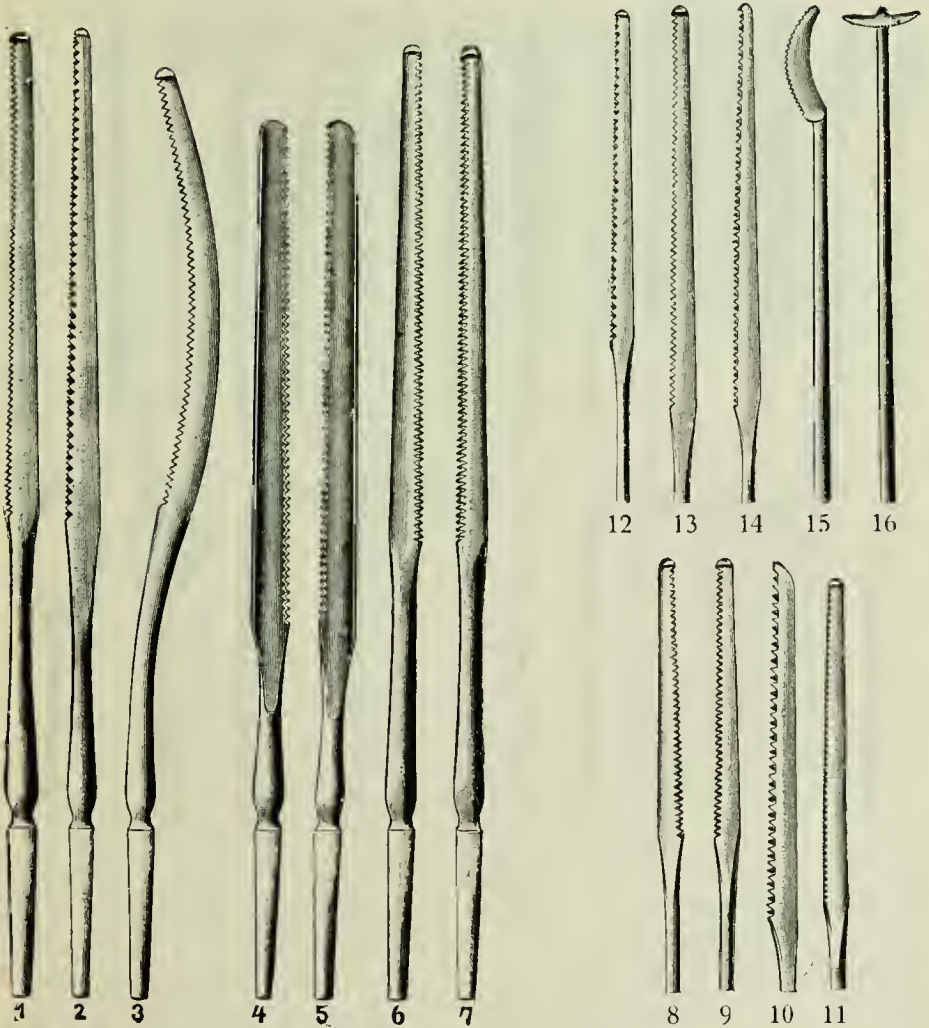
9140.*	Septum Knife, Allen's	\$1 25
9141.*	" " Heymann's	1 50
9142.*	" " Hajek's, right and left	each 1 50
9143.*	" " " double edge	1 50
9144.*	" " Seiler's, " curved on flat	1 25
9145.*	" " Watson's, angular	1 35
9146.*	" " " double edge	1 65
9147.*	" " " straight	1 25
9148.	" " Asch's	1 00
9149.*	" " Kyle's	1 25
9150.*	" " Douglass', spear point	1 50
9151.*	" " " hook shaped	1 75
9152.*	" " Ballenger's	1 25
9153.	" " Chappell's	1 50

*All instruments illustrated are designated by a **

"The name LENTZ on any instrument is to you a guarantee of superior quality and absolute reliability."

Nasal Instruments.

NASAL SAWS.

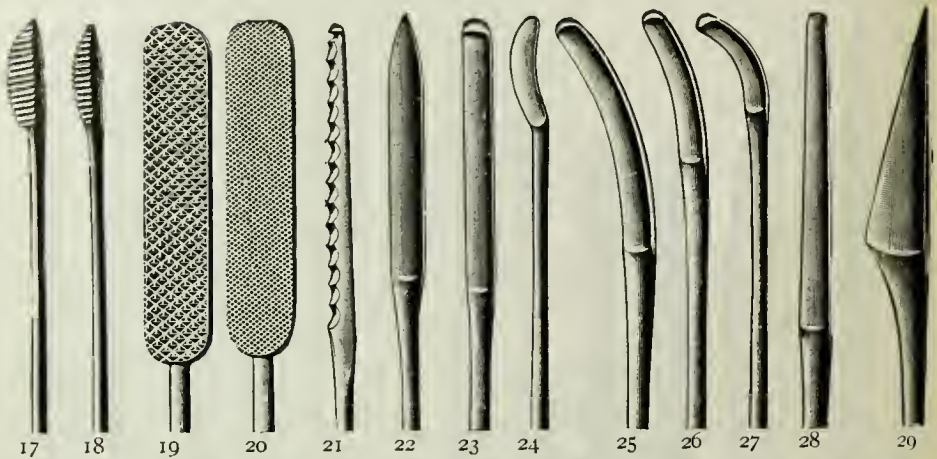


1.*	Nasal Saw,	Bosworth's, plain	\$o 75
2.*	"	Curtis', cross-cut teeth	75
3.*	"	Casselberry's	90
4.*	"	Pynchon's, concave blade, L.	I 00
5.*	"	" " " R.	I 00
6.*	"	McAuliffe's, beveled edge, L.	I 00
7.*	"	" " " R.	I 00
8.*	"	Hall's, beveled edge, L.	I 00
9.*	"	" " " R.	I 00
10.*	"	Sajous', beveled edge	90
11.*	"	Holmes', beveled edge, thin blade, back cutting.	I 00
12.*	"	" " " straight	I 00
14.*	"	DeVilbiss', beveled edge, eccentric teeth	I 00
15.*	"	Kyle's, beveled edge, vertical teeth	I 00
16.*	"	" " " horizontal teeth	I 00

All instruments illustrated are designated by a *.

Nasal Instruments.

NASAL RASPS, SAWS, KNIVES, ETC.



17 18 19 20 21 22 23 24 25 26 27 28 29



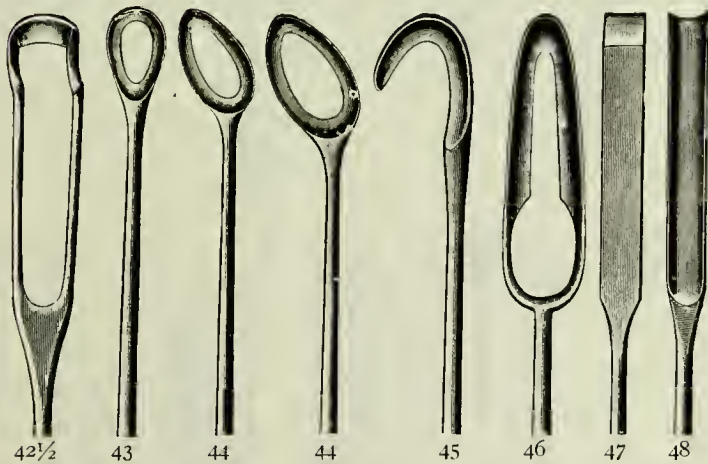
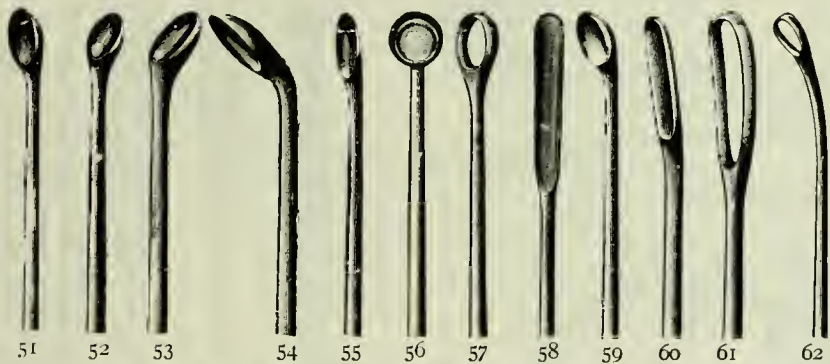
30 31 32 33 34 35 36 37 38 40 41 42

17.*	Septum Saw File, Fetterolf's, large	\$1 10
18.*	" " " " small	1 10
19.*	Nasal Rasp, plain	1 35
20.*	" File, "	1 35
21.*	Wave Knife, Fuld's	1 25
22.*	Septum Knife, straight, sharp point	1 00
23.*	" " " blunt "	1 00
24.*	" " Kyle's	1 00
25.*	" " " long slight curved	1 10
26.*	" " Barnes', slightly curved	1 00
27.*	" " " full curved	1 10
28.*	" " Bishop's	1 10
29.*	" " Ingals'	1 10
30.*	" " Seiler's	1 25
31.*	" " Douglass'	1 25
32.*	" " Allen's	1 00
33.*	" " Hajek's, double edge	1 00
34.*	" " Gruenwald's	1 00
35.*	" " Douglass', pear shape	1 15
36.*	" " Ingals', submucous	1 10
37.*	" Spud	75
38.*	" Elevator	75
40.*	Exostosis Knife, Killian's	1 10
41-42.*	Spoke Shave, Berens', two sizes	1 75

All instruments illustrated are designated by a *

Nasal Instruments.

CURETTES, CHISELS, GOUGES, ETC.

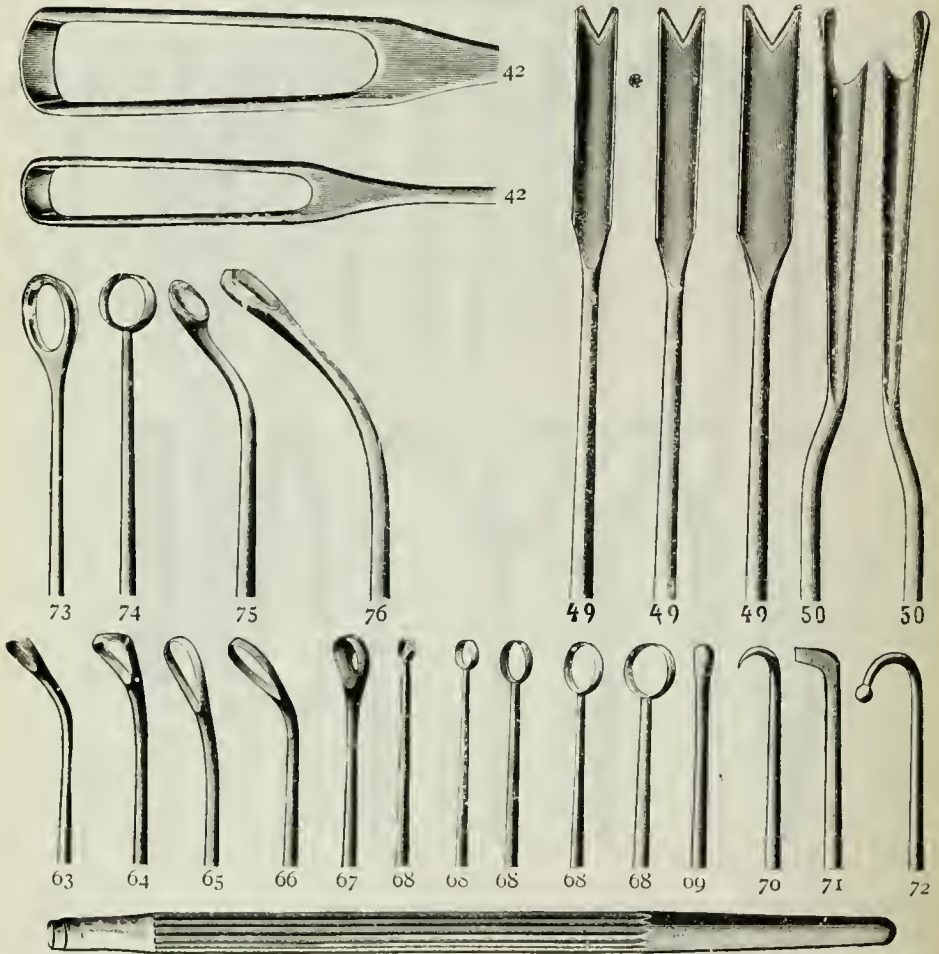


42½.*	Spoke Shave, Nichols', bayonet shape	\$2 25
43.*	" " plain, oval	1 75
44.*	" " Freer's, two sizes	2 00
45.*	" " Major's, " "	1 75
46.*	" " Moure's, " "	2 50
47.*	Nasal Chisel, plain	75
48.*	" Gouge, "	75
51.*	Curette, Gruenwald's straight, sharp	1 25
52.*	" " curved up, sharp, small	1 35
53.*	" " " " large	1 35
54.*	" " " " down, sharp	1 35
55.*	" Schaeffer's, oval	1 00
56.*	" " round	1 00
57.*	" Bryant's ethmoid	1 10
58.*	Gouge " "	75
59.*	Curette, Hajek's, oval, sharp	1 25
60.*	Spoon " long, sharp	1 25
61.*	" " " fenestrated	1 50
62.*	Curette, Coakley's antrum, small, curved shank	1 15

*All instruments illustrated are designated by a **

Nasal Instruments.

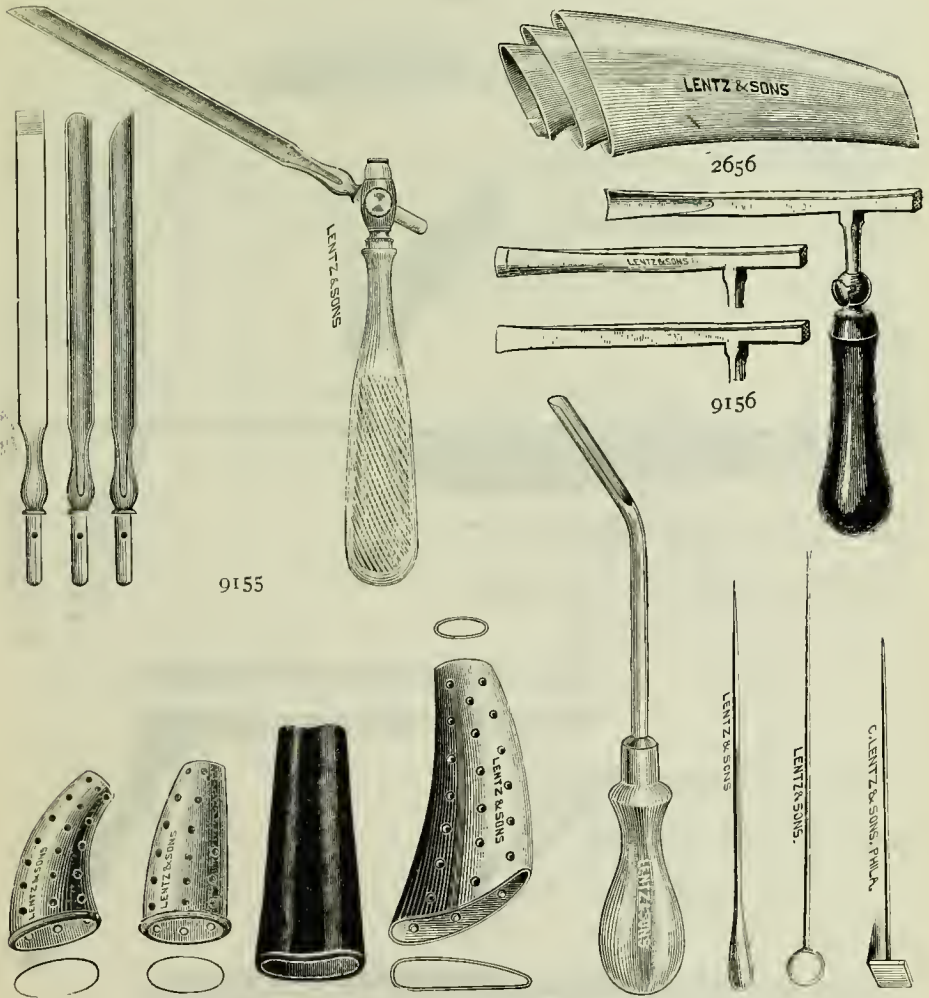
CURETTES, GOUGES, SPOKE SHAVES, ETC.



42.*	Spoke Shave, Nichols', two sizes	each	\$2 00
49.*	Nasal Gouge, Hajek's, three sizes	"	1 00
50.*	Plough Gouge, right and left	"	1 50
63.*	Curette, Coakley's antrum, angular	"	1 15
64.*	" " " triangular	"	1 15
65.*	" " " large, curved shank	"	1 15
66.*	" " " angular	"	1 15
67.*	" Delatour's sinus	"	1 00
68.*	" Myles' antrum, flexible shank, five sizes	each	1 00
69.*	Nasal Probe, Gruenwald's	"	50
70.*	" Hook, Hajek's, sharp	"	60
71.*	" " " flat point	"	65
72.*	Post Nasal Hook, Lange's	"	75
73.*	Nasal Curette, Kyle's, blunt	"	1 00
74.*	Curette, sharp, round, fenestrated	"	1 10
75.*	Post Nasal Curette, Kafemann's, flexible shank	"	1 50
76.*	" " " Gruenwald's	"	1 35
77.*	Large Size Universal Handle, with set screw (see page 254c)	each	1 25
78.*	Small Size Plain Handle, with set screw (see page 254c)	"	75
79.*	" " " slip socket, holds securely	"	35

Nasal Instruments.

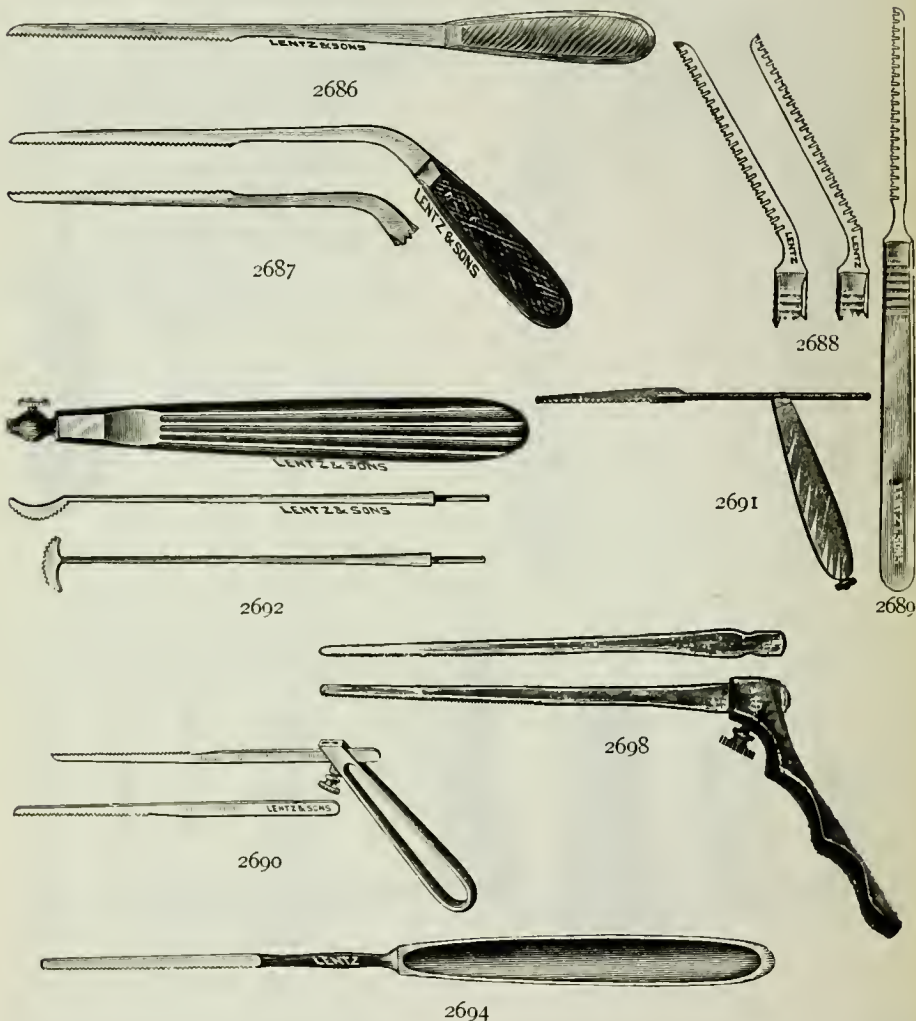
CHISELS, GOUGES, SPLINTS, PINS.



9155.*	Nasal Chisel and Gouges, Seiler's, set of four with one handle	\$6 50
9156.*	" " Hartmann's, set of three "	5 00
9157.	" " Heymann's, three sizes	each 1 50
9158.*	" Gouge, Seiss', one size	2 00
9159.	" Hajek's V-shaped edge, set of three with one handle	7 50
2651.*	Septum Splints, Asch's, hard rubber, 5 sizes . . . per set,	\$1 75; each 40
2652.	" Mayer's, " 6 " " " \$2 00; " "	40
2653.*	" McKernon's, hard rubber, 4 sizes " " \$2 00; " "	60
2650.*	" Douglass', " 3 " " " \$2 25; " "	75
2654.*	" Kyle's, original, malleable metal, 5 sizes, per set,	\$2 00; " 40
2655.	" " " modified " " 5 sizes, per set,	\$2 00; " 50
2656.*	" " Gleason's, malleable metal, 3 sizes, per set,	\$2 00; each 75
2658.	" Tampons, Simpson's, compressed cotton, pkg. of 4 dozen . . .	1 00
2660.*	" Pins, Roberts', flat head, 1½ to 2½ inch	each 25
2661.*	" " Gibb's, round head, 2 to 2¾ inch	35
2662.*	" " Watson's, ring head, 1¾ to 2¼ inch	" 20

Nasal Instruments.

SAWS.

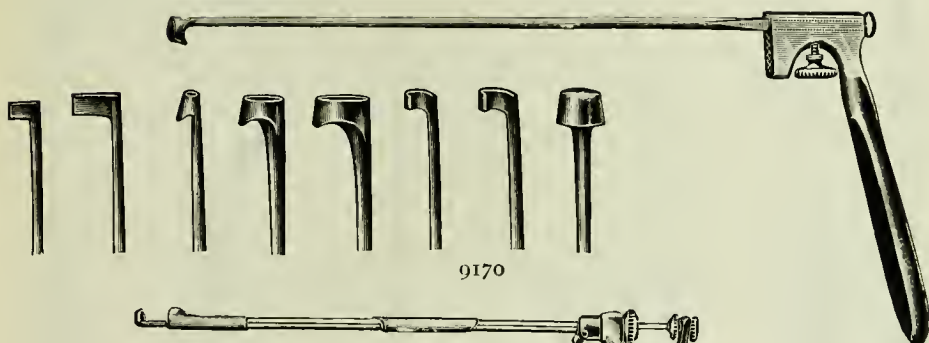


2686.*	Nasal Saw, Bosworth's, straight, hollow metal handle	\$1 25
2687.*	" " " angular, upward and downward, metal handle, each	1 35
2688.*	" " Sajous', " " " " " " " " " " " "	1 35
2689.*	" " " straight	1 25
2690.*	" " Bucklin's, reversible, two blades	2 50
2691.*	" " De Vilbiss', " one blade	1 50
2692.*	" " Kyle's, two blades, straight and rectangular	3 50
2693.	" " Stout's, bayonet shaped	2 00
2694.*	" " Curtis', straight	1 40
2698.*	" " McAuliffe's, reversible, two blades, improved	2 50
2699.	" Rasp, Fetterolf's, blunt and sharp, three sizes each	1 50

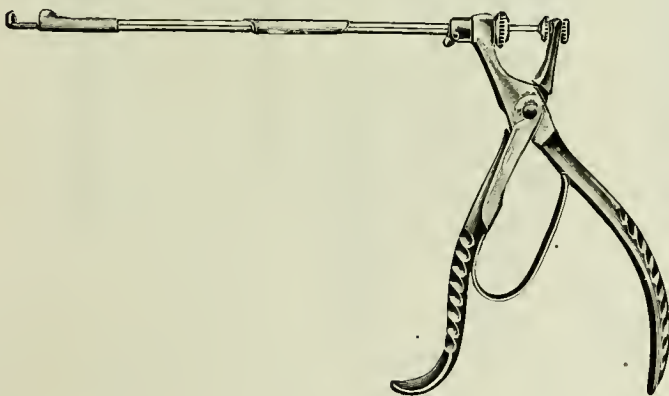
All instruments illustrated are designated by a *.

Nasal Instruments.

SPHENOID AND ETHMOID.



9170



9171



9176



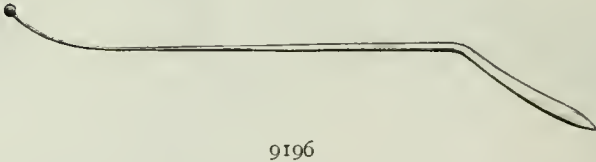
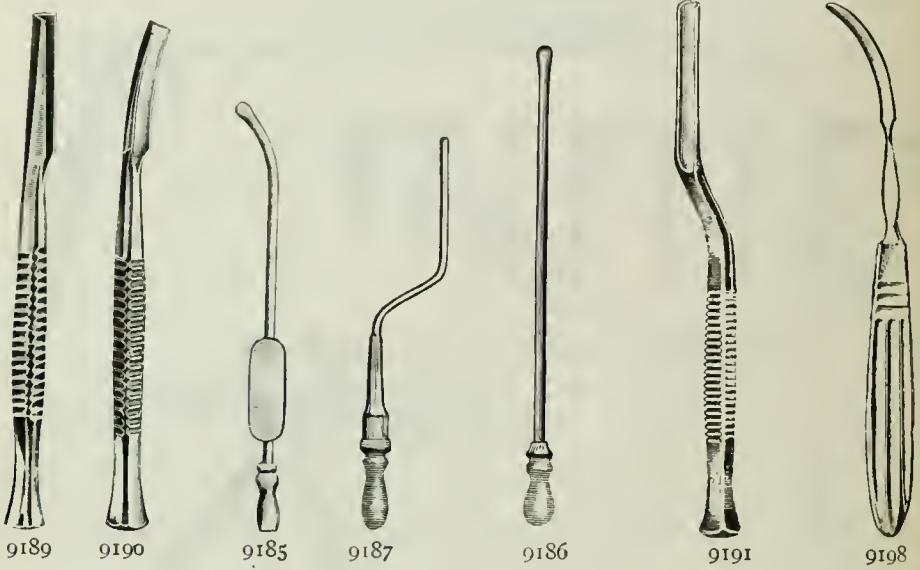
9177

9170.*	Sphenoid	Chisels, Myles', set of ten instruments, complete	\$22 00
9171.*	"	and Ethmoid Punch, Hajek-Schmithuisen's, reversible	10 50
9172.	"	Punch, Skillern's, mod. Hajek's	10 00
9173.	"	" Hurd's, adjustable to right or left (see page 223)	8 50
9174.	"	Gouge, Butler's	5 00
9175.	Sphenoidal	Evulsor, Skillern's	4 00
9176.*	Sphenoid	Probe, Andrews', for exploring cavities	40
9177.*	"	Canula, " treating "	1 25
9178.	"	Knives, "	2 25
9179.	"	Probe, Horner's	1 25
9180.	Ethmoid	Clipper, Myles'	7 00
9181.	"	" Roe's	6 50
9182.	"	" Dench's	6 50
9183.	"	Gouge and Curette, Bryan's, double end	2 25

All instruments illustrated are designated by a *

Nasal Instruments.

ANTRUM AND FRONTAL SINUS CANULAS, PROBES AND CHISELS.



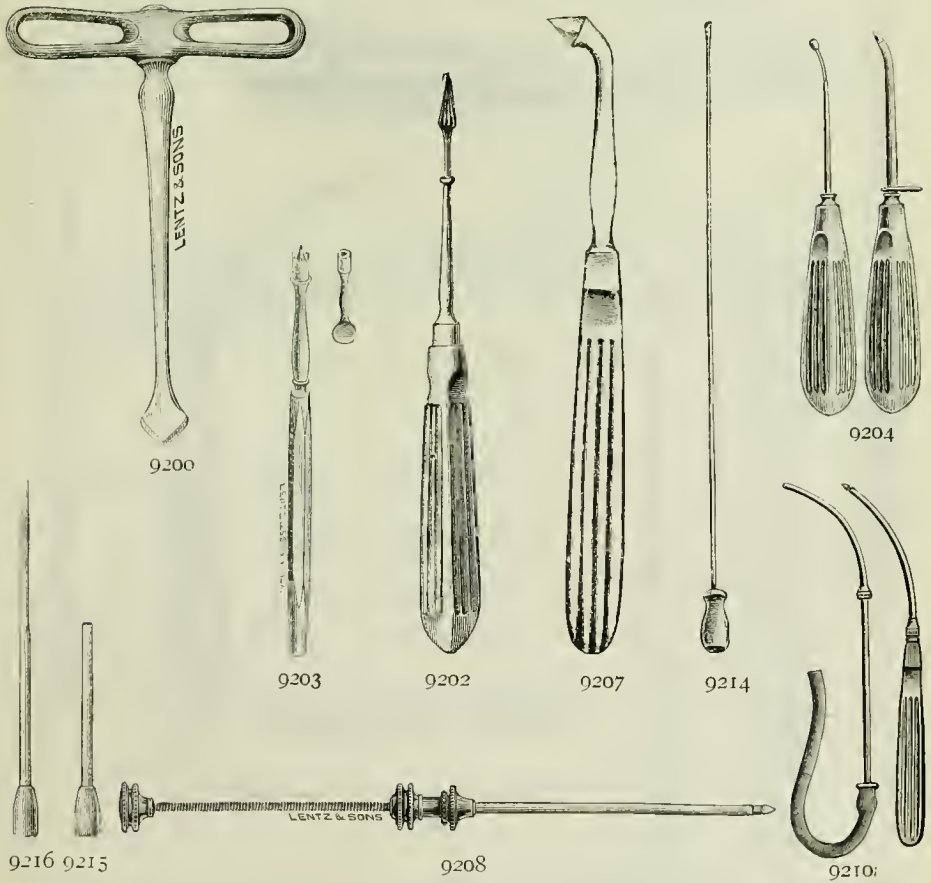
9185.*	Antrum Canula, Eiken's	\$1 00
9186.*	“ “ Killian's	75
9187.*	“ “ Moritz Schmidt's	1 25
9189.*	Frontal Sinus Chisel, Killian's, V shaped, two sizes	each 1 50
9190.*	“ “ “ Killian-Reinhardt's, V shaped, curved	1 50
9191.*	“ “ “ Killian's, bayonet shape	1 50
9192.	“ “ Canula, Myles', silver, flexible	1 00
9193.	“ “ “ Skillern's, silver, with tubing connection	1 25
9194.	“ “ “ Killian's, silver, flexible	1 00
9195.	“ “ Probe	1 00
9196.*	“ “ “ Killian's, silver, flexible	1 25
9197.	“ “ “ Skillern's, silver, flexible	75
9198.*	Nasal Chisel Guard, Killian's	1 50
9199.	Antrum Probe, Killian's, plated, right and left	each 75

All instruments illustrated are designated by a *.

“Our own well-equipped factory is at your command for the production of any special instrument which you desire made. Our mechanics are experts in their various specialties. Our charges are as moderate as consistent with first-class work.”

Nasal Instruments.

ANTRUM DRILLS, TROCARS AND WASH TUBES.

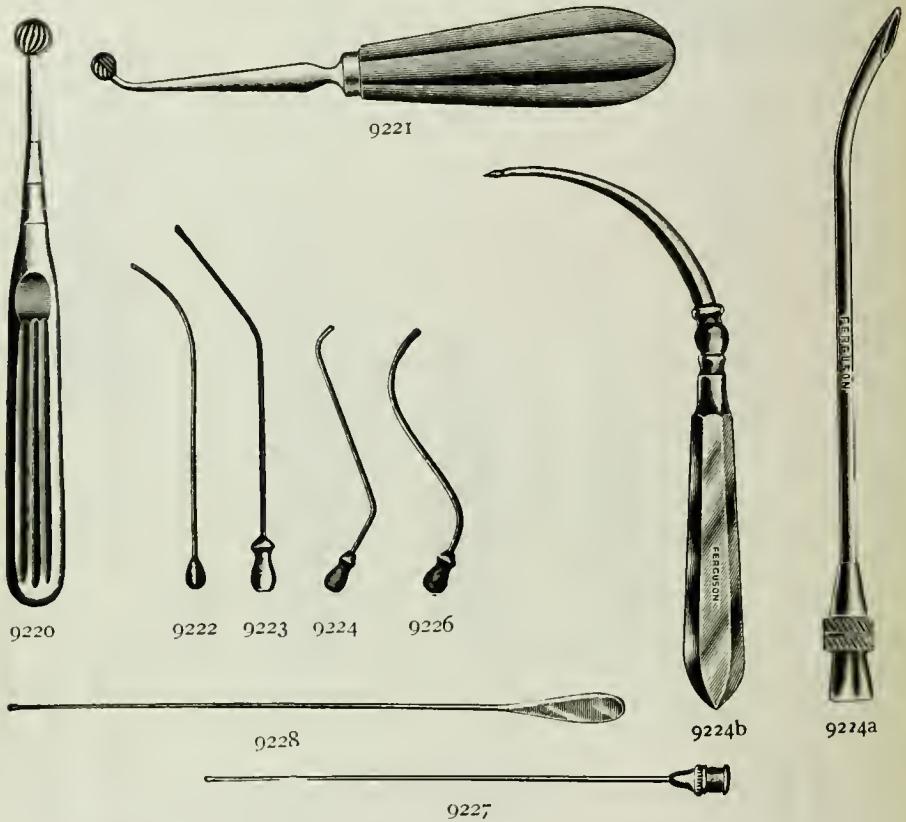


9200.*	Antrum Drill, Freeman's	\$1 75
9202.*	“ “ Hartmann's, three sizes	each 1 50
9203.*	“ “ Pope's, centering pin removable for cleaning	2 50
9204.*	“ Trocar, Von Halle's, with obturator	3 00
9205.	“ “ Jos. S. Gibb's, modif. Jurasz's	2 50
9206.	“ “ Douglass'	1 50
9207.*	“ “ Mikulicz's	1 75
9208.*	“ “ Freeman's	1 75
9210.*	“ “ Myles', with wash tube	2 00
9212.	“ “ “ improved	2 50
9214.*	“ Wash Tube, Myles', flexible, silver	1 00
9215.*	“ “ “ Freeman's, silver	1 25
9216.*	“ Drainage Tube, Freeman's, silver, three lengths	each 1 00
9218.	“ “ “ Bosworth's, silver, three sizes	“ 1 00

*All instruments illustrated are designated by a * .*

Nasal Instruments.

ANTRUM AND FRONTAL SINUS BURRS AND CANULAS.



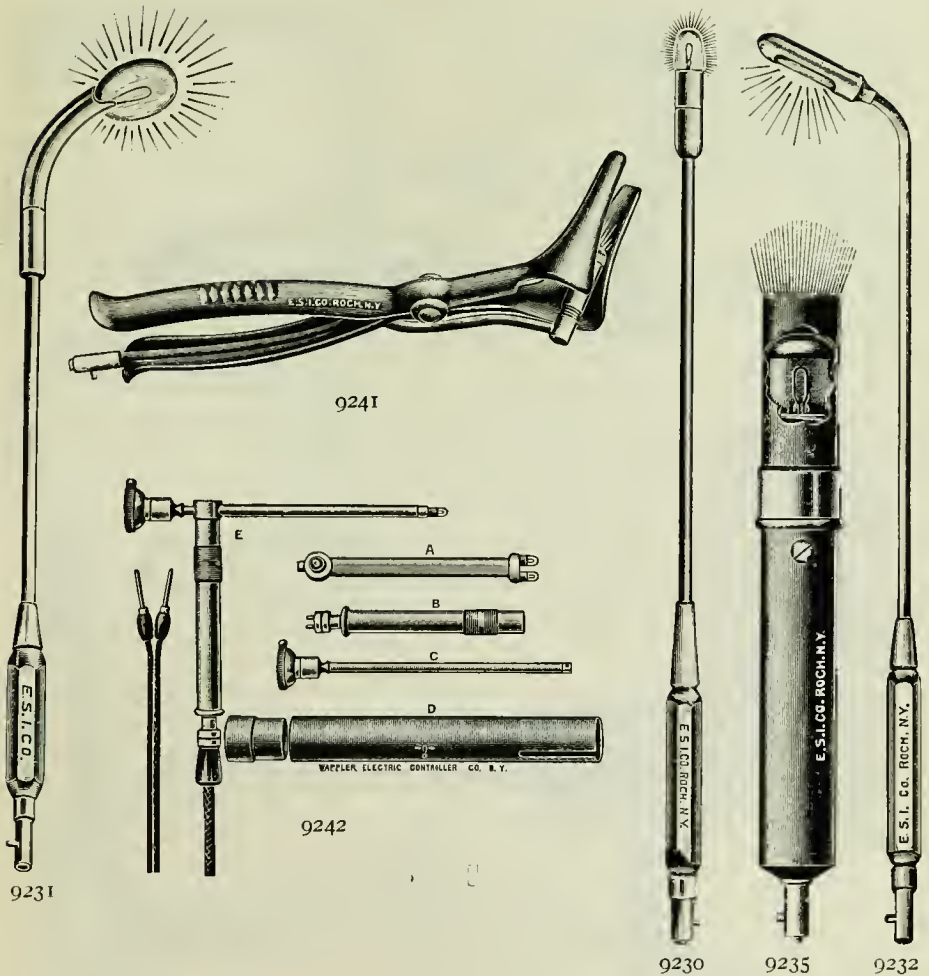
9219.	Antrum	Punch, Ostrom's	. . . . .	\$7 50
9220.*	"	Burr, Ballenger's, two sizes	. . . . . each	3 00
9221.*	"	" Tilley's, curved shank	. . . . .	3 00
9222.*	"	Canula, Bresgen's, silver, flexible	. . . . .	75
9223.*	"	" Fraenkel's, " "	. . . . .	80
9224.*	"	" Hartmann's " "	. . . . .	80
9224a.*	"	Geo. L. Richards', steel canula with large hub to use mallet; tubing or a syringe with tapering tip can be attached for washing out	. . . . .	1 00
9224b.*	"	Trocar and Canula, J. Leslie Davis', similar to Myles'; very fine at the point and gradually enlarges; the opening can thus be made as large as desired; the canula is extra long and extends well outside of the nostril, facilitating the attachment of tubing	. . . . .	2 00
9225.	"	Knives, Andrews', right and left	. . . . . each	2 25
9226.*	Frontal Sinus	Canula, Hartmann's, silver, flexible	. . . . .	80
9227.*	"	" " Weaver's, " "	. . . . .	1 25
9228.*	"	" Probe, " " "	. . . . .	1 00
9229.	"	" Bone Forceps, Prince's, . . . . .	. . . . .	13 50

All instruments illustrated are designated by a *

"Our own well-equipped factory is at your command for the production of any special instrument which you desire made. Our mechanics are experts in their various specialties. Our charges are as moderate as consistent with first-class work."

Nasal Instruments.

ELECTRICAL ILLUMINATORS.

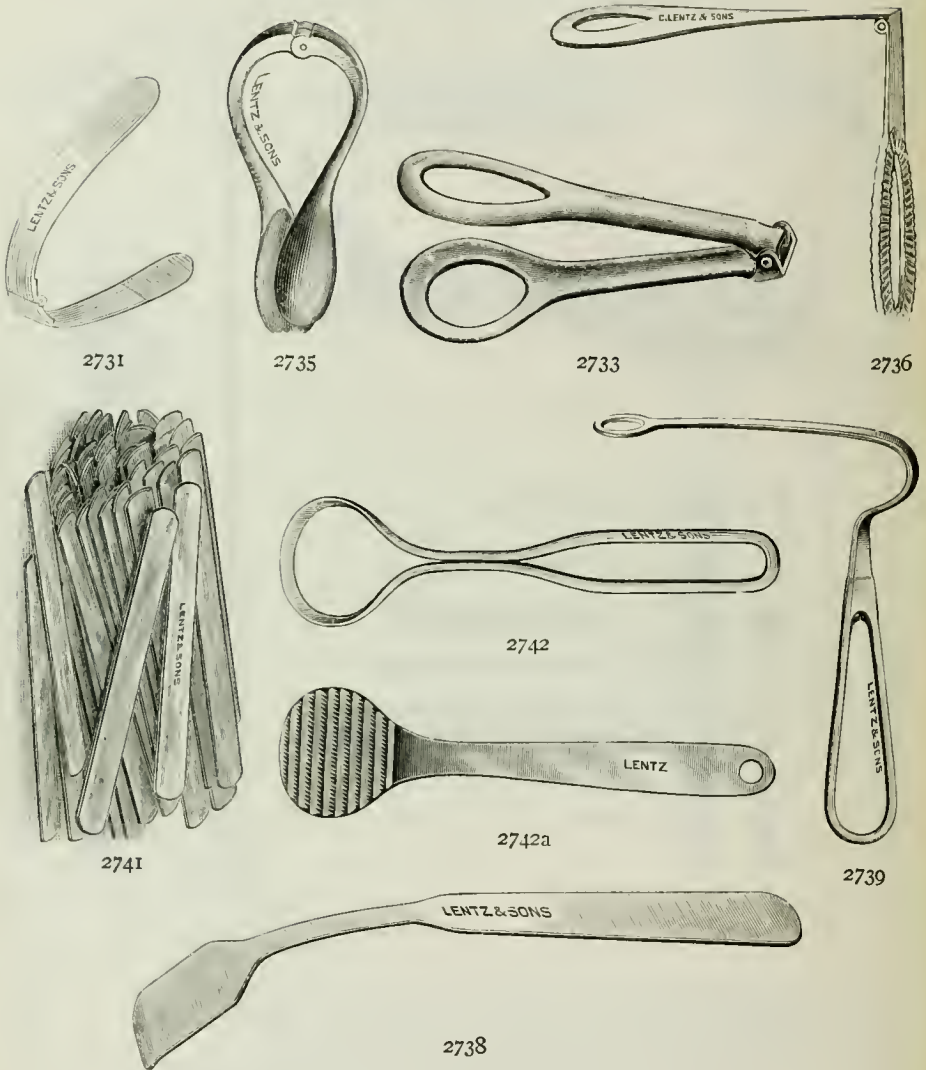


- 9230.* General Diagnostic Lamp, with lens front lamp; length, 19 cm. . . . \$2 50
- 9231.* Naso-Pharyngeal " Chevalier Jackson's; length, 19 cm. . . . 4 00
- 9232.* Post Nasal Lamp, Kyle's; length 19 cm. 3 50
- 9235.* Frontal Sinus Illuminator, with lens front lamp, 10 cm. 3 00
- 9237. " " " Birkeitt's, for simultaneous illumination of the frontal sinus on both sides 13 50
- 9239. " " " Freer's; can be operated with alternating or direct current either style 5 00
- 9240. Salpingoscope, Drs. Hirschmann and Valentine's, for illuminating the antrum Highmore, ethmoid, nasal and pharyngeal cavities; complete with conducting cords and one extra lamp, in metal case 35 00
- Extra Lamps for salpingoscope, mounted, \$1.50 each.
- 9241.* Nasal Speculum, illuminating, bivalve 4 00
- 9242.* Pharyngoscope or Laryngoscope, Hays', illuminating, fitted with two lamps 30 00
- 9243. " " " Schmuckert's, illuminating, fitted with one Tungsten lamp, folding handle 25 00

SECTION VI.

Mouth and Throat Instruments.

TONGUE DEPRESSORS.

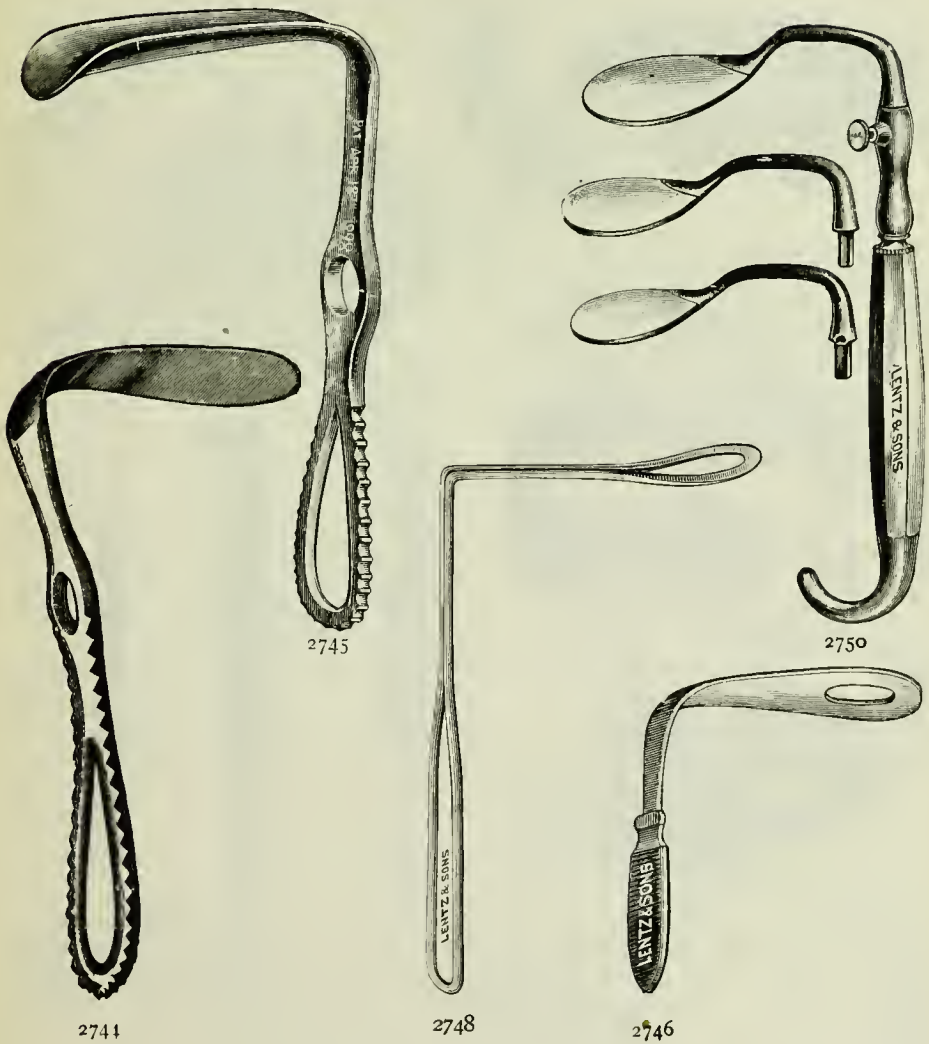


2731.*	Tongue Depressor, folding,	Cohen's, metal, long and short blades . . .	\$1 35
2732.	"	Smith's, "	35
2733.*	"	double, fenestrated, small, wrought metal, .	30
2735.*	"	Godwillie's, small and large concave blades .	65
2736.*	"	Lentz's, large, wrought metal, strong and light	60
2738.*	"	Lautenbach's, made of non-corrosive silver metal . . .	75
2739.*	"	Kyle's, steel, very light and strong	I 00
2740	"	and Retractor, Bliss', steel, for children	I 00
2741.*	"	Wood Blades, 6 in. long, 3/4 in. wide, per box of 8 dozen	30
2742.*	Scraper, Lentz's, double edge, nickel-plated		50
2742a.*	"	Feilchenfeld's, steel, nickel-plated	60

All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

TONGUE DEPRESSORS.



2743.	Tongue Depressor, Sass', hard rubber	\$o 6o
2744.*	“ “ metal	I oo
2745.*	“ “ Sawyer's, concaved blade	I 25
2746.*	“ “ Bosworth's, steel, strong and light	85
2747.	“ “ De Vil'biss', plain wire	35
2748.*	“ “ Bulette's, steel, curved up end	75
2749.	“ “ Tuerck's, all metal, single blade	I 25
2750.*	“ “ “ “ “ 3 blades, with hollow handle	3 5o
2751.	“ “ double bent, strong plate glass, polished edge	6o
2752.	“ “ Stehmann's, self-retaining	I 25
2753.	“ “ Freeman's mod. Tuerck's, folding, all metal	3 5o
2754.	“ “ “ like Fig. 2744, all metal, with electric lamp	1o oo

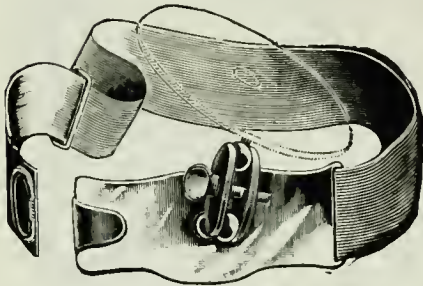
All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

REFLECTING MIRRORS, HEADBANDS, ETC.



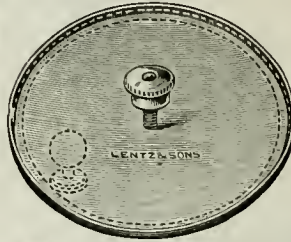
2767



2766



2769



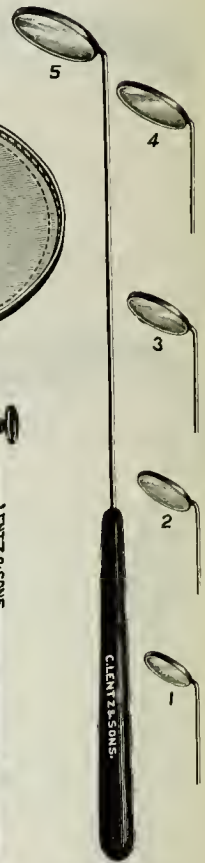
2774



2763



2764

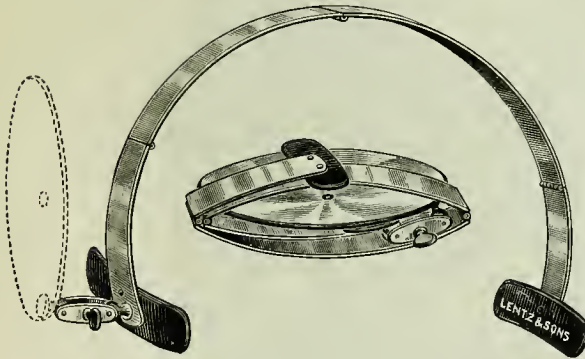


2760-2762a

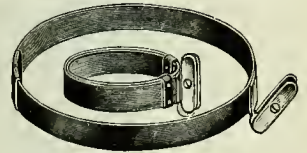
2760.*	Laryngoscopic Mirror, with metal handle, six sizes	each \$0 45
2761.*	“ “ “ without handle, “ “	“ 30
2762.*	“ “ “ with metal handle, boilable, six sizes	“ 65
2762a.*	“ “ “ without handle, “ “ “	“ 50
2763.*	“ “ “ Handle, metal, with set screw, plain, 25c.; fine	35
2764.*	“ “ “ “ hard rubber or metal, with set screw	35
2765.	Reflecting Mirror, with Bosworth's headband, 3 in., \$1 90; 3½ in.	2 10
2766.*	“ “ “ with Gleason's headband, 3 in., \$2 25; 3½ in.	2 50
2767.*	“ “ “ with Ivins' headband, 3 in., \$2 50; 3½ in., \$2 75; 4 in.	3 00
2772.*	“ “ “ with Fox's fine folding headband, steel; light, strong and compact (see next page); 3 in., \$4 25; 3½ in.	4 50
2773.	“ “ “ with ball on back for headband, 3 in., \$1 25; 3½ in., \$1 50; 4 in.	1 85
2773a.	“ “ “ with ½-inch hole, aluminum back; for Fraenkel's headband, and aluminum protecting cover for safe carrying; very light; 3 in., \$2 50; 3½ in.	2 75
2774.*	Mirror Protector, aluminum, for 3 and 3½-inch mirror, for safe carrying	each 30
2760.*	Pocket Light, "Albosol," acetylene gas, complete in case	5 00

Mouth and Throat Instruments.

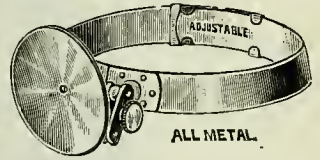
HEADBANDS.



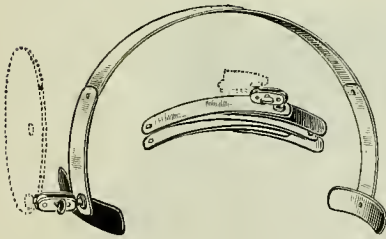
2772



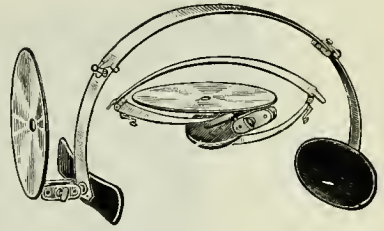
9304



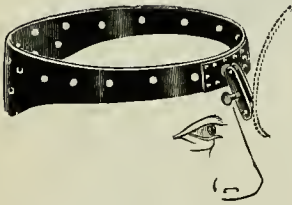
9305



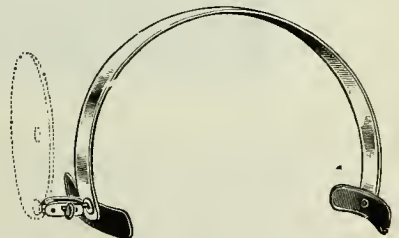
9302



9301



9300



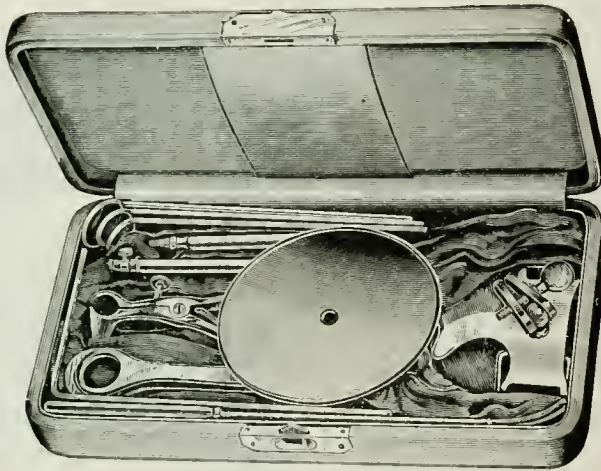
9303-9303a

2775.	Headband only,	Bosworth's, metal shield, with elastic band	\$0 75
2776.	"	" Gleason's, " " leather "	1 00
2777.	"	" Ivins', hard rubber shield, with silk band	1 25
9300.*	"	" Vienna pattern, hard rubber; fits like a hat	3 00
9301.*	"	" Worrall's modified Fox's, folding	3 00
9302.*	"	" " plain, folding	1 50
9303.*	"	" Fox's, not folding, steel	1 75
9303a.*	"	" "Philadelphia," plain, not folding	1 25
9304.*	"	" Fraenkel's, fibre, adjustable	2 00
9305.*	"	" Clark's, metal, adjustable	2 25

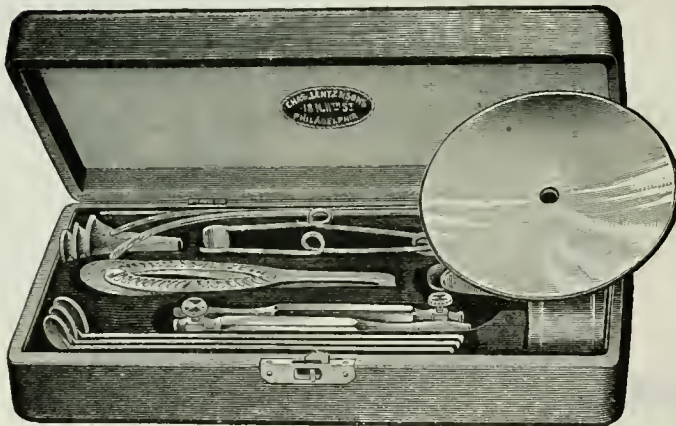
For Electric Headbands, see Electrical Section.

Mouth and Throat Instruments.

EXAMINING CASES.



2786



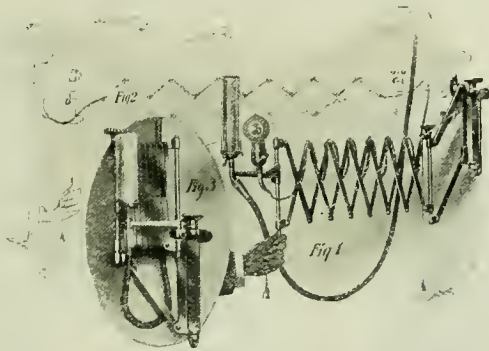
2787

- | | | |
|--------|--|--------|
| 2785. | Laryngoscopic Set No. 1, contains 3½ inch reflecting mirror, Gleason's headband, three assorted laryngeal mirrors, one metal universal handle, set of three hard rubber ear specula, tongue depressor, in leather lined case | \$5 50 |
| 2786.* | Laryngoscopic Set No. 2, contains 3½ inch head mirror, nasal rest headband, one universal handle, three assorted laryngeal mirrors, tongue depressor, curved sponge holder, aluminum or plated applicator, Kramer's ear and nose speculum, in leather lined case | 6 50 |
| 2787.* | Laryngoscopic Set No. 3, Shallcross', contains 3½ inch reflecting mirror, Gleason's (or Ivins') headband, three assorted laryngeal mirrors, two metal universal handles, Ivins' nasal speculum, Lentz's tongue depressor, set of three Toynee's silver-plated ear specula, one nasal, one post-nasal, and one laryngeal applicator, in leather lined case | 6 50 |
| 2788. | Laryngoscopic Set No. 4, Lentz's, contains 3½ inch reflecting mirror, Gleason's headband, three assorted laryngeal mirrors, two metal universal handles, Lentz's tongue depressor, Wilde's angular ear forceps, set of four Gruber's hard rubber ear specula, Goodwillie's nasal speculum, aluminum laryngeal applicator, sponge holder, ear applicator, in leather lined case | 8 00 |

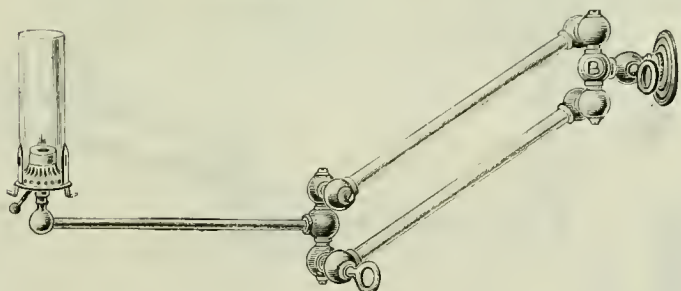
*All instruments illustrated are designated by a *.*

Mouth and Throat Instruments.

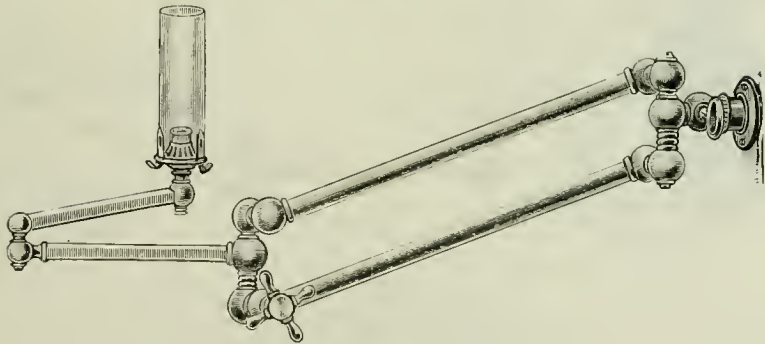
GAS BRACKETS.



2801-a-b



2801c

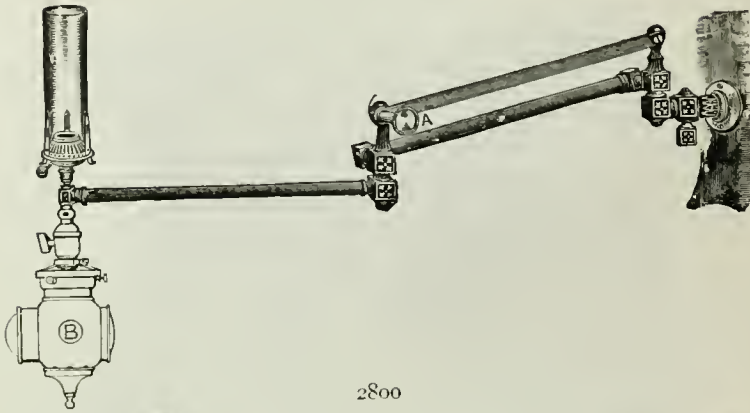


2801d

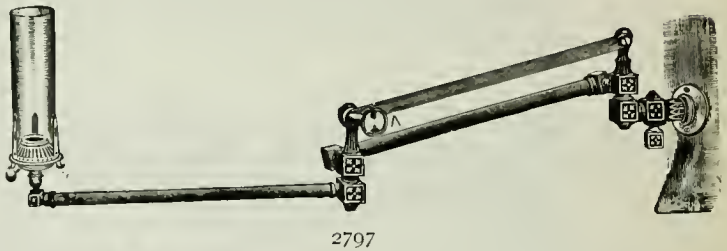
2801.*	Adjustable	Extension Bracket, Allison's, oxidized copper; can be extended to 78 inches; for gas, with Argand burner	\$8 50¢
2801a.*	"	Extension Bracket, Allison's, for electric light.	9 50¢
2801b.*	"	" " " " combination, for both gas and electric light	12 00¢
2801c.*	"	Gas Bracket, double arm, with set-nut; extreme length, 22 inches; brass or nickel-plated; complete, with Argand burner and chimney	6 75
2801d.*	"	Gas Bracket, triple arm, with large set-nut; extreme length, 27 inches; brass or nickel-plated; complete with Argand burner and chimney	9 50

All instruments illustrated are designated by a *.

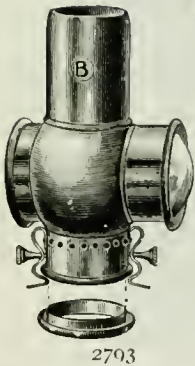
Mouth and Throat Instruments.
LARYNGOSCOPES AND GAS BRACKETS.



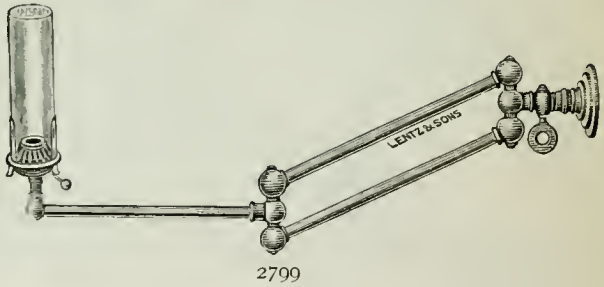
2800



2797



2793

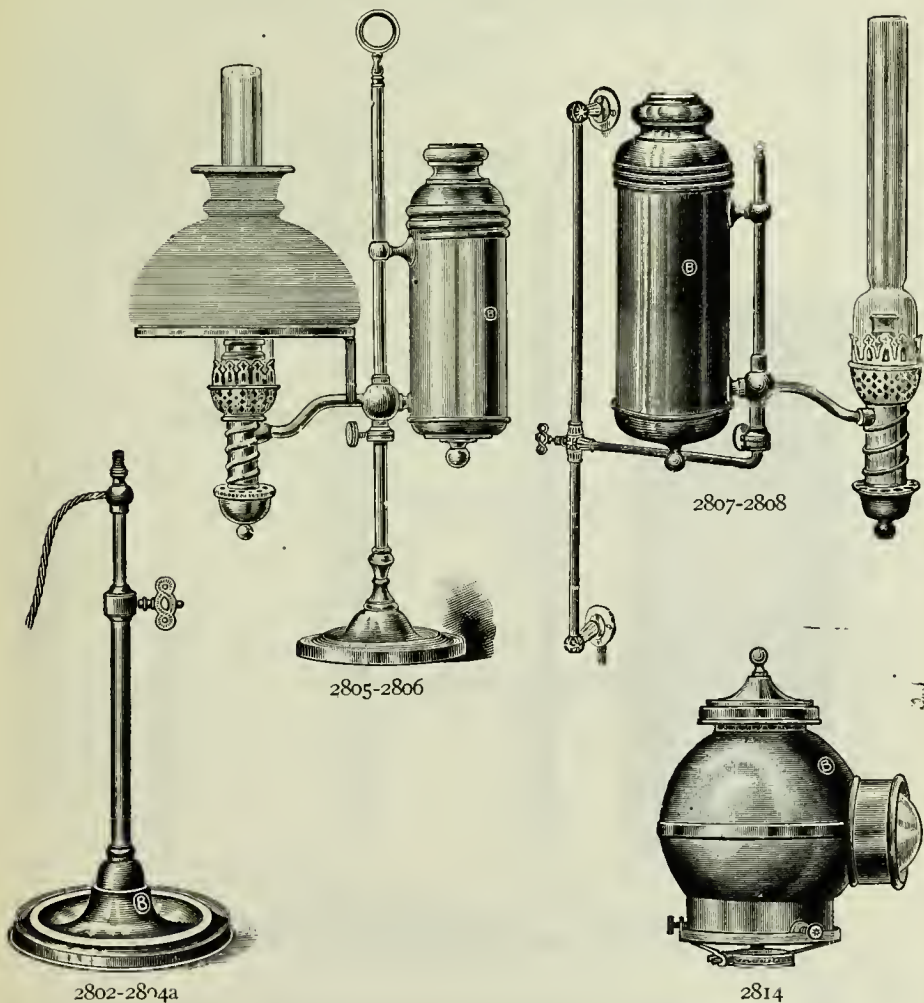


2799

2791.	Light Condenser, improved, nickel-plated, with mirror rod and 3½ inch mirror	\$7 25
2792.	" " improved, nickel-plated, with mirror rod, but without mirror	6 00
2793.*	" " improved, nickel-plated, without mirror rod or mirror	3 00
2794.	" " improved, nickel-plated, large, for Welsbach light	3 50
2797.*	Adjustable Gas Bracket, with set-nut, nickel-plated; extreme length, 30 inches	7 50
2798.	" " " same as Figure 2797, but having third arm, making the extreme length 40 inches	8 75
2799.*	" " " brass, plated, well fitting joints; does not require a set-nut	5 00
2800.*	" Combination Gas and Electric Light Bracket, nickel-plated, extreme length 30 inches, with set-nut; Argand burner and fitting for electric light	8 50
2801.	" Extension Bracket, Allison's, oxidized copper; can be extended to 78 inches; for gas, with Argand burner	8 50†
2801a.	" Extension Bracket, Allison's, for electric light	9 50†

All instruments illustrated are designated by a *.

Mouth and Throat Instruments.
ADJUSTABLE STANDS, LAMPS AND CONDENSERS.

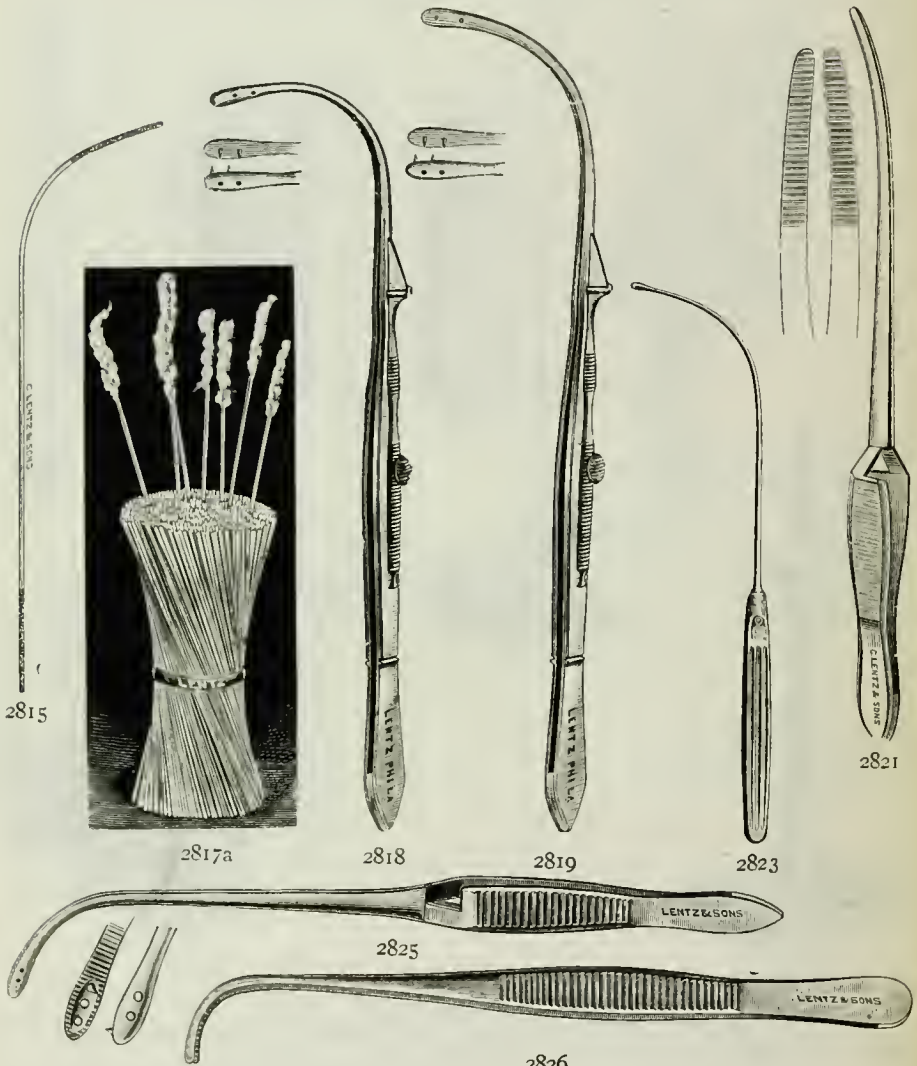


2802.*	Adjustable Stand for electric light, nickel-plated; adjustable from 12 to 18 inches; with Edison electric light socket	\$3 75
2803.*	Adjustable Stand for electric light, nickel-plated; adjustable from 27 to 48 inches; with Edison electric light socket	5 50
2804.*	Adjustable Stand for gas light, nickel-plated; adjustable from 12 to 18 inches; with Argand burner, chimney and 6 feet tubing	5 00
2804a.*	Adjustable Stand for gas light, nickel-plated; adjustable from 27 to 48 inches; with Argand burner, chimney and 6 feet tubing	7 00
2805.*	Student Lamp, nickel-plated, with glass oil reservoir	7 50
2806.*	“ “ with adjustable wall bracket, nickel-plated, with glass oil reservoir	5 00
2807.*	“ “ with adjustable wall bracket, nickel-plated, with glass oil reservoir	8 75
2808.*	“ “ with adjustable wall bracket, nickel-plated, with metal oil reservoir	6 25
2812.	Adjustable Wall Bracket, only, for student lamp	2 50
2813.*	“ “ for gas	6 00
2814.*	Light Condenser, extra large size, improved pattern, for use with 50 c. p. stereopticon lamp	5 50

*All instruments illustrated are designated by a *.*

Mouth and Throat Instruments.

LARYNGEAL APPLICATORS, COTTON HOLDING FORCEPS.

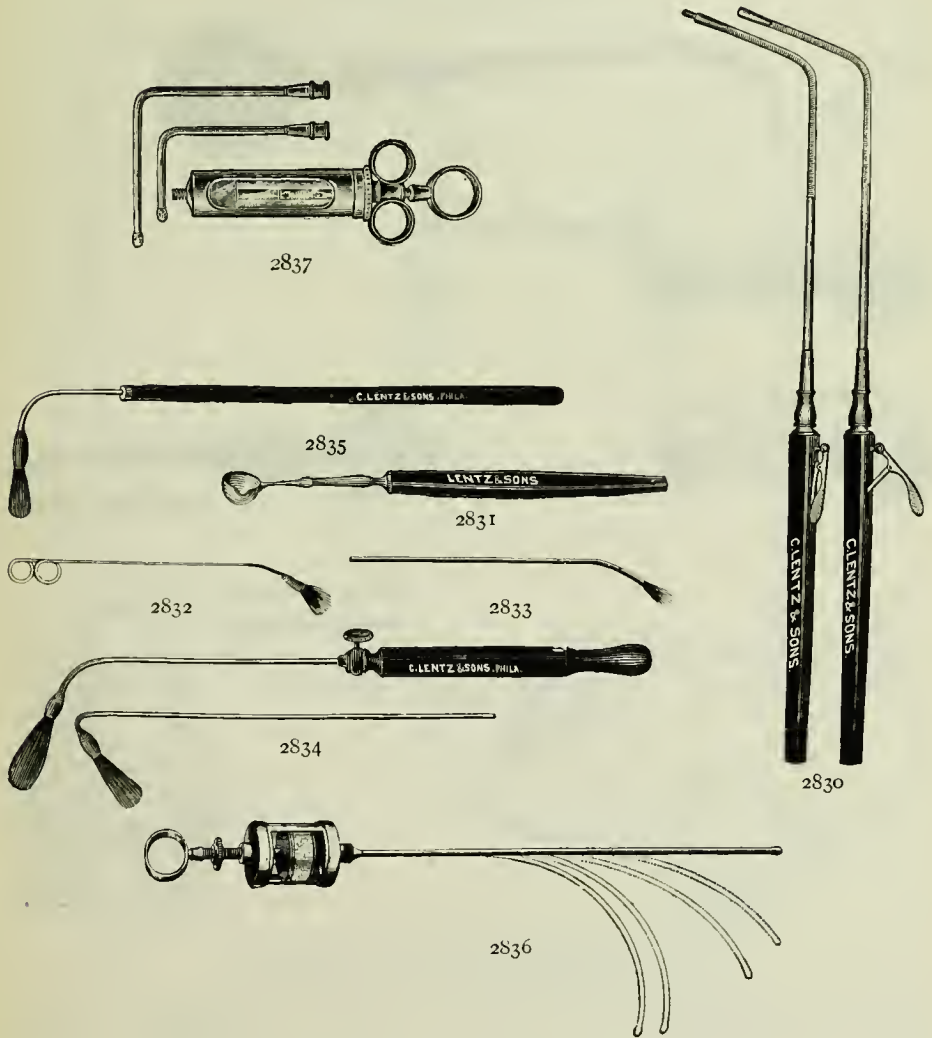


2815.*	Cotton Applicator, aluminum	each, 5c.; dozen	\$0 25
2816.	" " " with set screw handle		25
2817.	" " " with fixed handle		15
2817a.*	" " wood, 6 inch long, per box of 72 dozen		30
2818.*	Cotton Holding Forceps, Sajous', universal handle		3 00
2819.*	" " " Miller's, laryngeal		3 00
2820.	" " " Cohen's, laryngeal, three different curves . each		3 00
2821.*	" " " pharyngeal, self-retaining		2 25
2825.*	" " " improved, "		3 25
2826.*	" " " Marvel's		2 25
2827.	" " " Dabney's		2 75
2822.	" and Sponge Holder, Buck's, with metal handle		40
2823.*	Laryngeal Probe, Tobold's		60
2824.	" Electrode, Mackenzie's improved, for paralysis of the vocal cords		3 50

All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

ACID APPLICATORS, THROAT BRUSHES.

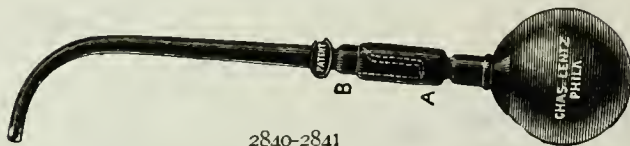


2828.*	Acid Applicators, Gleitzmann's, set of six with set-screw handle	. . . \$	1 25
2829.	" Payne's " four " " " " " " " " " " " "	. . . . .	1 50
2830.*	" MacCoy's, flexible, silver tipped, lever movement	. . . . .	4 50
2831.*	Platinum Cup for melting nitrate of silver	. . . . .	\$2 00 to 3 00
2832.*	Throat Brushes, camel's hair, plain wire handles	. . . . .	10c. each; per doz. 80
2833.*	" " " " wood handles	. . . . .	10c. " " 80
2834.*	" " " Wagner's, with set-screw handle, 2 stems and 12 brushes	. . . . .	2 50
2835.*	" " " Mackenzie's, with fixed handle and 6 brushes	. . . . .	1 60
2836.*	Tracheal Syringe, Muir's, with flexible tube	. . . . .	1 75
2837.*	" " " Donnellan's, aseptic, two tips	. . . . .	4 50

*All instruments illustrated are designated by a **

Mouth and Throat Instruments.

POWDER INSUFFLATORS.



2840-2841



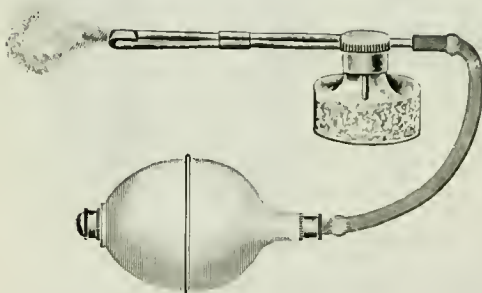
2844



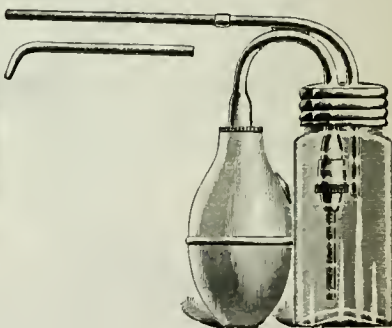
2845



2849



2856



2859

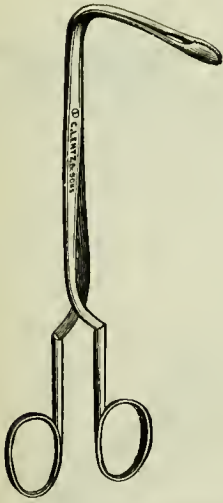
2840.*	Powder Blower.	with scoop, hard rubber, with bulb	\$0 50
2841.*	"	" " " " " " " " large bulb, best grade	75
2844.*	"	Cohen's, glass barrel, hard rubber fittings	1 50
2845.*	"	" shown folded for convenience in carrying.	
2849.*	"	Fraenkel's, hard rubber reservoir, two tips	1 50
2856.*	"	De Vilbiss'; will throw the powder in any desired direction	1 00
2859.*	"	Hasbrouck's, with two metal tips	1 35

All instruments illustrated are designated by a *.

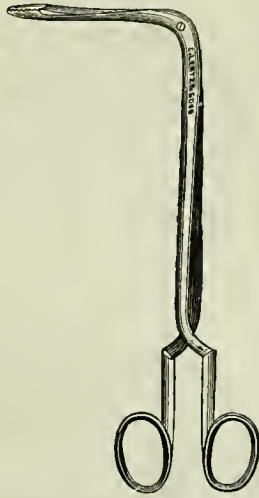
"Our own well-equipped factory is at your command for the production of any special instrument which you desire made. Our mechanics are experts in their various specialties. Our charges are as moderate as consistent with first-class work."

Mouth and Throat Instruments.

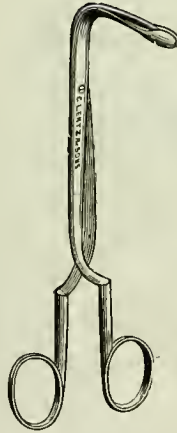
LARYNGEAL FORCEPS.



2862



2863



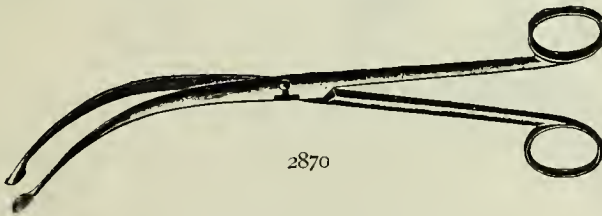
2865



2866



2867



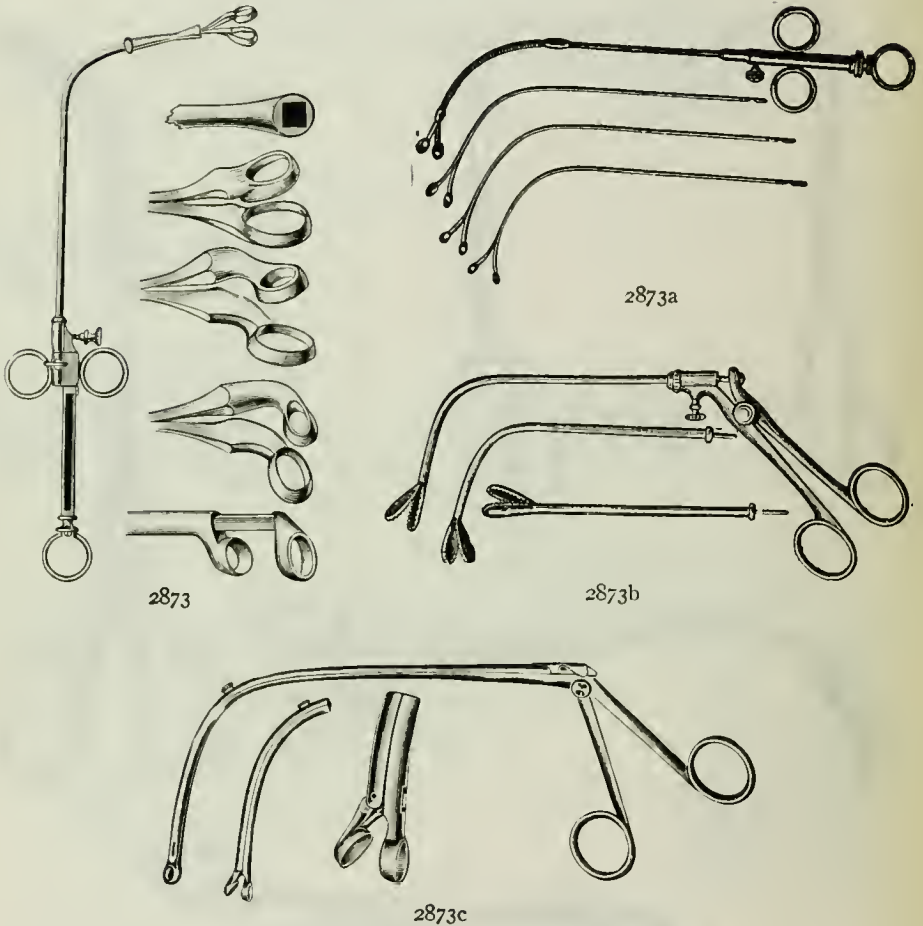
2870

2862.*	Throat Forceps, Mackenzie's, opening laterally, serrated jaws	\$2 50
2863.*	" " " " antero-posteriorly, serrated jaws	2 50
2864.	" " " " " " cutting edge jaws	3 00
2865.*	" " " " " " laterally, cutting edge jaws	3 00
2866.*	" " " " Buck's	2 00
2867.*	" " " " Luer's, opening laterally	6 00
2868.	" " " " " " antero-posteriorly	6 00
2869.	" " " " Waxham's, articulated	5 00
2870.*	" " " " Tobold's, serrated jaws	2 00
2871.	" " " " " " antero-posterior or lateral each	4 50
2872.	" " " " Mathieu's latest, with finely serrated alligator jaws	6 50

All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

LARYNGEAL FORCEPS.



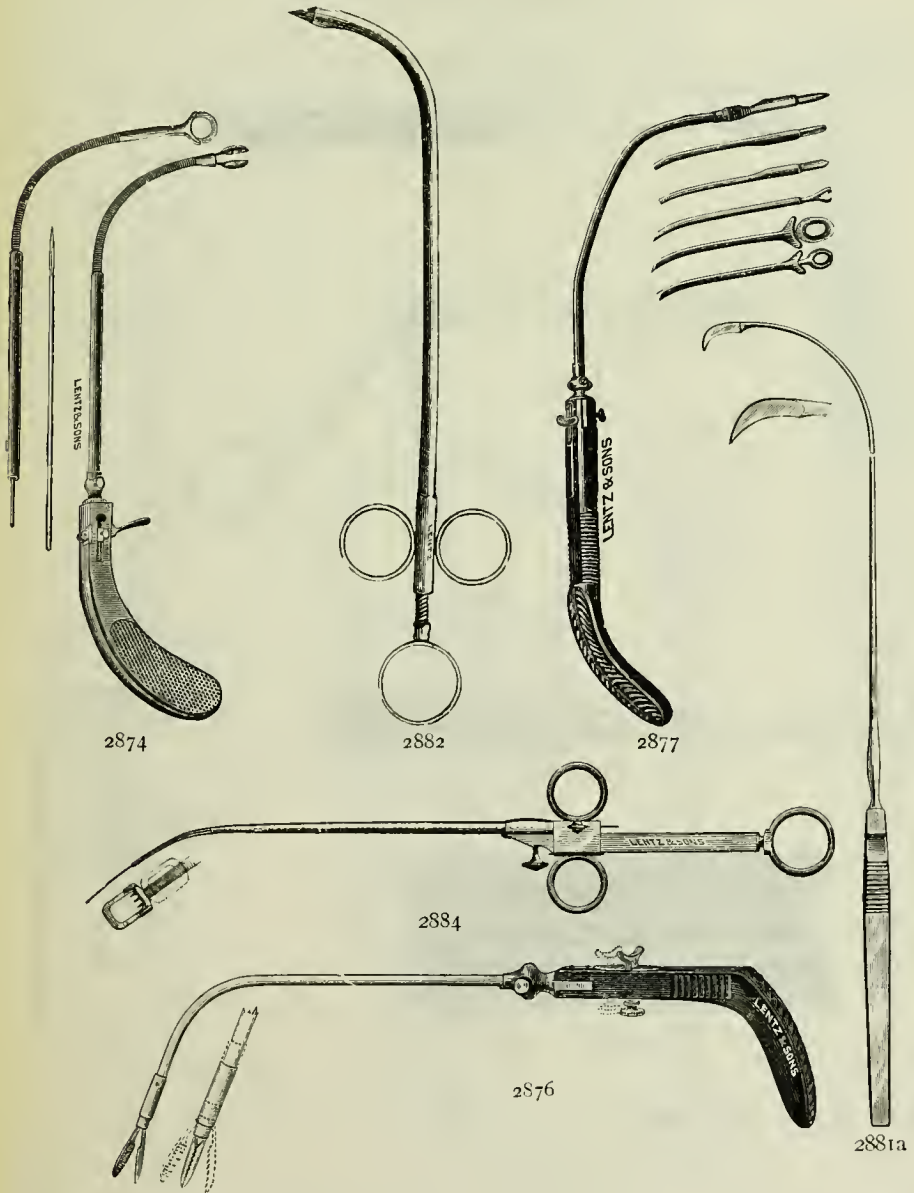
2873.*	Laryngeal Forceps, Heryngs', modification of Krause's double curettes, adjustable in any direction, complete, in case . . .	\$25 00
2873a.*	" " Moritz Schmidt's, sharp spoon, for removal of singer noddles; set of four	12 00
2873b.*	" " Gottstein's, universal grasping, set of four	18 00
2873c.*	" " Killian's, lateral or antero-posterior each	7 50
2873d	" " Krause's, set containing twelve assorted instruments; complete, in metal case	40 00

*All instruments illustrated are designated by a *.*

"Our factory is equipped to repair, sharpen, polish and nickel plate your instruments in the best of manner and at shortest notice. For approximate costs of repair work, see page following index."

Mouth and Throat Instruments.

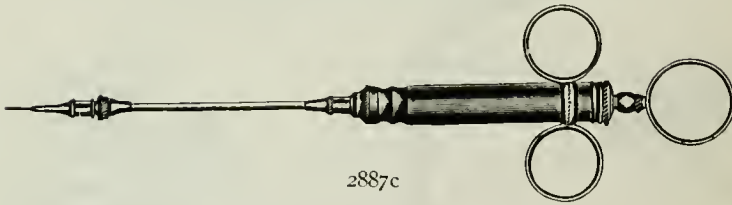
EXTIRPATION INSTRUMENTS AND LARYNGEAL KNIVES.



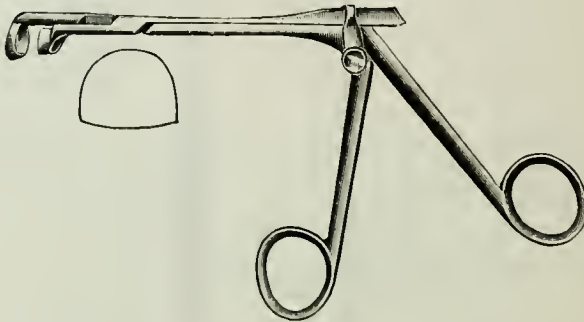
2874.*	Guillotine, Laryngotome and Tube forceps, Seiler's, can be curved to any angle	\$16 00
2875.	Laryngeal Tube Forceps, only, Seiler's	11 00
2876.*	" " Schroetter's improved	12 00
2877.*	Extirpation Instruments, Tuerck's, set of six and handle, in case	25 00
2878.	" " Schroetter's, set of nine and handle, in case	30 00
2879.	" " Krause's " " five " "	25 00
2880.	Laryngeal Knife, Tobold's, probe pointed, up and downward curve . each	1 75
2881.	" " " " lancet shape	1 50
2881a.*	" " " " J. Leslie Davis'	1 50
2882.*	" " Lancet, concealed, Tobold's	4 50
2883.	Scissors, Tobold's, for removing polypi from vocal cord, right and left, each	6 50
2884.*	Lingual Tonsilotome, Myles'	5 00

Mouth and Throat Instruments.

LINGUAL TONSIL INSTRUMENTS.



2887c



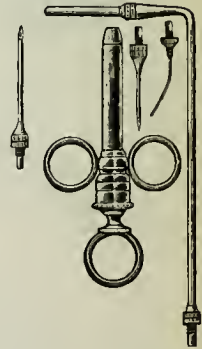
2886



2887



2887a



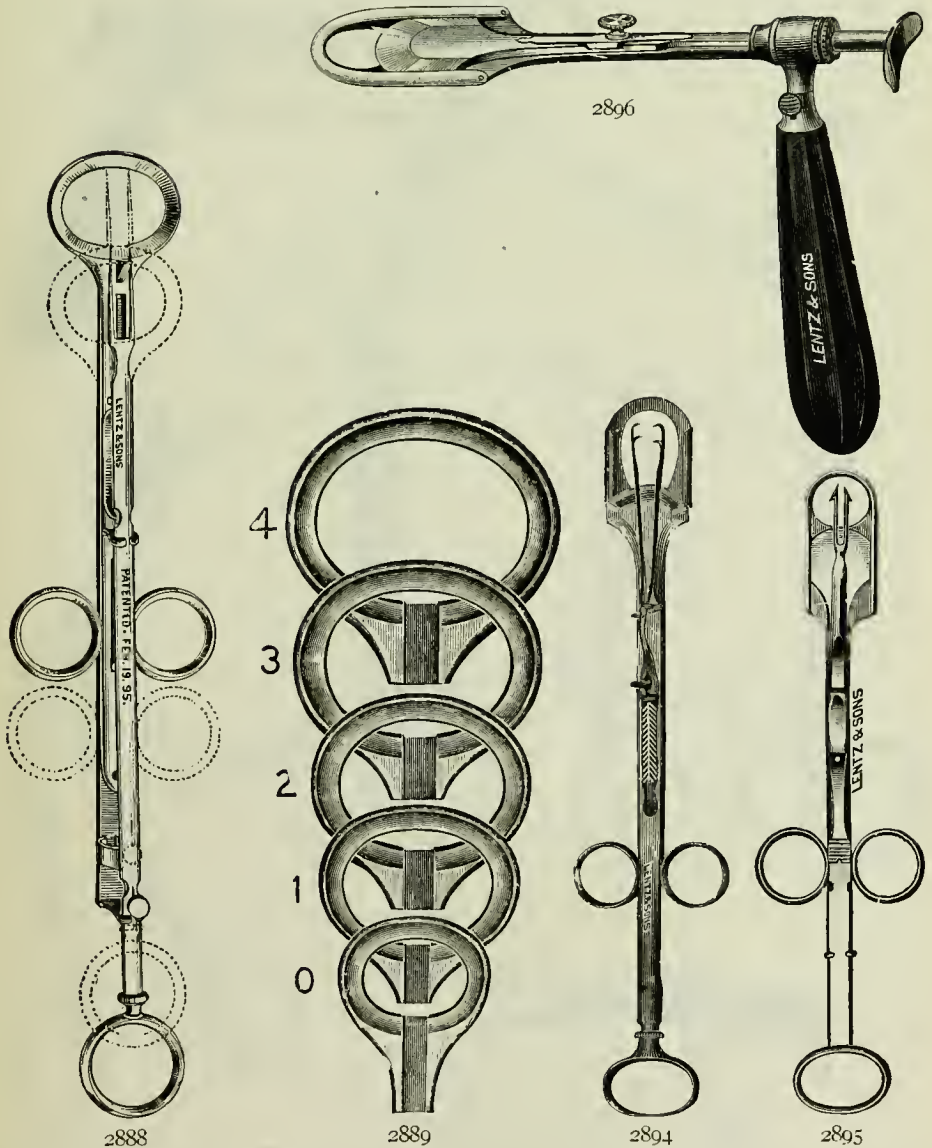
2887b

2884a.	Lingual Tonsilotome, Toeplitz's, set of three blades in universal handle,	
	in case	\$15 00
2885.	" Tonsil Scissors, Kirkpatrick's	4 00
2886.*	" " Punch, Schmeden's	12 00
2886a.	" " " Citelli's	10 50
2887.*	" " Curette, Winckler's	1 75
2887a.*	Tonsil Syringe, Pynchon's, in case	5 00
2887b.*	" " Kyle-Dennis'	4 00
2887c.*	" " Street's, three needles in case	3 50

*All instruments illustrated are designated by a **

Mouth and Throat Instruments.

TONSILOTOMES.

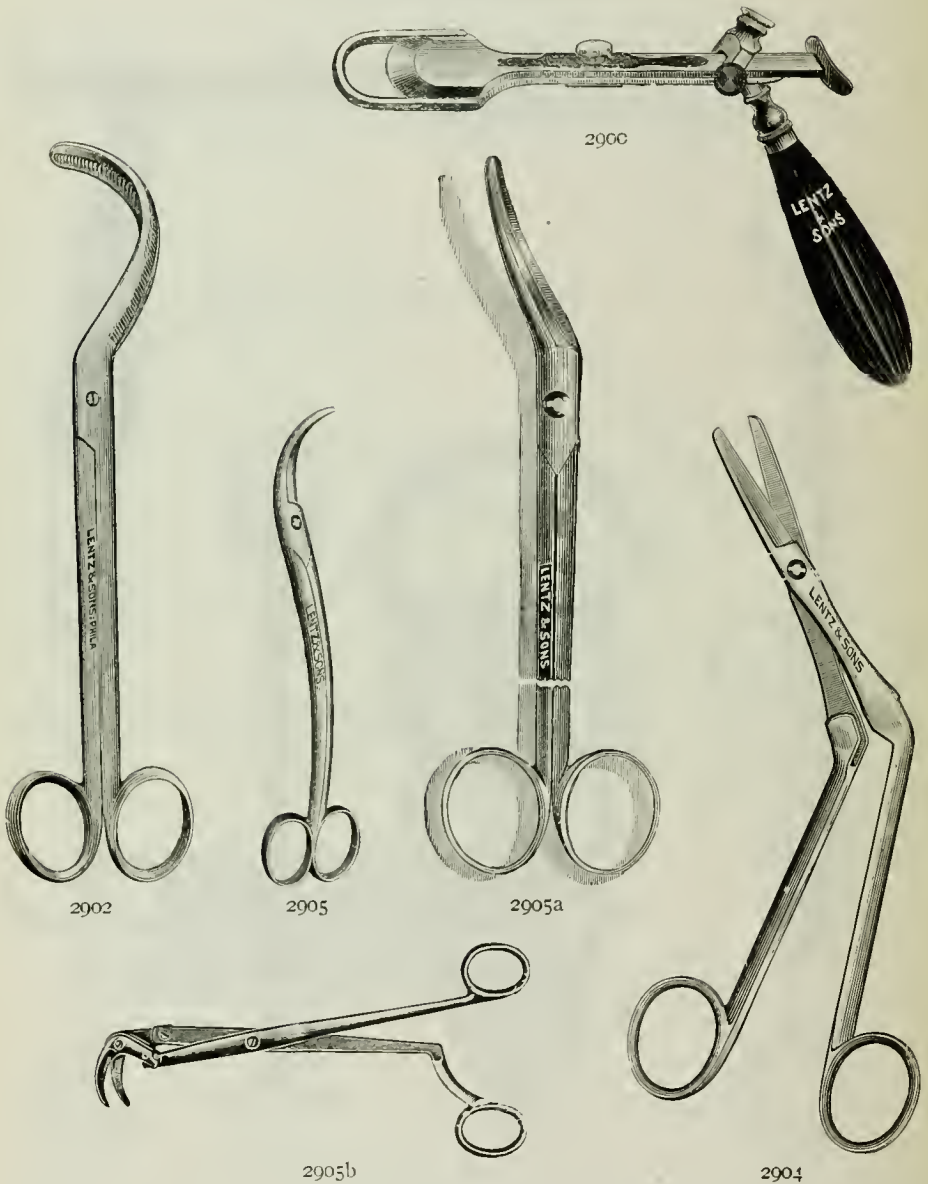


2888.*	Tonsilotome, Mathieu's improved, in only three pieces, sizes 1 to 4	each	\$4 00
2889.*	" Mathieu-Ermold's, sizes 0 to 4	"	3 50
2890.	" Lennox Brown's, triangle pointed blade, four sizes . .	"	8 00
2891.	" " four sizes with one handle		24 00
2892.	" Mathieu's original, three sizes	each	5 25
2894.*	" Billings'		6 50
2895.*	" Marconi's		8 00
2896.*	" Mandeville's, adjustable to right or left side . .		8 00

All instruments illustrated are designated by a *

Mouth and Throat Instruments.

TONSILOTOMES, TONSIL SCISSORS.

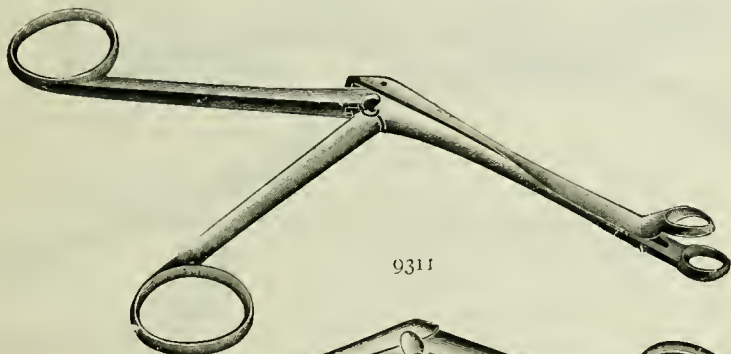


2900.*	Tonsilotome, Mackenzie's, adjustable to right or left side, four sizes.	each	\$6 75
2901.	" " plain, four sizes	"	4 75
2902.*	Tonsil Scissors, Kyle's, right and left, serrated edges	"	4 00
2904.*	" " Bliss'	"	3 50
2905.*	" " King's, full curved, serrated edges	"	4 00
2905a.*	" " Kirkpatrick's, right and left, serrated edges	each	3 00
2905b.*	" " Robertson's " "	"	8 00
2905c.	" " Griffin's	"	3 25
2905d.	" " curved on flat, serrated edges	"	1 75

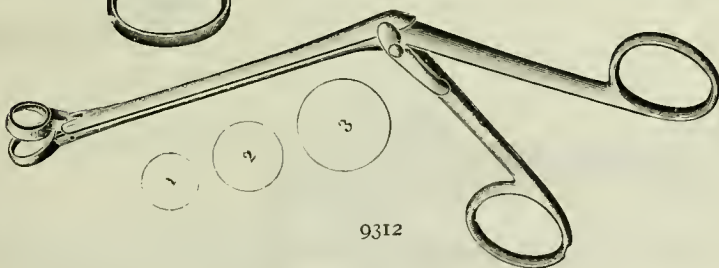
All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

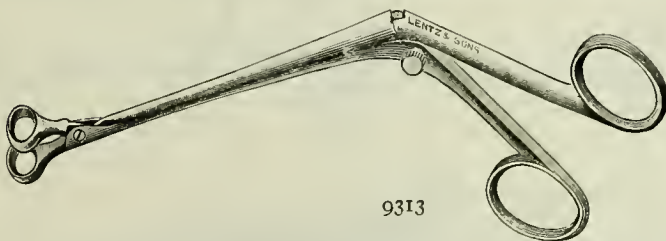
TONSIL PUNCHES.



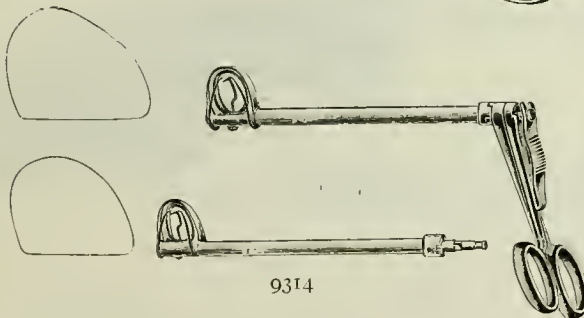
9311



9312



9313



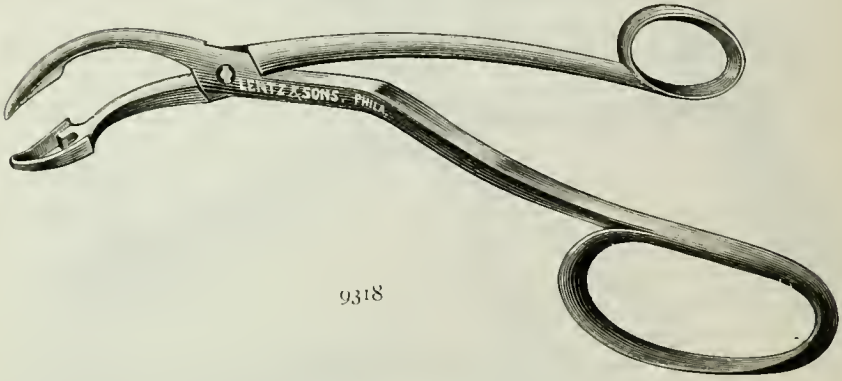
9314

9309.	Tonsil Punch, Myles', round point, straight	\$8 50
9310.	" " " " " right and left	each 8 50
9311.*	" " " " " hawk bill, original	8 00
9312.*	" " " " " Hartmann's, round, three sizes	each 6 50
9313.*	" " " " " oval	8 00
9314.*	" " " " " Roberts' improved, reversible, two sizes	each 9 00

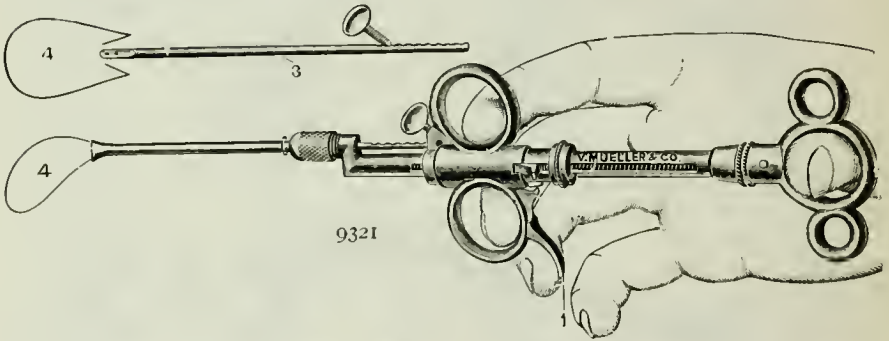
*All instruments illustrated are designated by a *.*

Mouth and Throat Instruments.

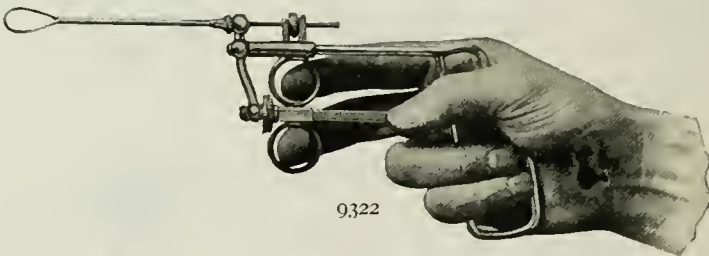
TONSIL PUNCHES AND SNARES.



9318



9321



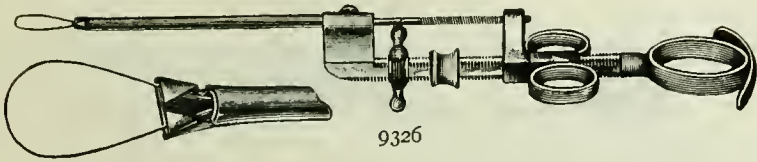
9322

9315.	Tonsil Punch,	Ruault's	.....	\$7 50
9316.	"	"	Farlow's	8 50
9317.	"	"	Rhodes'	6 00
9318.*	"	"	Freeman's, right and left	each 7 50
9320.	"	Snare,	Farlow's	10 00
9321.*	"	"	Farlow-Boettcher's	10 00
9322.*	"	"	Duffee's, pistol grip	4 00
9323.	"	"	Kratzmuller's, with one straight canula and medium Vedder tip	10 00
9324.	"	"	Canula, extra Vedder tip, three sizes	each 1 50

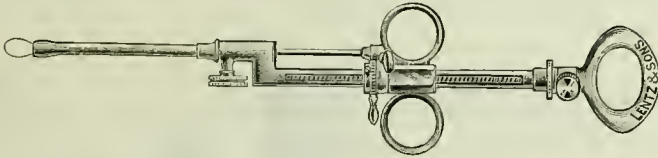
All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

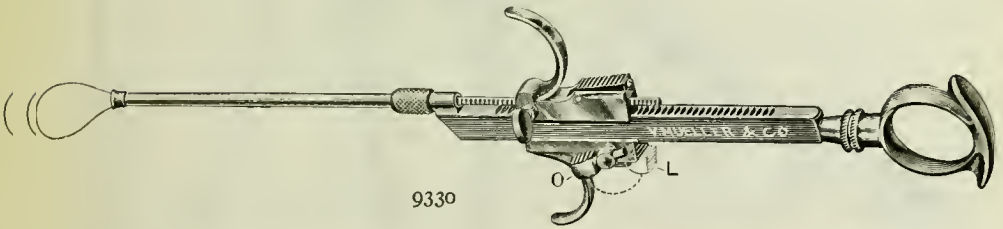
TONSIL SNARES.



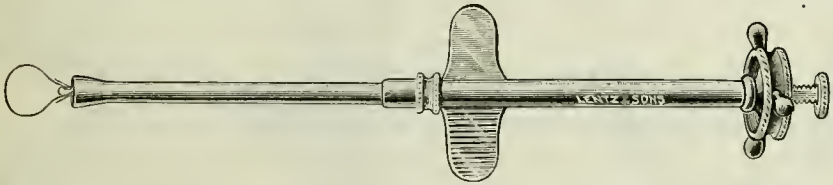
9326



9328



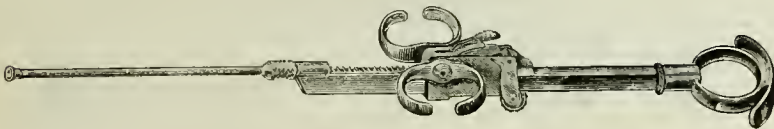
9330



9332



9333



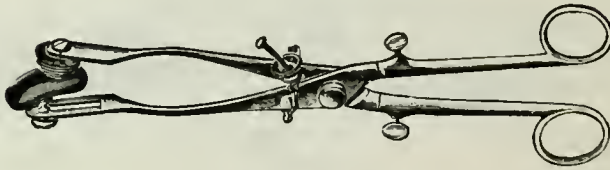
9334

9325.	Tonsil Snare,	Bosworth's modified, extra strong	\$8 00
9326.*	" "	Pynchon's	8 00
9327.	" "	Sloane's	4 50
9328.*	" "	Margaret F. Butler's	12 00
9330.*	" "	Pierce-Mueller's	10 00
9332.*	" "	S. MacCueñ Smith's, medium and heavy each	4 00
9333.*	" "	Watson's, all steel, light and strong	3 00
9334.*	" "	Martin's	10 00
9335.	Forceps for cutting and shaping wires for snares		1 00

All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

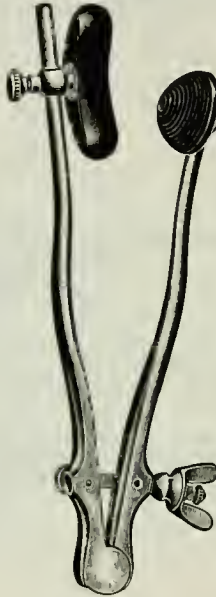
TONSIL HEMOSTATS.



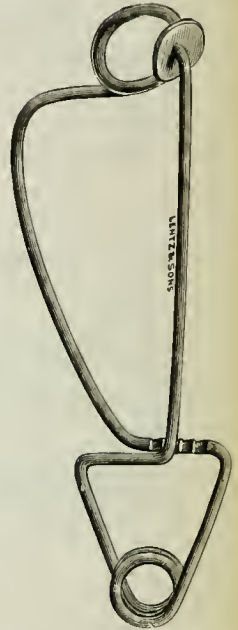
9340



9343



9342



9339



9382

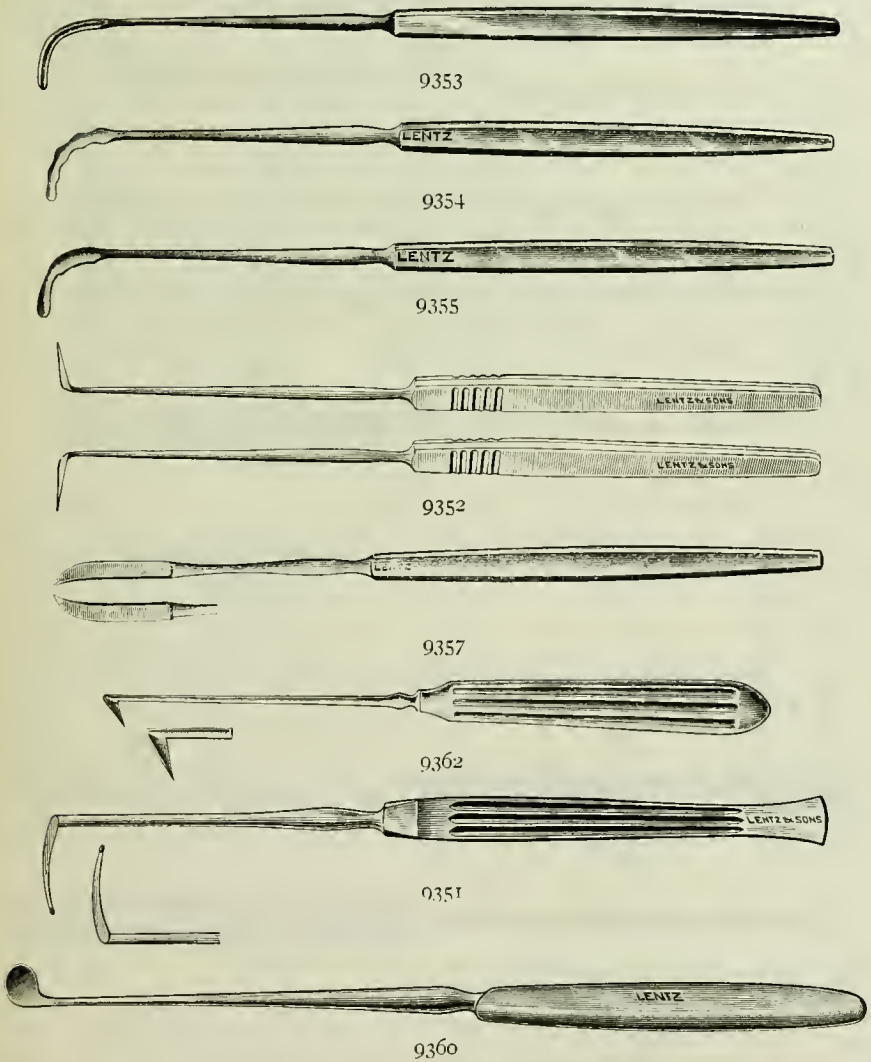


9339.*	Tonsil Hemostat, Goodwillie's	\$2 25
9340.*	" " Mikulicz-Stoerk's	6 50
9341.	" " " " for either side	7 25
9342.*	" " Boettcher's	3 50
9343.*	" " Pynchon's	6 50
9344.	" " Jackson's	2 50
9345.	" " Pierce's, reversible	9 00

*All instruments illustrated are designated by a *.*

Mouth and Throat Instruments.

TONSIL KNIVES.



9350.	Tonsil Bistoury, Green's	.. . . .	\$1 50
9351.*	" Knife, Leland's, right and left	.. . . .	each 2 00
9352.*	" " Makuen's	.. . . .	" 1 75
9353.*	" " Robertson's	.. . . .	" 2 00
9354.*	" " Robertson-Allport's, wave edge	.. . . .	" 2 00
9355.*	" " Robertson-Swan's	.. . . .	" 2 00
9357.*	" " Freer's, right and left	.. . . .	each 2 00
9358.	" " Swan's, right angle	.. . . .	" 1 75
9359.	" " Swan-Allport's, right angle	.. . . .	each 1 75
9360.*	" " Pierce's, curved on flat, two sizes	.. . . .	" 2 00
9361.	" " Tyding's, curved blade, blunt point	.. . . .	" 2 00
9362.*	" " Kirkpatrick's	.. . . .	" 1 25

*All instruments illustrated are designated by a **

Mouth and Throat Instruments.
TONSIL KNIVES, CURETTES AND SEPARATORS.



9369



9370



9371



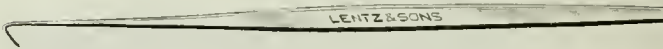
9374



9376



9372



9373



9377



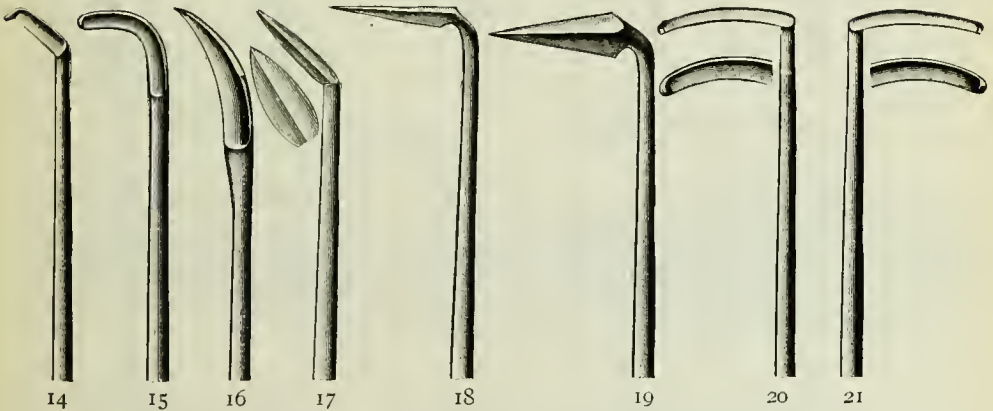
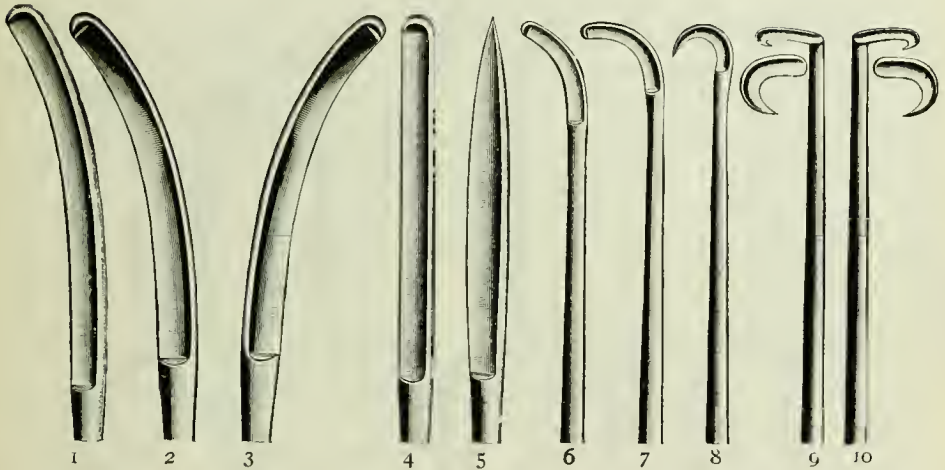
9379

9368.	Tonsil Knife, Watson's, double edge	\$1 50
9369.*	" " Douglass'	1 75
9370.*	" " Myles', right and left each	1 50
9371.*	" Hook, Makuen's	1 00
9372.*	" " Weaver's	1 25
9373.*	" " sharp, for opening crypts	75
9374.*	" Crypt Curette, Makuen's, for removal of foreign substances	1 25
9375.	" " " Meierhof's, " " " "	1 50
9376.*	" " " Abraham's, " " " "	1 50
9377.*	Tonsil Dissector, S. MacCuen Smith's	1 00
9378.	" " Ingals'	3 50
9379.*	" " Pond's	1 25
9380.	" " Biedert's, blunt end, cutting edge	1 25
9381.	" " Freer's	2 50
9382.*	" " and Hoe, Hurd's (see illustration page 252)	2 00

*All instruments illustrated are designated by a *.*

Mouth and Throat Instruments.

TONSIL KNIVES.



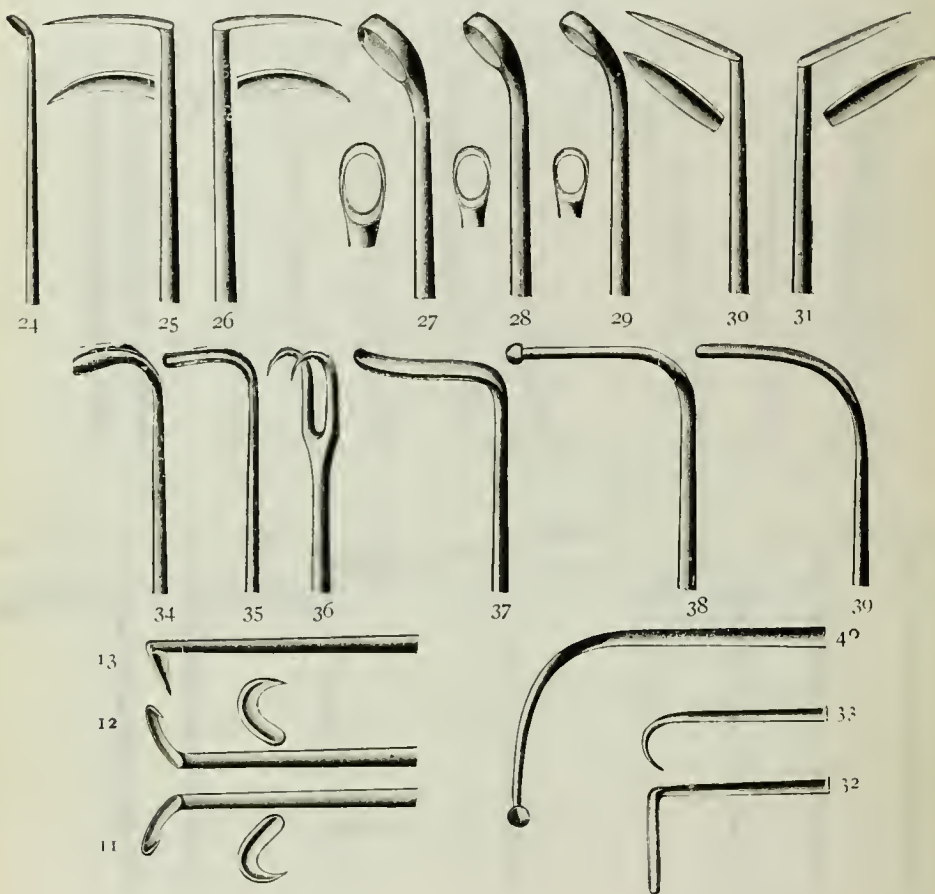
1.*	Tonsil Bistoury, Green's	\$1 25
2.*	" " Hobbs' right	I 25
3.*	" " " left	I 25
4.*	" " Heryng's, blunt point	I 10
5.*	" Abscess Knife, sharp point	I 10
6.*	" Bistoury, slightly curved	I 10
7.*	" Knife, Tyding's	I 10
8.*	" " Myles', full curved	I 25
9.*	" " " " right	I 25
10.*	" " " " left	I 25
14.*	" " Douglass'	I 25
15.*	" " Abraham's, blunt point	I 25
16.*	" " " double edged	I 25
17.*	" " Pynchon's	I 25
18.*	" " Walton's	I 40
19.*	" " Pierce's, double edged	I 40
20.*	" " Leland's, left	I 25
21.*	" " " right	I 25

For handles to hold these instruments see page 255b.

All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

TONSIL KNIVES, CURETTES, ETC.



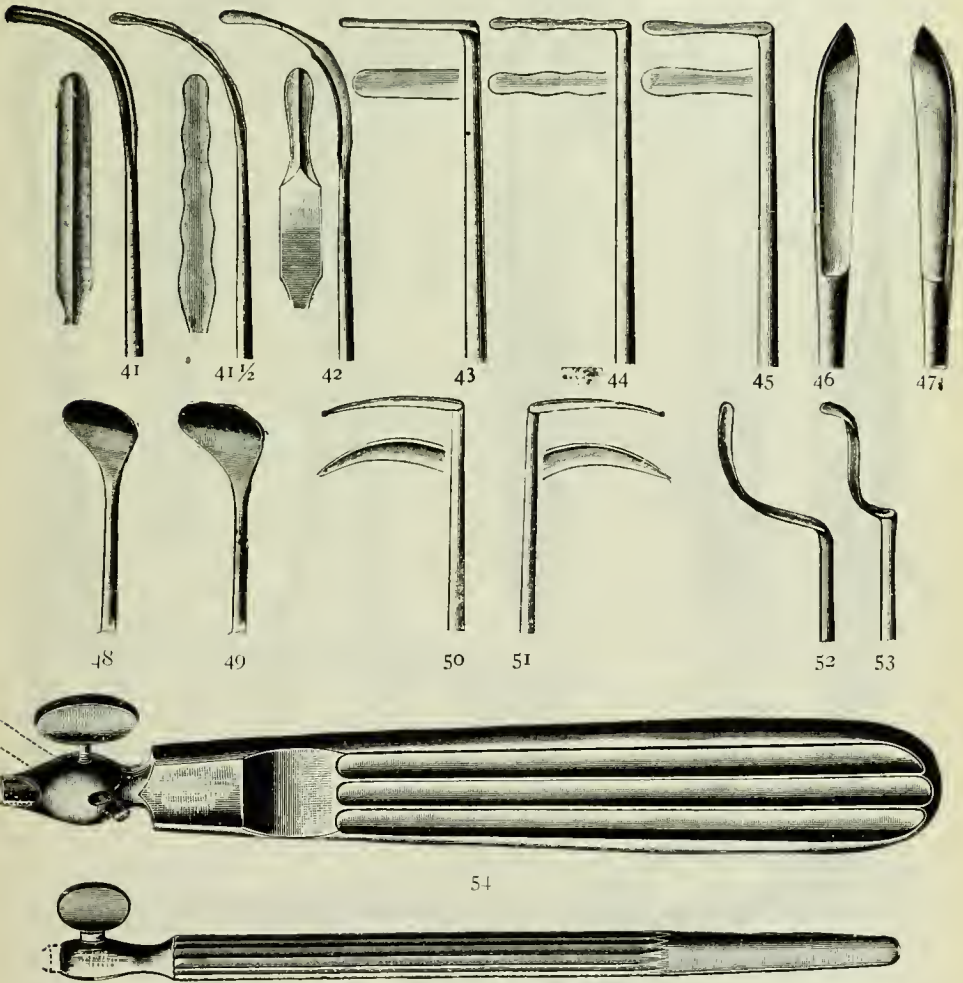
11.*	Tonsil Knife, Myles', angular, right	\$1 25
12.*	" " " " " left	1 25
13.*	" Crypt Knife, Kirkpatrick's	1 25
24.*	" Curette, Abraham's	1 25
25.*	" Knife, plain, sharp, right	1 25
26.*	" " " " " left	1 25
27.*	" Curette, Meierhof's, large	1 25
28.*	" " " " " medium	1 25
29.*	" " " " " small	1 25
30.*	" Knife, convex blade, right	1 25
31.*	" " " " " left	1 25
32.*	" Hook, right angle, blunt	75
33.*	" Tenaculum	65
34.*	" Splitter	75
35.*	" Hook, plain	65
36.*	" Tenaculum, double	1 00
37.*	" Separator, Pond's	1 00
38.*	" Explorer, Pierce's	1 00
39.*	" Splitter, plain	75
40.*	" Crypt Curette, Makuen's	1 25

For handles to hold these instruments see page 255b.

All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

TONSIL KNIVES, ETC.

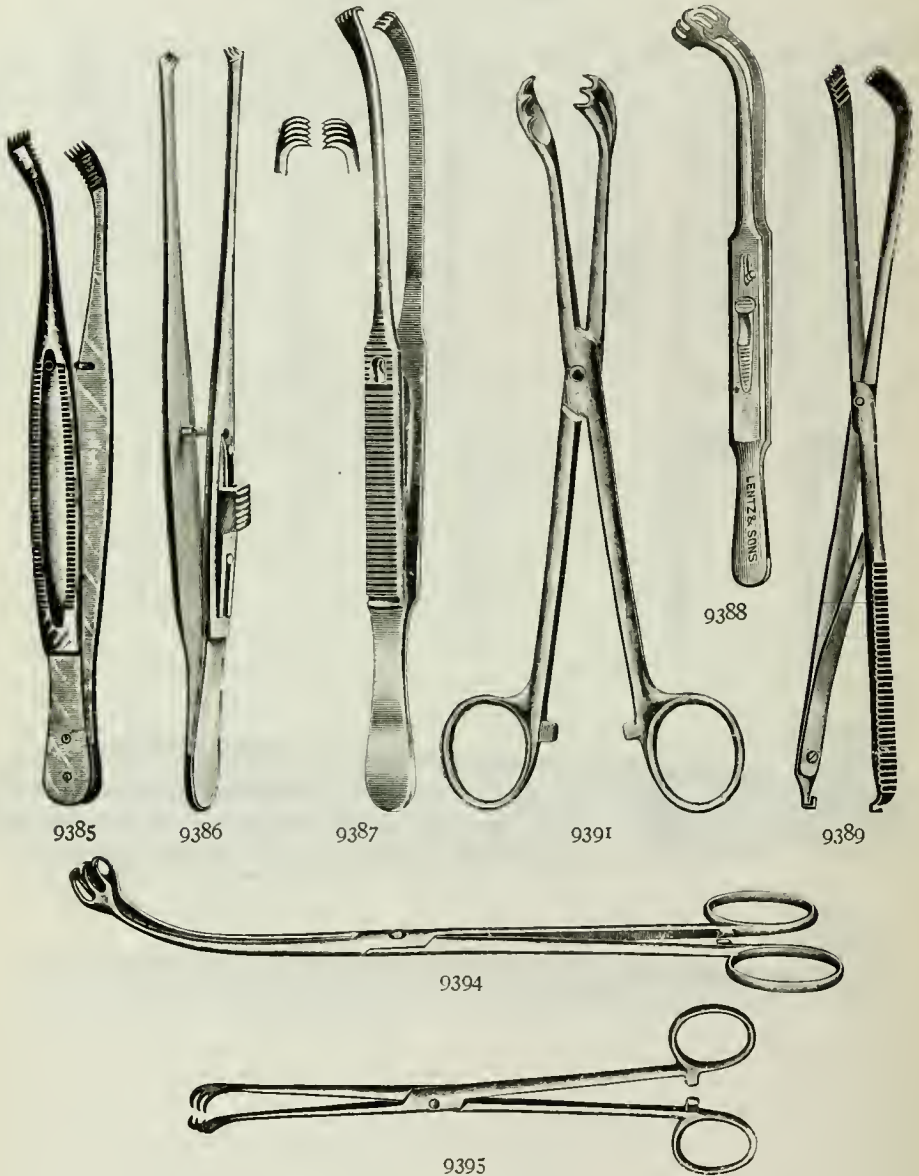


41.*	Tonsil Knife,	Robertson's	55		\$1 50
41 1/2.*	"	Robertson-Allport's, wave edge			1 50
42.*	"	" Swan's			1 50
43.*	"	Abraham's			1 50
44.*	"	" Allport's, wave edge			1 50
45.*	"	" Swan's			1 50
46.*	"	Freer's, right			1 50
47.*	"	" left			1 50
48.*	"	Pierce's, small			1 25
49.*	"	" large			1 25
50.*	"	Leland's, latest pattern, left			1 50
51.*	"	" " right			1 50
52.*	"	" bayonet shaped			1 75
53.*	"	Hagen's, double bayonet bend			1 75
54.*	Large size	Universal handle with set screw		each	1 25
55.*	Small size	handle with set screw		"	75
56.	"	plain handle, slip socket, holds securely		"	35

All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

TONSIL SEIZING FORCEPS.

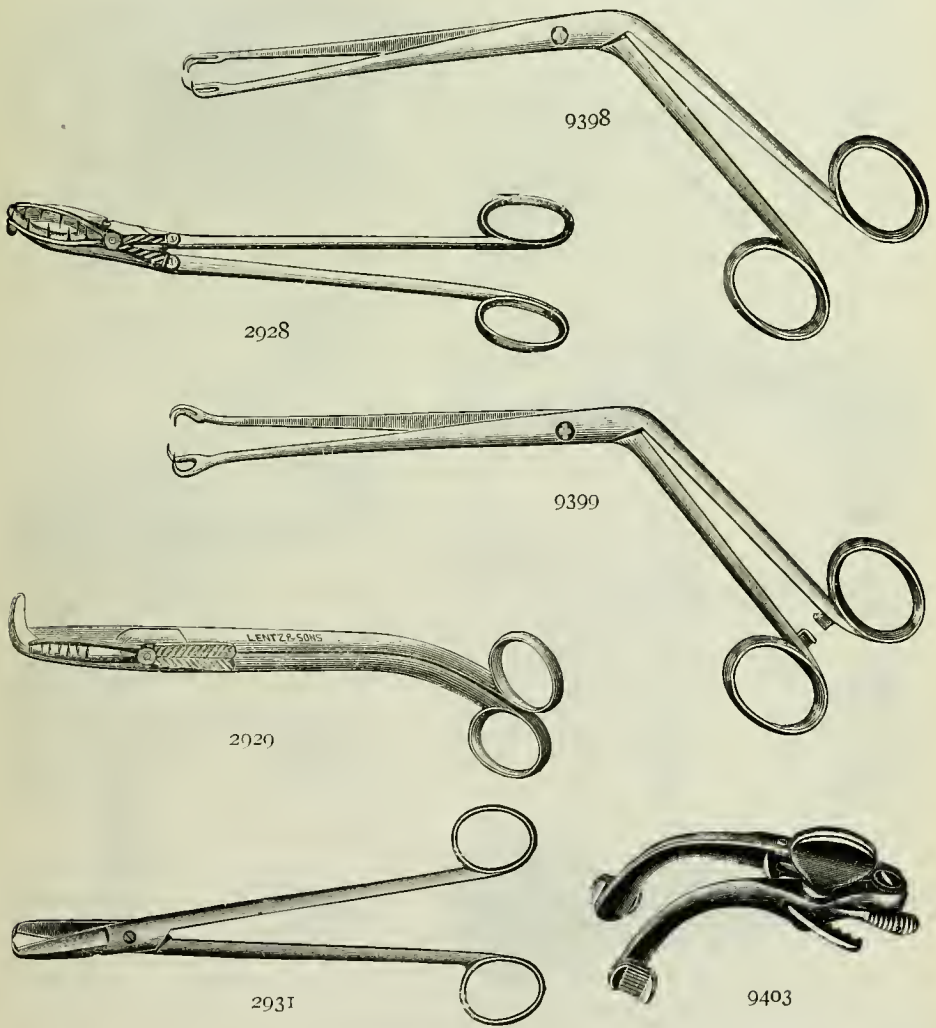


9385.*	Tonsil Holding Forceps, Pyncheon's	.....	\$2 50
9386.*	" " " S. MacCuen Smith's, slide catch	.....	1 75
9387.*	" " " Robertson's, spring catch	.....	3 00
9388.*	" " " Butler's	.....	4 75
9389.*	" " " Richards'	.....	3 75
9390.	" " " Ingals'	.....	2 50
9391.*	" " " Freer-Ingals'	.....	2 50
9392.	" " " White's	.....	2 50
9394.*	" " " Ballenger's	.....	2 25
9395.*	" " " Andrews'	.....	2 25

All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

TONSIL FORCEPS, UVULA RETRACTORS AND SCISSORS.

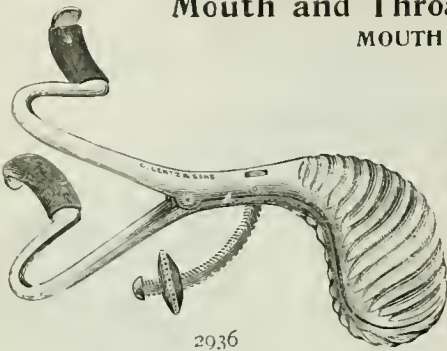


9396.	Tonsil Holding Forceps, curved on flat, 8 in.	\$2 00
9397.	" " " Musseux's, with side teeth	2 00
9398.*	" " " Watson's	2 00
9399.*	" " " Kirkpatrick's, with catch	2 25
2920.	Uvula Retractor, White's	1 00
2922.	" " Weagly's	1 50
2924.	" " Sajous'	1 25
2927.	" Scissors, curved on flat, without claws	1 50
2928.*	" " Johnson's	4 50
2929.*	" " Seiler's	5 00
2930.	" " Sajous'	5 25
2931.*	" " Weaver's, curved on flat	3 00

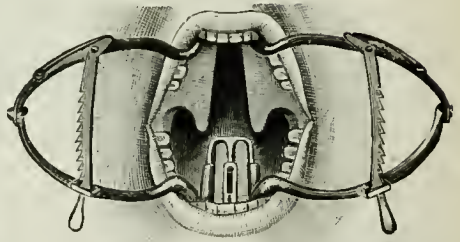
*All instruments illustrated are designated by a *.*

Mouth and Throat Instruments.

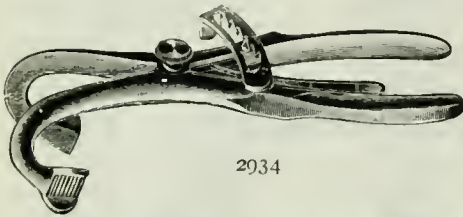
MOUTH GAGS.



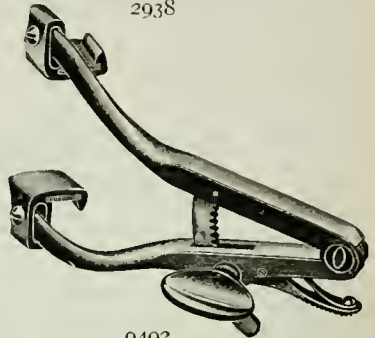
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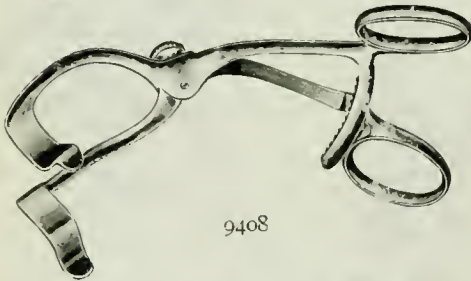
2938



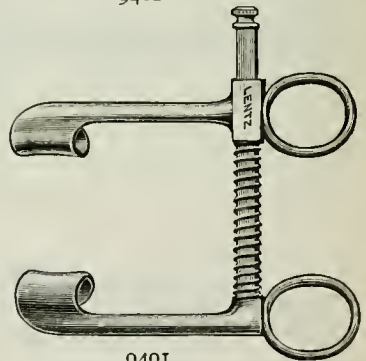
2934



9402



9408



9401

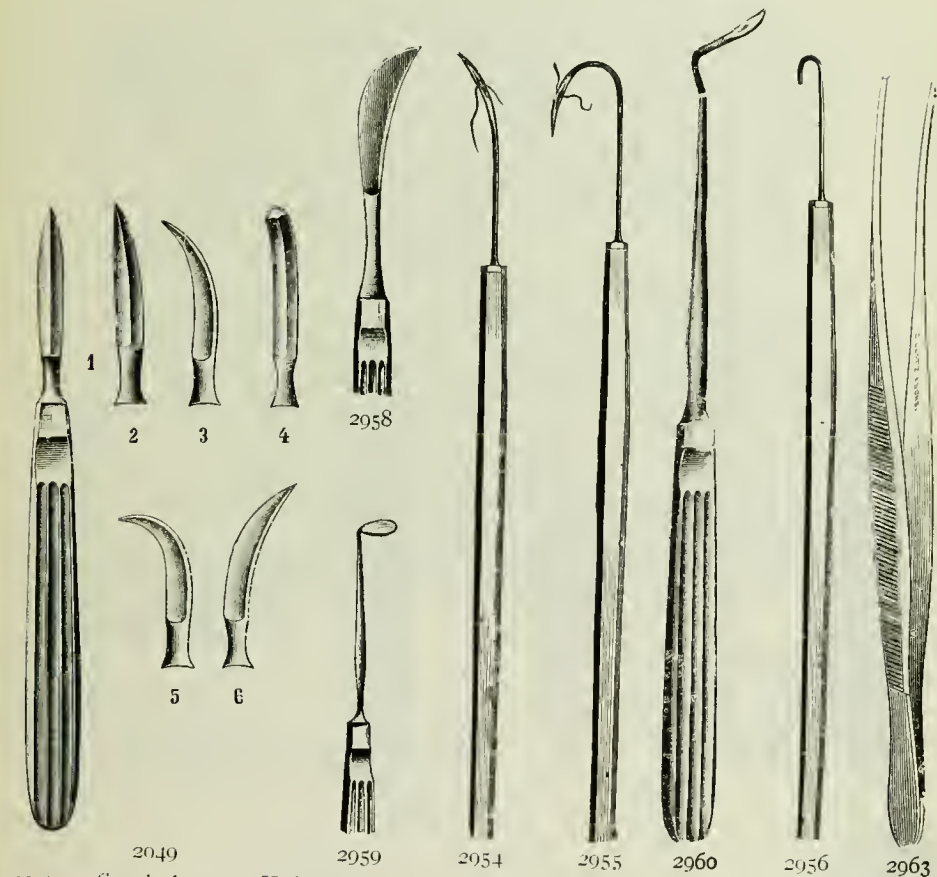


2942

2934.*	Mouth Gag,	Denhardt's improved, ratchet catch, lead filled tips . .	\$2 25
2936.*	"	Mason's improved, soft rubber tips	3 50
2938.*	"	Whitehead's, with adjustable tongue depressor	6 50
2938a.	"	" " " without	5 00
2938b.	"	" " " child size	5 00
9400.	"	Murdoch's, all steel	2 50
9401.*	"	Stubbs' modified Murdoch's	3 00
9402.*	"	Pynchon-Ferguson's, fibre tips	6 50
9403.*	"	Ferguson's improved (see illustration on page 257)	3 50
9404.	"	Luer's	2 25
9405.	"	Wingrave's	2 25
9408.*	"	Doyen's	3 00
9409.	"	Jansen's modified Doyen's	5 25
9410.	"	and Tongue Depressor combined, Sewall's, with three blades	7 50
2940.	Lockjaw or Oral Dilator, Gross', steel		4 50
2942.*	" " " Screw, hard rubber		60
2943.	Finger Protector, Langenbeck's	plain, 75c.; jointed,	1 25

*All instruments illustrated are designated by a *.*

Mouth and Throat Instruments.
STAPHYLORRHAPHY AND PLASTIC INSTRUMENTS.

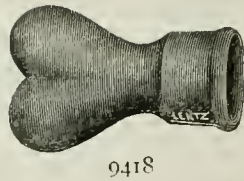
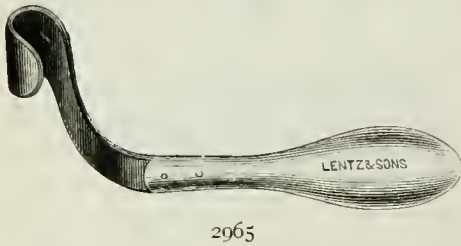
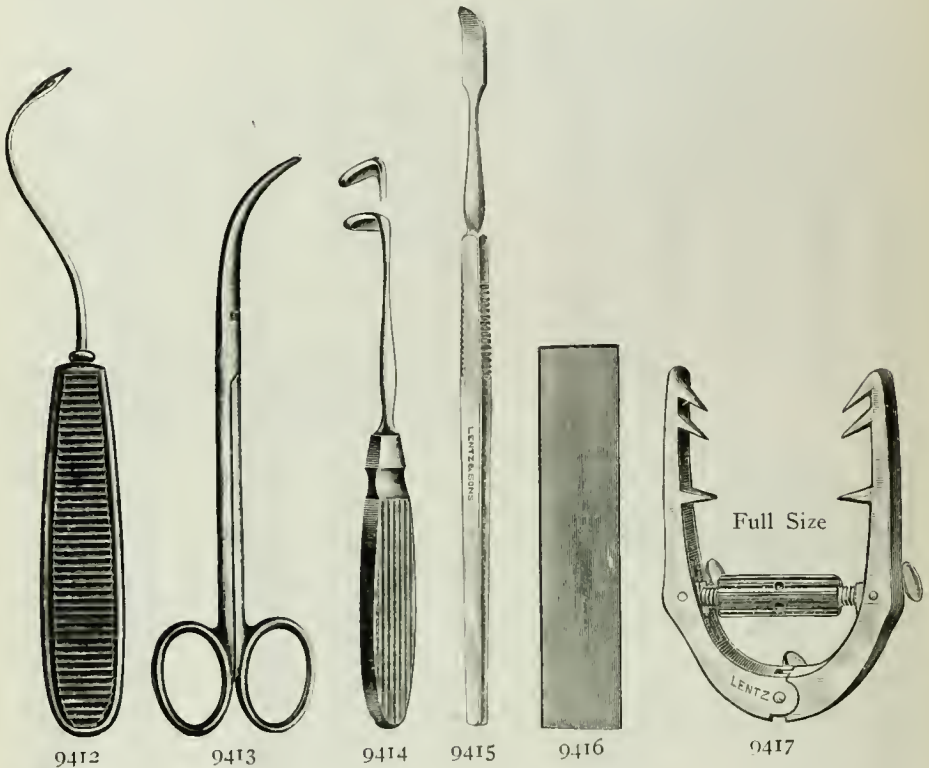


2047.	Staphylotomy Knife, curved on flat, with long handle, right and left,	each	\$2 00
2948.	" " " " " " " " " double edge,		
2949.*	" " Langenbeck's, (1) double edge, straight,	sharp pointed	2 25
	" " " (2) " " curved,	sharp pointed	2 00
	" " " (4) " " probe pointed .		2 25
	" " " (3) concave " slightly curved		1 75
	" " " (5) " " full		1 75
	" " " (6) convex " slightly		1 75
2958.*	Whitehead's, gum knife		1 25
2959.*	" " " hoe shaped .		1 35
2959a.	" " " paring knife, right and left	each	1 50
2954.*	Needle, Updegraff's, half curved.		1 25
2955.*	" " " full " "		1 25
2960.*	" " Whitehead's, spiral		1 50
2961.	" " Durham's, right and left	each	1 50
2956.*	" " Hook, Updegraff's, blunt		1 25
2962.	Seizing Forceps, Langenbeck's, cross-action, knee bent points . .		2 50
2963.*	" " Brophy's, long, with one and two teeth		2 00
2964.	Wire Twisting Forceps, long, with slide catch		3 00
2964a.	Maxillary Compression Forceps, Logan's		5 50

*All instruments illustrated are designated by a *.*

Mouth and Throat Instruments.

STAPHYLORRHAPHY INSTRUMENTS.

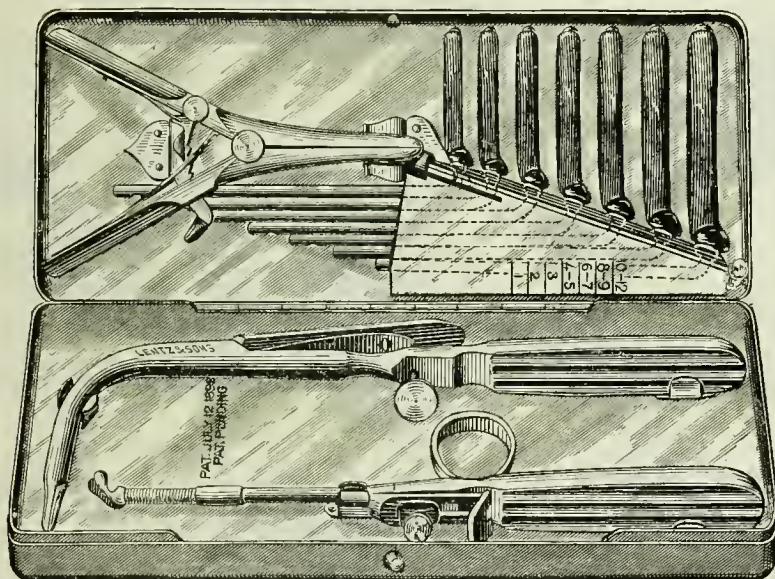


- 9412.* Bone Needle, Brophy's, right and left each \$1 75
- 9413.* Gum Scissors. " curved on flat I 75
- 9413a. Tissue Scarifier. " right and left each I 50
- 9414.* Periosteal Elevator, Brophy's, narrow and wide " I 25
- 9415.* " " M. H. Cryer's I 50
- 9416.* Lead Strip, for plates as used by Brophy 10
- 9417.* Cleft Palate Clamp, Hammond's . set of three sizes, \$12 00; each 4 50
- 9418.* " " Nipple and Shield I 00
- 2965.* Cheek Retractor, Luer's, metal, right and left each I 50
- 2966. " " Brophy's-Luer's, for either side I 50
- 2966a. " " wire, plain 50

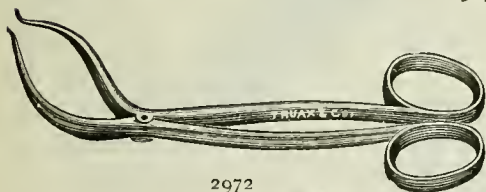
All instruments illustrated are designated by a *

Mouth and Throat Instruments.

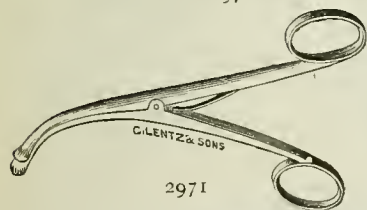
INTUBATION AND TRACHEA INSTRUMENTS.



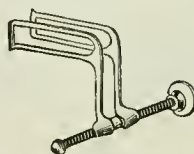
2967



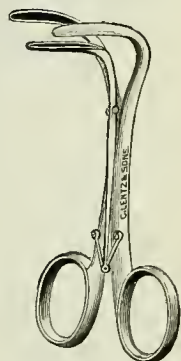
2972



2971



2973



2970

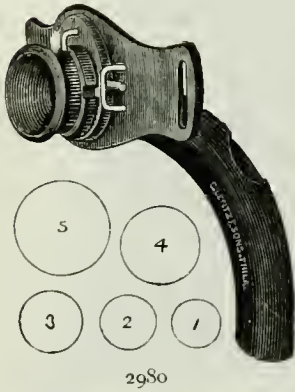


2974

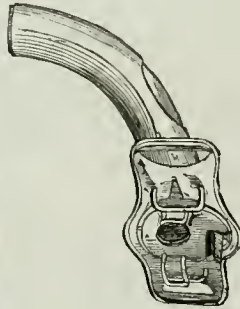
2967.*	Intubation Set, O'Dwyer's improved, with 7 hard rubber, metal-lined tubes, in metal case	20 00
2968.*	" " " same as above, with Dillon Brown's modified tubes and extractor, in metal case	22 00
2969.	" Tubes, O'Dwyer's, hard rubber, metal lined, any size each	1 75
2970.*	Trachea Dilator, Delaborde's, trivalve	3 75
2971.*	" " Trousseau's	1 75
2972.*	" " Otis'	2 00
2973.*	" " Golding-Bird's	3 50
2974.*	Tracheotomy Hook, sharp, with groove	1 25
2975.	" Retractor, Pileher's, double prong, blunt	1 00
2976.	" " sharp or blunt, two prong, \$1 00; three prong, \$1 10	1 20
2977.	" " flat, blunt	1 00
2978.	" Scalpel, sharp or probe pointed	1 25
2979.	" Director, Wharton's	75

Mouth and Throat Instruments.

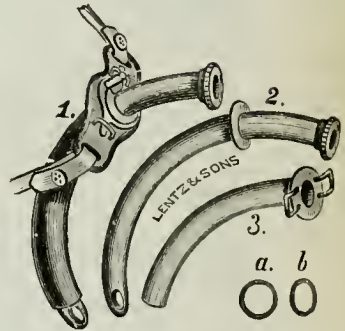
TRACHEA CANULAE.



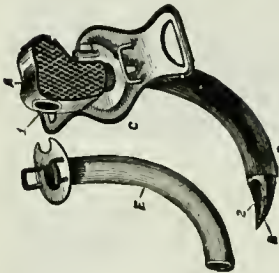
2980



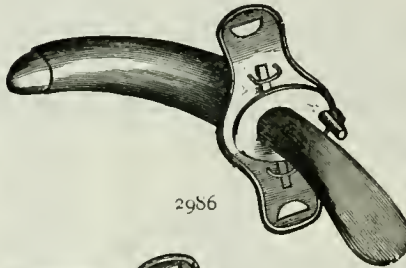
2981-2982



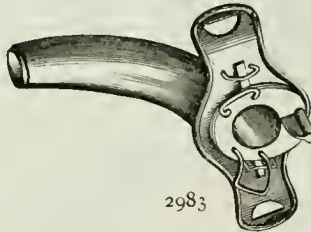
2984-2985



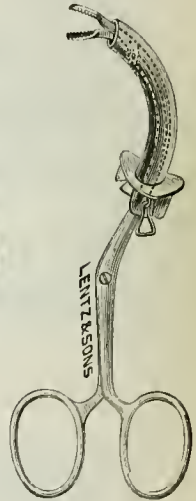
2991



2986



2983

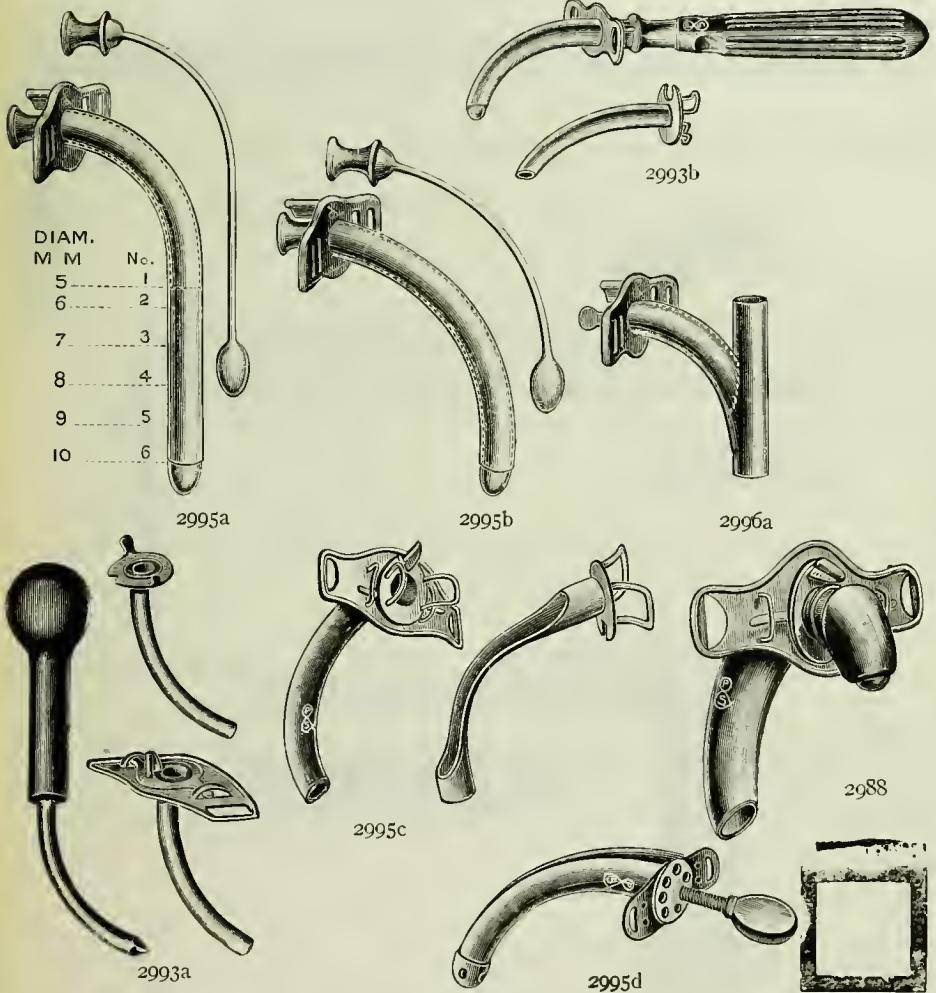


2994

2980.*	Trachea Tube, Luer's, double, hard rubber, five sizes	each	\$0 90
2981.*	" " " " " German silver, plated, five sizes	"	2 75
2982.*	" " " " " silver, five sizes	\$4 00 to	6 00
2983.*	" " " " " aluminum, five sizes	each	1 75
2984.*	" " " " " Cohen's, plated, with hollow obturator		4 00
2985.*	" " " " " silver, " " " " "		6 00
2986.*	" " " " " double, with solid pilot, plated		3 75
2987.*	" " " " " Pilot only, hollow or solid, plated		1 00
2988.*	" " " " " Elsberg's, double, with valve, plated		5 00
2989.*	" " " " " Johnson's, double, with spiral canula and pilot, plated		5 00
2990.*	" " " " " double, German silver, plated, and extra tube with valve, for after-treatment		5 00
2991.*	Tracheotome, Hank's, plated		5 50
2992.*	" " " " " Pitha's, plated		2 50
2993.*	" " " " " Langenbeck's, plated		3 50
2993a.*	" " " " " Aluminum Canula (see illustration page 263)		3 25
2993b.*	" " " " " Rozzoli's (see illustration page 263)		6 00
2994.*	Trachea Tube Forceps, Collin's, for removing blood or mucus from canula		4 00
2994a.	" " " " " Stockloew's, for removing mucus from canula		3 00

Mouth and Throat Instruments.

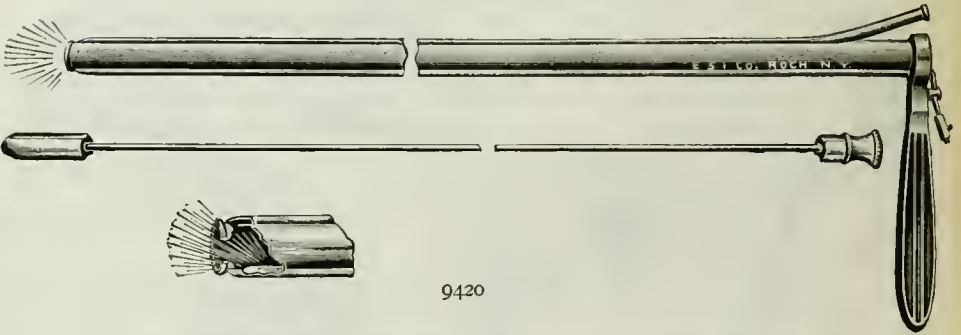
TRACHEA CANULAE.



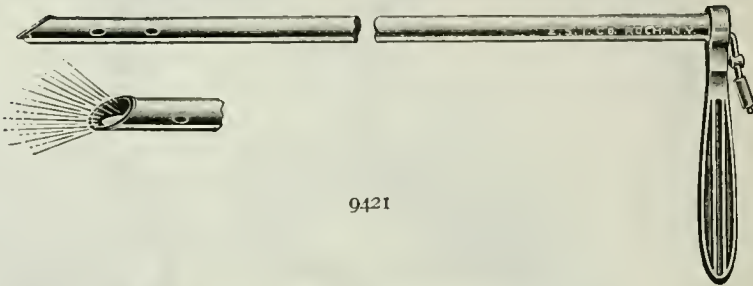
- 2995.* Trachea Tube, Chevalier Jackson's:
 - a.* Cane shape, with pilot; small sizes, 1-2-3, plated, each, \$4 00; silver each \$5 25
 - Cane shape, with pilot; large sizes, 4-5-6, plated, each, \$4 25; silver each 6 25
 - b.* Full curve, with pilot; small sizes, 1-2-3, plated, each, \$3 75; silver each 5 00
 - Full curve, with pilot; large sizes, 4-5-6, plated, each, \$4 00; silver each 6 00
- 2995c.* Trachea Tube, Parker's, German silver, plated, each, \$3 25; silver 5 00
- 2995d.* " " Roswell Park's, German silver, plated, each, \$4 25; silver each 5 50
- 2996a.* Laryngostomy Tube, C. Jackson's; small sizes, 1-2-3, plated, each, \$3 50; silver, each, \$5 25; large sizes, 4-5-6, plated, each, \$3 75; silver each 5 50
- 2996b. Intracheal Canula, with dilating bulb, Dorrance's, for use in artificial respiration, sizes 15 to 30 Fr. each 3 50
 Consists of a soft rubber tube 15 inches long, having a dilatable bulb surrounding the tube about 1½ inch from distal end.

Mouth and Throat Instruments.

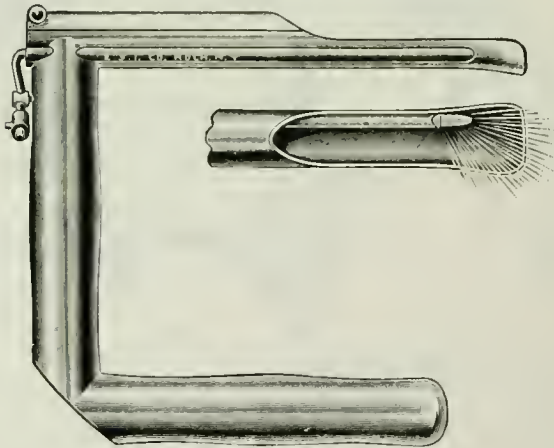
DR. CHEVALIER JACKSON'S EXAMINING AND OPERATING INSTRUMENTS.



9420



9421



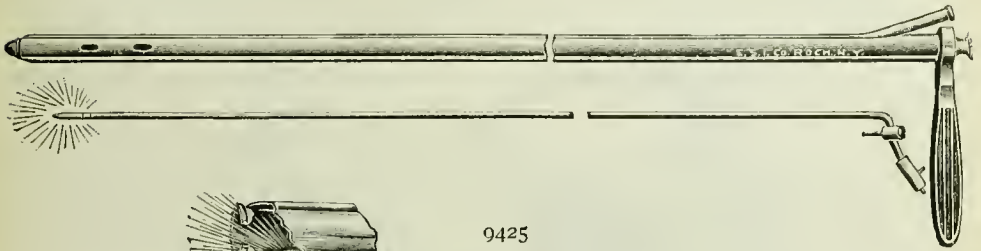
9423

- 9420.* Esophagoscope, with auxiliary drainage tube;
 - 10 m.m. diam., 53 c.m. long \$15 00
 - 7 " " 45 " " 11 00
- 9421.* Bronchoscope, slanted ends, without obturator and without auxiliary drainage tube;
 - 7 m.m. diam., 40 c.m. long 11 00
 - 5 " " 30 " " 9 00
- 9422. Tracheoscope, without auxiliary drainage tube;
 - 7 m.m. diam., 20 c.m. long 9 00
 - 5 " " 14 " " 6 00
- 9423.* Separable or Slide Speculum; 12 m.m. diam., 17 c.m. long 18 00

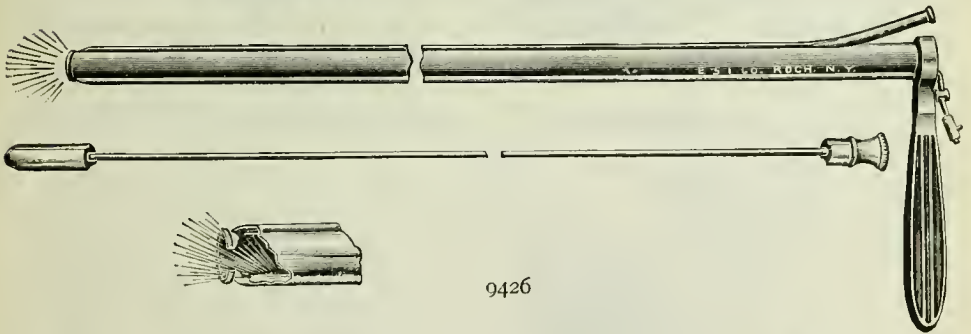
All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

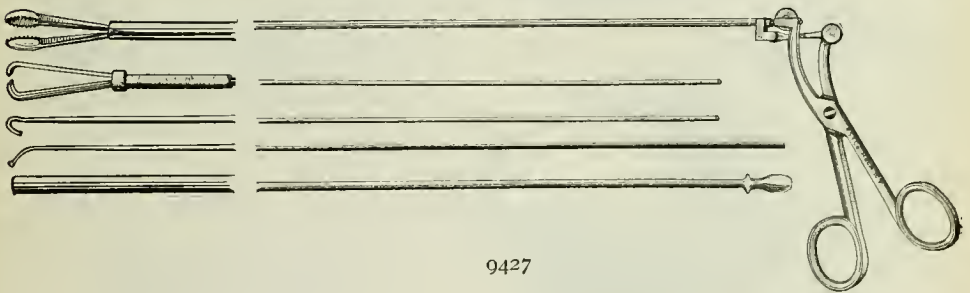
DR. CHEVALIER JACKSON'S EXAMINING AND OPERATING INSTRUMENTS.



9425



9426



9427

- 9425.* Bronchoscope, for cases of excessive secretion; with auxiliary drainage tube;
- | | |
|--|---------|
| 7 mm. diam., 45 cm. long | \$11 00 |
| 5 " " 45 " " | 10 00 |
| 5 " " 30 " " | 9 00 |
| Set of above three sizes, with three extra lamps | 28 00 |
- 9426.* Gastroscope, for all ordinary cases; 10 mm. diam., 70 cm. long 21 00
 For extreme cases of gastroptosis; 10 mm. diam., 80 cm. long 24 00
 Set of above two sizes, with two extra lamps 42 00
- 9427.* Auxiliary Instruments for gastroscopy;
 Forceps, 85 cm., \$7 00; Cotton Carrier, 85 cm., \$1 75; Hook, 85 cm., \$1 25; Probe, 85 cm., \$1 25; Drainage Tube, 85 cm., \$2 00; Scissor Handle, interchangeable, \$5 00; Set-Screw Handle, interchangeable, \$1 00.
 Complete Set 18 00
9428. Instruments for Demonstrating on Cadaver or Dog; set consisting of Bronchoscope, 9 mm. x 40 cm., without drainage; Esophagoscope, 10 mm. x 53 cm., with drainage; Separable or Slide Speculum; Forceps, 60 cm., with handle; Cotton Carrier, together with one each extra lamp 50 00

*All instruments illustrated are designated by a *.*

Mouth and Throat Instruments.

ATOMIZERS.

2997.* Lentz's "Perfect" Atomizers.

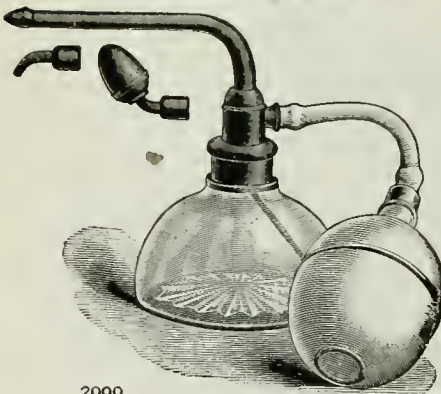
No. 1.



No. 2.



No. 3.



2999

These illustrations represent our ATOMIZERS, which for SIMPLICITY and DURABILITY have no superior. Every one acquainted with the use of the various forms will readily see the advantages possessed by this instrument, as in the majority of Atomizers the Metal Cap is secured to the bottle with cement, which is soon acted upon by the solutions used, causing the cap to become loose and ruining them for spraying purposes.

In the "PERFECT" ATOMIZER the METAL CAP and TUBE are made in ONE PIECE, and nickel-plated, the former having a thread cut upon the inside which screws down securely upon a corresponding thread blown in the neck of the bottle, the whole being made air-tight by a soft rubber washer secured on the inside of the cap. The BOTTLES are round, and have a capacity of three ounces. The TUBES are 3-16 inch in diameter, and 5½ inches long, made in THREE forms, giving a *straight, upward and downward* spray. With the wire accompanying each Atomizer, the small opening in the end of the tube can be easily kept free.

Our Pure Black Gum Bulb is not so easily soiled and possesses much greater durability than the White Bulb usually furnished. It is made with a neck at each end which allows the Nipple and Valve to be securely fastened and adjusted, thereby giving a *continuous spray*.

This well-known Standard Atomizer is especially adapted for medicinal treatment of the Throat, and Nasal Passages, for spraying either watery or light oily solutions.

Either style Tube, with Bottle, Bulb, extra Washer and Wire, packed in neat, strong pasteboard box ;

	patients, \$1 10;	physicians \$0 95
		per dozen 10 00
.998.	Metal Atomizer tube only	70
	Bottle only	10
	Bulb with tubing only . .	50

2999.* "Magic" Atomizer, with hard rubber tube and three screw tips, for spraying oil or liquid of every description; bottle has a wide base, to avoid upsetting ;

patients, 90c. ; physicians 75

3000. "Magic" Atomizer, same as figure 2999, hut with straight tip only ;

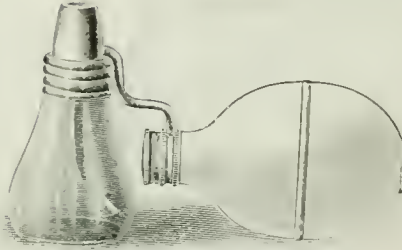
patients, 60c. ; physicians 50

Postage for mailing any of the above Atomizers, 10c.

Special prices quoted on all Atomizers in quantities of half dozen and more.

Mouth and Throat Instruments.

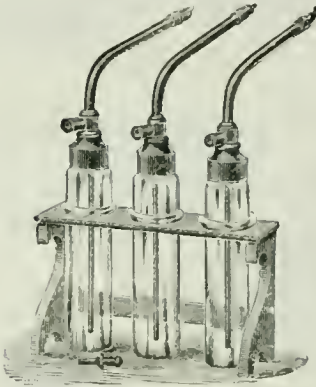
ATOMIZERS.



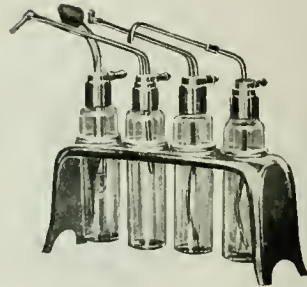
3011



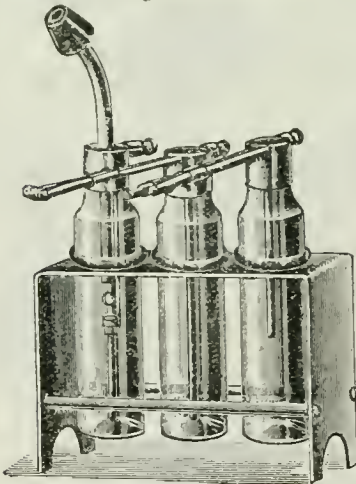
3012



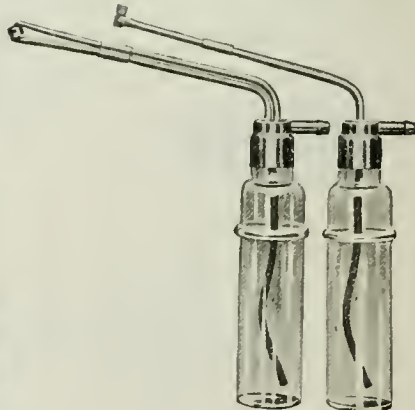
3016



3014



3013

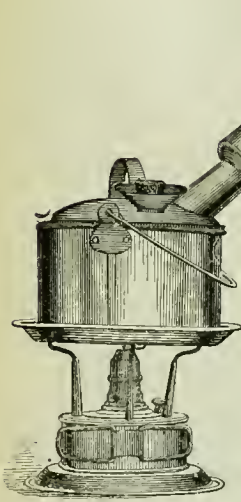


3017

3011.*	Atomizer, "Magic" No. 256, for vaseline, alboline or other oils . . .	\$0 65
3012.*	2, " oil or water	65
3013.*	Nebulizer and Powder Blower, De Vilbiss', set of three in stand	3 00
3014.*	Atomizers, " " " " " " " " four " " "	4 50
3015.*	" " " " " " " " six " " "	6 75
3016.*	" hard rubber with metal lined tips . . " " three " "	2 75
3017.*	" De Vilbiss', No. 53. metal tube, with rubber inner tube, screw top	each 1 00

*All instruments illustrated are designated by a *.*

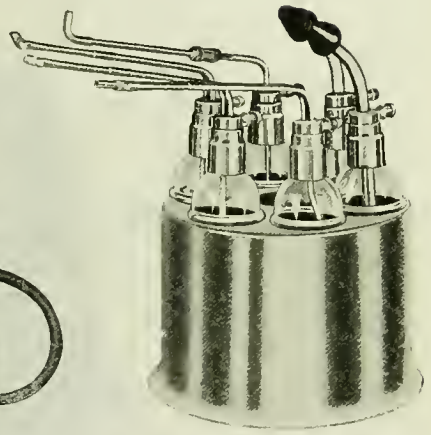
Mouth and Throat Instruments.
ATOMIZERS.



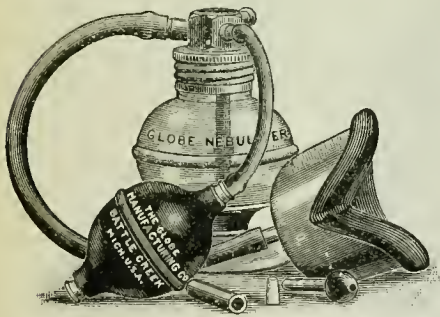
3023



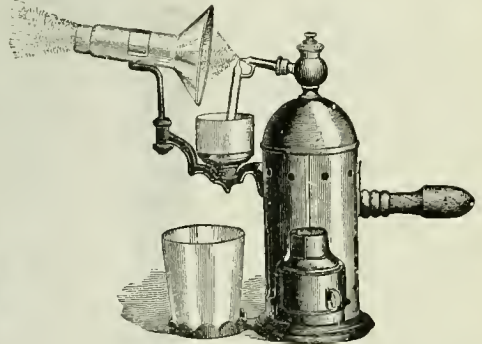
3024



3019b



3025

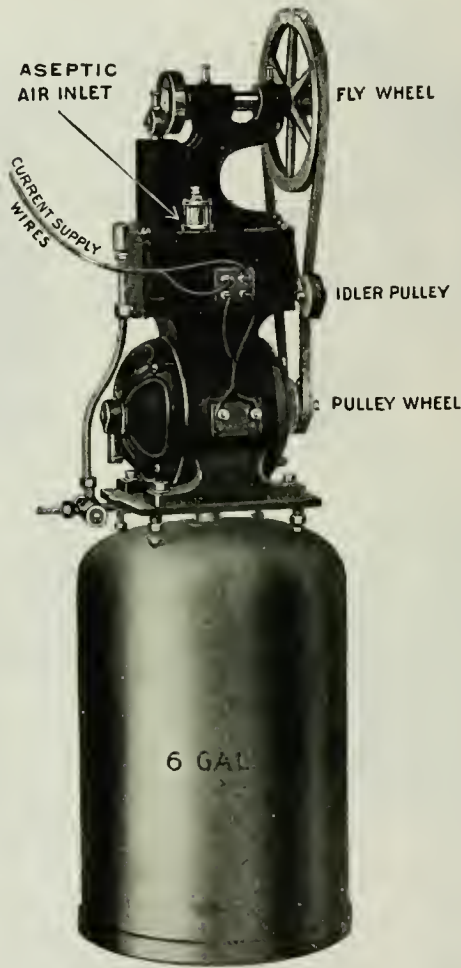


3031

3019a.	Spray-Bottle Heater, De Vilbiss', open, six or seven spaces	\$2 00
3019b.*	" " " " closed, " " " " " "	4 00
3020.	" " " " nickel-plated water chamber with three spaces for bottles, on sheet-iron stand, with alcohol lamp or Bunsen burner. Size, 6 x 2 1/4 in., 7 1/2 in. high	3 50
3021.	" " " " with six spaces for bottles and larger space in centre for heating instruments; valve at side for drawing hot water; alcohol lamp or Bunsen burner. Size, 6 in. diam., 7 1/2 in. high	5 50
3023.*	Holt's Croup Kettle and Medicator with flame regulating alcohol lamp	4 00
3024.*	Nebulizer, De Vilbiss' No. 49, with nose and mouth tips and hand bulb	1 00
3025.*	" "Globe" No. 6, with nose and mouth tips, mask and hand bulb	5 00
3029.	" " "Universal" No. 7, with nose and mouth tips and hand bulb	2 50
3026.	" " "No. 5, small size, with nose and mouth tips and hand bulb	1 50
3028.	" "Glycol." C. & S. No. 170, with hand bulb	80
3031.*	Steam Atomizer, nickel-plated, with two glass spray tubes	4 00
3035.	" " "Spray Tube, glass	20
3036.	" " "Face Shield, glass	25
3037.	" " "Medicine Cup, "	10

All instruments illustrated are designated by a *

Mouth and Throat Instruments.
COMPRESSED AIR APPARATUS—ELECTRIC.

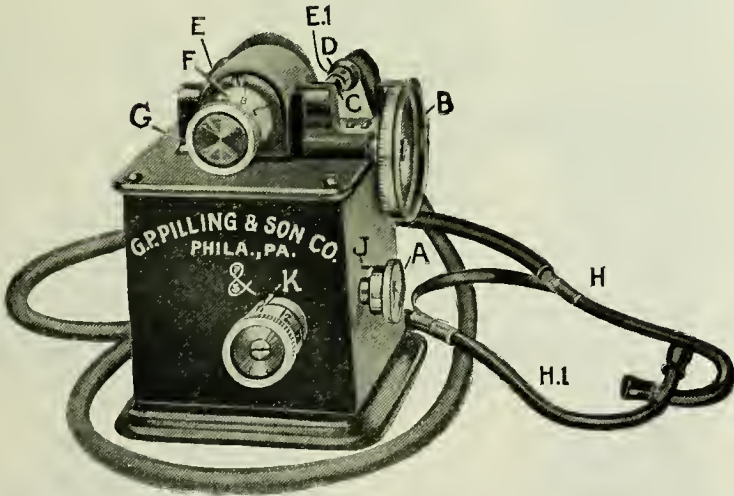


The Pelton & Crane Co.'s Automatic Compressor Unit is a complete outfit in itself, as the illustration shows, to be operated on the electric lighting current. The entire apparatus is made of the best material and workmanship to insure service, and is entirely automatic in its action and practically noiseless. Can be set to cut off at any pressure desired. The motor and pump are mounted on the top of a 6 gallon nickel-plated seamless steel tank. Nos. 1 and 10 outfits will furnish 800 cubic inches of air per minute; Nos. 121 and 123 will give 1,600 cubic inches per minute.

No. 1	Electric Compressor for 110 volts	direct current	\$85 00
" 10	" " " " "	alternating current, any cycle	100 00
" 121	" " " " "	direct current	100 00
" 123	" " " " "	alternating current, any cycle	125 00
5 ft. silk covered tubing and cut-off, add			2 50
Nos. 121 or 123 outfits, if desired without tank, deduct from prices			12 00
A telescopic fiber case can be furnished, if desired for Nos. 1 or 10 outfits, black, \$5 00; or white enamel			7 50

For further particulars write for pamphlet.

Audiometer for Testing the Hearing.



The Pilling-McCallie Audiometer \$50 00

This is a simple and practical instrument for testing the acuteness of hearing, and will be found invaluable to the physician in testing scientifically the various degrees of deafness.

It is simple, durable, accurate and easy of operation; it will test the hearing of the most acute ear, can be used in the office or schoolroom, and where there is considerable noise if necessary; will test both ears at once or either ear separately.

It has no batteries or delicate parts to get out of order. Every instrument is standardized by an instrument kept for the purpose.

No. 1—The operation of this machine is based upon the fundamental facts that constant sounds of a low intensity can be confined in a box, and that when an opening is made in this box the loudness of the sound passing through this opening will increase when the opening increases.

No. 2—The structure of the instrument consists essentially of a device for making a constant sound within a practically sound-proof box, having an opening that may be varied, and tubes to carry the sound from the opening to the ears. Full descriptive pamphlet will be sent upon application.

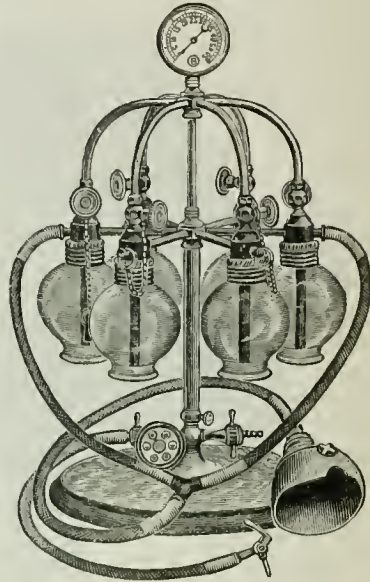
*All articles illustrated are designated by a *.*

Mouth and Throat Instruments.

COMPRESSED AIR APPARATUS.†



3038



3039

- 3038.* Compressed-Air Outfit, Boekel's; combining Nebulizer, Tank and round glass table, with Vibrator, Face-Mask, Nose-Piece, Cutoff and Tubing for Nebula, and Spray-Tube:
 With Double Lever Pump (Fig. 3078) \$80 00
 With T Pump (Fig. 3077) 75 00

We present herewith the latest design of Nebulizer in combination with a Seamless Steel Air-Receiver. This combination forms a most attractive, practical and efficient apparatus. It is an important and desirable addition to any physician's office.

The Spray Tube has been tested thoroughly in actual practice and it has proved to deliver, at a given pressure of air, more than five times the volume of the most perfect vapor than any other vapor tube manufactured.

The Seamless Receiver is finely finished in aluminum bronze with a neat border painted near the top and bottom. It is 12 inches in diameter and 30 inches high, provided with pressure gauge, inlet and outlet valves, and is thoroughly tested to five hundred pounds of pressure. It is mounted on a gold finished ornamental base which gives the whole apparatus a firm stand. The total height is 50 inches.

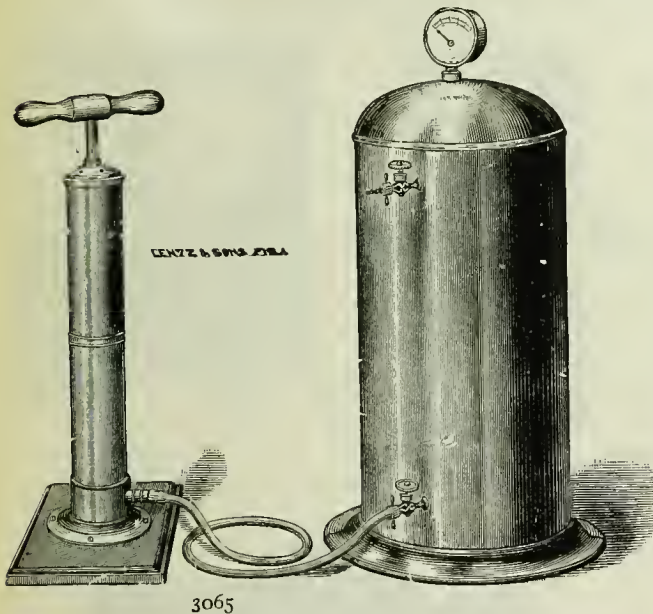
Between the receiver and the nebulizer a circular table or shelf 20 inches in diameter is supplied, consisting of a highly polished round glass plate with a nickel plated rim.

- 3039.* Nebulizer, Boekel's; set of six flasks with Pressure Gauge, Mouth-piece, Face-Mask. Tubing and Cutoff, mounted on Oak Base; without air-receiver or pump \$37 50

*All instruments illustrated are designated by a *.*

Mouth and Throat Instruments.

COMPRESSED-AIR APPARATUS.

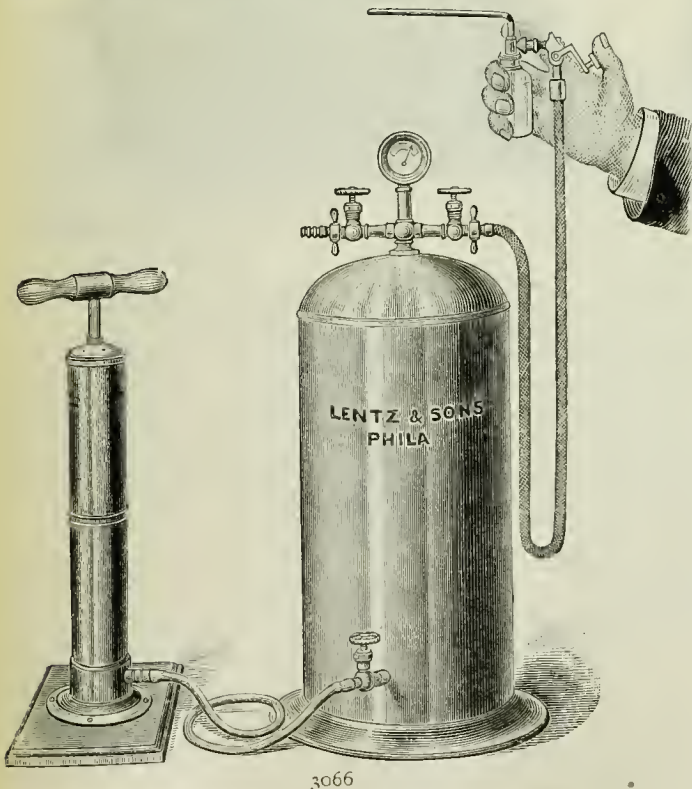


3065.* Outfit complete, including 8 feet of silk-covered tubing, automatic cut-off, and set of 3 hard-rubber atomizers, with rack . \$22 50

This illustration represents our most popular outfit.

The receiver is 10 by 22 inches; extreme height, 26 inches; provided with an accurate pressure gauge; it is absolutely air-tight, and will stand a maximum pressure of 50 lbs.

Both Receiver and Pump are well made and nickel-plated.

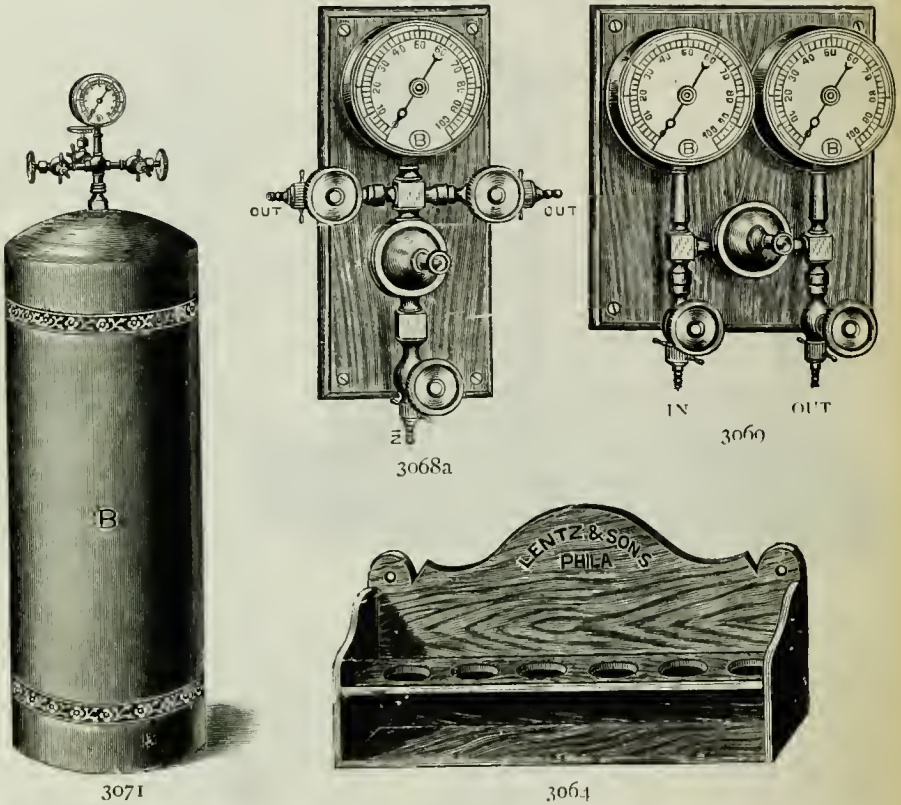


3066.* Outfit complete, with 13 feet of silk-covered tubing, 2 automatic cut-offs and set of 3 hard-rubber atomizers . \$26 00

This outfit is practically the same as figure 3065, with the exception of having two outlet valves on receiver and two 5 foot silk-covered tubes, with cut-offs, thus permitting the use of an atomizer and a vaporizer at the same time.

All articles illustrated are designated by a *.

Mouth and Throat Instruments.
COMPRESSED-AIR RECEIVERS AND REGULATORS.



- 3071.* Air Receiver, made of seamless steel, aluminum-bronze finish, 36 inches high and 12 inches in diameter; the extreme height from base to top of gauge is 44 inches. It is provided with a *three-valve* fitting and a gauge registering 100 pounds \$27 50
3072. “ “ same as fig. 3071, with the exception of having a *double-valve* fitting at top and the *inlet valve* near the bottom 27 50
- These Receivers are thoroughly tested and guaranteed. It is impossible for them to leak or explode, even when under very high pressure.
- Eight feet of silk-covered tubing and one cut-off are included with each receiver at above prices. No pump included.
3068. Pressure Regulator, with one gauge, one inlet and one outlet . . 10 00
- 3068a.* “ “ “ “ “ “ “ “ two outlets . . 12 00
- 3069.* “ “ with two gauges, one inlet and one outlet . . 15 00
- 3069a. “ “ “ “ “ “ “ “ two outlets . . 16 50
- 3064.* Wall Rack, oak or walnut, to hold six “Perfect” atomizers, fig. 2997 . 1 35

*All instruments illustrated are designated by a *.*

Mouth and Throat Instruments.

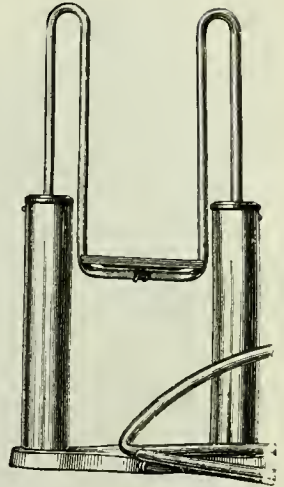
AIR PUMPS.



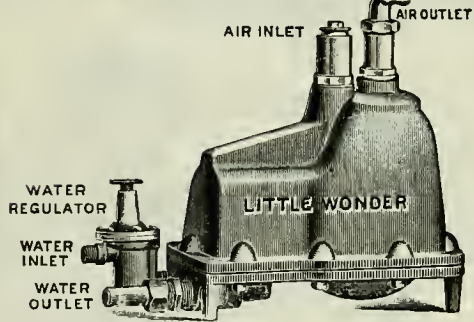
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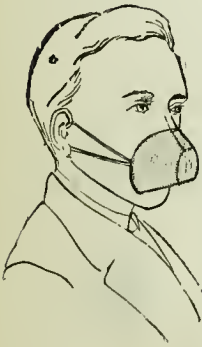


3094

- | | | |
|--------|---|--------|
| 3077.* | T Pump, nickel-plated metal cylinder 16 inches long and 2 1/8 inches in diameter, mounted on walnut base | \$4 50 |
| 3078.* | Double-Action Lever Pump, stands 49 inches high. It is very powerful and requires but small exertion of strength. The cylinders are nickel-plated, the valves brass. Neatly japanned frame | 12 50 |
| 3079.* | Foot Pump, portable, small, can be used instead of hand bulb; attachable to any make of nebulizer or atomizer | 5 00 |
| 3093. | Air Pump, Hydraulic, "The Monitor." Has a large capacity, with a very quick action, and is especially adapted for use in localities having very muddy water. It is 12 1/2 inches in height, gives same pressure in air as water pressure used to operate it | 27 00 |
| 3094.* | " " " " "The Little Wonder." Single-acting but powerful in its operation; is constructed entirely of metal, having no leather valves to wear out, therefore making it perfectly reliable and durable. This compressor is intended for low-water pressure | 25 00 |
| 3095. | " " " " "The Compound Eureka." Very powerful in its operation, giving two pounds of air pressure for every pound of water pressure, and is especially designed for premises not having sufficient water pressure. In brass, \$40 00; nickel-plated | 45 00 |

Mouth and Throat Instruments.

RESPIRATORS AND INHALERS.



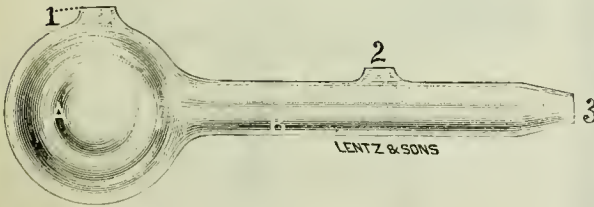
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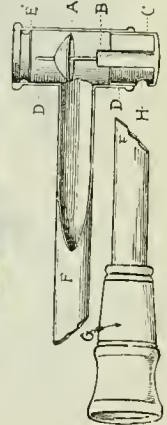
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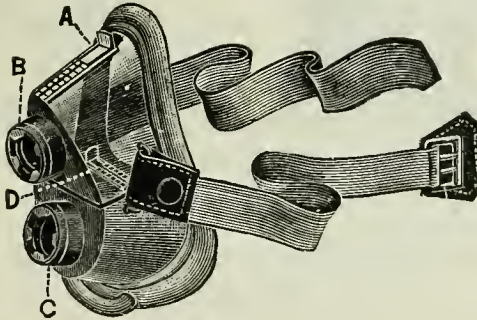
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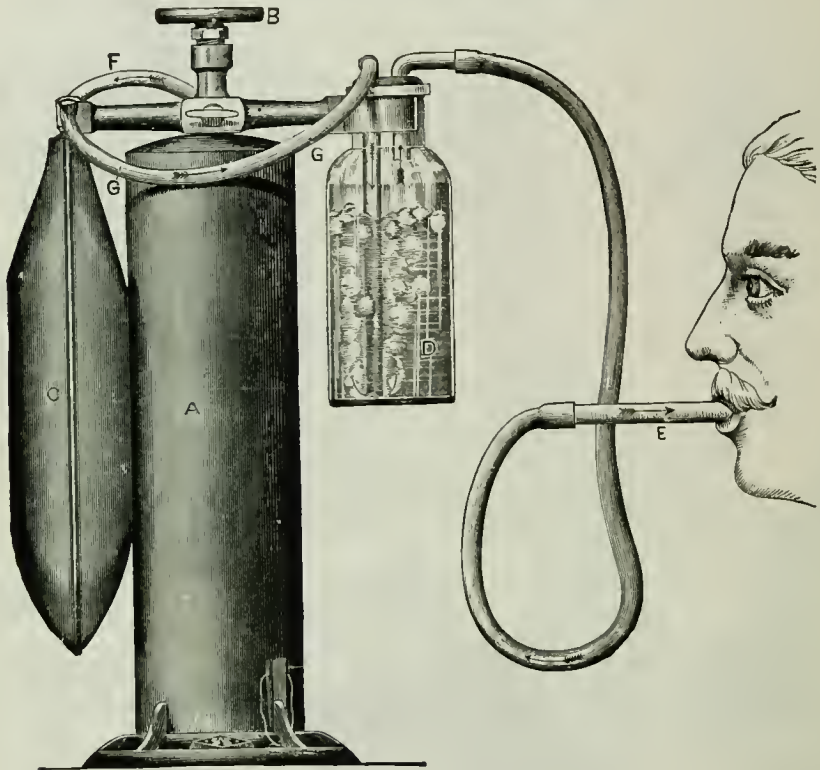
3108

- 3100.* Respirator, Robinson's, zinc, with sponge (Creosote Inhaler) \$0 35
- 3102.* " Cover's, rubber; for mouth and nose, protecting from dust, poisonous gases and smoke; with automatic valve at side for exhalation patients, \$2 00; physicians 1 70
- 3103.* " Cover's, metal, for mouth and nose; " 1 50; " 1 25
- 3104. " for mouth, silk-covered " 1 25; " 1 00
- 3105. " Tyndale's, hard rubber, for mouth and nose; patients, \$3 00; physicians 2 50
- 3106.* Inhaler, Evans', glass, pocket size " 60c.; " 45
- 3107.* " Robinson's, nasal, hard rubber " 50c.; " 40
- 3108.* Pulmonary Suction Mask, Kuhn's, celluloid, with inflatable rubber rim, three sizes each 8 00
- 3109.* Breathing Tube, Fitch's, for exercising the breathing muscles; plated . . . 1 00
- 3110. " Wigmore's improved; plated 75
- 3111.* Anti-Snoring Apparatus, keeps the mouth closed during sleep; two sizes, for adults and children patients, \$1 00; physicians 75

All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

APPARATUS FOR THE THERAPEUTIC ADMINISTRATION OF OXYGEN.



3112-3113

Outfit No. 1.

3112.*	Inhalation Apparatus	\$5 00
	Cylinder, 40 gallons' capacity	6 00
	40 gallons Gas, either pure Oxygen or mixed Oxygen and Nitrous Oxide	2 00
	Complete Apparatus, Cylinder, and 40 gallons Gas	<u>\$13 00</u>

Outfit No. 2.

3113.*	Inhalation Apparatus	\$ 5 00
	Cylinder, 100 gallons' capacity	12 00
	100 gallons Gas, either pure or mixed.	5 00
	Complete Apparatus, Cylinder, and 100 gallons Gas	<u>\$22 00</u>
3114.	Base for cylinders, as shown in cut, extra	25

When empty cylinders are returned to us, and not ordered to be re-filled, we credit customer with price of cylinder.

When returning cylinders, expressage must be prepaid in all cases.

We are prepared to supply pure Oxygen Gas, or a mixture of Oxygen and Nitrous Oxide in definite proportions respectively of 20 per cent. and 40 per cent. of Nitrous Oxide.

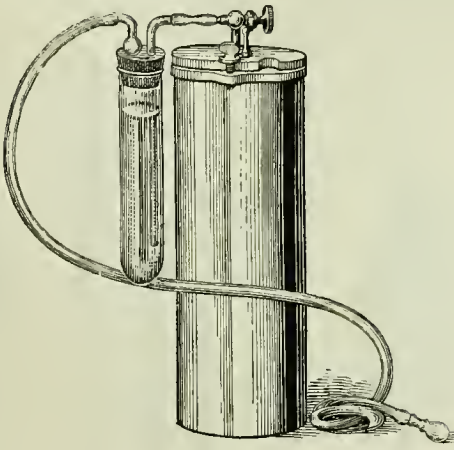
Either Gas is furnished in cylinders containing 40 or 100 gallons.

Cylinders containing pure Oxygen are painted *red*; those containing pure Nitrous Oxide Gas are painted *black*. Cylinders containing twenty per cent. of Nitrous Oxide are painted *black* one-fifth of their length, the remainder *red*; those containing forty per cent. of Nitrous Oxide are painted *black* two-fifths of their length, the remainder *red*.

*All articles illustrated are designated by a *.*

Mouth and Throat Instruments.

APPARATUS FOR THE THERAPEUTIC ADMINISTRATION OF OXYGEN.



3116



3117

3116.* Oxone Generator; a portable apparatus for the instant production of 100% pure oxygen gas. Complete set of water container, wash bottle, tubing, mouthpiece, together with four cartridges of oxone compound; all packed in a neat compact wooden case (total weight 4½ lbs.) \$20 00

3117.* Extra cartridges of oxone compound per dozen 4 80

The oxone generator is devised to furnish an always and instantly ready source of absolutely pure oxygen, so simple in operation that it can be used not alone by physicians and chemists, but may be entrusted safely to any intelligent layman.

Oxone is a compact compound of fused sodium peroxide, which upon contact with water generates oxygen gas. It will keep any length of time, and can be transported or stored without any danger of explosion or deterioration.

The oxone used in the portable oxone generator is packed in hermetically sealed tins (cartridges), which, as such, are introduced into the generator, the chemical therefore never being handled. With the needle valve closed the generator will remain in a partly discharged state for any length of time, ready to start in an instant. The cartridge does not deteriorate.

One cartridge produces at ordinary temperature on an average about 7 gallons of oxygen, a quantity usually sufficient for 2 to 3 inhalations. The completely charged apparatus, taking two cartridges, will therefore furnish from 14 to 15 gallons of gas.

Directions accompany each apparatus.

The fire departments of the following cities have endorsed the oxone generator; New York, Philadelphia, Pittsburgh, Johnstown, Harrisburg, Trenton, Atlantic City, &c.

The Cambria Steel Co., Johnstown, Pa., after exhaustive tests have adopted it as being the best apparatus for supplying oxygen for emergencies, and are using them in their extensive mines.

Also adopted by the Carnegie Steel Co. at their numerous plants.

Dr. H. R. Owen, chief surgeon of the Bureau of Fire and Police, Philadelphia, states:

"I believe the oxone generators will prove indispensable in the fire department."

Chas. A. Garverich, Esq., chief engineer Department of Fire, Harrisburg, Pa.

states:

"The oxone generators in use in the Fire Department have been very satisfactory, and I have no hesitation in recommending them to the various fire departments."

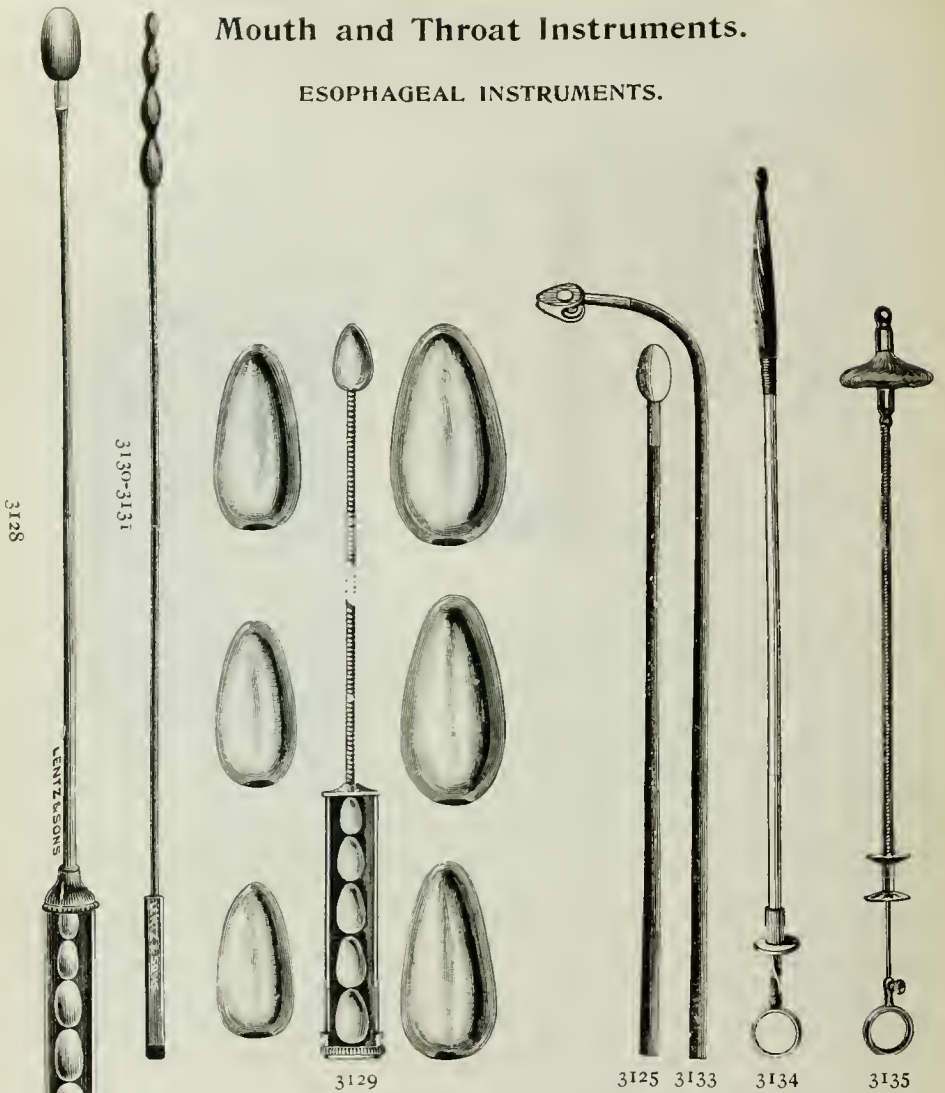
J. T. Beckwith, M.D., chief surgeon Fire and Police, Atlantic City, N. J., says:

"We have found the oxone generators invaluable. They are always ready for instant use in cases of drowning, asphyxia or shock."

*All articles illustrated are designated by a *.*

Mouth and Throat Instruments.

ESOPHAGEAL INSTRUMENTS.

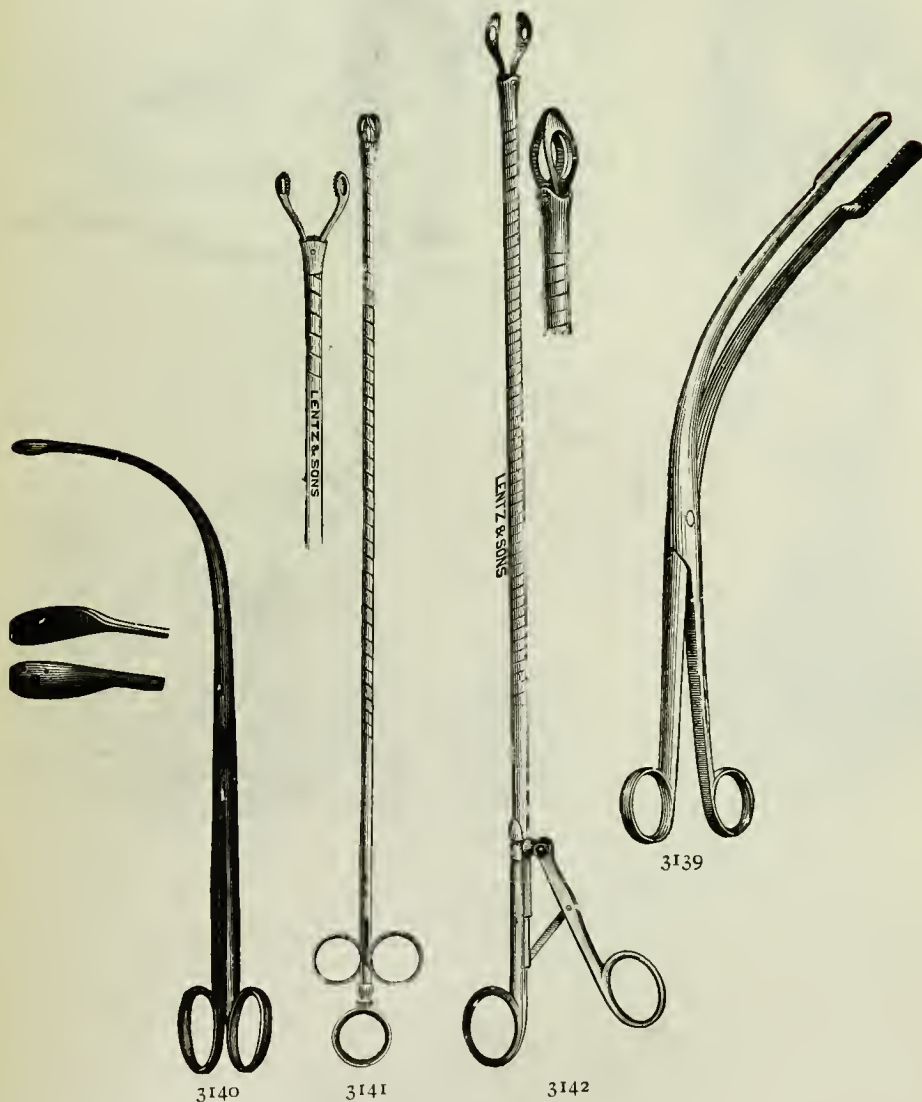


- | | | |
|--------|--|--------|
| 3125.* | Esophageal Bougie, one hard-rubber bulb, with whalebone stem | \$1 35 |
| 3126. | " " Bougies, set of six hard-rubber bulbs, " " | 3 00 |
| 3127. | " " " set of six aluminum bulbs, with whalebone stem and fine conical metal handle to hold bulbs. | 4 50 |
| 3128.* | Esophageal Bougies, set of six nickel-plated bulbs, with whalebone stem and cylindrical metal handle to hold bulbs | 3 25 |
| 3129.* | " " " same as fig. 3128, but with spiral-wire stem | 2 50 |
| 3130.* | " " " Cohen's, all whalebone, four sizes of round bulbs . . . | 2 50 |
| 3131.* | " " " four sizes of oval hard-rubber bulbs on whalebone stem | 2 50 |
| 3132. | " " " woven linen, cylindrical or olivary point, 5 sizes . each | 1 50 |
| 3133.* | Coin Catcher, metal, with metal stem | 1 75 |
| 3134.* | Bristle Probang, woven linen, covered, hard rubber tip, best quality . . . | 1 35 |
| 3135.* | " " " all metal, except the bristles, which can be easily renewed . . . | 1 25 |
| 3136. | Bristles, (for fig. 3135) | 25 |

Fig. 3129 shows actual sizes of bulbs usually furnished.

Mouth and Throat Instruments.

FOR THE REMOVAL OF FOREIGN BODIES.



3138.	Esophageal Forceps, plain	\$2 25
3139.*	“ “ Bond’s	2 50
3140.*	“ “ Fauvel’s	3 00
3141.*	“ “ spiral	3 75
3142.*	“ “ Dawson’s	6 00

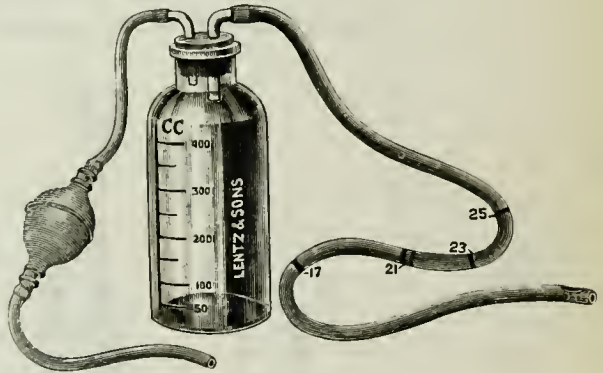
*All instruments illustrated are designated by a *.*

Mouth and Throat Instruments.

STOMACH AND FEEDING TUBES.



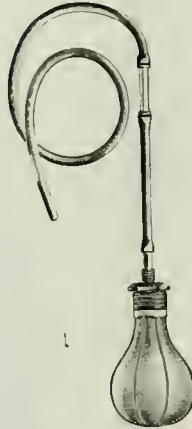
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3147



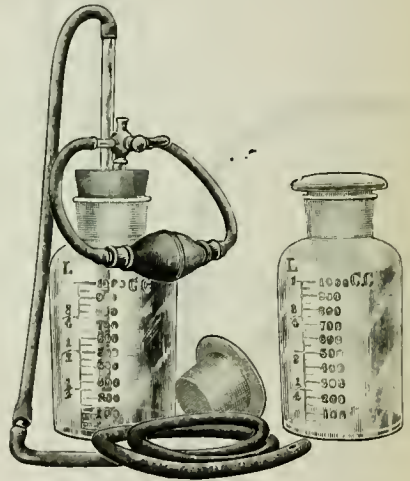
3150



3145b



3144



3146a

3143.*	Stomach Tube, soft rubber,	with funnel, 60 inches long	\$1 90
3144.*	" " " "	with bulb and funnel, 60 inches long	2 35
3144a.	" " " "	Chase's, 60 inches long	2 75
3145.	" " " "	without funnel or bulb, 60 inches long	1 50
3145a.	" " " "	Ewald's	1 75
3145b.*	" " " "	with 12 oz. resilient rubber bulb	4 50
3146.	" " " "	woven linen, gum elastic, funnel end	1 35
3146a.*	" " " "	Test Meal Set, Daland-Faught's	7 50
3147.*	" " " "	soft rubber, Stewart's, complete with bottle and bulb	5 00
3148.	" " " "	" " 60 inches long	2 40
3149.	" Douche, Tuerck's, double		2 25
3149a.	" " " "	for spraying all parts of stomach	1 75
3149b.	" Pump, Boas', with rubber tube and large rubber bulb		5 00
3151.	" " lever action, with stomach and rectal tubes, in case		13 50
3150.*	Nasal Feeding Tube, soft rubber, 30 inches long, size 20 French scale;	without funnel, \$1 00; with funnel	1 25
3151a.	Boas' Sieve for washing the feces; can be attached to any faucet by rubber tubing		3 00
3151b.	MacMillan Sieve for washing the feces; complete with tubing		7 50

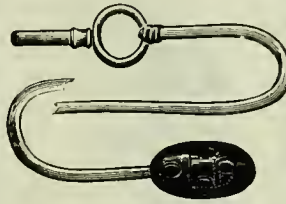
All articles illustrated are designated by a *.

Mouth and Throat Instruments.

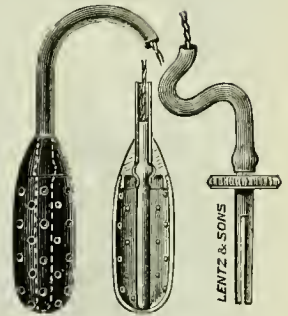
APPARATUS FOR GASTRIC DIAGNOSIS.



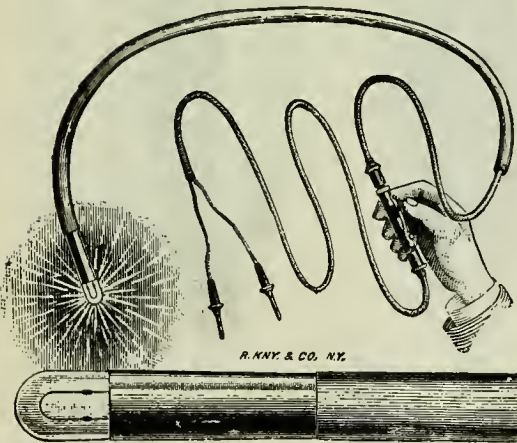
3152



3153



3154



3155



3159

- | | | |
|--------|---|--------|
| 3152.* | Stomach Bucket, Einhorn's, for securing sample of contents of stomach . . . | \$1 50 |
| 3153.* | “ Electrode, Einhorn's, deglutable, for direct electrization . . . | 2 25 |
| 3154.* | “ Boardman Reed's modified Einhorn's . . . | 1 50 |
- The hard-rubber bulb, besides being longer and considerably less in diameter than the original model, tapers very gradually at its proximal end to the size of the thin soft-rubber tube through which pass the copper wires constituting the rheophore. The perforations in the bulb are smaller, only pin-hole size, so that while water enters freely, mucus does not. The lessened diameter of the bulb facilitates its introduction, and the gently tapering upper end greatly assists the act of withdrawal. The conducting wires can be, by means of a simple device, detached from the rubber covering as well as from the attachments at either end, so as to admit of complete disinfection.
- | | | |
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| 3155.* | Gastro-Diaphane, Einhorn's, for transillumination of the stomach, for diagnosing dilation of the stomach, gastroptosis, and also tumors or thickenings of the front wall of stomach by lack of translucency of such portions . . . | 7 50 |
| 3156. | Gastro-Diaphane, Lincoln's mod. Einhorn's . . . | 9 00 |
| 3157. | Outfit for Stomachal Diagnosis, Einhorn's, consisting of silver bucket, nest of 3 porcelain dishes, glass rod, glass pipette, small glass bucket, bottle of Guenzburg's solution, litmus and Congo paper, in neat morocco case . . . | 4 50 |
| 3158. | Gastric Atomizer, Einhorn's, for disinfection of mucus membrane. . . | 5 00 |
| 3159.* | Kuttner's Bulb, 12 oz. capacity, used in connection with stomach tube for extracting contents of stomach after a test meal . . . | 2 85 |

*All instruments illustrated are designated by a *.*

Teeth Extracting Instruments.

These instruments are of the best quality, and have been carefully adapted to the various requirements of teeth extraction. A variety of shapes of correct patterns are illustrated for ready selection.

Tooth Forceps, every one warranted each \$1 50



3173



3170



3182

- | | | |
|--------|--------|---|
| 3160.* | No. 1, | Root, Upper, front, straight. |
| 3161.* | 2, | “ “ and Lower, half-curved. |
| 3162.* | 3, | “ Lower, full-curved. |
| 3163.* | 7, | “ Universal. |
| 3164.* | 35, | “ Bayonet-shaped. |
| 3165.* | 13, | Incisor, Upper, with or without hook on handle. |
| 3166.* | 9, | “ Lower, hawk bill, for front teeth. |
| 3167.* | 14, | “ or Bicuspid, Lower, for either side. |
| 3168.* | 11, | Bicuspid and Canine, Upper. |
| 3169.* | 40, | “ Incisor, “ |
| 3170.* | 21, | “ Canine, “ |
| 3171. | 4, | “ Upper and Lower, half-curved. |
| 3172. | 33, | Alveola. Parmlý's, straight beak. |
| 3173.* | 39, | “ half-curved beak. |
| 3174. | 34, | “ full-curved “ |
| 3175. | 32, | “ Bayonet-shaped beak. |
| 3176. | 8, | Dentes Sapientiae, Upper, either side. |
| 3179. | 24, | Molar, Universal, Upper, straight handle. |
| 3180.* | 24, | “ hook on handle. |
| 3181, | 10, | “ Bayonet-shaped, Upper Wisdom. |
| 3182.* | 18, | “ Upper, right and left, one for each side. |
| 3183.* | 45, | “ Cow horn, either side. |
| 3184. | 27, | “ Lower, full-curved, for either side, straight handle. |
| 3185.* | 15, | “ Harris', for either side, hook on handle. |
| 3186.* | 28, | “ right and left, one for each side. |
| 3187.* | 16, | “ Cow-horn, for either side. |
| 3188.* | 30, | Children's, straight or curved. |

*All instruments illustrated are designated by a *.*

Teeth Extracting Instruments.



3160



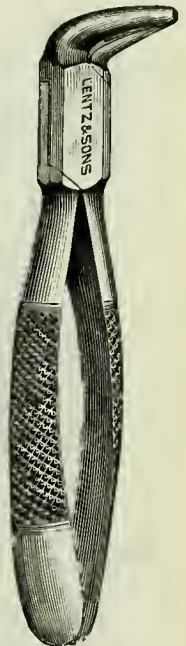
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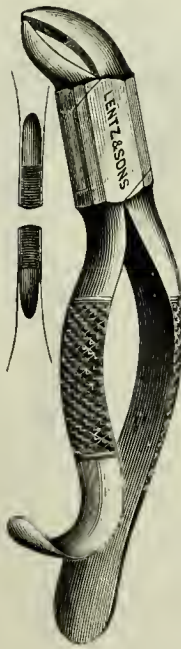
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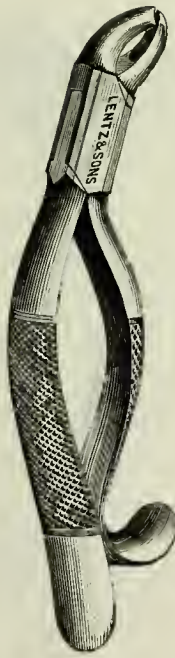
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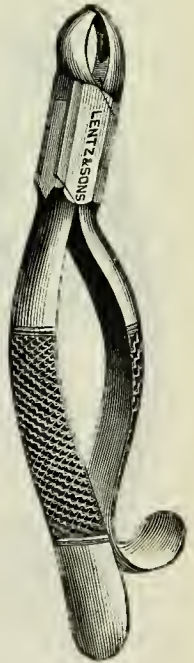
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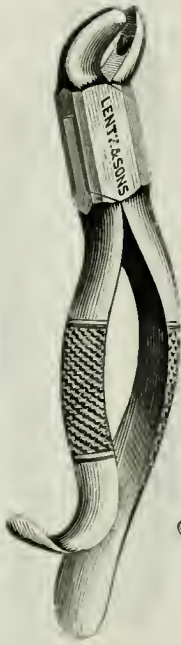


3168

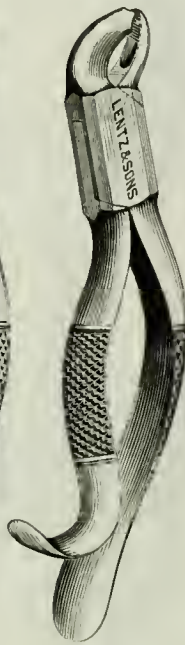
Teeth Extracting Instruments.



3180



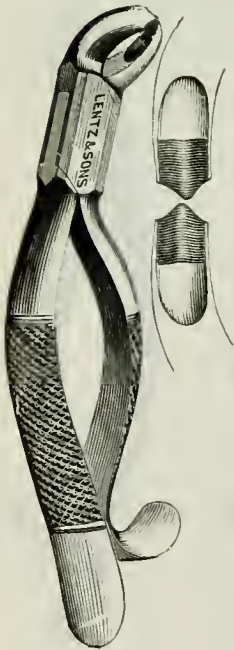
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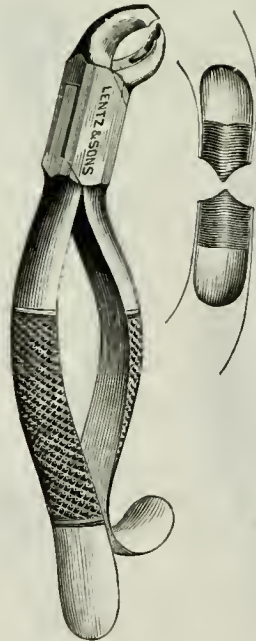
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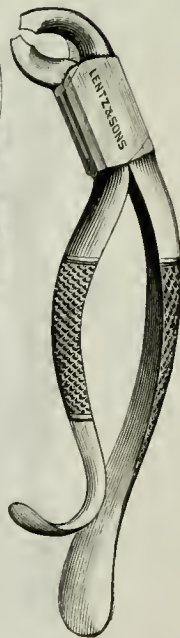
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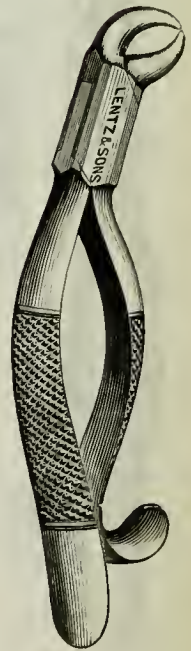
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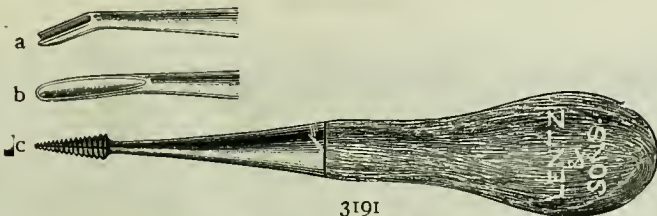
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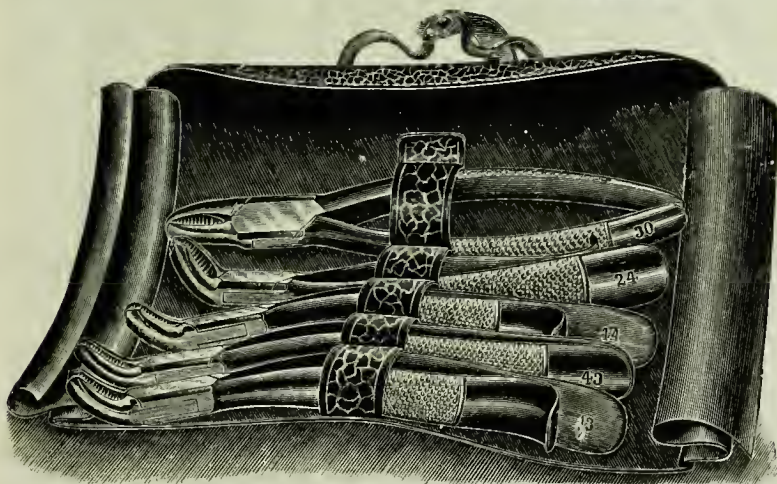
3187



Teeth Extracting Instruments.



3191



3193



3197

3191.* Root Elevator, three patterns, with round, black handle each \$0 75
 3192. Gum Lancet, all metal 75

3193.* Extracting Set No. 1.

Contains two Upper-Molar Forceps, right and left; one Lower-Molar Forceps; one Incisor Forceps; one Root Forceps. In a roll-up leather case, chamois lined 8 75
 Same with Gum Lancet and Elevator in addition 9 75

3194. Extracting Set No. 2.

Contains two Upper-Molar Forceps, right and left; one Lower-Molar Forceps; one Incisor Forceps; one Bicuspid Forceps; one Root Forceps; one Elevator; one Gum Lancet. In a roll-up leather case, chamois lined 11 00

3195. Extracting Set No. 3.

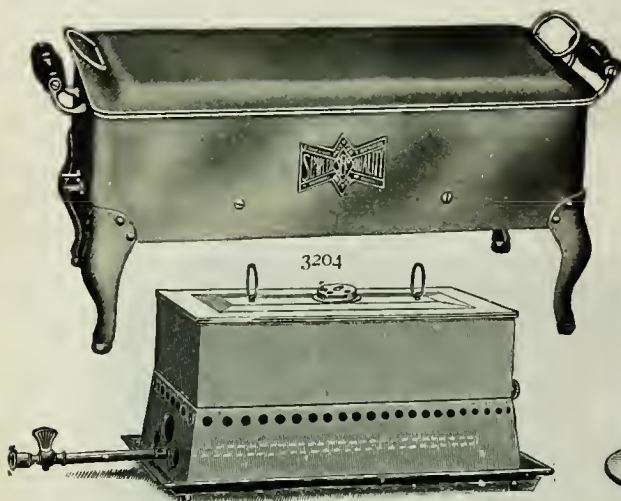
Contains two Upper-Molar Forceps, right and left; two Lower-Molar Forceps, right and left; one Wisdom Forceps, bayonet-shaped; one Bicuspid Forceps; one Root Forceps, half curved; one Root Forceps, bayonet-shaped; one Elevator; one Gum Lancet. In a roll-up leather case, chamois lined 14 50

3196. Morocco Roll Case, lined with chamois skin, to hold six instruments, \$1 60; to hold eight instruments, \$1 85; to hold ten instruments 2 25
 3197.* Canvas Roll Case, to hold eight to ten instruments 75

*All instruments illustrated are designated by a *.*

Mouth and Throat Instruments.

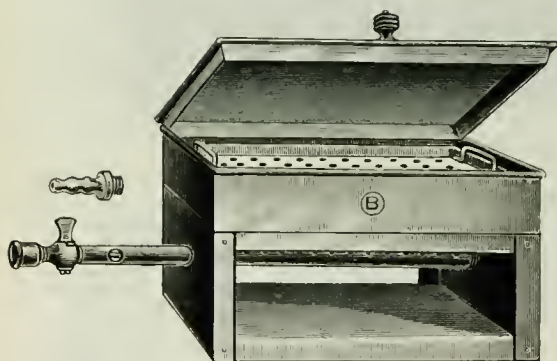
STERILIZERS.



3200



3205



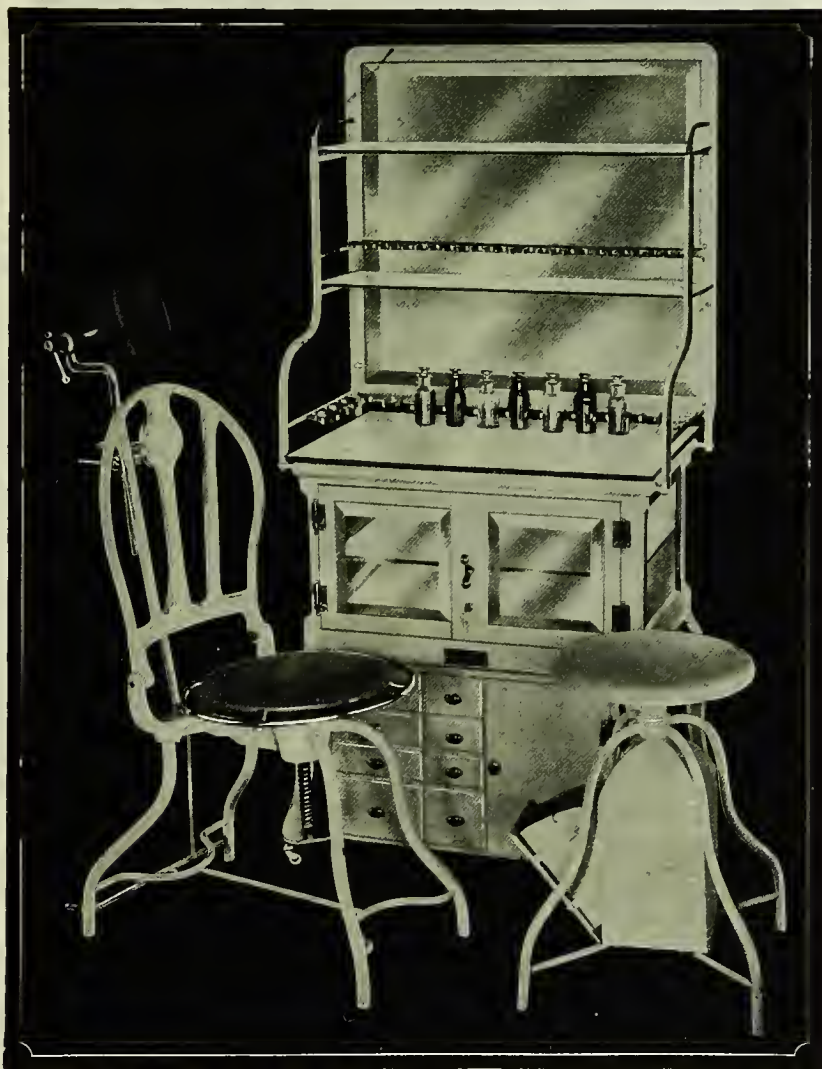
3206

- 3200.* Sterilizer, Franklin's; copper, nickel-plated; with Bunsen burner, valve to drain the water, and ventilator in lid for the escape of steam; including perforated tray and 6 ft. mohair covered gas tubing: small size, 12 x 5 x 3 in. . . \$14 00 large size, 15 x 6½ x 4½ in. 16 50 extra large, 18 x 9 x 6 in.; double Bunsen burner; water gauge . 27 75
- 3204.* Sterilizer, electrical, "Simplex;" copper, nickel-plated, tin lined; including perforated tray and 5 ft. conducting cord with connector. Very convenient and economical. Specify whether for direct or alternating current, also voltage.
 8 x 3½ x 2 in., no handles, with lamp socket plug 10 00
 10 x 4¾ x 2 in., with handles and lamp socket plug 12 00
 13 x 6½ x 2½ in., with handles, no plug 14 00
- 3205.* Sterilizer, "Phila.," for the specialist. Upright form, copper, nickel-plated; with a circular Bunsen burner, and in addition with a small pilot which may be kept burning continually and which produces just enough heat to keep the water hot; extreme height, 10 in.; diameter of base, 8 in. 11 00
- 3206.* Sterilizer, "IXL," copper, nickel-plated; with hinged lid, perforated tray, and full-length Bunsen burner; mounted on base three inches high; small size, 8 x 6 x 2 inches 7 90 medium size, 12 x 7 x 3 inches 9 75 large size, 16 x 7 x 4 inches 12 50

All articles illustrated are designated by a *.

Mouth and Throat Instruments.

SPECIALISTS' OFFICE FURNITURE.



3210.* C. & R. Specialist's Outfit of Office Furniture \$125 00
 Consisting of C. & R. Specialist's Cabinet, \$90 00; Patient's Chair,
 \$25 00; Operator's Stool, \$10 00.

Illustration shows a three-piece set for specialists in eye, ear, nose and throat work. It makes a most handsome and complete outfit for work in this line.

The cabinet has a dustproof, glass-encased compartment with double doors, an adjustable glass shelf and glass top. It has two glass shelves on top with guard-rail around them and clips for bottles and spray tubes. There is a large beveled plate mirror at the back of these shelves. The lower part of the cabinet has nine drawers of various sizes and a closet, all made entirely of metal with white enamel finish inside.

The cabinet is made entirely of metal and is finished either in white enamel or the grained enamel finish. It is made of such a convenient height that anything in it can be reached while the operator is sitting. The glass in cabinet is polished plate.

The operator's stool is made with a receptacle underneath for waste, cotton, etc.

Specialists' Office Furniture.



- 3212.* Allen's Combination Set \$85 00
 Consisting of Allen's Treatment Table and Cabinet (including
 twelve assorted bottles) 65 00
 May's Ophthalmic Chair 18 00
 White Enameled Stool 6 00
 Cuspidor and Stand 4 75

The Table-Cabinet is made entirely of metal, with porcelain enameled iron top and round corners; 30 inches wide, 18 inches deep, 32 inches high. It has five metal drawers, a cabinet for instruments with shelf, also a compartment with drop door for soiled napkins, &c. The top of the table is equipped with an oxidized copper railing to hold the twelve treatment bottles and eight atomizers.



3214.* Specialist's Treatment Chair;

- a. Wood seat and back, cherry or oak . . . 45 00
- b. Seat and back upholstered in genuine leather 50 00
- c. Genuine mahogany seat and back . . . 50 00
- d. Genuine mahogany with leather seat and back 55 00

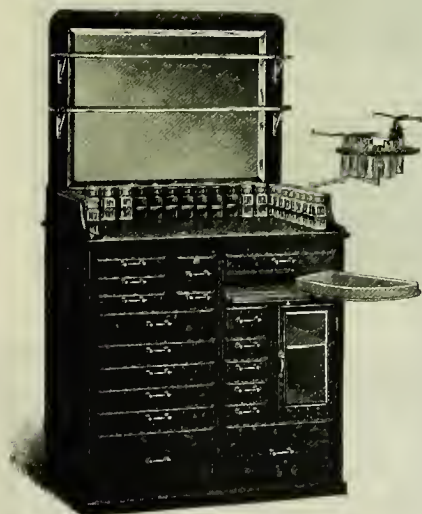
The back of the chair is designed in a special curved pattern, and is adjustable up and down within a range of nine inches. The seat, fixed on a heavy steel screw, revolves independent of the back. A hand lever at rear of the seat enables the operator to recline the back in order to secure the angle desired for his work. By means of a foot lever the entire chair may be tilted backward.

The two sections of the head rest are adjustable.

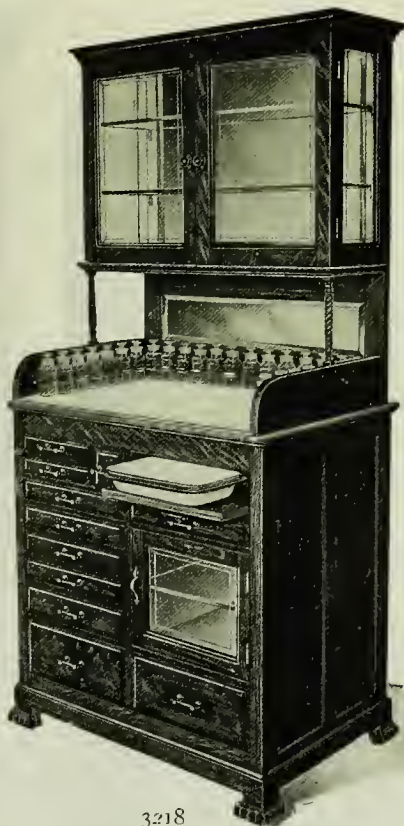
The base is finished in black enamel, handsomely ornamented; trimmings oxidized copper.

*All articles illustrated are designated by a *.*

Specialists' Office Furniture.



3216



3218

3216.* Pynchon's Cabinet

a—	with polished wood top (no mirror back)	\$60 00
b—	with plate glass top, front edge ground and polished	65 00
c—	with plate mirror top, front edge ground and polished	67 00
d—	with plate glass top and beveled plate mirror back	75 00
e—	with plate mirror top and beveled plate mirror back	77 00
*f—	with plate mirror top, beveled plate mirror back, two plate glass shelves with polished front edges, and with a swinging spray heater	85 00

Glass bottoms fitted in all drawers, \$5.00 extra.

The cabinet is provided with 17 drawers of various sizes, each partitioned to accommodate the instruments; also with compartments for clean and for soiled linen. The compartment for clean linen has a glass shelf and beveled plate glass door. Special attention is drawn to style f (illustrated), it being the perfection of completeness. Descriptive booklet on request.

3218.* Merkel's Cabinet.

a—	with double strength glass throughout, except shelves which are plate	\$80 00
b—	with beveled plate mirror back in addition	85 00
c—	with beveled plate in doors and top section	90 00

The Merkel cabinet combines the features of the larger instrument cases and of the general nose and throat cabinets. The top section has two plate glass shelves 28 x 7½ inches, and is intended for instruments of the larger type. The lower section has porcelain enameled iron top 28 x 20 inches, with either bottle racks with 26 bottles or with clips for atomizers. There are further provided a cotton holder in small drawer, a tray for soiled cotton, a compartment for clean linen with plate glass shelf, and a glass-lined drawer for soiled linen.

The cabinet is made of quartered oak, no veneering being used, finished in any desired shade. Mounted on ball-bearing casters. The interior is finished in hard white enamel.

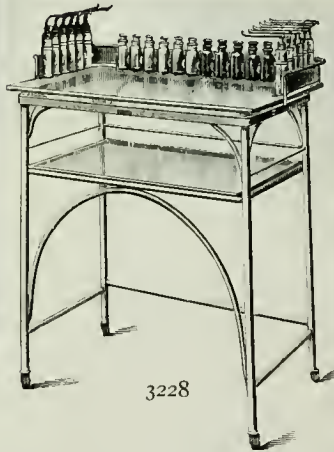
Specialists' Office Furniture.



3220



3230



3228



3224

- 3220.* Instrument Cabinet, metal, white enameled, with three plate glass shelves 16 x 20 inches, ground edges; total height 56 inches, width 24 inches, depth 20 inches \$42 00
For polished edges on plate glass shelves, add \$3.00.
- 3222. Instrument Cabinet, tubular steel, white enameled, with four plate glass shelves 16 x 20 inches, polished edges; total height 61 inches, width 24 inches, depth 20 inches 60 00
- 3224.* Instrument Cabinet, metal, white enameled, with six plate glass shelves 16 x 20 inches, polished edges; height 72 inches, width 24 inches, depth 20 inches 95 00
- 3226. Treatment Table, porcelain enameled iron top 16 x 20 inches, with nickel-plated guard rail and twelve spring clips to hold spray bottles 12 00
- 3228.* Treatment Table, plate glass top 18 x 30 inches, and glass shelf; frame is bridged in front to accommodate operator's stool underneath. Guard rail, twelve bottles included 18 75
- 3230.* Treatment Table, white enameled, with milk-white glass top 18 x 30 inches, milk-white glass shelf and six glass-lined drawers. The top guard rail is of oxidized copper and is provided with twelve assorted bottles in rack, also with additional clips to hold spray tubes 40 00

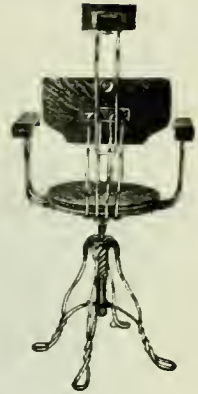
Specialists' Office Furniture.



3231



3232



3233



3234



3236



3237

- 3231.* Chair for Patient, golden oak, finely finished \$4 50
- 3232.* " " " " " with side arms 7 50
- 3233.* " " " " " " " " and adjustable head rest 10 50
- 3234.* Stool for Operator, " " 3 50
- 3235. Cuspidor Holder, antique copper plated 3 50
- 3236.* " " and Cuspidor, both antique copper plated 4 50
- 3237.* Combination Stool and Waste Cotton Holder, white enameled 9 00

*All articles illustrated are designated by a *.*

Mouth and Throat Instruments.

SPECIALISTS' OFFICE SUPPLIES.



3239

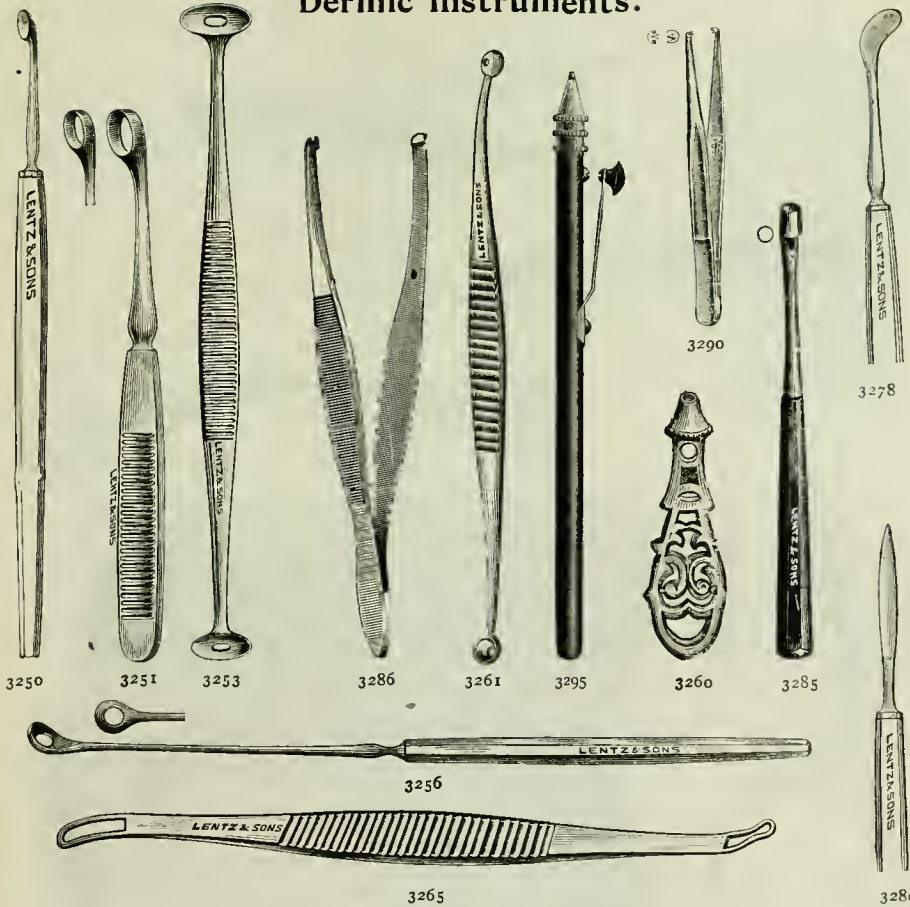


3241

- 3239.* "Philadelphia" Fountain Cuspidor, for the throat and nose specialist. Glass bowl, either green or crystal as desired; on adjustable, portable stand with supply and off-flow tubing. Including either wall or floor fixture for water connection \$30 00
- 3240 "Polyclinic" Fountain Cuspidor, same as Fig. 3239, but with the addition of a goose-neck attachment and cupholder 35 00
- 3241.* "Pilling" Fountain Cuspidor de Luxe, for the throat and nose specialist. Thoroughly aseptic. Is of genuine, solid, white, vitreous china, not an iron casting, and corresponds in quality with the very highest grade of bath-room fixtures. No metal is shown except the stopcock at back, the water connection being made under the base through the floor. Height from floor to top, 28 inches; outside diameter of bowl, 10½ inches; diameter of base, 12¾ inches. The cuspidor is provided with trap allowing overflow of water, also with excess overflow at top of bowl, preventing all possibility of the bowl overflowing 45 00
- 3242 "Pilling" Fountain Cuspidor de Luxe, same as Fig. 3241, but with the addition of goose-neck and stopcock attachment for drawing water into drinking glass 50 00

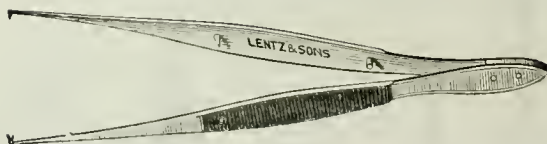
*All articles illustrated are designated by a **

SECTION VII Dermic Instruments.

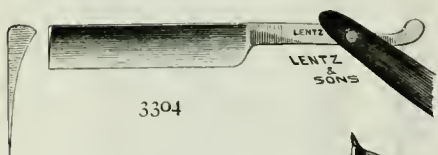


3250.*	Curette, Fox's, sharp, aluminum handle, three sizes	each	\$1 50
3251.*	Piffard's, sharp, "	"	1 50
3252.*	Lassar's, long oval spoon at side of shaft, three sizes	"	1 50
3253.*	Stelwagon's, double, fenestrated, two sizes of long oval spoons	"	2 00
3254.*	Martin's, double-ended, round, sharp edge scoops	"	1 00
3255.*	Fox's, and Acne Lancet, combined, in metal screw case	"	1 75
3256.*	Wolf's, small ring, sharp, three sizes	each	1 25
3260.*	Comedone Extractor, Piffard's		30
3261.*	Unna's, double-ended		75
3262.*	" " with Acne Lancet, combined, Saalfeld's		1 00
3265.*	" " Schamberg's (illustration shows full size)		1 25
3268.*	Nevus Needle		50
3269.*	Milium Needle, Piffard's		1 15
3270.*	Needle Disc, Schamberg's, for the removal of winemarks by electrolysis		2 50
3271.*	Fox's,		3 75
3276.*	Cutisector, Fox's, crescent shaped		1 00
3277.*	Piffard's, " double knife		3 75
3278.*	aluminum handle		1 25
3280.*	Scalpel, small, aluminum handle		1 25
3281.*	Lancet, double-edged, aluminum handle (illustrated in Set Fig. 3310)		1 50
3285.*	Cutaneous Punch, Keyes', aluminum handle, for eradicating powder marks, moles, etc.	each	1 50
	Sizes from 2 to 8 mm. in diameter		
3286.*	Epilating Forceps	3 inch, 35c.; 3½ inch	1 50
3287.*	Schamberg's, fine points (illustrated in Set Fig. 3310)		1 25
3288.*	Piffard's		85
3289.*	Henry's		2 00
3290.*	Tissue Forceps, with three and four teeth, 4½ inch		1 00
3295.*	Electrolysis Needle Holder	plain, 75c.; with interrupter	1 00
3296.*	" " with interrupter		2 50
3297.*	" Needles, for destruction of hair follicles, steel	per dozen	30
3298.*	" " iridio-platinum	each, 25c.	2 50
3299.*	Dermatograph Pencil, with metal cap to protect point		15

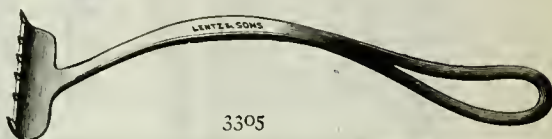
Dermic Instruments.



3301



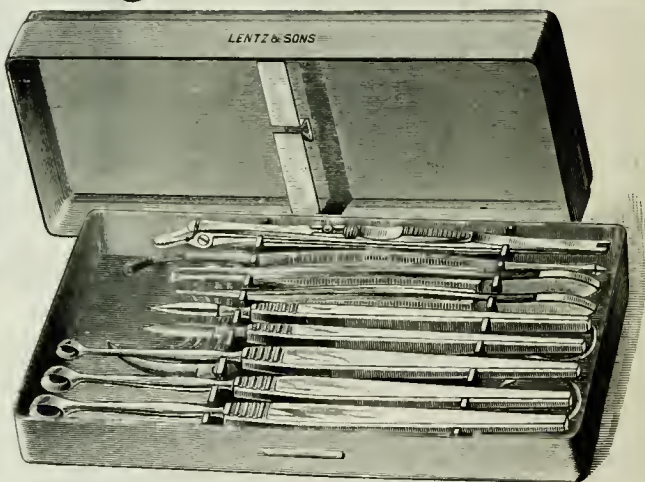
3304



3305



3303

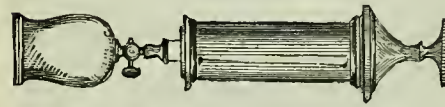


3310

- | | | | |
|--------|---|--------------------------|--------|
| 3300. | Skin-Grafting Forceps, Piffard's (grappling forceps) | ..... | \$1 75 |
| 3301.* | “ “ “ with fine teeth | ..... | 1 10 |
| 3302. | “ “ Scissors, curved, delicate blades (see fig. 1811) | ..... | 1 10 |
| 3303.* | “ “ “ Smith's | ..... | 6 25 |
| 3304.* | “ “ Razor, specially ground | hard rubber handle | 1 25 |
| | | metal handle | 1 75 |
| 3305.* | “ “ Retractors, McBurney's | each | 2 50 |
| 3306. | “ “ Knife, Tiersch's, with hollow metal handle | ..... | 3 50 |
| 3307. | “ “ “ Kortuem's “ “ “ | ..... | 3 75 |
| 3310.* | Dermic Set, Schamberg's, consisting of 3 Piffard's Sharp Curettes, Scalpel, Double-edge Lancet, Curved Scissors, Unna's Comedone Extractor and Acne Lancet, combined, Forceps with fine teeth, Epilating Forceps, Needle-holder, Needles and Silk, in metal case with aluminum rack and pouch 18 50 | | |

*All instruments illustrated are designated by a *.*

Cupping, Phlebotomy and Leeching Instruments.



3326



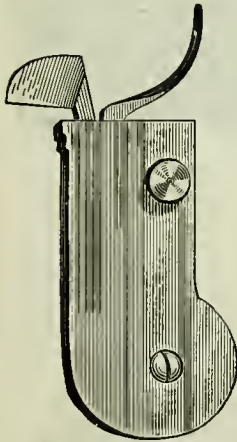
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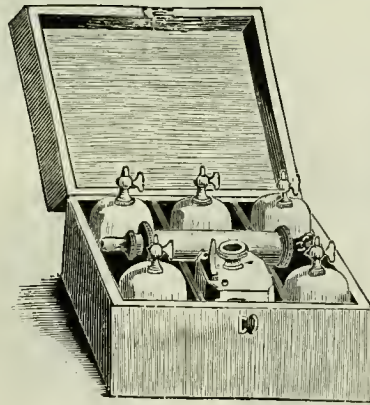
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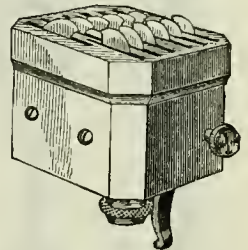
3327



3321



3333



3322

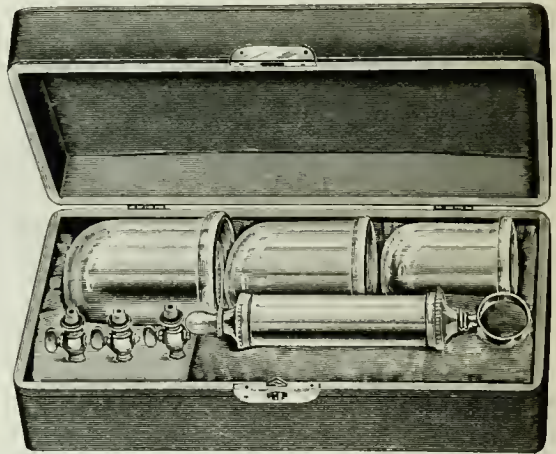
- | | | |
|--------|---|--------|
| 3320. | Spring Lancet, with lever trigger | \$1 50 |
| 3321.* | “ “ with button trigger | 1 75 |
| 3322.* | Scarificator, twelve blades, reversing by lever, in case | 3 50 |
| 3324.* | Cupping Glasses, ordinary, assorted sizes each, 15c.; per doz. | 1 25 |
| 3325.* | “ “ with rubber bulb, assorted sizes each | 50 |
| 3326.* | “ Glass, “ stop-cock and air pump | 3 35 |
| 3327.* | “ Cup, all rubber | 1 50 |
| 3328. | “ Glasses, with screw-hole, to use with pump. each | 75 |
| 3329. | Stop-cocks for “ “ “ “ “ “ “ | 60 |
| 3332. | Cupping Case, No. 1, contains one Pump; three Glass Cups; three Stop-cocks; one 12-blade Scarificator; in plain, strong box | 9 50 |
| 3333.* | Cupping Case, No. 2, contains one Pump; five Glass Cups; five Stop-cocks; one 12-Blade Scarificator; in plain, strong box | 12 00 |

*All instruments illustrated are designated by a *.*

Cupping, Phlebotomy and Leeching Instruments.



3359



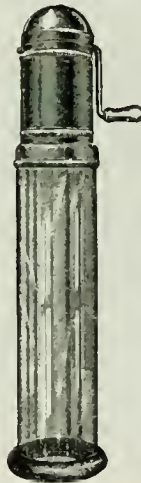
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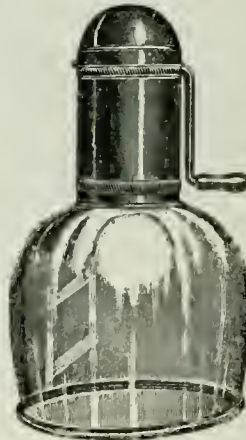
3339



3358



3357



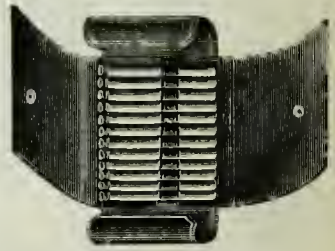
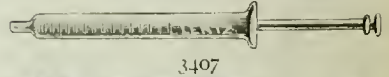
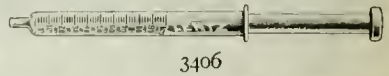
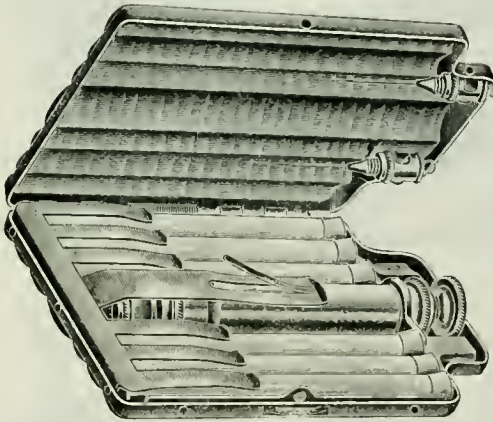
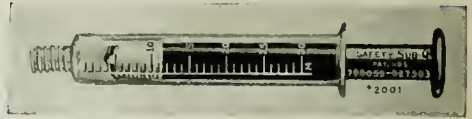
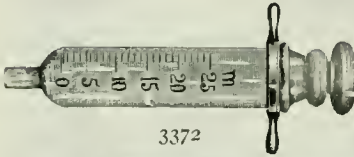
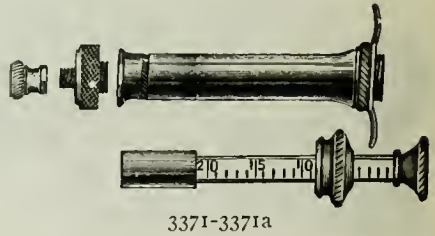
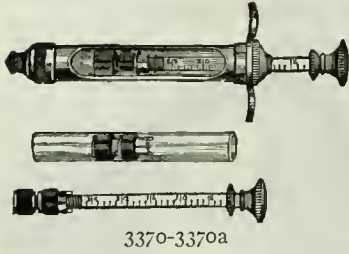
3354-3355



3353

3336.	Artificial Leech, Lucrs', in case	\$7 00
3337.	" " Bacon's, with glass cup and bulb	5 50
3338.	Live Leeches per half dozen	2 00
3339.*	Instrument for Counter-Irritation, Baunscheidt's	1 75
3340.	Oil, Baunscheidt's per bottle	1 00
3345.*	Cupping Case No. 3. Containing one Pump; three glass Cups; three stop-cocks, in neat leather case	6 50
3346.	" Boot, for leg	6 00
3347.	" Sleeve, for arm	4 00
3353.*	" Cup, "Hygienic" breast pump with rubber bulb	50
3354.*	" " "Modern," 2 to 3 inches diameter each	3 00†
3355.*	Breast Developer, "Modern," 4 inches diameter, \$3 50; 5 inches	4 00†
3356.	" " " " with sponges for counter-irritation, 4 inches diameter, \$5 00; 5 inches	6 00†
3357.*	Penis Developer, "Modern"	5 00†
3358.*	" " with metal pump, nickel-plated	3 75†
3359.*	Massage Ball, iron, leather covered, 2½ lb., \$1 25; 3½ lb., \$1 50; 5 lb., \$1 85; 7 lb.	2 25

Hypodermic Syringes.



3408

3373a

3406

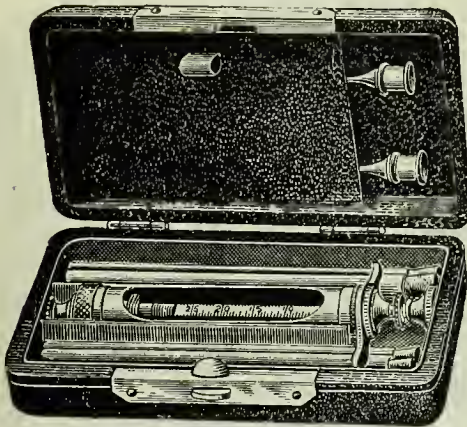
3407

3409

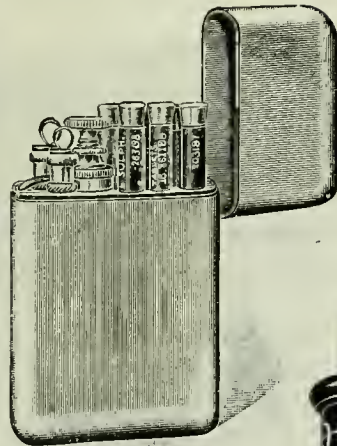
HYPODERMIC SYRINGES.

3370.*	Glass Barrel Syringe, only, leather plunger	\$0 50
3370a.*	“ “ “ “ expanding leather plunger	75
3371.*	All Metal “ “ solid metal plunger	1 00
3371a.*	“ “ “ “ extra fine	1 25
3372.*	All Glass “ “ 25 minims, Luer's, accurately ground barrel and plunger	1 50
3372a.	“ “ “ “ 2 c.c., Luer's, accurately ground barrel and plunger	1 75
3373.	All Glass Syringe, Lentz's "Tioga," asbestos packed plunger, in box, with two needles	85
3373a.*	All Glass Syringe, "Sub Q," asbestos packed plunger, in box, with two needles	1 25
3373b.	Dental Syringe, all metal, high pressure, with button to fit palm of hand	2 50
3406.*	Tuberculin Syringe, Fornier's, ½ c.c. or 1 c.c., graduated in one-hundredths, in metal case; with two steel needles, \$4 00; with two platinum needles	5 00
3406a.	Tuberculin Syringe, "Sub Q," asbestos packed plunger, ½ c.c. or 1 c.c., with two steel needles, in leatherette case	1 50
3407.*	Gray-Oil Syringe, Bartholemey's, 1 c.c., graduated in one-fortieths, in metal case; with two steel needles, \$4 00; with two platinum needles	5 00
3408.*	All Metal Syringe, Fig. 3371a, Non Plus Ultra; with two needles and vials, in metal case	2 50
3409.*	Tablet Case, morocco, leather lined, with twelve standard size vials	90
3410.	“ “ German silver, nickel-plated, with twelve standard size vials	1 00

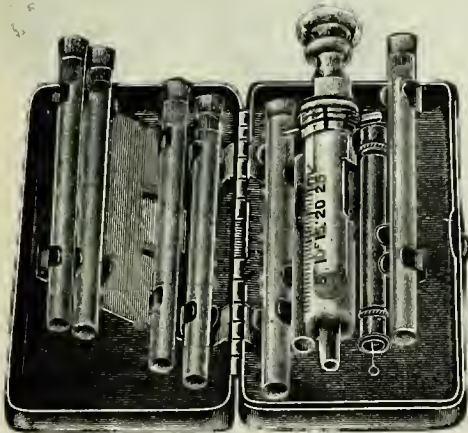
Hypodermic Syringes.



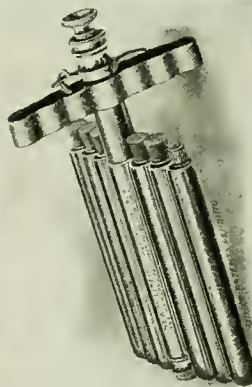
3375



3379 and 3385



3393-3394



3396-3397

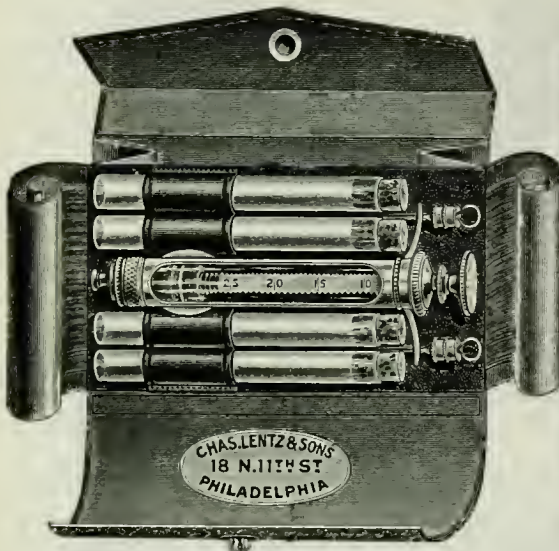


3411

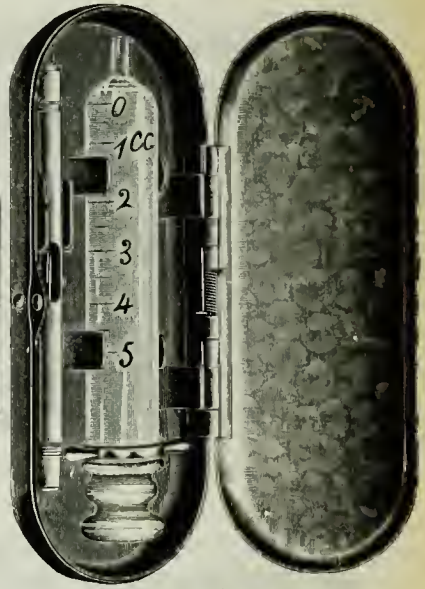
HYPODERMIC SYRINGES WITH TWO STEEL NEEDLES IN CASES.

3375.*	Glass Barrel Syringe, Fig.	3370, leather plunger, in fine leather case	\$1 35
3376.	All Metal	3371, solid metal plunger, in fine leather case	1 65
3378.	Glass Barrel	3370, in aluminum case, with four vials . .	1 65
3379.*	"	3370, " " " " six " . .	2 00
3380.	All Metal	3371, " " " " four " . .	1 90
3385.*	"	3371, " " " " six " . .	2 25
3393.*	All Glass	3372, Luer's, 25 m., in fine German silver case, with six vials . .	2 50
3394.*	"	3372, " 2 c.c., in fine German silver case, with six vials . . .	2 75
3395.	All Metal	3371a, Lentz's "Perfection," in fine German silver case, like No. 3393	2 50
3396.*	"	"Military" outfit, in flat case, concaved to fit hip pocket; with five vials	3 50
3397.*	"	"West Point" outfit, like No. 3396, but with three vials	3 00
3398.	"	Fig. 3371, in compact, gun-metal finished case . .	1 75
3399.	"	Combined Syringe and Thermometer, with chain	2 00
3411.*	"Record" Precision Syringe, made of glass and metal only; in metal case.		
	1 c.c., with two steel needles, \$3 25; 5 c.c., with two steel needles		5 50
	2 " " " " " 4 00; 10 " " " " " 6 50		6 50

Hypodermic Syringes and Needles.



3386-3400-3401



3402



3412-3413



3417



3413



3424

HYPODERMIC SYRINGES WITH TWO NEEDLES IN CASES.

- 3386.* Glass Barrel Syringe, Fig. 3370, leather plunger, in folding morocco case. \$1 75
- 3400.* All Metal " " 3371, solid metal plunger, genuine morocco case 2 75
- 3401.* " " " " 3371, solid metal plunger, genuine pigskin case 3 00

ANTITOXIN SYRINGES WITH TWO NEEDLES IN METAL CASES.

- 3402.* All Glass Syringe, Luer's, accurately ground, 5cc. . . \$4 50; 10cc. . . . 5 50
- 3404. All Metal " solid metal plunger 5cc. . . 3 50; 12cc. . . . 4 00

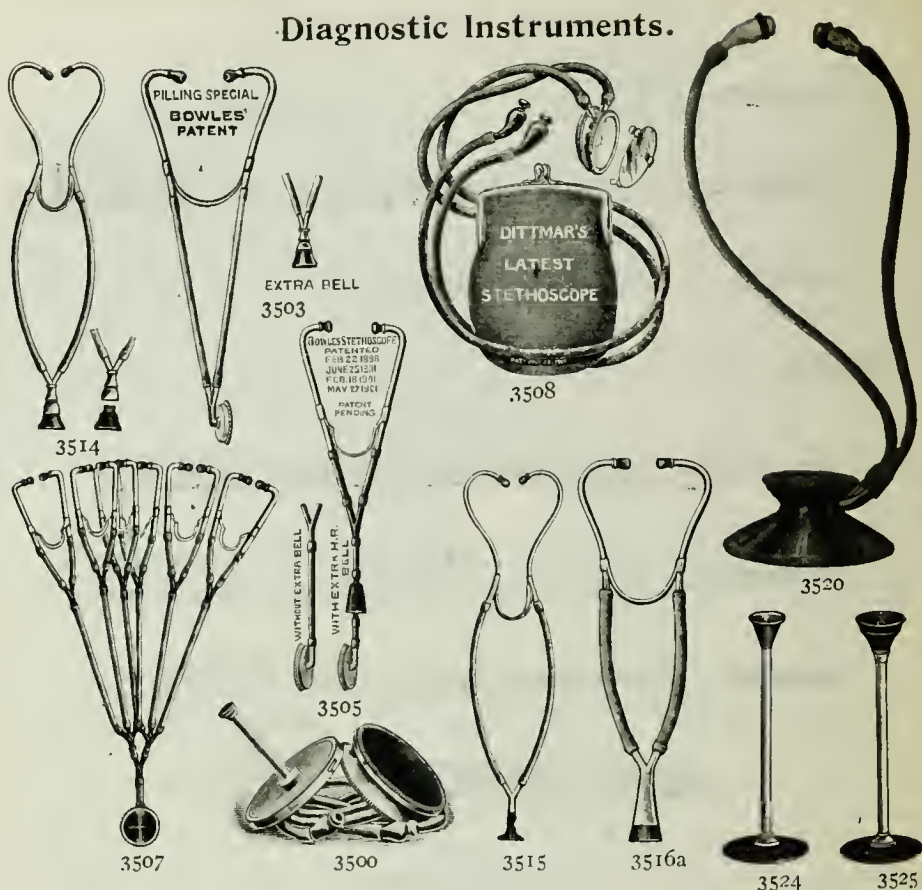
HYPODERMIC NEEDLES.

All the steel Hypodermic Needles with the exception of No. 3412 are made of finest quality, seamless, guaranteed steel tubing, with razor edge point, hand honed.

- 3412.* Universal Thread, competition grade per box of one dozen \$0 50
- 3413.* " " Lentz's "Perfection," best quality, seamless steel. doz., \$1 25; each 15
- 3414. To fit "Tioga" or "Sub Q" syringes " 2 00; " 20
- 3415. " " "Record" 1 and 2 c.c. " " 2 25; " 25
- 3416. " " 5 " 10 " " " 3 50; " 40
- 3417.* P. D. & Co.'s style and thread " 2 00; " 25
- 3418. " Schimmel pattern, six in tube per tube 60
- 3420. To fit all sizes of Luer's syringes doz., \$2 00; each 20
- 3422. Gold, universal thread " 60
- 3423. Platinum, universal thread " 85
- 3424.* Dental, stout shank, short needle doz., \$2 00; " 25
- 3430. To fit all regular thread metal antitoxin syringes 3 00; " 30
- 3428. Hypodermic Spoon, Moore's, folding, for dissolving tablets 50
- 3429. " Tablet and Needle Spoon, Lindridge's, folding 65

We repair all kind of Hypodermic Syringes, can supply new glass barrels, etc. For approximate cost see index "Repairing."

Diagnostic Instruments.



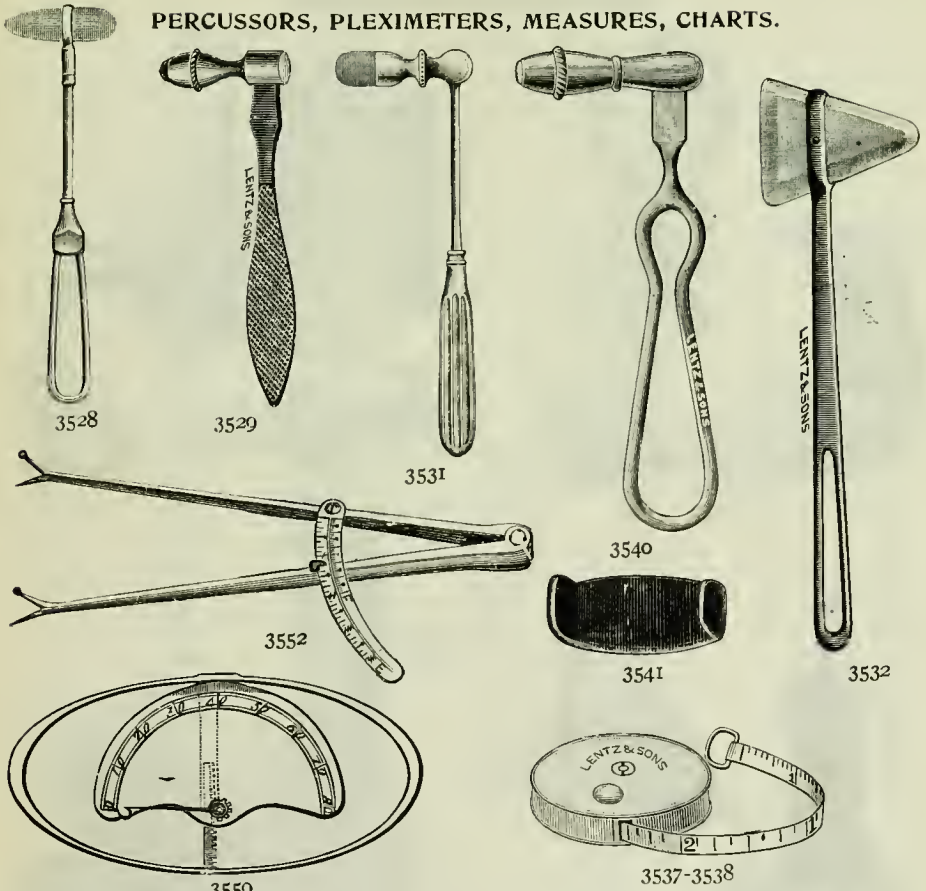
STETHOSCOPES.

3524.*	Da Costa's, metallic, with hard rubber earpiece, to unscrew	\$o 65
3525.*	Daland's, chest and earpieces of hard rubber, separable	1 25
3514.*	Snofton's	1 25
3515.*	Musser's	1 25
3516a.*	Ford's	2 25
3517a.	Oertel's, for measuring relative intensity of heart sounds	6 00
3503.*	Bowles' improved, chestpiece 2 1/8, 1 3/4 or 1 3/8 in., \$4 00; with extra bell	4 50
3505.*	“ original, “ 2 1/8, 1 3/4 or 1 3/8 in., 4 00; “ “ “	4 50
3506.	“ with flat-iron shaped chestpiece	4 50; “ “ “ 5 00
3507.*	“ Multiple, for teaching auscultation; for two persons, \$5 00; for three, \$6 50; for six, \$9 00; for twelve persons	12 00
3508.*	Dittmar's, with rubber tubes and hard rubber tips, in leather pouch	2 25
3509.	“ “ binaurals, in wooden case	3 00
3518.	Kehler's, “ rubber tubes and either 2 in. or 1 1/2 in. chestpiece, in metal case	2 25
3519.	“ “ binaurals and either 2 in. or 1 1/2 in. chestpiece, in wooden case	3 00
3520.*	Aurness, “Duplex,” with small and large discs; embodies principle of Oertel	3 50
3500.*	Phonendoscope, in metal case	3 50
3521.	Mica-Membrane, single disk, very small, similar to 3520	2 00
	Binaurals, plain regular, \$o 75; folding	1 25
	For Bowles' Stethoscope: hard rubber disc, \$o 20; tubing, per foot	25
	Soft rubber cap small, \$o 20; medium and large, each	25
	Metal Protector, fits over Diaphragm; three sizes	25

All instruments illustrated are designated by a *.

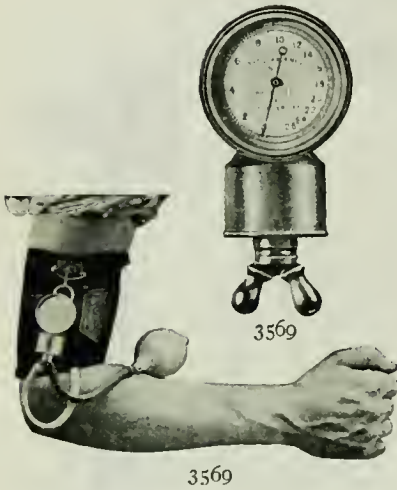
Diagnostic Instruments.

PERCUSSORS, PLEXIMETERS, MEASURES, CHARTS.

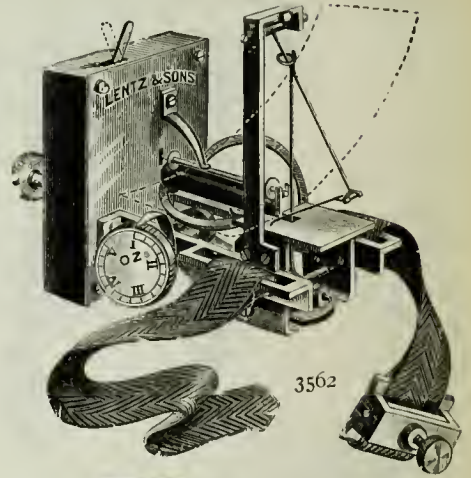


3528.*	Percussor, Flint's, metal handle	\$0 75
3529.*	" Winterich's, metal handle	1 00
3539.	" Frerich's, ivory handle	1 50
3531.*	" Niemayer's	1 25
3540.*	" R. N. Willson's	1 50
3532.*	" and Knee-jerk Hammer, Taylor's	1 25
3534.	Pleximeter, Flint's, oval hard rubber, 25c.; ivory	65
3541.*	" R. N. Willson's, ivory	75
3535.	" Struck's, hard rubber	40
3536.	" Sansom's, "	75
3537.*	Tape Measure, linen, in nickered case, with spring and stop; 5 ft., 50c.; 6 ft.	60
3538.*	" steel, " " " " " 5 ft., \$1 10; 6 ft.	1 30
	All tape measures graduated in inches and centimeters.	
3551.	Esthesiometer, Alfred Gordon's	4 75
3552.*	" Carroll's	3 00
3553.	" Hammond's	3 00
3559.*	Dynamometer, Collin's, with scale each for pressure and for traction	6 50
3560.	Dermatograph Pencil, with metal cap to protect the point	15
3490.	Temperature Charts, Lentz's, pocket size per package of 100	25
3491.	" " Wilson's	50
3499.	" " and Day Reports combined	50
3496.	Day Reports, Lentz's	50
	When ordering charts by mail add 7 cents postage per package of 50.	
3497a.	Clinical Chart Holder with clamp, white enameled; doz., \$9 50; each	90
3497b.	" " " " " aluminum	1 00
3497c.	" " " " " wood	4 50; " 50

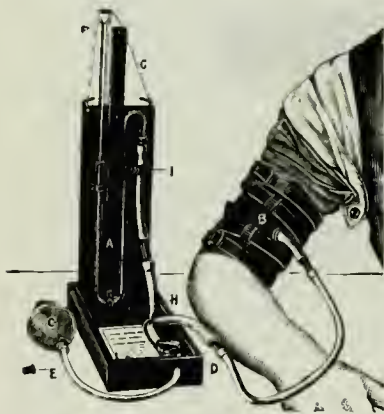
Diagnostic Instruments.
BLOOD PRESSURE APPARATUS.



3569



3562



3566

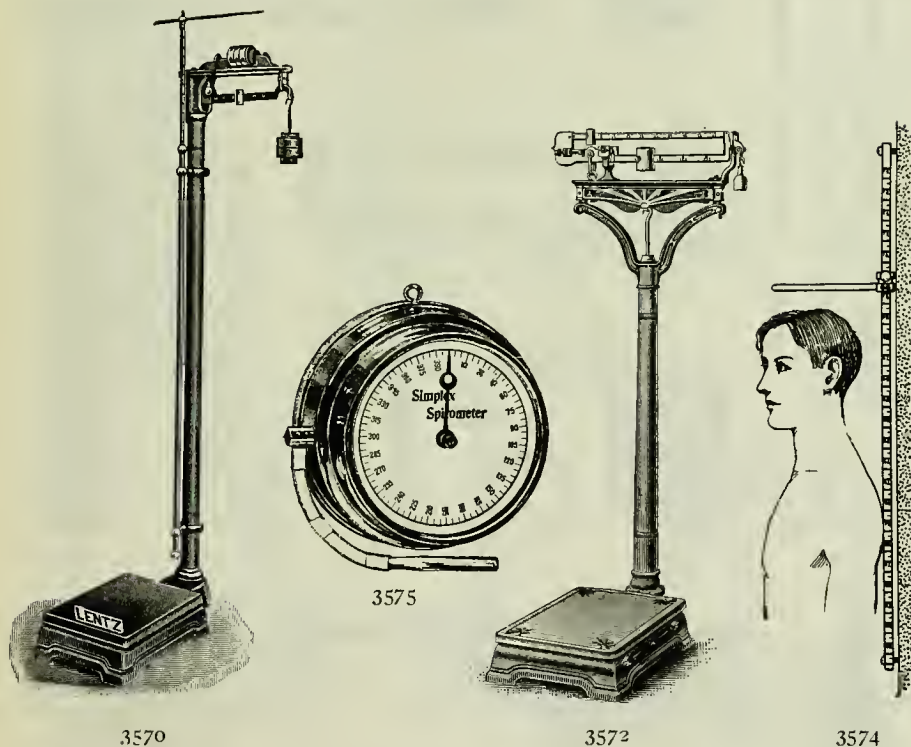


3561

- 3561.* Sphygmomanometer, Faught's, complete with arm-band, in case; with either double bulb or metal pump \$20 00
Registers both the systolic and the diastolic pressure. Very compact and easy to manipulate. Directions with each instrument.
- 3566.* Sphygmomanometer, Janeway's, folding pattern 14 00
- 3568. " Riva-Rocci's modified by Cook; jointed manometer tube; complete, in case 8 50
- 3569.* Sphygmomanometer, "The Cardiac;" small and compact; working on the principle of the aneroid barometer, the pressure registering on dial. Size of the instrument without arm-band, 3¼ x 1½ inches 22 50
- 3569a. Sphygmomanometer, "Tycos" or Rogers 25 00
- 3569b. Sphygmocardiograph, Jaquet's, with cardiograph attachment, complete, for recording jugular, radial and apex beat 130 00
- 3569c. Sphygmocardiograph, Jaquet's, for two tracings only, i. e., either radial and apex or radial and jugular 80 00
- 3569d. Sphygmochronograph, for radial tracings only 60 00
- 3569e. Sphygmotonograph, Uskoff's, for simultaneously recording blood pressure in millimeters of mercury—Carotid or jugular pulse (or apex beat); Arterial pulse (brachial) at varying pressures (systolic and diastolic); Time in one-fifth second 120 00
- 3562.* Sphygmograph, Dudgeon's. 21 00

Diagnostic Instruments.

SCALES AND MEASURES.

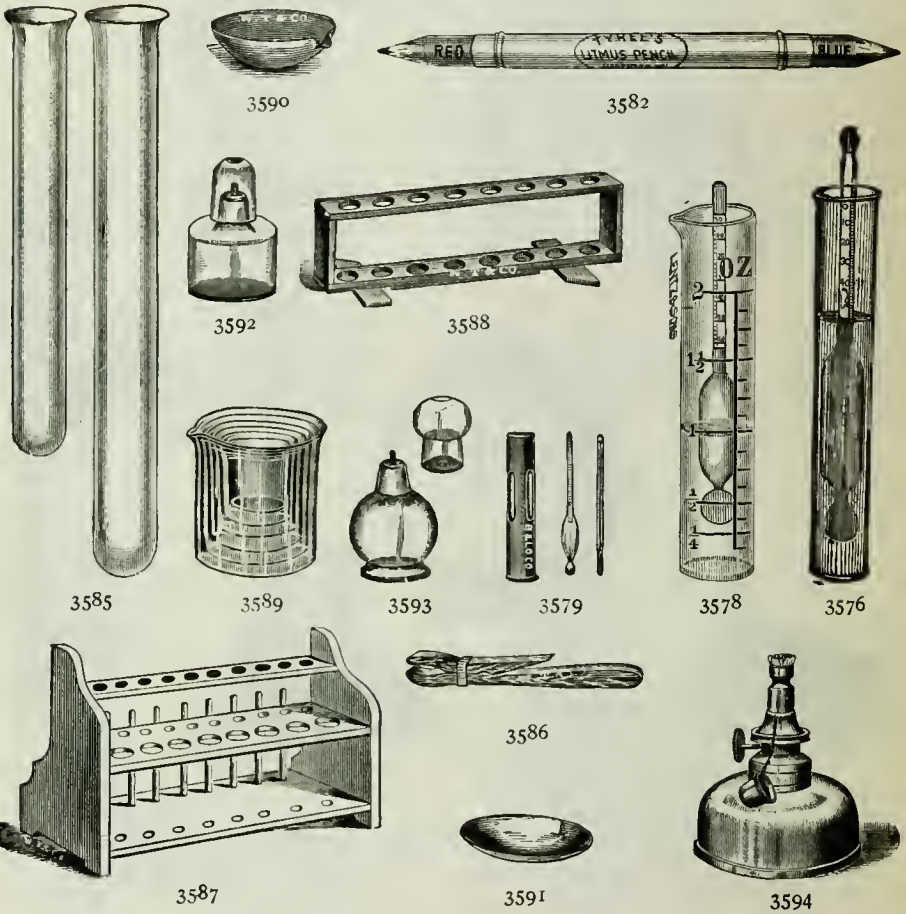


- 3570.* Office Scales, Lentz's, capacity 250 lbs. and more; graduated in ounces; choice of white enamel and gold, or black enamel and gold \$14 00
 With nickel-plated measuring rod 18 00
 Accurate and high-grade in every respect; handsomely finished; just the scale for physician's office, bathroom, hospital, etc.
- 3572.* " " double beam, Fairbanks'; capacity 300 lbs.; graduated in quarter pounds; finished in black enamel 23 00
 " white " 32 00
 With nickel-plated measuring rod, \$7 50 extra.
- 3574.* Measuring Rod, McCully's, all metal, nickel-plated; may be fastened to the wall, door casing, or other convenient place; has range from 52 to 76 inches 2 00
- 3575.* Spirometer, "Simplex," dry, with loop to hang on wall; extra mouth pieces included; nickel-plated 6 00
 Finished in aluminum bronze 4 50
- 3575a. " wet, graduated in cubic inches and decimeters 15 00

*All instruments illustrated are designated by a *.*

Diagnostic Instruments.

INSTRUMENTS FOR URINARY ANALYSIS.

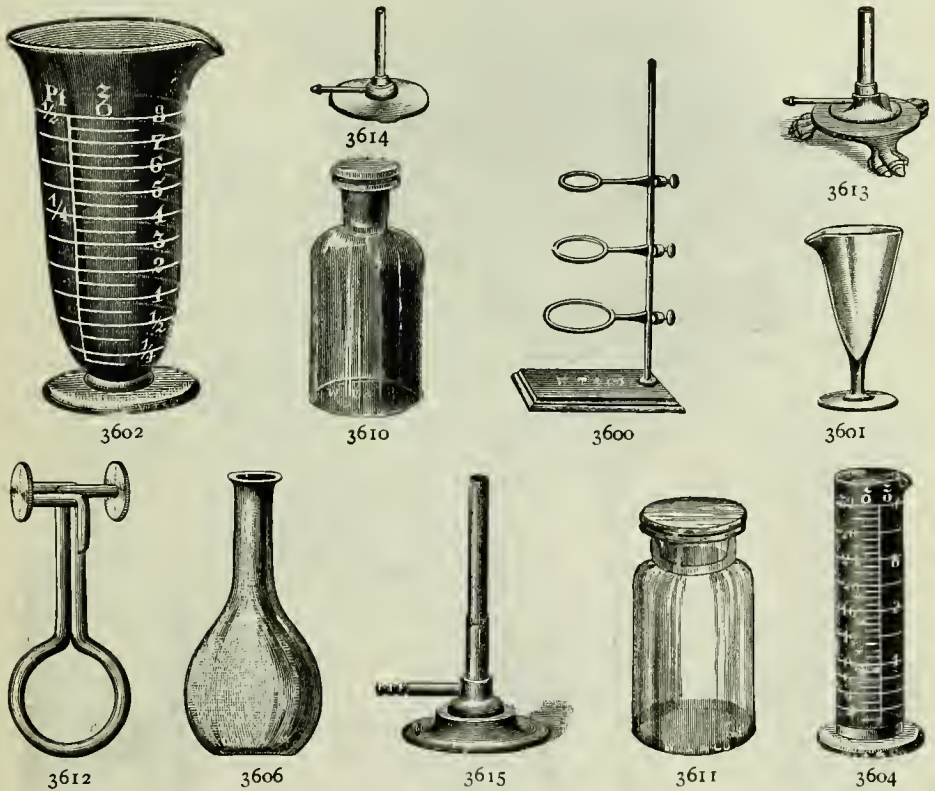


3576.*	Urinometer, plain	\$0 40
3577.*	“ Taylor’s, with certificate	1 00
3578.*	“ porcelain scale, with graduated jar	75
3579.*	“ Squibb’s pattern, with Thermometer	1 50
3580.*	“ and Thermometer, combined	1 00
3581.*	“ Jar (only), graduated, as shown in fig. 3578	25
3582.*	Litmus Peucil, Tyree’s, red and blue on each	25
3583.*	“ Paper, red or blue per booklet	05
3584.*	“ Squibb’s, red or blue per bottle	10
3585.*	Test Tubes, assorted sizes per doz.	30
3586.*	“ Holder wooden, 15c.; Lentz’s improved, of n.p. wire	25
3587.*	“ Stand, for 18 tubes, with 8 pins for draining the tubes, oak wood	75
3588.*	“ “ “ 8 “ compact and folded when not in use	50
3589.*	Beaker Glasses, according to size each 10c. to	80
3590.*	Evaporating Dishes, porcelain 1 ½ oz., 15c.; 3 oz., 30c.; 4 oz., 35c.; 6 oz.	40
3591.*	“ “ “ watch glass, 2 inches diameter per doz.	30
3592.*	Alcohol Lamp, glass, taper capacity 1 ½ oz., 20c.; 3 oz.	30
3593.*	“ “ “ globe shape capacity, 3 oz.	40
3594.*	“ “ “ metal brass, 40c.; nickel-plated	60
3595.*	Funnel, glass 2 oz., 15c.; 4 oz., 18c.; 8 oz., 25c.; 16 oz.	30
3596.*	“ “ “ hard rubber 4 oz., 40c.; 8 oz., 50c.; 16 oz.	60

All instruments illustrated are designated by a *.

Diagnostic Instruments.

INSTRUMENTS FOR URINARY ANALYSIS.

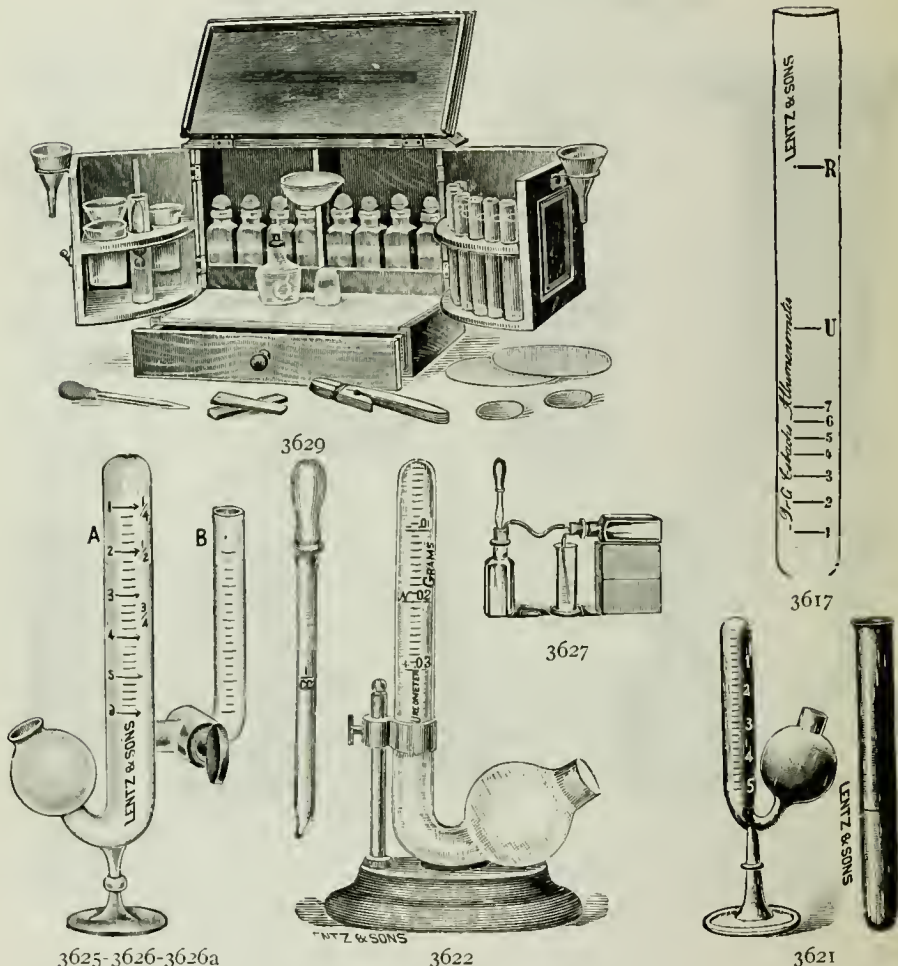


3600.*	Retort Stand, iron, japanned, with three rings	\$1 00
3601.*	Sedimentation Glasses	2 oz., 25c.; 4 oz., 30c.; 6 oz. 35
3602.*	Graduates, glass, cone-shaped	1 oz., 25c.; 2 oz., 30c.; 4 oz., 35c.; 6 oz. 45
3603.	“ “ “	30 cc., 25c.; 60 cc., 35c.; 120 cc., 45c.; 250 cc. 60
3604.*	“ “ cylindrical, with foot and lip,	1 oz., 40c.; 2 oz., 50c.; 4 oz., 70c.; 8 oz. 1 00
3605.	“ “ “ with foot and lip,	25 cc., 45c.; 50 cc., 60c.; 100 cc., 80c.; 250 cc. 1 25
3606.*	Flask, flat or round bottom	2 oz., 10c.; 4 oz., 15c.; 8 oz., 20c.; 1 pt., 25c.; 1 qt. 35
3610.*	Bottle, Chemical Tincture, with ground flat stopper,	1 oz., per doz., \$1 50; 2 oz., per doz. 1 70
3611.*	“ Wide Mouth, with ground flat stopper,	1 oz., “ 1 50; 2 “ “ 1 70
3612.*	Clamp or Spring Compressor, Mohr's, nickel-pla., small 15c.; med. 20c.; lge.	25
3613.*	Bunsen Burner, small, with bronze base	height, 3 inches 30
3614.*	“ “ “ brass, nickel-plated	“ 2 “ 50
3615.*	“ “ “ with flame check	“ 6 “ 35
3616.	Filter Paper, of uniform texture, round, per 100 sheets,	4 in. diam., 12c.; 5 in., 15c.; 6 in., 20c.; 8 in., 33c.; 10 in. 46

*All instruments illustrated are designated by a *.*

Diagnostic Instruments.

INSTRUMENTS FOR URINARY ANALYSIS.

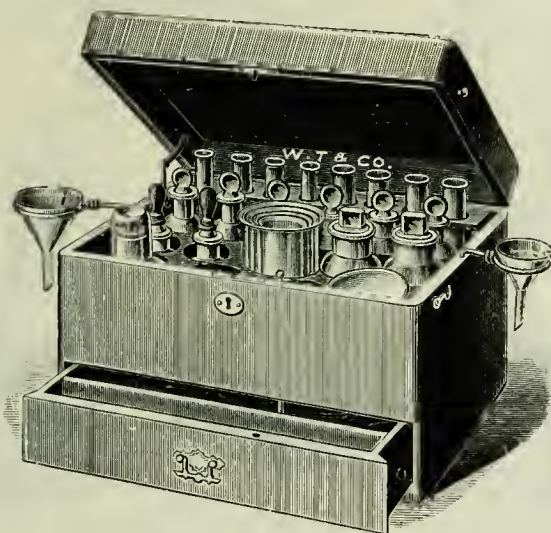


- | | | |
|---------|--|--------|
| 3617.* | Albumenometer, Esbach's, for the quantitative estimation of albumen. | |
| | in wood case on foot | \$0 60 |
| 3618. | " " with glass foot | 50 |
| 3621.* | Saccharometer. Einhorn's, consisting of graduated fermentation tube and graduated test tube; the percentage of sugar is read directly on the tube | 75 |
| 3622.* | Ureometer, Doremus', with pipette, wood base and metal n. p. clamp | 1 75 |
| 3623. | " " " without stand | 1 10 |
| 3624. | " " " with glass foot | 1 25 |
| 3625.* | Doremus-Hinds', with side tube and stopcock, glass foot | 3 00 |
| 3626.* | " " " wood base like Fig. 3622 | 3 75 |
| 3626a.* | " " " without foot or base | 3 00 |
| 3627.* | Urea Apparatus, Squibb's, complete | 2 25 |
| 3628. | Test Set, comprising 8 bottles of reagents, urinometer and jar, 2 funnels, 2 beakers, 3 evaporating dishes, spirit lamp, 13 assorted test tubes, test tube holder, graduated pipette, stirring rod, litmus and filter paper; contained in a dust-proof oak folding case with drawer and wood shelf | 6 00 |
| 3629.* | " " same as No. 3628, but with removable glass shelf | 7 00 |

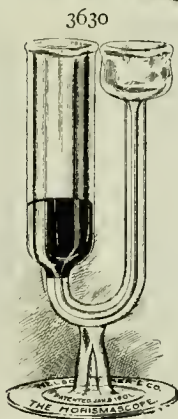
*All instruments illustrated are designated by a *.*

Diagnostic Instruments.

INSTRUMENTS FOR URINARY ANALYSIS.



3634



3632



3633

3630.* Test Set, Chemical and Microscopical, in polished mahogany case, with drawer; size of case, $10\frac{3}{4} \times 7\frac{1}{2} \times 6\frac{3}{4}$ inches, reagents not included . . . \$8 75
The case contains:

6 Reagent Bottles, glass stoppered; 2 Reagent Bottles, with pipette stopper; 2 Salt Mouth Reagent Bottles, glass stoppered; 4 Beaker Glasses, nested; 12 Test Tubes, assorted sizes; Test Tube Rack; Test Tube Holder; Test Tube Brush; Urinometer, with jar in case; 30-Minim Graduated Pipette; Glass Spirit Lamp; Concave Glass Slide; Porcelain Evaporating Dish; 6 Small Glass Evaporating Dishes; 2 Glass Funnels; Glass Stirring Rod; 2 Wire Holders for Funnels; 100 Sheets White Filter Paper; Screw Capped Vial, containing Litmus Paper, neutral; Pincers for holding Litmus Paper; Sheet of Gummed Labels; 3 dozen Glass Slides; 50 Cover Glasses (circles); box Slide Labels.

The Test Tube Rack may be removed from the case; by turning the strips of wood pivoted on the bottom, a firm base is formed.

3632.* Albumascope (Horismascope), for detecting traces of albumen in urine; a very delicate instrument indicating 1-60th per cent. of albumen; complete with directions . . . \$1 00

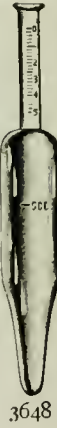
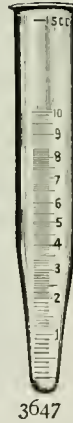
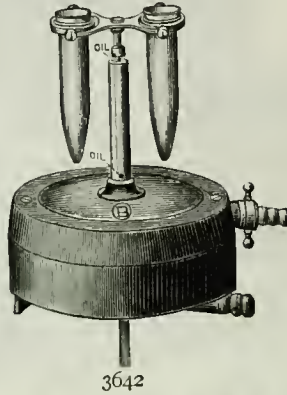
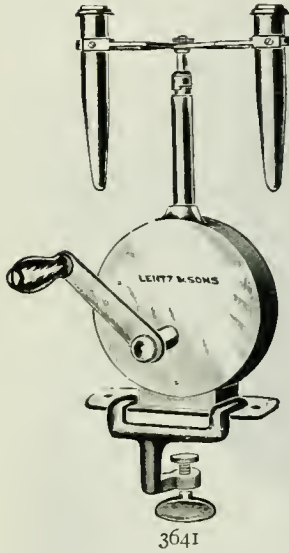
3633.* Uricometer, Ruhemann's, for quick determination of uric acid . . . 2 50

3634.* Purinometer, Hall's, for quantitative determination of purin in urine . . . 10 00

*All articles illustrated are designated by a *.*

Diagnostic Instruments.

CENTRIFUGES.



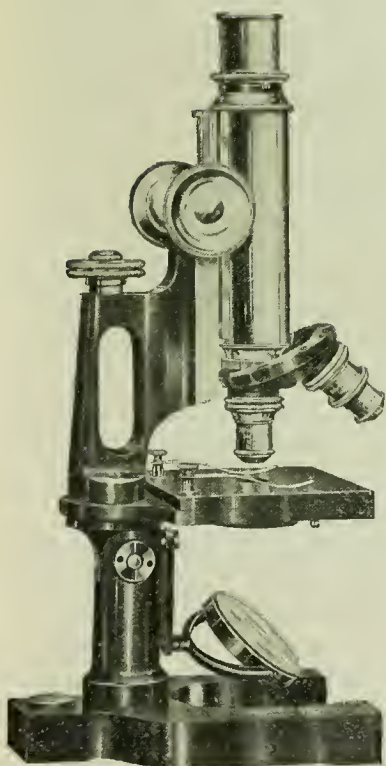
- 3640. Centrifuge, double speed, for sedimentation of blood, urine and sputum, complete with Daland's Hematocrit, fig. 3639 \$10 00
- 3641.* " single geared, for urine sedimentation, complete with plain and graduated tubes 7 50
- 3642.* " water motor, for urine sedimentation, complete with plain and graduated tubes and hose connection 8 00
- 3644.* " electric, with rheostat for selecting various speeds, two-arm sedimentation attachment, plain and graduated tubes; connects with incandescent lamp socket;
 - For direct current of 110 or 120 volts 25 00
 - For direct current of 220 volts 27 50
 - For alternating current of 110 or 220 volts 30 00
- When ordering specify voltage, and if alternating current state number of cycles.
- 3645.* Speedometer 3 00
- 3646.* Sedimentation Tube, not graduated, for urine 15
- 3647.* " " graduated, for urine 35
- 3648.* " " graduated, for milk, for obtaining percentage of fat 50
- 3649.* Pipette, graduated to 1 c.c., for acid or for filling milk tubes, etc. 15

All articles illustrated are designated by a *.

Section VIII.

Microscopes.

STAND BH.



3701

This Microscope is the most suitable ever offered for most school work. It will be found in the largest and best equipped laboratories where it has been installed after critical and thorough tests. At the unusually low price at which the BH is offered it is without a peer.

The pillar is of one piece with the horseshoe base and made with inclination joint.

The handle type of the arm is original with Bausch & Lomb; grooved so that the mechanical stage may be attached, and with a distance of 50 mm. to the center of the stage. The fine adjustment is completely encased in the arm, thus preventing mechanical injury and the drying out of the lubricant.

The mirror is 50 mm. in diameter, plane and concave, adjustable on a swinging arm for oblique illumination.

The stage measures 88 x 96 mm.; it has vulcanite top and spring clips.

An iris diaphragm is mounted beneath the stage and may be easily removed when desired. Screw threads for the substage ring are provided.

Coarse adjustment is made by standard rack and pinion; fine adjustment by the Bausch & Lomb improved sensitive lever, which cannot break the cover glass, since the lever is disengaged as soon as the objective comes into contact with the cover. The micrometer screwhead is locked.

The body tube has society screw and graduated draw tube adjustable in a cloth lined sleeve. Low power objectives may be attached to the draw tube.

The European standard size eyepieces are used.

3701. Bausch & Lomb Microscope. *Illustration shows BH4 outfit.*

BH1, with 16 mm. and 4 mm. objectives and 7.5 X eyepiece \$27 50

BH2, with 16 mm. and 4 mm. objectives, 7.5 X eyepiece and circular double nosepiece 31 50

BH3, with 16 mm. and 4 mm. objectives and 5 X and 10 X eyepieces . 29 00

BH4*, with 16 mm. and 4 mm. objectives, 5 X and 10 X eyepieces and circular double nosepiece 33 00

Substance Ring and Abbe Condenser 1.20 N. A., extra, \$8.50.

Attachable Mechanical Stage, new construction, in velvet lined morocco case, extra, \$17.00.

Each microscope is furnished in a polished mahogany case with lock and key, and with it is also supplied a copy of "Use and Care of the Microscope," by Edward Bausch.

Microscopes.

STAND BB.

The BB Microscope is more widely used than any compound microscope of equal class. Its durability, completeness and general excellence commend it to the school, hospital and physician. It is supplied with either simple screw substage or a swing-out condenser as illustrated. A swing-out condenser will be appreciated in examinations where a quick change from parallel to convergent light is desirable.

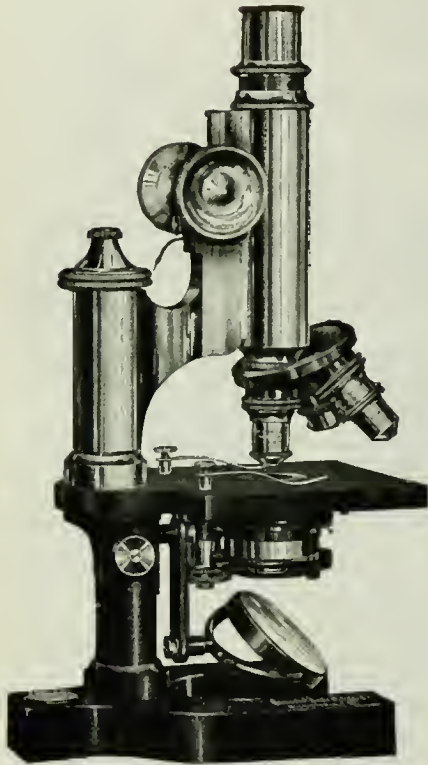
The pillar is mounted on large horse-shoe base and made with inclination joint and stop by which the instrument is maintained horizontally when fully inclined.

The arm is grooved to permit the attachment of the mechanical stage, and with a distance of 55 mm. to the center of the stage thus permitting the standard Petri dishes to be used.

The mirror is of 50 mm. diameter, plane and concave and mounted on a swing-in arm for oblique illumination. A click indicates the central position.

The stage is of size 95 x 98 mm. with vulcanite top and spring clips.

The substage is focused by a quick acting screw and consists of a mounting for the Abbe condenser and an iris diaphragm which comes into the plane of the stage. The condenser also has an iris dia-



3703

phragm. Constructed to permit the condenser to be swung out independently (\$5 00 extra), or furnished without this device.

Coarse adjustment is made by standard rack and pinion; fine adjustment by the well known prism form with micrometer screw the head of which is graduated in intervals of 5 microns.

The body tube has society screw and graduated draw tube which slides in a cloth-lined sleeve and has threads for the attachment of very low power objectives. European standard size eyepieces are used.

3703. Bausch & Lomb Microscope. The physician's standard instrument for bacteriological, blood, urine, sputum and all clinical work.

Illustration shows the BB8 outfit with down-swing condenser carrier.

BB1, with 16 mm. and 4 mm. objectives and 7.5 X eyepiece	\$36 50
BB2, with 16 mm. and 4 mm. objectives, 7.5 X eyepiece and circular double nosepiece	40 50
BB3, with 16 mm. and 4 mm. objectives and 5 X and 10 X eyepieces . .	38 00
BB4, with 16 mm. and 4 mm. objectives and 5 X and 10 X eyepieces, and circular double nosepiece	42 00
BB6, with 16 mm. and 4 mm. objectives, 5 and 10 X eyepieces, circular double nosepiece and Abbe condenser 1.20 N. A.	49 50
BB8*, with 16 mm. and 4 mm. dry objectives, 1.9 mm. oil immersion objective, 5 X and 10 X eyepieces, circular triple nosepiece and Abbe condenser 1.20 N. A.	75 00

Above quotations are for screw substage with regular swing-out condenser.

For screw substage with down-swing condenser carrier add \$5 00 to price of each outfit.

Attachable Mechanical Stage, new construction, in velvet lined morocco case, extra, \$17.00.

Each microscope is furnished in a polished mahogany case with lock and key, and with it is also supplied a copy of "Use and Care of the Microscope," by Edward Bausch.

Microscopes.

STAND BBH.

This instrument is designed for general work as well as for research work of an exacting nature. It is recommended for college and commercial laboratories, the bacteriologist and the physician.

It is the most advanced type of the BB stand, having the new handle arm and the fine adjustment by lever.

The pillar is mounted on a large horseshoe base and provided with inclination joint and stop.

The arm is of the handle type, grooved for the attachment of the mechanical stage and with a distance of 57 mm. to the center of the stage. The fine adjustment is completely encased in the arm and is thus fully protected.

The mirror is of 50 mm. diameter, plane and concave and mounted on a swinging-arm for oblique illumination. A click indicates the central position.

The stage is of size 106 x 115 mm., with vulcanite top, spring clips and black edges. The large size makes it well adapted for 2 x 3 inch slides and Petri dishes.

The substage consists of a mounting for the Abbe condenser and an iris diaphragm which comes into the plane of the stage.

The condenser also has an iris diaphragm. The entire substage is focused by a quick acting screw. Coarse adjustment is made by standard rack and pinion; lever fine adjustment with micrometer screwhead graduated in intervals of 5 microns.

The body tube has society screw, graduated draw tube with threads for very low power objectives. European standard size eyepieces are used.

3705. Bausch & Lomb Microscope. Advanced model for physician and laboratory.

Illustration shows the BBH8 outfit with down-swing condenser carrier.

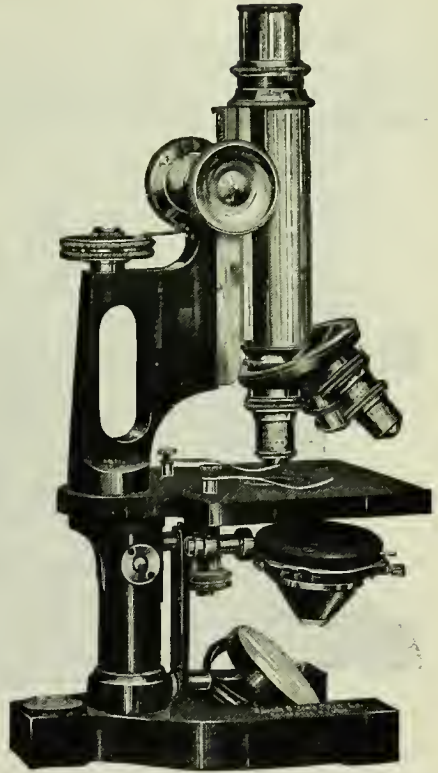
BBH1, with 16 mm. and 4 mm. objectives and 7.5 X eyepiece	\$41 50
BBH2, with 16 mm. and 4 mm. objectives, 7.5 X eyepiece and circular double nosepiece	45 50
BBH3, with 16 mm. and 4 mm. objectives and 5 X and 10 X eyepieces	43 00
BBH4, with 16 mm. and 4 mm. objectives, 5 X and 10 X eyepieces, and circular double nosepiece	47 00
BBH6, with 16 mm. and 4 mm. objectives, 5 X and 10 X eyepieces, circular double nosepiece and Abbe condenser 1.20 N. A.	54 50
BBH8*, with 16 mm. and 4 mm. dry objectives, 1.9 mm. oil immersion objective, 5 X and 10 X eyepieces, circular triple nosepiece and Abbe condenser 1.20 N. A.	80 00

Above quotations are for screw substage with regular swing-out condenser.

For screw substage with down-swing condenser carrier add \$5 00 to the price of each outfit.

Attachable Mechanical Stage, new construction, in velvet lined morocco case extra, \$17.00.

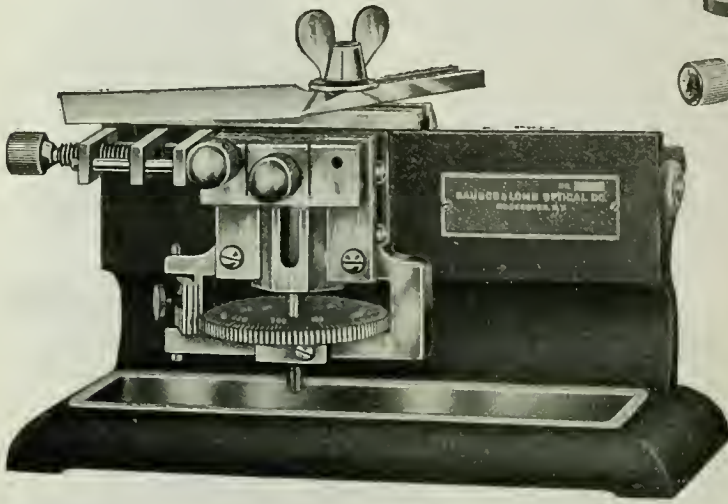
Each microscope is furnished in a polished mahogany case with lock and key and with it is also supplied a copy of "Use and Care of the Microscope," by Edward Bausch,



3705

Microtomes.

We sell almost exclusively the Bausch & Lomb Optical Co.'s Microtomes which are admittedly the standards of the world, and while we illustrate but several of the more simple patterns, it is merely for lack of space, for we are prepared to furnish any style of instrument made by that firm.



3711



3713

- 3711.* Physician's and Laboratory Microtome, with shanked knife of 90 mm. cutting edge \$25 75

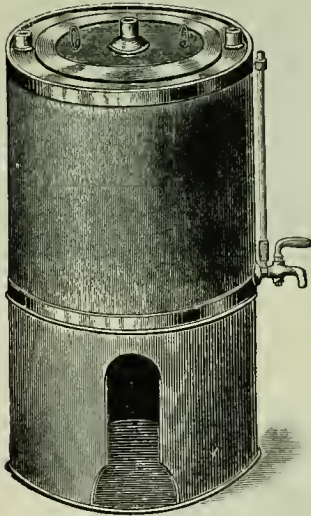
This instrument has been designed for individual and laboratory use to supply the demand for a reliable microtome at small cost. The stand is solid metal, cast in one piece, neatly finished. It has a V slide such as is furnished on the larger and more expensive instruments, and the slide contains a T-slot to which the clamp holder is attached. The object clamp is adjustable in one plane, and can be set for paraffin or celloidin cutting. The feed arrangement consists of an accurately cut micrometer screw having a pitch of 0.5 mm., with a graduated head divided into 100 parts, so that each graduation has a value of 5 microns. Dimensions: Length, 225 mm.; height, 146 mm. Supplied in strong wooden box with handle.

- 3712. Laboratory Microtome. Length, 300 mm.; height, 135 mm.; with shanked knife of 125 mm. cutting edge; in strong wooden box with handle 52 50
- 3713.* Hand Microtome. This convenient little model has an accurate feed, with graduations indicating 25 microns each 6 00
- 3714. CO₂ Freezing Microtome, Bardeen's, without knife 20 00

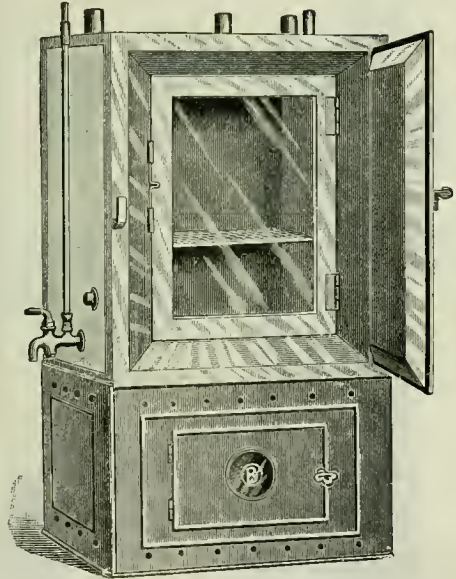
We supply for use in conjunction with this microtome:
 Steel Cylinder filled with 20 lbs. liquid CO₂, with wall straps and wrench \$20 00
 Refilling Cylinder (all transportation charges at purchaser's expense) 3 50

- 3714a. Ether Freezing Attachment, with double bulb 8 00

Bacteriological Incubators.



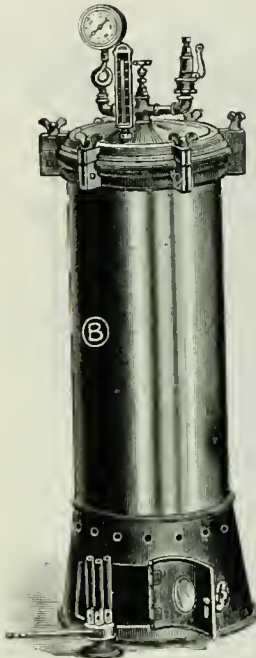
3735



3738

- | | | |
|--------|--|---------|
| 3735.* | Incubator, small, for physicians and others who desire to make only a small number of cultures at a time; made of polished copper, with a 2-inch water space and covered with an insulating material; provided with a perforated tray, water gauge and stopcock. Inside measurements, 8 x 9 inches | \$14 00 |
| 3736. | " square form, with double wall and water space only; otherwise same construction as our triple wall incubators No. 3738; with one shelf. Inside measurements, 10 x 8 x 8 inches | 32 00 |
| 3737. | " same as No. 3736, but with two shelves and of inside measurements 12 x 10 x 10 inches | 37 50 |
| 3738.* | " with triple wall; made of highly polished copper; with conical bottom, having both air and water space all around, the outer surface covered with an insulating material to insure an even temperature. It is provided with two doors, the inner one of beveled glass, the outer of copper, double walled, with felt buffers, making it airtight. It has tubes for thermometer, thermo regulator, and for filling water space. The control of the temperature in the air space is effected by a ventilator on top of the oven. The base is made of sheet iron, 10 inches high, having a door with an opening covered with mica for observation of the flame. With one shelf. Inside measurements, 9 x 7 x 7 inches | 30 00 |
| | 12 x 9 x 9 " | 37 50 |
| 3739. | " same as No. 3738, but with two shelves and of inside measurements 14 x 12 x 10 | 50 00 |
| | Koch Safety Burner, Reichert's Thermo Regulator, Thermometer and Rubber Tubing for use with any of above Incubators | 8 50 |

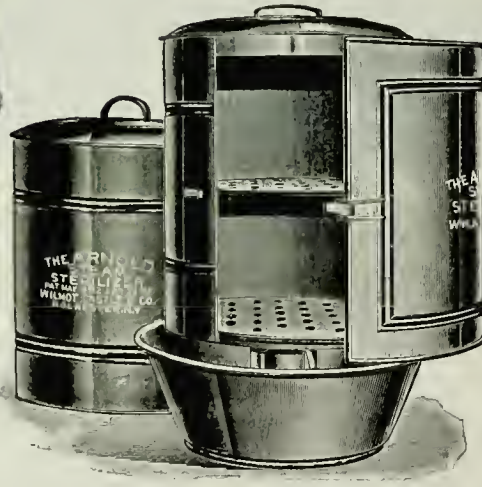
Hot Air and Steam Sterilizers.



3745



3740

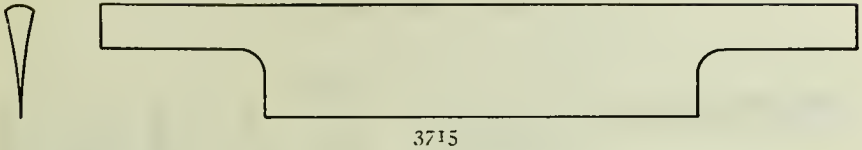


3742

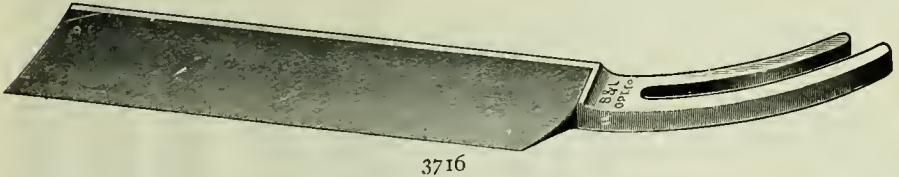
- 3740.* Hot-Air Sterilizer, upright pattern, rectangular; for sterilizing test tubes, flasks, etc., by dry heat. Eyelets provided for hanging on wall. Inside measurements 12 x 9 x 9 inches \$13 50
- 3741. " " oblong, without eyelets; otherwise like No. 3740. 9 x 12 x 9 inches 11 50
- 3742.* Steam " will maintain an unvarying temperature of 100° C. in all parts of the sterilizing chamber:
 - Heavy tin, copper bottom, 11½ x 10½ inches 5 00
 - All copper, polished, 11½ x 10½ " 15 00
- 3744. " " Boston Board of Health Pattern, square, all copper, double walls and double doors;
 - 14 x 8 x 8 inches 35 00
 - 16 x 12 x 12 " 40 00
- 3745.* Autoclav, copper, tin lined; stands 35 lbs. pressure to the square inch; including Bunsen burner with four tubes; 24 x 11 inches 55 00

All articles illustrated are designated by a *.

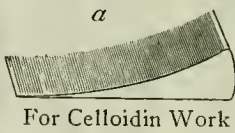
Microtome Knives.



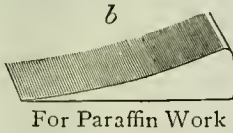
3715



3716



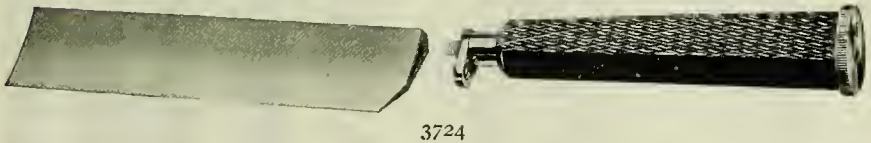
For Celloidin Work



For Paraffin Work



For Frozen Sections



3724

3715.*	Minot Microtome Knife, length 315 mm., in case	\$15 00
3716.*	Shanked " " in case; cutting edge 90 mm., \$3 75; 125 mm., \$7 50; 165 mm.	9 00
3724.*	Plain " " 90 mm., \$2 50; with holder	4 00
	125 " 5 00; " "	6 75
	165 " 6 00; " "	8 00

Handle (illustrated) for sharpening, \$1 00 extra.

3725.	Chisel-shaped Microtome Knife, for use with freezing microtomes . .	4 00
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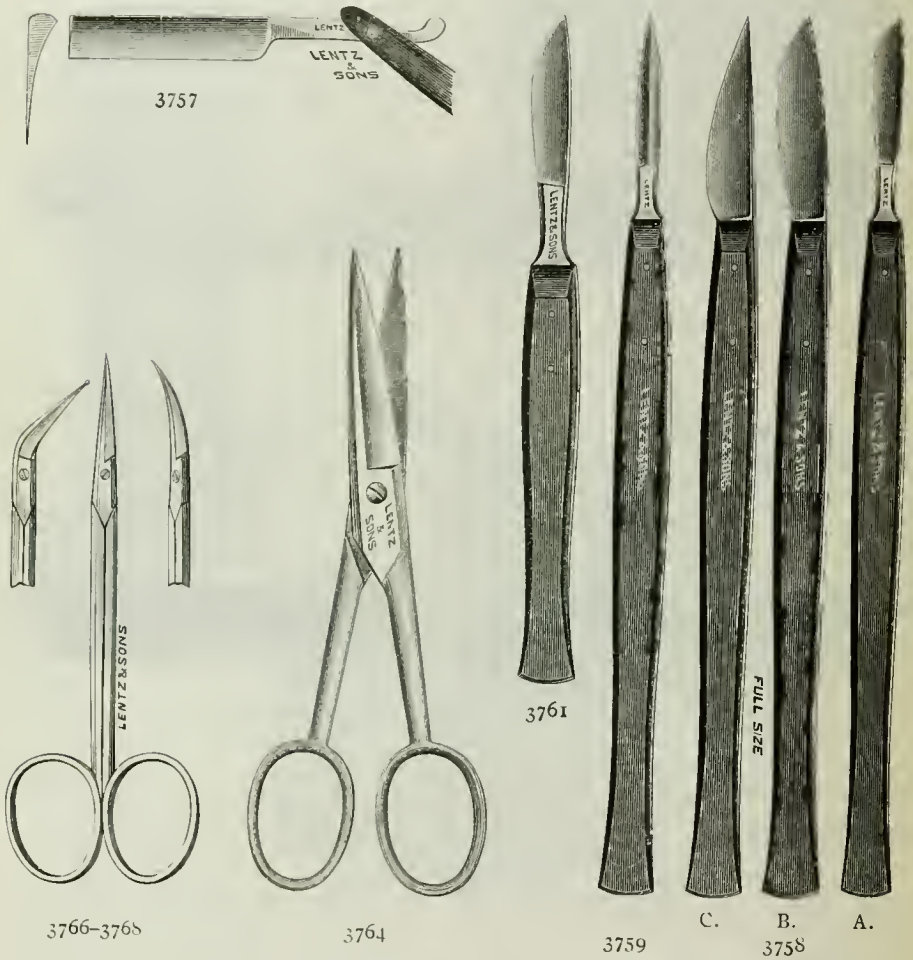
These knives are made of the very best tool steel. They are *hand forged*, properly tempered, of the very highest attainable quality, and are best suited for work in microtomy. Each knife is thoroughly tested before it is sent out and we guarantee its perfectness. They are manufactured in our own factory.

Unless otherwise ordered, knives are always sent of section *b*, which is suited for both paraffin and celloidin work.

3722.	Grinding and Honing Microtome Knives; cutting edge 90 to 100 mm., 40c.; 100 to 115 mm., 50c.; 115 to 125 mm., 60c.; 125 to 140 mm., 75c.; 140 to 150 mm., 85c.; 150 to 165 mm., \$1 00; 165 to 180 mm.	1 25
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*All articles illustrated are designated by a *.*

Dissecting Instruments.



3757.*	Section Razor, fine quality, flat on one side		
3758.*	Scalpels, fine quality, ebony handles, with thin, delicate blades for fine animal dissection and for botany. Manufactured in our own factory and hand-forged from the finest English steel. Fig. "A" is the most desirable shape. Figs. A, B, C	each	\$1 25
3759.*	" " double edge, ebony handle	each	50
3760.	Tenaculum,		60
3761.*	Scalpel, four sizes, ebony handles, fine quality	each	50
3762.	" " metal handles	"	40
3763.*	Cartilage Knife, all steel, with 2 inch blade		40
3764.*	Dissecting Scissors, heavy, straight, 4 1/2 inch long		40
3765.	" " " curved, 4 1/2 " "		35
3766.*	" " " fine, straight blades		60
3767.*	" " " curved " "		75
3768.*	" " " angular " "		75
		I	00

All instruments illustrated are designated by a *.

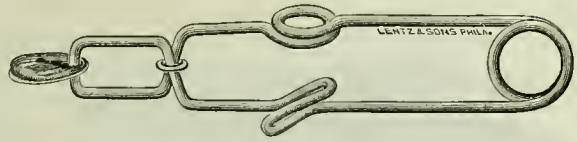
Bacteriological Staining Forceps. Syringes.



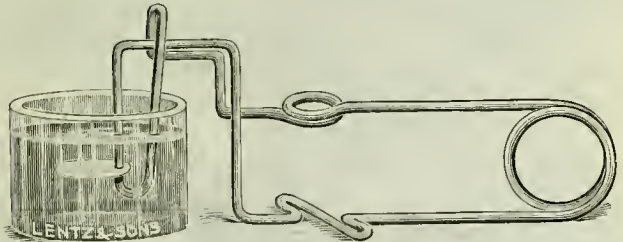
3771



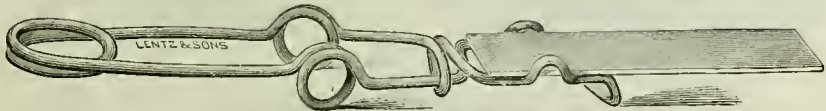
3770



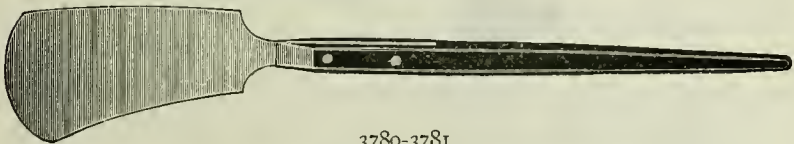
3773



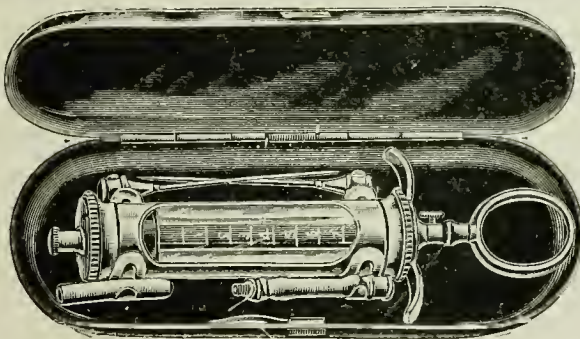
3775



3776



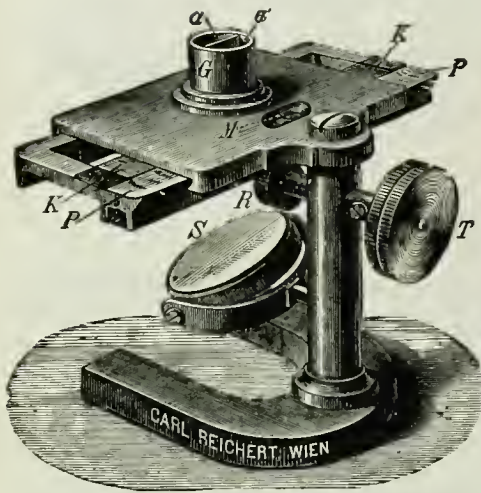
3780-3781



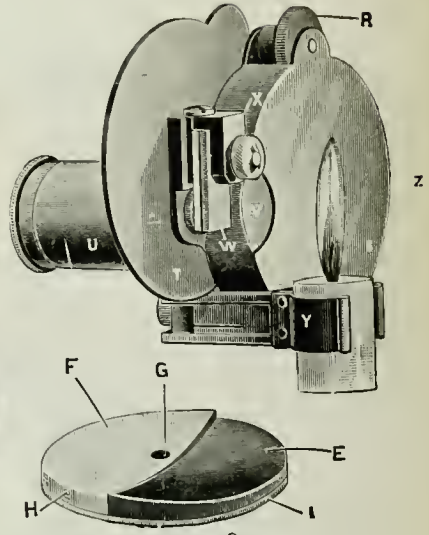
3784

3770.*	Forceps, straight, fine points, 4½ inches long, well made and finished . . .	\$0 50
3771.*	“ curved, “ “ “ “ “ “ “ “ “ “ . . .	60
3773.*	Staining Forceps, Lentz’s, brass wire, nickel-plated, cannot rust . . .	15
3774.	“ “ Stewart’s, “ “ “ “ “ “ “ “ . . .	25
3775.*	“ “ Kalteyer’s, for staining on the cover or in a Stender dish . . .	25
3776.*	“ “ Boston’s, for staining on slide . . .	30
3780.*	Section Lifter, McFarland’s, German silver, heavy at shank . . .	40
3781.*	“ “ Coplin’s, hard rubber . . .	35
3783.	Toxin Syringe, 5 c.c., all metal, with metal plunger and two needles . . .	3 50
3784.*	“ “ 5 c.c., glass barrel with rubber packing and two needles . . .	2 50
3785.	“ “ 5 c.c., Luer’s, all glass, with two needles . . .	5 50

Blood-Testing Instruments.



3790



3789



3793

- 3790.* Hemometer, Von Fleischl's. A standard instrument for obtaining the percentage of hemoglobin in the blood, by dilution of a fixed quantity with a measured amount of distilled water and comparing the resulting color with successive parts of a glass wedge of permanent and increasing depth of color. Price, complete in case \$24 00
Extra Capillary Tubes, each, \$0.30.
- 3791. Hemoglobinometer, Gower's. In this instrument a measured amount of blood is taken and diluted with distilled water in a graduated tube until it is of the same color as a tinted tube provided, when the percentage is read off on the scale. Accurate to within about 5 to 10 per cent. In case 2 50
- 3789.* Hemoglobinometer, Dare's. The application of this instrument is based upon the colorimetric principle, but differs from that operative in the instruments of von Fleischl or Gower in the employing of *undiluted* blood. An illuminated white back-ground renders the leukocytes luminous and not apparent to the eye. A complete examination may be made in one to two minutes 22 50
- 3792. Blood Lancet, aseptic, Lentz's. The lance is guarded from patient's view; any depth of incision can be obtained and maintained by the locknut; nickel-plated. Can be safely and conveniently carried in the vest pocket I 00
- 3793.* " " aseptic. Dr. Judson Daland's improvement, broad narrow lance at one end and trocar point at other end, with locknuts, nickel-plated I 50
- 3786. " " Moore's. with spring I 50
- 3787. " " "Ann Arbor," folding, in aluminum handle 50
- 3788. " " Swan's or "London" 25

All articles illustrated are designated by a *.

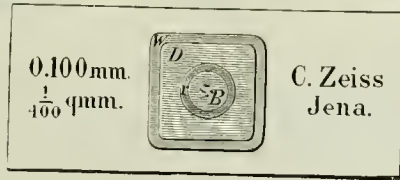
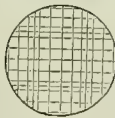
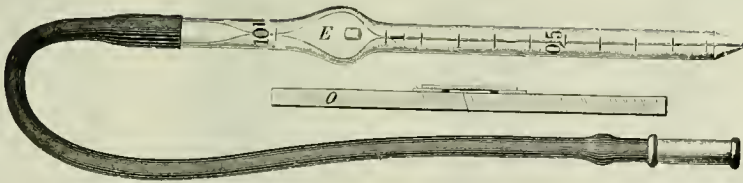
Blood-Testing Instruments.



3794



3796

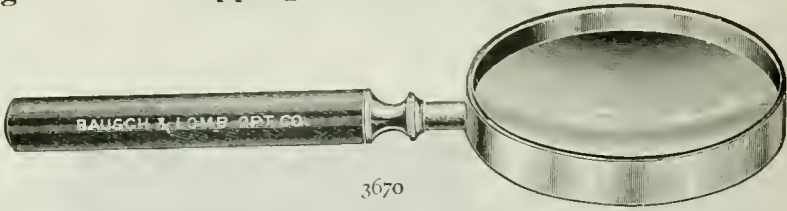


3795-3796

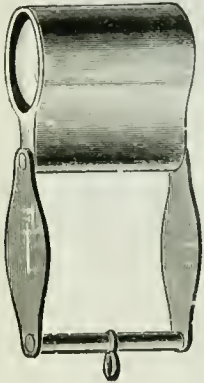
- 3794.* Hemoglobin Scale, Tallquist's. Tests are made by comparing blood-stained filter paper with a set of printed color standards. In book form. Complete for 150 tests \$1 50
- Hemacytometer, Thoma-Zeiss.** For counting the number and ascertaining the percentage of red or white corpuscles in human blood. A standard instrument, made by Zeiss-Jena. A measured quantity of blood in a capillary pipette is diluted with a normal solution in known proportions; a drop of this mixture is deposited upon a small sunken glass platform, and a cover placed thereon. This platform is ruled into minute squares, and the number of corpuscles in a number of squares are counted with the medium power objective lens of a microscope.
- 3795.* Hemacytometer, with pipette for either red or white corpuscles, in case each \$9 20
- 3796.* " " pipettes for both red and white corpuscles, in case 12 00
3797. " Pipette for red corpuscles, 1:100 2 40
3798. " " white " 1:10 2 40
3800. Cover Glass, either 0.4 or 0.6 mm. thickness 30
3801. " " 0.18 mm thickness, cemented to heavy conical glass cell 1 20
3802. Counting Chamber, Thoma's, without case 5 20
3803. " " Zappert's, " " 5 20
3804. " " Zappert-Ewing's, without case 6 40
3806. " " Tuerck's, " " 7 20
3807. " " Neubauer's, " " 7 20
- Cases, 75 cents extra.

All articles illustrated are designated by a *.

Magnifiers. Dropping Bottles. Slides. Cover Glasses.



3670



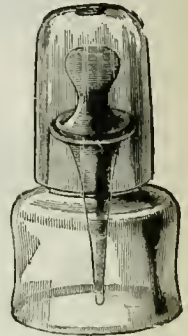
3660



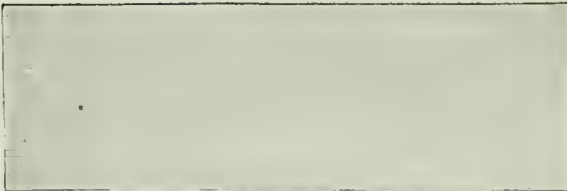
3751



3752



3753



3811



3816

3660.*	Aplanatic Triplet, 1/2-inch, 3/4-inch or 1-inch focus	each \$4 00
3665.*	Magnifier, folding, one lens; 3/4 in. diam., 20c.; 1 in. diam.	30
3666.*	“ “ two lenses; 5/8 and 3/4 in., 35c.; 7/8 and 1 in.	50
3667.*	“ “ three lenses; 1/2, 5/8 and 3/4 in., 50c.; 5/8, 3/4 and 7/8 in., 60c.; 3/4, 7/8 and 1 in.	80
3669.	Simple Microscope, on brass tripod	50
3670.*	Reading Glass, nickel-plated rim, black handle; 2 in., 80c.; 2 1/2 in., \$1 00; 3 in., \$1 50; 3 1/2 in., \$2 00; 4 in., \$2 50; 4 1/2 in., \$3 25; 5 in., \$4 00; 5 1/2 in., \$5 00; 6 in.	6 00
3751.*	Dropping Bottle, German form, 30 c.c., 20c.; 60 c.c.	25
3752.*	“ “ with rubber nipple, 30 c.c.	25
3753.*	Balsam Bottle, with ground glass cap, 30 c.c.	25
3754.	Cedar Oil Bottle, small, in nickel-plated case	1 00
3811.*	Glass Slides, 3 x 1 in., ground edges, extra thin per 100	75
3812.	“ “ 3 x 1 in., with concave center doz.	1 00
3814.	Cover-Glasses, Squares, No. 1, diam., 1/2, 5/8, 3/4, 7/8 or 1 in., per half ounce	45
3815.	“ “ No. 2, “ 1/2, 5/8, 3/4, 7/8 or 1 in., “ “ “	40
3816.*	“ “ Circles, No. 1, “ 1/2, 5/8, 3/4, 7/8 or 1 in., “ “ “	45
3817.	“ “ No. 2, “ 1/2, 5/8, 3/4, 7/8 or 1 in., “ “ “	40
3820.	Cabinet, portable, for 72 slides, with 12 trays	2 75
3821.	“ “ for 432 slides, with 36 trays, and with lock and drawer	10 00
3822.	Boxes for 25 slides, Pillsbury's 10c. each; per doz.	1 10

All articles illustrated are designated by a *

Microscopic Stains, Dry.

FROM THE LABORATORY OF DR. G. GRÜBLER & CO., LEIPSIK.

Azur I	I gram	\$2 50
“ II	I “	I 25
“ II, Eosin	I “	I 88
Bismarck Brown	10 “	20
Eosin, Yellowish, soluble in water	10 “	30
“ Bluish, “ “	10 “	25
“ soluble in alcohol	10 “	30
“ Methylene Blue, Jenner-May-Grünwald's	10 “	I 65
“ “ “ Leishman's	10 “	3 50
Fuchsin, for bacilli	10 “	25
“ S (Acid Fuchsin)	10 “	30
Gentiana Violet	10 “	25
Hematoxylin	10 “	65
Jenner's Stain	10 “	I 65
Methylene Blue, for bacilli	10 “	30
Romanowsky's Stain	10 “	3 50
Wright's Stain	I “	40

Staining Material, in Solution.

MADE FROM GRÜBLER'S STAINS.

Aniline Water Gentian Violet	I ounce	25
Azur II	I “	25
Biondi-Ehrlich-Heidenhain's Triple Mixture	I “	30
Carbol Fuchsin, Ziehl-Nielson's	I “	25
Ehrlich's Triacid Solution	I “	50
“ Triple Mixture	I “	60
Eosin	I “	25
Gabbet's Solution	I “	25
Giemsa's Stain	I “	25
Goldhorn	I “	50
Hematoxylin, Delafield's	I “	40
Jenner's Eosinate of Methylene Blue	I “	30
Leishman's Blood Stain	I “	30
Loeffler's Methylene Blue	I “	25
Toisson's Solution	I “	25
Wright's Stain	I “	40

While we list only a limited number of the more frequently used stains, we carry in stock and can furnish immediately any Grüber's Stains desired.

We also carry a complete line of the Burroughs, Wellcome & Co., London, Dry Stains in Tablet Form. Booklet on application.

When ordering to be sent by mail add 5c. for postage on Dry Stains and 12c. for container and postage on Solutions.

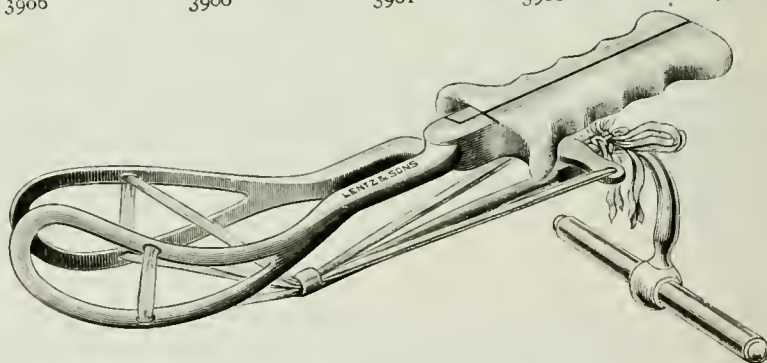
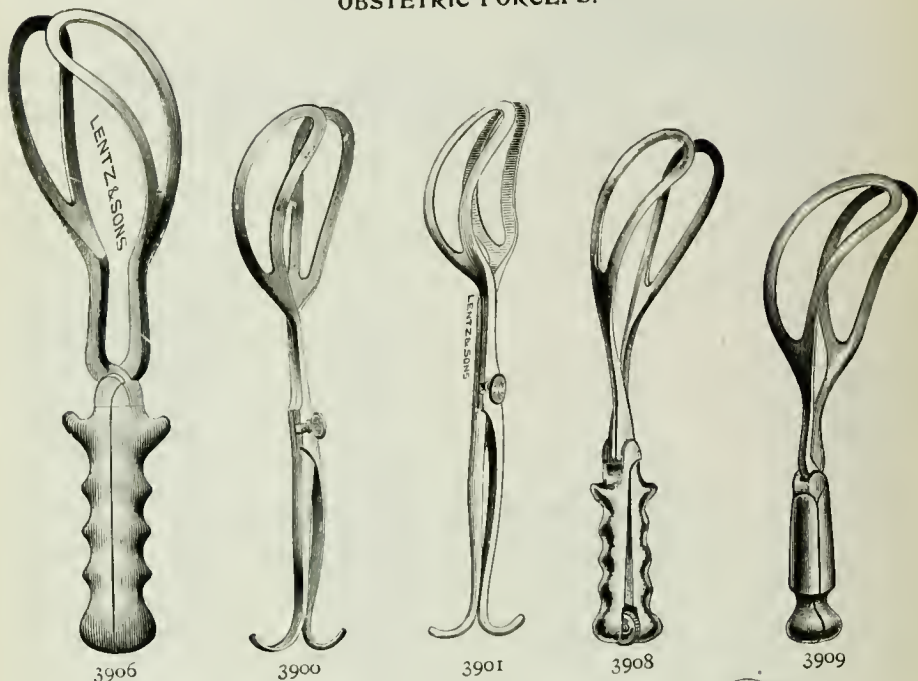
Mounting Media.

3831. Canada Balsam, natural, paper filtered	per 20 c.c. tube	\$0 25
3832. “ “ dissolved in Xylol	“ “ “	30
3834. Celloidin, Schering's	per ounce	90
3836. Cedar Oil	“ “	40
3840. Paraffin, melting point 43° C.	per pound	25
3841. “ “ “ 52° C.	“ “	25
3844. Agar-Agar, best quality, in shreds	“ “	I 00
3846. Gelatin, gold label	“ “	75

SECTION IX.

Obstetrical Instruments.

OBSTETRIC FORCEPS.



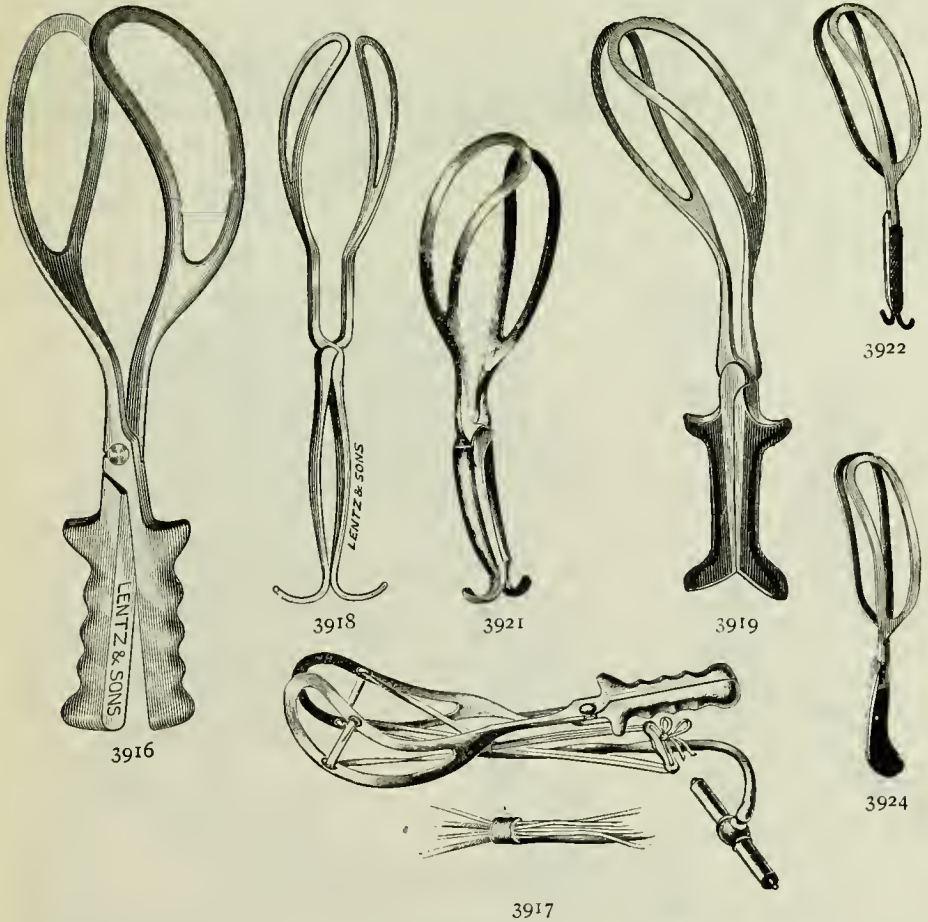
3911

All Obstetric Forceps are of our own manufacture, hand-forged, and priced as low as superior quality instruments can be sold for.

3900.*	Obstetric Forceps,	Hodge's	.....	\$4 00
3901.*	"	Wallace's	.....	5 50
3902.	"	Comstock's	.....	6 00
3903.	"	Bedford's	.....	6 00
3904.	"	Bethel's	.....	6 00
3905.	"	Simpson's, short	.....	5 50
3906.*	"	" long	.....	5 50
3907.	"	"	with axis-traction rod and tapes, all metal	9 50
3911.*	"	"	modified by E. P. Davis, with axis-traction rod and tapes, all metal	10 50
3912.	"	"	mod. by E. P. Davis, without traction rod	6 50
3908.*	"	Elliot's, with aseptic set screw handle	.....	5 00
3909.*	"	Davis'	.....	6 00

Obstetric Instruments.

OBSTETRIC FORCEPS.



3915.	Obstetric Forceps, Broomall's modified Simpson's	\$6 50
3916.*	" " Parvin's modified Davis'	6 00
3917.*	" " " with axis-traction rod and tapes	10 00
3918.*	" " Benjamin's	6 00
3919.*	" " Jenks,' long	6 00
3920.	" " " short	5 00
3921.*	" " Sawyer's, long	5 00
3922.*	" " " short	4 50
3924.*	" " Hale's, short	4 50
3925.	" " " " , with Hirst's modified handle	5 00
3926.	" " Braun's modified Simpson's	6 50
3927.	" " Reamy's	5 50
3928.	" " McLean's, with solid blades	7 00

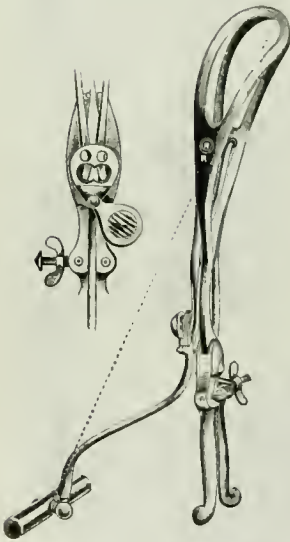
*All instruments illustrated are designated by a *.*

Obstetric Instruments.

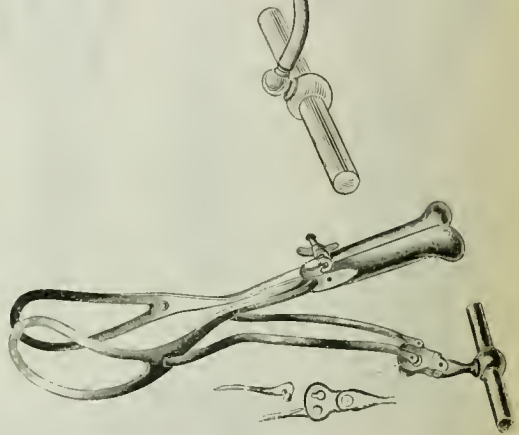
OBSTETRIC FORCEPS, AXIS-TRACTION.



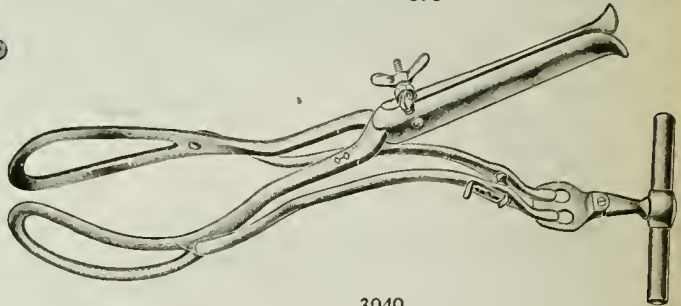
3934



3935



3936



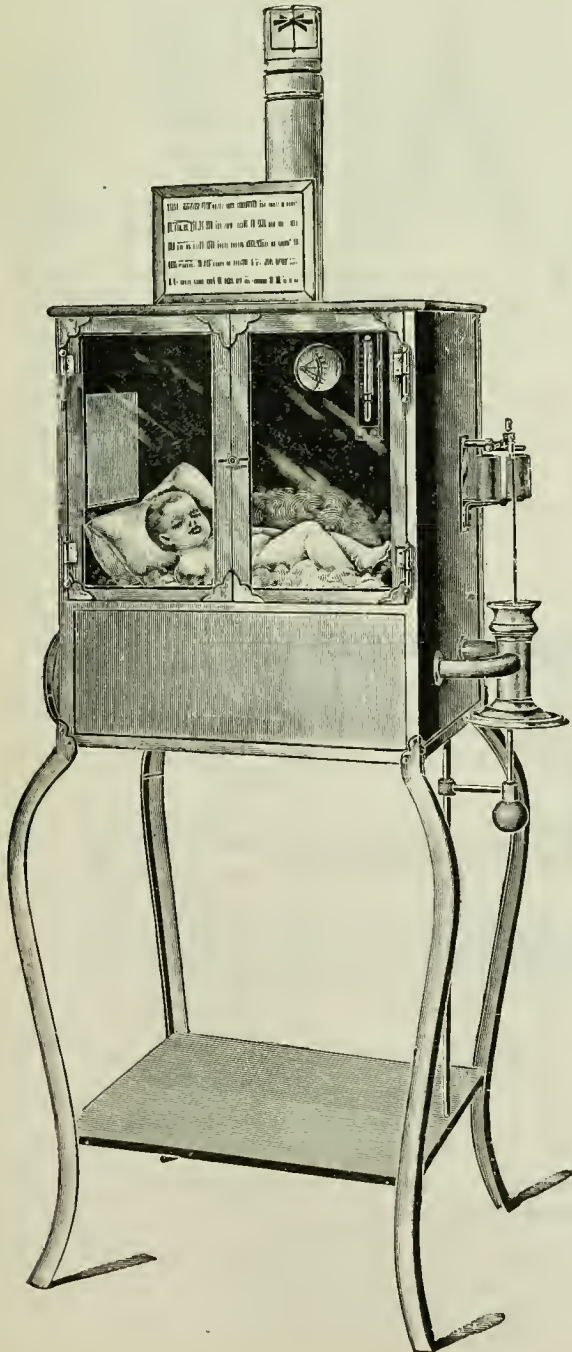
3940

3934.*	Axis-Traction Obstetric Forceps,	Tarnier's	\$16 00
3935.*	“ “ “ “	Jewett's	15 00
3936.*	“ “ “ “	Simpson's latest	18 00
3940.*	“ “ “ “	Milne Murray's	13 50
3941.	“ “ “ “	Dewees'	15 00
3946.	“ “ “ “	Lusk's	20 00
3947.	“ “ “ “	Felsenreich's	19 00
3938.	“ “	Rods, Reynolds', applicable to most any forceps	2 50
3939.	Handle Clamp, Reynolds', for locking handles; used in conjunction with axis-traction rods		1 50

Automatic Couveuse.

3956.* INFANT INCUBATOR

For the Nurture of Prematurely Born or Weak Infants..... \$150 00



Constructed entirely of steel, aluminum bronzed. The compartment is 26 inches high, 21 inches front and 22 inches deep; has at one side a sliding window and in front a double glass door set in nickel-plated frames. It is provided with a nickel-plated swinging wire mattress, underneath of which pass the tubes carrying the heated as well as fresh air. There is also a tray for holding water to impart the necessary moisture to the atmosphere, the condition of which is indicated by a hygrometer.

The air is heated by a gas burner at side of the incubator. The temperature is regulated by an electric thermometer registering at 90° F., actuated by four dry cells. In the cylinder extending over the top there is a fan which is set in action by the change of hot and cold air and withdraws any bad air. A chart file is fixed over the top of the compartment.

The incubator rests on a steel frame with shelf. Total height of frame and compartment 59 inches, of the ventilating cylinder 22 inches.

RENTAL.

For emergency cases within a reasonable distance from our establishment, where an infant incubator is required for a short period, we accommodate interested parties with the rental of an apparatus constructed of wood set on an iron stand, similar to No. 3956, which we keep on hand, set up ready for use.

Rental for first week, \$10.00; for every subsequent week or part of week, \$5.00; payable in advance. All transportation charges extra.

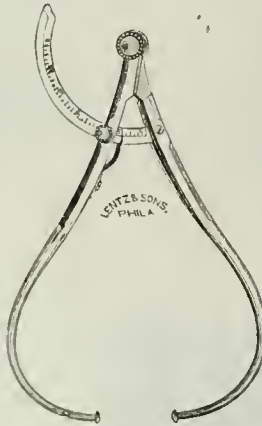
Illustrated descriptive circular on application.

Obstetric Instruments.

PELVIMETERS.



3962



3961



3963

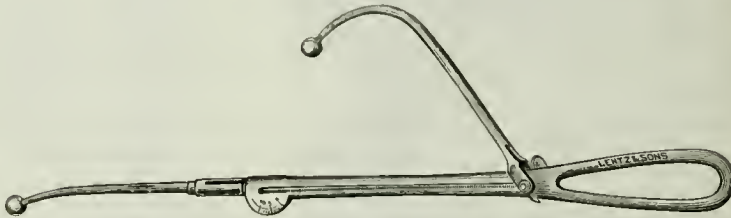


Fig. A.

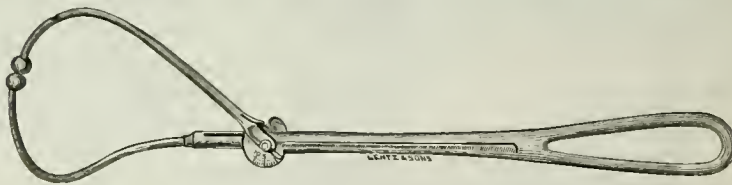


Fig. B.

3964

3960.	Pelvimeter, Collyer's, plain, nickel-plated,	\$2.00;	steel, fine, nickel-plated .	\$2 75
3961.*	“ Martin's,	“	“ “	6 00
3962.*	“ Davis's modified Martin's,	“	“ “	7 50
3963.*	“ Breisky's,	“	“ “	7 00
3964.*	“ Hirst's, with extra tip for measuring outer surface;		steel, fine, nickel-plated	10 00

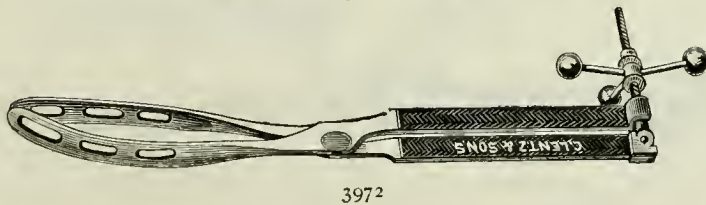
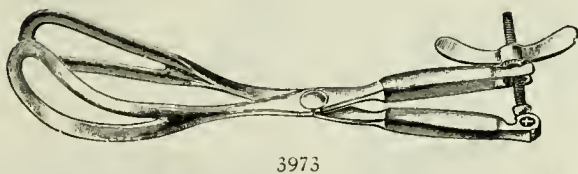
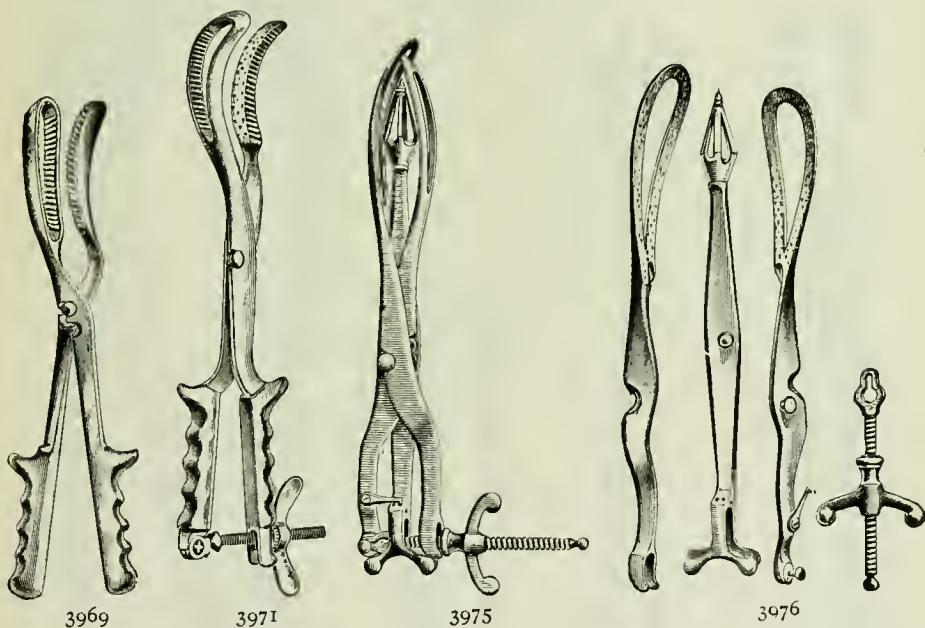
Fig. A, showing the instrument open, as used for measuring distances between outer surface of symphysis, just below the upper edge, and the promontory of the sacrum.

Fig. B, showing the instrument adjusted with a curved tip inserted, for measuring the thickness of the upper part of symphysis.

*All instruments illustrated are designated by a *.*

Obstetric Instruments.

CRANIOCLASTS, CEPHALOTRIBES, ETC.

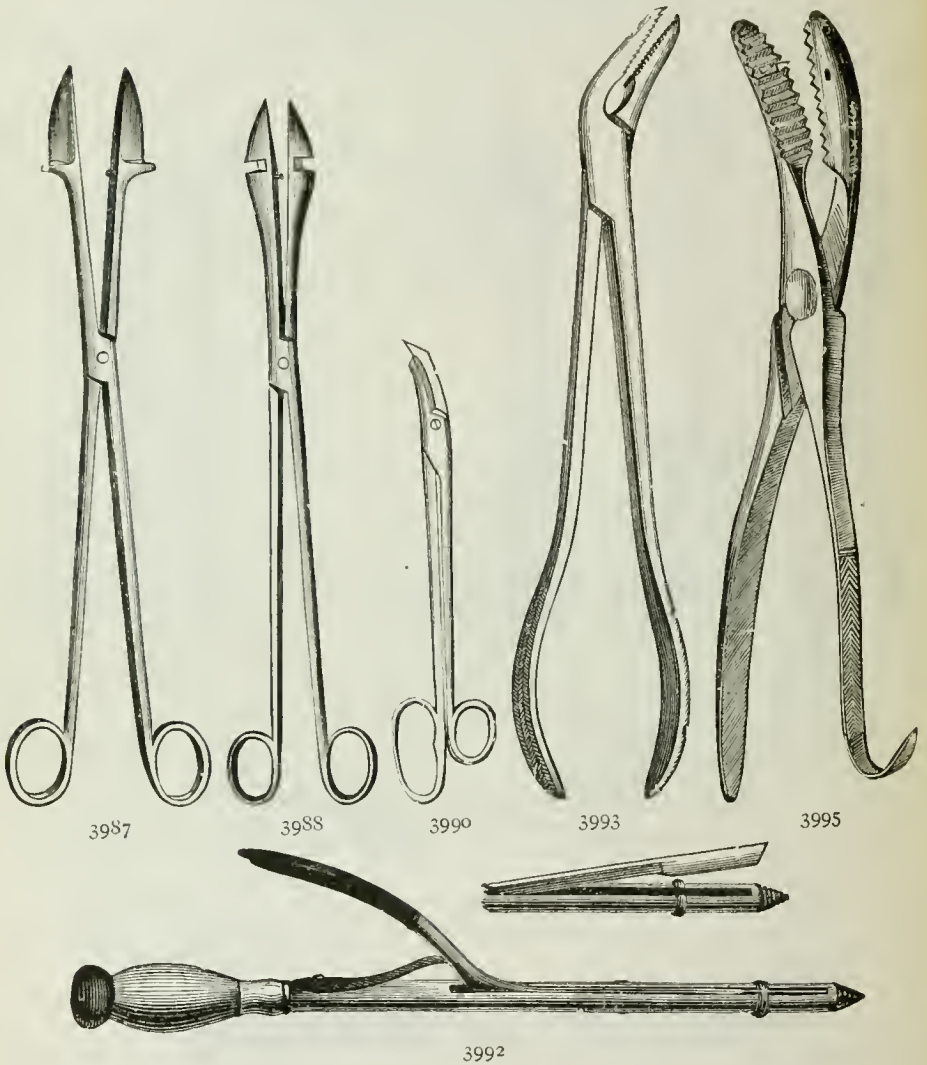


3969.*	Cranioclast, Simpson's	\$7 00
3970.	" Braun's	9 00
3971.*	Cephalotribe, Braun's	18 00
3972.*	" Hodge's.	15 00
3973.*	" Lusk's	15 00
3974.	" Auvard's, combined Cranioclast and Perforator, three parts	20 00
3975.*	Basiotribe, Tarnier's	25 00
3976.*	" " showing separate parts	

*All instruments illustrated are designated by a *.*

Obstetric Instruments.

PERFORATORS AND CRANIOTOMY FORCEPS.

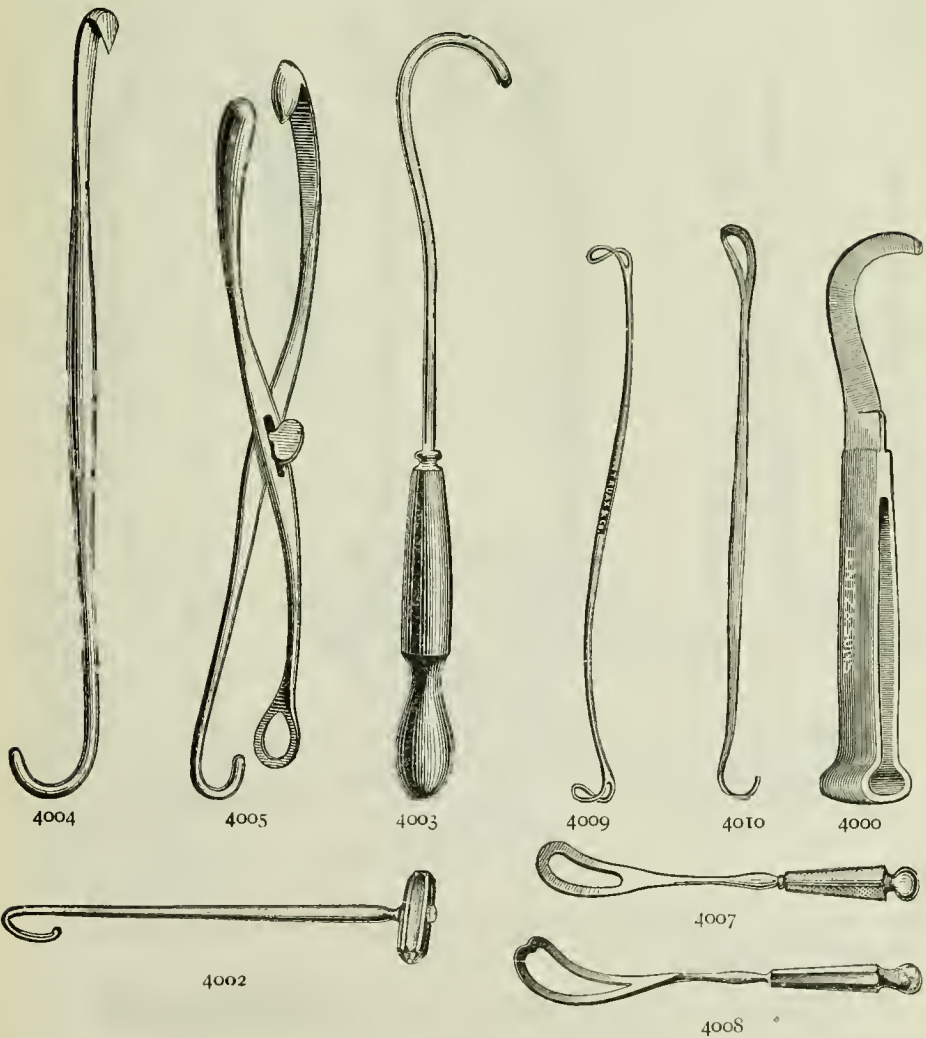


3985.	Perforator, Bedford's	\$2 50
3986.	" Blot's	5 00
3987.*	" Smellie's	2 25
3988.*	" Simpson's	2 50
3989.	" Naegeli's	3 50
3990.*	" Hodge's Scissor	4 50
3991.	" Holmes'	4 50
3992.*	" Thomas', metal handle	6 00
3993.*	Craniotomy Forceps, Meigs', straight or curved, with French joint	3 25
3994.	" " Elliot's, curved, with French joint	3 50
3995.*	" " Thomas'	4 00

*All instruments illustrated are designated by a *.*

Obstetric Instruments.

CROTCHETS, HOOKS AND VECTIS.

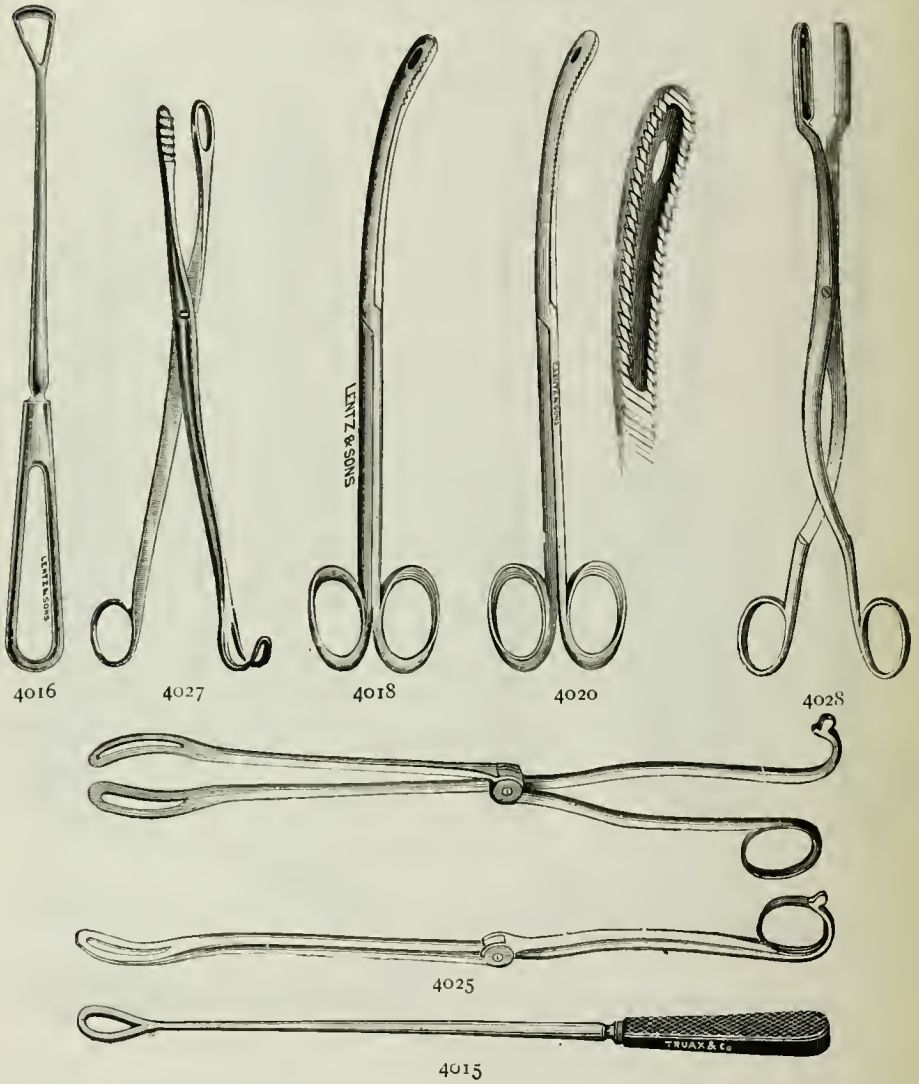


4000.*	Symphysiotomy Knife, Harris-Galbiati's	\$3 25
4001.	Decapitating Hook	1 75
4002.*	“ “ Braun's	2 50
4003.*	Blunt Hook, with metal handle	1 50
4004.*	Blunt Hook and Crotchet, steel	1 50
4005.*	“ “ “ “ guarded, Budd's	4 50
4006.	Crotchet, with metal handle	2 00
4007.*	Vectis, plain, with metal handle	2 00
4008.*	“ White's “ “ “	2 00
4009.*	Placenta Hook, double, steel, Leavitt's	1 00
4010.*	“ “ and Curette, steel, Dewey's	1 00

*All instruments illustrated are designated by a *.*

Obstetric Instruments.

PLACENTA FORCEPS AND CURETTES.

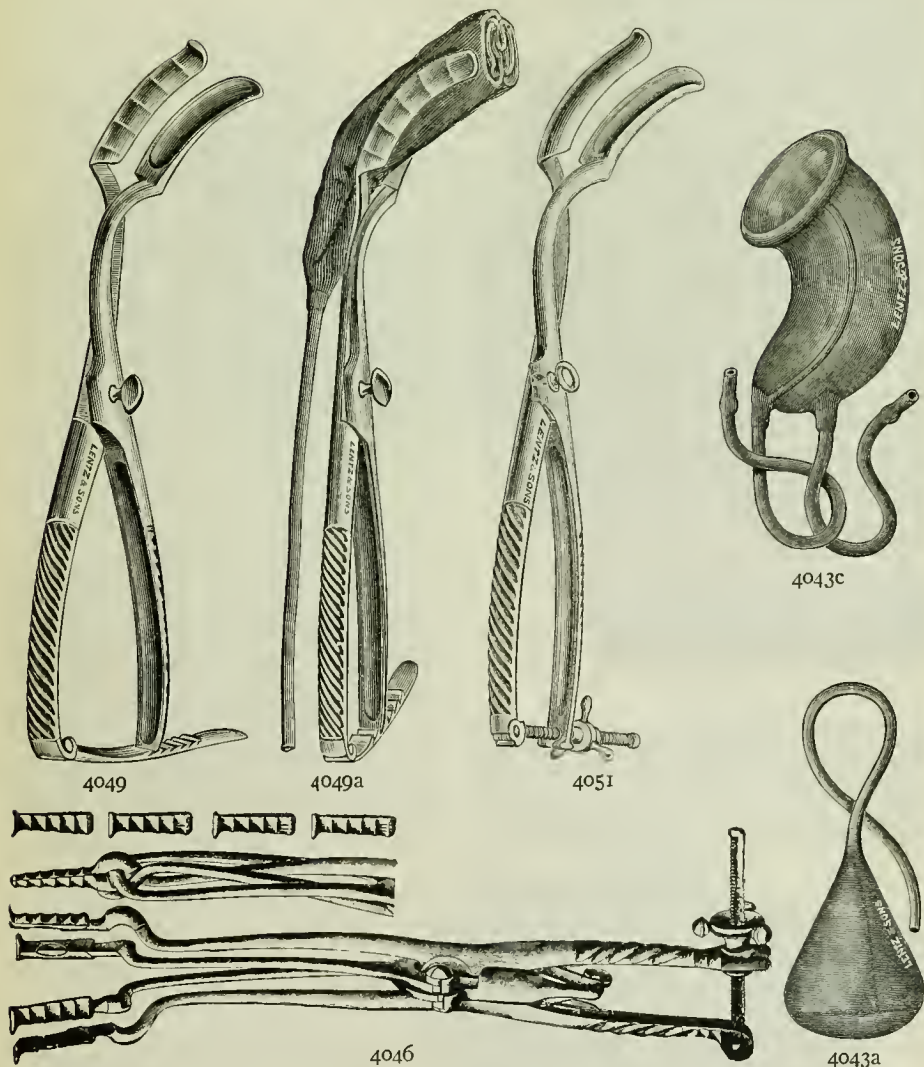


4015.*	Placenta Curette, Munde's, 3 sizes, metal handle	each	\$1 75
4016.*	" " Hirst's, 2 sizes extreme end sharp, steel	"	2 50
4017.	" " Franklin's, 1 size, round wire loop	"	1 25
4018.*	Placenta Forceps, Budd's, fenestrated blades	"	2 00
4019.	" " Bond's, solid,	"	2 00
4020.*	" " Parvin's	"	2 00
4021.	" " Christine's	"	3 50
4023.	" " Munde's, with large fenestra	"	2 50
4024.	" " Penrose's	"	2 50
4025.*	" " Loomis'	"	4 00
4027.*	" " Combined Hook and Curette	"	2 50
4028.*	" " and Embryotomy Forceps, Emmet's	"	2 75
4029.	" " Ovum " Corey's	"	2 50

*All instruments illustrated are designated by a *.*

Obstetric Instruments.

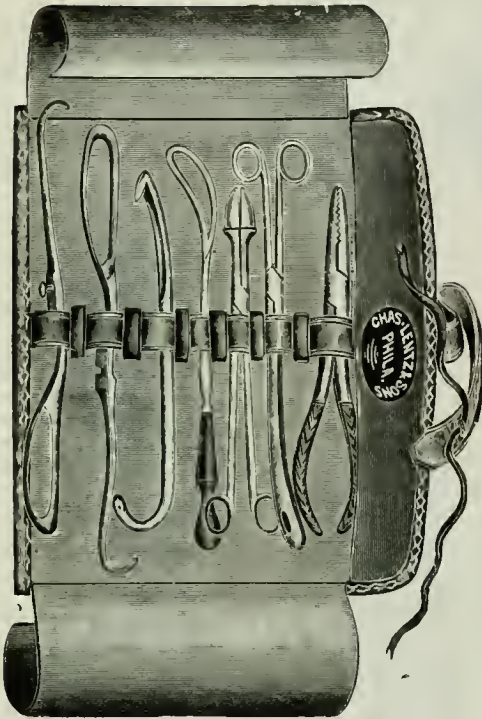
CERVIX DILATORS.



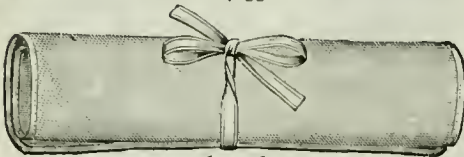
- 4046.* Cervix Dilator, Bossi's, four branches and set of tips \$32 00
 - 4047. " " Higgins' modification of Bossi's, five branches 32 00
 - 4048. " " Marelli's, " " four " 32 00
 - 4049.* " " Richard Norris', with corrugated blades and catch 12 00
 - 4049a.* " " " " " " showing how rubber bag can also be held for introducing same.
 - 4051.* " " John C. Hirst's modification of Norris', with smooth blades and screw for gradual dilatation 14 00
 - 4053. " " de Seigneux's, four adjustable branches 35 00
- These instruments are intended for rapid dilatation of the cervix in cases of eclampsia.
- 4043a.* Colpeurynter, Voorhees', pear shaped each, 90c.; set of four 3 00
 - 4043b. " " " " " " extra large each 1 25
 - 4043c.* " " Pomeroy's, three sizes . small, \$4 00; medium, \$5 00; large 5 75

All articles illustrated are designated by a *.

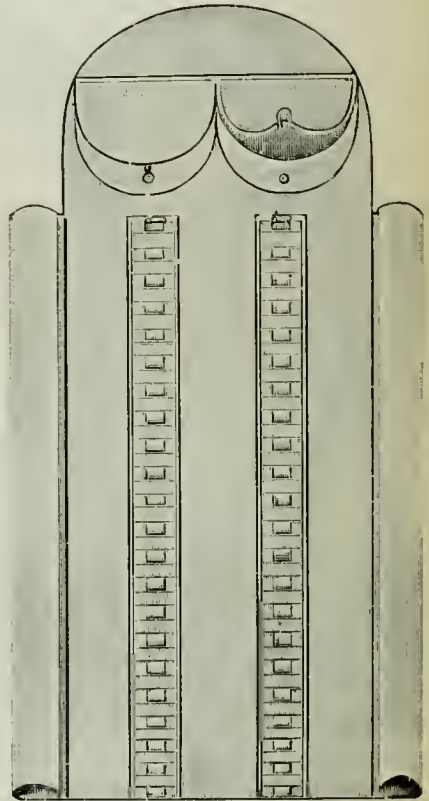
Obstetric Instruments.



4055



4061-4062



4061-4062

- 4055.* Obstetric Set No. 1; contains: Hodge's Forceps; Blunt Hook and Crotchet; Placenta Forceps; Vectis; Perforator; Meigs' Craniotomy Forceps. In a roll-up leather pouch, chamois lined \$16 50
 In 16-inch fine quality bag, with bottles 18 00
4057. Obstetric Set No. 2; contains: Simpson's Forceps; Blunt Hook and Crotchet; Smellie's Perforator; Placenta Forceps. In a roll-up morocco pouch, chamois lined 14 00
 In 16-inch fine quality bag, with bottles 15 50
4059. Obstetric Set No. 3; contains: Elliot's Forceps; Vectis; Smellie's Perforator; Blunt Hook and Crotchet; Meigs' Craniotomy Forceps; Bond's Placenta Forceps; Female Catheter. In a roll-up morocco pouch, chamois lined 18 25
 In 16-inch fine quality bag, with bottles 19 75
4060. Obstetric Pouches, rolling, best morocco leather, lined with chamois skin 4 00
- 4061.* Instrument Rolls, bound washable canvas; with one pocket and either single or double row of loops
- | | |
|---|------|
| No. 1, 12x23 inches, 13 loops; single row, \$1 00; double row | I 25 |
| No. 2, 12x29 " 17 " " " " I 00; " " | I 25 |
| No. 3, 12x35 " 21 " " " " I 10; " " | I 35 |
| No. 4, 15x23 " 13 " " " " I 10; " " | I 35 |
| No. 5, 15x29 " 17 " " " " I 25; " " | I 50 |
- 4062.* Instrument Rolls, bound washable canvas; with two pockets and double row of loops
- | | |
|--|------|
| No. 13, 14½x32 inches; 22 adjustable loops | I 50 |
| No. 20, 15½x35 " 20 " " " " | I 50 |

All articles illustrated are designated by a *.

Obstetric Instruments.

SACHELS.†



4065. Obstetrical and Gynecological Instrument Bag.

This illustrates our standard shape of this convenient form of satchel. It is made of the best quality black grain leather, chamois lined. The gusset, where it is fastened to the frame, is diamond shape, which allows the bag to remain open at any angle without a metal stay or fastener. It has a leather covered high grade steel frame and nickel-plated brass lock and side catches.

The interior is fitted with five two-ounce wide-mouth bottles with rubber stoppers, held in loops as shown in illustration; also with a pocket at opposite side extending the full length of the bag.

13 inches long . . \$5 40	16 inches long . . \$5 75	17 inches long . . \$6 00
15 " " . . 5 50		18 " " . . 6 35

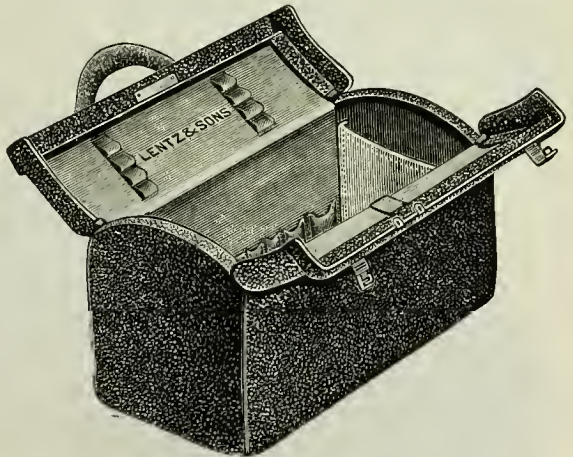
If desired without bottles or loops, deduct 50c. from these prices.

4070. Surgeon's Emergency Cabin Bag.

A wide and high model. Quite a favorite. A most suitable bag for railroad and general emergency work.

It is made of best black grain leather, hand stitched to a strong leather covered steel frame, with gilt lock and snap catches. The interior is lined with smooth leather.

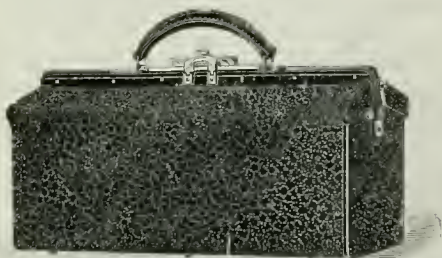
It is provided on one side with five adjustable loops; the opposite side has a full length pocket, and there is also a pocket at one end. The lids are fitted with loops to hold small instruments.



14 inches long, grain leather	\$11 25
15 " " " "	11 75
16 " " " "	12 25
17 " " " "	12 75
18 " " " "	13 25

Obstetric Instruments.

SATCHELS.†



4066-4067



4071

4066.* Physician's and Surgeon's Instrument Cabin Bag. Our most popular and best selling bag. It is made of best black grain leather, leather lined, and hand-stitched to a leather-covered high-grade steel frame, with nickel-plated brass lock and end catches. It is provided on one side with five two-ounce wide-mouth bottles with rubber stoppers, held in place by adjustable loops; the opposite side has a pocket extending the full length of the bag; the lids are fitted with loops to hold instruments.

12 inches long, \$8 50; 14 inches long, \$9 30; 16 inches long, \$10 00
 13 " " 8 90; 15 " " 9 70; 17 " " 10 50
 18 " " 11 00

4067.* Physician's and Surgeon's Instrument Cabin Bag. Same shape as No. 4066. Made of black grain leather, riveted to a leather-covered steel frame, with nickel-plated lock and end catches. The inside is lined with black rubber cloth so it may be cleaned with a moist sponge or cloth. It contains on one side five two-ounce wide-mouth bottles with rubber stoppers, held in adjustable loops; the opposite side has a pocket extending the full length of the bag; the lids are fitted with small loops to hold instruments.

12 inches long, \$6 00; 15 inches long, \$6 75; 17 inches long, \$7 25
 13 " " 6 20; 16 " " 7 00; 18 " " 7 50
 14 " " 6 50

4071.* Physician's Surgical and Obstetrical Bag. Differs from similar ones principally in its deep form. It is six inches wide at bottom and narrows up to the frame. Height from bottom of bag to top of frame eight inches. The shape is very neat and renders it very convenient for nurses as a general utility bag. Made of fine black grain leather, with nickel-plated lock and catches, and leather lined. It contains five two-ounce wide-mouth bottles with rubber stoppers, held in place by adjustable loops.

15 inches long, \$5 25; 16 inches long, \$5 60; 17 inches long, \$5 90
 If desired without bottles, deduct 25 cents.

4071a.* The "Boston" or General Utility Bag. A very popular pattern, and very handy for general use. It is made of soft, pliable, durable black or russet hand-grained leather; lined with either canvas or leather; has one pocket, no loops for bottles, leather-covered frame, secured with strap.

With canvas lining: 12 inches long, \$4 65; 13 inches long, \$5 10; 14 inches long, \$5 50; 15 inches long, \$6 00; 16 inches long, \$6 50.

With leather lining: 12 inches long, \$5 65; 13 inches long, \$6 10; 14 inches long, \$6 50; 15 inches long, \$7 00; 16 inches long, \$7 50.

†NOTE.—The sizes of all our bags indicate the length of the frame.



4071a

Obstetric Instruments.

SATCHELS. BABY SCALES. TRACTORS.



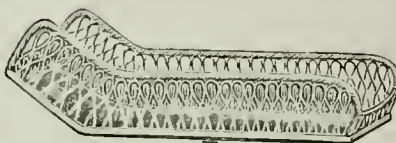
4069



4069a



4075



4075a



4073

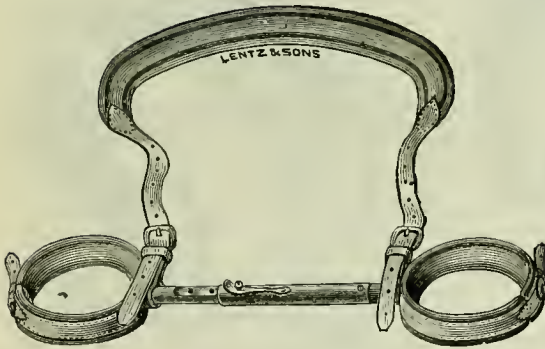
- 4069.* Emergency or Obstetrical Bag, "Club Style," made of best quality grain leather, with hand stitched edges; hand sewed to an English steel frame, with brass trimmings, and full leather lined. The interior is fitted in the lower part with a removable pad holding six 1½-oz. glass stoppered, metal cap bottles; the upper part is provided with loops to hold various instruments. Height 10 inches; width 6¾ inches.

16 inches long	\$13 65†
17 " "	14 25†
- 4069a.* Trained Nurse Bag, black grain leather, leather lined, with pad to hold bottles and instruments 4 50
- 4069b. Trained Nurse Bag, containing straight scissors, hemostat, spring dressing forceps, bandage scissors, hypodermic syringe with two needles, clinical thermometer, four screw-cap glass-stoppered bottles, fountain syringe with three pipes, glass douche nozzle and glass catheter . . . 12 00
- 4073.* Scale for weighing the baby, small, graduated in ¼ lbs. to 15 lbs. 50
- 4074. " " " " " large " " " " " fine grade 1 35
- 4075.* " " " " " white enameled iron, with large base and dial and long willow basket, finished in white; weighs to 25 lbs. 6 50
- 4075a.* " for weighing the baby, white enameled iron; with French style willow basket, finished in white and gold; weighs to 25 lbs 7 50
- 4076. Obstetric Slippers, Haslam's, simple and effective device in labor, per pair 2 00
- 4076a. " " Von Klein's . . per pair, \$5 00; in case " " 6 00
- 4076b. " Tractor, Post's, strong adjustable webbing with handles 1 25

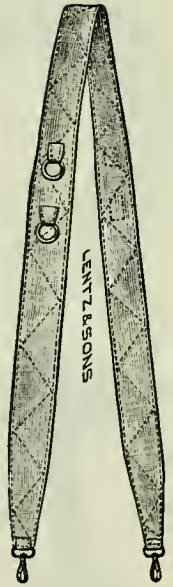
SECTION X.

Gynecological Instruments.

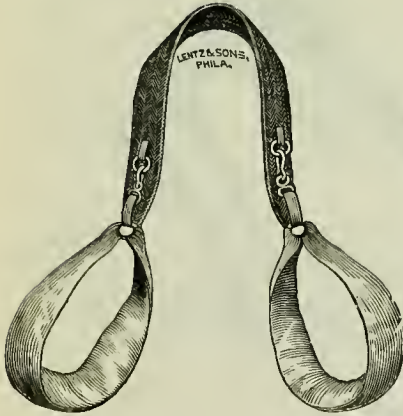
LEG HOLDERS.



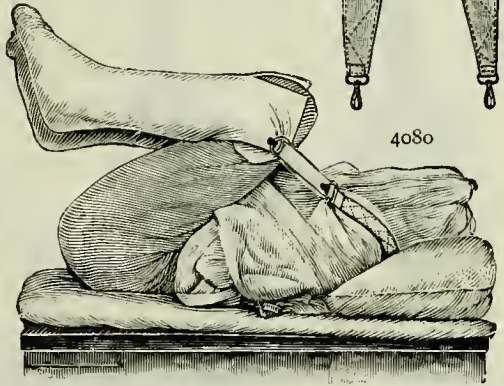
4078



4080



4079



4081

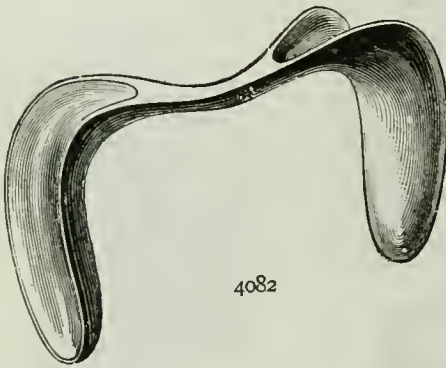
- | | | |
|---|---|---------|
| 4078.* | Leg Holder, Clover's Improved, Portable | \$ 7 00 |
| <p>Consists of a metal rod sliding within a hollow one, for the purpose of rendering it longer or shorter, and held at the desired distance by a spring catch. At each end of the rods are attached circular metal bands well padded and covered with leather, which buckle around the limbs. A broad band which is carried behind the patient's neck has strong leather straps, which buckle to the rod.</p> | | |
| 4079.* | Leg Holder, Kelly's | \$ 1 50 |
| 4080.* | “ “ Robb's | 1 10 |
| 4081.* | “ “ legging pattern, Mallet's | 2 00 |

These Leg Holders are made of unbleached Canton flannel, with snap catch, hooks and rings for adjusting to any desired length. They can be washed and sterilized. Being light, can be conveniently carried in operating bag.

*All instruments illustrated are designated by a *.*

Gynecological Instruments.

SPECULA.



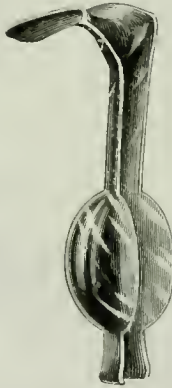
4082



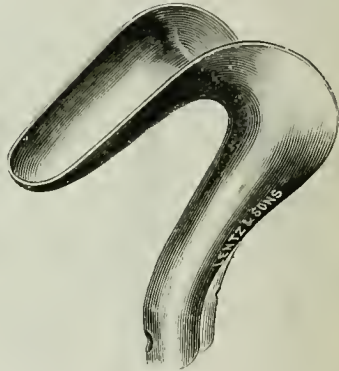
4089



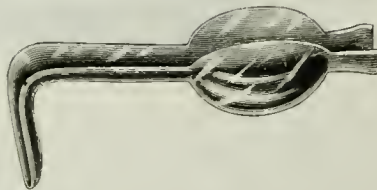
4093



4094



4090

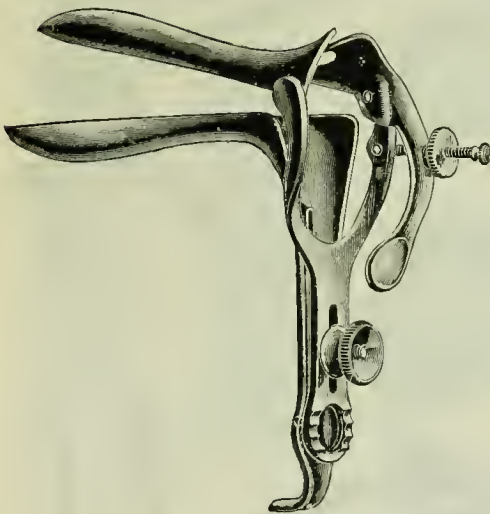


4095

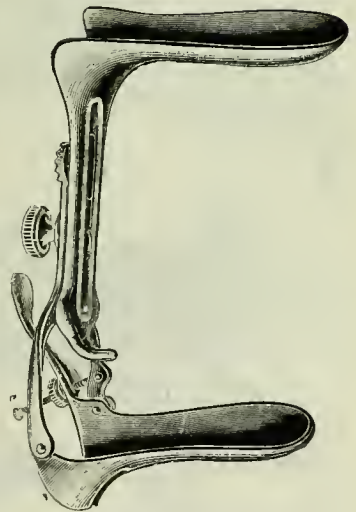
4082.*	Speculum, Sims',	made of wrought metal, six sizes	each \$1 00
4084.	"	very light and narrow, for removing stitches after operation	1 25
4085.	"	Heburn's modification	1 50
4086.	"	Bozeman's	1 50
4087.	"	Munde's	1 50
4088.	"	Dawson's, with divided blade.	3 00
4093.*	"	Auvard's, weighted, self-retaining	3 00
4094.*	"	Garrigue's,	3 00
4095.*	"	Henrotin's,	3 00
4089.*	"	Edebohls', self-retaining	1 75
4090.*	"	Miller's modification	1 75
4091.	"	Tappan's, narrow	1 00
4092.	Weight for Edebohls' or Miller's Speculum		75

Gynecological Instruments.

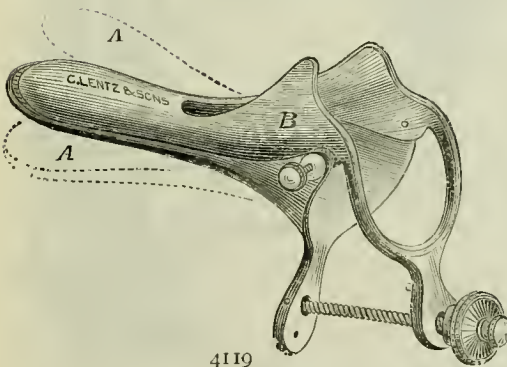
SPECULA.



4115



4116



4119



4117



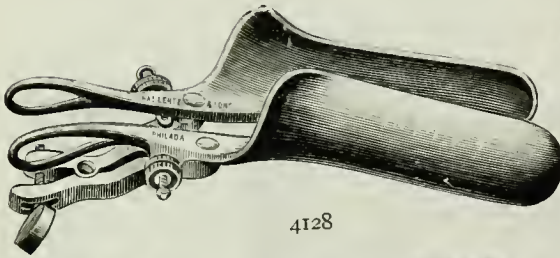
4125

4115.*	Speculum, Graves' latest pattern, two sizes, convertible into a Sims' speculum	\$1 25
4116.*	“ “ converted into a Sims'	
4117.*	“ “ operating, with short blades	2 50
4118.*	“ “ with extra long blades	2 00
4119.*	“ Brewer's, convertible into a Sims'	1 75
4120.	“ Storer's “ “ “ “	1 75
4121.	“ Hale's, bivalve	2 00
4122.	“ Palmer's, bivalve	1 75
4123.	“ “ trivalve	1 75
4124.	“ Miller's, bivalve	1 50
4125.*	“ Landau-Miller's	1 75

All instruments illustrated are designated by a *.

Gynecological Instruments.

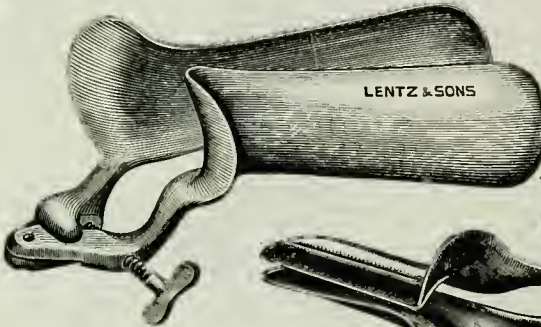
SPECULA.



4128



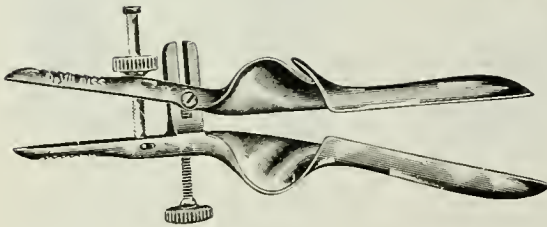
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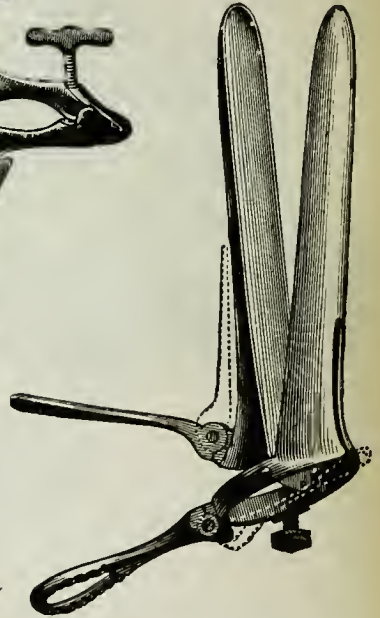
4130



4131



4140

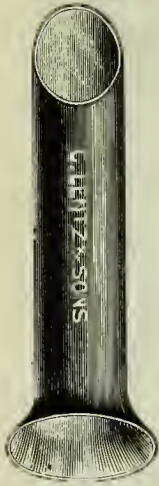


4133

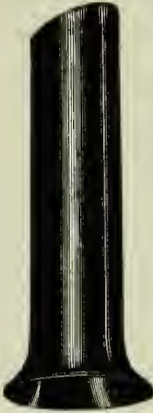
- | | | | |
|--------|---|---|--------|
| 4128.* | Speculum, Goodell's | regular, \$3 00; extra quality and finish | \$4 50 |
| 4129. | " Baer's modification of Cusco's, two sizes | each | 3 00 |
| 4130.* | " Collin's, two sizes | " | 1 65 |
| 4131.* | " Talley's Irrigating, modification of Collin's | " | 1 75 |
| 4132.* | " Cusco's, virgin size, with stationary handle | " | 1 75 |
| 4133.* | " " regular " folding | " | 2 00 |
| 4134. | " " improved " " | " | 2 00 |
| 4135. | " Abbott's, bivalve, with short blades | " | 2 75 |
| 4136. | " Taylor's | " | 1 50 |
| 4137. | " Reid's | " | 4 50 |
| 4138. | " Bath, wire | " | 1 00 |
| 4139. | " Labial, " | " | 1 25 |
| 4140.* | " De Vilbiss', parallel blades | " | 1 50 |

Gynecological Instruments.

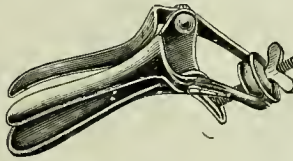
SPECULA.



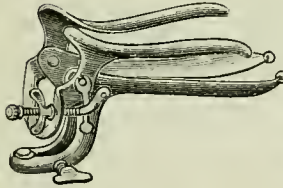
4151



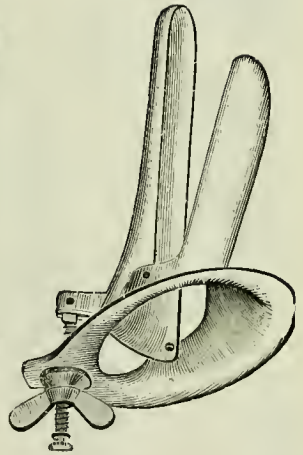
4152



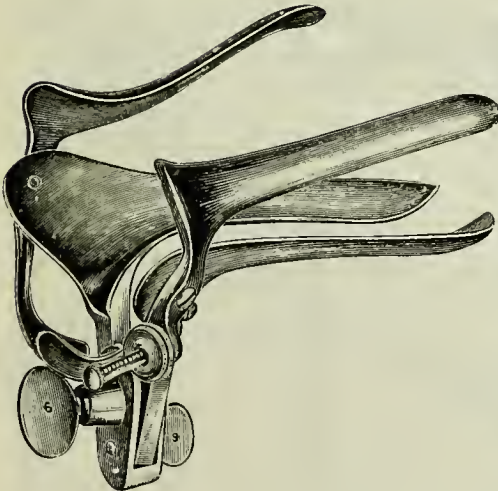
4147



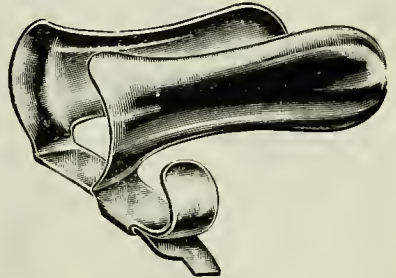
4148a



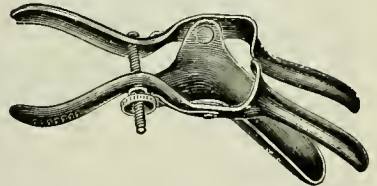
4145



4148



4157



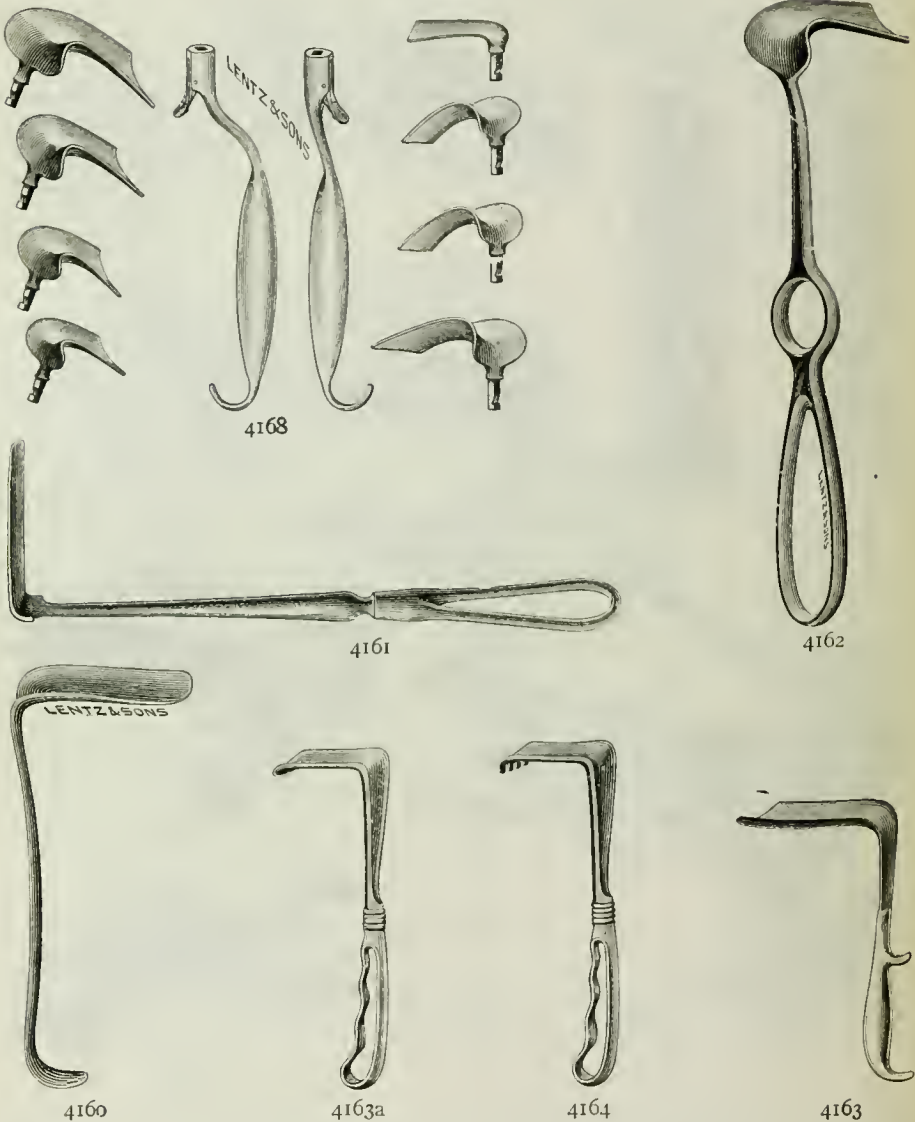
4149

4145.*	Speculum,	Higbee's, three sizes	each	\$1 65
4146.	"	Howard's		1 75
4147.*	"	Nott's, trivalve, three sizes	each	1 65
4148.*	"	Ashby's, four bladed, lower blade may be dilated		3 00
4148a.*	"	" "Ball Bearing," four bladed, lower blade may be dilated		3 00
4149.*	"	Nelson's, trivalve		2 00
4150.	"	Cordier's, adjustable to three sizes		2 25
4151.*	"	Ferguson's, glass, reflecting, black outside, six sizes		60
4152.	"	" plain crystal glass, six sizes		40
4153.	"	" milk white glass, three sizes		50
4155.*	"	" hard rubber, four sizes each, \$1 00; set of four		3 50
4157.*	"	Sparks', automatic adjusting and locking		2 50

All instruments illustrated are designated by a *.

Gynecological Instruments.

VAGINAL AND HYSTERECTOMY RETRACTORS.



Vaginal and Hysterectomy Retractors.

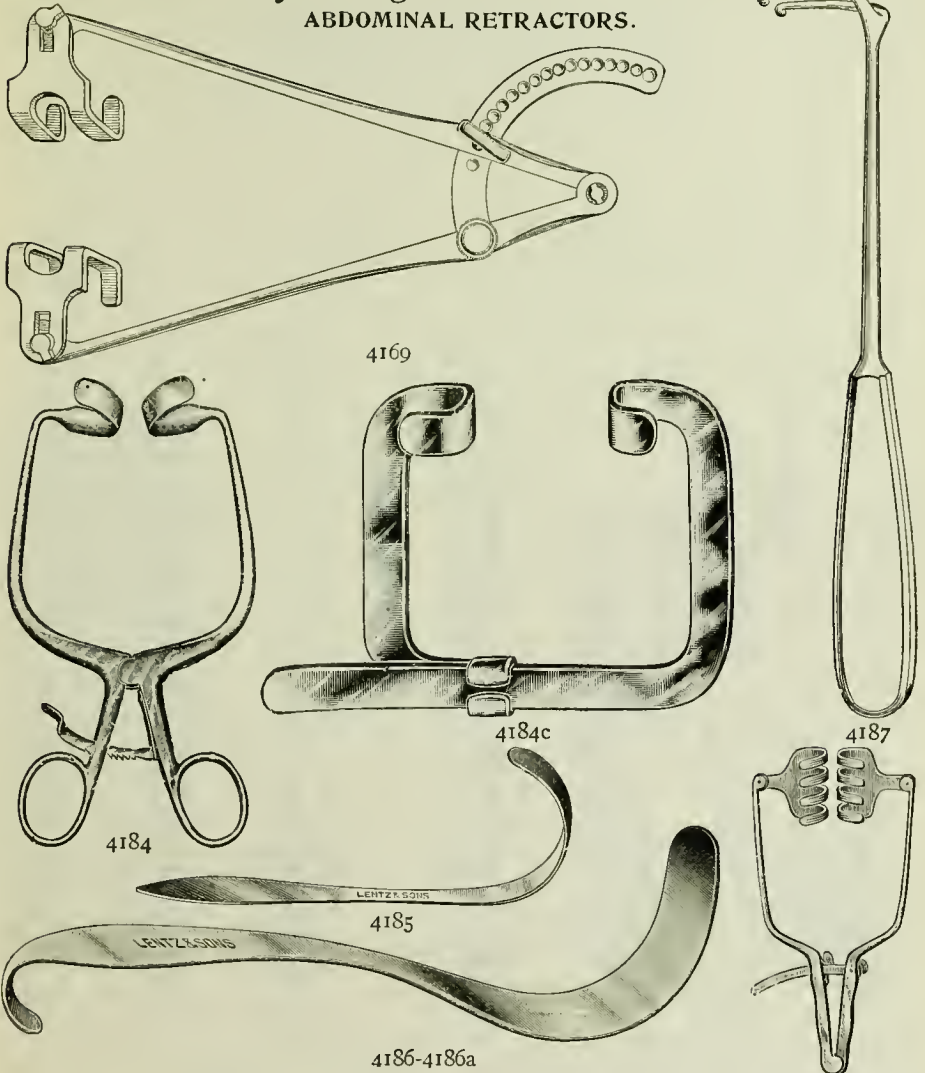
4159.	Eastman's, six sizes	each	\$1 25
4160.*	Jackson's,	"	1 00
4161.*	Robb's, steel, three sizes	each, \$1 50, \$1 75	1 90
4162.*	Martin's, steel blade	"	2 75
4163.*	Doyen's, six sizes, 2 3/8 in. to 4 3/4 in. long, 1 3/4 and 2 3/8 in. wide	each	2 50
4163a.*	Doyen-Kelly's, six sizes, 2 3/8 to 4 3/4 in. long, 1 3/4 and 2 3/8 in. wide	"	2 50
4164.*	Kelly's, with prongs, four sizes, 1 1/2 to 3 1/2 in. wide	"	2 00

Vaginal Specula and Retractors.

4167.	Bozeman-Simon's, set of five blades, with two handles	8 00
4168.*	" " " eight " " "	10 50

For Other Retractors, see pages 46 and 47.

Gynecological Instruments.
ABDOMINAL RETRACTORS.

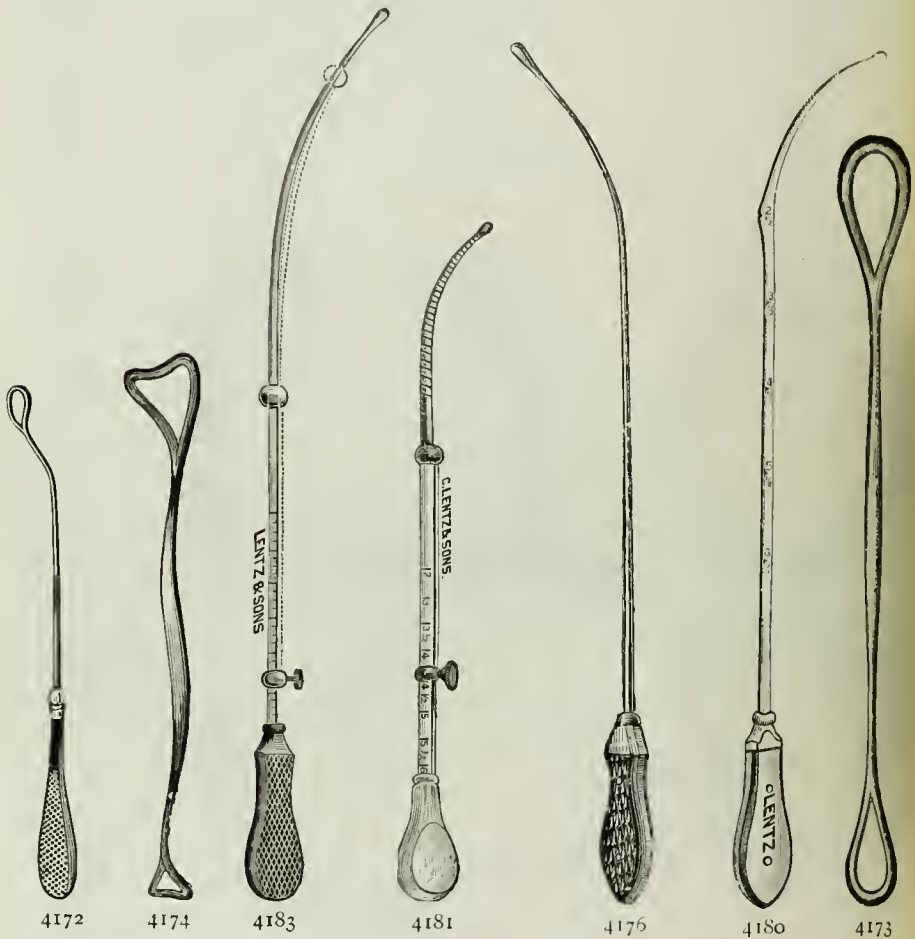


4169*	Abdominal Retractor,	Ashton's, self-retaining, removable blades	\$8 00
4170.*	"	" Kelly's, automatic, four pronged	6 00
4171.	"	" Doyen's, self-retaining, with two blades	16 50
4184.*	"	" Simpson-Mayo's, self-retaining, large	7 50
4184a.	"	" Simpson-Mayo-Collin's, self-retaining, three bladed	9 00
4184b.	"	" Sparks', self-retaining, three bladed	5 00
4184c.*	"	" " " two " "	4 00
4185.*	"	" Deaver's, large, straight handle, per pair	1 25
4186.*	"	" " " extra large, one inch blade, per pair	3 00
4186a.*	"	" " " " two inch blade, per pair	3 50
4186b.	"	" " " " one inch blade, with pelvic curve, per pair	3 50
4187.*	"	" Ashton's, two prongs, probe ends	2 00
4188.	"	" J. R. Taylor's, self-retaining, two pairs of solid blades	15 00
4189.	Rubber Dam with Spring,	J. R. Taylor's, for isolating the intestines from field of operation, 13, 14 and 15 in. long each	1 50

For Other Retractors, see pages 46 and 47.

Gynecological Instruments.

UTERINE SOUNDS AND DEPRESSORS.

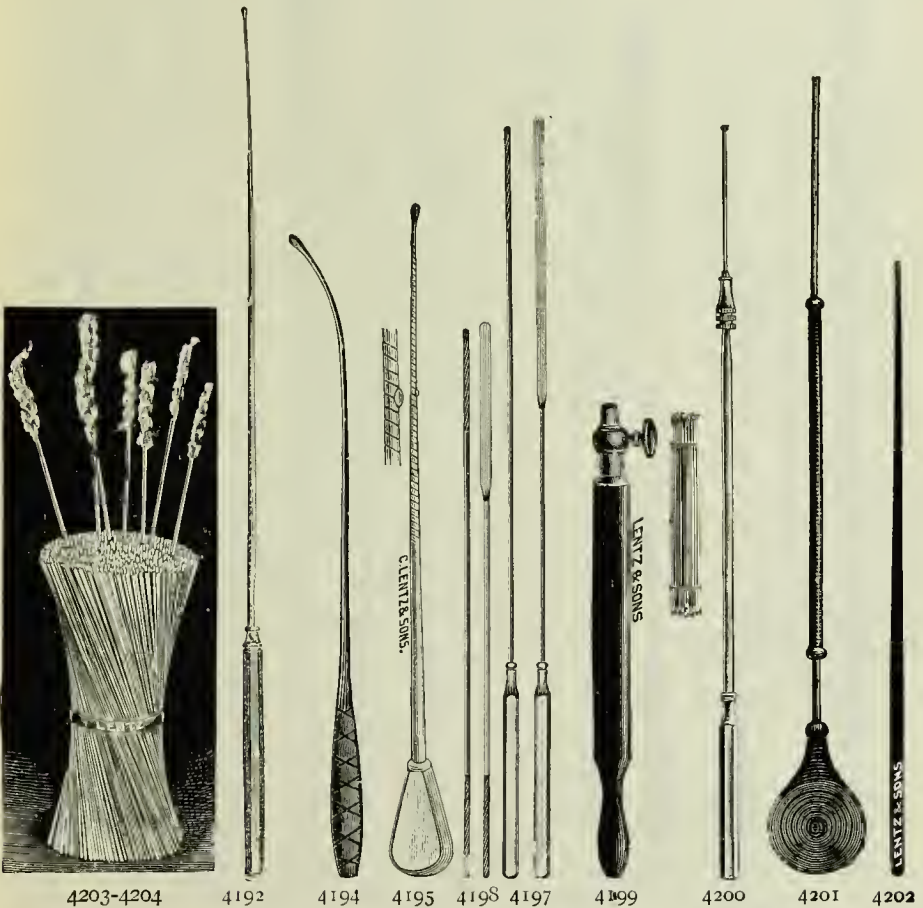


4172.*	Vaginal Depressor, Sims', single, with metal handle	\$0 70
4173.*	" " double	80
4174.*	" Nott's, "	80
4175.	" Hunter's, "	80
4176.*	Uterine Sound, Sims', plain, nickel-plated	40
4177.	" " fine, "	60
4178.	" " " graduated in inches and centimeters	1 00
4179.	" Simpson's, plain, nickel-plated	40
4180.*	" " fine	60
4181.*	" Jenks', spiral, with slide, metal handle	1 50
4182.	" Fitch's, with slide	90
4183.*	" Gidding's, " nickel-plated, \$1 00; aluminum	1 25

*All instruments illustrated are designated by a *.*

Gynecological Instruments.

UTERINE PROBES AND APPLICATORS.



4190.	Uterine Sound, Buttle's, combined set of sound, silver probe and sponge holder in one handle	\$ 2 25
4191.	“ “ Chapman's, combined set of Sims' and Simpson's sounds and silver probe	2 25
4192.*	“ Probe, Sims', silver	75
4193.	“ “ “ aluminum	50
4194.*	“ “ Thomas' hard rubber, 30c.; whalebone	50
4195.*	“ “ Jenks', spiral, metal handle	85
4197.*	“ Applicator, aluminum, either flat or twisted end, in handle	20
4198.*	“ “ “ “ “ without handle, doz.	25
4199.*	Set-screw Handle for Uterine Applicators, fig. 4198 . . . plain, 25c.; fine	35
4200.*	Uterine Applicator, new pattern, with 100 nails to each	1 00
4201.*	“ Emmet's, pure silver, with slide	1 00
4202.*	“ Noble's, whalebone	50
4203.*	“ wood, 6½ in. long 72 dozen in box	30
4204.*	“ “ 12 “ “ per 100, 25c.; per 1,000	1 50

Gynecological Instruments.
CERVIX SPECULA AND APPLICATORS.

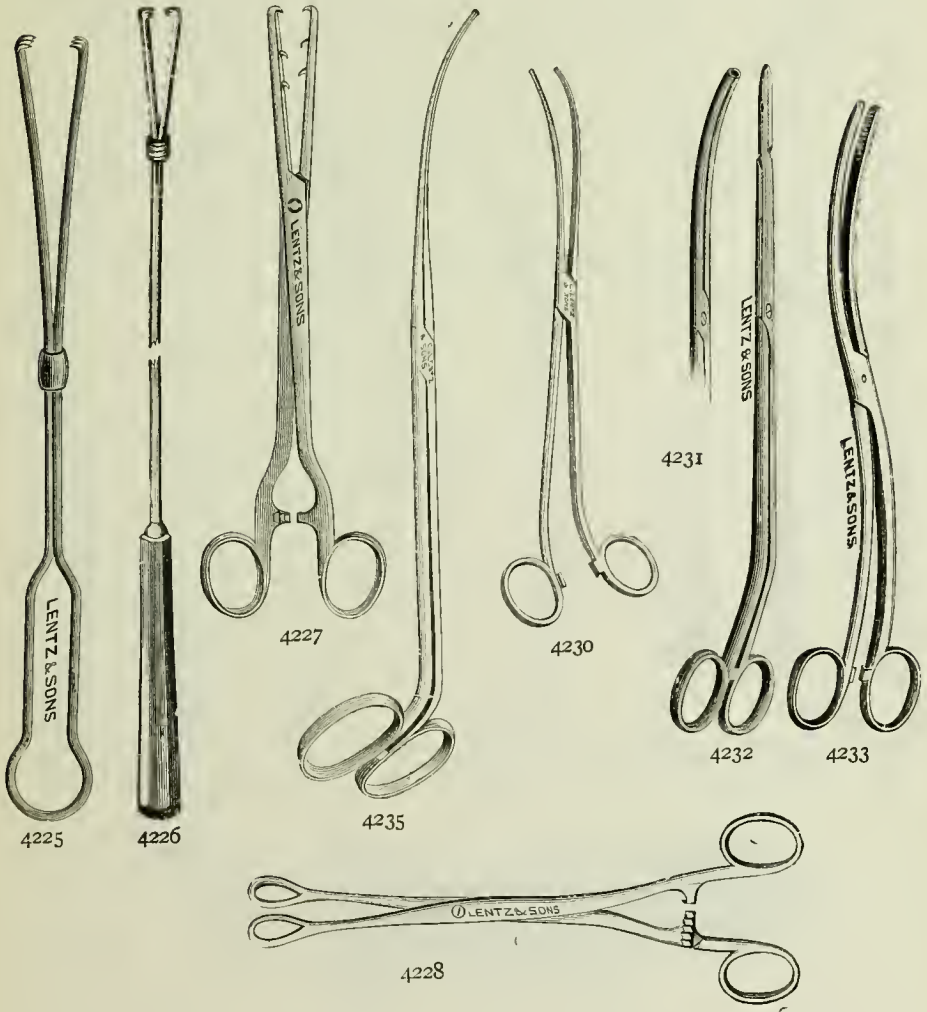


4207	4210	4211	4212-4213	4214	4215	4216	4217		
4207.*	4208.	4210.*	4211.*	4212.*	4213.*	4214.*	4215.*	4216.*	4217.*
Cervical Speculum or Dressing Packer, Daruack's, two sizes, each								\$1 50	
" " " " " plain, " " " "								60	
" " " " Wylie's, for making applications, plated								1 25	
" " " " Polk's, with obturator, for packing the uterus with gauze								1 50	
" " " " Burrage's modified Polk's, for Intra-Uteriue Tamponade; consisting of two intra-uterine specula of different sizes with one movable holder; two obturators fitting specula; one steel tampon screw (fig. 4214) for packing the gauze; one irrigation tube which may be attached to any fountain syringe for flushing out the uterus prior to tamponing; complete, fine quality								2 25	
" " " " Burrage's, same as above, but with Burrage's gauze packer (fig. 4217)								1 85	
" " " " Tampon Screw, steel, fine, for packing gauze, cotton, etc.								75	
" " " " Packer, Kelly's, steel, fine for packing gauze, cotton, etc.								65	
" " " " Sims' spiral " " " " " "								60	
" " " " Burrage's " " " " " "								35	
" " " " Applicator, Mitchell's, for applying medicated pencils								1 00	

*All instruments illustrated are designated by a *.*

Gynecological Instruments.

UTERINE DRESSING FORCEPS AND SPONGE HOLDERS.

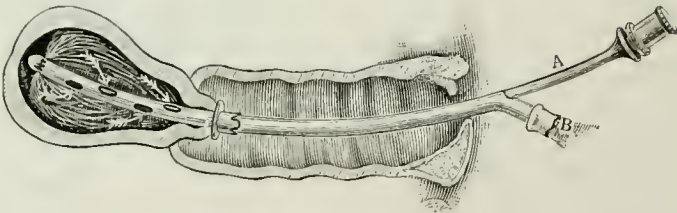
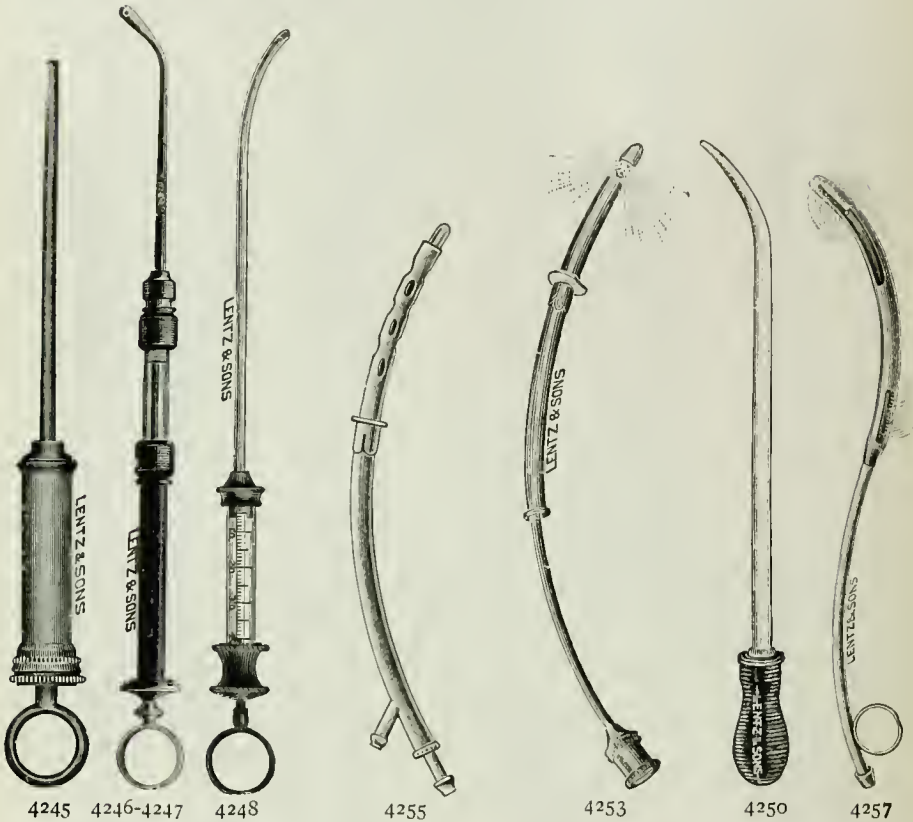


4225.*	Uterine Sponge Holder, Husson's	light, 25c.; medium, 45c.; heavy	\$0 65
4226.*	“ “ “ “ “ “ “ “ “ “	straight or curved, in metal handle	each 25
4227.*	“ “ “ “ “ “ “ “ “ “	Sponge-holding Forceps, Kelly's, with bird-claw points	2 25
4228.*	“ “ “ “ “ “ “ “ “ “	“ “ “ “ “ “ “ “ “ “	each 1 75
4230.*	“ “ “ “ “ “ “ “ “ “	Dressing Forceps, Allen's, curved, without catch, \$1 25; with catch	1 40
4231.*	“ “ “ “ “ “ “ “ “ “	“ “ “ “ “ “ “ “ “ “	“ “ 1 40
4232.*	“ “ “ “ “ “ “ “ “ “	“ “ “ “ “ “ “ “ “ “	“ “ 1 60
4233.*	“ “ “ “ “ “ “ “ “ “	“ “ “ “ “ “ “ “ “ “	“ “ 1 35
4234.	“ “ “ “ “ “ “ “ “ “	“ “ “ “ “ “ “ “ “ “	“ “ 2 00
4235.*	“ “ “ “ “ “ “ “ “ “	“ “ “ “ “ “ “ “ “ “	“ “ 2 00
4236.	“ “ “ “ “ “ “ “ “ “	“ “ “ “ “ “ “ “ “ “	“ “ 1 40
4237.	“ “ “ “ “ “ “ “ “ “	“ “ “ “ “ “ “ “ “ “	“ “ 2 50
4238.	“ “ “ “ “ “ “ “ “ “	“ “ “ “ “ “ “ “ “ “	“ “ 1 35
4239.	“ “ “ “ “ “ “ “ “ “	“ “ “ “ “ “ “ “ “ “	“ “ 2 00

All instruments illustrated are designated by a *.

Gynecological Instruments.

INTRA-UTERINE SYRINGES AND DOUCHES.



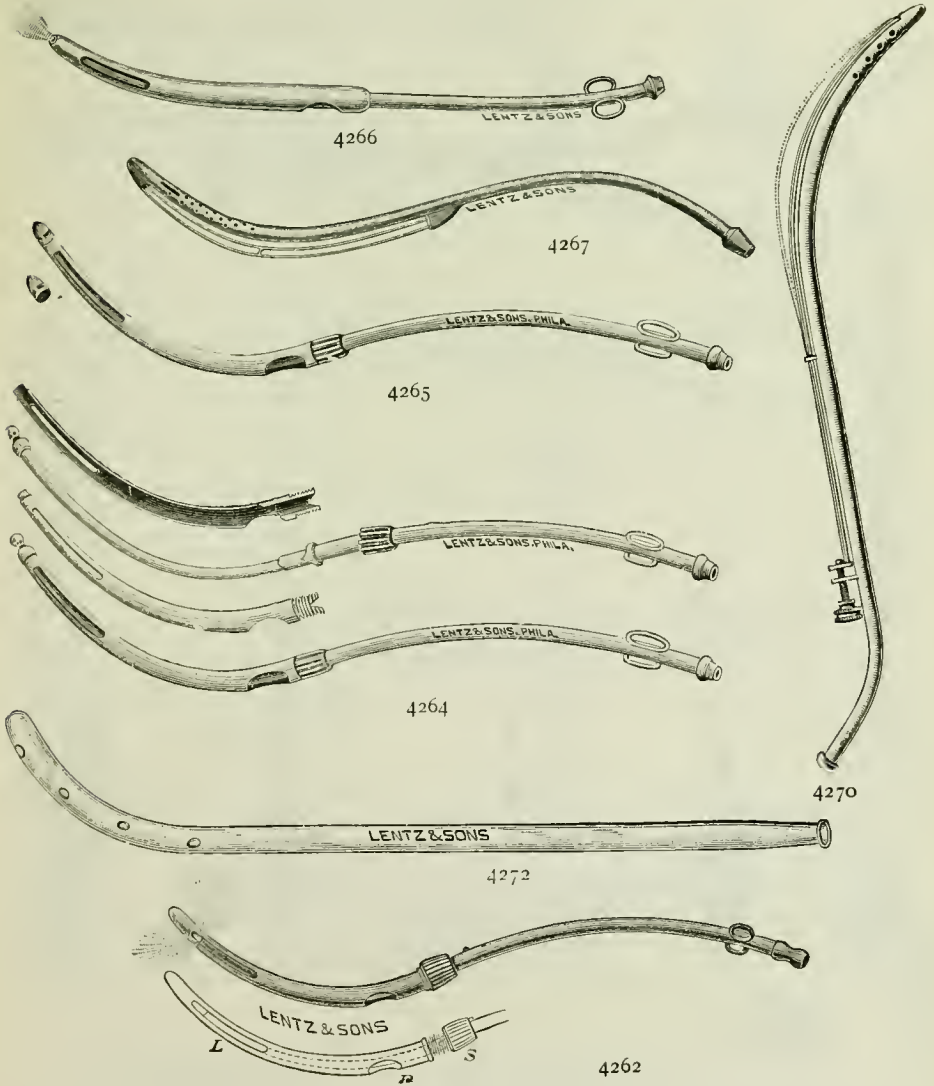
4254

4245.*	Intra-Uterine Syringe, hard rubber	1/2 oz., 85c.; 1 oz., \$1 00; 2 oz.	\$1 25
4246.*	" " " Braun's, metal, with small glass barrel and extra long tube		1 25
4247.*	" " " Braun's, hard rubber, with glass barrel, h. r. mounted and extra long tube		1 25
4248.*	" " " Taylor's, hard rubber, with graduated glass barrel.		1 50
4249.*	" " " Lentz's, with two silver tubes in case		4 00
4250.*	" " " Pipette, Skene's, glass, for instillation		25
4253.*	" " " Douche, Jennison's,		1 00
4254.*	" " " Lentz's improved		1 00
4255.*	" " " Glasgow's		1 00
4256.*	" " " Davis'		2 00
4257.*	" " " Bozeman's,		1 25

All instruments illustrated are designated by a *.

Gynecological Instruments.

INTRA-UTERINE DOUCHES.

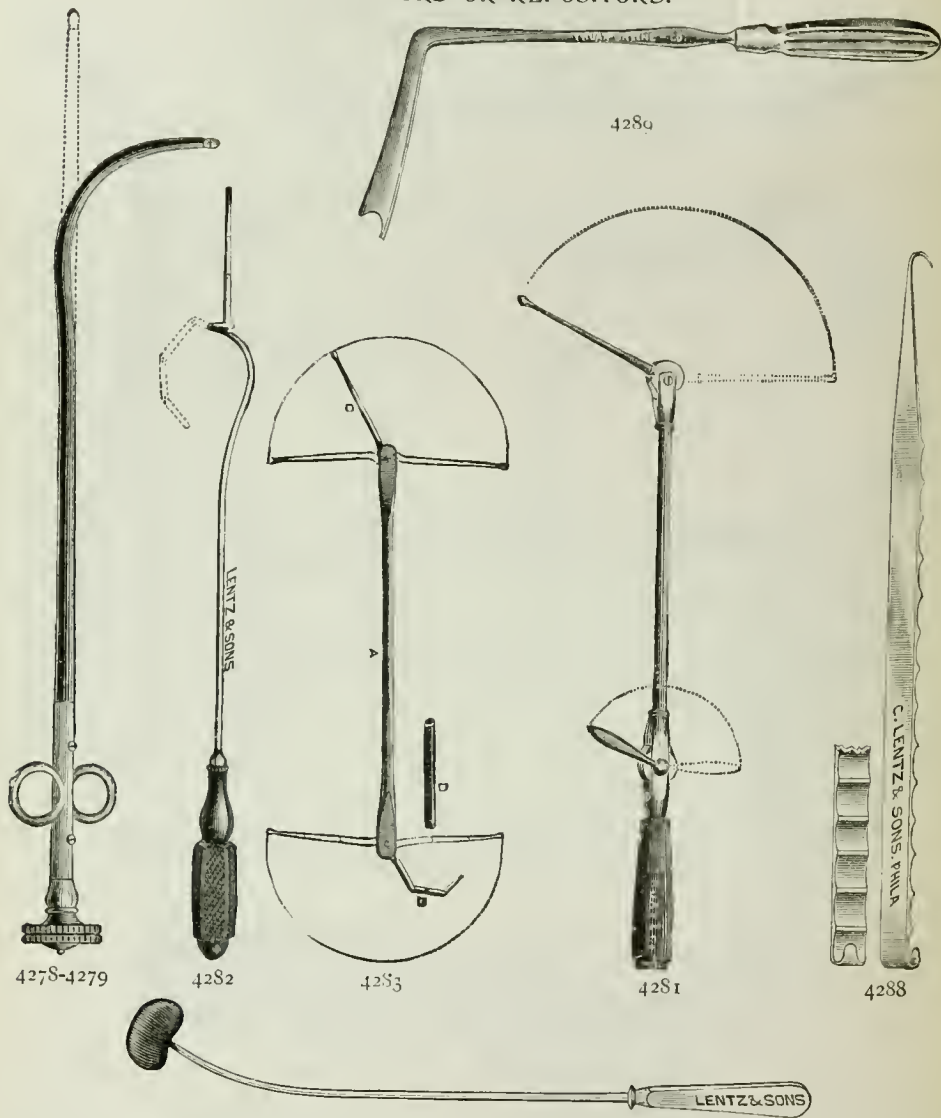


4262.*	Intra-Uterine Douche,	Fritsch's modified Bozeman's, metal, aseptic	\$1 50
4263.	"	" " " " glass	1 00
4264.*	"	Kelly's, " Fritsch's, aseptic	2 50
4265.*	"	Hoffman's, " Kelly's, point unscrews, all parts separable, for cleaning	2 50
4266.*	"	Baer's, aseptic	1 50
4267.*	"	Haynes' improved	75
4269.	"	Talley's, small, for use with Talley's irrigating spec- ulum	1 00
4270.*	"	dilating, made of German silver, with steel dilating rods, hard soldered throughout	1 25
4272.*	"	Chamberlain's, glass, assorted sizes, each	30
4273.	"	Broomall's, "	40
4274.	"	Davis' modified Chamberlain's, glass	40

*All instruments illustrated are designated by a *.*

Gynecological Instruments.

ELEVATORS OR REPOSITORS.



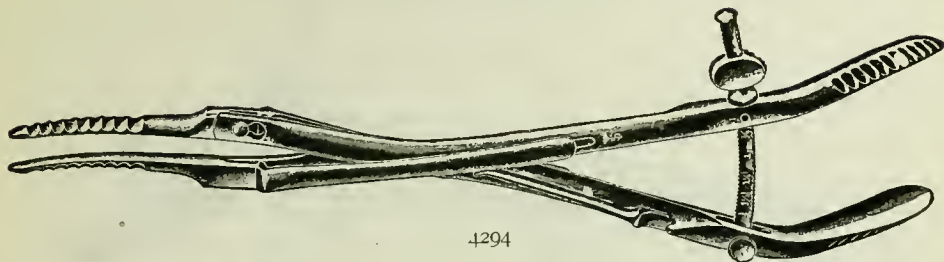
- 4278.* Elevator or Repositor, Elliot's, with eatheter web covering, plain \$2 25
- 4279.* " " " improved, with metal spiral and soft rubber cover 2 75
- 4280. " " " extra soft rubber covers for same, each 25
- 4281.* " " Ludlam's, metal handle 3 50
- 4282.* " " Emmet's, " 3 60
- 4283.* " " Kingman's and Emmet's combined 3 75
- 4284.* " " Priece's 1 25
- 4286. " " Sims' 3 50
- 4287. " " Skene's 4 00
- 4288.* Tenaulum and Replacer, Kelly's 1 25
- 4289.* Elevator, Kelly's 2 25

Used as a lever for uterine elevation in cases of suspension; the length of the blade is sufficient for its outer border to hold the uterine body by firm contact.

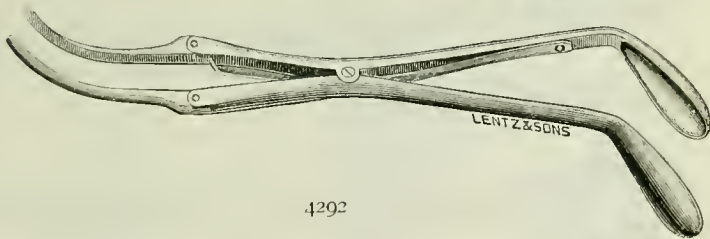
*All instruments illustrated are designated by a *.*

Gynecological Instruments.

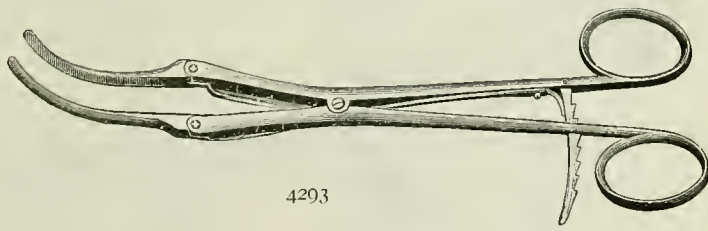
UTERINE DILATORS.



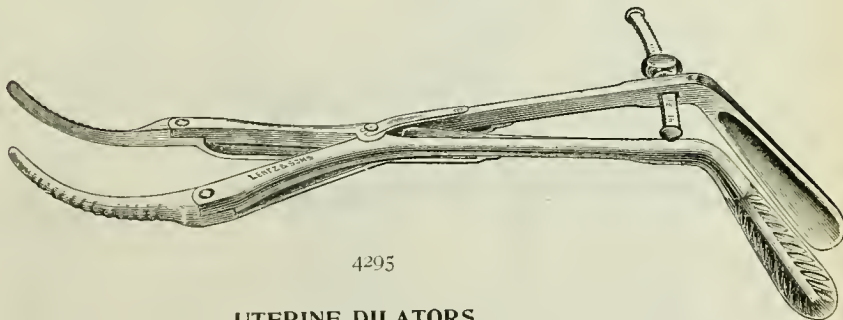
4294



4292



4293



4295



4298

UTERINE DILATORS.

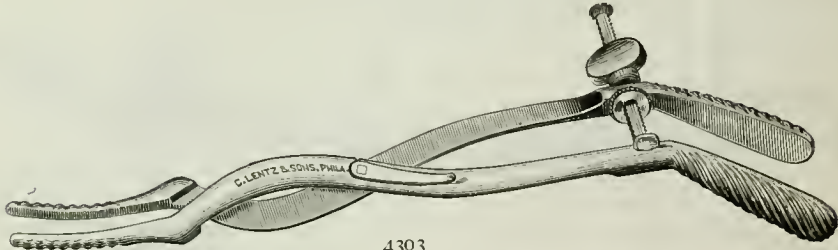
The crossed branches are on under side, therefore do not obstruct.
 The prices of these dilators are based on strictly high grade, hand forged goods.
 (Excepted from these remarks is No. 4294.)

4292.*	Goodell-Kelly pattern, light, smooth blades, separable, hollow handles . . .	\$8 50
4293.*	Goodell-Ellinger " " " " " " " " with ratchet catch	8 50
4294.*	Goodell-Scheerer " two sizes, light and heavy, separable, each	5 50
4295.*	Goodell-Lentz improved pattern, heavy, separable, hollow handles . . .	8 50
4296.	Goodell-Baer pattern, light, smooth blades, large bent ring handles . . .	8 50
4297.	Goodell-Ashton's, separable, hollow handles; like No. 4295, but with large crank handle	10 50
4298.*	Cleveland's, four-bladed, irrigating and separable, screw handle	13 50

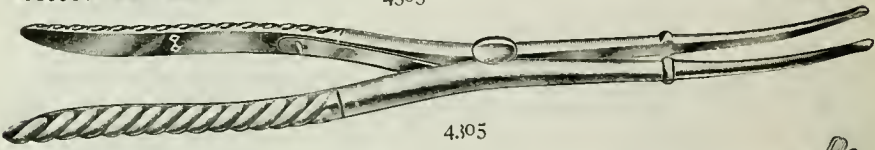
*All instruments illustrated are designated by a *.*

Gynecological Instruments.

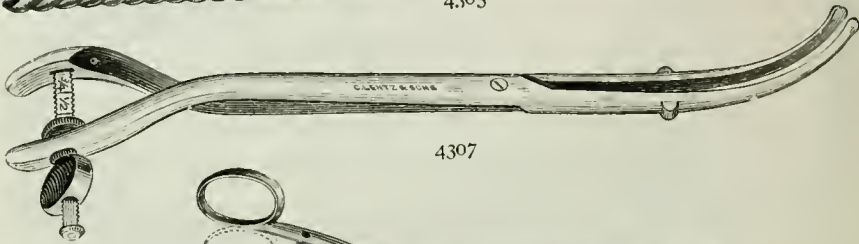
UTERINE DILATORS.



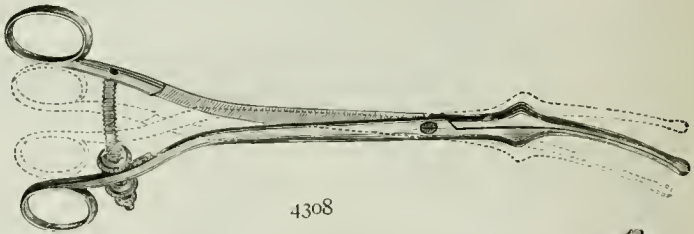
4303



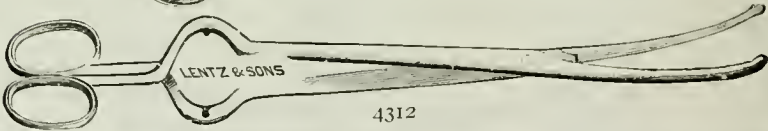
4305



4307



4308



4312



4315

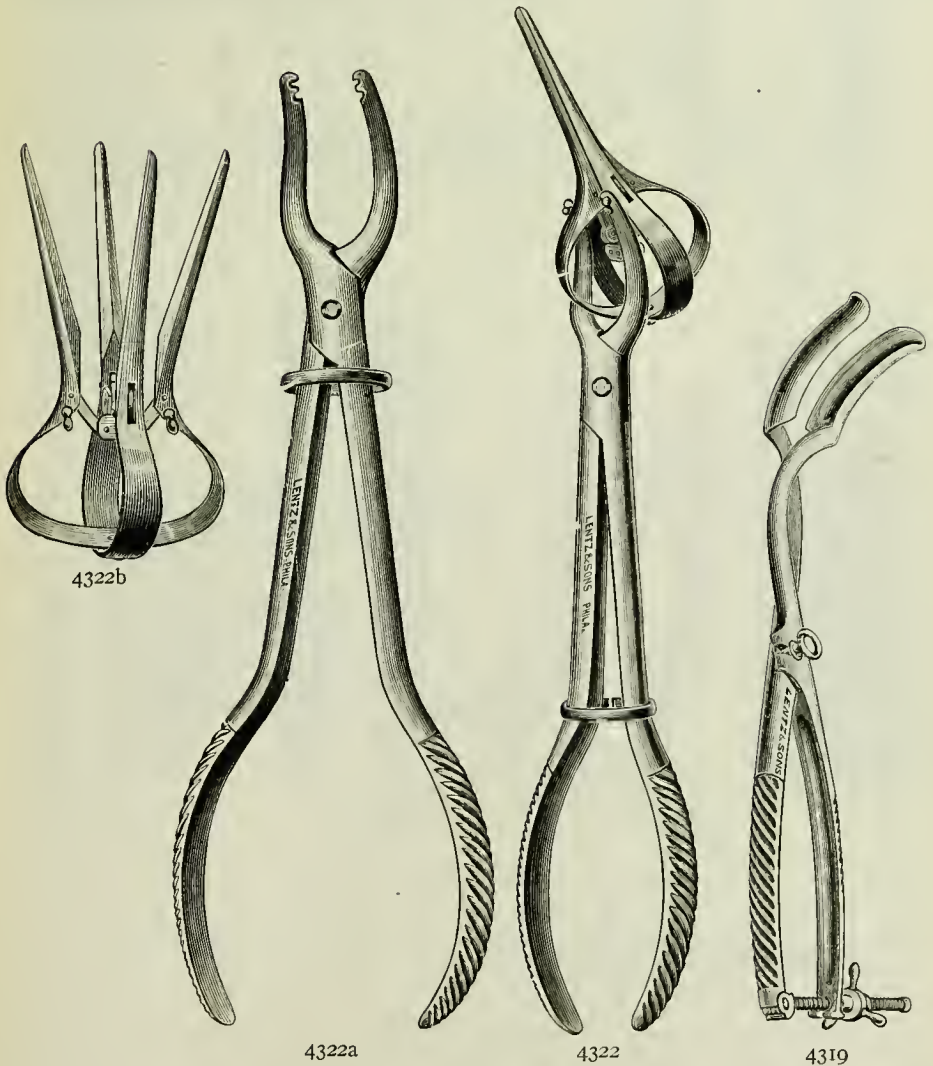
Uterine Dilators.

4303.*	Wathen's, heavy, with corrugated blades, hollow handles	\$3 75
4304.	“ light, “ smooth “ “ “	3 25
4305.*	Wylie's, plain, “ “	2 50
4306	“ with graduated screw at end of handle	3 00
4307.*	Palmer's, with bent handle and graduated screw at end of handle	2 50
4308.*	“ “ straight scissor handle, graduated screw at end of handle	2 25
4310.	“ “ corrugated blades, large bent ring handles	3 00
4311.	Richter's, four-bladed, aseptic	15 00
4312.*	Atlee's light, with smooth blades, straight scissor handle	2 00
4314.	Hegar's, steel, nickel-plated, with handle, ten sizes	each 75
4315.*	Pratt's, “ “ double-ended	“ 75
4316.	“ “ “ set of eight, sixteen sizes, in linen roll	6 50

*All instruments illustrated are designated by a **

Gynecological Instruments.

UTERINE DILATORS.



Uterine Dilators.

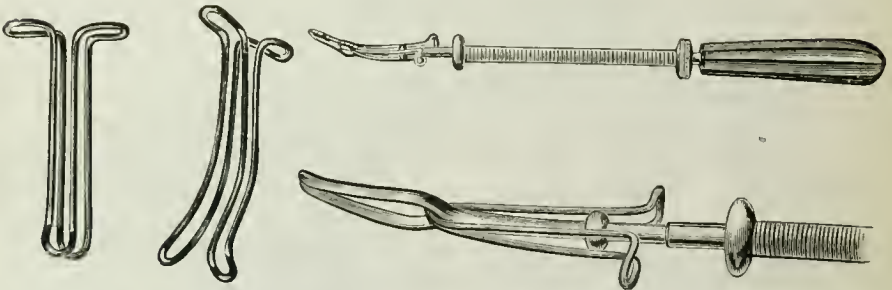
4322.*	B. C. Hirst's Metranoikter, set of two four-bladed specula, with one handle	\$20 00
4323.	Schatz's " " " eight two-bladed " " " " " " " "	22 50
4318.	Richard C. Norris', with corrugated blades and ratchet catch	12 00
4319.*	John C. Hirst's modification of Norris', with smooth blades and screw for gradual dilatation	14 00

For other Uterine Dilators see pages 334 and 335.

*All instruments illustrated are designated by a *.*

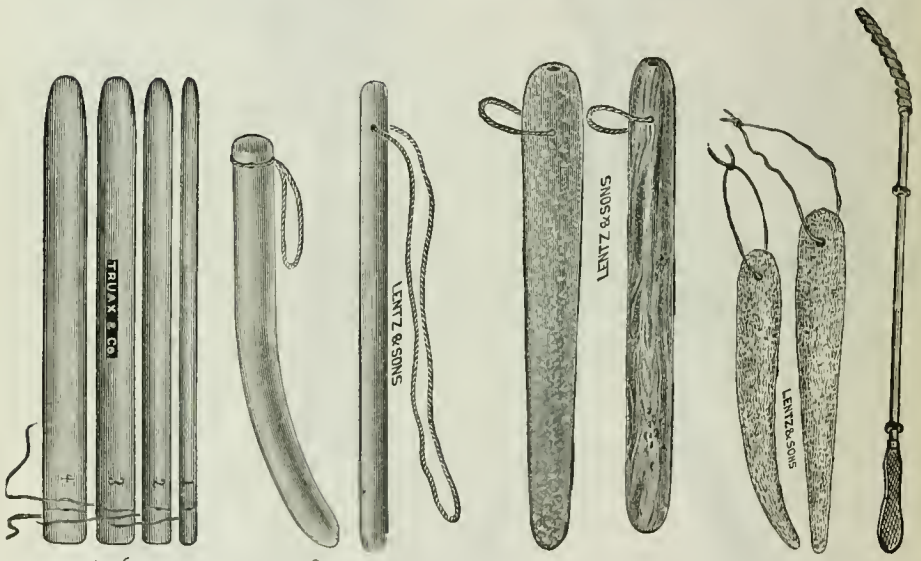
Gynecological Instruments.

TENTS AND INTRODUCERS.



4324

4325



4326

4328

4331

4334

4330

4333

4332

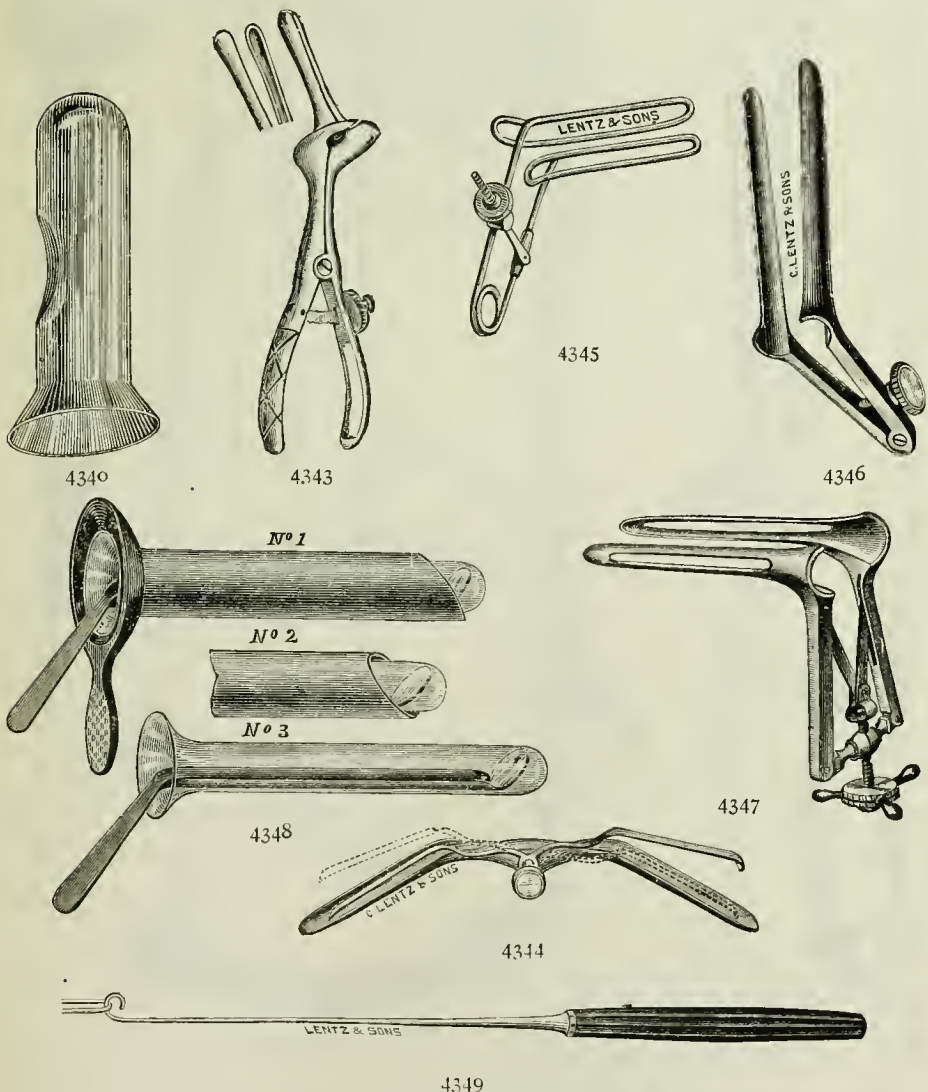
4336

4324.*	Cervical Dilators, Outerbridge's, silver wire, different sizes	each	\$0 35
4325.*	Introducer, " " for wire dilators		1 25
4326.*	Slippery Elm Tents, solid, four sizes	each, \$0	20; doz. 1 75
4327.	" " " hollow, three sizes	"	25; " 2 40
4328.*	" " " curved, " "	"	30; " 2 60
4329.	Sea Tangle Tents, solid, assorted sizes	"	25; " 2 25
4330.*	" " " hollow, " "	"	30; " 2 60
4331.*	Tupelo Tents, solid, " "	"	25; " 2 25
4332.*	Sponge " best quality, straight, assorted sizes	"	20; " 1 75
4333.*	" " " " curved, " "	"	25; " 2 40
4334.*	" " " " glazed, straight	"	25; " 2 40
4335.	" " " " curved	"	35; " 2 75
4336.*	Tent Introducer and Expeller		45

All instruments illustrated are designated by a *.

Gynecological Instruments.

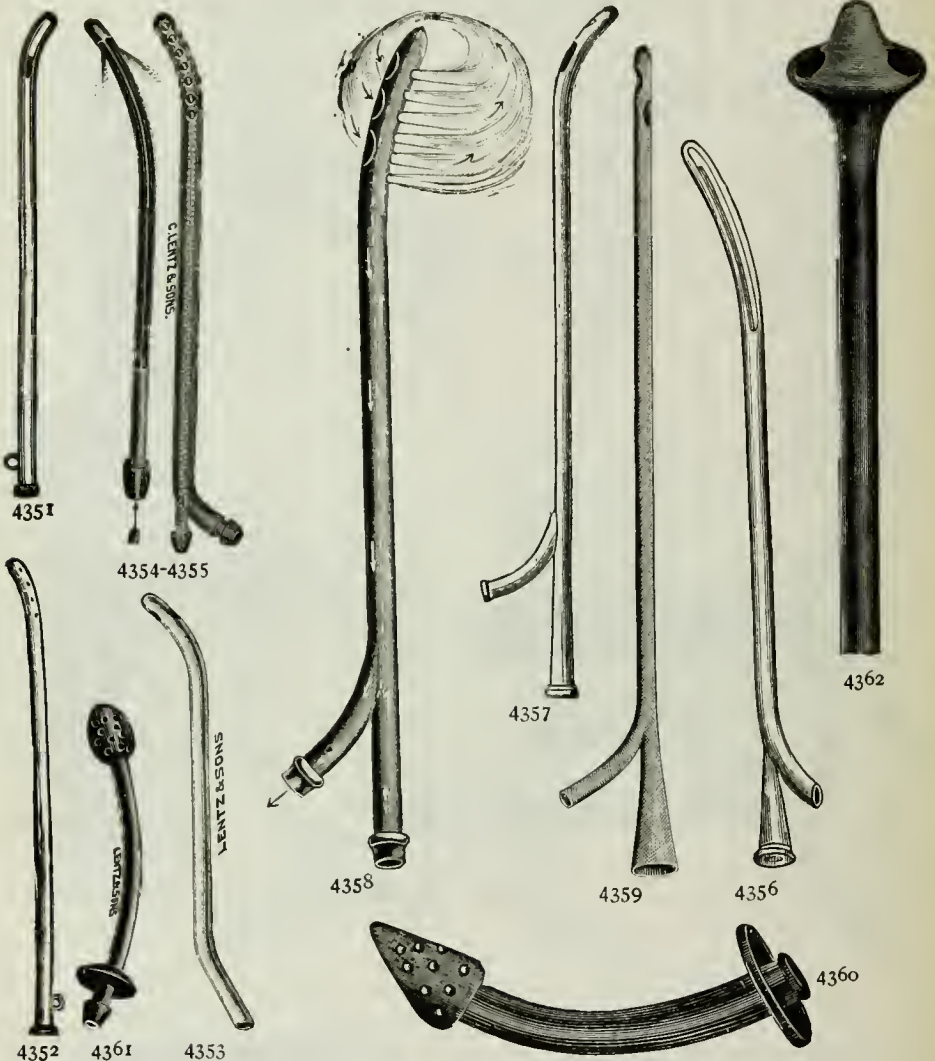
URETHRAL SPECULA AND VAGINAL DILATORS.



4340.*	Vaginal Dilator, Sims', glass, six sizes	each	\$0 30
4341.	" " " hard rubber, four sizes	"	80
4342.	" " Hanks' " " large olivary, double ended, set of ten	4	25
4343.*	Urethral Speculum, Skene's, bivalve	1	25
4344.*	" " " "	1	25
4345.*	" " Skene's-Folsom's		90
4346.*	" " Caro's, wrought metal		75
4347.*	" " Sampson's	1	25
4348.*	" Endoscope, Skene's, three sizes	each	2 00
4349.*	" Hook, for the extraction of hair pins from the female urethra	1	00

*All instruments illustrated are designated by a *.*

Gynecological Instruments.
CATHETERS, SINGLE AND DOUBLE CURRENT.

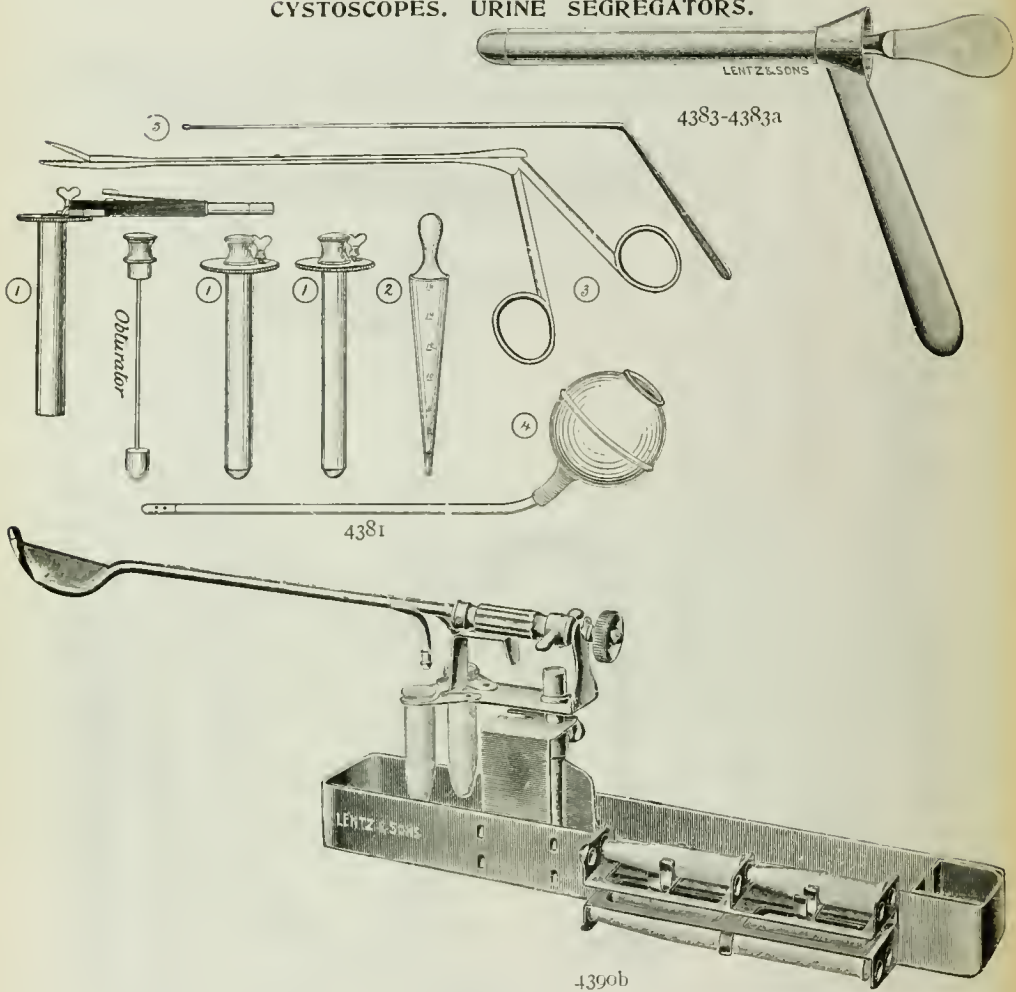


4351.*	Female Catheter	silver plated, 35c. ; silver	\$0 80
4352.*	"	with small holes	35c. ; "
4353.*	"	glass	each, 5c. ; dozen
4354.*	"	Skene's, reflux, plated	75
4355.*	"	Double Current, Skene's, plated	1 00
4356.*	"	" Nott's "	1 00
4357.*	"	" " regular pattern, plated	1 20
4358.*	"	" " latest pattern, "	1 00
4359.*	"	" " "Superior Linen," flexible	1 25
4360.*	"	Goodman's, self-retaining . . . hard rubber, 50c. ; plated	75
4361.*	"	Skene's-Goodman's, self-retaining	
		hard-rubber, 50c. ; plated	75
4362.*	"	Pezzer's, self-retaining, with mushroom	
		capot, best quality, soft rubber	80

Can be sterilized by steam or immersed in mercury bichloride solution.
 For other illustrations of Pezzer's Catheters see "Male Urethral Instruments."

*All instruments illustrated are designated by a *.*

Gynecological Instruments.
CYSTOSCOPES. URINE SEGREGATORS.



- 4383.* Cystoscope, Kelly's, with funnel, sixteen sizes, from 5 to 20 mm. diameter, each \$1 25
- 4383a.* " " latest with large funnel, black inside, sixteen sizes, from 5 to 20 mm. diameter each 1 75
- 4383b. " " illuminating 7 00
- 4384. Cystoscopic Set, Kelly's, containing 4 cystoscopes, 4 double-end urethral dilators, 3 plated ureteral catheters, mouse-toothed vesicle forceps, searcher, applicator, calibrator and evacuator; without case, \$14 50; in case 18 50
- 438I (I)* Cystoscopic Set, Ashton-Gans', illuminating; consisting of 3 cystoscopes, sizes 24, 30 and 36, with obturators, one light carrier and cords 15 00
- 438I (1)* Cystoscope, Ashton-Gans', illuminating, with light carrier and cords 9 00
- 438I (2)* Calibrator, Kelly's 85
- 438I (5)* Searcher " 60
- 438I (3)* Foreign-body Forceps, Kelly's, serrated, straight 7 00
- 438I (4)* Evacuator, Ashton's 1 00
- 4382. Catheter Conducting Forceps, Ashton's, alligator jaw, curved to side 7 50
- 4390. Urine Segregator, Harris', in case 15 00
- 4390a. " " Cathelin's, in metal case 70 00
- 4390b.* " " Luys', complete, with six glass tubes, in metal case 42 00

Gynecological Instruments.

VAGINAL NOZZLES, IRRIGATORS AND SHUT-OFFS.



4404



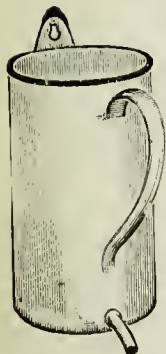
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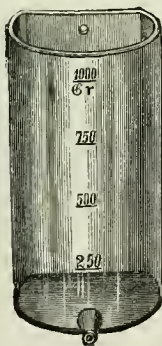
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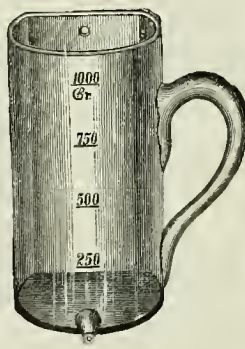
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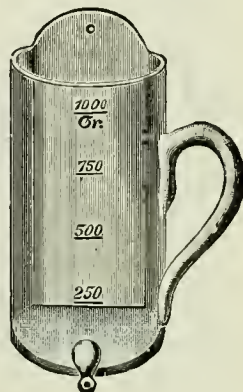
4407



4408



4413



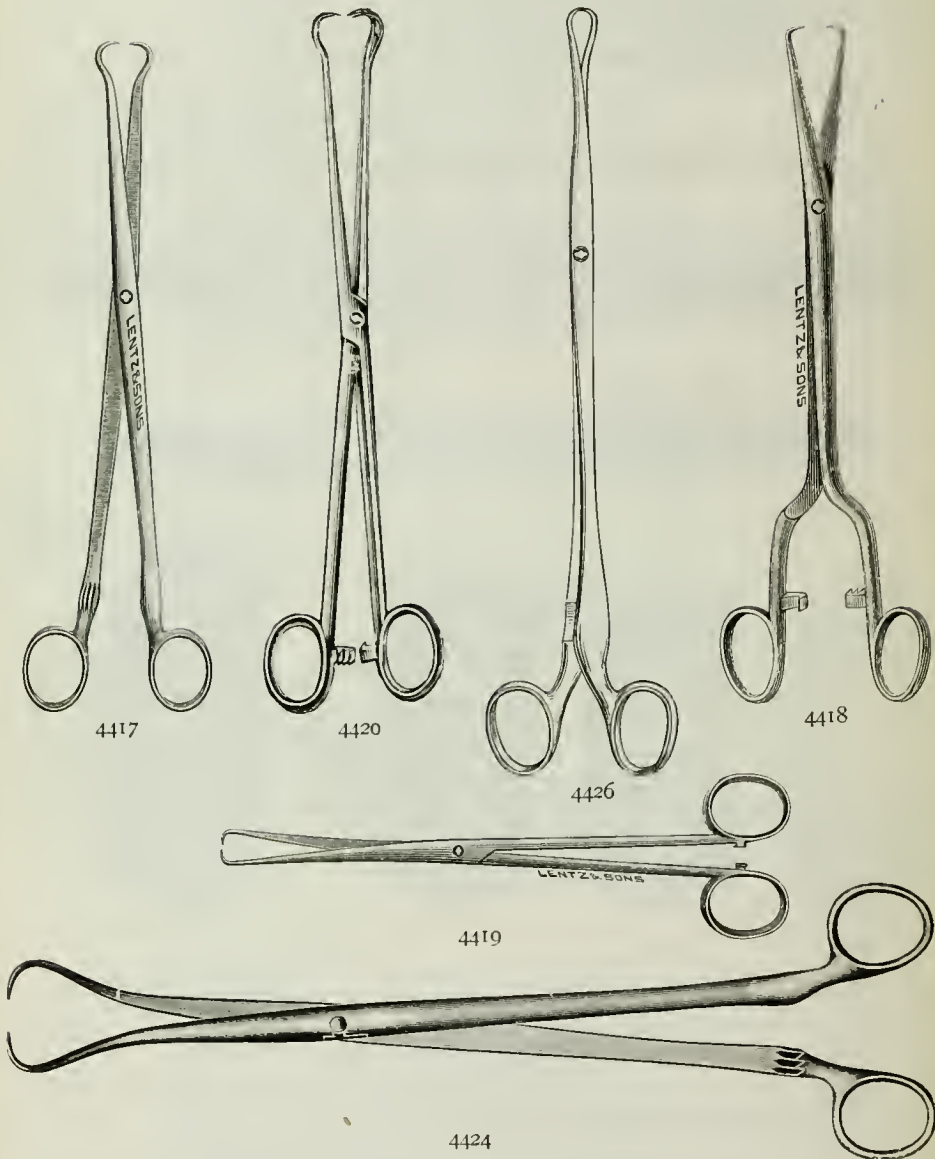
4414

4404.*	Vaginal Irrigating Nozzle, glass	each, \$0 10; dozen	\$1 00
4405.*	“ “ “ “ Robb’s	10; “	80
4406.*	“ “ “ “ large for vaginal flushing; cut is actual size	10; “	80
4409.	“ “ “ “ hard rubber, like fig. 4404;	20; “	1 00
4410.	Rectal “ “ “ “	15; “	75
4411.*	Irrigator Shut-off, self-retaining, nickel-plated, easily adjustable to control the flow through any size tubing	“ 60; “	6 00
4412.	“ “ metal, automatic, as used on Fountain Syringes	small, per doz., \$0 50; large, per doz	75
4407.*	Irrigator, steel, white enameled, flat back and bottom, with handle, 1½-qt., \$0 90; 2-qt., \$1 00; 3-qt., \$1 20; 4-qt., \$1 40; 5-qt.		1 70
4408.*	“ crystal glass, flat back and bottom; graduated, 1-qt., \$0 90; 2-qt., \$1 20; 3-qt., \$1 55; 4-qt.		2 00
4413.*	“ “ “ mug shape, with handle; graduated, 1-qt., \$1 05; 1½-qt., \$1 20; 2-qt., \$1 35; 3½-qt.		1 70
4414.*	“ “ “ mug shape, with handle, raised back; graduated, 1 qt., \$1 25; 1½ qt., \$1 50; 2 qt.,		1 65

For Tubing, white and pure gum, also Vaginal Syringes, see Rubber Goods.

Gynecological Instruments.

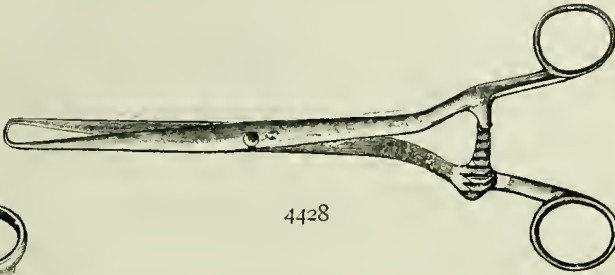
TENACULUM FORCEPS.



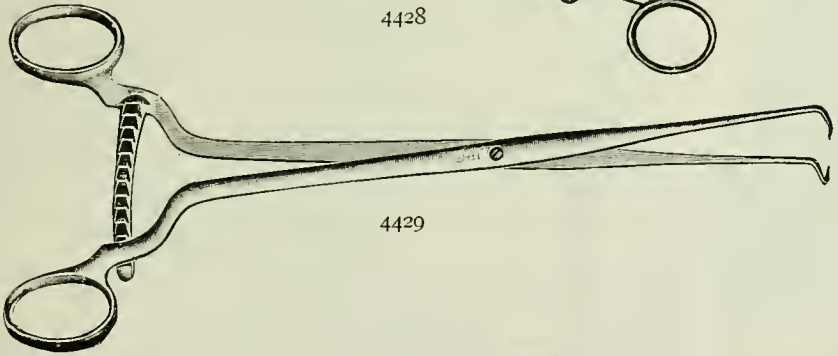
4417.*	Tenaculum Forceps,	Goodell's, 10 inches long	\$2 00
4418.*	"	Braun's, with three catches, 10 inches long	1 75
4419.*	"	Robb's, with one catch, 8¾ inches long	1 60
4420.*	"	Wylie's, three prongs, with three catches, 8½ inches long	2 25
4421.	"	Schroeder's, with three catches, 10 inches long	1 75
4422.	"	Skene's, curved sideways, 8½ inches long	1 75
4423.	"	Allis-Goodell's, hook and eye points, 10 inches long	2 25
4424.*	"	Hirst's, with large hooks, 10 inches long	2 25
4425.	"	Edebohls' light, three prongs, 8½ inches long	2 25
4426.*	"	Ashton-Goodell's, small hooks, 10 inches long	2 00

Gynecological Instruments.

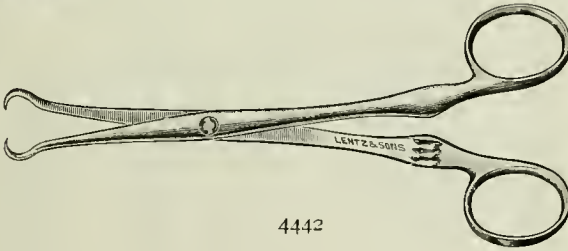
TENACULUM FORCEPS.



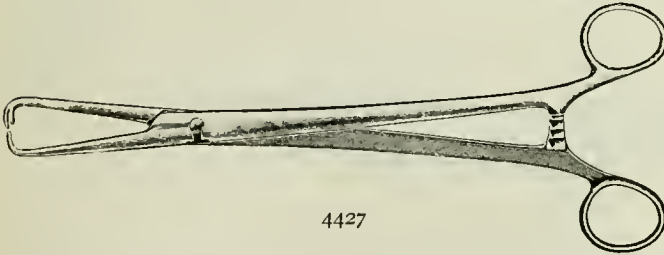
4428



4429



4442



4427



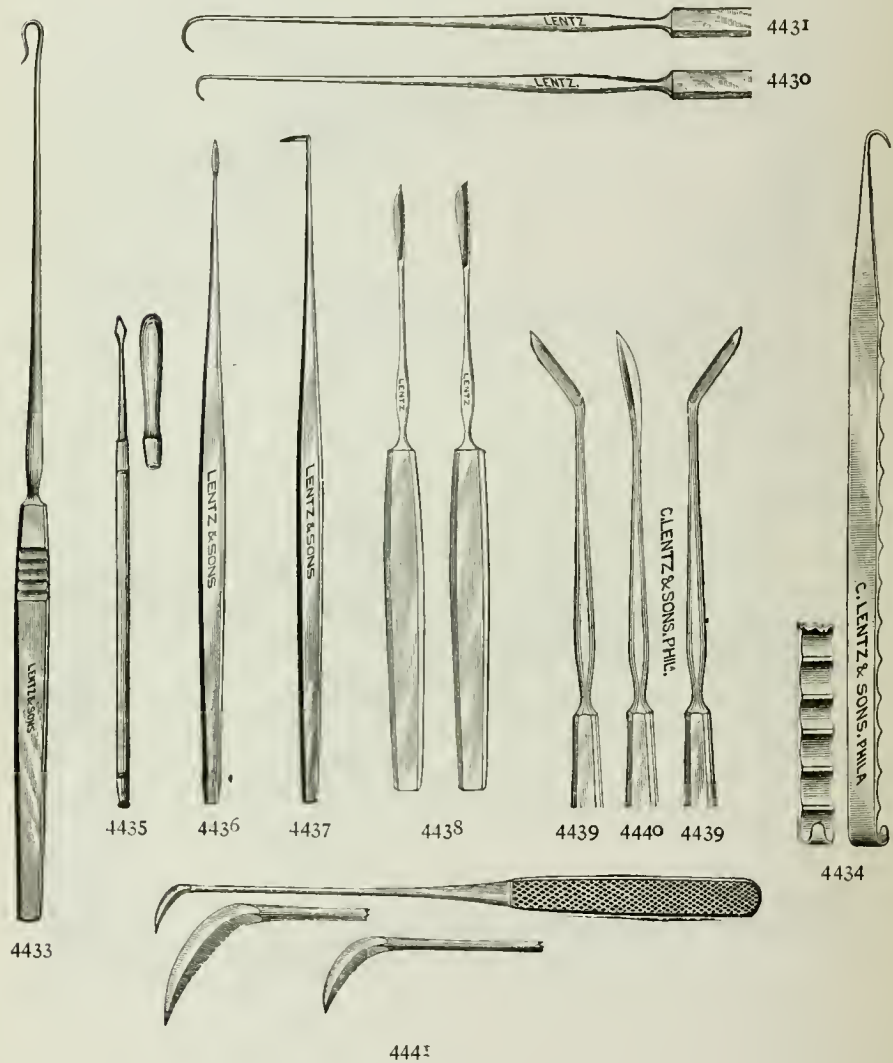
4444

4427.*	Tenaculum Forceps,	Pryor's, three prongs, blunt, 9¼ inches long . . .	\$2 75
4428.*	"	Newman's, reversible, 9½ inches long	2 25
4429.*	"	Barrett's, for plastic operations upon posterior wall of uterus	2 25
4442.*	"	Purnell's, 6 inches long	2 00
4442a.	"	Bernay's, 5 "	1 25
4443.	Clamp,	Backhaus', for fastening cloths around field of operation, 3½ inches long. (See illustration, page 25.) per doz., \$9 00; each	85
4444.*	"	W. W. Babcock's, self-closing, for fastening cloths around field of operation, per doz., \$6 00; each	65

All instruments illustrated are designated by a *.

Gynecological Instruments.

TENACULA, SCARIFICATORS AND KNIVES.

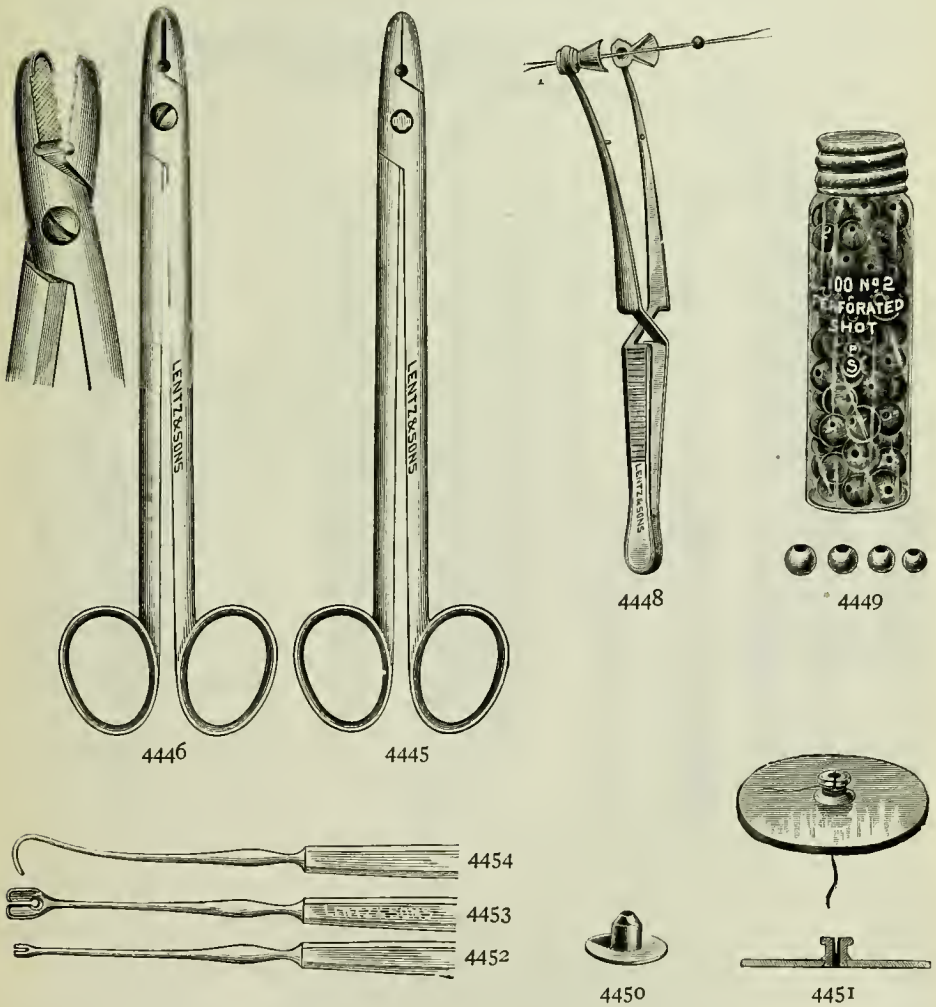


4430.*	Tenaculum, Sims'	80
4431.*	" Goodell's, heavy	80
4432.	" Emmet's	80
4433.*	" Kelly's, shepherd's crook	1 00
4434.*	" with corrugated handle	1 25
4435.*	Scarificator, Buttle's, with cap to protect point	1 00
4436.*	" Kelly's	1 25
4437.*	" (Knife Blade Tenaculum)	1 25
4438.*	Uterine Scalpel, different sizes	each
4439.*	" Bistoury, angular, right or left	1 35
4440.*	" Knife, curved on flat, double edged	1 75
4441.*	Trachelorrhaphy Knives, Goelet's, metal handles, three sizes	1 75
		2 00

All instruments illustrated are designated by a *.

Gynecological Instruments.

SHOT COMPRESSING FORCEPS AND COUNTER-PRESSURE INSTRUMENTS.

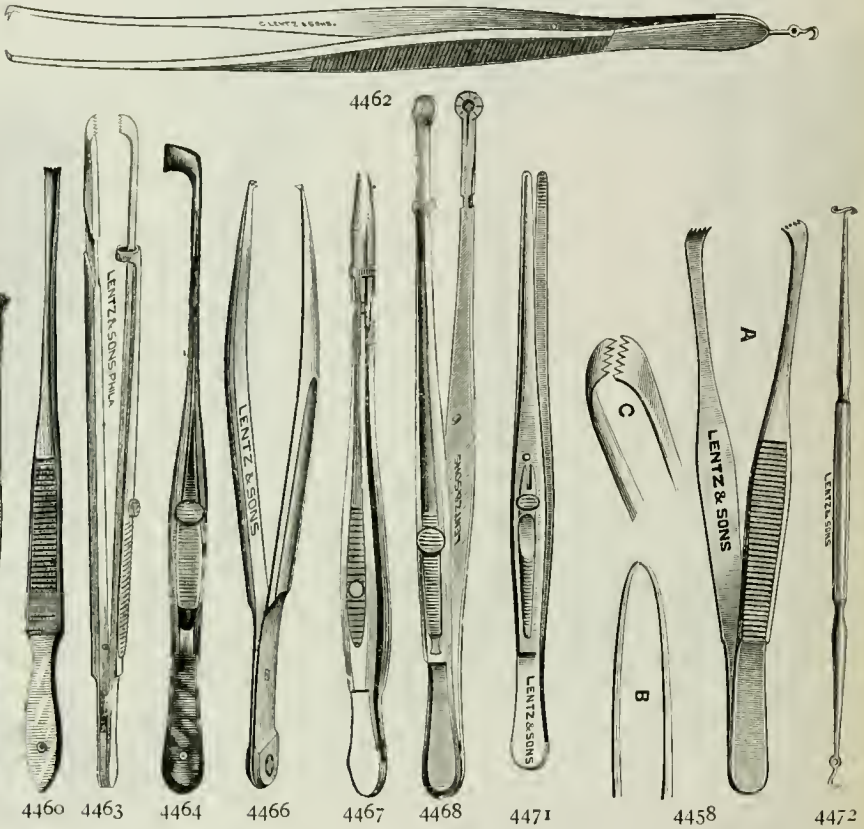


4445.*	Shot Compressing Forceps, with French joint	\$1 75
4446.*	" " and Ligature Cutting Forceps, combined, Miller's	3 75
The beaks have two semi-circular, raised cutting edges for cutting off the ligatures after the shot is compressed. This combination saves much time, as it avoids the necessity of taking up the scissors for each ligature.		
4447.	Shot Perforating Forceps	\$2 50
4448.*	" Feeder, Morton's, with 6 dozen shot and pin	3 75
4449.*	Perforated Shot, Nos. 9, 11, 12, 14, French scale,	
	per doz., 10c.; per hundred	60
4450.*	Suture Button, Getchell's	50
4451.*	" " Powell's	I 25
4452.*	Pulley or Fork, Sims'	75
4453.*	Wire Adjuster or Shield, Sims'	I 00
4454.*	Blunt Hook, Sims', for counter-pressure	75
4455.	Fork, Wylie's, for counter-pressure	I 00

All instruments illustrated are designated by a *.

Gynecological Instruments.

TISSUE HOLDING AND WIRE TWISTING FORCEPS.

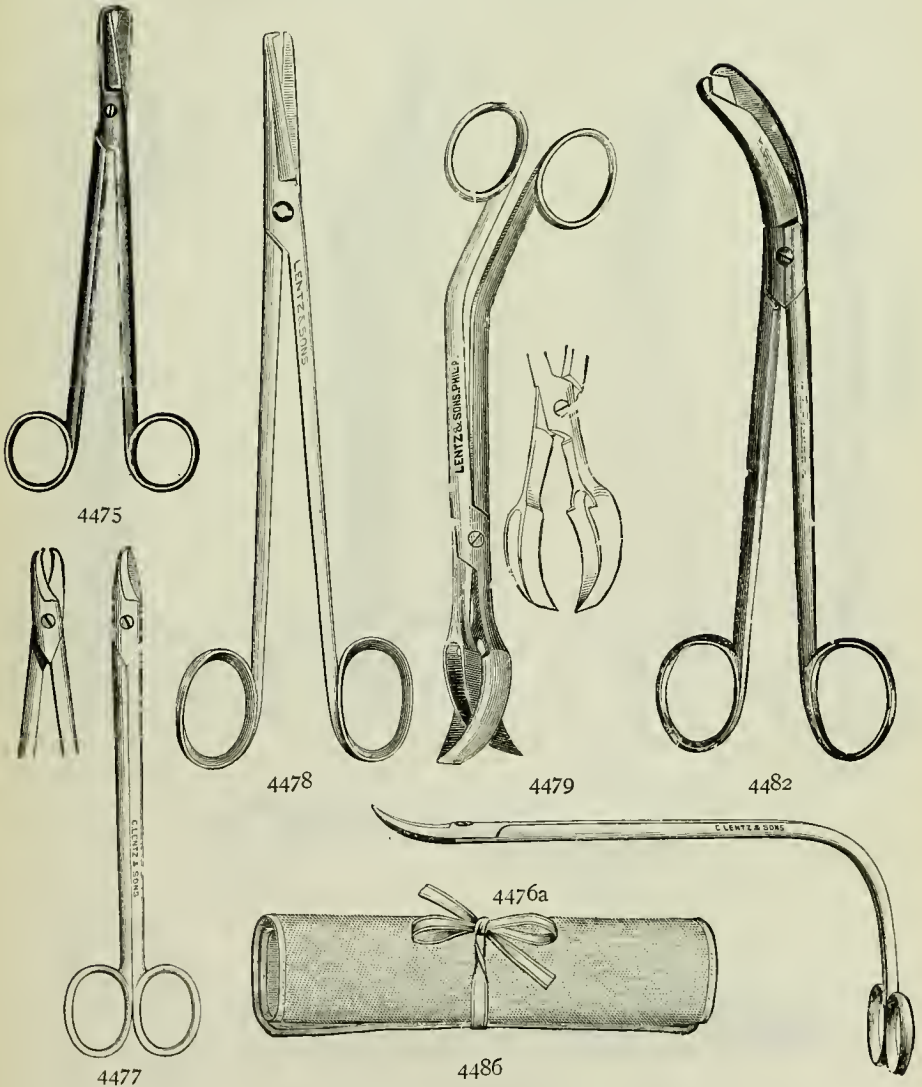


4459.*	Tissue Holding Forceps,	I. S. Stone's; five and six teeth, 6 in. long .	\$1 50
4459.*	"	" five and six teeth, 6 inches long	1 35
4460.*	"	" broad points, five teeth, 7½ inches long . .	1 50
4461.	"	" serrated teeth, 6 inch, \$0 85; 7 inch, \$1 00;	
		8 inch	1 25
4462.*	"	" Agnew's; one and two teeth, 8 inch	2 25
4463.*	"	" Thomas'; straight, with slide catch, 8 inch .	2 75
4464.*	"	" " curved " " " 8 "	2 75
4465.	"	" Kelly's, one and two teeth, 6 inch	1 50
4466.*	"	" H. Robb's; one and two teeth, 5½ inch . . .	2 00
4467.*	Wire Twisting	" Sims'; slide catch	2 50
4468.*	"	" Emmet's; slide catch	2 50
4469.	Tissue Holding	" Mayo's; one and two teeth, 3½ inch	90
4470.	"	" C. P. Noble's; one and two teeth, slide catch,	
		7½ inch	3 00
4471.*	"	" C. P. Noble's; serrated, for stitches, slide	
		catch, 7½ inch	2 85
4472.*	Wire Twister and Adjuster Combined		1 50

All instruments illustrated are designated by a *.

Gynecological Instruments.

VESICO-VAGINAL SCISSORS.

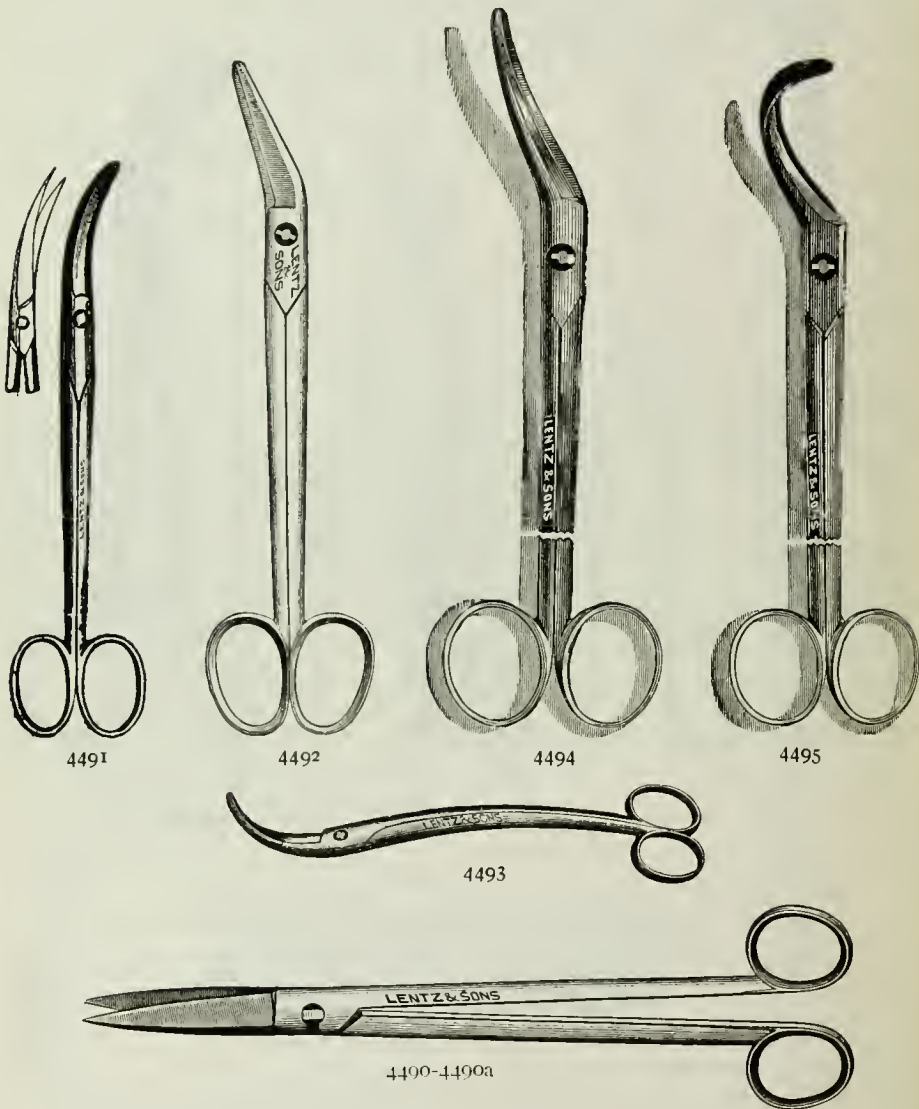


- | | | | |
|---------|--|------|--------|
| 4475.* | Scissors, Suture Cutting, Dawson's; straight or curved | each | \$2 25 |
| 4476. | " " " Littauer's (see illust., page 68), 5½ inch, \$1 50; 7½ inch | 2 00 | |
| 4476a.* | " " " Hirst-Wilson's; curved blade, bent handle | 2 50 | |
| 4477.* | " " " Smith's | 1 75 | |
| 4478.* | " " " Skene's. | 2 25 | |
| 4479.* | " for operating on lacerated cervix, Skene's | 6 00 | |
| 4482.* | " Trachelorrhaphy, Hanks' | 2 00 | |
| 4483. | " sawtooth edge, Sims'; straight, \$1 50; curved on flat | 1 75 | |
| 4485. | " buttonhole, for the bladder, Skene's | 2 25 | |
| 4486.* | Roll for holding any kind of Uterine Instruments, made of washable white duck, with many adjustable loops, 12 inches wide, 23, 29 and 32 inches long | each | 1 00 |

All instruments illustrated are designated by a *.

Gynecological Instruments.

VESICO-VAGINAL SCISSORS.



4490.*	Uterine Scissors, straight, sharp or blunt points	7½-in., \$1 25; 8-in.	\$1 40
4490a.*	" " " " " "	extra heavy	1 75
4491.*	" " " " " "	curved on flat, sharp or blunt points, 7½-in., \$1 50; 8-in.	1 65
4491a.	" " " " " "	curved on flat, sharp or blunt points, extra heavy .	2 00
4492.*	" " " " " "	Emmet's, angular bent, 7½-in.	1 75
4494.*	" " " " " "	" " slight curve, right or left each	2 50
4495.*	" " " " " "	" " full " " " " " "	2 75
4493.*	" " " " " "	Bozeman's, double curved	2 50
4496.	" " " " " "	Byford's, straight, 8¼-in.	2 50
4497.	" " " " " "	" " curved, " " " "	2 50

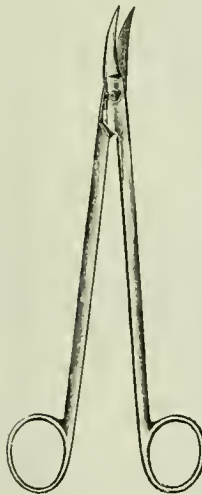
All instruments illustrated are designated by a *.

Gynecological Instruments.

VESICO-VAGINAL AND ABDOMINAL SCISSORS.



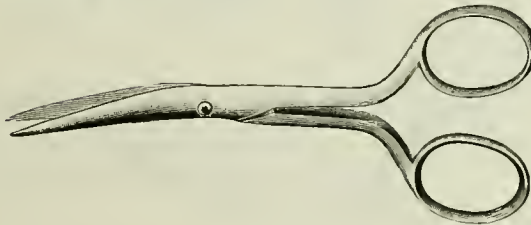
4487



4488



4498



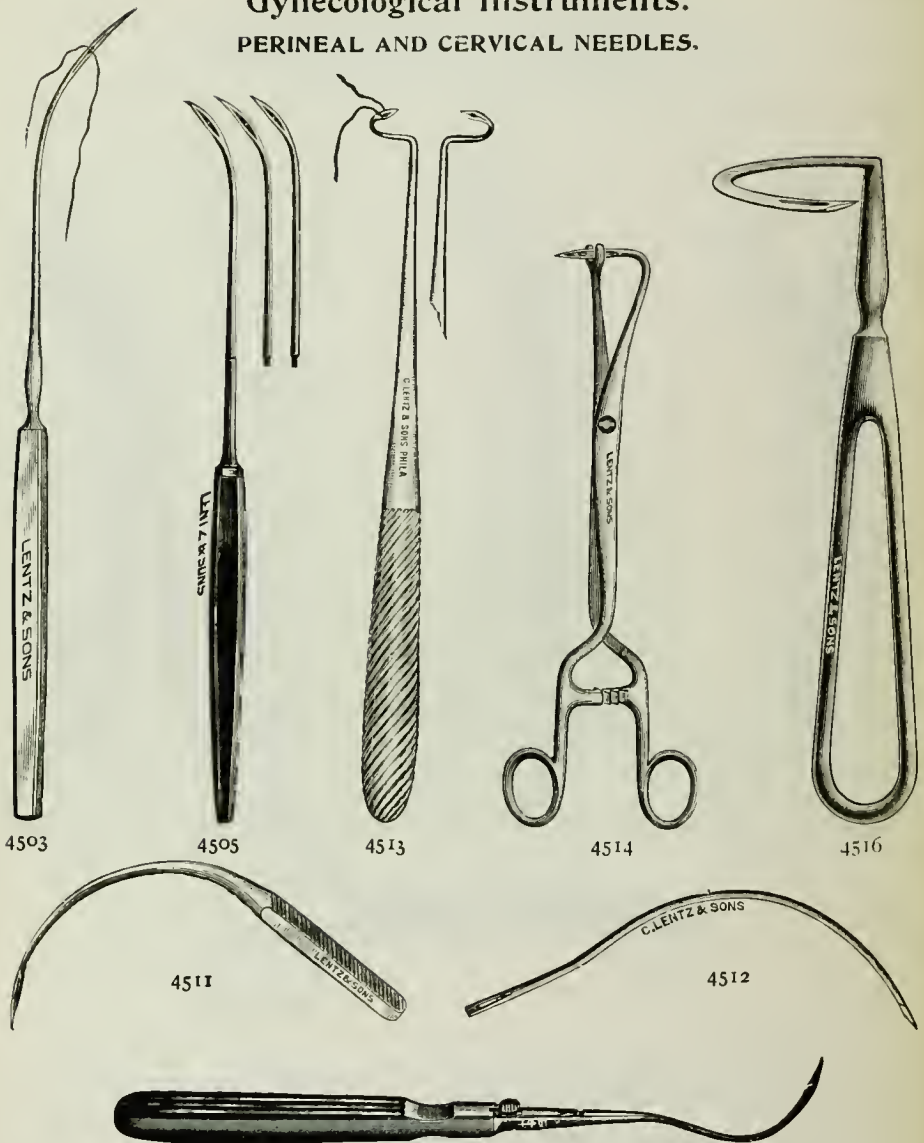
4489

4487.*	Uterine Scissors, Sims';	bent angular on flat, probe pointed . . .	\$1 80
4488.*	" "	Kelly's; light, curved on flat, sharp or blunt pointed each	1 50
4489.*	Peritoneal Scissors, Greig Smith's;	curved sideways	1 00
4498.*	" "	Olshausen's; angular	2 00
4499.	Perineal	Jenks'; round blades, curved on flat	1 75
4500.	Abdominal	Doyen's; heavy, straight, blunt pointed, 7 inch . . .	1 50
4501.	" "	" " curved " " 7 3/4 " . . .	1 75
4501a.	" "	Ferguson's; bent angular on flat, screw joint . . .	2 25

*All instruments illustrated are designated by a *.*

"Our Factory is equipped to repair, sharpen, polish and nickel plate your instruments in the best of manner and at shortest notice. For approximate costs of repair work, see page following index."

Gynecological Instruments.
PERINEAL AND CERVICAL NEEDLES.

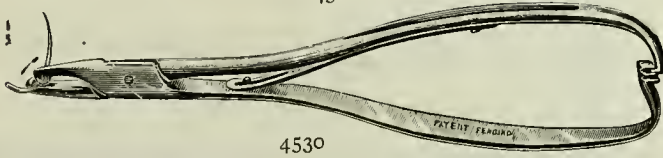
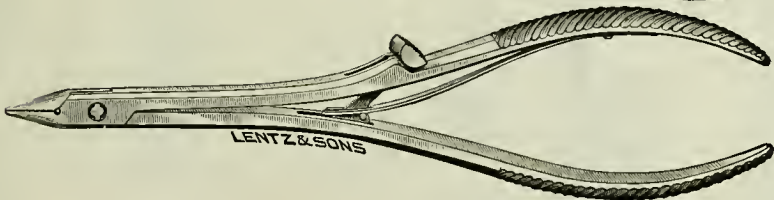
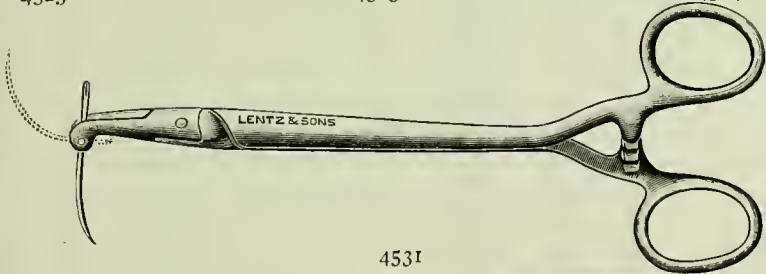
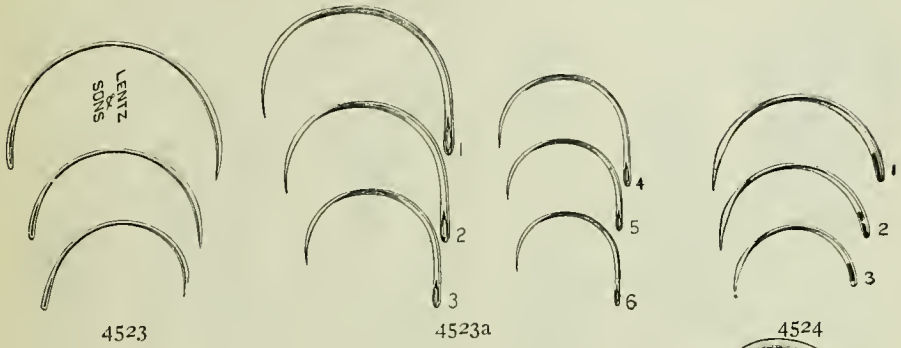


		4507	
4502.	Perineum Needle,	plain, metal handle	\$0 75
4503.*	"	Ashton's	85
4504.	"	Skene's, open eye, straight or curved	1 00
4505.*	"	Peaslee's, set of three.	2 50
4507.*	"	Reverdin's, with closing eye, four different curves, each	2 50
4508.	"	" " " automatic closing eye, different curves	3 00
4510.	"	Papin's	50
4511.*	"	Wilson's	1 00
4512.*	"	Goodell's, three sizes each	15
4513.*	Cervix	Wilson's, right and left	1 75
4514.*	"	Girvin's (with counter pressure)	3 25
4515.	"	Carsten's (see fig. 357, page 24)	1 25
4516.*	Perineum	B. C. Hirst's, full circle curve	2 00
4517.	Abdominal	Doyen's " " "	2 00

For other Needles see pages 17 to 24.

Gynecological Instruments.

NEEDLE HOLDERS AND NEEDLES.



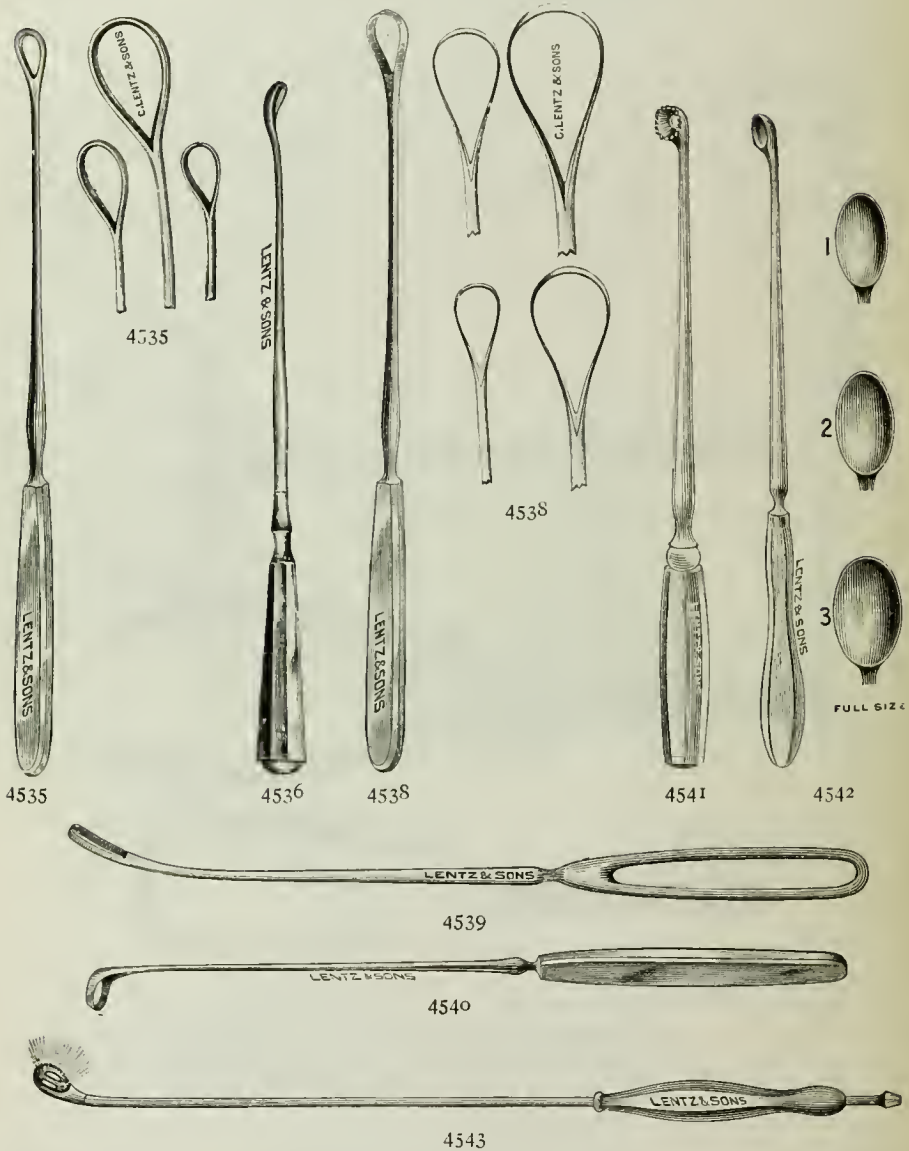
4518.	Cervix	Needles,	Emmet's, round point, $\frac{3}{4}$ to $1\frac{1}{2}$ inch	doz. \$	60
4519.	"	"	Hanks', double edge, stout, $\frac{7}{8}$ to $1\frac{1}{4}$ inch	"	85
4520.	"	"	Sims', concave point, straight or curved, $\frac{7}{8}$ to $1\frac{1}{2}$ inch	"	75
4521.	"	"	Skene's, trocar point, straight, stout, $\frac{7}{8}$ to $1\frac{1}{4}$ inch	"	75
4522.	"	"	Emmet's, " " stout, half and full curved, $\frac{7}{8}$ to 2 inch	"	60
4523.*	"	"	Kelly's, sickel-shape, three sizes	"	75
4523a.*	"	"	" rectangular, six sizes	"	75
4524.*	"	"	Murphy's, three sizes	"	85
4525.	"	"	Hagcdorn's, half curved and full curved	"	60
4526.	Needle	Holder,	Reiner's, 8 inches long	3	00
4527.	"	"	Kelly's	3	50
4528.*	"	"	Noble's improved Reiner's, 8 inches long	3	00
4529.	"	"	B. C. Hirst's, 8 inches long (see fig. 410)	3	25
4530.*	"	"	Richter's, holds any style needle, 7 and 8 inch	each	3 50
4531.*	"	"	Doyen's, will hold needle at any angle	3	00

For other patterns of Needles and Needle Holders, see pages 17 to 24.

All instruments illustrated are designated by a *.

Gynecological Instruments.

CURETTES.

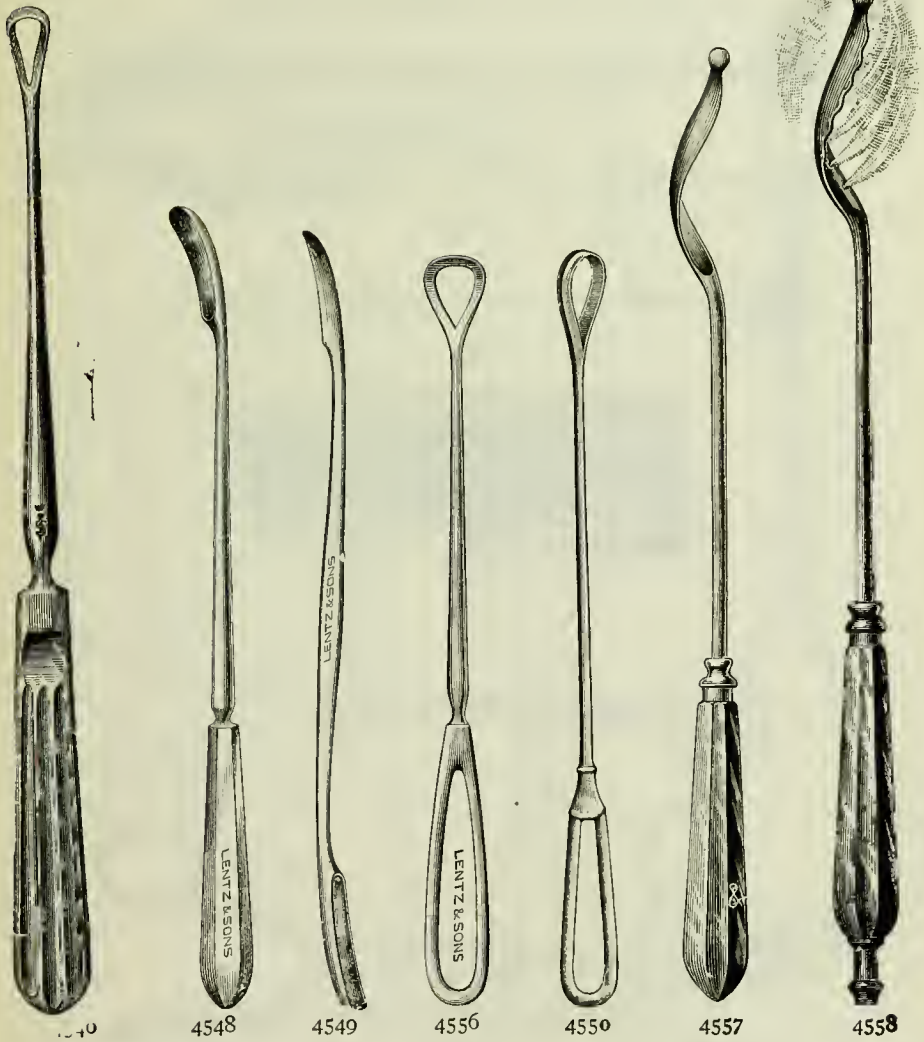


4535.*	Curette, Thomas', blunt, three sizes	each	\$1 00
4536.*	" Skene's, spoon-shaped		1 25
4537.*	" Green's, serrated		1 00
4538.*	" Sims', sharp, four sizes	each	1 15
4539.*	" " " delicate, slender loop for diagnosis		1 15
4540.*	" " " angular, all steel		1 75
4541.*	" Collins', serrated		2 00
4542.*	" Simon's, sharp scoop, three sizes	each	1 75
4543.*	" Rheinstetter's Rinsing, two sizes	"	2 50
4544.*	" Thomas', serrated scoop, large, metal handle		2 50

*All instruments illustrated are designated by a **

Gynecological Instruments.

CURETTES.



4546.*	Curette, Recamier's; sharp, six sizes	each \$1 75
4548.*	" Martin's; steel, sharp, curved	2 00
4549.*	" " " blunt, double ended	1 75
4550.*	" Reynolds'; sharp, double edged, flexible shank; three sizes	each 1 25
4452.	" Reynolds'; sharp, double edged, irrigating, three sizes	1 50
4555.	" auger shaped; three sizes	" 1 00
4556.*	" Franklin's; blunt, large loop, flexible shank	1 25
4557.*	" McDade's, spiral, with smooth or fluted edge	1 75
4558.*	" " " irrigating, with smooth or fluted edge	3 00
4563.	" Boldt's (carcinoma); sharp	3 00

"The name LENTZ on any instrument is to you a guarantee of superior quality and absolute reliability."

Gynecological Instruments.

RINSING CURETTES. CURETTING FORCEPS.



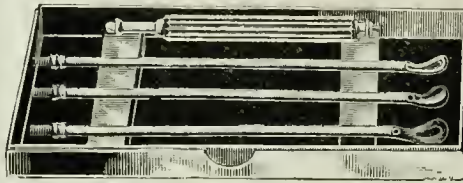
4565



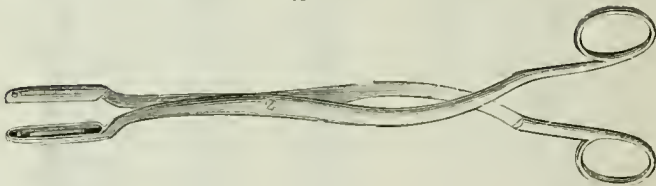
4564



4566



4560



4553

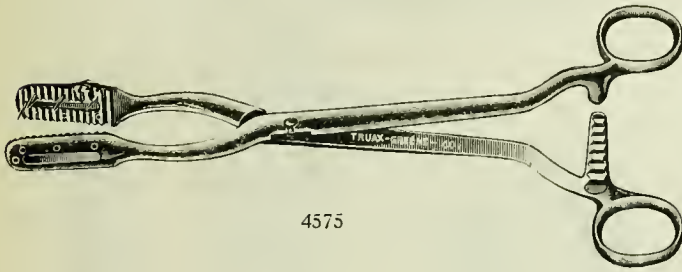


4554

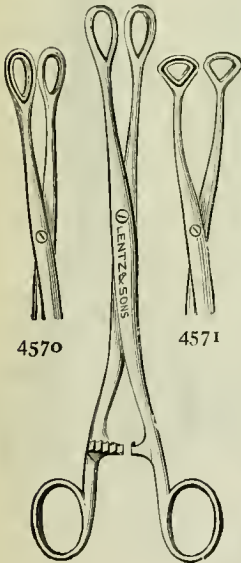
- 4564.* Curette, Sims', irrigating, three sizes each \$1 25
- 4565.* " Langstaff's, four sizes " 1 75
- 4566.* " Goldstein's, irrigating, three sizes " 1 25
- 4560.* " "Berlin," set of three and one handle 1 00
- 4561. " Lentz's set of three and one large handle; extra fine 1 75
- 4562. Gynecological Set, consisting of a set of rinsing curettes, tenaculum, graduated sound, probe, applicator, sponge holder and two handles, in morocco leather case 3 00
- 4553.* Curette Forceps, Emmet's 2 75
- 4554.* " " Chas. P. Noble's 2 75

All instruments illustrated are designated by a *.

Gynecological Instruments.
POLYPUS AND MORCELLEMENT FORCEPS.



4575



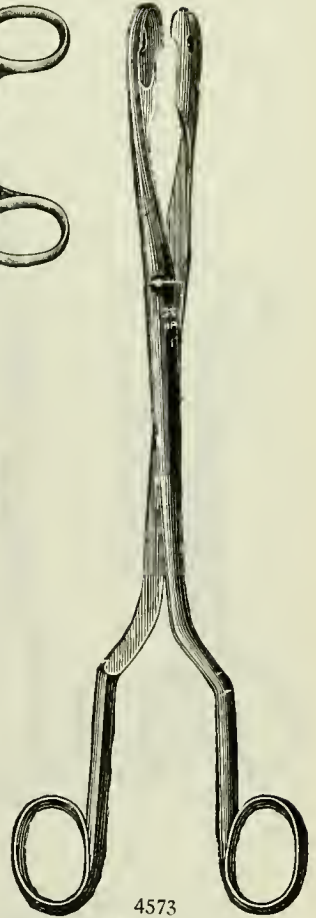
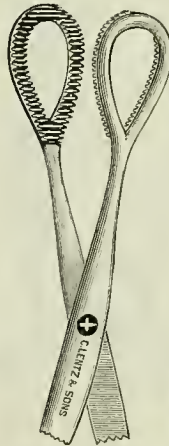
4570

4571

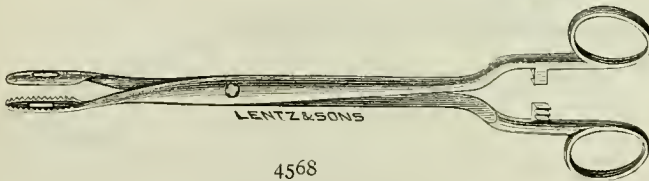
4569



4572



4573



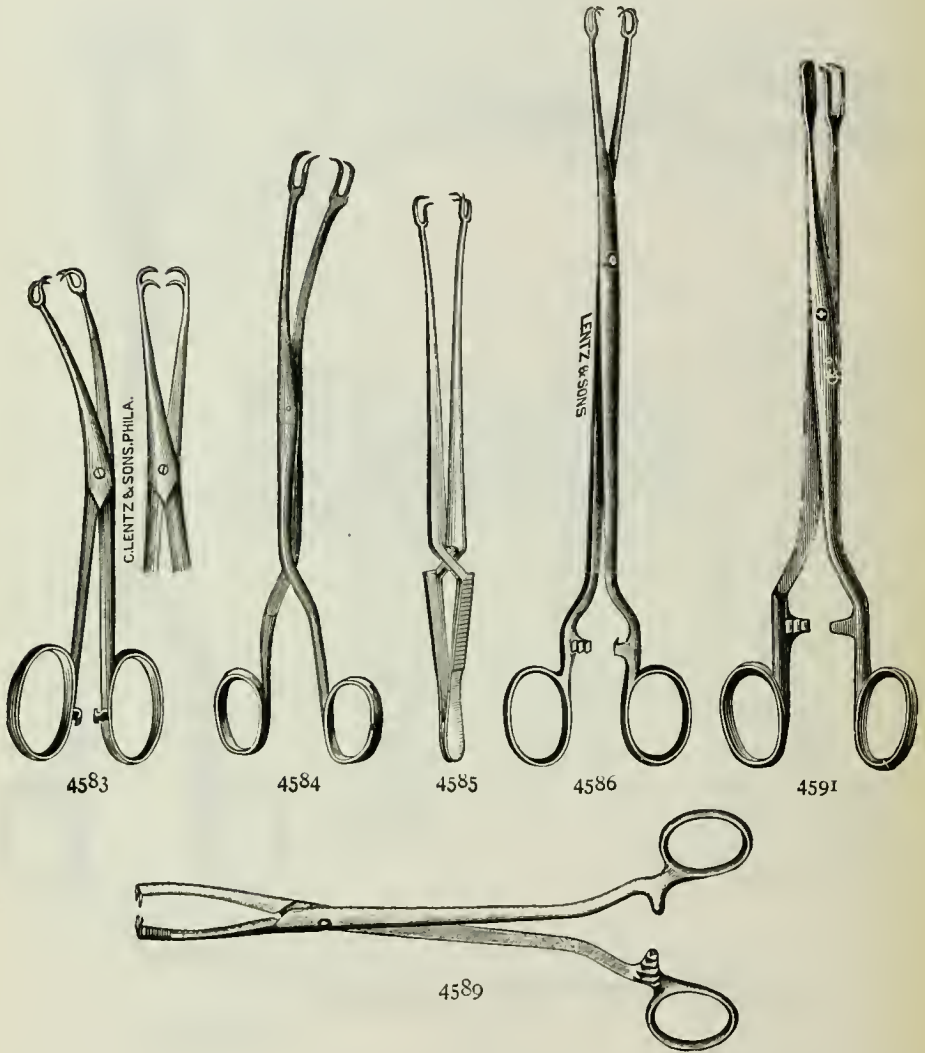
4574

4568.*	Polypus Forceps, long, heavy, with catches	\$2 00
4569.*	“ “ and Sponge Holder, straight, with round jaws and catches	2 00
4570.*	“ “ Luer's, straight, with sharp grooved jaws and catches	2 75
4571.*	“ “ “ “ curved, “ “ “ “ “ “ “ “	3 00
4572.*	“ “ Wilson's, straight, with serrated “ “ “ “	2 50
4573.*	“ “ Schultze's, with cutting edges	2 50
4574	“ “ Longyear's	2 25
4575 *	“ “ Pean's	4 00
4576.	“ “ McClintock's	4 00
4577.	“ “ Haywood's-Smith's small, \$3 50; large	5 00

*All instruments illustrated are designated by a *.*

Gynecological Instruments.

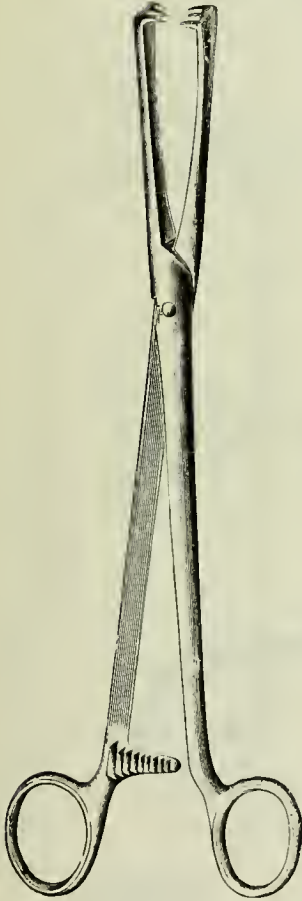
VOLSELLA FORCEPS.



4583.*	Volsella Forceps, curved, with catch;		
		6 inch, \$1 85; 8 inch, \$2 00; 10 inch	\$2 25
4584.*	"	10 inch, without catch, \$2 00; with catch	2 25
4585.*	"	cross-action, self holding, 8 inch	2 75
4586.*	"	Cushing's, with catch, 10 inch	2 25
4587.	"	Baer's, " 8 1/4 "	2 25
4588.	"	Jacobs', 8 inch	2 50
4589.*	"	Henrotin's, two teeth into three teeth, 8 inch;	
		without catch, \$2 60; with catch	2 75
4589a.	"	Teale's, curved	2 50
4590.	"	Leonard's, bent handle	2 25
4590a.	"	Schroeder's, curved on flat or to side, with catch	2 25
4591.*	"	Schultze's, with one flat blade and two prongs	2 25

All instruments illustrated are designated by a *.

Gynecological Instruments.
VOLSELLA FORCEPS. UTERO-TRACTORS.



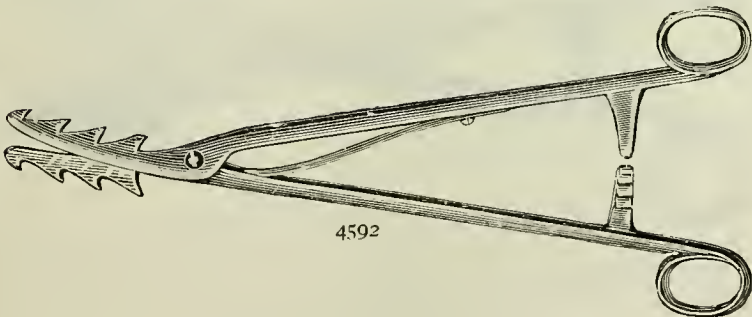
4579



4659



4593

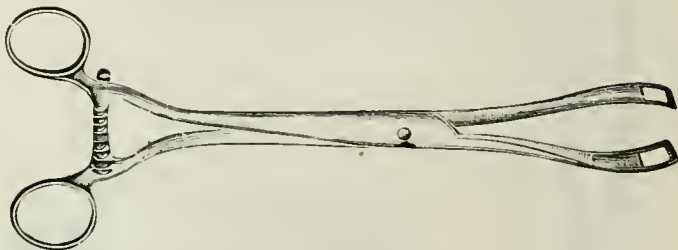


4592

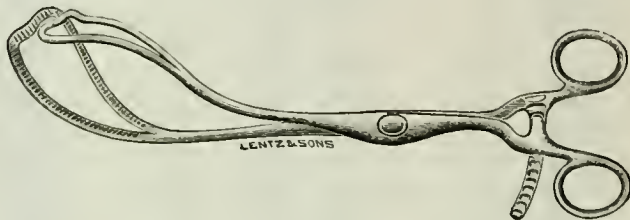
4578.	Volsella Forceps, Collin's, with jaws 8, 10 and 12 mm. wide	each	\$2 75
4579.*	" " Championniere's		3 00
4580.	" " Montgomery's, six prongs		3 75
4592.*	Utero-Tractor, Bernay's		4 50
4593.*	" " Pryor's		4 00
4659.*	Tumor Forceps, Segond's, straight, with two prongs on each side		3 00
4660.	" " " " three " " " " "		3 50
4661.	" " " " curved, " two " " " " "		3 50

Gynecological Instruments.

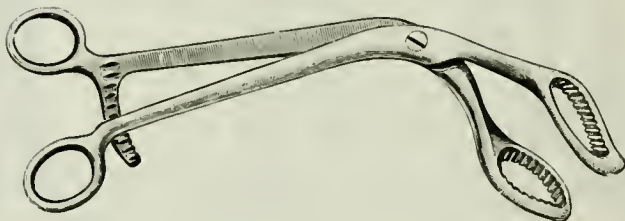
UTERUS ELEVATING FORCEPS.



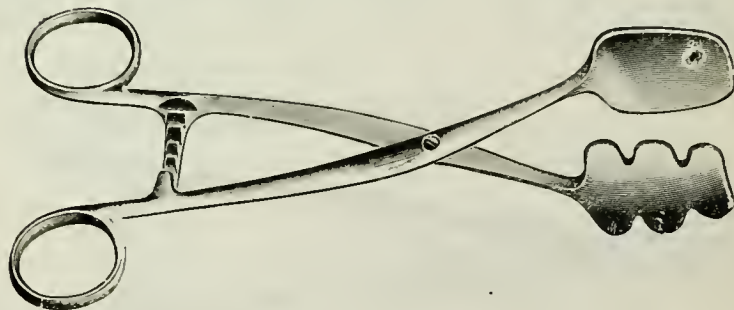
4594



4595



4596



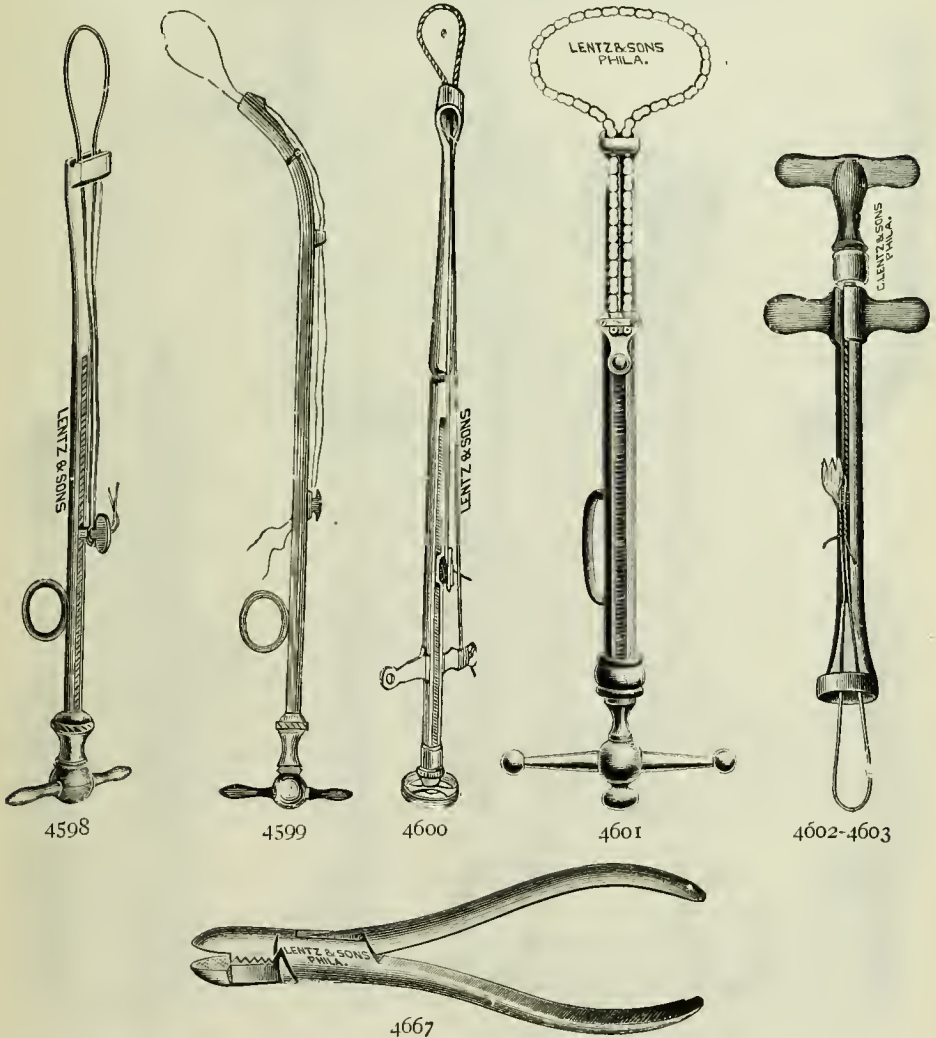
4597

4594.*	Uterus Elevating Forceps,	Cullen's	. . . . .	\$5 00
4595.*	"	"	"	7 50
4596.*	"	"	"	5 00
4597.*	"	"	"	3 50

The frequency with which operators find it necessary to use the tenaculum forceps to elevate the uterus, even though not wishing to remove the organ, and the difficulty experienced in checking the hemorrhage from the punctures so made, led to the construction of the forceps shown.

Gynecological Instruments.

ECRASEURS. SERRE-NOEUDS. OVARIOTOMY CLAMPS.

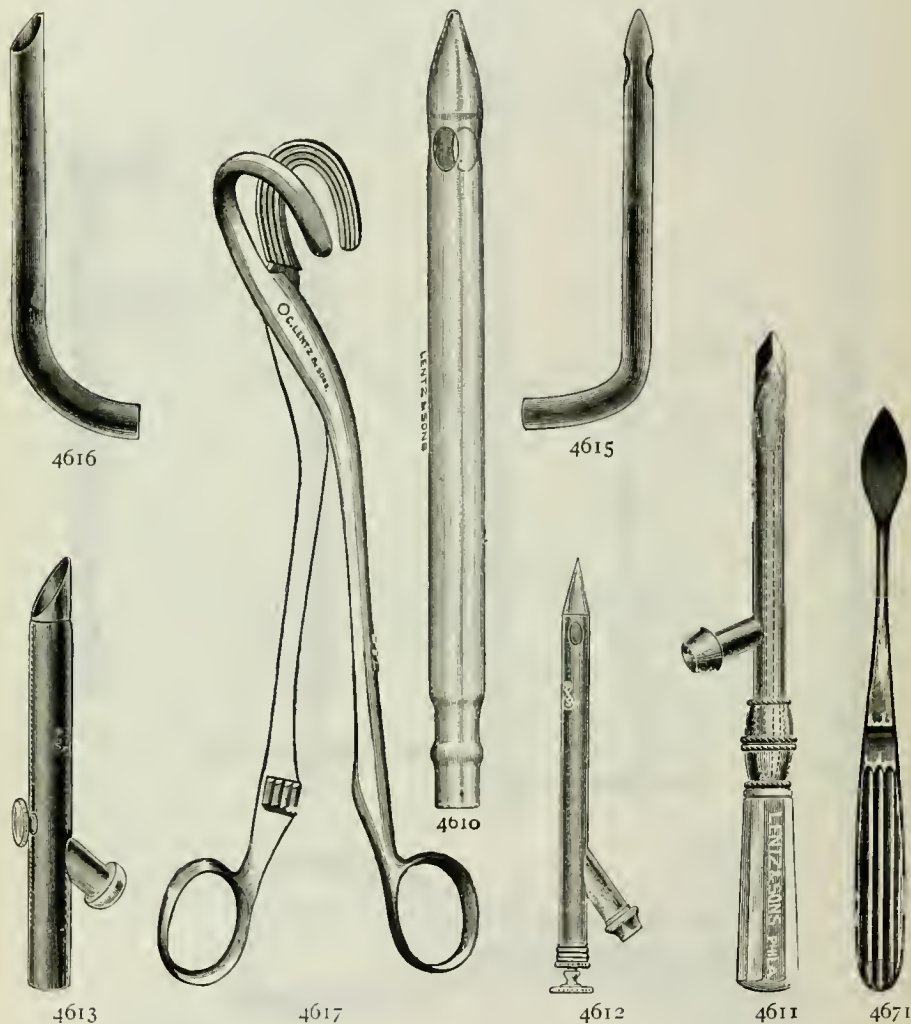


4598.*	Wire Ecraseur, Smith's, straight	\$3 00
4599.*	“ “ “ curved	3 25
4600.*	“ “ Braxton-Hicks', long, with straight and curved point	10 00
4601.*	Chain Ecraseur, Luer's	11 00
4602.*	Serre-Noeud, Koeberle's, made of phosphor-bronze, nickel-plated, small.	4 00
4603.*	“ “ “ “ “ “ “ “ “ “ large	4 50
4604.	Ovariotomy Clamp, Lawson Tait's	5 00
4605.	“ “ Keith's	6 00
4606.	“ “ Thomas'	3 00
4607.	Broom Wire, tinned iron, used with Ecraseurs	per yard 10
4608.	Delta Wire, used with Serre-Noeud	“ “ 25
4667.*	Wire Twisting and Cutting Forceps	2 00

All instruments illustrated are designated by a *.

Gynecological Instruments.

OVARIAN TROCARS.

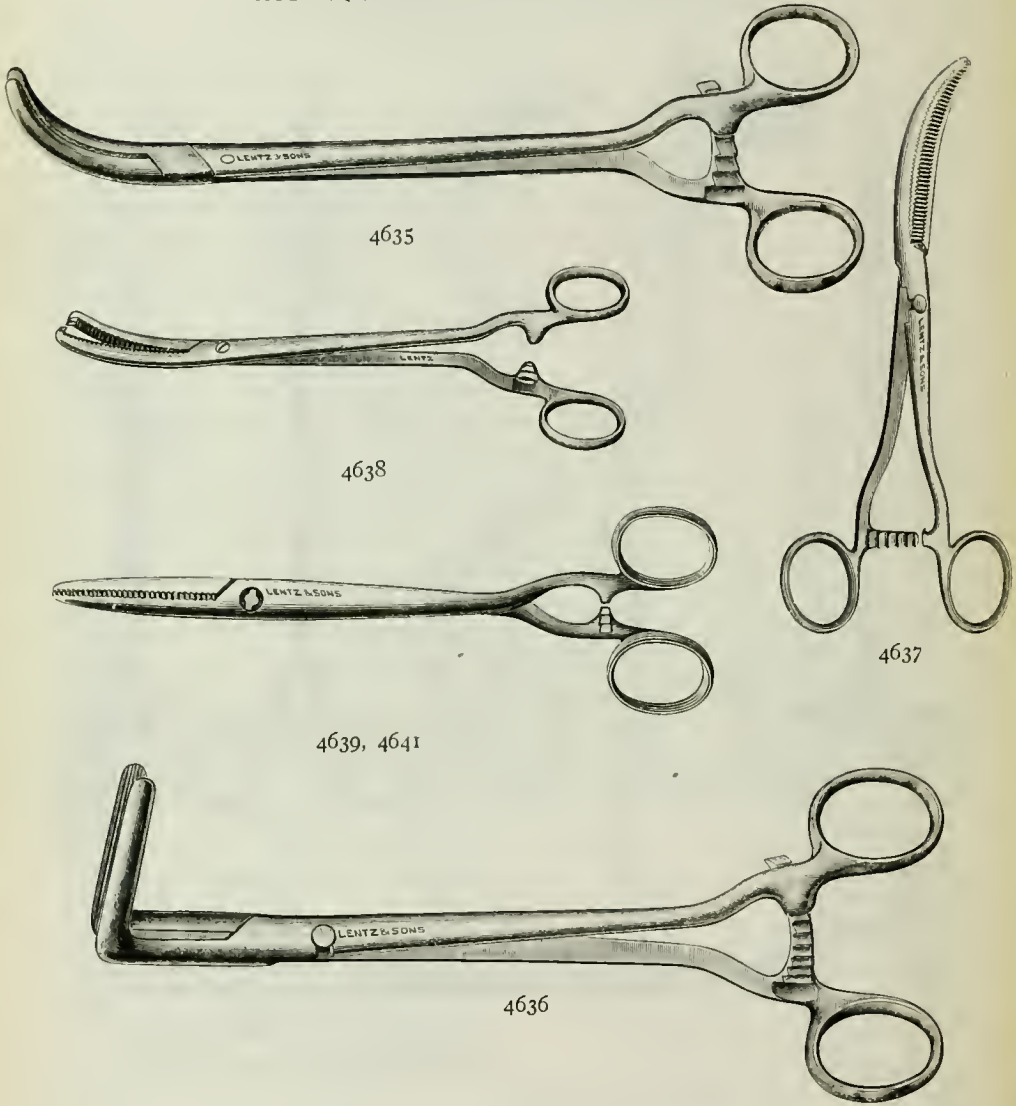


4610.*	Ovarian Trocar,	Kelly's, glass	\$1 25
4611.*	"	Emmet's, sizes 23 to 33 Fr., \$2 75; 34 to 40 Fr., each	3 00
4612.*	"	Pean's	3 50
4613.*	"	Dunster's	3 50
4614.	"	Lawson Tait's, improved, with clamps	8 00
4615.*	"	Wylie's, with blunt point.	2 00
4616.*	"	" sharp point.	2 25
4616a.	Ovarian Forceps,	Barrett's, for holding ovary during suturing	3 50
4617.*	Sac Forceps,	Price's, for complete closure of the trocar puncture	6 00
4618,	"	Wilcox's, 8½ inches long	4 00
4619.	"	Spencer Wells', 10 inches long	3 50
4669.	Myoma Screw,	Tait's, cone shaped, large ring handle	2 50
4670.	"	Doyen's,	1 50
4671.*	" Spud or Hysterectomy Knife,	Kelly's	2 50
4673.	Vesico-Vaginal Fistula Knife,	Kelly's	2 75

All instruments illustrated are designated by a *.

Gynecological Instruments.

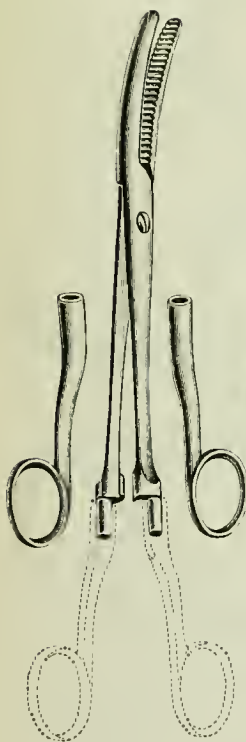
HYSTERECTOMY AND PEDICLE FORCEPS.



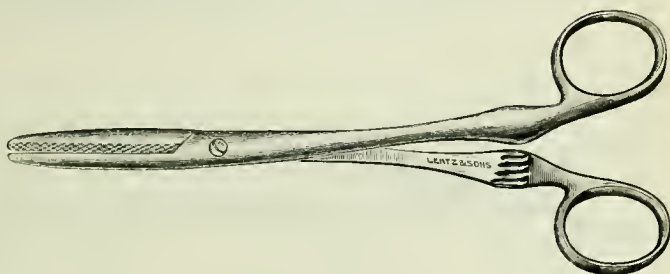
4635.*	Hysterectomy Forceps, Wertheim's, curved on flat, fine serrations, 11 inch	\$3 75
4636.*	" " " right angle, longitudinal serrations	4 50
4637.*	" " Pean's, curved, 6¼ inch, \$1 50; 8 inch	2 00
4638.*	" " Moynihan's, 8½ inch, straight, \$3 25; curved .	3 50
4638a.	" " Ferguson's, 7½ inch, straight, \$2 00; curved .	2 25
4639.*	" " Polk's, straight, double serrated jaws, 8½ inch	2 75
4640.	" " " curved, " " " 8½ "	3 00
4641.*	" " " heavy, straight, double serrated jaws	10 " 3 50

All instruments illustrated are designated by a *.

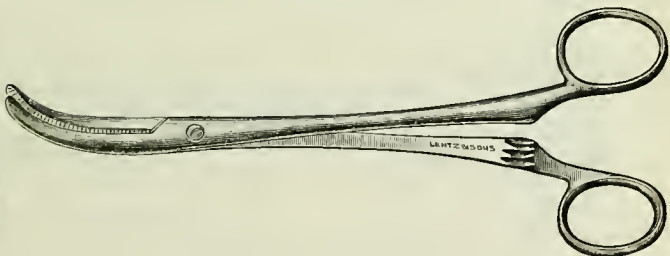
Gynecological Instruments.
HYSTERECTOMY FORCEPS. ANGIOTRIBES.



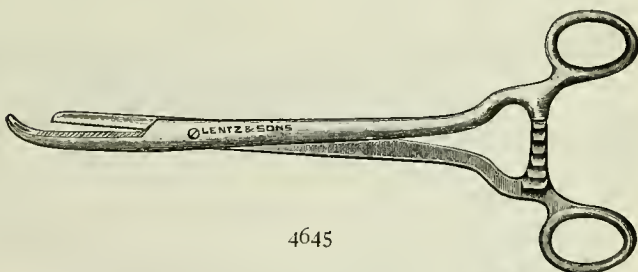
4642



4643



4644



4645



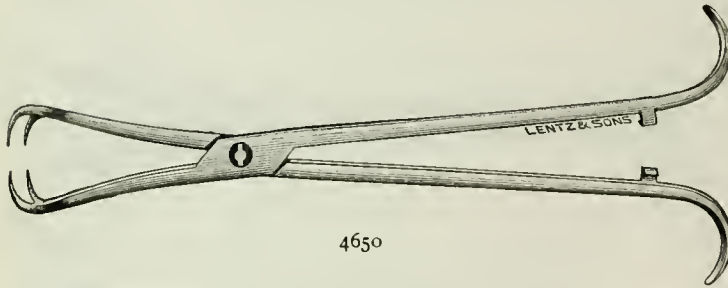
4662

4642.*	Hysterecctomy Forceps, Pryor's, set of six, with one pair of detachable handles	\$10 50
4643.*	" " Deaver's, straight, screw joint, 7½-inch	2 50
4644.*	" " " curved, " " 6½ "	2 50
4645.*	" " and Ligature Carrier, Sherk's	3 50
4646.	Angiotribe, Tuffier's	15 00
4647.	" Collins', with lever	10 00
4648.	" Electro-thermic, Downes'. (See page 64.)	
4649.	Angioclast, Bottini's, 5½-inch, \$2 50; 6½-inch	2 75
4662.*	Tumor or Cyst Forceps, Nelaton's	3 00
4663.	" " " " Wilson's	4 75

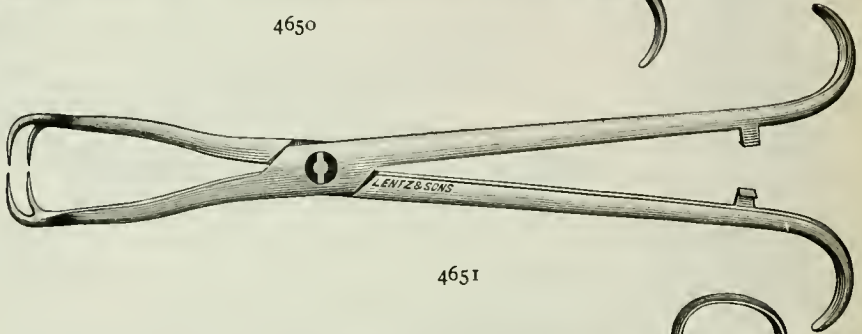
*All instruments illustrated are designated by a *.*

Gynecological Instruments.

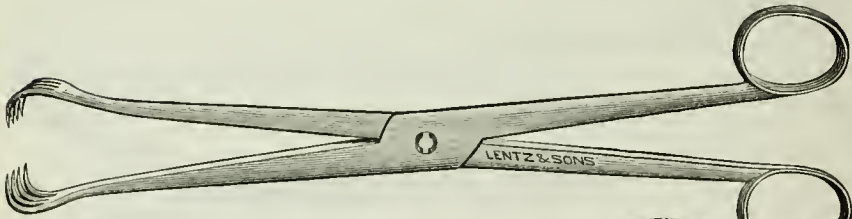
HYSTERECTOMY TRACTION AND TUMOR FORCEPS.



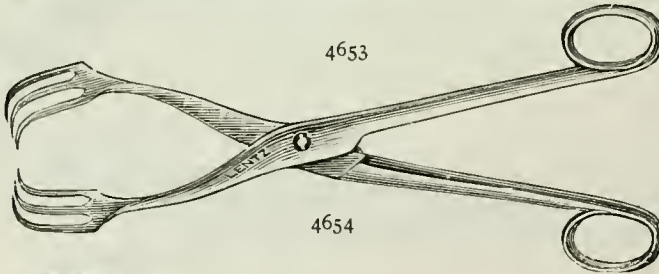
4650



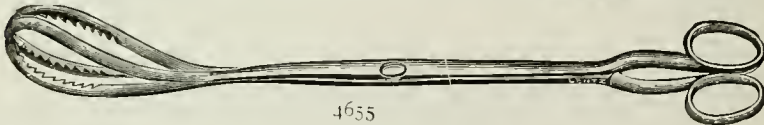
4651



4653



4654



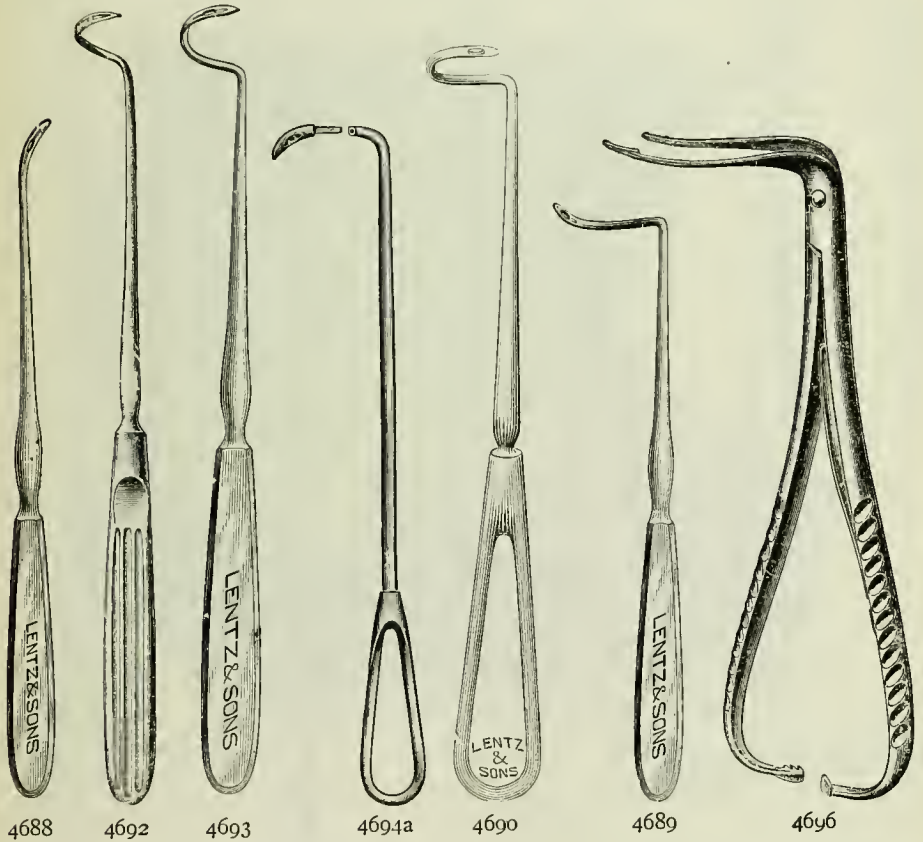
4655

4650.*	Hysterectomy Traction Forceps, Baer's, large	\$ 3 75
4651.*	" " " " extra large	4 75
4652.	" " " Byford's	2 75
4653.*	Tumor Forceps, Billroth's, large, eight prongs	3 50
4654.*	" " " large and heavy, six prongs	4 50
4655.*	" " Collins'	5 00
4656.	" " Wilcox's	4 00
4657.	" " Pean's	3 00
4658.	" " Byrnes'	2 50

All instruments illustrated are designated by a *.

Gynecological Instruments.

PEDICLE NEEDLES. LIGATURE CARRIERS.



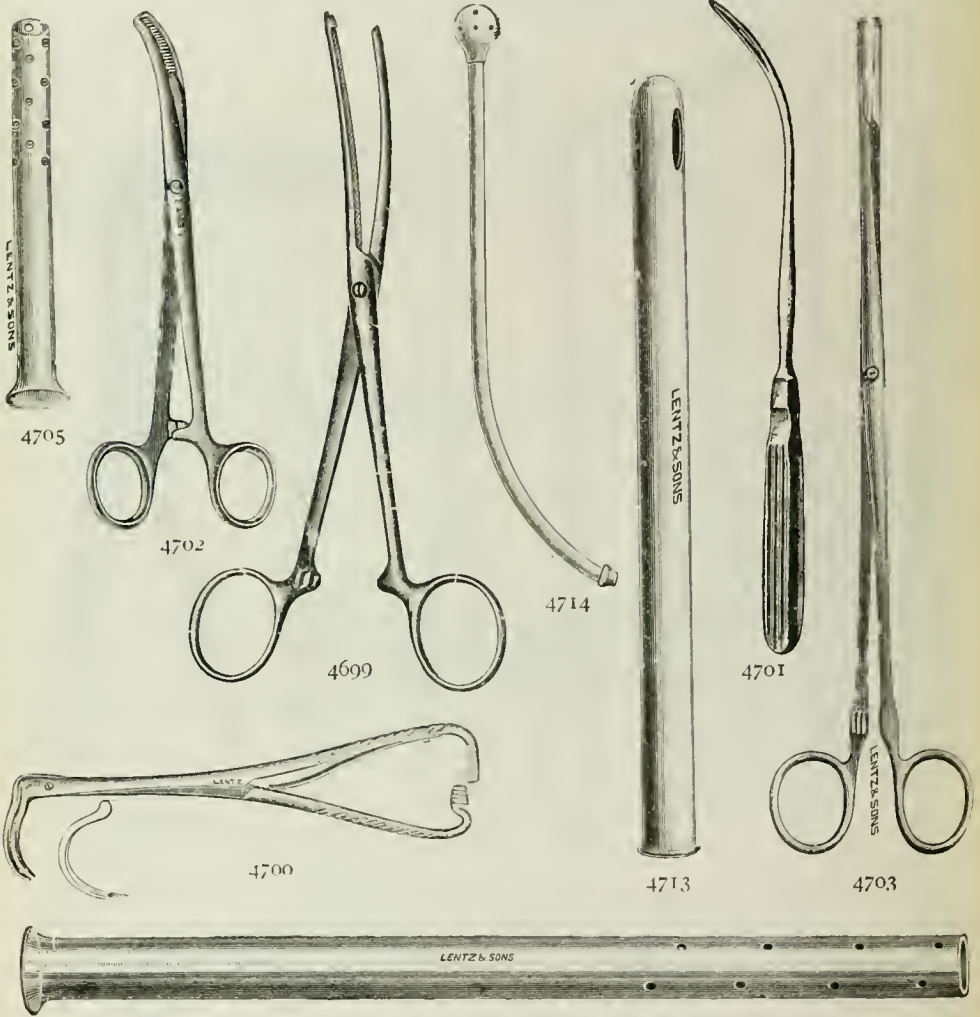
4688.*	Pedicle Needle,	slight or full curved	each	\$1 25
4689.*	"	" right angle, curved to right or left	"	1 75
4690.*	"	" " " " " " " "	"	1 75
4691.	"	Price's	"	1 25
4692.*	"	Deschamps', curved to right or left, light	each	1 25
4693.*	"	Kelly's, spiral curve to right or left	"	1 75
4694.	"	Hirst's, curved to right or left	"	1 75
4694a.*	"	Jack's	"	2 75
4695.	Ligature Carrier, Cleveland's,	with ring handle	"	2 75
4696.*	"	" improved	"	3 25

*All instruments illustrated are designated by a *.*

"Our own well-equipped factory is at your command for the production of any special instrument which you desire made. Our mechanics are experts in their various specialties. Our charges are as moderate as consistent with first-class work."

Gynecological Instruments.

LIGATURE CARRIERS, FLUSHING TUBES, DRAINAGE TUBES, ETC.



4704

4699.*	Ligature Carrier, Barrett's, curved on flat	\$1 75
4700.*	" " Reynolds', curved to side	6 50
4701.*	" " Billroth's, curved on flat	1 50
4702.*	Fibroid Hemostatic Forceps, Mikulicz's, curved, 7 $\frac{1}{4}$ inch, light,	\$2 00;
	heavy	2 50
4703.*	Drainage Tube Forceps, Kelly's, for holding cotton	2 50
4704.*	Drainage Tube, Thomas', glass, straight or curved, three sizes, 5, 6 and 7 inches long; doz., \$2 25	each 25
4705.*	" " Price's, glass, 5, 6 and 7 inches long; doz., \$2 25;	" 25
4711.	Abdominal Flushing Tube, Price's, hard rubber, \$1 50	glass 50
4713.*	" " " Baldy's, metal	1 25
4714.*	" " " Kelly's	1 75
4715.	" " " Clark's, jointed	2 25
	Drainage Tubing, pure gum; see page 13.	

All instruments illustrated are designated by a *.

Gynecological Instruments.

THERMO-CAUTERIES.



4717

4717.* Thermo-Cautery, Ermold's latest improved; set consisting of one flat knife-shaped platinum point, one needle-shaped platinum point, reservoir handle with revolving dial stop-cock, and gasoline reservoir; all mounted on a nickel-plated metal plate; with double bulb, complete, in morocco case \$22 50

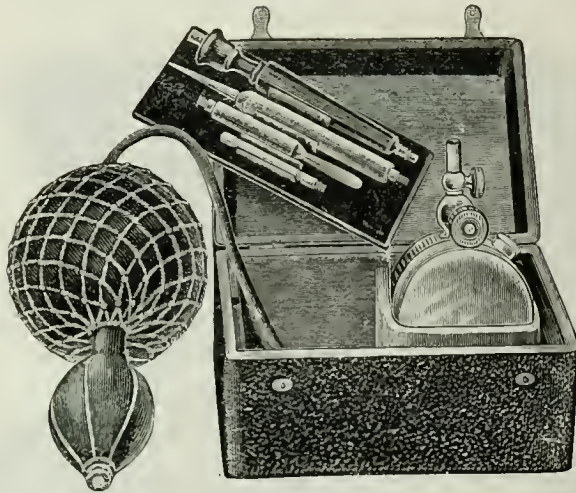
The Ermold thermo-cautery comprises the latest improvements in cautery construction, the principal feature being a combined cautery point and Bunsen burner, the flame of which surrounds the platinum point entirely. The gas, which operates the burner as well as the point, is under perfect control by means of the dial stop-cock, which is plainly marked with directions. In this manner we dispense with the old method of heating the point by alcohol lamp or other separate device. The improved instrument is more simple to operate than any other style of thermo-cautery.

Every part of the outfit is carefully tested before leaving the factory. Full directions accompany each instrument.

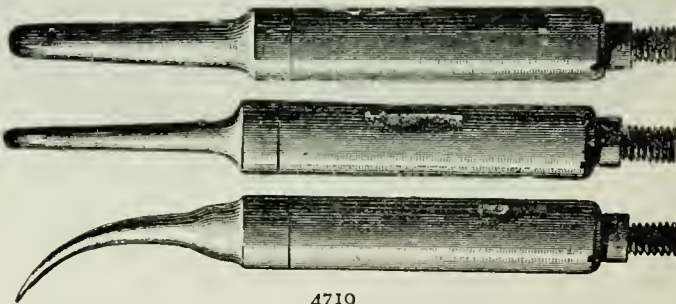
*All instruments illustrated are designated by a *.*

Gynecological Instruments.

THERMO-CAUTERIES.



4718



4719

- 4718.* Thermo-Cautery, Paquelin's; set of flat and round platinum points Nos. 1 and 2, metal reservoir, and lighter, with double bulbs; complete, in neat morocco case \$21 00

This cautery permits of the generation of permanent and controllable heat, with but slight loss through radiation. It is exceptionally well finished, and the various points being interchangeable, is at all times ready for any class of operation. Every instrument is carefully tested before leaving the factory, and if the accompanying printed instructions be carefully followed, no difficulty should be experienced in getting perfect results.

- 4719.* Thermo-Cautery Point, No. 1, knife-shaped, flat 7 75
 No. 2, conical-shaped, round 7 75
 No. 3, knife-shaped, curved or flat 8 75
 Other shapes can be supplied.

4720. " " Bulbs, large, with silk netting, best quality 1 75

Notice:—The advance or decline in cost of platinum necessitates changes of prices accordingly; we will always give our patrons the lowest ruling prices.

*All instruments illustrated are designated by a *.*

Gynecological Instruments.

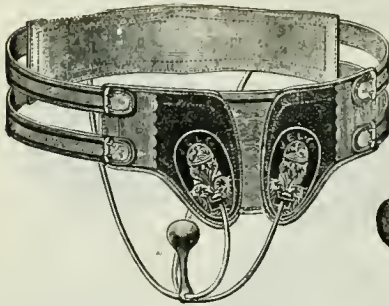
PROLAPSUS PESSARIES.



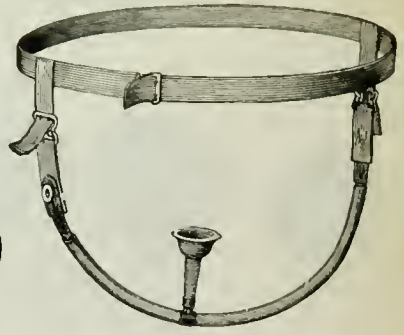
4730.*	Pessary, Inflated Ring, soft rubber	per dozen, \$4 00; each \$0	45
4731.*	“ Inflatable “ “ with stem	“	60
4732.*	“ “ pear-shaped, soft rubber, with stem	“	60
4733.*	“ Hard Rubber Ring	“	20
4734.	“ Copper Wire “ soft rubber covered, flexible, doz. \$4 00; “	“	45
4735.*	“ Spiral “ “ “ “ “ Peaslee’s, “	3 75; “	40
4736.*	“ “ “ “ “ “ very thick “	4 75; “	50
4737.	“ Pure Gum Ring, solid, very thick, best quality “	6 00; “	60
4738.	“ Hollow Hard Rubber Ring, German, very thick “	4 75; “	50
4739.*	“ Hollow Hard Rubber Concave	2 50; “	30
4740.*	“ Cutter’s Ring, hard rubber, with belt		I 50
4741.*	“ “ Cup “ “ “		I 50
4742.*	“ Thomas’-Cutter’s Cup, “ “		I 75
4743.*	“ McIntosh’s Cup, with abdominal supporter, fine pebble leather .	2 50	“
4744.	“ “ Ring, “ “ “	“	2 50
4745.*	“ “ “ only. regular sizes, 75c; extra large	“	I 75
4746.*	“ “ Cup “ regular sizes, 60c; extra large, \$1 50 to	“	2 00
4747.	“ “ Globe, with stem only, 4 sizes, 45, 50, 55, 60 mm. .	“	2 50

When Ordering, Give Diameter of Ring or Cup Desired.

All instruments illustrated are designated by a *.



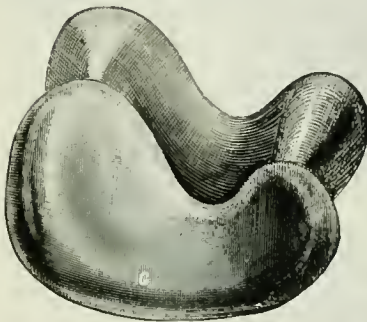
4748



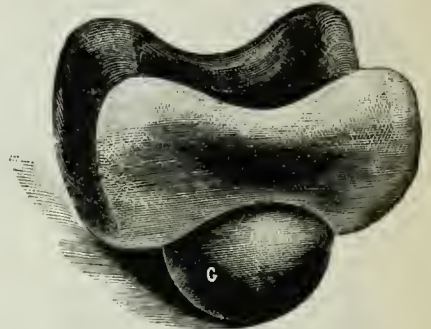
4754



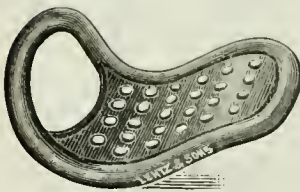
4753



4756-4757



4758



4749



4762



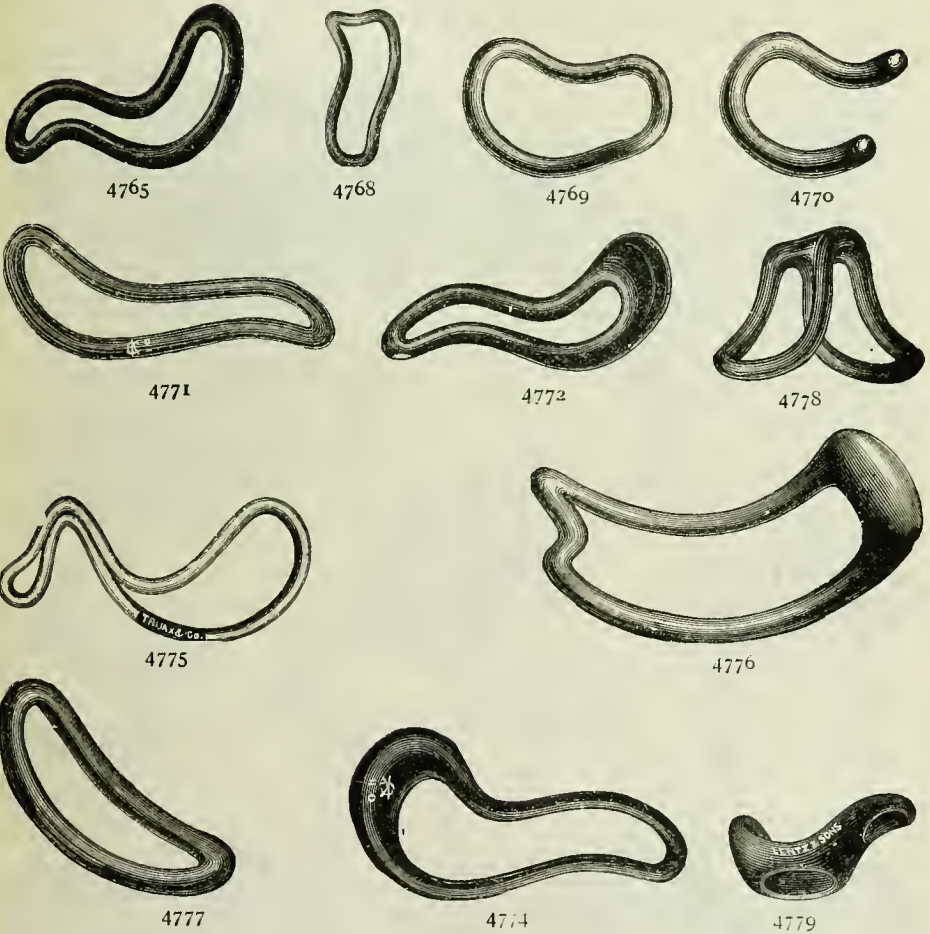
4760

4748.*	Pessary, McIntosh's, Globe, four sizes, with Abdominal Supporter . . .	\$4 50
4749.*	" Conkey's, hard rubber, for complete prolapsus, four sizes, each	1 75
4752.	" Goddard's Ring, with stem, all metal, silver plated, with belt	3 00
4753.*	" Zwank's, hard rubber, with metal screw stem	1 75
4754.*	" Wadsworth's, soft rubber Cup, with belt	5 00
4755.	" " " " only	2 50
4756.*	" Hofmann's Anatomical Pelvic, soft rubber, latest	1 50
4757.*	" " " " hard rubber, latest	2 50
4758.*	" " " " soft rubber, with sac, small size only	1 50
4760.*	" Globe, hard rubber, four sizes . plain grade, \$1 25; best grade	1 75
4761.	" glass, up to 2¼ inch, \$0 60; 2½ and 2¾ inch . . each	75
4762.*	" Menge's, hollow hard rubber ring, with detachable stem, seven sizes, 50, 55 60, 65, 70 75, 80, 85, 90 millimeter diam.	
	\$2 25 \$2 75 \$3 00	

When ordering, give diameter of size desired.

Gynecological Instruments.

RETROVERSION PESSARIES.



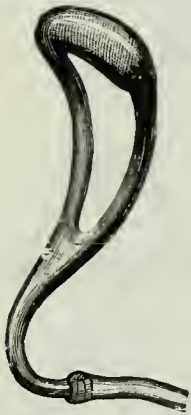
4765.*	Pessary, Smith's, Hard Rubber, 7 sizes, $2\frac{3}{8}$ to $3\frac{7}{8}$ in. long	doz., \$1.75; each \$0	25
4766.	" " Patent Elastic, soft rubber covered, 6 sizes		75
4767.	" Hodge's " " " " " " " " 6 "		75
4768.*	" " Hard Rubber, 5 sizes, $2\frac{3}{4}$ to $3\frac{1}{2}$ in. long		25
4769.*	" " " " " " " " 4 " " "		25
4770.*	" " Horseshoe, Hard Rubber, 3 sizes		40
4771.*	" " Emmet-Smith's, Hard Rubber, 5 sizes		40
4772.*	" " Thomas-Smith's, 5 sizes, $2\frac{7}{8}$ to $3\frac{3}{4}$ in. long		50
4773.	" " " " Patent Elastic, soft rubber covered, 5 sizes		1 00
4774.*	" " " " modified by Mundé, 5 sizes, $2\frac{7}{8}$ to $3\frac{3}{4}$ in. long		1 00
4775.*	" " Thomas' "		75
4776.*	" " Noeggerath's, modified by Thomas		75
4777.*	" " Hewitt's Hard Rubber Cradle		35
4778.*	" " Graily-Hewitt's, modified by Thomas		1 00
4779.*	" " Fowler's, Hard Rubber		1 50
4780.	" " Buttle's " " "		40

When ordering, give diameter or length desired.

All instruments illustrated are designated by a *

Gynecological Instruments.

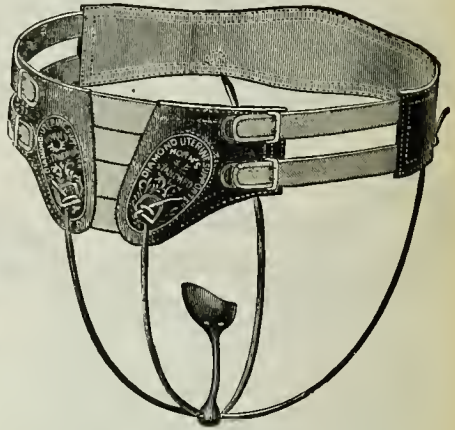
RETROVERSION AND CYSTOCELE PESSARIES.



4785



4786



4787



4790



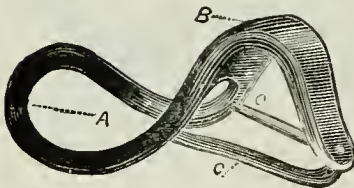
4791



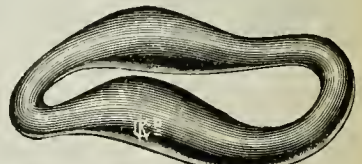
4792



4793



4794



4795

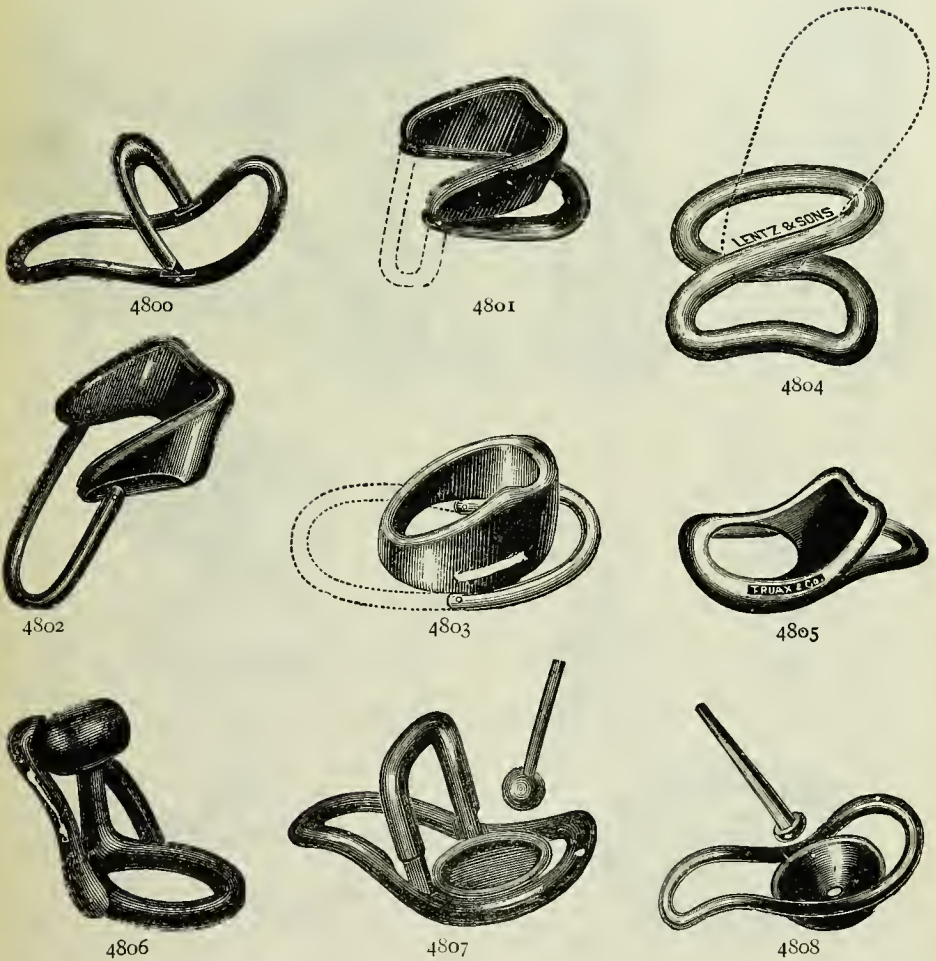
4785.*	Pessary, Thomas'-Cutter's, with belt	\$1 50
4786.*	" " " " cervical rest and belt	2 25
4787.*	" McIntosh's, Cup, with abdominal supporter, of fine pebble leather	2 50
4789.	" " Ring, " " " " " " " "	2 50
4790.*	" " " only, regular sizes, 75c.; extra large	1 75
4791.*	" " Cup " " regular sizes, 60c.; extra large, \$1 50 to	2 00
4792.*	" Gehrung's modified Smith's	40
4793.*	" Schultze's, sleigh shaped	75
4794.*	" Skene's Cystocele, hard rubber, original pattern	1 35
4795.*	" " for prolapsus of the bladder, hard rubber, latest pattern	1 25

When Ordering, Give Diameter or Length Desired.

All instruments illustrated are designated by a *.

Gynecological Instruments.

ANTEVERSION AND ANTEFLEXION PESSARIES.



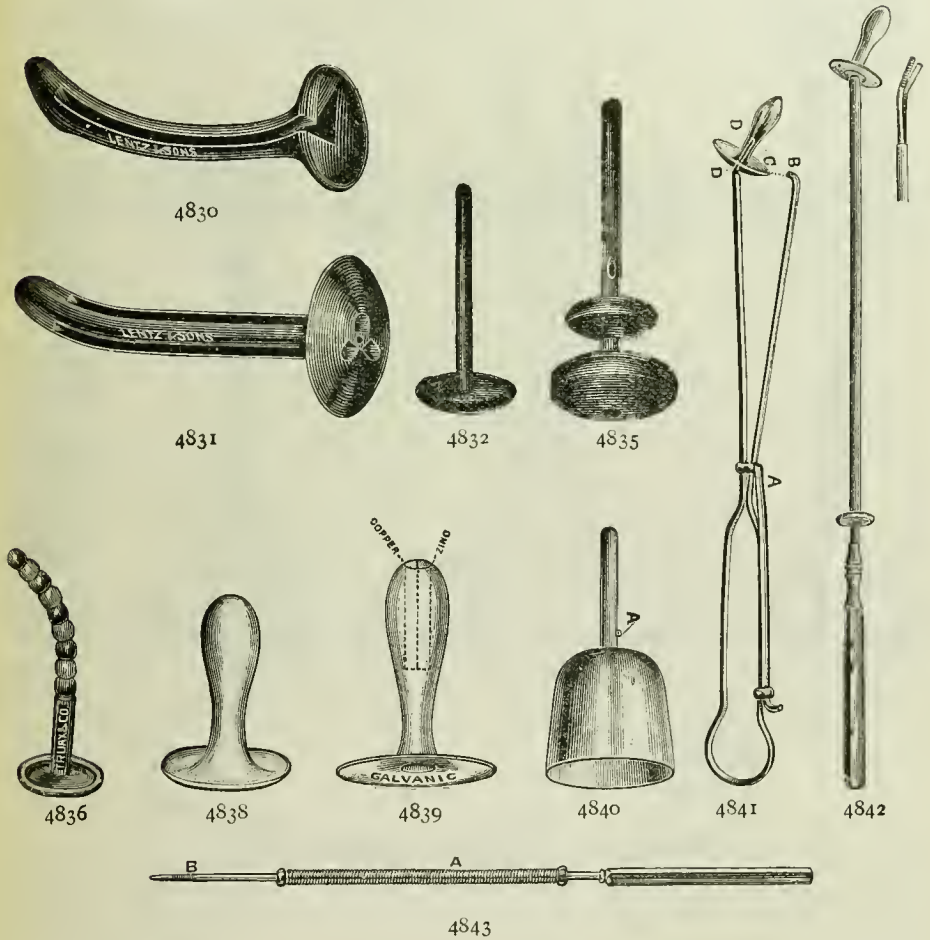
4800.*	Anteversion Pessary, Thomas', first pattern	\$1 00
4801.*	“ “ “ third “	1 00
4802.*	“ “ “ sunken lever	1 25
4803.*	“ “ Mundé's modified Thomas', sunken lever	1 25
4804.*	“ “ Gehrung's, 8 sizes, 20 to 90 millimeters	35
4805.*	“ “ Thomas', fifth pattern	1 75
4806.*	Anteflexion “ “ sixth “	1 75
4907.*	“ “ “ ninth “ with intra-uterine stem .	2 00
4808.*	Lateroflexion “ “ with intra-uterine stem.	1 75

When Ordering, Give Diameter or Length Desired.

All instruments illustrated are designated by a *

Gynecological Instruments.

INTRA-UTERINE STEM PESSARIES. CERVICAL DRAINAGE TUBES.



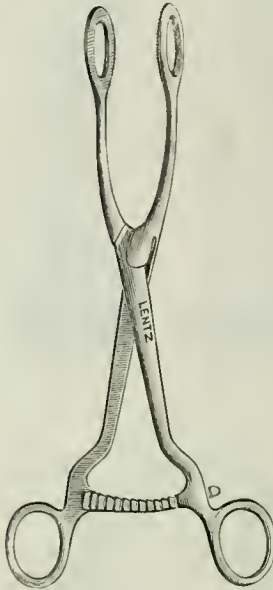
4830.*	Drainage Tube, Cervical, Wylie's, hard rubber, six sizes	doz., \$4 50; each	\$0 50
4831.*	" " " Boldt's " " "	" " "	65
4832.*	Stem Pessary, plain, hard rubber		25
4833.	" " " " Jackson's	60c.; soft rubber	75
4834.	" " glass	solid, 20c.; hollow	25
4835.*	" " hard rubber, Peaslee's		90
4836.*	" " galvanic, Thomas', zinc and copper beads		90
4837.	" " " Greenhalgh's, zinc and copper		1 25
4838.*	" " aluminum, Cole's	doz., \$3 00; each	40
4839.*	" " " galvanic		1 00
4840.*	Introducer for Aluminum Stem Pessary, applied by finger		45
4841.*	" " " " Robertson's		50
4842.*	" " " " with sliding canula		50
4843.*	" " " " " spiral slide		40

All instruments illustrated are designated by a *

Nephrectomy Instruments.



4880



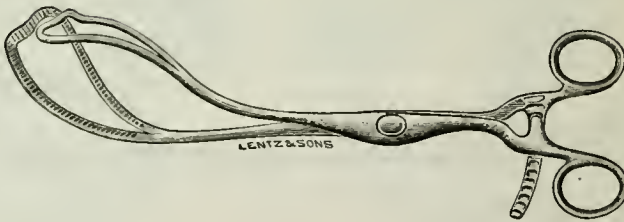
4881



4885



4889



4883

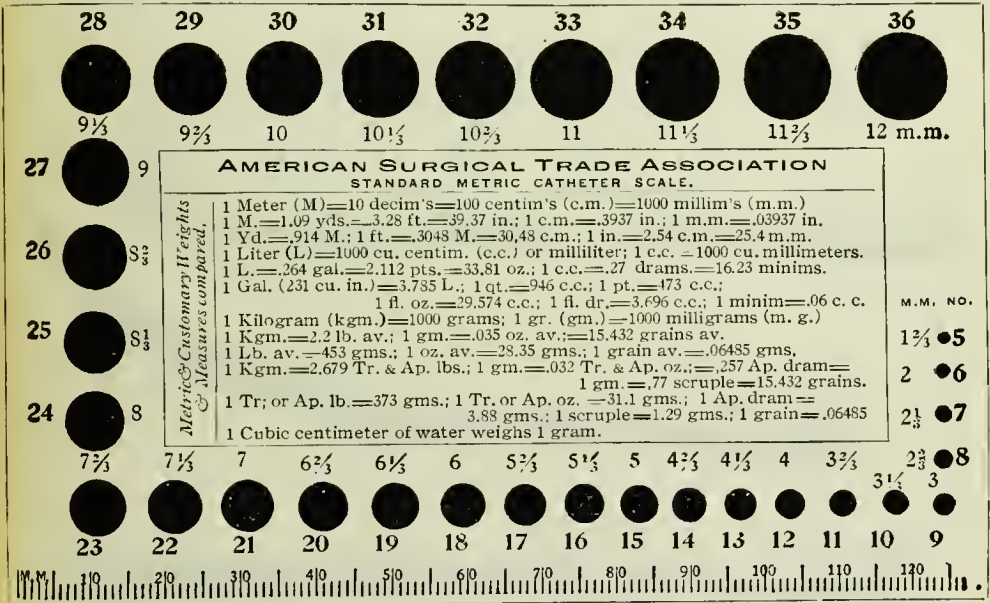
4880.*	Kidney Elevating Forceps,	Lower's,	with screw lock	.....	\$4 00
4881.*	"	"	Ashton's, " Collin's "	.....	6 00
4883.*	"	"	Sherk's " button "	.....	7 50
4885.*	" Clamp	"	Lower's " screw "	.....	4 50
4886.	"	"	Stille's, curved, serrated blades	.....	5 00
4887.	"	"	Guyon's, " " with spikes	.....	3 50
4889.*	" Elevator,	Tuffier's,	curved on flat	.....	1 50
4891.	" Spatula,	"	"	.....	75
4892.	"	Leguen's,	with handle	.....	2 25
4895.	" Retractor,	Morris',	double end, blades 3 x 4 ctm.	.....	4 25
4896.	"	"	" " " 4½ x 5 "	.....	4 25
4897.	"	"	" " " 5½ x 6½ "	.....	4 50
4899.	Bistoury, straight, blunt,	Tuffier's	"	.....	2 00

All instruments illustrated are designated by a *.

SECTION XI.

Male Urethral Instruments.

SCALE OR GAUGE FOR GRADING THE SIZES OF BOUGIES AND CATHETERS.



The American Surgical Trade Association, an association of manufacturers and dealers of surgical instruments, formed for the promotion of improved trade conditions and for the standardizing, wherever practicable, of the various instruments, have adopted the scale as illustrated above.

It is the French or Metric Scale, the outer numbers indicating the number of millimeters of circumference. The inner numbers are added merely for further guidance and indicate the number of millimeters of diameter.

We would respectfully request that when ordering such instruments as catheters, bougies, etc., only this French scale be used. We accomplish thereby a uniformity in the sizes of the instruments which will be appreciated by the physician, whereas it will also avoid the annoyance of misunderstandings in filling orders.

All catheters, bougies and other instruments of this character will be stamped only with their respective French scale numbers.

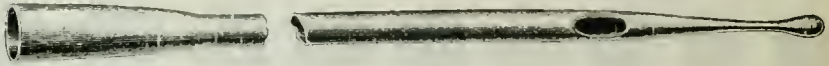
Card Scale Free on Request.

*All articles illustrated are designated by a *.*

Male Urethral Instruments.
SOLID END ELASTIC WEB CATHETERS.



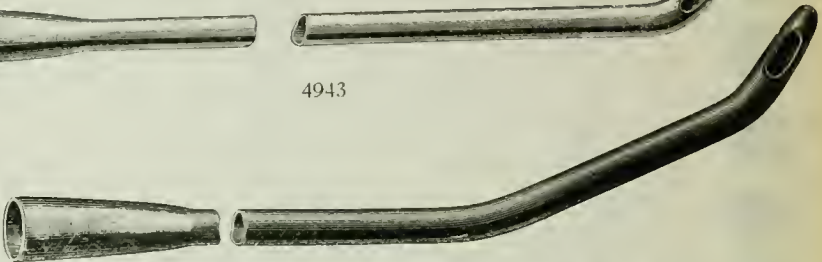
4940



4941



4943



4944



4946

Sterilizable Elastic Web Catheters; Best French Make; Woven Eyes and Funnel End.

		Dozen	Each
4940.*	Catheter, gum elastic, linen web, cylindrical point	\$5 00	\$0 5c
4941.*	" " " " " olive point	7 50	75
4942.	" " " " " conical point	7 50	75
4943.*	" " " " " Mercier's, elbow point	7 50	75
4944.*	" " " " " double elbow point	9 00	90
4946.*	" " " silk web, Bartrina's, flat, oval, elbow point		1 50
4947.	" " " " " white coated, cylindrical point		1 25
4948.	" " " " " olive point		1 50
4949.	" " " " " Mercier's elbow point		1 50

The presence of blood or mucus can readily be seen on the white catheters.

These French Catheters are the highest grade made in the world; the gum coating is very durable, highly polished and extremely smooth finish; the inside of the catheters is also coated by the same material, preventing absorption of fluids by the texture.

In sterilizing by means of boiling water the elastic catheters and bougies should be kept immersed from three to five minutes, which will actually suffice for carrying away lubricants and will prove absolutely germicidal. They should be enveloped in gauze or a towel to prevent direct contact with the bottom of the sterilizer, and should not be coiled up.

		Dozen	Each
4954.	Catheter, gum elastic, cotton web, cylindrical	\$3 50	\$0 40
4955.	" " " " " olive point	5 00	50
4957.	" " " " " Mercier's, elbow point	5 00	50
4066.	" English, cotton web, cylindrical, Nos. 5-12, English scale (approx. 12-22, French scale)	90	10

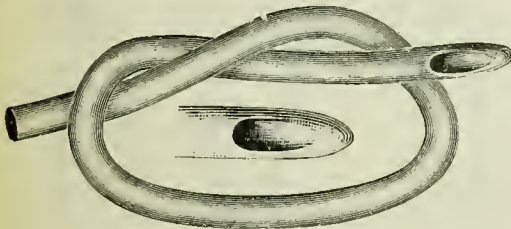
Always order by French scale, see page 399.

Male Urethral Instruments.

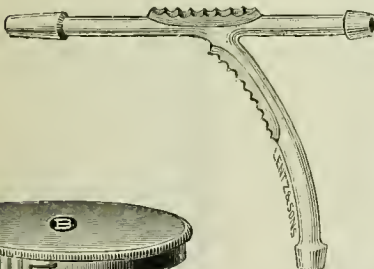
CATHETERS.



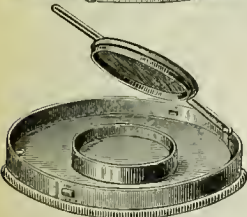
4971a



4970-4971



4977



4979



4975



4976



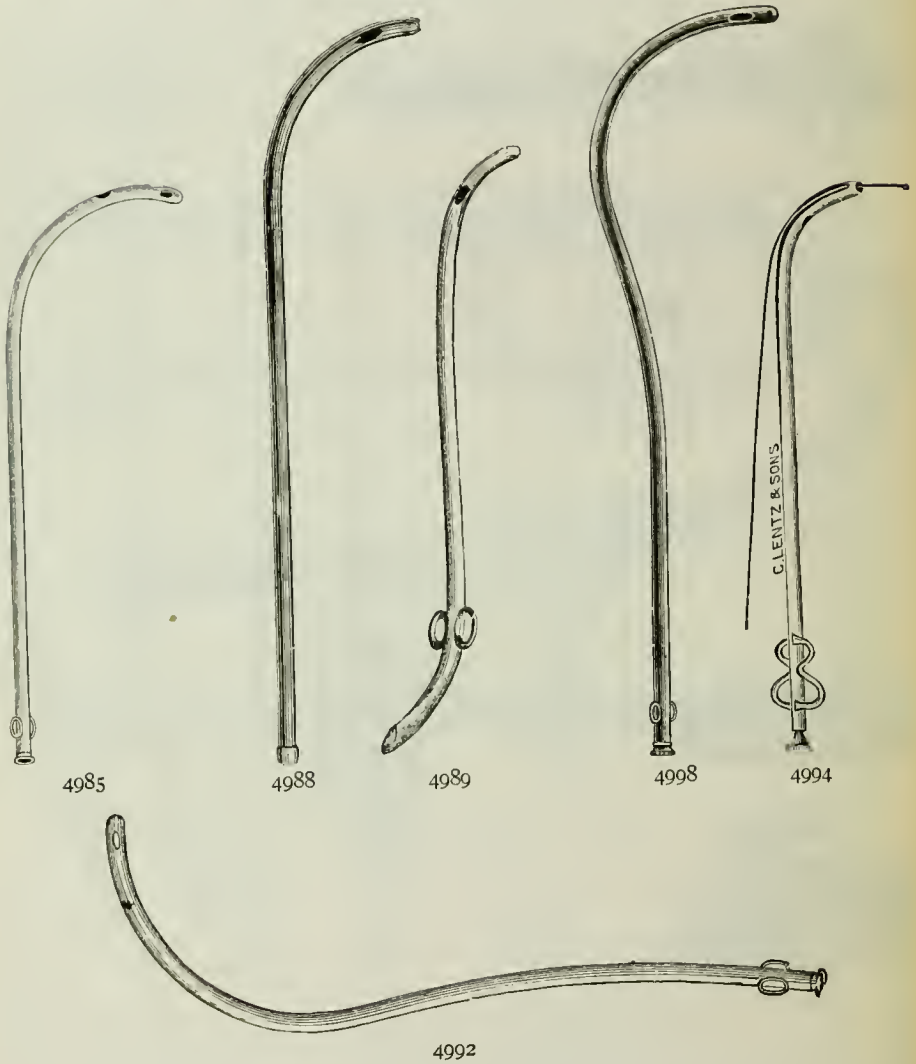
4973

4970.*	Catheter, soft rubber, with solid end, sizes 9 to 22	doz., \$2 50; each	\$0 30
4971.*	" " " " " " " " " " " "	23 " 30 " 3 50;	40
4971a.*	" " " " Malcot's, self-retaining		80
4972.	" " " " Mercier's, with conical point and genuine velvet eye		1 00
4973.*	" " " " Pezzer's, self-retaining, mushroom top		80
4974.*	" " " " " " raised top and two openings		80
4975.*	" Holder, made of flat bands of soft rubber		60
4976.*	" Guide, Otis' spiral, for introducing soft rubber Catheters		75
4977.*	" Tube, double, with shut-off, for soft rubber Catheters, for washing out the bladder		60
4978.	" " " " Pattee's " soft rubber Catheters, for washing out the bladder		40
4979.*	" Case, brass, nickel-plated, for holding soft rubber catheters, with small compartment in center and tight-fitting lid for vaseline or other lubricator		85
4980.	" " " " nickel-plated, without compartment		65

Always order by French scale, see page 399.

Male Urethral Instruments.

METALLIC CATHETERS.



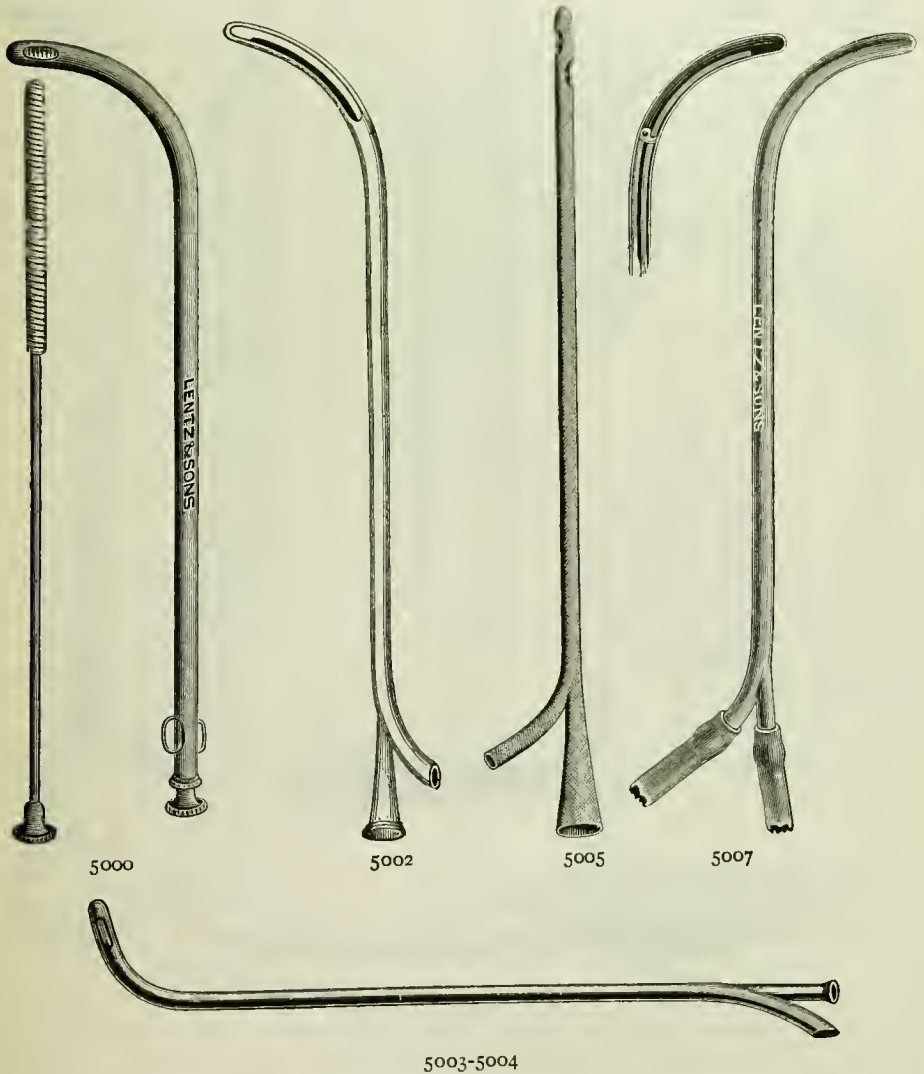
4985.*	Catheter, German silver, triple silver-plated	\$0 75
4986.	“ sterling “ (hard) up to 21 Fr. Sc., \$1 75; larger sizes, each	2 25
4988.*	“ brass, nickel-plated, plain grade	40
4989.*	“ double curved, Syme’s silver-plated, 90c.; silver, \$2 00 to	2 50
4990.	“ spiral, metallic, ‘Gross’	1 00
4992.*	“ Prostatic silver-plated, 90c.; silver, \$2 00 to	3 00
4993.	“ “ Britannia metal, pliable	1 00
4994.*	“ tunnelled, Gouley’s, for filiform bougies, plated	1 00
4997.	“ “ prostatic, pliable, plated	1 25
4998.*	“ White’s, prostatic, large curve, silver-plated	90
4999.	“ “ “ silver, according to size \$2 25 10	3 25

Always order by French Scale, see page 399.

All instruments illustrated are designated by a *.

Male Urethral Instruments.

CATHETERS.

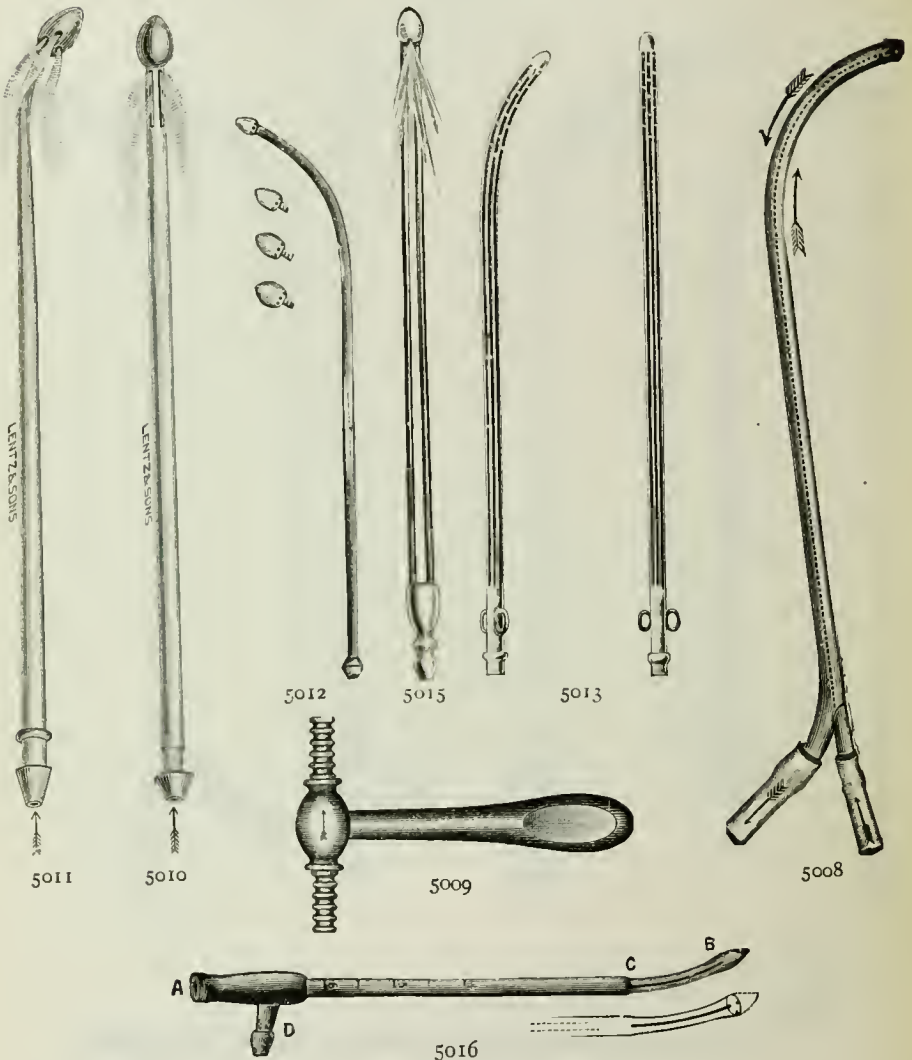


- 5000.* Catheter, for blood and mucus, Willard's with spiral obturator . . . plated \$2 50
- 5001. " " " " " Agnew's " 1 50
- 5002.* " double current, Nott's silver-plated, \$1 20; silver 3 75
- 5003.* " " " with oval eyes " 1 20; " 3 75
- 5004.* " " " brass, nickel-plated 75
- 5005.* " " " "Superior Lineu" web I 25
- 5006. " " " soft rubber, Marcy's I 25
- 5007.* Psychrophor, or double current cooling sound, Martin's improved, plated,
 sizes 15 to 24 Fr. scale, \$3 00; 25 to 28, \$3 40; 29 to 30 4 00

*All instruments illustrated are designated by a *.*

Male Urethral Instruments.

CATHETERS, RETROJECTING AND DOUBLE CURRENT.

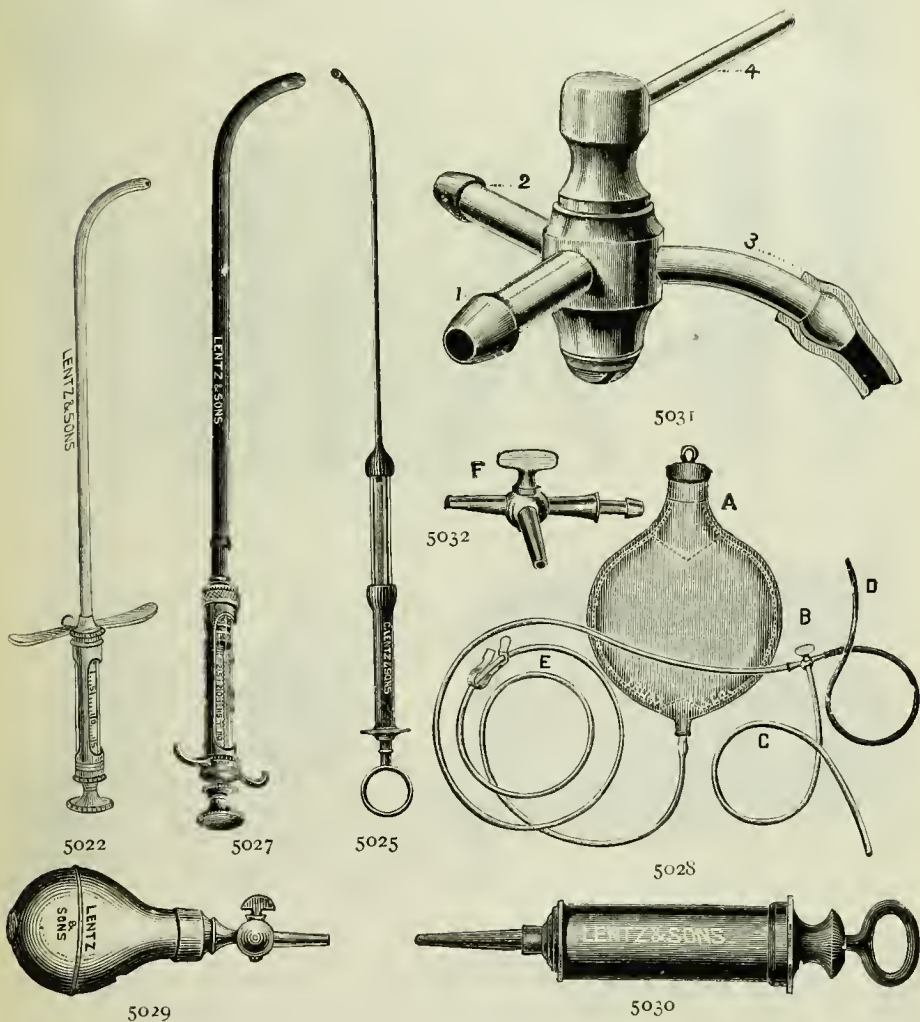


5008.*	Psychrophor. or double current cooling sound, Winternitz's, plated .	\$1 50
5009.*	" Wiener's, plated	1 25
5010.*	Catheter, Retrojecting, or back-flow tube, straight, plated	45
5011.*	" " " " " curved, conical, plated	55
5012.*	" " " " " Pratt's, with four bulbs	1 10
5013.*	" " " " " Anglin's, 10 in. long, straight, 75c.; curved,	1 10
5014.*	" " " " " with grooved stem	65
5015.*	" " " " " Johnson's, plated	75
5016.*	" " " " and irrigating, h. r., Waechter's, with 1/4 oz. hard rubber syringe	3 00
5017.	Irrigating Catheter, Straus', 13 sizes, 18 to 30, French	2 00
5018.	" Peterkin's, double current, with obturator	4 00

Especially valuable in the treatment of chronic cystitis.

Male Urethral Instruments.

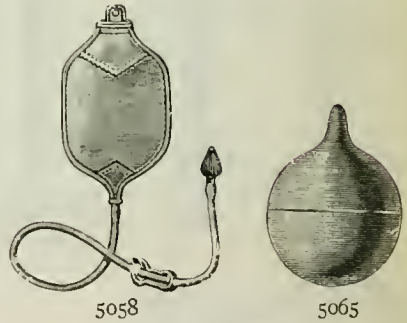
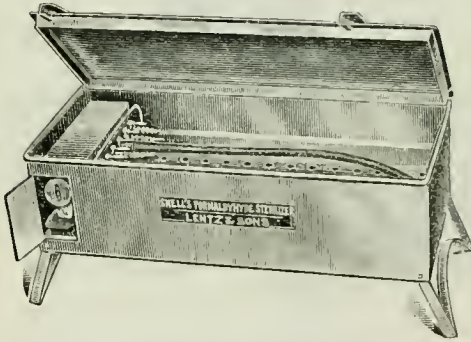
SYRINGES.



5022.*	Deep Urethral Syringe, Keyes'-Ultzman's, silver tube	\$2 25; in case	\$2 75
5023.	“ “ “ Ultzman's, silver tube	2 25; “	2 75
5024.	“ “ “ Woodward's modified Keyes', with probe pointed, pure silver pliable tube		3 75
5025.*	“ “ “ Bumstead's, with h. r. tube		1 50
5026.	“ “ “ Taylor-Bumstead's, with two h. r. tubes		2 25
5027.*	“ “ “ or Instillator, Martin's, with h. r. tube		1 50
5028.*	Syringe, Van Buren's, with stop-cock and soft rubber Catheter, for washing out the bladder		2 50
5029.*	“ “ “ with stop-cock, for hydrocele or for washing out the bladder		1 50
5030.*	“ Ultzman's, hard rubber with conical point for attaching Catheter, 2 ozs., \$1 50; 4 ozs., \$1 70; 5 ozs.		2 25
5031.*	Stop-cock, Poole's, two way, or Perfection Bladder Washer, can be used with any Fountain Syringe and Catheter		75
5032.*	“ Keyes', two way		85

*All instruments illustrated are designated by a *.*

Male Urethral Instruments.

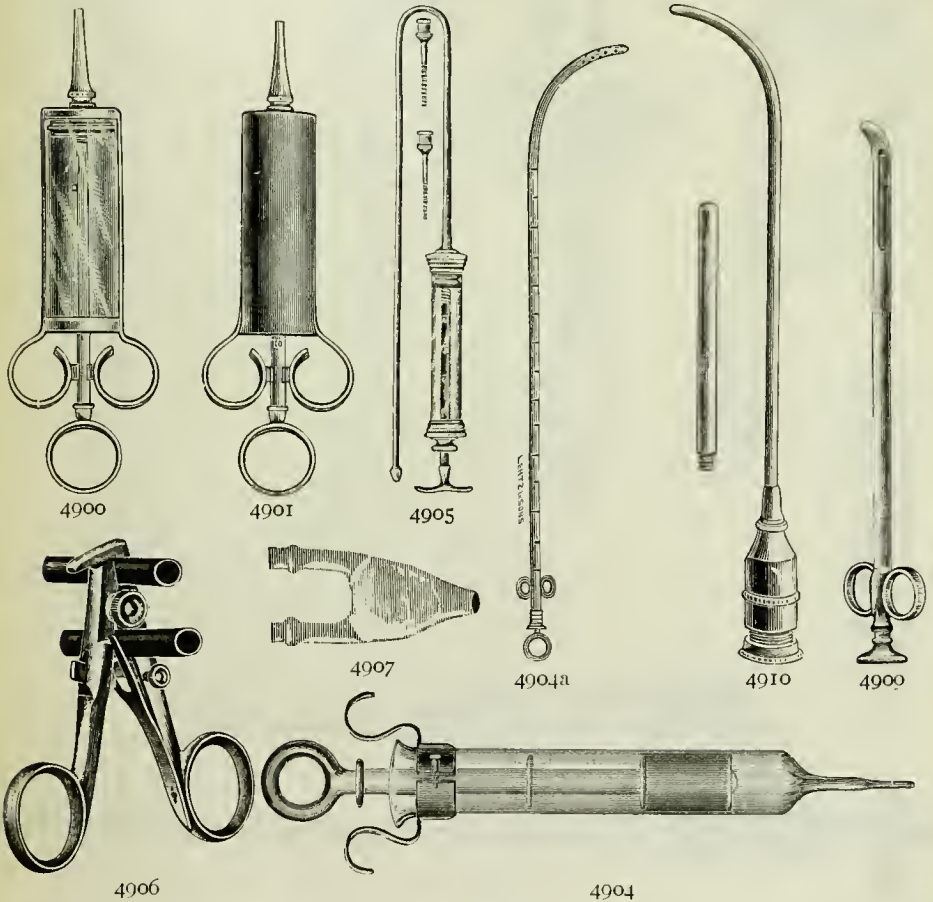


- 5055.* Irrigator, Berger's, for irrigation of the urethra by Janet's method; metal. \$1 25
 - 5056.* Prostatic Douche, Martin's, metal, plated I 25
 - 5057.* Irrigating Nozzle, double current, Kiefer's hard rubber, 65c.; metal 60
 - 5058.* " " Martin's, h. r., conical, with 1 qt. fountain syringe I 60
 - 5059. " " " 35
 - 5060. " " Daggett's, double current, hard rubber 75
 - 5061. Katharaphor, Zuelzer's, plated I 75
 - 5062.* " Wigmore's, plated I 75
 - 5063.* Urethral Syringe, hard rubber, straight point 35
 - 5064.* " " Sigismund's, hard rubber, conical point 35
 - 5065.* " " all soft rubber, tan color 40
 - 5066.* Formaldehyde Sterilizer or Disinfector, Snell's, for urethral and cystoscopic catheters. Made of heavy copper, nickel plated. Dimensions, 14 x 3 x 2½ inches 15 00
- Designed to sterilize from the inside by means of formaldehyde gas all forms of flexible catheters of any size. The catheters are attached to conical fittings connecting with the formaldehyde chamber, which is heated by an alcohol lamp. It will sterilize catheters in five minutes. It may also be used as a hot water or steam sterilizer for instruments.
- 5067. Disinfector, Ashcraft's, long glass jar with lid and metal clamp, perforated hard rubber disk to suspend various size catheters \$1 75

All instruments illustrated are designated by a *.

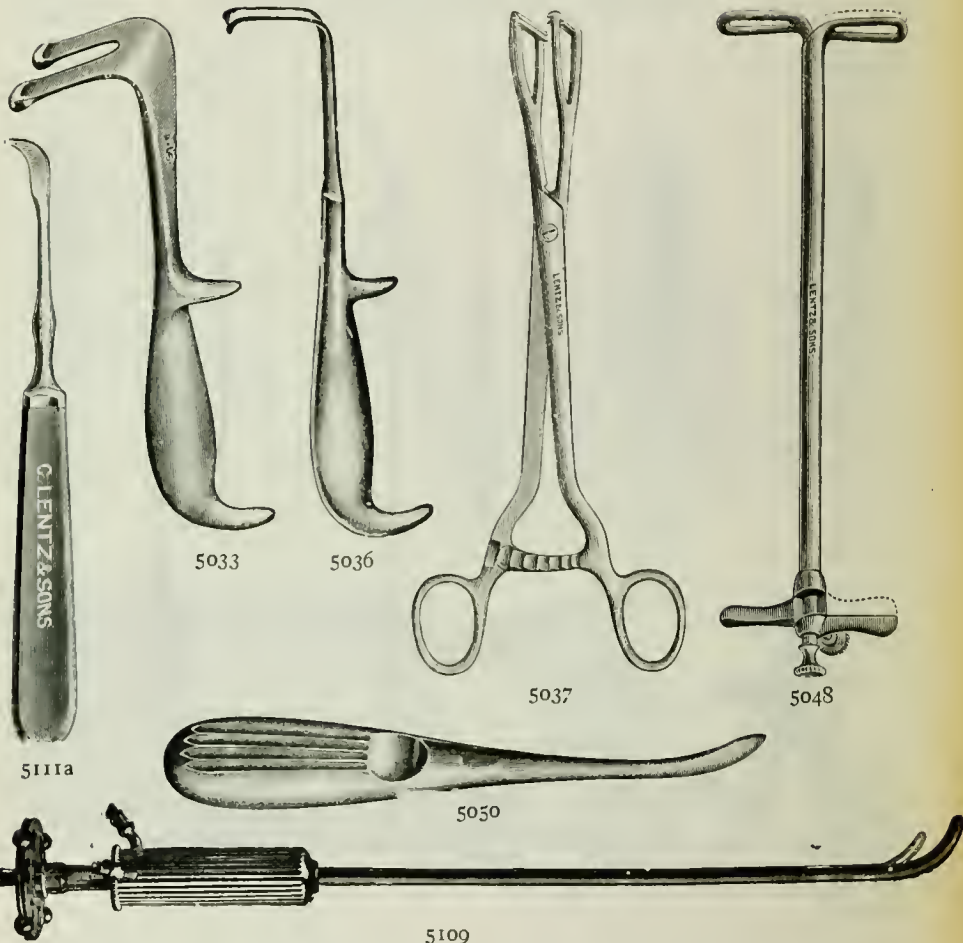
Male Urethral Instruments.

SYRINGES AND OINTMENT APPLICATORS.



- | | | |
|---------|---|--|
| 4900.* | Syringe, Janet's, modified by Frank, glass, three sizes; | |
| | | 60 c.c., \$4 50; 100 c.c., \$5 50; 150 c.c. \$6 00 |
| 4901.* | “ “Perfection,” all metal, with sterilizable packing, three sizes; | |
| | | 60 c.c., \$3 50; 100 c.c., \$4 00; 150 c.c. 4 50 |
| 4903. | “ BoltonBangs', hard rubber, \$1.00; with h. 1. tubes | 2 00 |
| 4903a. | “ Tube, silver, for Bolton Bangs' Syringe, Nos. 13 to 28, French scale, according to size, from \$2 75 to \$5 00 extra. | |
| 4904.* | “ Chetwood's, glass, 4 oz., with metal fixture | 2 50 |
| 4904a.* | “ Catheter, Dick's, silver | 3 75 |
| 4905.* | Drop Syringe, Guyon's, with elastic catheter à boule, in case | 3 75 |
| 4906.* | Alternating Cut-off, Chetwood's, used with irrigators | 2 75 |
| 4907.* | Irrigating Nozzle, Chetwood's, glass | 40 |
| 4908. | Ointment Applicator, Young's, original | 4 25 |
| 4909.* | “ “ improved | 2 25 |
| 4910.* | “ “ Robbin's, with two tubes; the short, straight tube for rectal applications | 2 50 |
| 5043. | “ “ Van Buren's, cupped sound | 75 |
| 5044. | Porte Caustic, Lallemand's, silver | 4 00 |

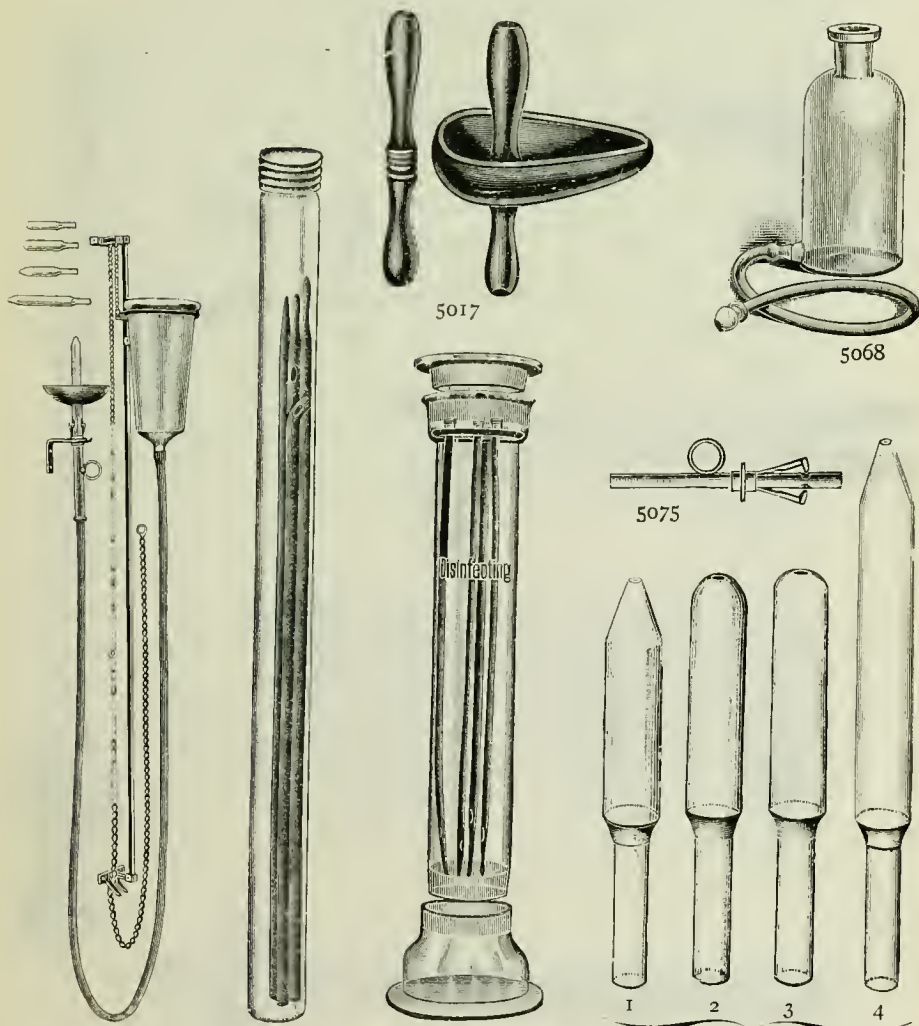
**Male Urethral Instruments
FOR PERINEAL PROSTATECTOMY.**



5033.*	Prostatectomy Retractor, Young's, bifid	\$4 00
5034.	" " " slightly bifid	3 50
5035.	" " " large, blade 1 3/4 inches wide	3 25
5036.*	" " " small, " 3/4 inch "	2 75
5037.*	Prostatic Lobe Forceps, " large or small	each 5 00
5046.	" Masseur, Swinburn's, metal, with set-screw handle	3 75
5047.	" " Dufaux's, soft rubber, with hard rubber handle	6 50
5048.*	" Tractor, Young's	6 50
5049.	" " Parker-Syme's, rubber, with metal stylet	2 00
5050.*	" Enucleator, Young's	2 00
5051.	" Depressor, Guiteras'	1 50
5052.	Staff for perineal prostatectomy, Ferguson's, sizes 26 and 28	each 1 50
5053.	Prostatic Forceps, Ferguson's, cutting edge	4 50
5054.	" " Guiteras', serrated	4 50
5109.*	" Incisor (Bottini-Freudenberg), with threaded regulator for controlling the platinum iridium blade, and with water cooling attachment. The instrument using approximately 45 to 50 amperes of current. Fitted with conducting cord and slip contact in case	40 00
5111.	" " Dr. Hugh H. Young's (Baltimore) modification of Bottini-Freudenberg's, with 4 blades, cable and case	75 00
5111a.*	Prostatectomy Knife, Mayo-Allen's	1 50

Male Urethral Instruments.

IRRIGATORS.

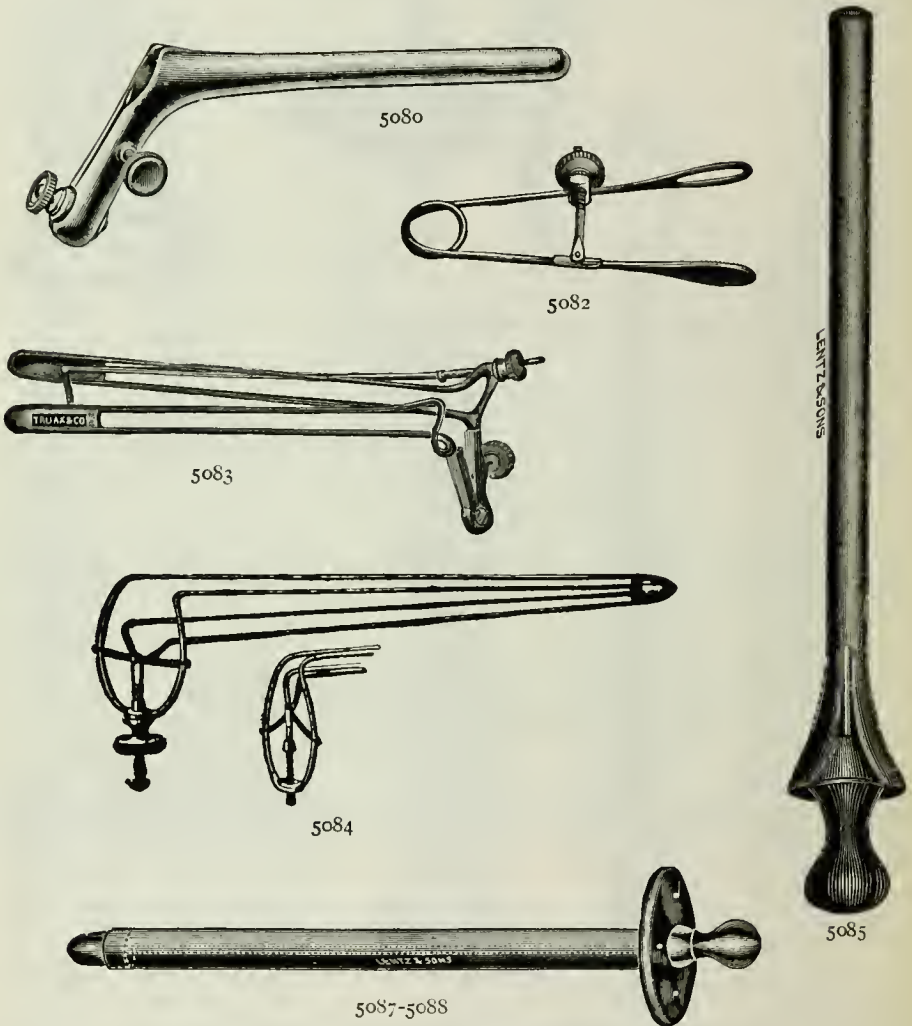


5070 5019 5020 5073

5017.*	Irrigating Nozzle, Lydston's, hard rubber	\$1 00
5018.	“ “ Johns Hopkins Hospital, hard rubber, conical . . .	40
5018a.	“ “ Ashcraft's, glass doz., \$1 00; each	10
5019.*	Catheter Tube, glass	50
5020.*	Jar, “	4 00
5068.*	Irrigator, Horwitz's, 16-oz., graduated, with tubing and nozzle	1 50
5070.*	“ Valentine's, for intravesical hydrostatic irrigation for the successful treatment of gonorrhœa, etc. Complete apparatus with sliding bracket, by which the percolator can be moved upward and downward over a nickel-plated steel rail on two metal wheels, and guided by a flat metal safety chain over a loose metal pulley; with four glass nozzles and one thousand tablets of permanganate of potash.	5 50
5073.*	Nozzles, extra, Nos. 1 to 4 per doz., \$1 00; each	10
5074.	Shield, “ glass or metal	65
5075.*	Stop-cock, “	75
5076.	Tubing, “ double funnel end, pure gum	1 50

Male Urethral Instruments.

SPECULA AND ENDOSCOPES.



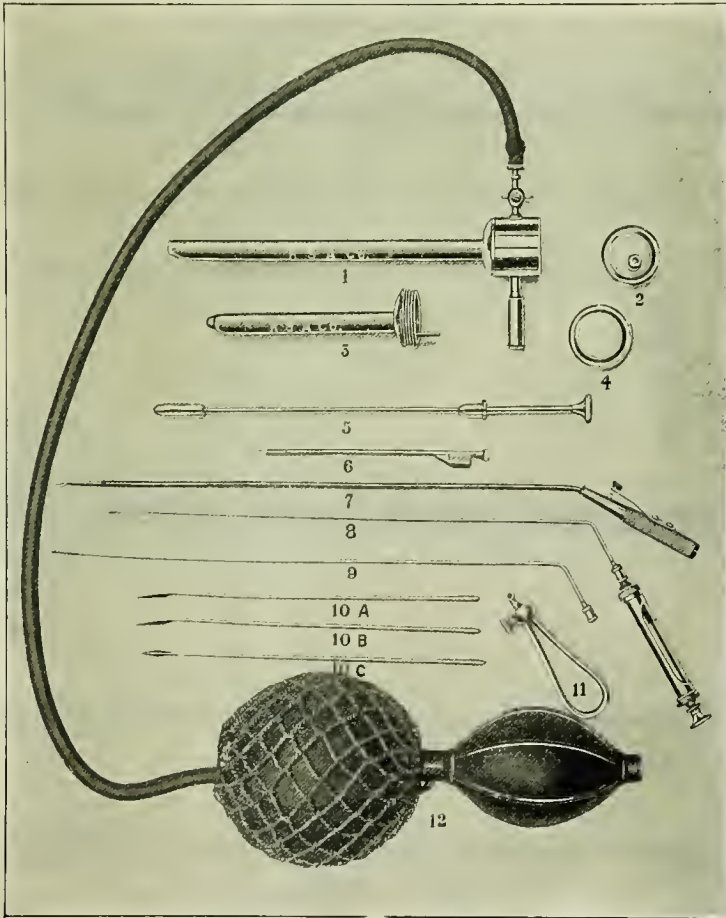
5080.*	Speculum, Caro's, improved, smooth, wrought metal	.....	\$ 0 75
5081.	“ “ long, aluminum . . . . .	.....	1 15
5082.*	“ Otis' (Meatus Dilator), plated . . . . .	.....	1 15
5083.*	“ Brown's, plated . . . . .	.....	2 25
5084.*	“ Smith's, plated . . . . .	.....	1 60
5085.*	Endoscope, Otis', hard rubber various sizes . . . . .	.....	each 75
5086.	“ “ metal, plated “ “ . . . . .	.....	“ “ 1 00

The Metal Endoscope gives a better light, and being made of thinner material, it is possible to get a larger inside caliber and a correspondingly better view.

5087.*	“ Klotz's, silver plated regular sizes,	\$1 50 ; large sizes	2 00
5088.*	“ “ “ “ “ “ “ “ “ “ “ “	“ “ 2 50 “ “	3 00

All instruments illustrated are designated by a *.

Male Urethral Instruments.
URETHROSCOPES.



5089

5089.* Air-Dilating Illuminating Urethroscope, Ernest G. Mark's; set of instruments in leather covered case \$24 00

CONTENTS.

One Urethral Tube, either No. 22, 24, 26 or 28, either male (1) or female (3), with obturator (5); one Universal Head (shown attached to 1); one Light Carrier (6), either male or female; one Operating Window (2); one Observation Window (4); one Knife, either straight safe-edge (10A), or bent safe-edge (10B), or double edge (10C); one Handle (11) for knives; one Syringe (8); one Canula, 14 karat gold (8); one Canula, plated (9); one Rubber Dilating Bulb, double (12); one extra Lamp; one dozen Rubber Nipples; one pair Conducting Cords.

N. B.—Cautery Instrument (7) *not* included.

EXTRA INSTRUMENTS.

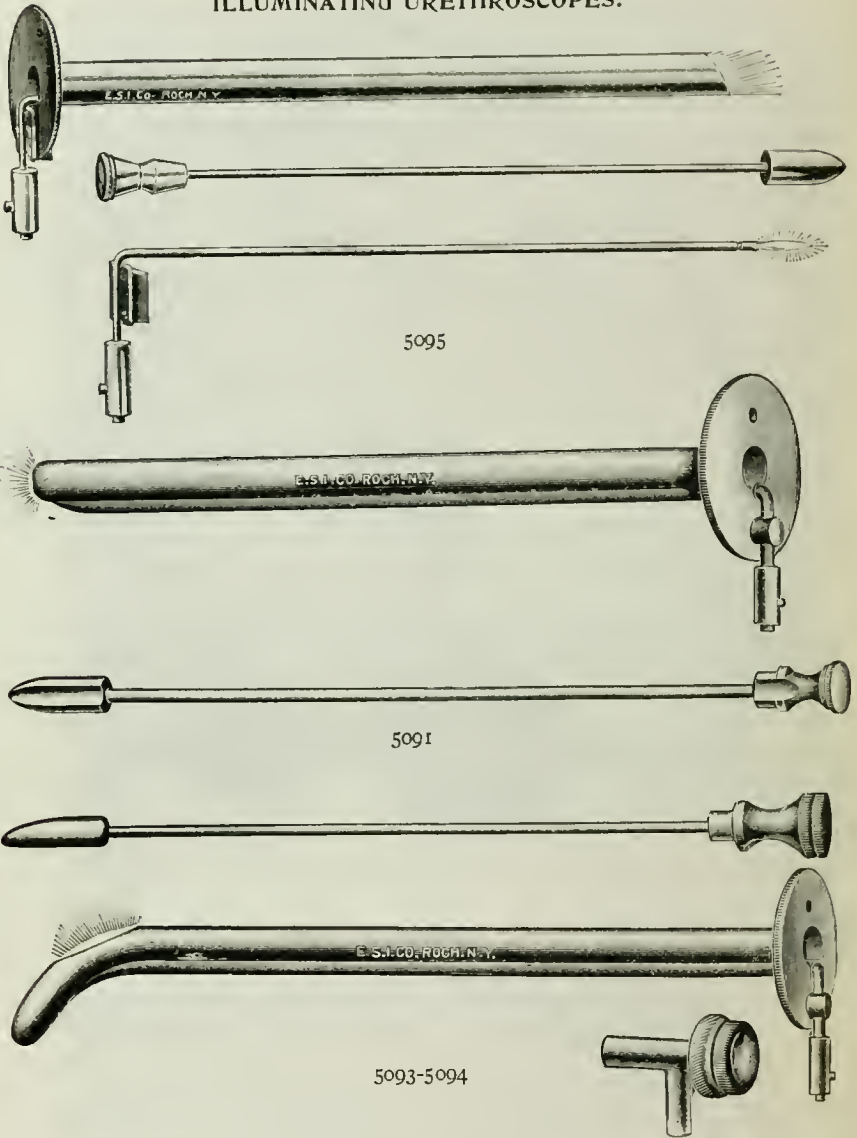
Urethral Tubes (1 and 3), interchangeable	each	\$4 00
Swinburne's Posterior Tube, either No. 22, 24 or 26	"	6 00
Light Carriers (6)	"	2 25
Knives (10A, 10B, 10C)	"	1 00
Lamps	"	50
Rubber Nipples	per dozen	25

When any extra instruments are ordered at same time with complete set, they are also fitted into the case.

For Batteries and Electric Lamp Controllers see Electrical Section.

Urethroscopes.

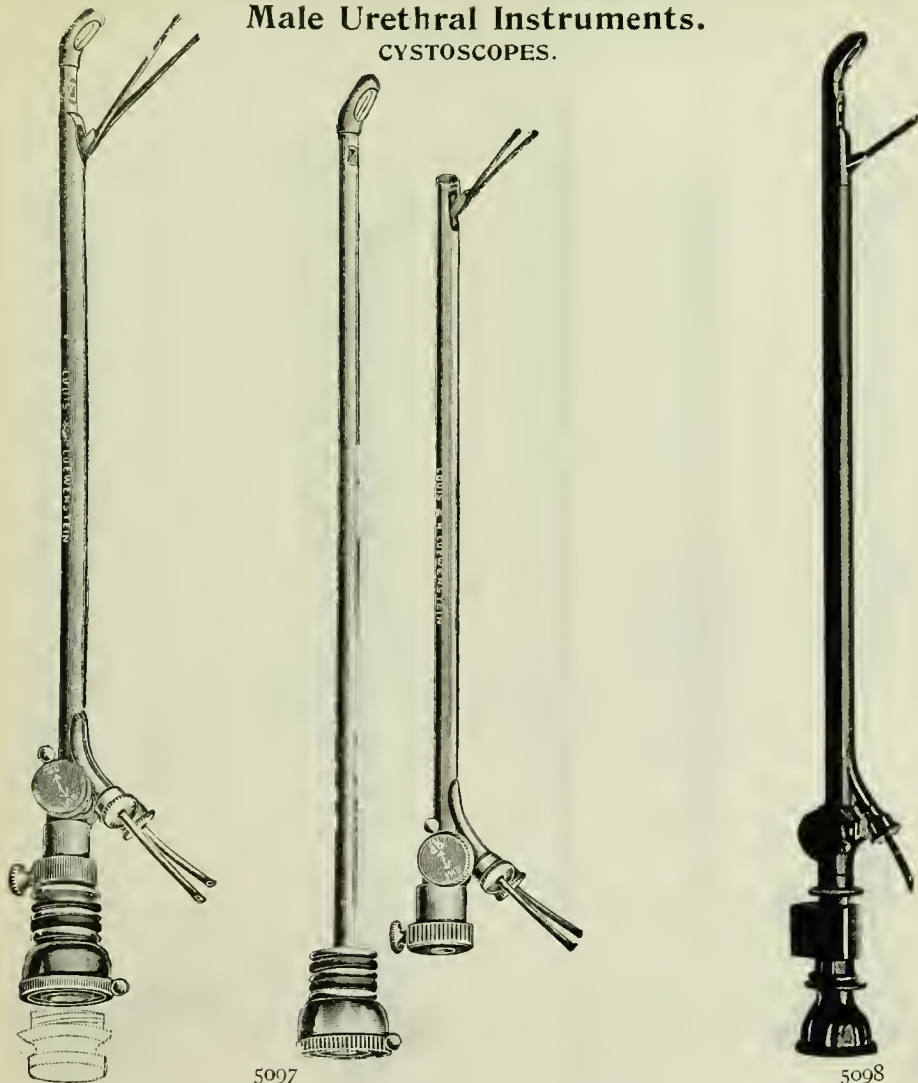
ILLUMINATING URETHROSCOPES.



- 5091.* Koch's Anterior, any size, including obturator (\$3 50), light carrier (\$2 25) and cords (\$1 00) set \$6 75
 - 5092. Lentz's " any size, including obturator (\$1 50), light carrier (\$2 75) and cords (\$1 00) set 5 25
 - 5093.* Swinburne's Posterior, with auxiliary tube to accommodate light carrier; furnished in sizes either Nos. 22, 24 or 26, with obturator and light carrier set 8 00
 - 5094.* " " with obturator, light carrier, window attachment and dilating bulbs set 12 00
 - 5095.* Valentine's Anterior, any size, including obturator (\$2 50), light carrier (\$2 25) and cords (\$1 00) set 5 75
- Extra Lamps, 50 cents each.

For Batteries and Electric Lamp Controllers see Electrical Section.

Male Urethral Instruments.
CYSTOSCOPES.



5097

5098

Illuminating Cystoscopes.

5097.* Bierhoff's, combination examining, double catheterizing and irrigating. Made by Loewenstein-Berlin. Complete, with extra lamp, conducting cords, two small stop-cocks and two ureter catheters, in case . \$80 00
Extra Lamps, with fitting each 1 50

The Bierhoff's Cystoscope consists primarily of a plain examining cystoscope (Fig. 1), size No. 16 French scale, complete in itself. The beak and lamp are removable and transferable to an outer sheath (Fig. 2), size 23 French scale, which is provided with a double channel with catheter director, and permits a simultaneous introduction of two No. 6 ureter catheters. Figure 3 shows completely assembled instrument. Irrigation is made through the catheter channels.

5098.* Nitze's-Schlagintweit's, improved, single catheterizing and irrigating, with catheter director. Complete, with extra lamp, conducting cords, two-way stop-cock, small stop-cock for catheter channel, and one ureter catheter \$60 00
Extra Lamps, with fitting each 1 50

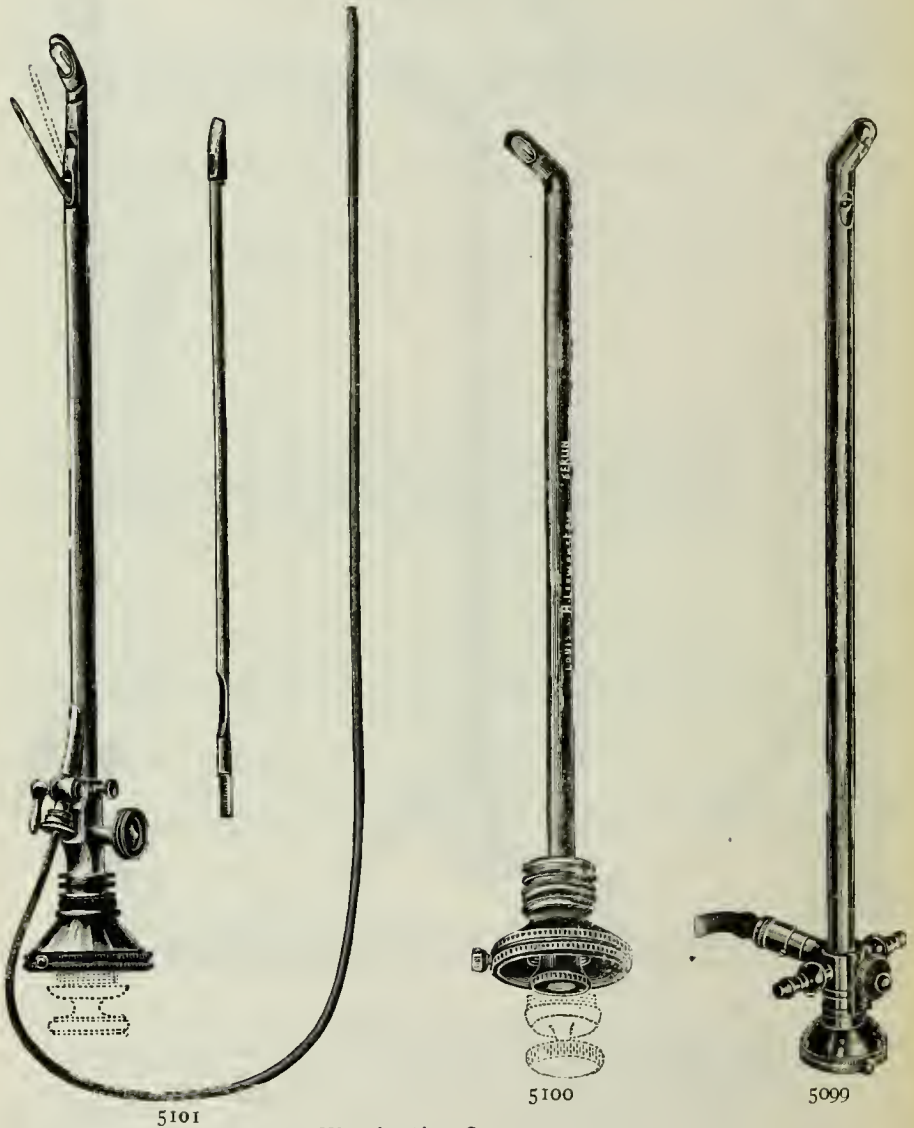
By removing the telescope the instrument can be used to irrigate the bladder. A ball valve automatically closes the outer sheath; through this valve the two-way stop-cock can be introduced for irrigation. The size of this instrument is No. 23 French scale.

5098a. Phantom Bladder, for practicing cystoscopy, on base 22 50

5098b. Cystoscope Holder, attachable to operating table 10 50

For Batteries and Electric Lamp Controllers, see Electrical Section.

Male Urethral Instruments.
CYSTOSCOPES.



5101

5100

5099

Illuminating Cystoscopes.

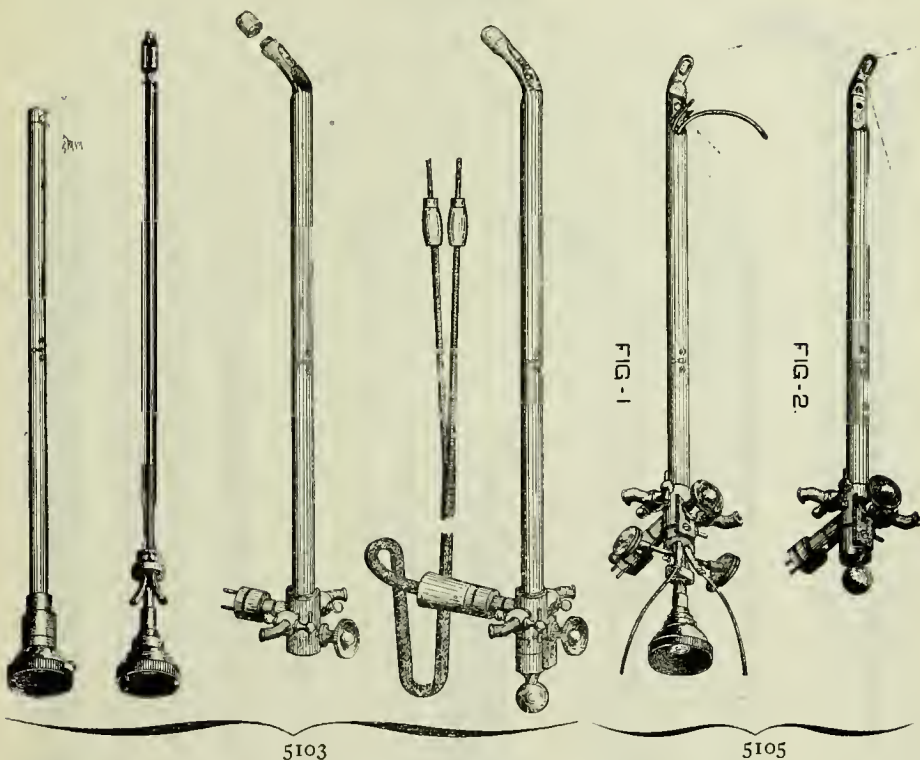
- 5099.* Otis' Examining, size No. 20 French scale, American make \$30 00
- 5100.* Nitze's Examining, corrected image, size No. 21 French scale; also sizes 14 and 18 French scale, made by Loewenstein 35 00
- 5101.* Nitze's latest, single catheterizing, size No. 23 French scale; for illuminating the bladder and simultaneous catheterization of the ureters. The catheter is movable at end, so as to find ureter without disarranging the focus. Made by Loewenstein. Complete with conducting cords, extra lamp and ureter catheter in case 70 00
- 5102. Nitze's latest, like Figure 5101, but double catheterizing. Complete, in case, with two ureter catheters 80 00
- Extra Lamps, with fittings, for No. 5099 each 1 00
- " " " " " Nos. 5100, 5101 and 5102 " 1 50

For Batteries and Electric Lamp Controllers see Electrical Section.

*All instruments illustrated are designated by a *.*

Male Urethral Instruments.

CYSTOSCOPES.



Illuminating Cystoscopes.

- 5103.* F. Tilden Brown's Composite Cystoscope; set consisting of one direct examining lens system, one direct catheterizing lens system, one indirect examining lens system, one indirect catheterizing system, one pair conducting cords and two extra lamps, in case . . \$120 00
- 5104. F. Tilden Brown's Cystoscope; set consisting of one direct catheterizing lens system, one indirect examining lens system, one pair conducting cords and two extra lamps, in case.
Male set, \$60 00; female set 50 00
- 5105.* Brown-Berger's Combination Examining, Irrigating and Catheterizing Cystoscope, with conducting cords and two extra lamps. Male, \$65 00; with corrected image, \$85 00; female, corrected image 85 00
- 5106. Brown-Berger's Urethro-Cystoscope, combined male and female . . 40 00
Extra Lamps, \$1 50 each.

For Urine Segregators see page 362.

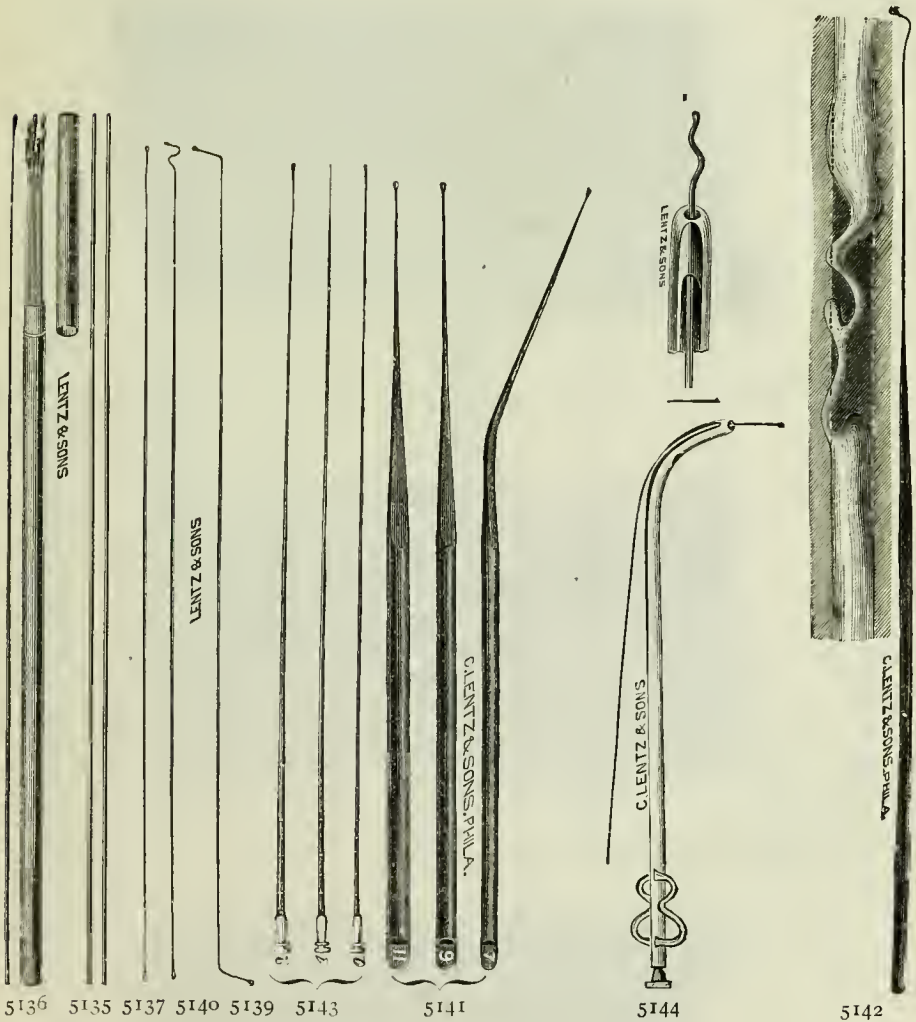
For Batteries and Electric Lamp Controllers see Electrical Section.

*All instruments illustrated are designated by a *.*

"Our factory is equipped to repair, sharpen, hone, nickel plate, your instruments in the best of manner and at shortest notice. For approximate costs of repair work, see page following index."

Male Urethral Instruments.

BOUGIES.

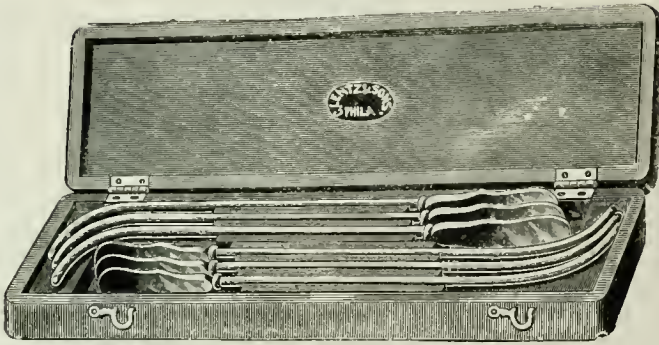


5135.*	Filiform Bougie, whalebone, cylindrical,	doz. in nickel-plated case, \$1 75; each	\$0 20
5136.*	" " " " olivary at one end,	doz. in nickel-plated case, \$2 00; each	25
5137.*	" " " " at both ends	" " " "	30
5138.*	" " " " 20 inches long	" " " "	45
5139.*	" " " " Gouley's, angular, for eccentric and tortuous strictures	" " " "	35
5140.*	" " " " corkscrew-shaped, for eccentric and tortuous strictures	" " " "	35
5141.*	" " " " Bank's, wedge-shaped, three sizes	\$1 00 to	1 50
5142.*	" " " " Hunter's (filamentous wedge)	" " " "	1 00
5143.*	" " " " silk web, d'Etiole's, conical	" " " "	65
5144.*	Tunnelled Catheter, Gouley's, for filiform bougies	" " " "	1 00

*All instruments illustrated are designated by a *.*

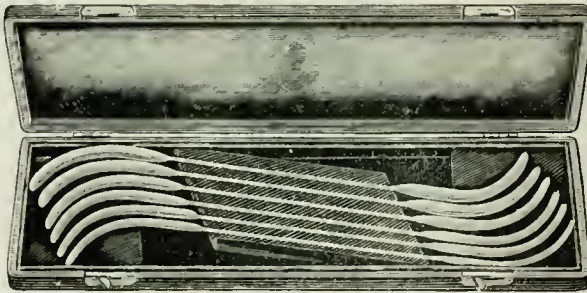
Male Urethral Instruments.

SETS OF BOUGIES IN CASES.



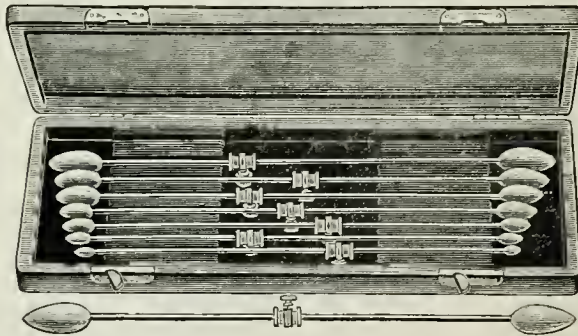
5147

- | | | |
|--------|---|--------|
| 5147.* | Bougies, Van Buren-Keys', in morocco leather case, set of six | \$4 35 |
| 5148. | " " " " " " " " " " eight | 5 50 |
| 5149. | " " " " " " " " " " twelve | 8 50 |



5154

- | | | |
|--------|---|--------|
| 5154.* | Fowler's Set of Bougies, twelve sizes, from 14 to 30, French scale, in leather-lined morocco case | \$3 00 |
|--------|---|--------|



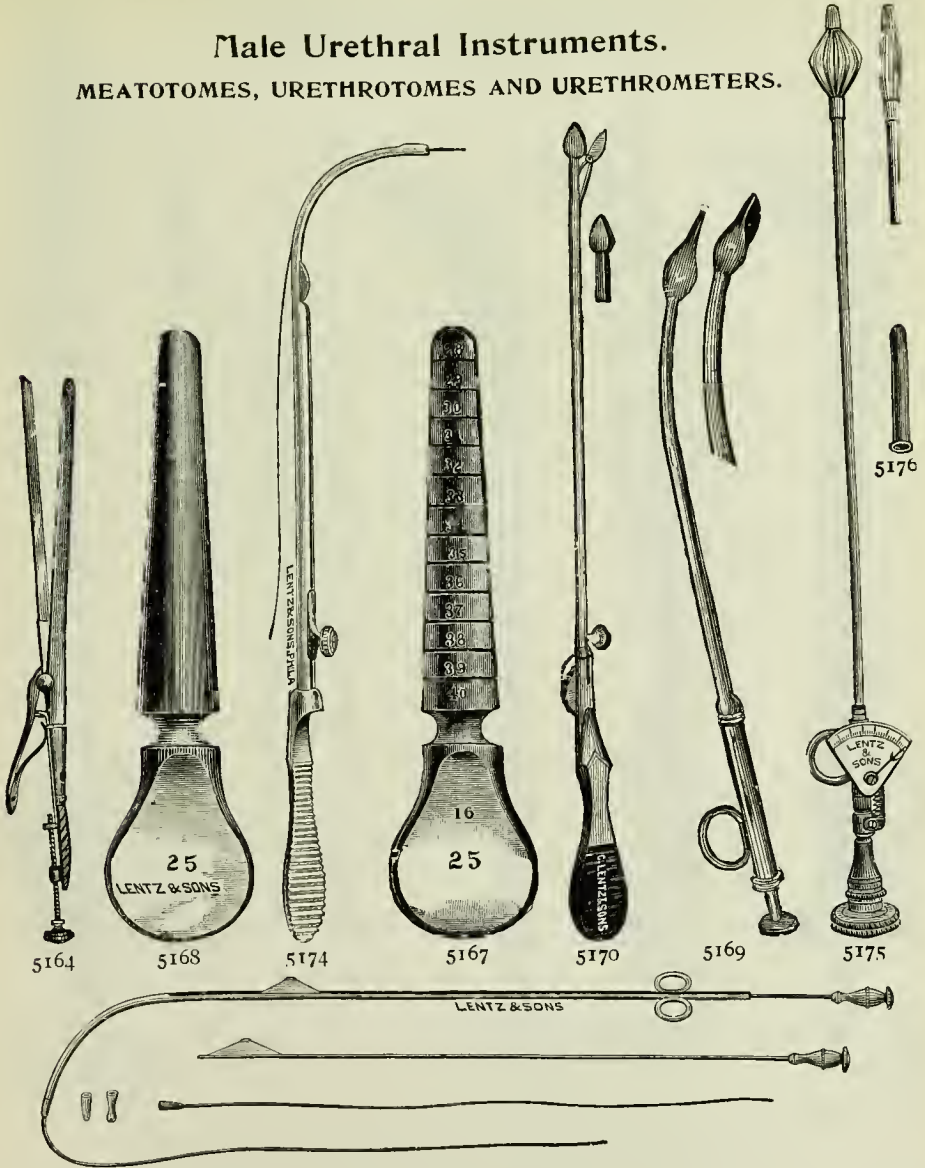
5160

- | | | |
|--------|---|--------|
| 5160.* | Exploring Bougies, Fowler's modification of Otis', set of 16 bulbs, numbered according to the French scale, giving every even number from 10 to 40; in leather-lined morocco case | \$3 00 |
|--------|---|--------|

*All instruments illustrated are designated by a *.*

Male Urethral Instruments.

MEATOTOMES, URETHROTOMES AND URETHROMETERS.

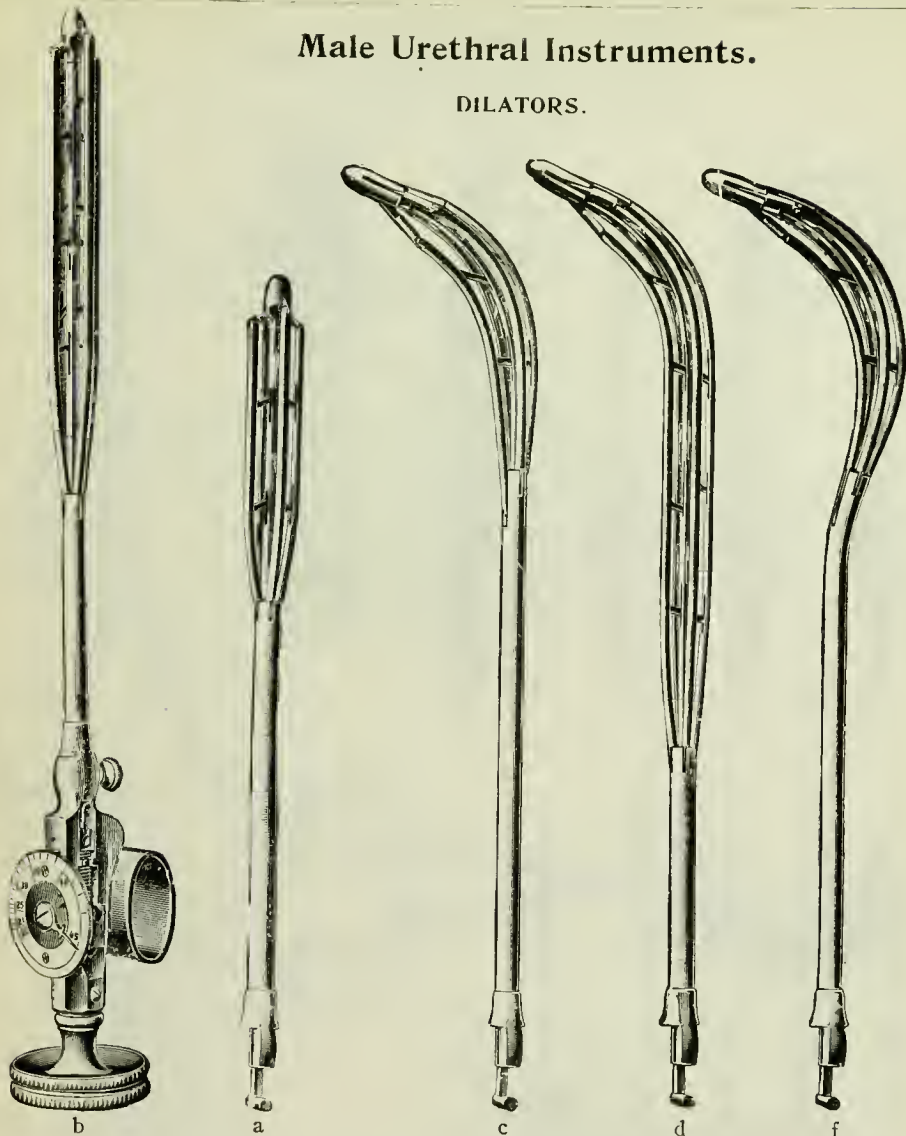


		5173	
5164.*	Meatotome, Civiale's Bistoury Caché		\$4 50
5165.	" Gouley's		2 25
5166.	" Otis', metal handle		1 50
5167.*	Meatometer, Piffard's, graduated		85
5168.*	Meatus Sound " conical		65
5169.*	Urethrotome, S. D. Gross', straight or curved	each	2 75
5170.*	" S. W. Gross', straight		2 75
5171.	" Gouley's, tunneled, original		4 50
5172.	" " " improved		12 50
5173.*	" Maisonneuve's, in case		8 00
5174.*	" White's		7 00
5175.*	Urethrometer, Otis', hinged, latest pattern		12 00
5176.*	Rubber Caps for Otis' Urethrometer	per doz.	1 50
5177.	Urethrometer and Dilator combined, Kollmann's		20 00

*All instruments illustrated are designated by a *.*

Male Urethral Instruments.

DILATORS.



Kollmann's Urethral Dilators, four-bladed, articulated.

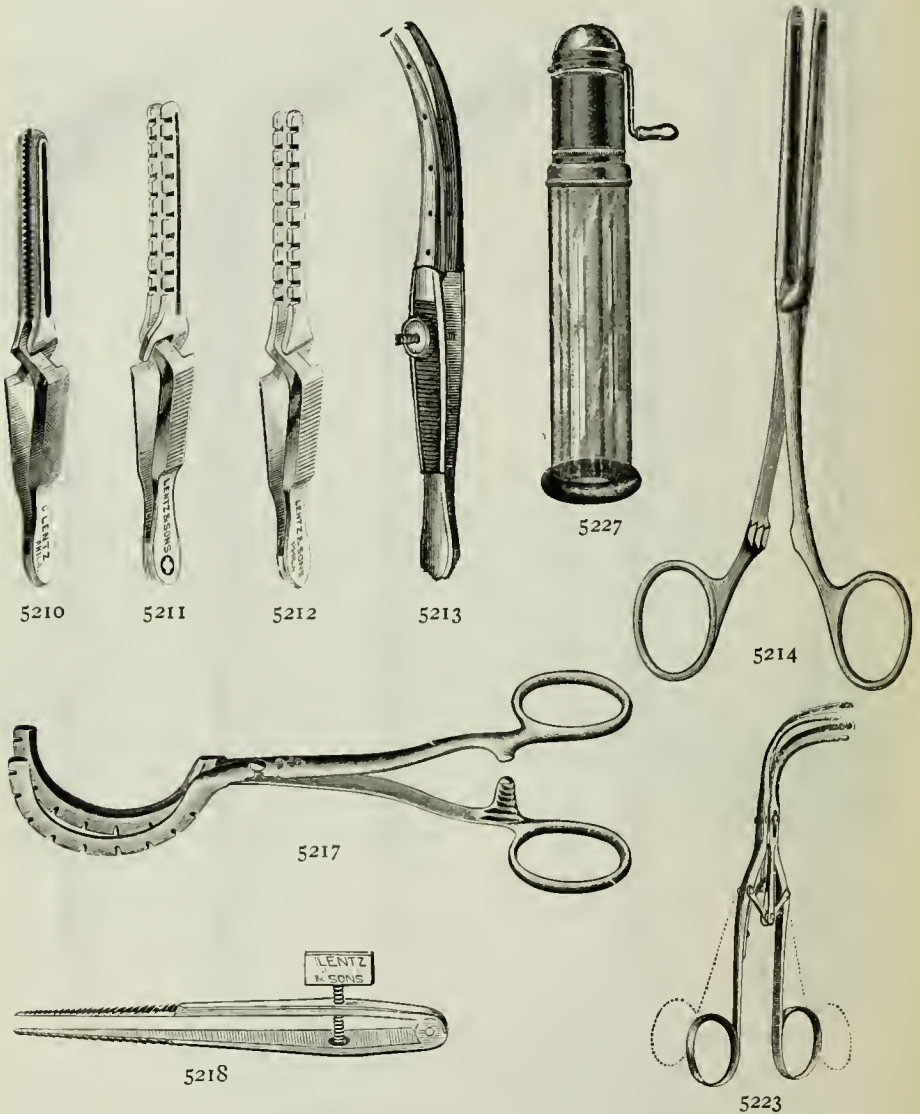
- | | | |
|---------|--|---------|
| 5206a.* | Straight, with short branches, for anterior urethra; complete with handle, \$22 50; blade only | \$15 50 |
| 5206b.* | Straight, with long branches, for anterior urethra; complete with handle, \$23 50; blade only | 16 50 |
| 5206c.* | Curved, for posterior urethra; complete with handle, \$26 00; blade only | 19 00 |
| 5206d.* | Curved, for anterior and posterior urethra; complete with handle, \$31 00; blade only | 24 00 |
| 5206e. | Curved, for posterior urethra, with Benique's curve; complete with handle \$27 00; blade only | 20 00 |
| 5206f.* | Curved, for posterior urethra, with Guyon's curve; complete with handle, \$27 00; blade only | 20 00 |

These Dilators are thoroughly aseptic and of finest workmanship. The blades are interchangeable, and, if so preferred, one handle will suffice for one or all blades.

No covers required for these instruments, as the blades are so constructed that they cannot catch the folds of the urethra.

Male Urethral Instruments.

PHIMOSIS FORCEPS.

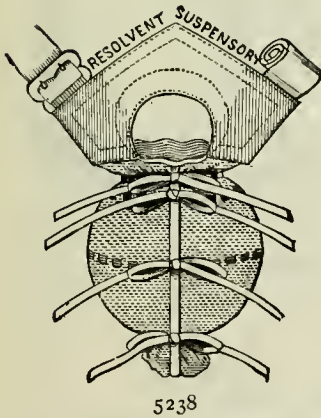
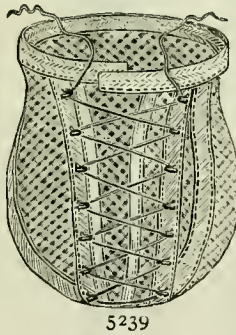
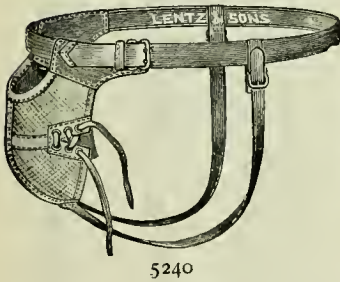
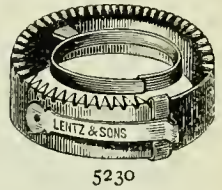
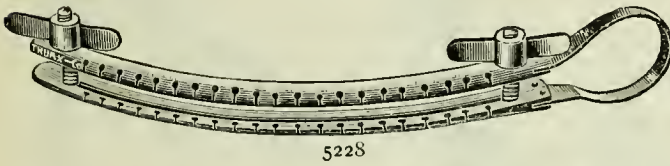


5210.*	Phimosi Forceps, Skillern's	\$1 75
5211.*	" " Fran ^l 'lin's, separable blades	3 00
5212.*	" " Tortat's	1 75
5213.*	" " Fisher's	2 00
5214.*	" " Ricord's, with catches	2 50
5217.*	" " Baird's, three sizes each	2 50
5218.*	Preputial Dilator, Levis'	2 00
5220.	" " Girdner's	1 50
5223.*	" " Stewart's, four-bladed	7 50
5224.	" " Nelaton's, three-bladed	5 50
5226.	Penis Developer, Jennison's patient, \$4 50; physician	3 75
5227.*	" " "Modern" " 5 00; "	4 00

*All instruments illustrated are designated by a **

Male Urethral Instruments.

VARICOCELE CLAMPS AND NEEDLES.

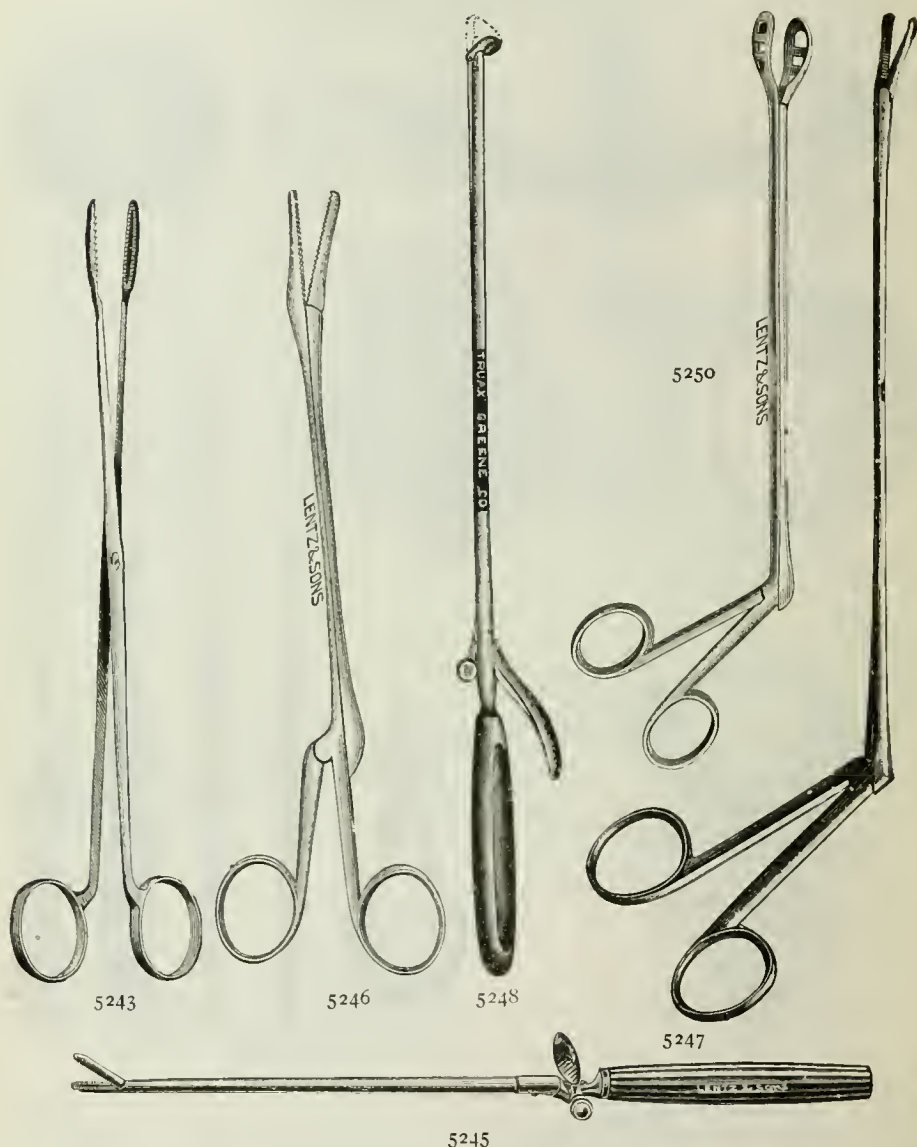


5228.*	Varicocele Clamp, King's	.....	\$4 00
5229.	" " Lewis'	.....	2 50
5230.*	Spermatorrhea Ring, silver plated	..... patients, \$1 00; phys.	50
5231.*	Varicocele Needle, Keyes', lance point	.....	1 25
5232.*	" " oblique	.....	1 25
5233.*	" " improved, self-closing eye	.....	3 25
5236.*	Syringe, Hydrocele, Van Buren's, rubber bag with stop-cock	.....	1 50
5237.*	" " hard rubber, 1/4 oz., with long silver tube to introduce through Trocar Canula for injecting hydrocele	.....	1 00
5238.*	Scrotal Compressor, Milliano's, three sizes	..... patients, \$1 25; phys.	1 00
5239.*	" " Carroll's, silk elastic, for orchitis, three sizes	..... patients, \$1 50; phys.	1 20
5240.*	" " Martin's modified Langelbert's, for epididymitis, three sizes.	..... patients, \$1 25; phys.	1 00

All instruments illustrated are designated by a *.

Male Urethral Instruments.

FOREIGN BODY FORCEPS.

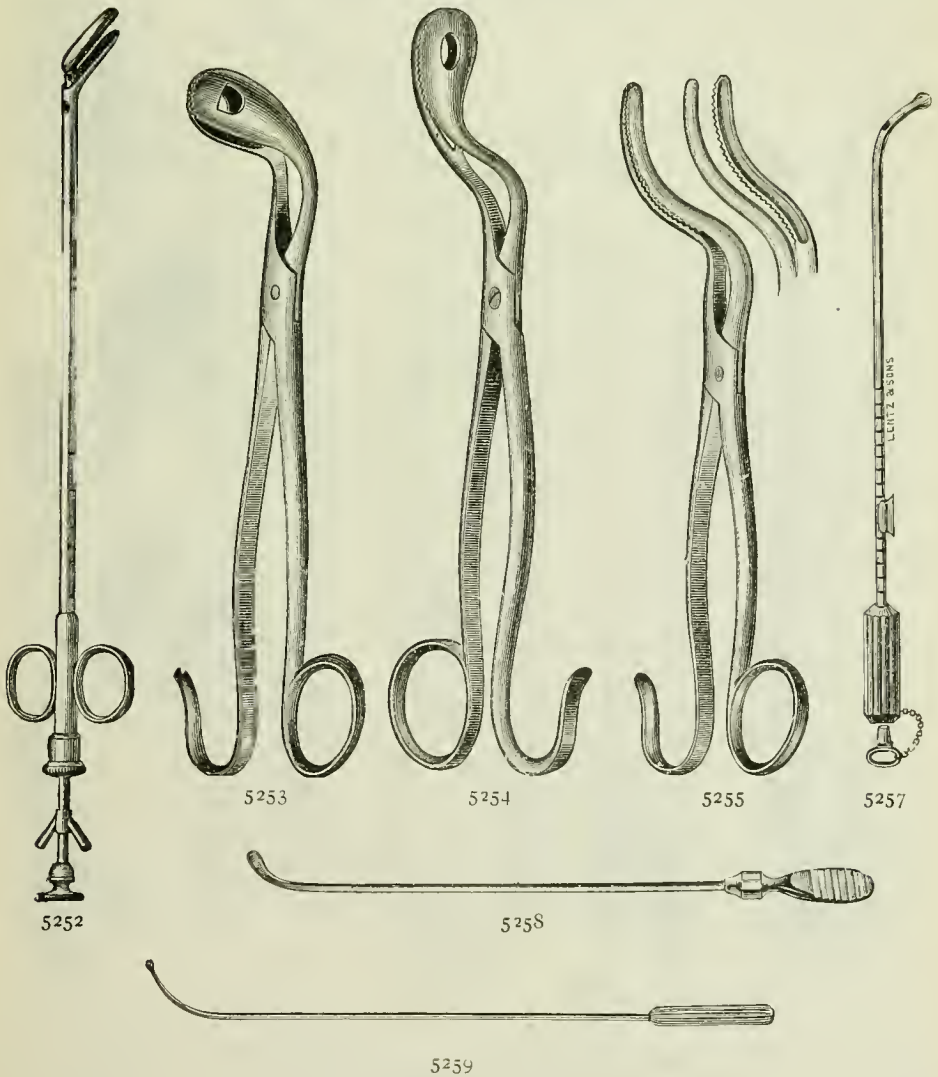


- 5243.* Forceps, for removing foreign bodies, Thompson's straight, aseptic lock . \$1 50
 - 5244. " " " " " " curved, " " . 1 75
 - 5245.* " " " " " " Collin's 6 50
 - 5246.* " " " " " " Mathieu's 5 50
 - 5247.* " " " " " " latest, aseptic lock 6 00
 - 5248.* Scoop " " " " " " Langenbeck's articulated 5 00
 - 5249. " " " " " " Leroy d'Etiolle's " 5 00
 - 5250.* Cholecystotomy Forceps, Tait's, for removing gall stones 6 00
 - 5251. " " Spoon, Franklin's, for " " " " 1 75
- Has a wire scoop at one end and a double wire straight loop at the other. Made of pliable copper, plated.

*All instruments illustrated are designated by a *.*

Male Urethral Instruments.

AVULSION FORCEPS AND STONE SEARCHERS.

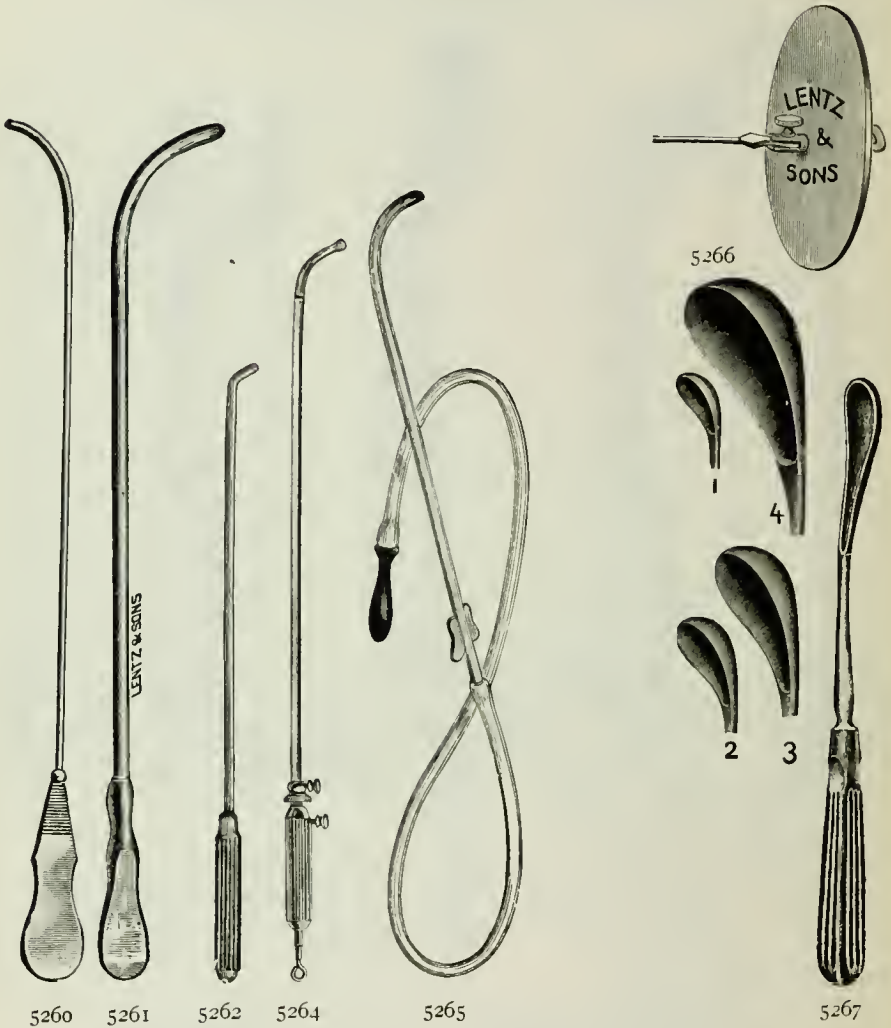


5252.*	Bladder Explorer, Tuschmann's	..	\$9 00
5253.*	Vesical Forceps, for removing growths from the bladder, Thompson's, curved	..	3 00
5254.*	" " " " " " " " " " " " bayonet	..	3 00
5255.*	" " " " " " " " " " " " curve	..	3 00
5256.	" " " " " " " " " " " " double	..	3 00
5257.*	" " Sound, for the female bladder	..	65
5258.*	Stone Searcher, Thompson's evacuating	..	1 25
5258.*	" " " " plain, flat end	..	1 25
5259.*	" " Little's	..	1 00

*All instruments illustrated are designated by a *.*

Male Urethral Instruments.

STONE SEARCHERS, ETC.



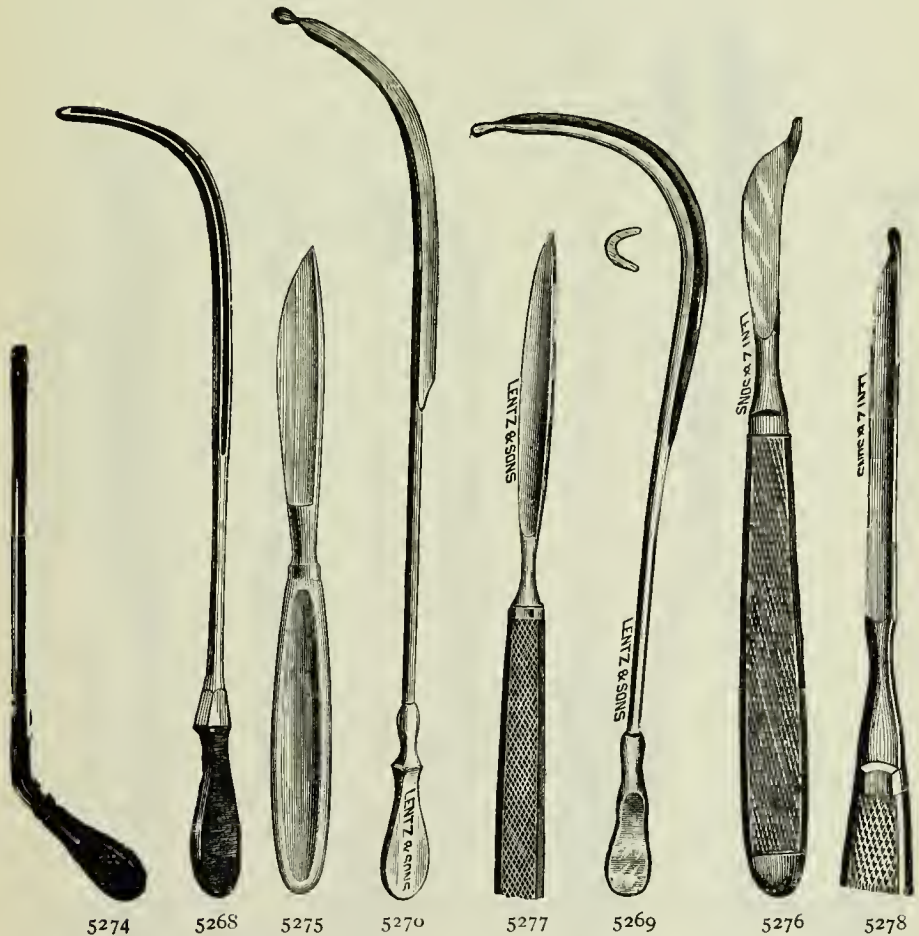
5260.*	Stone Searcher, Horwitz's	child's, 90c.; adult's	\$1 25
5261.*	“ “ plain, cylindrical or bulbous end	each	75
5262.*	“ “ Keyes'		1 75
5263.	“ “ Gouley's		1 00
5264.*	“ “ Otis'		3 50
5265.*	“ “ Andrew's, with tubing and earpiece		1 25
5266.*	Sounding Board, Billroth's		2 50
5267.*	Lithotomy Scoop, Luer-Koerte's, four sizes	each	2 00

*All instruments illustrated are designated by a *.*

“The name LENTZ on any instrument is to you a guarantee of superior quality and absolute reliability.”

Male Urethral Instruments.

LITHOTOMY STAFFS AND KNIVES.

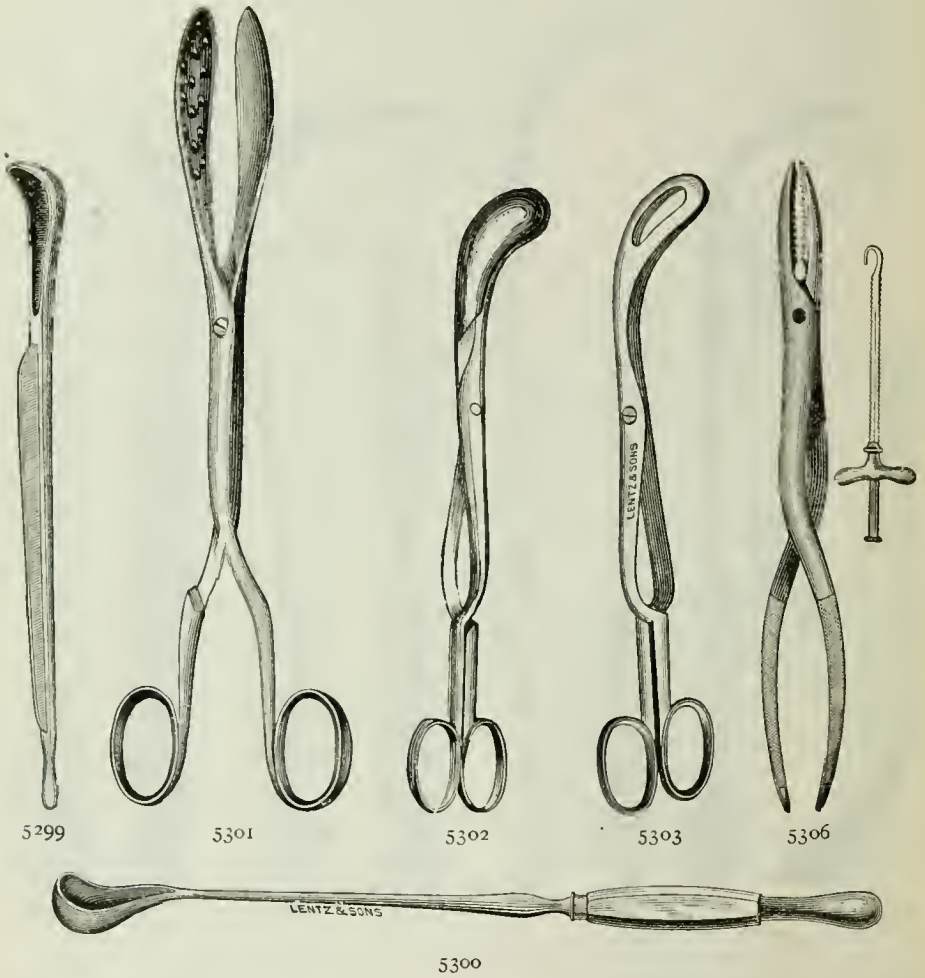


5268.*	Lithotomy Staff, plain	\$1 25
5269.*	“ “ Little’s	1 50
5270.*	“ “ Markoe’s	1 50
5271.	“ “ Buchanan’s, rectangular	1 50
5272.	“ “ laterally grooved	1 30
5273.	“ “ and Bisector, Wood’s	5 00
5274.*	“ Director, Little’s, metal handle	1 00
5275.*	“ Scalpel, sharp pointed, metal handle	1 50
5276.*	“ “ probe “ “	1 75
5277.*	“ Bistoury, sharp “ “ Little’s	1 50
5278.*	“ “ probe “ “ Blizard’s	1 75
5279.*	“ Knife, Wyeth’s, metal handle	1 50
5280.*	“ “ Teevan’s, metal handle	2 50

*All instruments illustrated are designated by a *.*

Male Urethral Instruments.

LITHOTOMY FORCEPS, LITHOCLASTS, ETC.

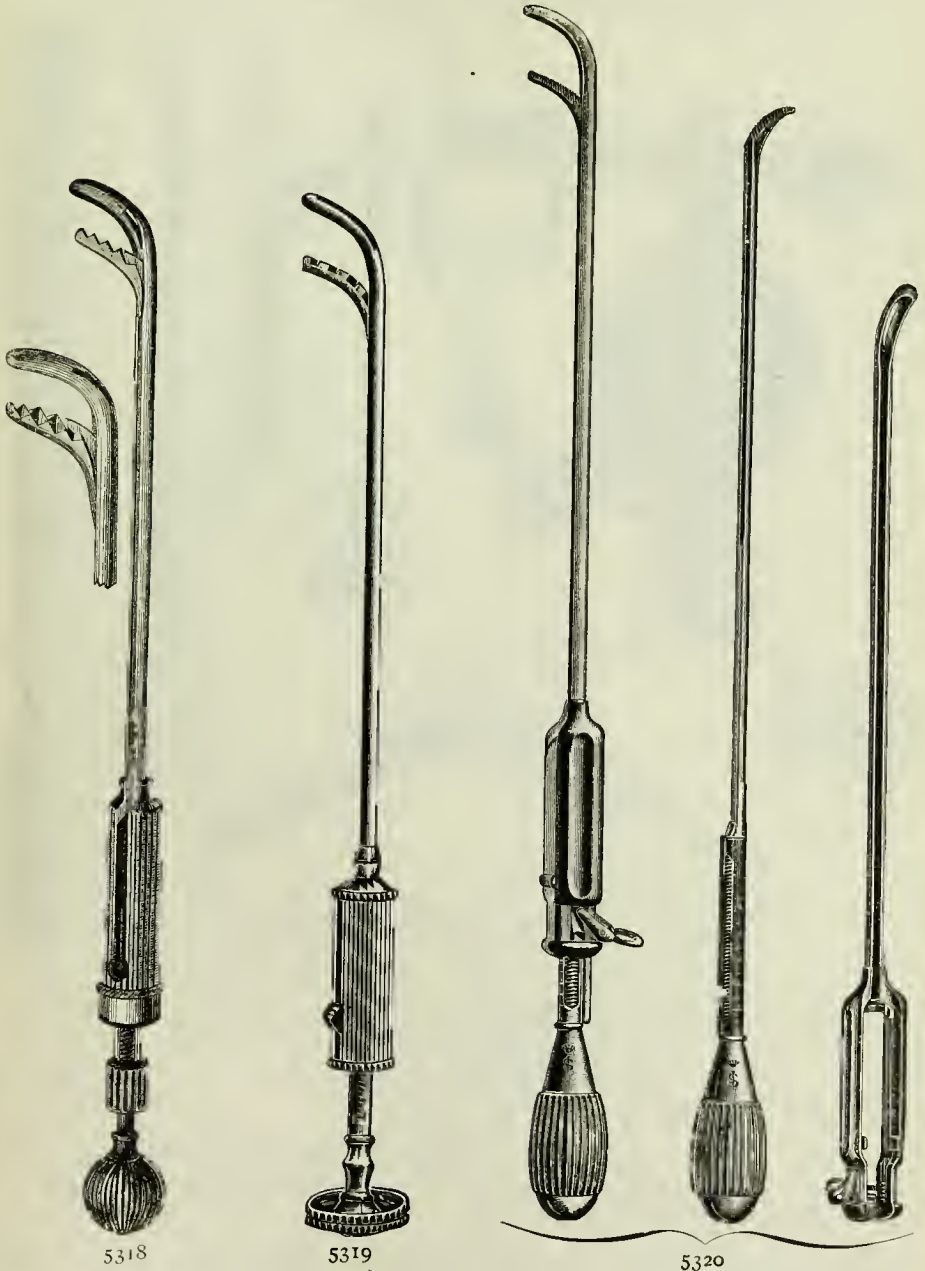


5299.*	Lithotomy Scoop and Conductor	\$1 75
5300.*	“ “ Luer's, for removing calculus and debris	2 00
5301.*	“ “ Forceps, straight, aseptic lock	2 25
5302.*	“ “ “ curved “ “	2 50
5303.*	“ “ “ with fenestra, aseptic lock	2 75
5304.	“ “ “ “ “ Teevan's	3 00
5305.	“ “ “ Mathieu's	2 50
5306.*	Lithoclast, Dolbeau's	6 00
5307.	“ Gouley's, double lever	8 00
5308.	“ Guide, Dolbeau's, for dilating the incision	2 50
5309.	Dilator, Dolbeau's, six-branched	16 50
5310.	“ Mathieu's	20 00

*All instruments illustrated are designated by a *.*

Male Urethral Instruments.

LITHOTRITES.

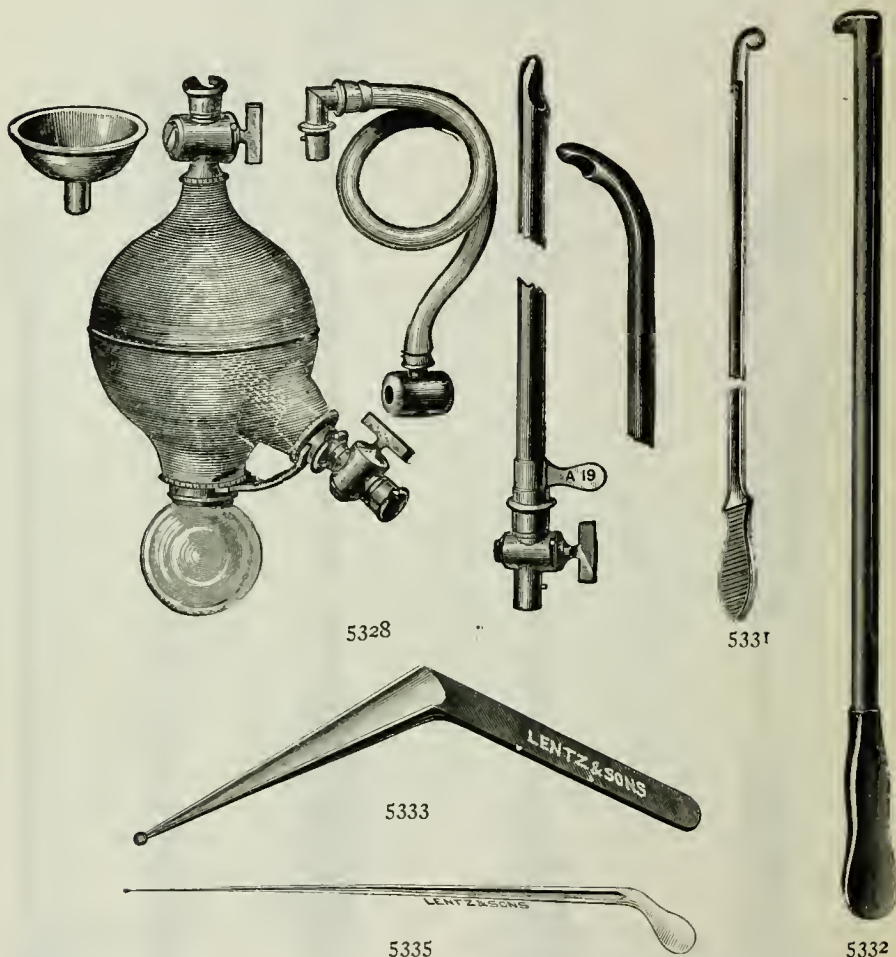


5318.*	Lithotrite,	Bigelow's, latest improved	\$25 00
5319.*	"	Thompson's	20 00
5320.*	"	Kuttner's, entirely dissectible and aseptic	24 00
5321.	"	Keyes'	24 00
5322.	"	Civiale's	20 00

*All instruments illustrated are designated by a *.*

Male Urethral Instruments.

EVACUATORS. EXTERNAL URETHROTOMY INSTRUMENTS.



- 5328.* Evacuator, Bigelow's latest, complete with two catheters, etc., in case \$25 00
Extra Catheters, \$3 00 each.
- 5329. " Chrismore's, with two catheters, in case 13 50
- 5330. Staff for External Urethrotomy, Syme's 1 75
- 5331.* " " " " Wheelhouse's 1 75
- 5332.* " " " " Mastin's modified Wheelhouse's, with
centre hole at the bulbous portion to permit passing over a filiform 1 75
- 5333.* Gorget, Teale's, probe pointed 1 50
- 5334. " hooked end 2 25
- 5335.* Director, probe pointed, Arnott's, silver 1 00
- 5336. Tunnelled Catheter, Gouley's, for filiform bougies 1 00
- 5337. Bistoury, narrow, probe pointed, Gouley's 1 25
- 5338. Tenaculum (shark hook) " 1 00
- 5339. Perineal Guide, Trocar and Canula, Guitéras' 1 50

*All instruments illustrated are designated by a *.*

Male Urethral Instruments.

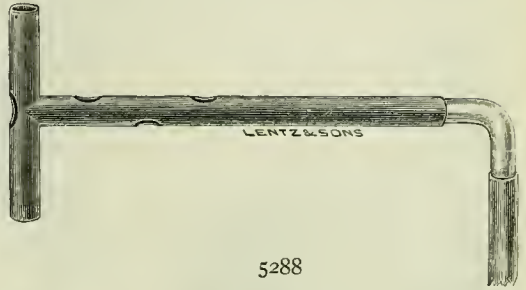
SUPRA-PUBIC DRAINAGE TUBES, ETC.



5283



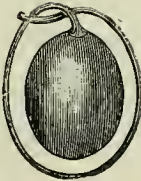
5284



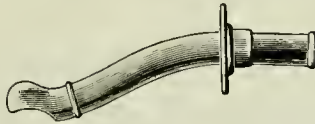
5288



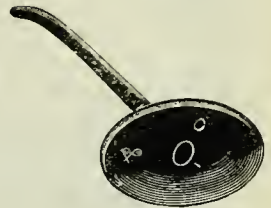
5286



5282



5287



5290

5281.	Supra-Pubic Drainage Apparatus, Bangs', hard rubber pad and soft rubber Catheter	\$1 50
5282.*	Colpeurynter, Peterson's, for raising the bladder, pure gum	1 75
5283.*	Lithotomy Canula, for plugging wound with gauze to control hemorrhage	75
5284.*	Supra-Pubic Drainage Tube, Keyes', hard rubber or metal	2 00
5285.	" " " Bloodgood's, hard rubber, with soft rubber urinal attachment	6 00
5286.*	" " " Senn's, plated	2 00
5287.*	" " " Watson's	3 00
5288.*	" " " Vischer's, soft rubber, with glass connection	1 25
5289.	" " " Allis's, plated	2 00
5290.*	Plug, Hunter McGuire's, hard rubber	90

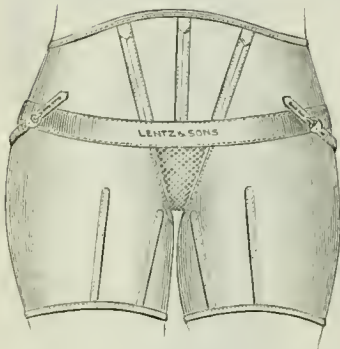
This plug is used to maintain the patency of an artificial supra-pubic urethra, and to act as a stopper to prevent dribbling of urine. It is intended for constant use, to be removed only when urine is voided.

5292.	Debris Tube, for washing out debris, Van Buren's, hard rubber	\$1 00
5293.	" " and Obturator plated, 90c.; silver	1 60
5294.	Catheter, Pezzer's self-retaining, with mushroom point and large opening in the center for vesico-urethral drainage after supra-pubic operations. (See page 401.)	80
5295.	Retractor, Keyes' perineal, for supra-pubic cystotomy	1 75
5296.	Apparatus for holding apart the lower extremities, Clover's improved	7 00

All instruments illustrated are designated by a *.

Urethral Instruments.

ANTI-MASTURBATION AND SUPRA-PUBIC DRAINAGE APPLIANCES.



5350



5358



5360

5350.* Anti-Masturbation Appliance, female; renders the advance toward the genitals impossible even to the most ingenious child.

Made of jean material, thoroughly reinforced by hard rubber covered stays. The portion guarding the genitals is of silver wire mesh, attached securely to a steel girdle, to which a pair of understraps fasten by lock device. Can be worn constantly, as it does not interfere with defecation.

Write for directions for taking measurements.

Price \$40 00 to \$50 00 ±

5351. Anti-Masturbation Appliance, male. Like No. 5350, except that the receiving part for the genitals is formed of sterling silver, perforated.

Price \$50 00 to 60 00 ±

5352. Anti-Masturbation Appliance; perforated metal protector; adjustable belt and understraps; German model female, \$15 00; male

18 00

5354. Orchitis Compressor, Ballenger's; without fountain syringe and bulb

8 00

5356. Artificial Testicles, celluloid; three sizes each

1 50

5358.* Supra-Pubic Drainage Appliance, Stevenson's; consisting of tube and round cup with belt and urinal.

Made to order \$13 00 to 20 00

5360.* " " " suitable also for hermaphrodites; consisting of long cup with belt and urinal. Made to order. Silver-plated, \$15 00 to \$22 00; silver, \$20 00 to

30 00

5362. " " " Lentz's; consisting of a soft rubber tube and a hard rubber plate with belt

4 00

5364. " " " Dittel's

6 50

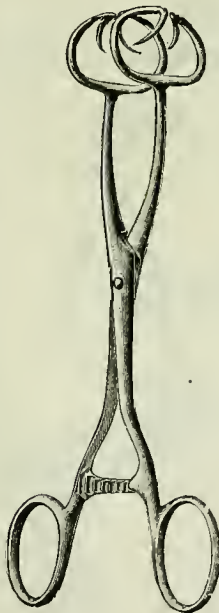
When ordering Supra-Pubic Drainage Appliances, specify the desired length and diameter of the tube, also the circumference of body below the crests of ilium.

*All articles illustrated are designated by a **

Goitre Instruments.



5390



5382



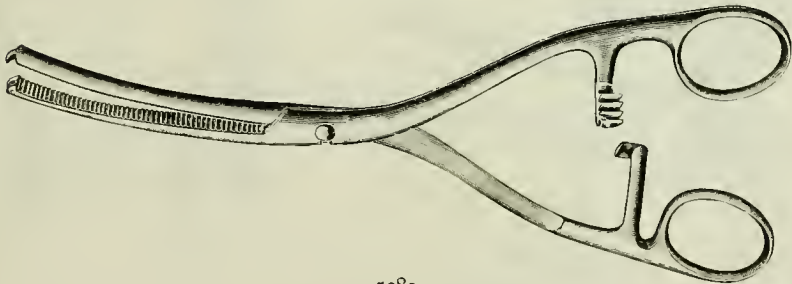
5384



5388



5386



5380

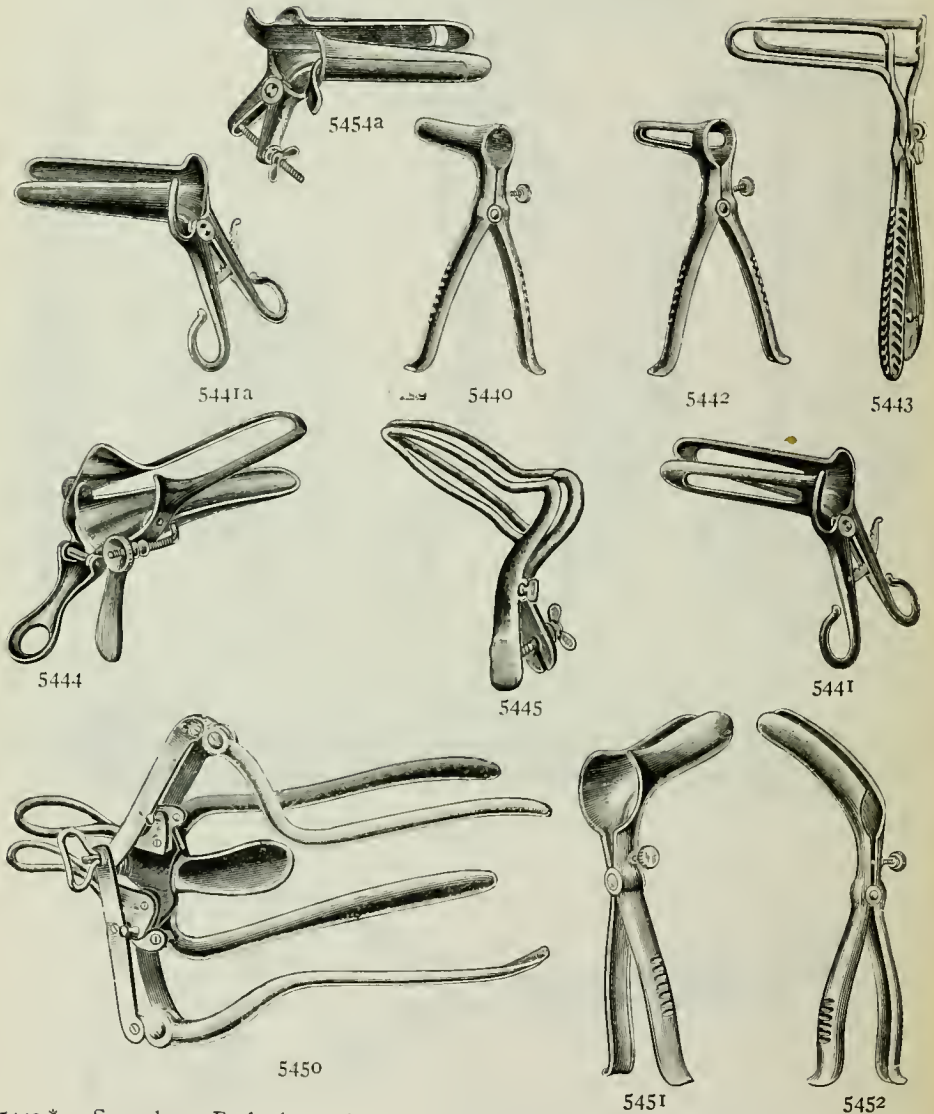
- | | | |
|--------|---|-----------|
| 5380.* | Compression Forceps, Kocher's, curved sideways, mouse teeth | \$4 00 |
| 5382.* | Gland Forceps, Kocher's, three sizes | each 5 00 |
| 5384.* | Scissors, Kocher's | 3 00 |
| 5386.* | Scoop, " | 1 25 |
| 5388.* | Bronchocele Sound, Kocher's without eye, \$1 15; with eye | 1 25 |
| 5390.* | Intubation Canula with Chloroform Apparatus and Introducing Forceps, Doyen's | 6 75 |
| 5392. | Ether Vapor Inhaler, Mary P. S. Rupert's, for the administration of ether in operations about the mouth and face. See illustration on page 7. Descriptive circular on application | 8 00 |

*All instruments illustrated are designated by a *.*

SECTION XII.

Rectal Instruments.

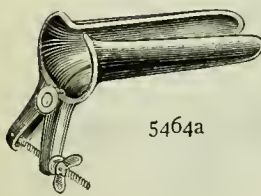
SPECULA.



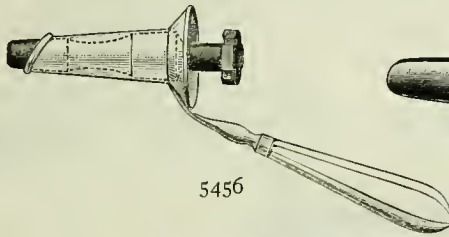
5440.*	Speculum, Bodenhamer's	\$1 50
5441.*	" Gant's fenestrated	3 50
5441a.*	" " examining	3 50
5441b.	" Murray's " tubular, with slide	5 00
5442.*	" Sims'	1 50
5443.*	" " all steel	3 75
5444.*	" Kelsey's	2 25
5445.*	" Mathews'	3 00
5450.*	" Allingham's, four bladed	8 50
5451.*	" Pratt's	2 00
5452.*	" " sigmoid	2 00
5454.	" Leonard's, bivalve	2 00
5454a.*	" O'Neil's	2 75
5457.	" Allingham's, conical, all metal	2 75

Rectal Instruments.

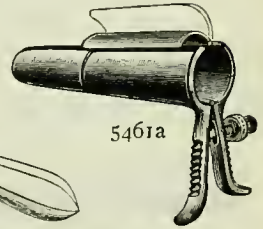
SPECULA. PROCTOSCOPES. SIGMOIDOSCOPES.



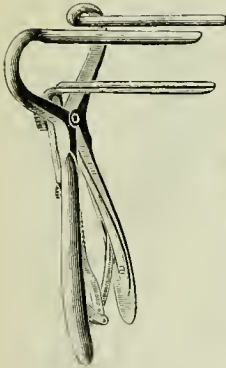
5464a



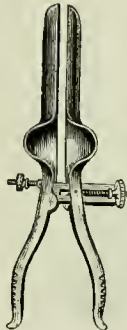
5456



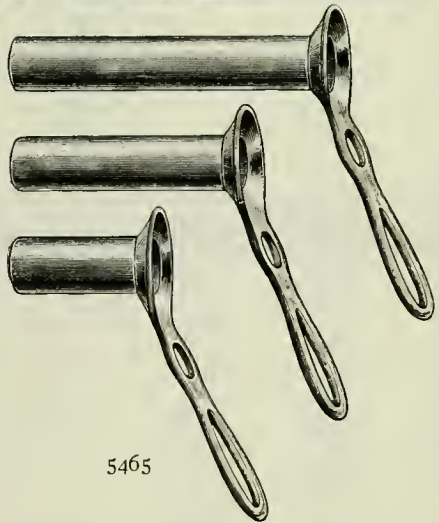
5461a



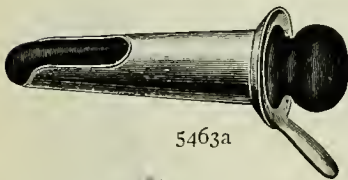
5460



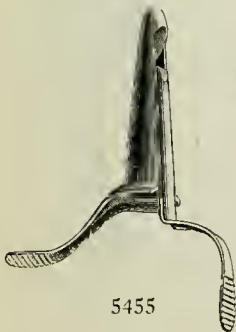
5462a



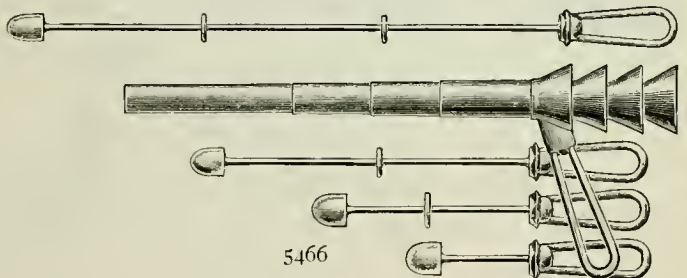
5465



5463a



5455



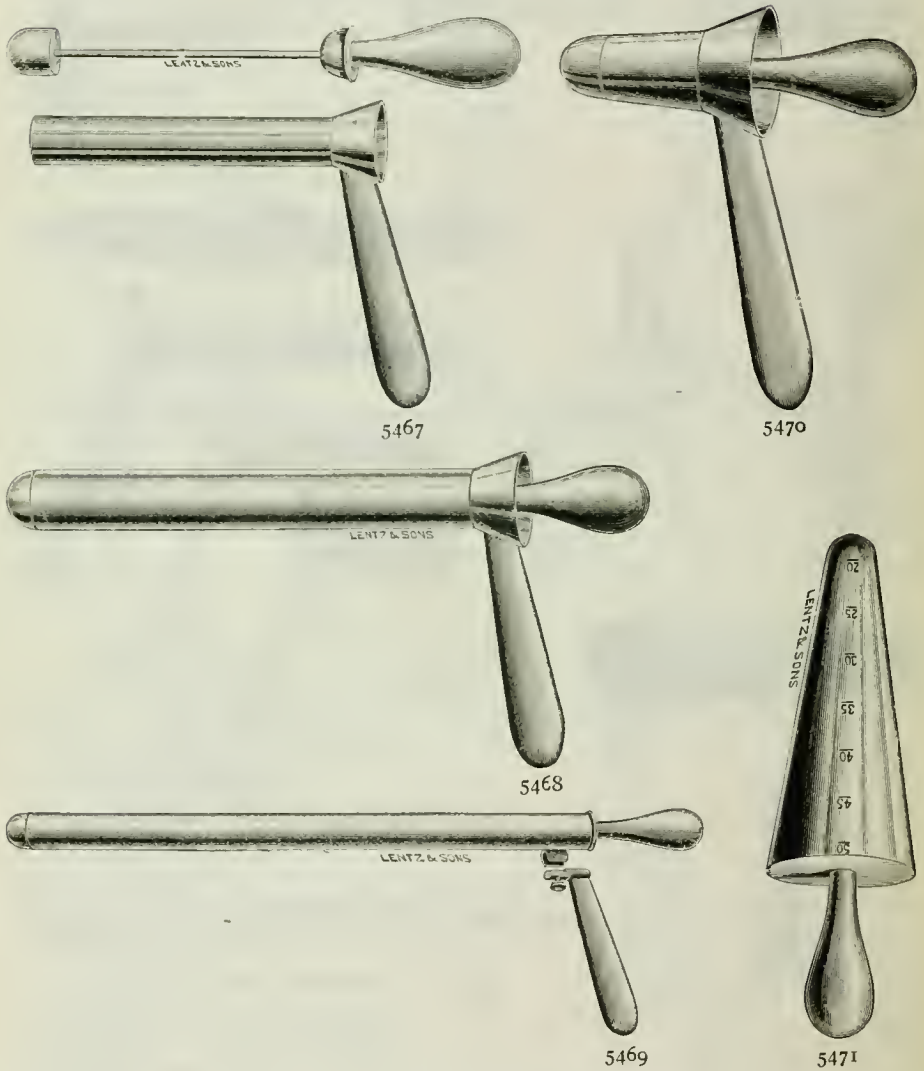
5466

5455.*	Speculum, Brinkerhoff's, three sizes	each \$3 50
5456.*	“ Collier F. Martin's, with h. r. obturator	3 75
5460.*	“ Cook's trivalve, steel, with automatic ratchet	5 50
5461a.*	“ “Philadelphia,” hinged top flange	3 00
5462a.*	“ “ “ “ parallel blades	1 50
5463a.*	“ Ives', with hard rubber obturator	3 25
5464a.*	“ “Ideal”	2 50
5465.*	Proctoscopes, Martin's, set of three with one hard rubber obturator	9 00
5466.*	Sigmoidoscopes, Murphy's, set of four with one handle	6 50

*All instruments illustrated are designated by a **

Rectal Instruments.

PROCTOSCOPES, SIGMOIDOSCOPES, ETC.

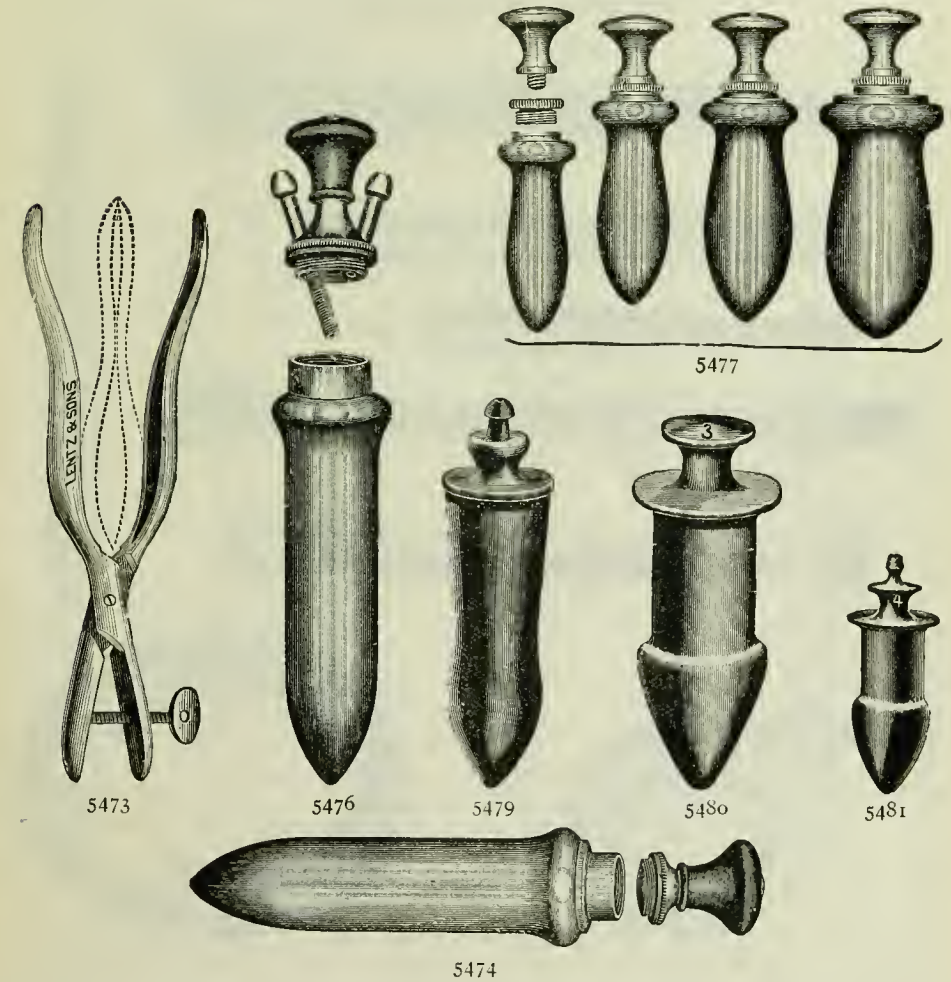


5467.*	Proctoscope, short, Kelly's	\$2 25
5468.*	“ long, “	2 50
5469.*	Sigmoidoscope, with detachable handle, Kelly's	3 25
5470.*	Sphincterscope, Kelly's	2 25
5471.*	Sphincter Dilator, conical, Kelly's, graduated	2 50

*All instruments illustrated are designated by a *.*

Rectal Instruments.

DILATORS.

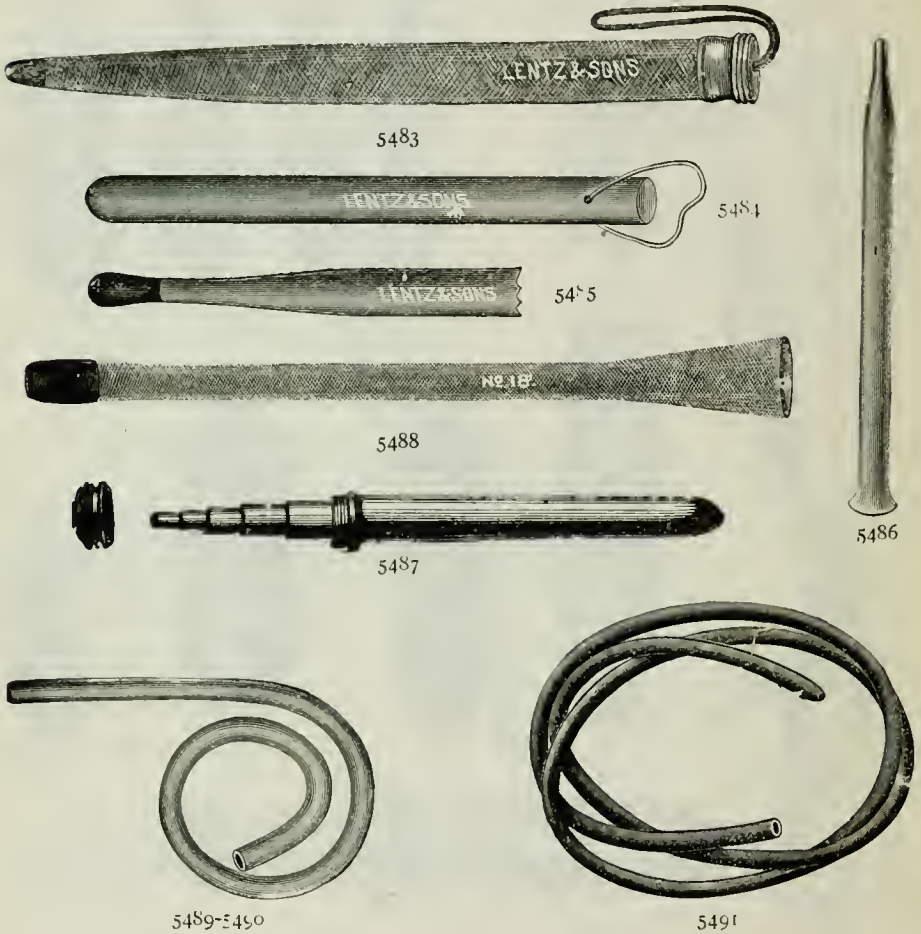


5473.*	Dilator, Sims', steel, nickel-plated	\$3 25
5474.*	" Pratt's, improved metal, with screw top; can be filled with either hot water or ice and salt, six sizes, $\frac{7}{8}$ in. to $1\frac{3}{8}$ inch in diameter	set of 6, \$6 00; each 1 25
5475.	" " plain, without screw top, six sizes	" " 5 00; " 1 00
5476.*	" " improved, with screw top and in and outlet tubes for allowing a constant flow of either hot or cold water; same sizes as No. 5474	set of 6, \$8 50; each 1 50
5477.*	" " improved, self-retaining, with screw top for hot or cold water. The screw top is constructed in two parts, so that after inserting the dilator, the knob can be unscrewed to avoid any inconvenience to the patient, especially while lying down. For taking out, the knob can be easily replaced again. Four sizes, $\frac{7}{8}$ in. to $1\frac{3}{8}$ in. in diameter	set of 4, \$5 25; each 1 50
5479.*	" Weirick's, self-retaining, hard rubber, with tube through centre for flushing the bowel	set of 3, \$3 00; each 1 25
5480.*	" Young's, hard rubber, plain	set of 4 (sold in sets only) 3 00
5481.*	" " tubular, for flushing the rectum	" " " " 3 00

All instruments illustrated are designated by a *.

Rectal Instruments.

BOUGIES, COLON TUBES, ETC.



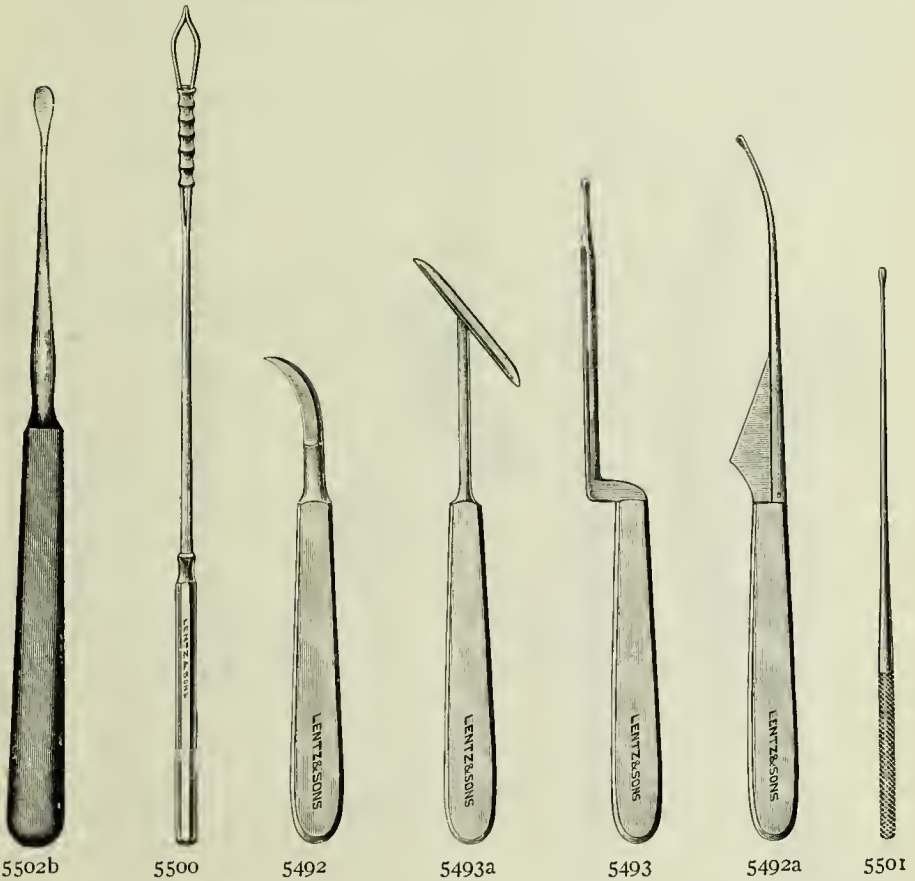
5483.*	Bougie, conical, gum elastic web, twelve sizes	each	\$0 90
5484.*	" cylindrical, " " " " " " " " " " " "	"	80
5485.*	" olivary, " " " " " " " " " " " "	"	90
5486.*	" " " Wales', soft rubber, " " " " " " " " " " " "	"	
	I to 5, each, \$1 50; 6 to 8, each, \$1 75; 9 to 12, " "	"	2 50
5487.*	Bougies, cylindrical, hard rubber, set of six sizes, nested		3 00
5488.*	Tube, gum elastic web, with funnel end, three sizes	each	1 25
5489.*	" soft rubber, thick walls, velvet finish " " 20 in. long	"	75
5490.*	" " " " " " " " " " " 30 in. "	"	90
5491.*	" " " extra thick walls, Langdon's, five feet long	"	2 00

For Rectal Electrodes, see Electrical Apparatus.

All instruments illustrated are designated by a *.

Rectal Instruments.

DR. COLLIER F. MARTIN'S OPERATING SET.



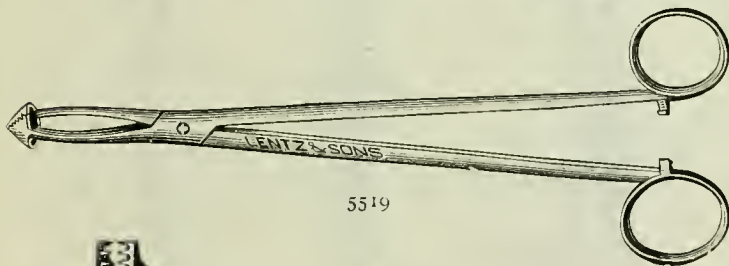
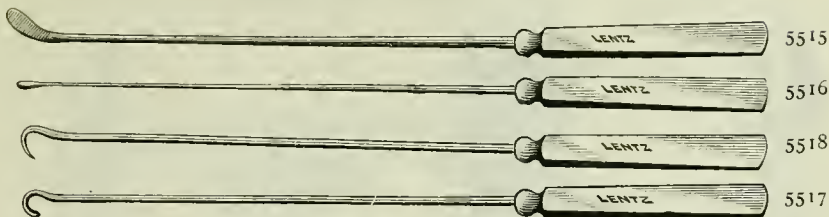
5492.*	Abscess Bistoury, Martin's, curved, sharp point	\$1 50
5492a.*	Fistula Knife, Martin's, long probe end	3 25
5493.*	Director, Martin's, operating, straight, probe end	2 00
5493a.*	“ “ angular, for internal fistula	2 50
5500.*	Cotton Applicator, Martin's, steel, long slide	75
5501.*	Probe, Martin's, steel	50
5502.	Fistula Hook, Martin's	1 25
5502a.	Crypt Knife, “	1 50
5502b.*	“ “ Brick's	1 50

5493b.	Director, Gant's, angular, for internal fistula	1 00
5493c.	“ Murray's modification of Gant's	1 00
5493d.	Tenaculum, Murray's, for blind fistula; three sizes	each 1 00

*All instruments illustrated are designated by a *.*

Rectal Instruments.

HEMORRHOIDAL FORCEPS, SCISSORS, ETC.



5515.*	Scoop, small, for the removal of feces	\$0 85
5516.*	Probe, silver	75
5517.*	Hook, blunt, Pratt's	60
5518.*	Tenaculum	60
5519.*	Forceps, artery, Pratt's, V-shaped	1 75
5520.	" " " T " short	1 25
5521.*	" " " curved	short, \$1 25; long 1 75
5522.	" Hemorrhoidal, Luer's, with catches	3 00
5523.	" " Gant's	3 50
5523a.	" " Pennington's, prism-shaped	2 00
5524.*	" " Haywood-Smith's, with catches	2 50
5525.*	" " Ashton's	2 75
5526.*	" " Tuttle's, latest	3 50
5527.	Scissors, Pratt's, latest pattern	1 75
5528.	" Kelly's, short serrated blades and angular-bent handles	2 50

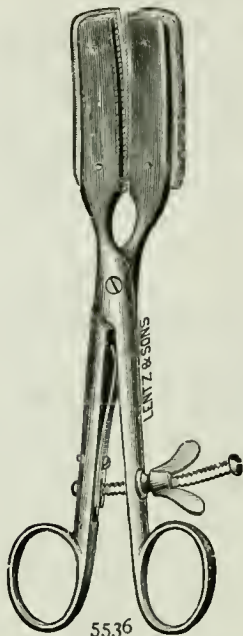
*All instruments illustrated are designated by a **

Rectal Instruments.

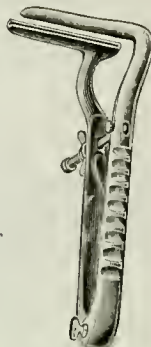
HEMORRHOIDAL CLAMPS.



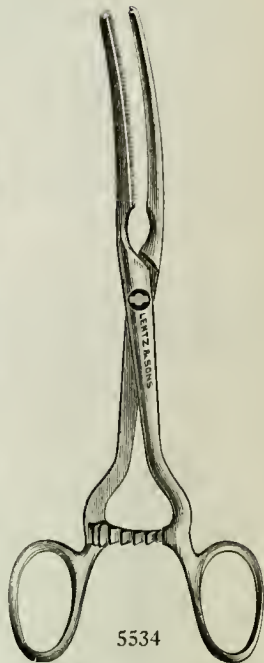
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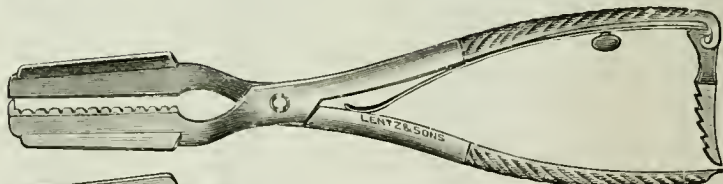
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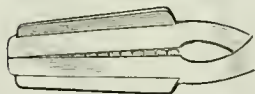
5537



5534



5530



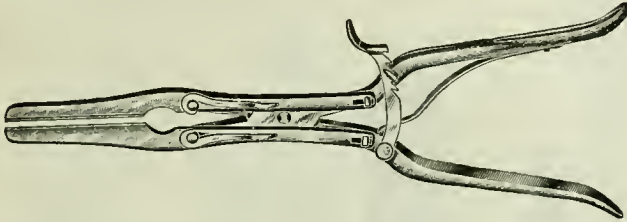
5531

5530.*	Hemorrhoidal Clamp, J. C. Brick's, best quality, forged steel	\$7 50
5531.*	“ “ “ Cook's, “ “ “ “	5 00
5532.*	“ “ “ Murray's, parallel blades. (See illustration on next page)	8 50
5533.	“ “ “ Earle's, small, angular	2 75
5534.*	“ “ “ Hawkins'	4 00
5535.*	“ “ “ Kelsey's	3 50
5536.*	“ “ “ Smith's, ivory faced	4 50
5537.*	“ “ “ Gant's, best quality, forged steel	4 50
5538.	“ “ “ Langenbeck's, ivory faced	5 00

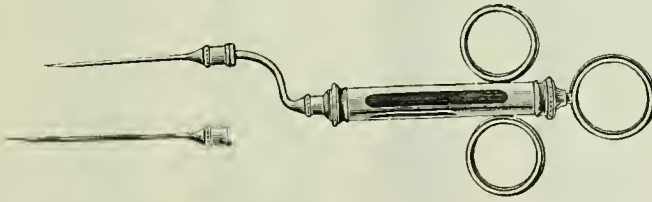
*All instruments illustrated are designated by a *.*

Rectal Instruments.

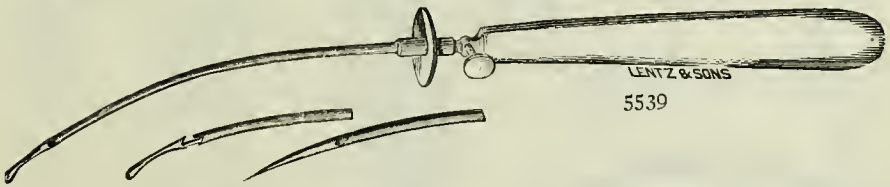
HEMORRHOIDAL SYRINGES, LIGATURE CARRIERS, ETC.



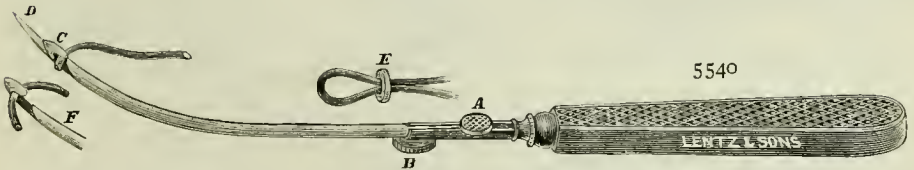
5532



5546



5539



5540

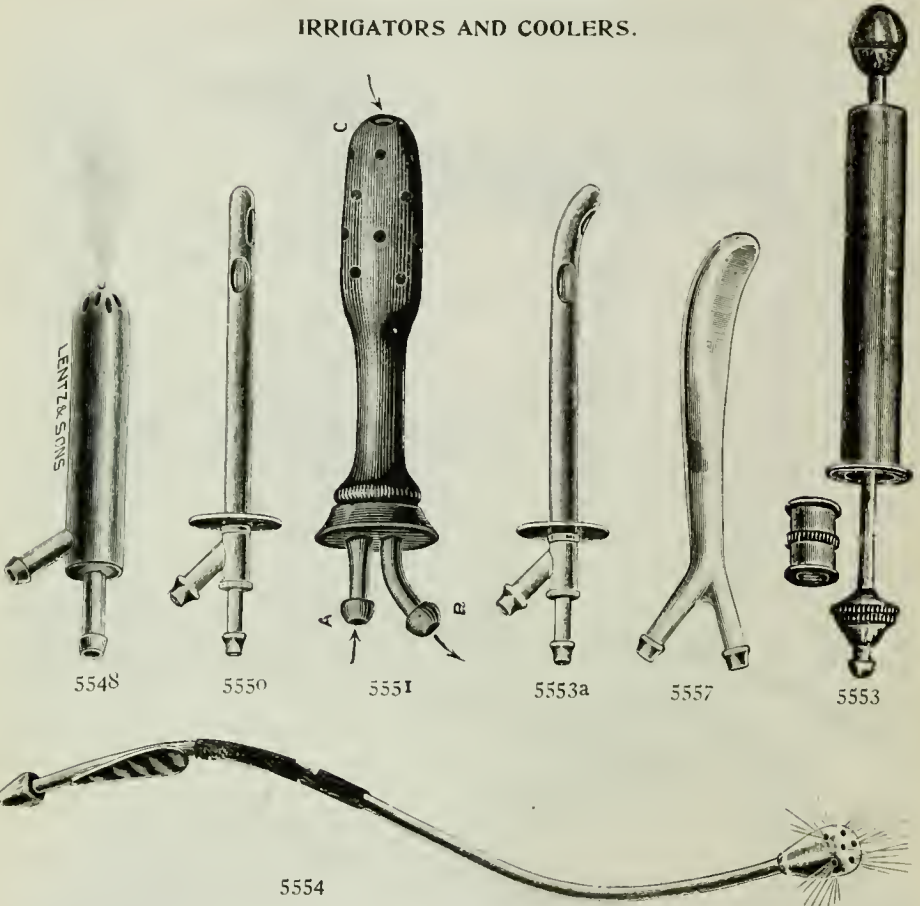
5539.*	Ligature Carrier, Allingham's	\$2 75
5540.*	" " Helmuth's	4 00
5541.	" Cord, elastic (solid rubber) per yard	15
5542.	Needle for Piles, Bush's, set of three, in one handle	2 75
5542a.	" " " De Garmo's, full curved per dozen	1 25
5543.	Cautery Irons, set of three, fitting into one handle	3 50
5544.	Rectal Valve Clip, Pennington's	2 50
5544a.	" " " Introducer, Pennington's	7 50
5545.	" " " Gant's	1 75
5545a.	" " " Introducer, Gant's	4 25
5546.*	Hemorrhoidal Syringe, Gant's, in case	3 00
5546a.	" " " J. Coles Brick's	2 50
5546b.	" " " Collier F. Martin's	1 50

For Thermo-Cauteries, see pages 389 and 390.

*All instruments illustrated are designated by a *.*

Rectal Instruments.

IRRIGATORS AND COOLERS.

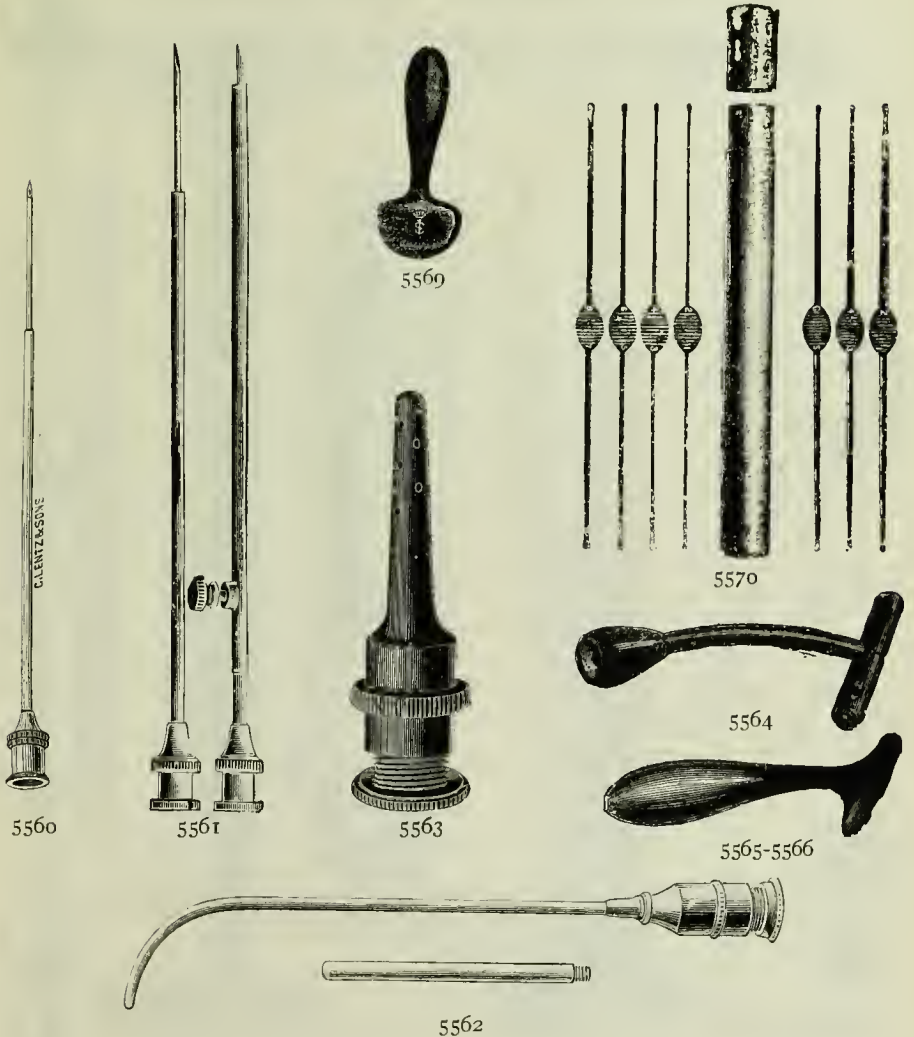


5547.	Irrigator, all metal, with small perforations through entire length of stem	\$1 75
5548.*	“ Martin’s improved, plated	1 25
5549.	“ Kemp’s, hard rubber, 3 sizes	each 1 35
5550.*	“ metal, plated, 3 sizes	“ 1 75
5551.*	“ Bodenhamer’s, hard rubber	1 50
5552.	“ metal, plated	2 25
5553.*	“ Jennison’s, “ “	1 25
5553a.*	“ Guiteras’, “ “	1 75
5554.*	“ Cole’s, sigmoid, “ “	90
5555.	Cooling or Heating Cone, Arzberger’s, plated straight, \$2 00; curved	3 00
5556.	“ “ “ “ Martin’s, plated	1 25
5557.*	“ “ “ “ Eissner’s	1 00
5558.	“ “ “ “ Wiener’s	1 75
5558a.	“ “ “ “ Kemp’s, glass	1 00
5559.	“ “ “ “ Chetwood’s, glass	60

*All instruments illustrated are designated by a *.*

Rectal Instruments.

PILE SUPPORTERS, HEMORRHOIDAL NEEDLES, PROBES.

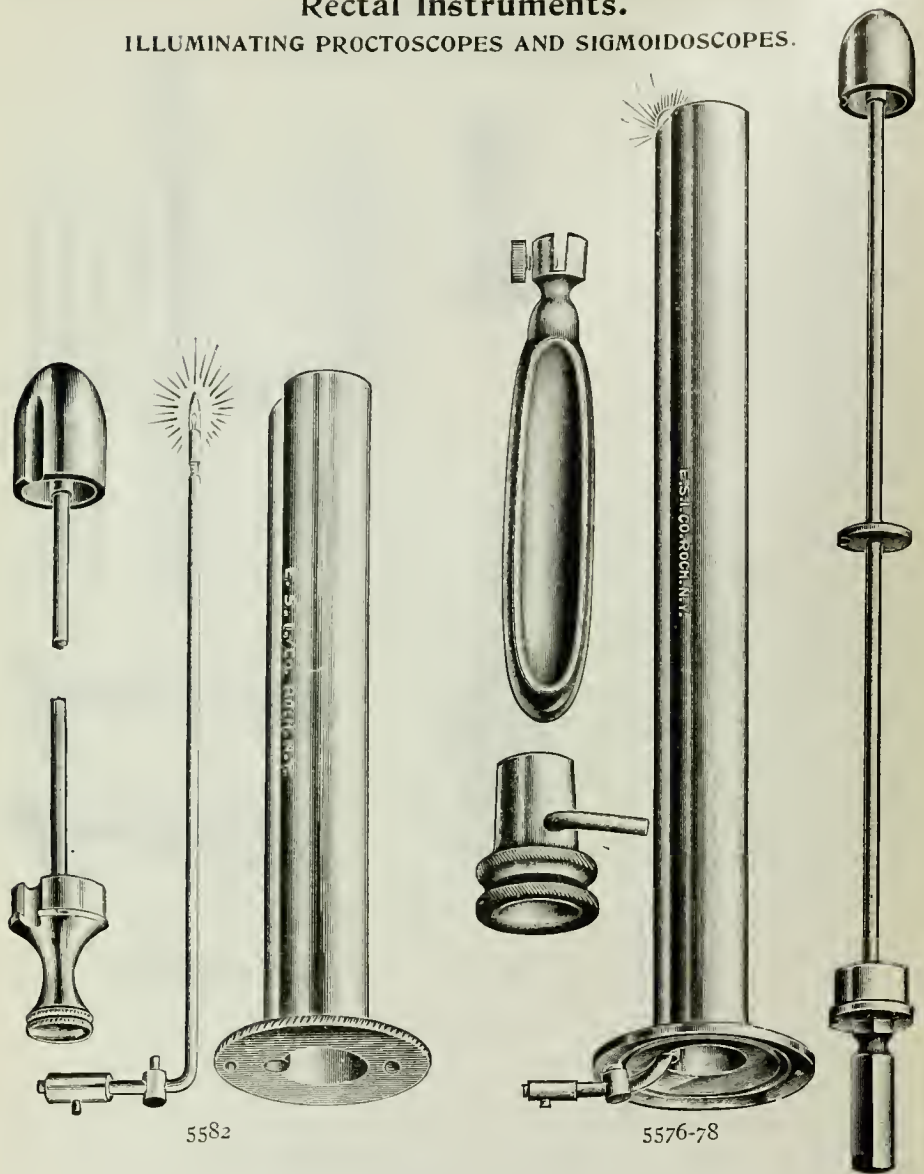


5560.*	Needle, Hemorrhoidal, to fit on hypodermic syringe	\$0 65
5561.*	“ “ improved, with set screw canula .	1 00
5562.*	“ “ Robbins', metal, for applying ointments to rectum or urethra	2 50
5563.*	Pile Pipe for applying ointments, hard rubber	60
5564.*	“ Supporter, Reed's, hard rubber	75
5565.*	“ “ Bolton's, “	75
5566.*	“ “ “ aluminum .	1 00
5567.*	“ “ Trosseau's, hard rubber	1 50
5569.*	“ “ hammer form, hard rubber	1 50
5570.*	Probes and Directors, Gant's, set of eight in case	4 50
5571.	Instillation Apparatus, Murphy's, for giving rectal infusions	3 50
5572.	“ “ Valentine's, “ “ “	6 00
5573.	Prolapsus Ani Supporter, hard rubber adjustable pad with fine padded waist band	†5 50

*All instruments illustrated are designated by a *.*

Rectal Instruments.

ILLUMINATING PROCTOSCOPES AND SIGMOIDOSCOPIES.



- 5576.* Proctoscope, Pneumatic, Tuttle's, size 57 F., four inches long, with obturator, light carrier, window, dilating bulbs and handle . . . \$14 00
- 5577.* Sigmoidoscope, Pneumatic, Tuttle's, size 57 F., ten inches long, with obturator, light carrier, window, dilating bulbs and handle . . . 16 00
- 5578.* Procto-Sigmoidoscope, Pneumatic, Tuttle's, Nos. 5576 and 5577, with one window, one pair dilating bulbs and one handle, \$25 00; in case . . . 29 50
- 5579. Sigmoidoscope, Tuttle's, with Mercier curve, complete . . . 18 00
- 5580. Proctoscope, Beach's, four inches long, 7/8 in. diam., with obturator and light carrier . . . 10 00
- 5581. Sigmoidoscope, Beach's, eight inches long, 1/2 in. diam., with obturator and light carrier . . . 10 00
- 5582.* Proctoscope. "E. S. I.," made in five sizes, Nos. 45, 50, 55, 60, 65 F., and in three lengths, 8, 15 and 20 c.m., each with obturator, \$4 50; with light carrier in addition . . . 6 75

For Batteries, see Electrical Section.

SECTION XIII.

Post Mortem and Dissecting Instruments.



5599



5590



5592



5598



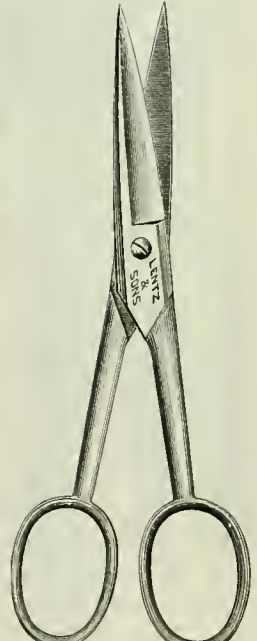
5597



5596



5600



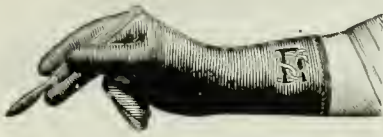
5601



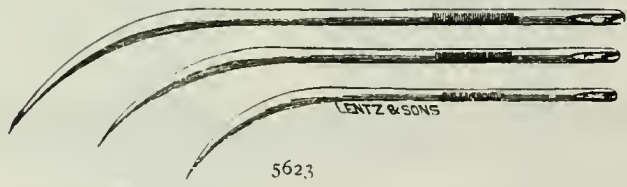
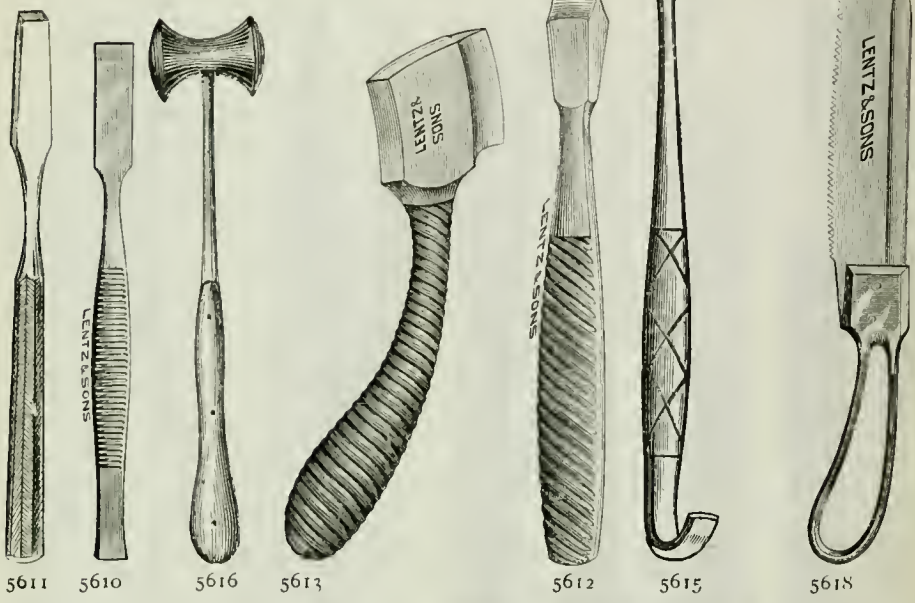
5589

5589.*	Scalpels, four sizes, all steel, keen edge		each	\$0 25
5590.*	" " " " " " " " " " " "	ebony handles	each, 40c.; all steel, nickel plated	60
5592.*	" " " " " " " " " " " "	large and heavy, ebony handles		85
5593.	Tenaculum, ebony handle		each, 40c.; large and heavy	65
5594.	Aneurism Needle, ebony handle, extra long			75
5595	Cartilage Knife, all steel			50
5596.*	" " " " " " " " " " " "	large, stout, with ebony handle	3 sizes, \$1 10 and	1 35
5597.*	" " " " " " " " " " " "	extra large, stout, with ebony handle,		
5598.*	" " " " " " " " " " " "	" " " " " " " " " " " "	4½-in. blade, \$2 00; 5-in. blade	2 25
5599.*	Brain " " " " " " " " " " " "	ebony handle	finger rest, ebony handle	2 50
5600.*	Forceps " " " " " " " " " " " "		single edge, \$2 00; double edge	2 25
5601.*	Scissors, straight		40c.; extra heavy, fine quality	60
5602.	" " " " " " " " " " " "	curved	4½ inches, plain, 35c.; " "	60
5603.	Grooved Director		4½ " " " " " " " "	90
5604.	Blow Pipe		steel, 50c.; extra long	65
5605.	Hooks and Chain		plain, 20c.; Hooks and Chain, heavy, Darling's	10
5606.	Brain Knife, Coplin's, single edge, graduated in inches and c. m.			75
5607.	Cartilage Knife, Virchow's, with ebony handle			4 75
5608.	Artery Scissors, with long probe-point			2 00
				1 25

Post Mortem and Dissecting Instruments.



5025

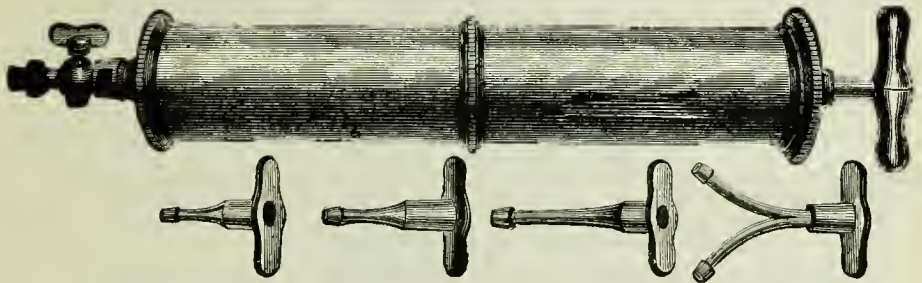


5623

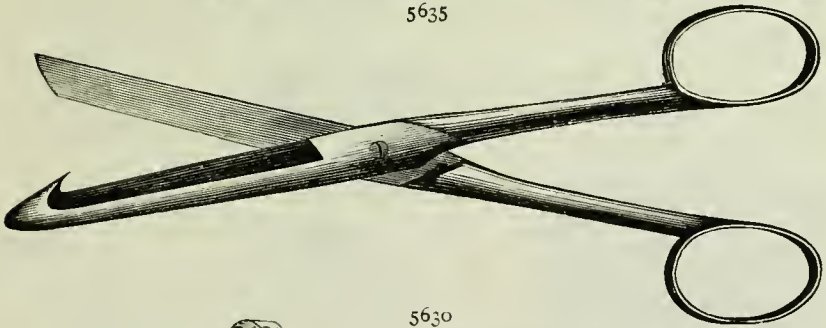
- 5609. Mylotome, Pick's, for spinal cord \$1 50
- 5609a. Chisel, Brunetti's, for opening the vertebræ, right and left each 2 50
- 5610.* " " plain, small, 50c.; large 90
- 5611.* " " octagon handle 75c.; " 1 25
- 5612.* Rachitome Chisel, for operating upon the spinal column 1 50
- 5613.* " " straight or curved, heavy 1 75
- 5614. Costotome " 1 50
- 5615.* Hammer, all steel small, \$1 50; large 1 75
- 5616.* " " lead filled, non-rebounding 1 75
- 5617. Saw and Knife, Finnell's, fitting in one handle 3 25
- 5618.* " " with movable back and fixed metal handle 8-inch blade 2 00
- 5619. " " " adjustable metal handle 8 " " 3 00
- 5620. Rachitome Saw, double 10 00
- 5621. Calvarian Hook 1 00
- 5622. Reamer 1 50
- 5623.* Needles, straight, half-curved or full-curved, 3 to 5½ inch each 15
- 5624. " " double-curved, extra long and heavy " 50
- 5625.* Gloves, dissecting, pure gum, fine quality, light. No. 6 to 10 per pair 85
- 5626. Finger Cots, extra fine per dozen 50

All instruments illustrated are designated by a *.

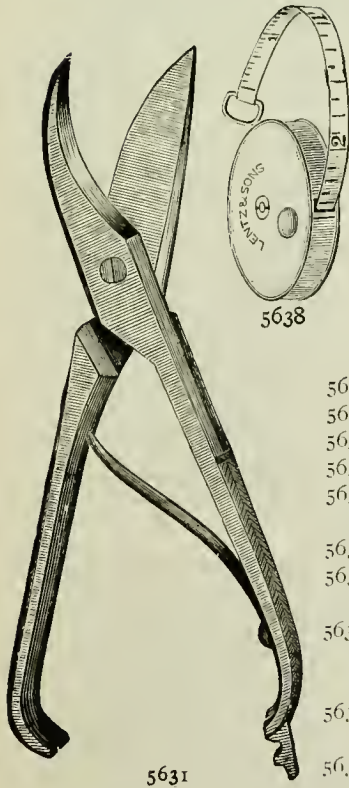
Post Mortem and Dissecting Instruments.



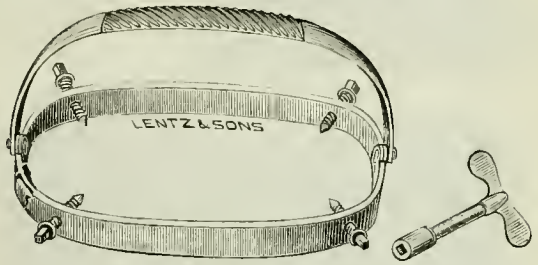
5635



5630



5638



5632

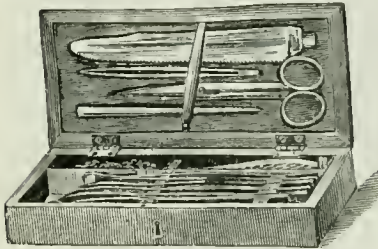
5631

5630.*	Enterotome Scissors	\$1 75
5630a.	" probe pointed	1 75
5631.*	Costotome, or rib shears	4 50
5636.	" with eccentric sliding blade	4 00
5632.*	Skull Clamp, for steadying the head while sawing	8 00
5637.	Calvarian Clamp, Satterthwaite's	5 00
5633	Tripod Head Rest, for steadying the head while sawing	2 50
5635.*	Injection Syringe, all metal, with three canula and stop-cock;	
	150 c.c., \$7 50; 250 c.c., \$9 00; 500 c.c.	15 00
5638.*	Tape Measure, steel, metric and inch scale	
	5 ft., \$1 10; 6 ft	1 30
5638a	Rule, brass, nickel-plated, 300 mm., with knob for holding	3 00

All instruments illustrated are designated by a *.

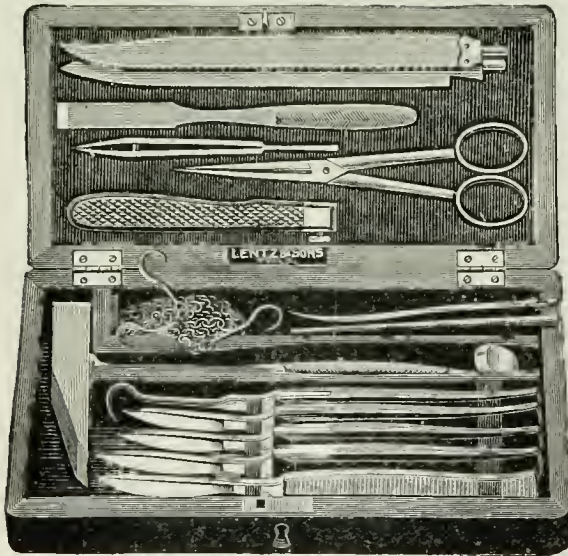
Post Mortem and Dissecting Instruments.

5639. **Dissecting Case, No. 1.**
 Contains two Scalpels; one Tenaculum; one Cartilage Knife; one Scissors; one Dissecting Forceps; one Blow-pipe; one pair Chain Hooks. In mahogany case, with ebony handles \$1 35
5640. **Dissecting Case, No. 2.**
 Contains three Scalpels; one Tenaculum; one Cartilage Knife; one Scissors; one Dissecting Forceps; one Blow-pipe; one pair Chain Hooks. In mahogany case, with ebony handles 1 60
5641. **Dissecting Case, No. 3.**
 Contains four Scalpels; one Tenaculum; one Cartilage Knife; one Scissors; one Dissecting Forceps; one pair Chain Hooks; one Blow-pipe. In mahogany case, with ebony handles 1 35
5642. **Post Mortem Case, No. 1.**
 Contains one Saw, movable back; three Scalpels, assorted; one Tenaculum; one Cartilage Knife, heavy; one pair Scissors; one Dissecting Forceps; one Director; one Blow-pipe; one pair Chain Hooks; one Chisel; one Mallet. In mahogany case 10 50
5643. **Post Mortem Case, No. 2.**
 Contains one Saw, movable back; four Scalpels, assorted; one Tenaculum; one Cartilage Knife; one pair Scissors; one pair Dissecting Forceps; one Euterotome; one Chisel; one Mallet; one Grooved Director; one Blow-pipe; one pair Chain Hooks; two large Needles and Thread. In mahogany case 15 00



5644

- 5644.* **Post Mortem Case, No. 3. Finnell's.**
 Contains one Finnell's Saw and Knife; three assorted Scalpels; one Tenaculum; one Plain Dissecting Forceps; one Scissors; one Chisel; one Blow-pipe; one set of Hooks and Chain; Needles and Thread. In a mahogany case \$10 00



5645

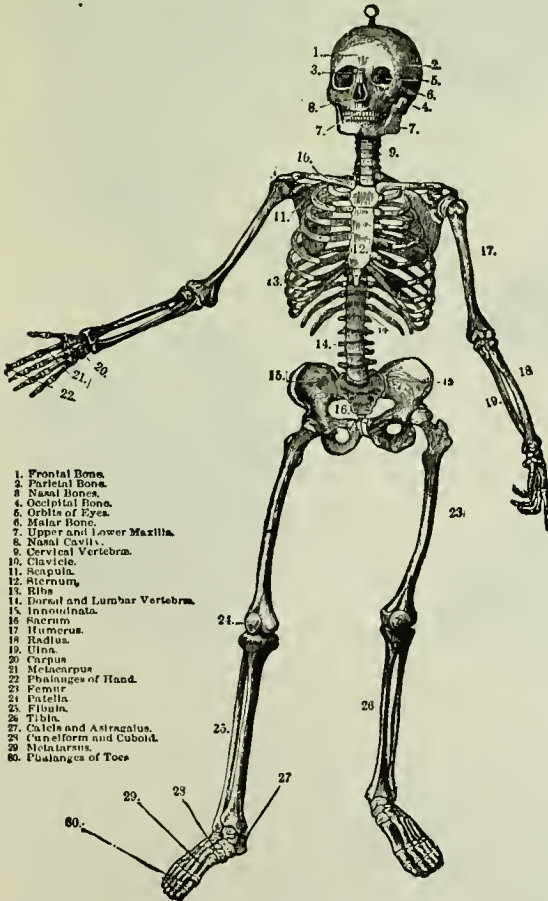
- 5645.* **Post Mortem Case, No. 4.**
 Contains Finnell's Saw and Knife to fit one Handle; three Scalpels; one Steel Handle Cartilage Knife; one pair Scissors; one Dissecting Forceps; one Tenaculum; one Mallet; one Chisel; one Blow-pipe; Chain and Hooks; Needles and Thread. In mahogany case, leather lined \$14 00

5646. **Post Mortem Case No. 5. Formad's.**
 Contains three Scalpels, heavy, assorted size; one Tenaculum, heavy; two Cartilage Knives, heavy; one Brain Knife; two Dissecting Forceps, regular and long; one Scissors; one Enterotome; one Grooved Director; one set of Three-chain Hooks; one Chisel; one Rachitome Chisel, curved handle; one Saw; one Hammer; one Costotome (Rib Shear); one Blow-pipe; half dozen Needles, assorted, and thread. In mahogany case, polished wood inside \$32 00

Human Osteology.

We carry in stock the best grade human skeletons, specially selected for medical practitioners, students and instructors. They are all *thoroughly degreased and deodorized*, well mounted and allowing free movements. The position is lifelike and correct.

They are assembled in several qualities, varying with the whiteness, quality of teeth, perfection of the turbinated and other delicate bones, mountings, etc., etc., but they are, even in the cheapest skeletons, of very good quality.



1. Frontal Bone.
2. Parietal Bone.
3. Nasal Bone.
4. Occipital Bone.
5. Orbit of Eye.
6. Malar Bone.
7. Upper and Lower Maxilla.
8. Nasal Cavity.
9. Cervical Vertebra.
10. Clavicle.
11. Scapula.
12. Sternum.
13. Ribs.
14. Dorsal and Lumbar Vertebra.
15. Innominate.
16. Sacrum.
17. Humerus.
18. Radius.
19. Ulna.
20. Carpus.
21. Metacarpus.
22. Phalanges of Hand.
23. Femur.
24. Patella.
25. Fibula.
26. Tibia.
27. Calcia and Astragalus.
28. Tarsiform and Cuboid.
29. Metatarsus.
30. Phalanges of Toes.

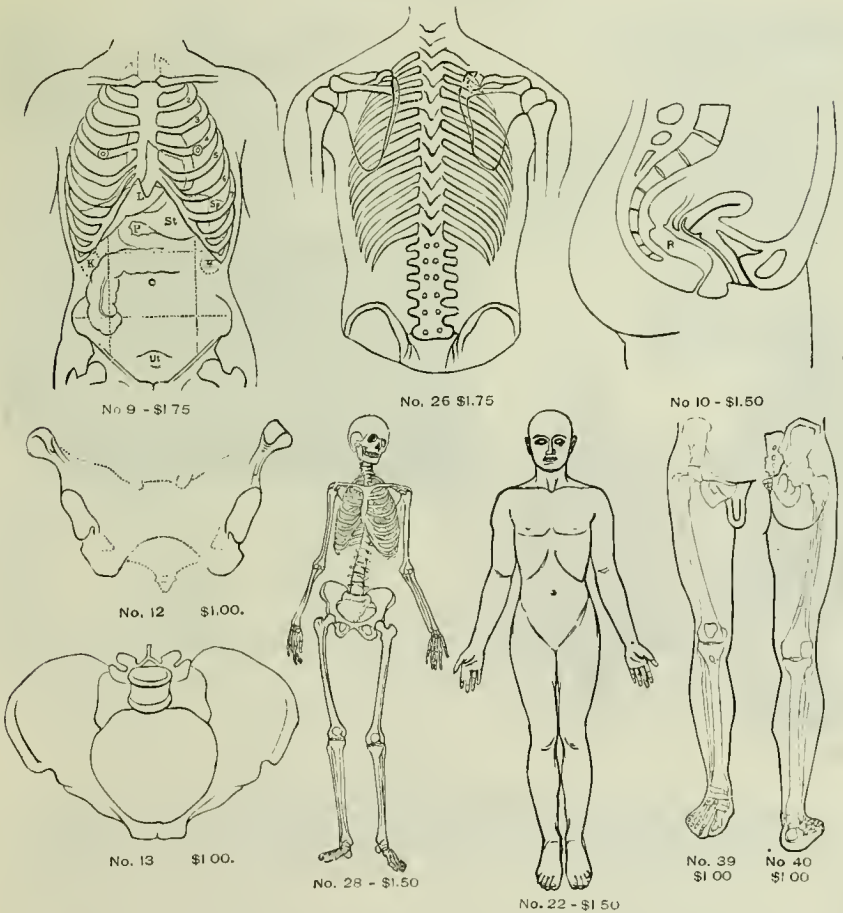
We can furnish anything in the line of osteological preparations and invite your inquiries. Large assortment in stock.

- 5650.* Skeleton, selected, with brass mountings; according to quality. . \$35 00 to \$60 00
- 5653. Half Skeleton, disarticulate, including skull, vertebral column on catgut, one scapula, one clavicle, with ribs, leg and arm of one side (hand and foot on catgut), in pine chest 24 00
- 5654. Skulls, adult, price varying according to quality of teeth, perfection of turbinated bones, etc., *thoroughly degreased and deodorized* . . . \$7 00 to 15 00
- 5655. Skull, adult, with horizontal cut, according to quality \$10 00 to 15 00
- 5656. Skull, adult, with horizontal and vertical section \$12 00 to 14 00

- 5657. Skull, adult, *very fine quality*, with 7 sections, temporal bones, dissected and removable, showing ossicles, semi-circular canals, etc. \$22 00 to 25 00
- 5658. " " disarticulate, in compartment pasteboard box . . 16 00 to 20 00
- 5659. " foetal 2 00 to 6 00
- 5660. Temporal Bones, with two sections, showing vestibule, cochlea, semi-circular canals and drum, with ossicles in position, very finest preparation 10 00
- 5661. Adult Female Pelvis, with femora and artificial ligaments . \$10 00 to 14 00
- 5662. Hand strung on catgut (detachable bones) 3 50 to 4 50
- 5663. Foot " " " " " 3 50 to 4 50

*All articles illustrated are designated by a *.*

Outline Stamps for Recording Cases.

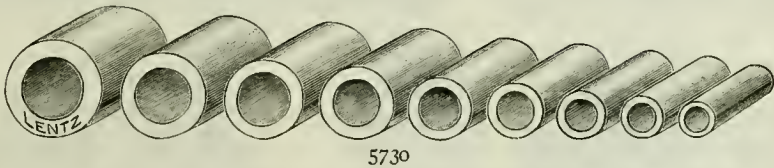
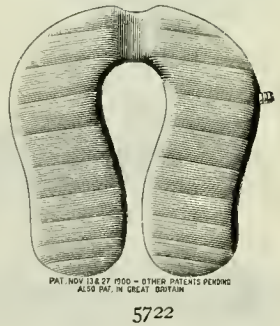
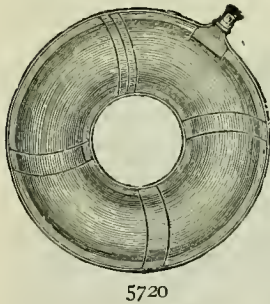
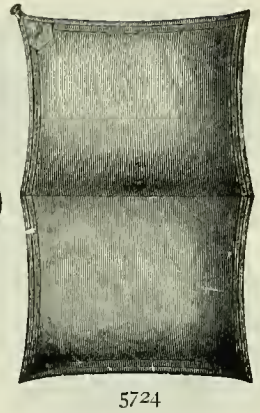
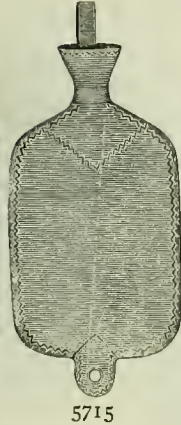


1. Nasal Passage, posterior	\$1 00	25. Thorax and Abdomen, anterior \$1 75
2. " " anterior	75	26.* " " " posterior I 75
5. Eye, right	75	27. Thorax, outlines of viscera I 25
6. " left.	75	28.* Entire Skeleton I 50
9.* Chest and Abdomen	I 75	33. Head, lateral 75
10.* Abdomen and Female Organs, sectional.	I 50	34. Thorax and Abdomen, lateral, right. I 50
11. " sectional, left	I 00	36. Thorax and Abdomen, lateral left I 50
24. " " right	I 00	35. Head, anterior 75
12.* Pelvis, sectional	I 00	37. Foot, external, right 75
13.* " anterior	I 00	41. " internal 75
14. Entire Nasal Passage, sectional I 00		38. " seen from below 50
16. Eye, sectional, side view	I 00	39.* Entire Right Leg, anterior I 00
18. Ear, entire organ, sectional I 50		40.* " " posterior I 00
22.* Entire Male Body, anterior I 50		42. " Arm, anterior I 00
23. " " posterior. I 50		43. " " posterior. I 00
Inking Pad	\$0 50	

We carry in stock a number of stamps not contained in the above list, and are prepared to furnish any special stamps which may be desired.

*All articles illustrated are designated by a *.*

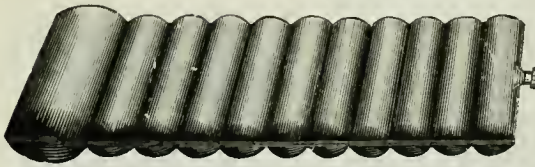
Rubber Goods. †



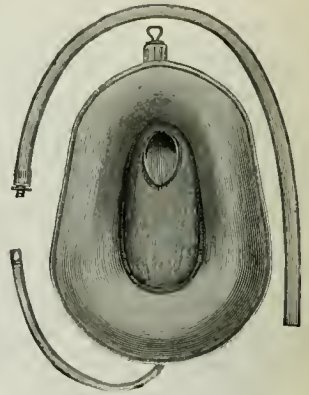
5715.*	Water Bottle, white, all rubber	2 qts., \$1.25; 3 qts.	\$1 40
5716.	“ “ maroon	2 qts., 1.50; 3 qts.	1 65
5717.	“ “ dark maroon, all rubber, extra fine, “Lentz Special”	2 qts., 1.80; 3 qts.	2 00
5718.*	“ “ maroon, all rubber, “Seamless”	2 qts.	2 50
5719.	“ “ “ cloth inserted	2 qts.	1 80
5720.*	Invalid Cushion, 10 in., \$2.25; 12 in., \$2.65; 14 in., \$2.90; 15 in., \$3.20; 16 in., \$3.50; 17 in., \$3.75; 18 in., \$4.00; 20 in.		4 40
5721.*	“ “ “Solid Comfort,”	13 in., \$4.00; 15 in., \$4.40; 17 in.	4 80
5722.*	“ “ horse shoe form	14 in., \$5.50; 16 in.	6 00
5723.	Chair Cushion, half round, 17½ in. wide, opening 6 in. diam.		5 75
5724.*	Air Pillow, 9 x 13 in., \$2.60; 10 x 16 in., \$3.25; 12 x 18 in., \$4.00; 14 x 23 in., \$5.00; 18 x 28 in.		6 00
5725.	Bulb Inflator for any of the above air goods		40
5726.*	Head Cap, pure gum, for surgeons and nurses		90
5730.*	Rubber Tubing; sizes stated are internal diameter; prices per foot:		
	⅛ in. ⅜ in. ¼ in. ⅝ in. ⅜ in. ½ in. ⅝ in.		
	White . . . . .	.07 .09 .11 .14 .17 .20 .25	
	Black . . . . .	.09 .14 .18 .25 .40 .60 .75	
	Maroon . . . . .	.09 .14 .18 .25 .40 .60 .75	

Prices Subject to Change Without Notice.

Rubber Goods. †



5741



5765

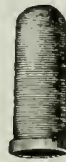


5761

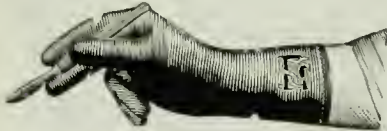


LENTZ & SONS

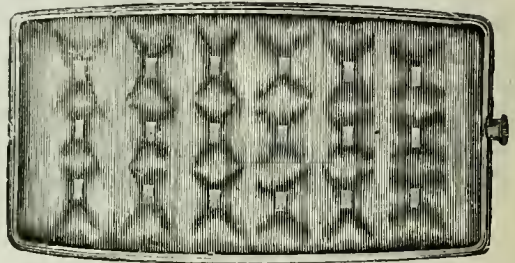
5762



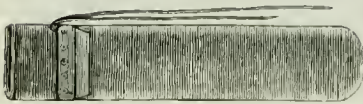
5794-5795



5793



5759



5786-5787



5789



5782

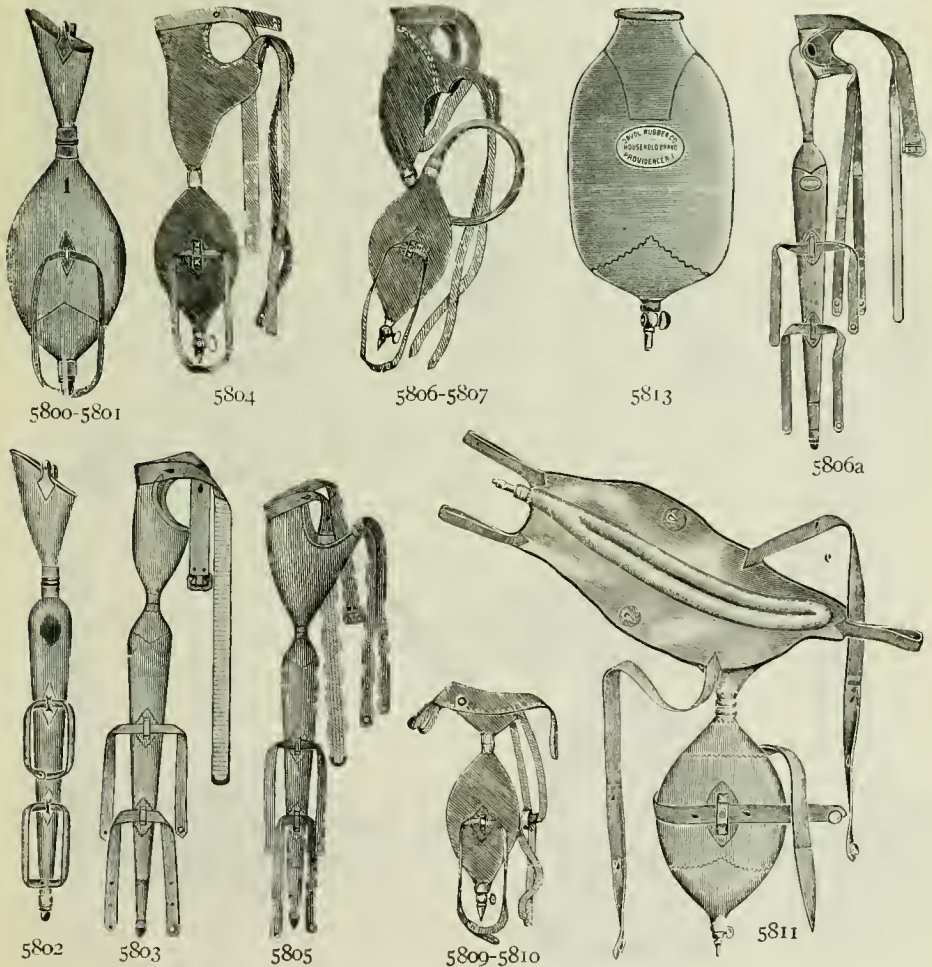
- 5741.* Air Bed, tan color silesia, with pump, 32 x 80 in., \$32.00; 42 x 80 in. . . \$40 00
- 5759.* Water Bed. 32 x 80 in., \$32.00; 42 x 80 in. 40 00
- 5760. Bed Pan, round, with inflating tube. 4 50
- 5761.* " " inflatable, Hampton's, 24 in. diameter. 9 00
- 5762.* " " oval, with inflating tube and outlet tube. 6 00
- 5765.* Bed and Douche Pan, combined, with inflating rim and extra large detachable outlet tube which allows solid matter to pass through it. 7 50
- 5782.* Ice or Water Cap, oval, pure gum, metal screw cap 2 00
- 5782.a " " maroon rubber, metal screw cap 1 50
- 5786.* Ice Bag, spinal, pure gum, 12 and 14 in., \$1.50; 16 and 18 in., \$1.75; 20 in. 2 00
- 5787.* " throat, " 8 inch., .80; 10 inch. 1 00
- 5789.* Water Coil, for head, pure gum 6 75
- 5790. " " abdomen, pure gum 6 75
- 5792. Gloves, half long, cloth lined per pair 2 25
- 5793.* " "Standard," pure gum, seamless, sizes No. 6 to 10 " " 1 00
- 5794.* Finger Cots, pure gum, thin per doz. 50
- 5795.* " " " " very thin, may be rolled up " " 35

Prices Subject to Change Without Notice.

All articles illustrated are designated by a *.

Rubber Goods. †

URINALS.



5800.*	Urinal, pure gum, day, male, small and medium	each	\$2 00
5801.*	" " " " " large		2 25
5802.*	" " " " " improved, with belt		2 50
5803.*	" " " " " improved, with belt		4 25
5804.*	" " " " " improved, with belt		4 25
5805.*	" " " " " and night, male, adult's, the middle tubing can be detached for day use		4 50
5806.*	" " " " " and night, male, adult's, the middle tubing can be detached for day use		5 50
5806a.*	" " " " " " " " child's		5 40
5807.*	" " " " " " " " child's		4 75
5808.	" " " " " female, adult's		2 50
5809.*	" " " " " female, adult's		4 25
5810.*	" " " " " child's		3 75
5811.*	" " " " " and night, female, latest pattern, with inflatable rim		5 50
5812.	Bulb for inflating rim of No. 5811 urinal, extra		50
5813.*	Urinal, pure gum, with stop cock, for travelers		2 00

Prices Subject to Change Without Notice.
 All articles illustrated are designated by a *.

Rubber Goods.†

VAGINAL SYRINGES AND IRRIGATORS.



5817



5818



5819



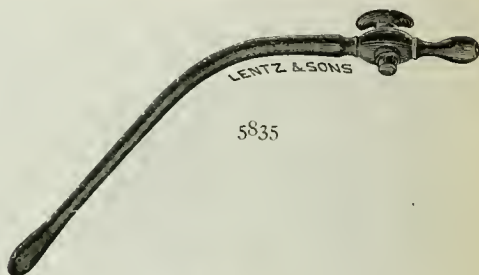
5836



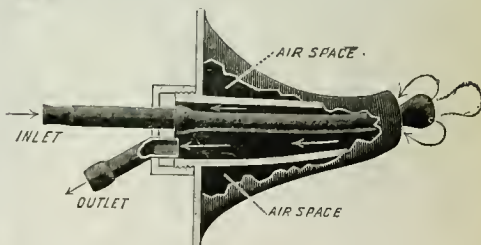
5816



5815



5835



5814

5814.* Vaginal Syringe, "Success," all hard rubber, with adjustable inflow tube.

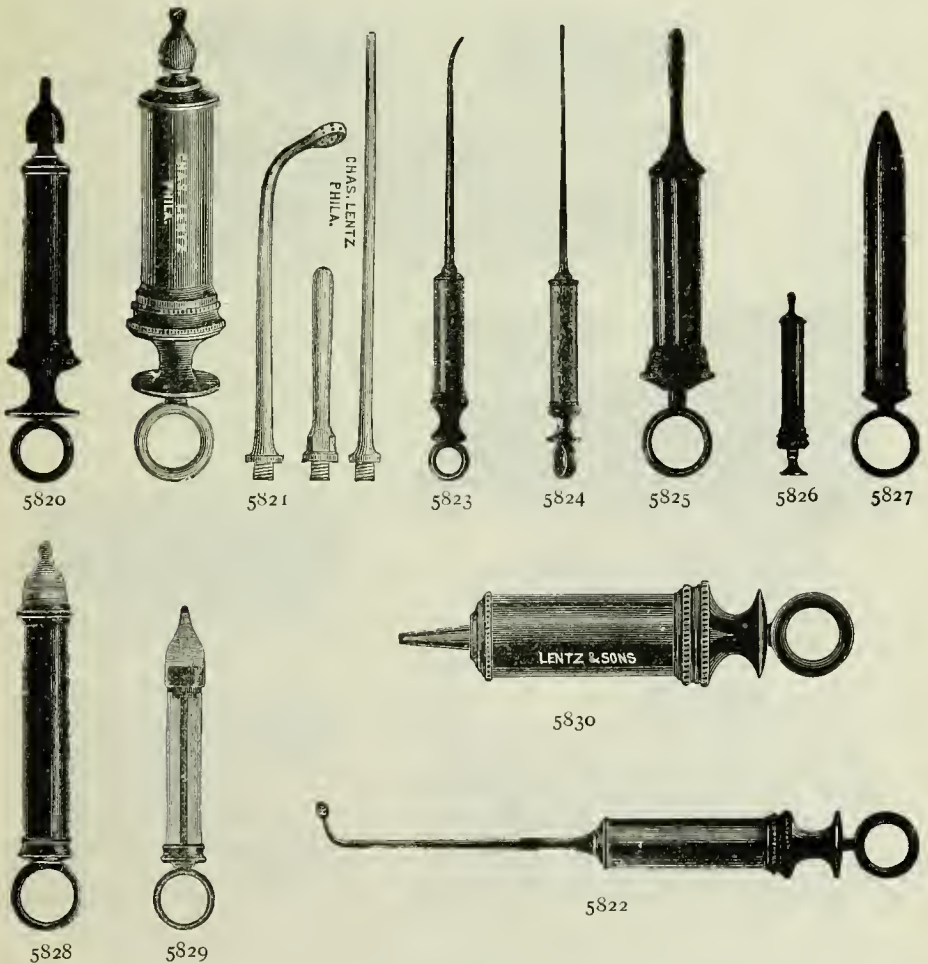
Easily introduced, and adapts itself perfectly; it can be taken apart for cleansing. Can be attached to any bulb or fountain syringe. Nozzle, as illustrated, with four feet of tubing for outlet . . .

5815.*	"	"	Molesworth's, hard rubber tube, No. 204	\$1 75
5816.*	"	"	"Whirlpool" Spray, hard rubber tube, No. 212	1 50
5817.*	"	"	Ladies', all rubber, No. 202	2 25
5818.*	"	"	Ladies', " improved, No. 203	1 00
5819.*	"	"	Ladies', with hard rubber rotary spray tip, No. 200	1 00
5834.	"	"	"Wonder," all rubber, with curved neck	1 50
5835.*	"	"	Nozzle, with stopcock, hard rubber	2 25
5836.*	"	"	" dilating, metal	75
				1 00

Prices Subject to Change Without Notice.

Rubber Goods. †

HARD RUBBER SYRINGES.

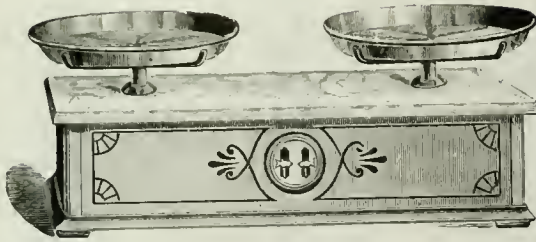


5820.*	Syringe, Hard Rubber Ear . . .	½ oz., 80c. ; 1 oz., \$1 00 ; 2 oz., \$1 30 ; 4 oz.	\$2 00
5821.*	“ “ “ Universal with ear, post-nasal, uterine and rectal points		2 15
5822.*	“ “ “ Post-nasal, ½ oz.		1 00
5823.*	“ “ “ Sinus, ½ oz., with small side holes, can also be used as a uterine syringe . . .		1 50
5824.*	“ “ “ Uterine, long tube . . .	½ oz., \$1 00 ; 1 oz., \$1 20 ; 2 oz.	1 50
5825.*	“ “ “ Rectal and enema . . .	¼ oz., 35c. ; ½ oz., 60c. ; 1 oz., 80c. ; 2 oz., \$1 10 ; 3 oz., \$1 25 ; 4 oz., \$1 40 ; 6 oz.	1 60
5826.*	“ “ “ Urethral, straight point, ⅓ oz.		30
5827.*	“ “ “ “ Sigismund’s, cone point, ¼ oz.		35
5828.*	“ “ “ “ soft rubber point, ½ oz.		75
5829.*	“ Glass, “ “ “ “ ¼ oz.		50
5830.*	“ Hard Rubber, conical point, for attaching soft rubber catheter, also for washing out wounds, 2 oz., \$1 75 ; 4 oz., \$2 00 ; 5 oz.		2 50

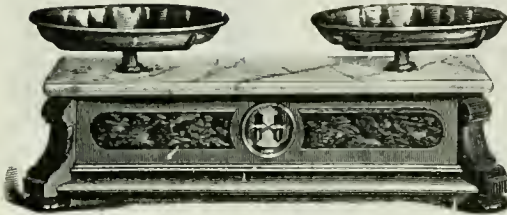
All articles illustrated are designated by a *.

SECTION XV.

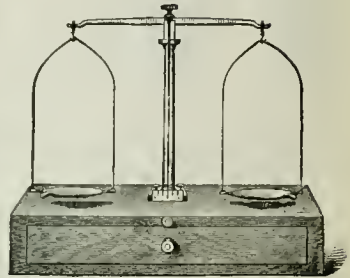
Scales.



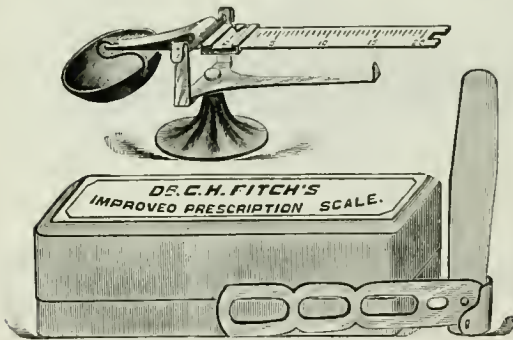
5900



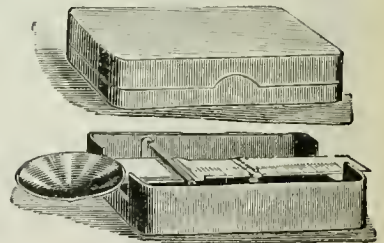
5901



5902



5904

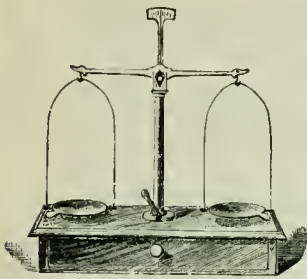


5903

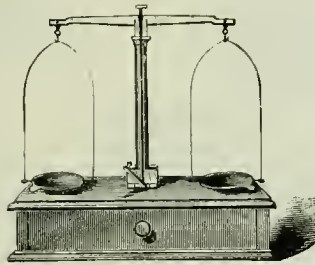
- 5900.* Scales, on cherry box, with neat hand carved decorations; heavy nickel-plated pans, glass dial and marble top. Diameter of pans 8 inches, capacity 20 lbs. A set of weights from 2 oz. to $\frac{1}{2}$ grain are included \$12 00
- 5901.* Scales, on fine oiled walnut box, with bird's-eye maple panels; hand carved feet, natural finish, heavy nickel-plated pans, marble top and a set of weights from 2 oz. to $\frac{1}{2}$ grain included. Made in three sizes:
- | | |
|--|-------|
| No. 0, diameter of pans, 7 inches; capacity, 10 pounds | 15 00 |
| " 1, " " 8 " " " 15 " " | 17 00 |
| " 2, " " 9 " " " 25 " " | 19 00 |
- 5902.* Scales, Prescription, mounted on a French polished mahogany box, with drawer. Scales of best construction, all lacquered, solid nickel pans, adjusting screws on beam, and a set of weights from 2 oz. to $\frac{1}{2}$ grain:
- | | |
|--|-------|
| No. 14, beam, $7\frac{3}{4}$ inches; pans, $2\frac{3}{4}$ inches | 11 00 |
| " 17, " $8\frac{3}{4}$ " " " $3\frac{3}{4}$ " " pan, $\frac{1}{2}$ inch deep | 15 00 |
- 5903.* Scales, Fitch's, for pocket, no weights required, size when closed, $2\frac{3}{4} \times 1\frac{1}{2}$ inches, with folding spatula 1 00
- 5904.* Scales, Fitch's improved, for pocket, no weights required, with folding spatula 1 00

*All articles illustrated are designated by a *.*

Scales.



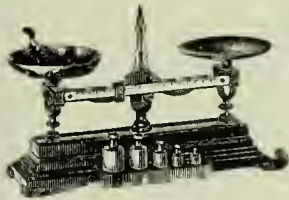
5906



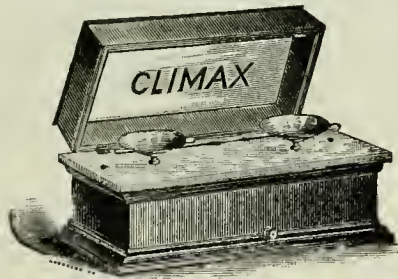
5907



5908



5910

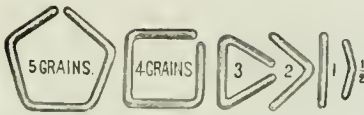


5911

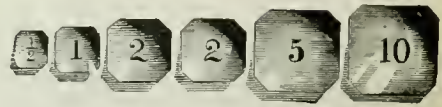
- 5906.* Scales, Army prescription pattern, on polished walnut box; scales take apart and pack away in drawer of box; a well finished and reliable scale, made in a mechanical way; well adapted for physicians' offices; a full set of weights are included. Made in three sizes.
- | | |
|---|---------|
| No. 0, beam, 8 in.; weights, 2 drachms to $\frac{1}{2}$ grain | \$ 6 00 |
| No. 1, " 7 " " " " " | 5 00 |
| No. 2, " $5\frac{3}{4}$ " " " " " | 3 50 |
- 5907.* Scales, Prescription, on polished walnut box with drawer. Scales have indicator pointing downward; slide attachment on needle; by shoving this to the right or left, scale is quickly balanced; has nickel-plated pans; entire scale lacquered; total height, $11\frac{1}{2}$ inches; a full set of weights are included. Diam. of pans, $2\frac{3}{4}$ in.; weights, 2 drachms to $\frac{1}{2}$ grain 8 00
- 5908.* Scales, English make, in oak box; steel beam, and weights; this is a strictly reliable scale in all respects. Beam, 6 in.; pans, $2\frac{1}{2}$ in. 1 50
- 5910.* Scales, Troemner's dispensing, handsomely finished scales for rough prescription work; has $3\frac{3}{4}$ -inch nickel-plated movable pans; a side-beam in front of scale with a sliding weight; this beam is divided into 120 divisions, each division representing one grain; an extra row of metric divisions is placed on bottom edge of beam, each representing one decigram. Platform or shelf is attached to base of scale in which are fitted a set of solid brass weights, 2 oz. and down. Scale sensible to a half grain. Diam. of pans, $3\frac{3}{4}$ in.; capacity, 4 oz. 8 00
- 5911.* Scales, Climax prescription. The scales have $2\frac{3}{4}$ -inch nickel-plated pans; cherry-mahogany box, and ebony mouldings; marble top; hinged cover; and is a reliable and substantial scale. A set of weights from 2 oz. to $\frac{1}{2}$ grain are included. Diam. of pans, $2\frac{3}{4}$ in. 12 50

*All articles illustrated are designated by a *.*

Weights for Scales, Etc.



5914



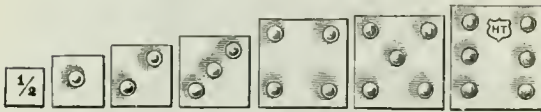
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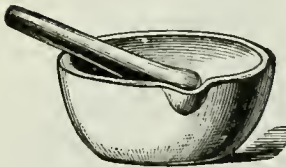
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5920



5918



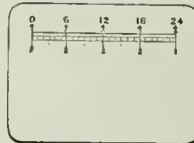
5922



5928



5929



5924

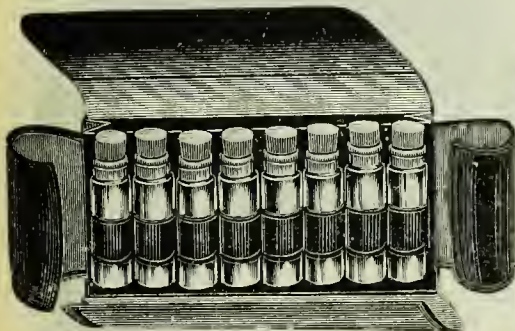


5926

5914.*	Weights, Aluminum, 1/2 to 5 grains	per set	\$0 25	
5915.	“ Metric, 1 centigram to 1 gram.	“	25	
5916.	“ “ I “ 10 gram.	“	50	
5917.*	“ Aluminum, 1/2 grain to 10 grains	“	40	
5918.*	“ Nickel Silver, square, 1/2 to 6 grains	“	10	
5919.*	“ 1/2 grain to 2 drachms	“	25	
5920.*	“ Troy, in block, 1/2 grain to 1 oz., per set, \$1 00; 1/2 gr. to 2 oz., \$1 75; 1/2 gr. to 5 oz.	2	50	
5921.	“ Metric, in block, 1 centigram to 20 gram., \$0 65; 1 centigram to 50 gram., \$1 10; 1 centigram to 100 gram.	1	60	
5922.*	Mortar and Pestle, porcelain, diameter 3 1/4 in., \$0 35; 3 3/4 in., \$0 45; 4 3/4 in., \$0 65; 5 1/2 in.	80		
5923.	“ “ glass, capacity 1 oz., \$0 30; 2 oz., \$0 35; 4 oz., \$0 40; 8 oz.	55		
5924.*	Tile for pills, engraved, plate glass, polished edges, 6 in., \$0 80; 8 in., \$1 20; 10 in.	1	60	
5925.	“ “ earthenware	6 in., \$0 55; 8 in., \$0 75; 10 in.	1	20
5926.*	Spatula, steel, wood handle, 3 in., \$0 25; 4 in., \$0 30; 5 in., \$0 35; 6 in., \$0 45; 8 in.	65		
5927.	“ steel, folding, for pocket, in aluminum handle	80		
5928.*	Graduates, minim, on foot, heavy base	60 minims, \$0 35; 120 min.	45	
5929.*	“ “ “ “ “ “	60 “ \$0 20; 120 “	30	

All articles illustrated are designated by a *.

Medicine Cases.



5937



5959

All our Pocket Medicine Cases are made of the best grade of black seal grain leather, leather lined, and have a pocket for powder papers and sundries.

Single Fold Pocket Medicine Cases.

5934.	Medicine Case, one row of 6 one drachm vials; size $3\frac{1}{2} \times 2\frac{1}{2} \times \frac{3}{4}$ in....	\$o 50
5935.	“ “ “ “ 8 two “ “ “ $6 \times 3 \times 1$ in....	90
5937.*	“ “ “ “ 8 four “ “ “ $7\frac{1}{4} \times 3\frac{3}{4} \times 1$ in....	1 50
5938.	“ “ “ “ 10 two “ “ “ $6\frac{1}{2} \times 3\frac{1}{4} \times \frac{3}{4}$ in....	1 75
5939.	“ “ “ “ 12 one “ “ “ $6 \times 2\frac{1}{2} \times \frac{5}{8}$ in....	1 50
5940.	“ “ “ “ 12 three “ “ “ $8 \times 3\frac{3}{4} \times \frac{3}{4}$ in....	2 50
5941.	“ “ “ “ 14 two “ “ “ $8 \times 3\frac{3}{4} \times \frac{3}{4}$ in....	2 50
5942.	“ “ “ “ 10-2 dr., 4-3 dr. “ “ $6\frac{3}{4} \times 4 \times 1$ in....	1 75
5943.	“ “ three rows, 15 $1\frac{1}{2}$ drachm “ “ $8 \times 3\frac{3}{4} \times \frac{1}{2}$ in....	2 50

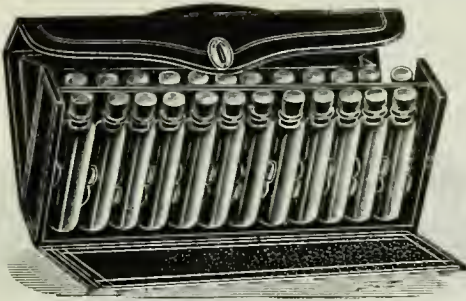
Two Fold Pocket Medicine Cases.

5956.	Medicine Case, (20 vials), two rows; 12 2-dr., 8 4-dr vials; size $7 \times 3 \times 1\frac{1}{2}$. . .	\$1 75
5957.	“ “ (20 vials), two rows; 12 $2\frac{1}{2}$ -dr., 8 6-dr. vials; size $8\frac{1}{2} \times 3\frac{1}{2} \times 2$	2 75
5958.	“ “ (24 vials), two rows; 14 $1\frac{1}{2}$ -dr., 10 3-dr. vials; size $7\frac{3}{4} \times 3\frac{1}{2} \times 1\frac{5}{8}$	2 50
5959.*	“ “ (24 vials), two rows; 2-dr. vials; size $7\frac{3}{8} \times 3\frac{3}{4} \times 1\frac{1}{4}$	2 75
5960.	“ “ (24 vials), two rows; 14 2-dr., 10 4-dr. vials; size $8\frac{1}{2} \times 3\frac{1}{2} \times 1\frac{7}{8}$	2 35
5961.	“ “ (28 vials), five rows; 18 $1\frac{1}{2}$ -dr., 10 4-dr. vials; size $7\frac{3}{4} \times 3\frac{1}{2} \times 1\frac{1}{2}$	2 25
5962.	“ “ (30 vials), two rows; 15 2-dr. vials in each row; size $7\frac{3}{4} \times 4 \times 1\frac{1}{2}$	2 75
5963.	“ “ (40 vials), three rows; 16 $1\frac{1}{2}$ -dr., 24 3-dr. vials; size $7\frac{3}{4} \times 3\frac{1}{2} \times 2$	2 50
5964.	“ “ (45 vials), three rows; 30 1-dr. short, 15 2-dr. long vials; size $7\frac{3}{4} \times 4 \times 1\frac{1}{4}$	3 00

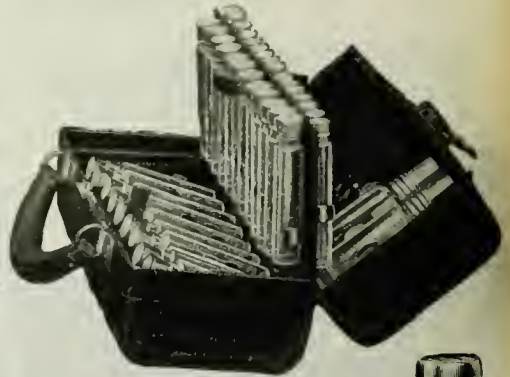
Any of the above cases can be furnished with screw cap vials at a slight advance.

5976.	Medicine Case, one row of 10 four dr. vials, with screw caps	\$1 75
5977.	“ “ “ “ 15 two “ “ “ “	2 65
5978.	“ “ (20 vials), two rows of four dr. vials, with screw caps . . .	3 00
5979.	“ “ (24 vials), two rows; 10 four dr. and 14 two dr. vials, with screw caps	3 25
5980.	“ “ (30 vials), two rows of 15 two dr. vials, with screw caps . . .	3 00

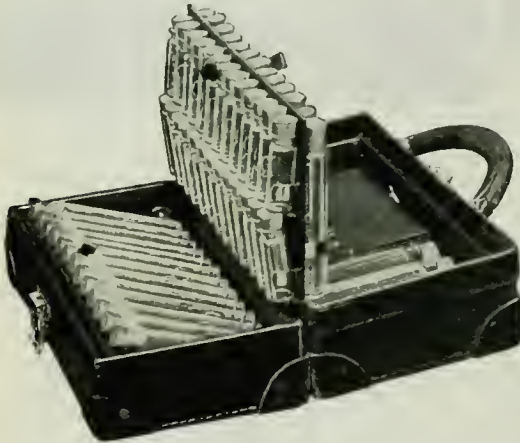
Medicine Cases.



5982



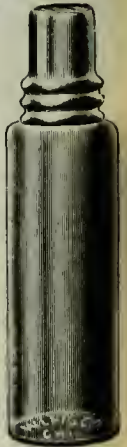
6004



6006



6003



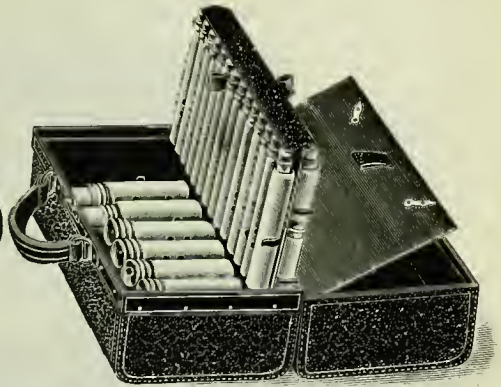
6030

- | | | |
|--------|--|--------|
| 5982.* | Hand Medicine Case, 24 vials, solid sole leather, containing all four dr. vials; size 10 x 4½ x 2 in. | \$5 50 |
| 5999. | Hand Medicine Case, 48 vials, solid sole leather, containing 10 six dr., 8 four dr., 30 two and one-half dr. vials, a case for hypodermic syringe and a graduated minim measure; size 9½ x 4½ x 3¾ in. Choice of screw-cap or cork-stoppered vials | 6 25 |
| 6002. | Hand Medicine Case, 43 vials, solid sole leather, containing 20 one oz. vials, 20 three dr. vials, 3 one and one-half oz. glass-stoppered, metal-cap bottles. and space 5¼ x 4¼ x 1 in. for sundries; size 9½ x 5½ x 4½ in. | 7 50 |
| 6003.* | Hand Medicine Case, 32 vials, solid sole leather, hand stitched, containing 28 four dr. vials and 4 one and one-half oz. glass-stoppered, metal-cap bottles; also space for sundries; size 11 x 4¾ x 3¼ in. | 9 00 |
| 6004.* | Buggy Medicine Case, 41 vials, solid sole leather, no metal hinges, containing 16 three dr., 12 four dr., 10 one oz. vials and 3 one and one-half oz. glass-stoppered, metal-cap bottles; also space for sundries; size 10½ x 5 x 4½ in. | 8 00 |
| 6005. | Buggy Medicine Case, 56 vials, solid sole leather, smooth or walrus grain, containing 26 one oz. vials, 26 three dr. vials and 4 one and one-half oz. glass-stoppered, metal-cap bottles; also space for sundries; size 11½ x 5½ x 4½ in. | 10 50 |
| 6006.* | Buggy Medicine Case, 56 vials, sole-leather covering, hand stitched over wooden frame, corners protected by heavy leather tips, very strong, containing 26 one oz. vials, 26 three dr. vials and 4 two and one-half oz. wide-mouth bottles; also space for sundries; size 12 x 6¼ x 5¼ in. | 10 00 |
| 6030.* | Safety Bottles, with glass stoppers and metal screw caps; for acids, iodine, etc. 1, 1½ or 2 oz., 25c.; 4 oz., 30c.; 6 oz., 35c.; 8 oz. | 40 |

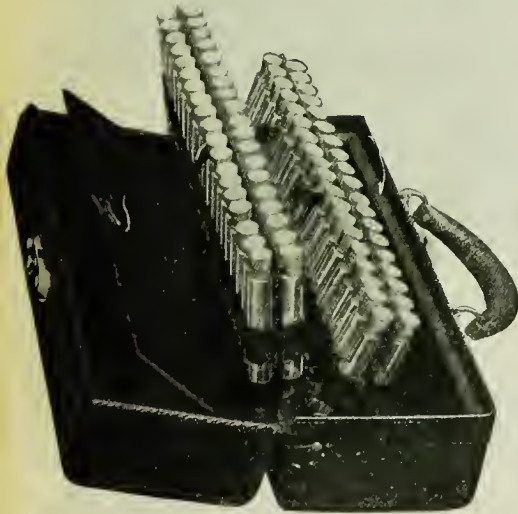
Medicine Cases.



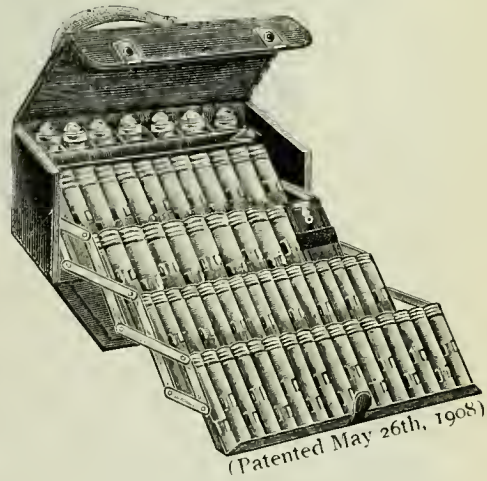
6014



6029



6031



6032

(Patented May 26th, 1908)

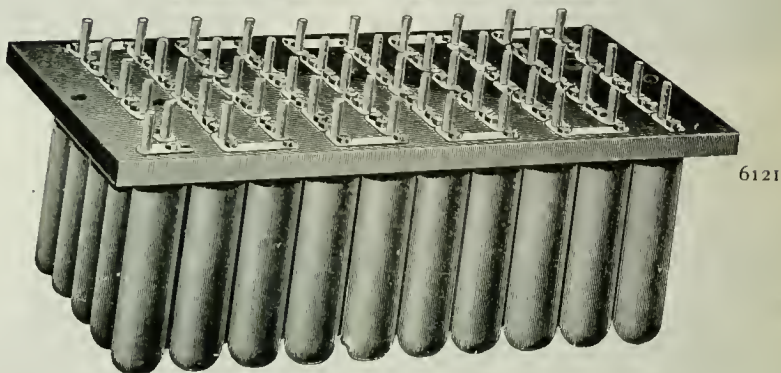
- 6014.* Buggy Medicine Case, 43 vials, heavy black waterproof leather; containing 20 three-dr. vials, 20 one-oz. vials, 3 three-oz. bottles and space for sundries; size, 9 x 6 x 5 in. \$6 50
- 6019. " " " 55 vials, heavy black grained, waterproof leather; containing 24 three-dr. vials, 24 one-oz. vials, 3 three-oz. bottles and 4 two-oz. glass stoppered metal cap bottles, also large space for sundries; size, 11 x 6½ x 5¾ in. 6 75
- 6029.* " " " 50 vials, heavy black grained leather; containing 28 three-dr. vials, 14 one-oz. vials, 4 two-oz. screw-cap jars, 4 two-oz. glass stoppered metal cap bottles, also large space for sundries; size, 12½ x 6½ x 6½ in. 8 25
- 6031.* Combination Buggy and Satchel Medicine Case, finest seal grain stiff cowhide, hand stitched; containing 76 three-dr. vials, also space 13½ x 4¼ x 1½ in. for sundries; size, 14½ x 5¼ x 5¼ in. 12 00
- 6032.* Buggy Medicine Case (patented); 60 vials, heavy black sole leather, all edges hand stitched; containing 21 six-dr. vials, 32 one-oz. corked or screw cap vials and 7 one-and-a-half-oz. metal screw cap bottles, space for hypodermic syringe and pocket; size, 11½ x 6¼ x 5 in. 12 50

This case is so arranged that the vials and leaves to which they are attached can be extended as illustrated, they being attached to extension brackets at sides, thereby bringing all vials and labels into full view.

SECTION XVI.

Electrical Apparatus.

CHLORIDE OF SILVER DRY CELL BATTERIES.



6120.* Faradic Dry Cell.

The illustration shows a group of four Chloride of Silver Interchangeable Faradic Dry Cells, attached to a hard rubber plate, as used in the larger Faradic Batteries. Some batteries require but one cell to operate them, while others, having different coils, require more. The life of these cells is to be measured only by the actual work they perform—averaging in the small batteries 40 hours, in the large ones 100 hours—and there being no waste when not in use, they are most economical to maintain. As the cells when exhausted can be renewed for 75 cents each, the cost of operating one is practically only three-quarters of a cent per hour. They are so simply arranged and connected that exhausted cells can easily be removed and new ones quickly inserted.

Cost of New Faradic Cells	each \$2 00
Cost of Restoring Exhausted Faradic Cells	" 75

6121.* Galvanic Dry Cell.

The illustration shows a series of Galvanic Interchangeable Dry Cells, which are beyond a doubt the most compact and convenient cells on the market. They are also the cleanest and most efficient cells ever offered to the profession. For a long time the foremost Electro-Therapeutists have recognized that for medical work it is not desirable to have a cell producing too high a current, as such a current is dangerous in certain kinds of work; but what is most desirable is a current of sufficient strength that shall at the same time have the element of constancy. The Chloride of Silver Dry Cells produce the only current that is perfectly constant.

In order to get sufficient pressure it is frequently necessary to have a large number of cells in a physician's battery, and as most practitioners desire to have a portable apparatus, a compact arrangement of the cells is absolutely necessary. These cells are so small and light that a group of fifty or more, as illustrated, can be arranged in a battery which weighs so little that a child can easily carry it. Exhausted cells may be readily replaced by new ones, and without the return of the battery. Any one cell will always fit into the place from which another has been removed. Our method of renewing battery cells is to give entirely new cells in exchange for exhausted ones, and as the silver elements in exhausted cells have a certain value, in making exchanges we charge only one-third the regular price of new cells.

Cost of New Galvanic Cells	each \$0 90
Cost of Restoring Exhausted Galvanic Cells	" 30

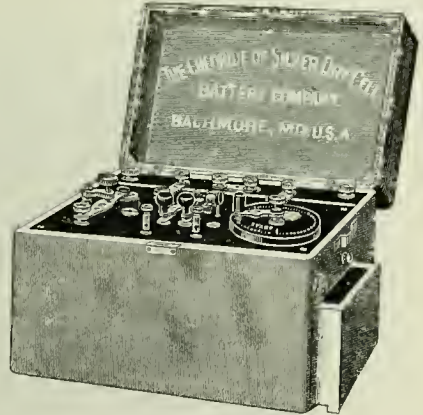
Special Catalogue on Application.

Electrical Apparatus.

CHLORIDE OF SILVER DRY CELL FARADIC BATTERIES.



6123



6125

6123.* Pocket Faradic Battery No. 7, two cells \$10 00

Restoring Exhausted Cells, 75 cents each. (Postage, 13 cents.)

The two cells will yield 100 hours of actual work, at a cost of operating of only 1½ cents per hour.

This instrument is put up in a handsomely finished mahogany case, furnished with a pair each of conducting cords, nickel-plated electrodes, ebonized wood handles and flannel-covered carbon electrodes. The induction coil, giving three currents—primary, secondary and combined—is of superior make and finish, and has no equal in the uniformity and smoothness of its current.

6124. Pocket Faradic Battery No. 7A, one cell \$6 50

Restoring Exhausted Cell, 75 cents. (Postage, 7 cents.)

The life of the cell is 40 hours of actual work.

Owing to the care with which this battery is made, the currents are perfectly smooth. It will furnish a primary, a secondary or a combined current, as desired. All three of the currents can be modified to suit the most delicate child, and can be increased to meet the requirements of an adult. The apparatus is provided with a pair each of conducting cords, handsome nickel-plated electrodes and ebonized handles.

6125.* Upright Faradic Battery No. 6, with two cells, with Circular Willms' Current Controller \$15 00

Restoring Exhausted Cells, 75 cents each. (Postage, 13 cents.)

The life of the two cells is 100 hours of actual work.

This battery is furnished in a handsomely finished mahogany case, presenting an elegant appearance, all the metal parts being heavily nickel plated.

It gives three currents: the primary (or so-called direct) current, the secondary (or induced) current, and a combination of the primary and secondary currents. A roomy compartment is provided in the lower part of the battery case, containing a pair each of insulated handles, sponge electrodes, nickel-plated electrodes and silk-covered conducting cords.

The current in this battery is graduated by means of the Willms' Current Controller; with its aid the current can be administered so mildly as to be scarcely perceptible to the most nervous or delicate person, and can be increased so gradually and evenly that no shock will be given.

Full directions accompany each battery.

In the Chloride of Silver Dry Cell there is no waste when not in use.

The current remains uniform during the whole life of the cell.

Special Catalogue on Application.

Electrical Apparatus.

CHLORIDE OF SILVER DRY CELL FARADIC BATTERIES.



6126

6126.* "Compact" Faradic Battery No. 20, four cells, with Circular Willms' Current Controller \$18 00

Restoring Exhausted Faradic Cells, 75c each.

Similar to No. 7, but with four cells, yielding twice the strength of current, and with the addition of the circular controller, which insures a very gradual increase without the slightest shock. The outfit includes a pair each of nickel plated electrodes, best quality sponge electrodes, ebonized wood handles and silk covered conducting cords.

6127. "Satchel" Faradic Battery No. 4, four cells, with large size Willms' Current Controller \$25 00

Restoring Exhausted Faradic Cells, 75c each.

In this battery four coils are supplied—a primary and *three* secondaries—the third secondary being extremely high tension, capable of glowing a Geissler tube. Two sets of switches control these coils, placing seven distinct currents at the disposal of the operator. There are also provided a Current Reverser, which permits the change of polarity without removing the electrodes from the patient; a Contact Breaker, very useful for diagnostic purposes and in paralysis, and the usual accessories.

Full directions accompany each battery.

In the Chloride of Silver Dry Cell there is no waste when not in use.

The current remains uniform during the whole life of the cell.

Special Catalogue on Application.

*All instruments illustrated are designated by a *.*

Electrical Apparatus.

CHLORIDE OF SILVER FARADIC BATTERIES.



6132

6132.* Faradic Battery No. 8, four cells, with Willms' Current Controller . \$35.00

This Battery embodies in its compact form every device that has proven successful in faradization.

The four cells are connected with a selecting switch, permitting the use of either two, three, or all four cells. The coil embraces a primary and *four* secondaries, which, through the medium of switches, can be used either singly or in combination, placing nine different currents in command. The fourth secondary is wound for extra high tension, capable of illuminating an eight-inch Geissler tube. In addition to the rapid interrupter, this battery is fitted with a Slow Interrupter, which, when set, permits of the automatical interruption of the current any desired number of times per minute.

Above outfit includes further a Current Reverser for changing the polarity without removing the electrodes from the patient, a Contact Breaker, very useful for diagnostic purposes and in paralysis, and these accessories: one pair best quality sponge electrodes, one ebonized plain handle, one ebonized interrupting handle, one pair silk-covered conducting cords. The Willms' Controller is of the large size, offering a larger range of control.

6130. Faradic Battery No. 9, four cells, with Willms' Current Controller . \$25.00

Quite similar to No. 8. Does not have the slow interrupter. The coils consist of a primary and *three* secondaries, the third secondary being very high tension, capable of glowing a Geissler tube. Two sets of switches control the coils, yielding seven distinct currents.

6128. Faradic Battery No. 14, four cells, with Willms' Current Controller . \$20.00

Similar to No. 8. Does not have the slow interrupter. The Willms' Controller is of smaller size. The coils consist of a primary and *two* secondaries, placing five individual currents at disposal by ready adjustment of switches.

Special Catalogue on Application.

Electrical Apparatus.

CHLORIDE OF SILVER DRY CELL GALVANIC BATTERIES.



6135



6137

135.* Galvanic Battery No. 3.

6-cells . . .	4½x4½x5½ in.; weight, 2¼ lbs. . . .	\$10 00
12-cells . . .	5½x5½x5½ in.; " 3½ lbs. . . .	15 00
16-cells . . .	6¾x5½x5½ in.; " 4 lbs. . . .	20 00

Intended for physicians' and family use in the treatment of cases requiring a small amount of current, and will be found of sufficient strength for work about the head, for the electrolysis of small growths, the removal of superfluous hair, treatment of strictures of the urethra, etc. The cells are arranged in series, so that any desired number may be used. The following accessories are included: one pair of conducting cords, one pair of sponge electrodes, and a nut-wrench for removing cells.

6137.* Galvanic Battery No. 1.

	Compactness.	Weight.
24-cells . . .	10½x5¼x7½ in. . . .	8 lbs. . . . \$27 00
32-cells . . .	10½x5¼x7½ in. . . .	8¾ lbs. . . . 35 00
50-cells . . .	11½x6½x7½ in. . . .	10¼ lbs. . . . 50 00
60-cells . . .	13 x6½x7½ in. . . .	14 lbs. . . . 60 00
84-cells . . .	13¾x9 x7½ in. . . .	18¼ lbs. . . . 82 00
100-cells . . .	13¾x9 x7½ in. . . .	20 lbs. . . . 95 00

This Battery is provided with a Current Reverser, a Water Rheostat to regulate the strength of the current, and a pair of Cell-Selecting Cords which allow the use of any number of cells desired, leaving the remaining cells inactive.

A tray fitting within the box top and a drawer are intended for holding cords and electrodes. The following accessories are included: a pair of silk covered conducting cords, a pair of best quality sponge electrodes, ebonized plain handle, one ebonized interrupting handle, a nut-wrench for removing cells, a screw-driver and nickel-plated plugs for testing cells.

While a 24-Cell Battery will furnish sufficient strength of current for acute cases, we would recommend the acquisition of a 32-cell, or preferably a 50-cell Battery, which are, more especially the latter, strong enough for any ordinary cases the general practitioner comes in contact with. The large number of cells are necessary for Specialists, Hospitals and Sanitaria.

In every detail these instruments are made in the very best manner, and possess every quality required in a first-class battery.

Based on the average resistance offered by the human body in ordinary work, generally conceded to be three thousand ohms or more, these galvanic batteries have a capacity of over seven hundred actual working hours.

For a detailed description of the Chloride of Silver Galvanic Cell see previous pages.

Restoring Exhausted Galvanic Cells, 30 cents each.

Full directions accompany each battery.

In the Chloride of Silver Dry Cell there is no waste when not in use.

The current remains uniform during the whole life of the cell.

Special Catalogue on Application,

Electrical Apparatus.

CHLORIDE OF SILVER DRY CELL GALVANIC BATTERIES.



6139

6139.* Galvanic Battery No. 11.

	Compactness.	Weight.	
25-cells . . . 13	$8\frac{3}{4} \times 11\frac{1}{4}$ in. . . .	17 lbs. . . .	\$63 00
35-cells . . . 13	$8\frac{3}{4} \times 11\frac{1}{4}$ in. . . .	18 lbs. . . .	72 00
50-cells . . . 13	$8\frac{3}{4} \times 11\frac{1}{4}$ in. . . .	$19\frac{1}{2}$ lbs. . . .	85 00

The Cells in this battery are arranged in five series of respectively five, seven or ten cells. Each group of cells is connected to a Cell-Selector Switch by means of which any one group of cells or all of them may be placed in the circuit.

This battery is fitted with a first-class Milliampere Meter for the exact measuring of the current and for applying it in desired doses; also with the Willms Current Controller and with a Current Reverser.

6140. Galvanic Battery No. 10.

Same as No. 11, but without Milliampere Meter; deduct cost of latter, viz., \$20 00.

6143. Galvanic Battery No. 16.

Same as No. 11, but has in addition an Automatic Rheotome capable of furnishing a great variety of interruptions ranging from six to nine hundred per minute, with a switch for placing the instrument either in or out of the circuit. This is the most complete galvanic battery and responds to any demand where only the constant current is needed. Add \$10 00.

6145. Galvanic Battery No. 15.

Same as No. 16, but without Milliampere Meter; deduct \$10 00 from above prices.

Restoring exhausted Galvanic Cells, 30 cents each.

Full directions accompany each battery.

In the Chloride of Silver Dry Cell there is no waste when not in use.

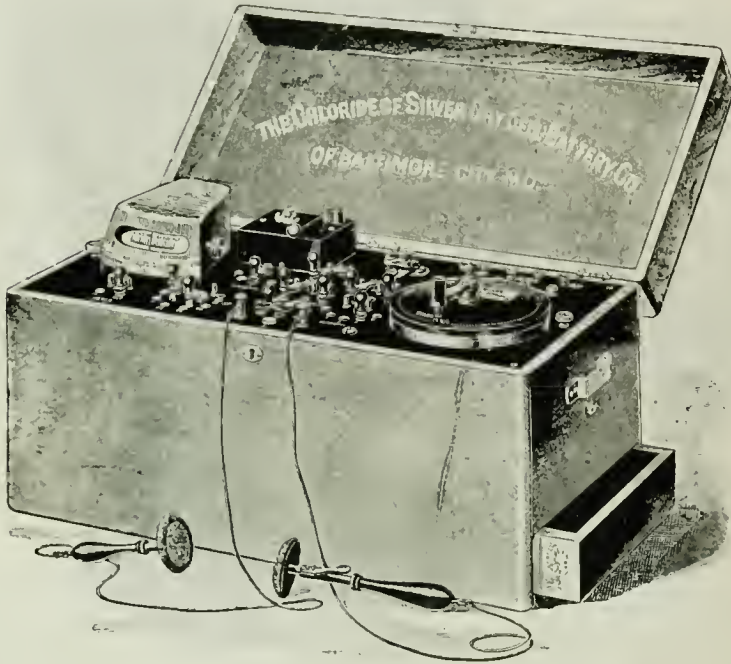
The current remains uniform during the whole life of the cell.

Special Catalogue on Application.

*All instruments illustrated are designated by a *.*

Electrical Apparatus.

CHLORIDE OF SILVER DRY CELL COMBINATION GALVANIC AND FARADIC BATTERIES.



6153

6147. Combination Galvanic and Faradic Battery No. 17.

25 cells, \$75 00; 35 cells, \$85 00; 50 cells \$100 00

Besides the Galvanic Cells, the battery contains four Faradic Cells. The faradic coils comprise a primary and two secondaries. The battery is provided with Milliampere Meter, Willms' Current Controller, Switch for combining the galvanic and faradic currents when desired, Cell Selector, Current Reverser, Current Breaker, Electrodes and Cords.

6153.* Combination Galvanic and Faradic Battery No. 13 \$115 00

Is equipped with fifty Galvanic Cells, four Faradic Cells, superior high-tension Coils (primary, four secondary—nineteen distinct currents), Milliampere Meter, Willms' Current Controller, Automatic Rheotome, Cell Selectors, Switch for combining the currents, Current Reverser, Current Breaker, Electrodes and Cords.

Restoring Exhausted Galvanic Cells, 30 cents each.

Restoring Exhausted Faradic Cells, 75 cents each.

Full directions accompany each battery.

In the Chloride of Silver Dry Cell there is no waste when not in use.

The current remains uniform during the whole life of the cell.

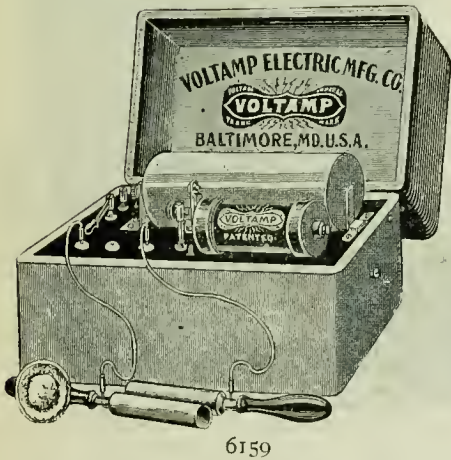
Special Catalogue on Application.

*All articles illustrated are designated by a *.*

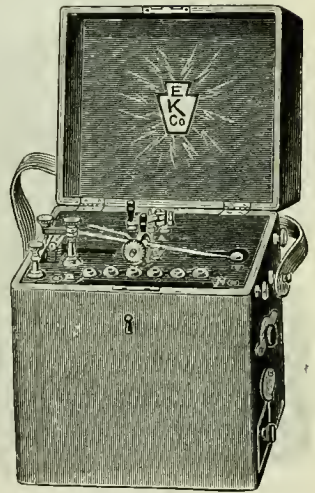
“Our factory is equipped to repair, sharpen and nickel plate your instruments in the best of manner and at shortest notice. For approximate costs of repair work, see page following index.”

Electrical Apparatus.

DRY CELL FARADIC BATTERIES.



6159



6171

- 6159.* "Voltamp" Dry Cell Faradic Battery, size 8 x 5 x 5 in. \$5 00
Extra "Voltamp" Cells, 35 cents each.

A handsome and complete electro-medical outfit at a moderate cost. It furnishes three currents: primary, secondary and combined. A complete set of handles, electrodes and cords are included.

6160. "New Domestic" No. 1 Dry Cell Faradic Battery, upright style \$6 00
Extra "New Domestic" Cells, 35 cents each.

Outfit includes a large nickel-plated foot plate and a pair each of hand electrodes, sponge-covered disks, wooden handles and cords; also a manual (extra copies 25 cents each) on the application of the faradic current for the self-instruction of patients and for reference to physicians.

- 6171.* "Keystone" Faradic Battery No. 3, with slow and rapid interrupters \$20 00
Extra "Keystone" Faradic Cells, 25 cents each.

The most complete type of faradic battery at a moderate price. It is equipped with two first-class dry cells, a tube modifier, enabling the operator to graduate the current so finely that it may be applied with perfect safety to the most sensitive parts of the body, such as the eye, the mucous membrane of the throat, vagina, rectum, etc.; superior coils, containing a primary and four secondaries of different sizes and lengths of wire, so arranged that the primary and secondaries may be used independently or in combination, placing nine distinct currents at the command of the operator. In addition to the rapid interrupter it is supplied with a slow interrupter of the most approved pattern, permitting any desired number of interruptions to be made.

The case is of polished walnut, provided with lock and carrying strap, and contains a pair of silk conducting cords and a pair of sponge electrodes with polished wood handles.

*All instruments illustrated are designated by a *.*

Electrical Apparatus.

DRY CELL GALVANIC AND FARADIC BATTERIES.



6172



6173

6172.* "Keystone" Dry Cell Galvanic Battery.

12 cells, without pole changer	\$13 50
16 " " " "	17 00
20 " with " "	20 00
24 " " " "	22 50
30 " " " "	25 00

This Battery is operated by a number of dry cells of approved type but of a small model, so arranged that any desired number of cells may be readily selected by turning the cell selector switch to the number required as stamped along the contact buttons. The life of the cells is from six to twelve months, varying with the amount of service.

Contained in a neat mahogany case, with carrying strap, and including a pair each of sponge electrodes, handles and silk conducting cords.

6173.* "Keystone" Dry Cell Combination Galvanic and Faradic Battery.

16 galvanic and 2 faradic cells	\$25 00
20 " " 2 " "	28 00
24 " " 2 " "	30 00
30 " " 2 " "	33 00

Of same general construction as Fig. 6172, but with the addition of the faradic coil and cells. The coil consists of a primary and two secondaries. Provided with switch for obtaining the currents either separately or in combination, also with current reverser.

Contained in a neat mahogany case, with carrying strap, and including a pair each of handles, sponge electrodes and silk conducting cords.

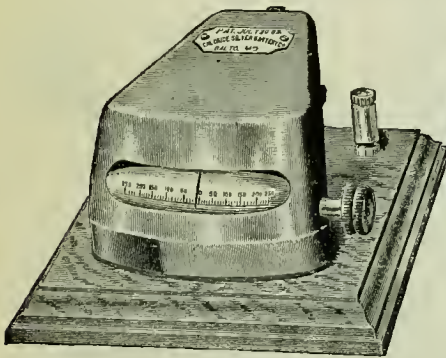
Extra "Keystone" cells for either galvanic or faradic 25 cents each.

*All instruments illustrated are designated by a *.*

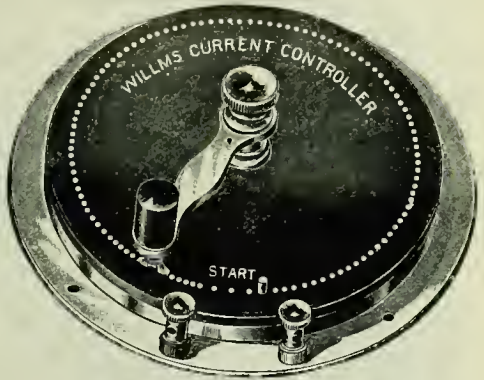
Electrical Apparatus.

MILLIAMPERE-METER.

CURRENT CONTROLLERS.



6174



6176

6174.* **Milliamperemeter**, direct reading, with two scales, in non-magnetic, dust proof, seamless, nickel-plated metal case, mounted on mahogany base \$20 00

As the prescription scale and the graduate measure are necessary accessories in the dispensing of medicines, so the use of the Milliamperemeter is imperative for the therapeutically accurate administration of the galvanic current in proper and exact doses.

This instrument is the product of the most careful workmanship. It is non-subject to changes due to time and surroundings. The free parts are secured against accidental displacement. It has a wide range of measurement and is direct reading, no tables nor calculations being required.

Two scales are provided, the lower one reading in 1/2 milliamperes from 0 to 25, the upper one in subdivisions of 5 milliamperes from 0 to 250. Either reading is immediately secured by turning the thumb nut at side.

Made in both horizontal and vertical positions. Specify style desired.

6176.* **Willms' Current Controller**, galvanic 10 00
 faradic, large 7 50
 " small 5 00

This controller is perfectly dry, the resisting body consisting of a graphite coat over a network of wires, these running through a bed or plate of hard rubber to the face of the instrument, there connecting with the controller arm. At the start, after passing the first three pins, which are not contact points, the resistance offered is so great that the current passing is only strong enough to be scarcely perceptible; then, as the shoe of the controller arm glides smoothly over the contact points, the resistance is gradually lessened, until the full strength of the battery is being administered, without giving any semblance of a shock even to the most sensitive patient.

With the aid of this instrument the current can be applied to the mucous membrane of the mouth, throat, vagina, rectum, etc., without the slightest danger of imparting a shock.

The controller intended for galvanic work has a minimum resistance of one ohm and a maximum resistance of 100,000 to 200,000 ohms or more, depending on the number of cells employed in the battery.

When used on the 110 volt electric light circuit an 8 c. p. lamp should be placed in series.

6177. **Willms' Calibrated Current Controller (Faradameter)** 20 00

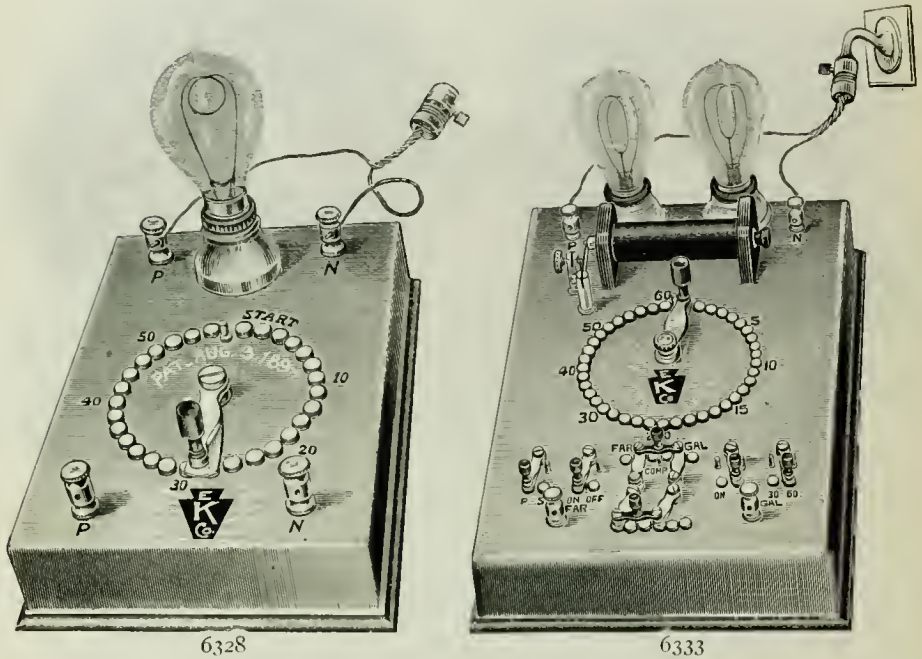
Similar to Fig. 6176, but has the scale of resistance in ohms marked at each contact pin, enabling the physician to keep a record of ohms administered.

These Current Controllers can be used with all Galvanic, Faradic and Combination Batteries.

Special Catalogue on Application.

Electrical Apparatus.

CONTROLLERS FOR 110 VOLT DIRECT CURRENT.



6328.* "Keystone" Galvanic and Lamp Controller for 110 volt electric light current, with cord, connecting plug and electrodes . . . \$15 00

This apparatus is one of the most simple and at the same time most perfect controllers for 110 volt direct electric light current. It is divided into 40 steps, and will give from 1 to 500 milliamperes on any step on the scale without increasing the voltage, a point of great importance, as the full amperage can be obtained at a low voltage, thus avoiding all pain to the patient.

The special points claimed for this controller are: convenience and readiness of action, constancy and uniformity of current, and absolute safety against any shock to patient.

The controller can also be used for diagnostic, urethroscopic and cystoscopic lamps of different voltages.

It is mounted on a highly polished base in either oak, walnut or mahogany; all exposed metal parts are heavily nickel plated, making a very handsome and durable apparatus.

6330. "Keystone" Compound Galvanic, Faradic and Lamp Controller, for 110 volt electric light current, with cord, connecting plug and electrodes \$25 00

6333.* "Keystone" Improved Galvanic, Faradic and Lamp Controller, for 110 volt electric light current, with cord, connecting plug and electrodes 35 00

With the addition of a Slow Interrupter . . . 40 00

Similar in construction to Controllers Nos. 6328 and 6330, but arranged with switches in such manner that the galvanic and faradic currents may be obtained not only separately, as in the former apparatus, but also in conjunction. Furthermore, it is provided with a current reverser and with an extra switch, which, when placed, reduces the strength of the indicated current to one-half, making it available for treatment of the eye and other very sensitive parts.

*All articles illustrated are designated by a *.*

Electrical Apparatus.

6334.* "Keystone" Electro-Therapeutic Wall Cabinet No. 5, for 110 volt direct current \$85 00

This very desirable office outfit consists in the latest forms of controlling and recording devices, all mounted on a plate of highly polished marble and contained in a finely finished cabinet with sliding glass door and with drawer at bottom. All parts are furnished either nickel plated or finished in brass, as desired, and first-class in every respect. Every switch is marked plainly, so that it is easy to obtain the best service from the apparatus.

The Faradic Coil is mounted at the back of the plate; on face is provided a switch with which to select either of six different strengths of current. Further provided are a switch for selecting either primary or secondary faradic current, a rapid and a slow interrupter, a graduated shunt controller for the galvanic current, a pole changer, a deWatteville switch for the combined application of the galvanic and the faradic currents, and an improved, absolutely *dead-beat*, milliamperemeter with low and high reading; further, a switch to cut off all current.

The dimensions of the cabinet are 30 inches high, 22 inches wide, 10 inches deep. Furnished in either oak or mahogany, as selected.

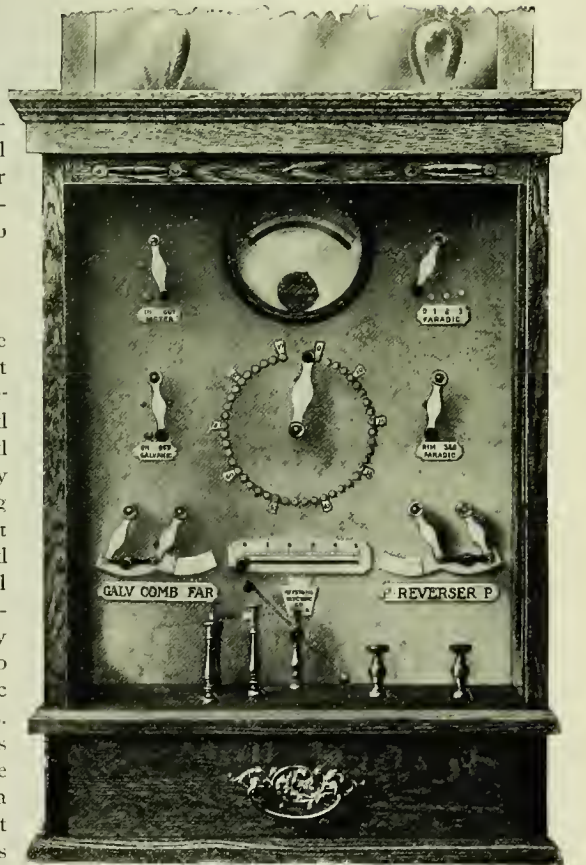
6155. Chloride of Silver Dry Cell Combination *Galvanic and Faradic* Wall Cabinet \$150 00

The outfit includes fifty Chloride of Silver Galvanic Cells, four Chloride of Silver Faradic Cells and every superior device for the therapeutic administration of the galvanic and faradic currents. Dimensions, 49 inches high, 23 inches wide, 14 inches deep.

6157. Chloride of Silver Dry Cell Combination Galvanic and Faradic Table Cabinet, including fifty Galvanic and six Faradic Cells \$180 00

Fully Descriptive Literature on Application.

*All instruments illustrated are designated by a *.*



6334

Electrical Apparatus.



6335

6335.* "Keystone" Electro-Therapeutic Wall Cabinet No. 1, with motor for 110 volt direct current \$200 00

6336. "Keystone" Electro-Therapeutic Wall Cabinet No. 1, with twin-motor generator for 110 volt alternating current 250 00

This cabinet combines more special features and is more complete in a single apparatus than any other cabinet on the market. It has the latest and most approved controllers and transformers, all mounted on a white Italian marble plate, contained in a highly finished, hardwood cabinet with sliding glass door. At bottom are two drawers for electrodes, etc., and a separate compartment to hold the direct current motor transformer. All metal parts are of heavy brass, finely finished and lacquered. The whole apparatus is very simple to operate, as all the switches are marked plainly.

The currents obtainable through the various switches and regulated through the controllers are:

Galvanic Current with or without meter in circuit;

Faradic Current through rapid or slow interrupter, giving current from 100 to 1500 feet of wire in circuit;

Combined Galvanic and Faradic Currents through DeWatteville switch;

Sinusoidal Current, under perfect control;

Resisted (Cautery) Current, controlled so absolutely as to heat with safety any electrode from the small eye instrument to the largest knife electrode used in general practice.

Further provided is a rheostat to regulate the speed of the motor for operating surgical drills, a switch to change the polarity of the galvanic and faradic currents without changing electrodes; also a controller for diagnostic lamps. The latest improvement is a new form of absolutely *dead-beat* milliamperemeter with low and high reading.

The cabinet is furnished with two sets of binding posts, so that cautery and light can be obtained and used at the same time.

Height, 41 inches; width, 25 inches; depth, 11 inches. Selection of either oak, cherry, mahogany or walnut finish.

These same cabinets, with the additional features of an Eye and Ear Masseur and of a special Controller, which permits the reduction of the strength of the galvanic current and its very mild increase or decrease, add \$25 00.

*All instruments illustrated are designated by a *.*

Electrical Apparatus.

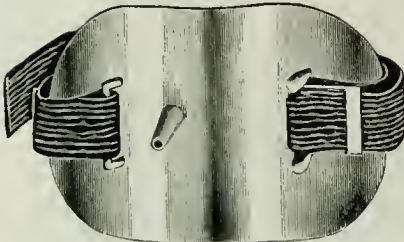
ELECTRODES.



6190



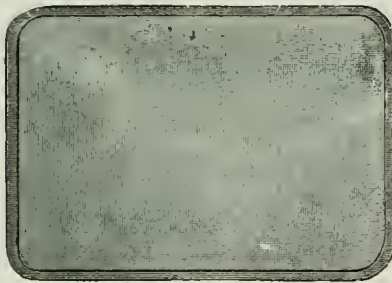
6192



6208



6197



6202



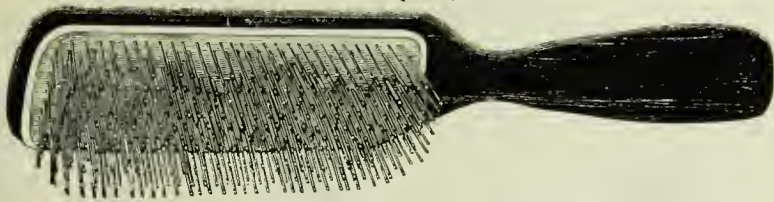
6207

6190.*	Ebonized Handle and Nickel-plated Canula	\$0 60
6191.	Universal Handle, with Current Breaker . . . ebonized, 75c.; hard rubber	I 25
6192.*	Sponge Electrode, rubber back, without handle (male or female thread), each	35
6193.	“ “ “ with knob handle “ “	35
6195.	“ Holder, Universal, without handle “ “	I 00
6196.	Carbon Electrode, flannel covered	per pair 50
6197.*	Conducting Cords, silk covered, 5 ft. long, per pair, 65c.; 8 ft. long “ “	85
6198.	“ “ cotton covered, 3 ft. long “ “	60
6199.	Metallic Scourge Electrode	50
6202.*	Electrode, Felt Covered Pad, soft rubber back; 3¼ x 2¾ in., 50c.; 4¼ x 3½ in., 60c.; 5½ x 3¾ in., 75c.; 7 x 5 in., 90c.; 8 x 5¾ in., \$1 00; 9 x 6½ in.	I 25
6203.	“ Wire Gauze, 3 x 4 in., 50c.; 4 x 5 in., 60c.; 4 x 6 in., 70c.; 5 x 7 in., 80c.; 6 x 8 in., 90c.; 6 x 12 in., \$1 00; 8 x 10 in., \$1 10; 8 x 12 in.	I 25
6204.	“ Foot Plate zinc 50c.; copper, nickel-plated	I 00
6206.	“ Oval Sponge, soft rubber back, for direct application with hand	I 00
6207.*	“ Round Sponge, with long insulated handle, for use under clothing	I 00
6208.*	“ Wrist and Neck Band	I 00
6209.	“ Disc with insulated metal points	75

When Ordering Electrodes, Specify for what Make of Battery.

Electrical Apparatus.

ELECTRODES.



6212



6217



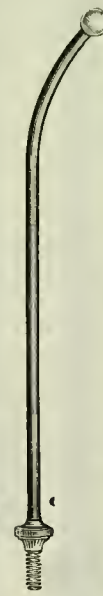
6219



6223



6225



6228



6231



6238



6224



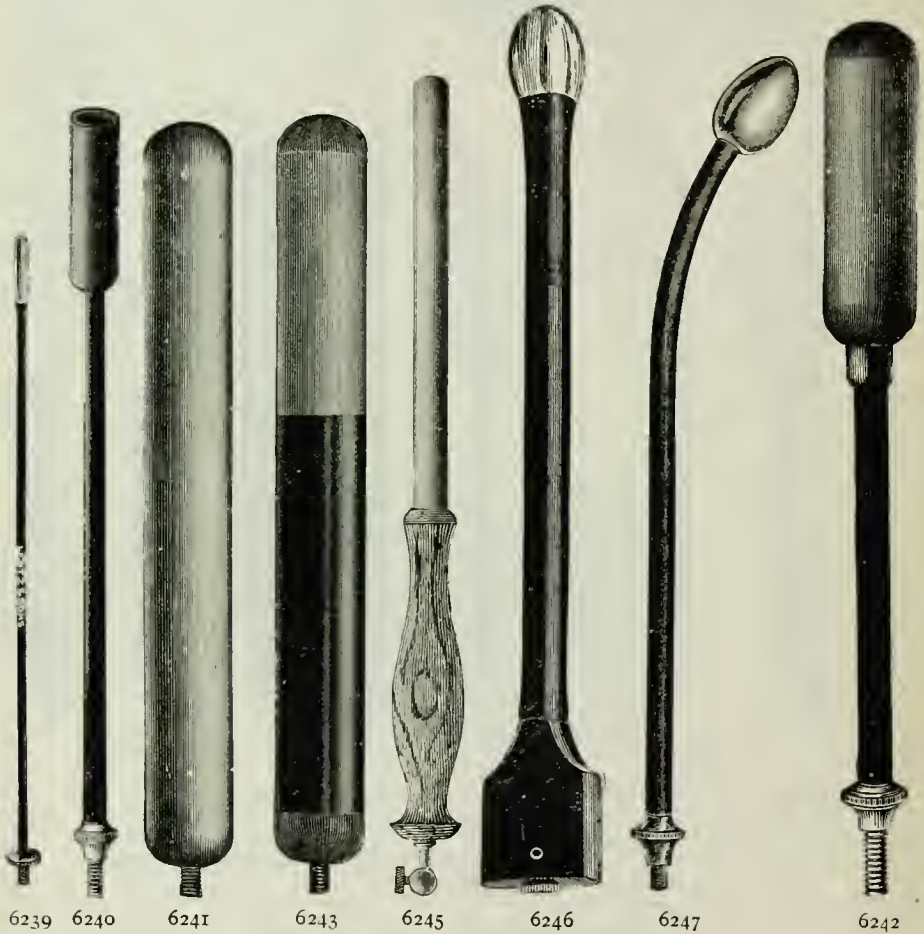
6237

6212.*	Electrode, Hair Brush		\$1 50
6213.	" Comb, seven points	small, 60; long	75
6213a.	" "Cloud's Comb, large, with handle		2 50
6214.	Wheel or Rolling Rheophore, with insulated metal points		1 50
6215.	Electrode, Eye Cup, to be filled with water		1 00
6217.*	" for Eye, small		75
6218.	" " Ear, with hard rubber cone-shaped insulating protector		1 75
6219.*	" " Tongue, with insulated stem		50
6220.	" Cataphoric, Morton's		6 00
6223.*	" for Nose, insulated stem		50
6224.*	" " nickel-plated		75
6225.*	" " Ear and Nose		75
6226.	" " Tonsil		50
6228.*	" " Larynx		50
6229.	" " with round sponge for external application		60
6230.	" " Paralysis of the Vocal Chords, Mackenzie's improved		3 50
6231.*	Electrolysis Needle Holder with Interrupter, hard rubber		1 00
6232.	" " " Fox's.		1 50
6233.	" " " with cord and tips to hold 1 to 6 needles; without needles, 25c to dozen, \$2 00; each		75
6234.	" " Needles, platinum		20
6235.	" " gold plated, straight, half curved and full curved, each		45
6236.	" " Broaches, doz., \$1 00; each, 10c.; Steel Needles, doz.		30
6237.*	Electrode, Erb's pattern, sponge tipped, large or small		25
6238.*	Needle Disc, for removing wine marks		2 50

All instruments illustrated are designated by a *.

Electrical Apparatus.

ELECTRODES.

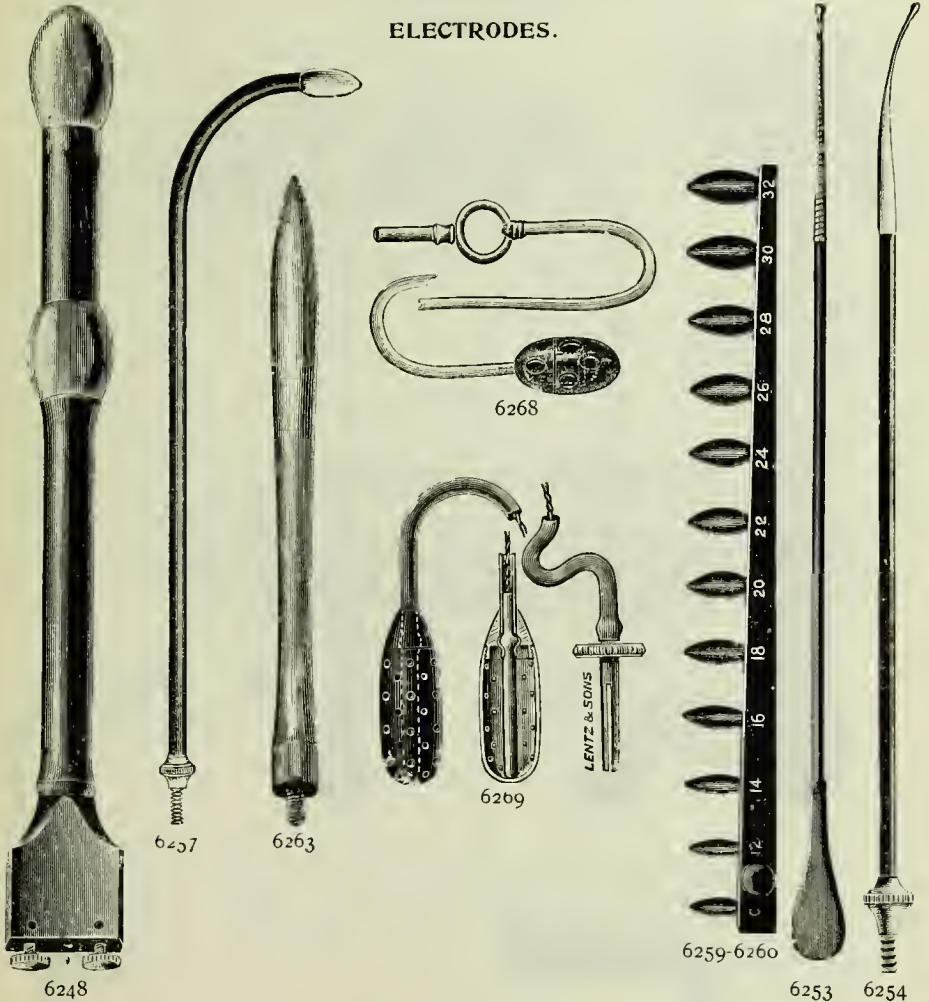


6239.*	Electrode, Intra-Uterine, insulated	\$1 50
6240.*	" Vaginal and Os Uteri, insulated	1 50
6241.*	" " all metal, large or small	60
6242.*	" " cylindrical tip, insulated stem, large or small.	1 50
6243.*	" " partly insulated	1 50
6245.*	" " Mono-Polar, with finely polished insulated handle	1 50
6246.*	" " " " insulated	1 50
6247.*	" " " " " three sizes, $\frac{1}{8}$, $\frac{3}{4}$ and 1 in.° . each	1 50

Special Electrodes made to order after drawings and directions.

Electrical Apparatus.

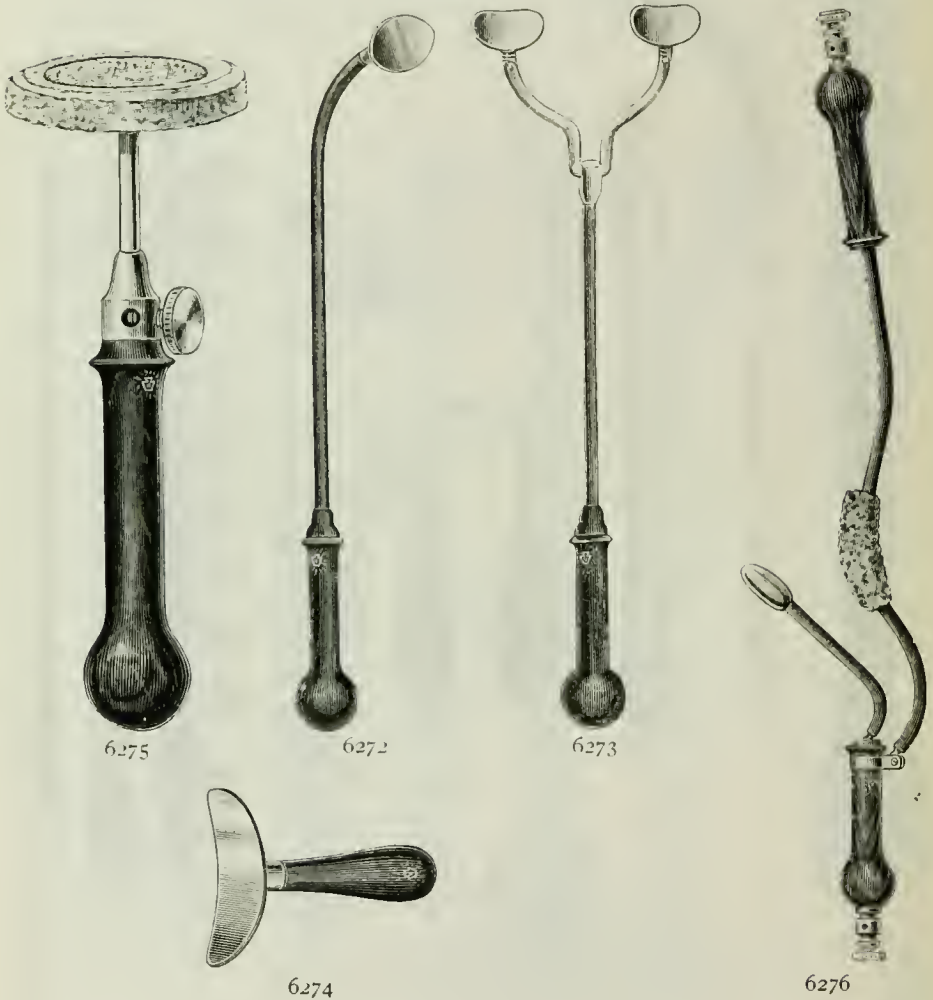
ELECTRODES.



6248.*	Electrode, Vaginal, bi-polar, insulated	\$2 00
6251.	“ Uterine Cup, with insulated stem, three sizes	each 1 50
6252.	“ “ “ intra-uterine stem and long insulated stem	1 50
6253.*	“ Intra-Uterine, spiral, flexible and insulated	1 50
6254.*	“ “ “ inflexible, insulated	1 00
6255.	“ Catheter, silver, full curved or half curved	each 1 50
6257.*	“ for the removal of urethral stricture by electrolysis, six sizes, straight or curved, insulated stem, each, .50; set of six in case	3 75
6258.	“ Metallic Sound, nickel plated, 1/8, 7/8 and 1/4 in. diam., each	50
6259.*	“ Olivary, one dozen with insulated stem, curved or straight	2 00
6260.*	“ “ “ without insulated stem	1 50
6262.	“ Rectal, partly insulated	1 00
6263.*	“ “ all metal	60
6264.	“ “ with ball and long insulated stem	1 00
6266.	“ Case, Genito-Urinary; contains nickel plated metallic Sound, flexible and inflexible Urethral Electrodes, and twelve assorted Olives, numbered from 10 to 32, French scale	3 50
6268.*	“ Stomach, Einhorn’s, deglutable, for direct electrization	2 25
6269.*	“ “ Boardman Reed’s modified Einhorn’s, aseptic	1 50
6270.	Gastro-Diaphane, Einhorn’s, see fig. 3155, page 284	7 50

Electrical Apparatus.

ELECTRODES.



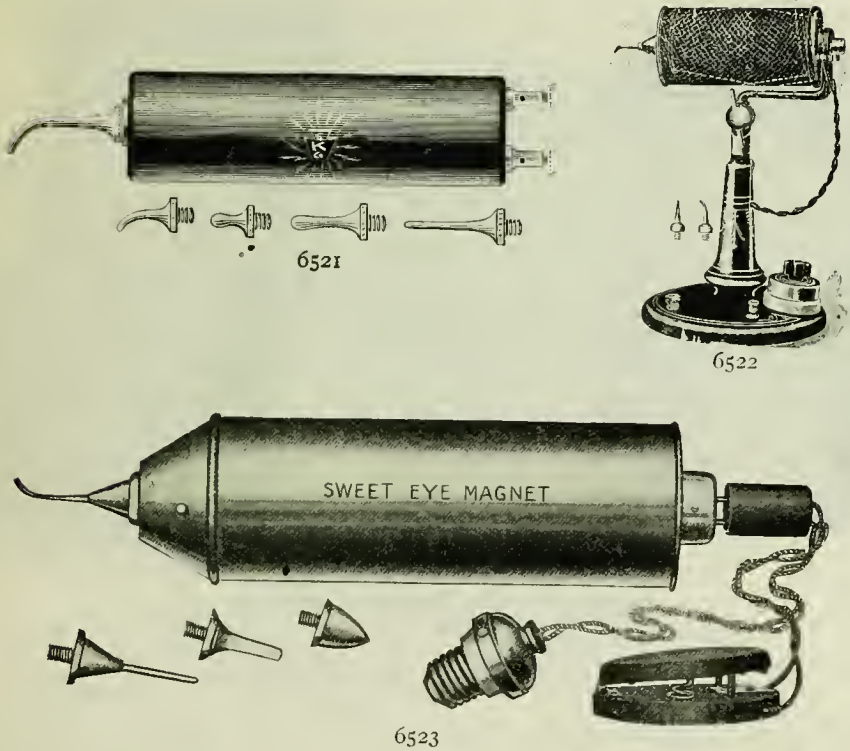
6272.*	Electrode, Eye, single, gold plated	\$2 00
6273.*	“ “ double “ “	3 00
6274.*	“ “ Faught's	65
6275.*	“ Sponge and Handle .	per pair 1 00
6276.*	“ Prostatic Electrolyzer, Shoemaker's .	5 00

All instruments illustrated are designated by a *.

“Our own well-equipped factory is at your command for the production of any special instrument which you desire made. Our mechanics are experts in their various specialties. Our charges are as moderate as consistent with first-class work.”

Electrical Apparatus.

EYE MAGNETS.



- 6521.* "Keystone" Electro-Magnet, for removing particles of steel from the vitreous chamber; for battery current . . . \$6 00
 for 110 volt direct electric light current . . . 8 00

These magnets are quite powerful, and will be found very useful in general work.

- 6522.* "Victor" Electro-Magnet No. 2, "The Little Giant," for use on either 110 or 220 volt direct current, including stand 25 00
 Rheostat extra \$5 00.

Will be found a most useful addition to the oculist's office outfit or for a small hospital. Very powerful, having a lifting power of about 100 lbs. Adjustable to various angles.

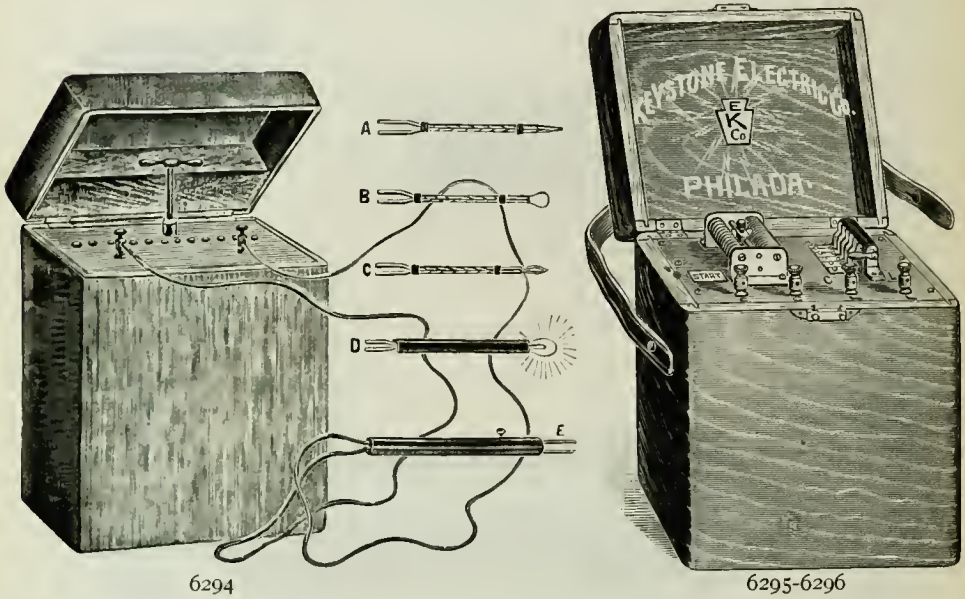
- 6523.* "Sweet" Electro-Magnet, for use on the 110 volt direct current; complete, as illustrated, \$35 00; fitted in leather-covered case 40 00
 The most powerful portable eye magnet for its size.

6526. "McIntosh" Electro-Magnet, for battery current 7 50

*All instruments illustrated are designated by a *.*

Electrical Apparatus.

CAUTERY AND ILLUMINATING BATTERIES.



- 6294.* "Feddern" Cautery and Diagnostic Lamp Battery, complete with Conducting Cords, Universal Handle with Interrupter, one Knife, one Curette, one Point Electrode and one Illuminating Lamp . . . \$12 50
 Extra Cautery Electrodes, a, b or c, light, to suit "Feddern" Battery each 1 00
 Extra Miniature Lamp, one candle power, mounted on hard rubber handle 1 50

The degree of heat is controlled in this battery by an elevating rod automatically regulating the immersion of the elements. The current discharged is in proportion to the immersion of the plates, hence the amount may be regulated to suit the electrode in use and work required.

Full directions for use and care of battery, and formula for solution, accompany each battery. We can furnish the cautery fluid at 25 cents per quart; bottle 5 cents extra.

6295.* "Keystone" Dry Cell Cautery and Diagnostic Lamp Battery \$15 00

6296.* "Keystone" Dry Cell Cautery and Diagnostic Lamp Battery; complete outfit, with Seiler's Cautery Handle, Cautery Cords, three Cautery Knives and Diagnostic Throat Lamp with Shield 25 00

This battery is operated by nine dry cells (cost of new cells, 30 cents each).

A commutator connects the cells in either series or parallel as required for either cautery or illuminating work. Size of case, 10x10x11 inches, with carrying strap.

6297. Lentz's Dry Cell Illuminating Battery \$12 00

Operated by eight standard type dry cells (cost of new cells, 25 cents each); with special rheostat, which controls lamps from the lowest voltage up to 12 volts. Size of case, 11¾ x 6½ x 11 inches; with carrying strap.

6298. Lentz's Dry Cell Illuminating Battery, small \$3 50

Quotations on Storage Batteries Furnished on Application.

*All instruments illustrated are designated by a *.*

Electrical Apparatus.

DIAGNOSTIC OUTFIT.



6310

- 6310.* General Diagnostic Set, comprising illuminating battery, cords, auroscope with three specula, laryngoscope, tongue depressor, general diagnostic illuminator, two Koch's urethrosopes (any sizes) with one light carrier, rectal tube or proctoscope with light carrier . . \$40 00
- 6311. General Diagnostic Set, same outfit as No. 6310, but without rectal tube and light carrier 33 00

This style of a general diagnostic set will be found of inestimable worth to the general practitioner, as it comprises a select number of the most up-to-date electrically lighted instruments for a variety of cases for both office work and bedside use.

The battery consists of four standard-type dry cells, mounted in a leather-covered case, with rheostat for regulating the current.

We invite correspondence regarding the contemplated purchase of any electrical apparatus or appliance.

*All instruments illustrated are designated by a *.*

"Our factory is equipped to repair, sharpen, polish and nickel plate your instruments in the best of manner and at shortest notice. For approximate costs of repair work, see page following index."

Electrical Apparatus.

ALTERNATING CURRENT TRANSFORMERS.



6312



6314

- 6312.* Current Transformer, for use on 110 volt alternating current;
 (a) for cautery only \$20 00
 (b) for cautery and light 25 00

This Transformer has been designed to supply the needs of physicians who demand a convenient and portable controller. It is contained in a polished mahogany carrying case, size 7x7x5 inches, the fixtures being mounted on a platform of polished hard rubber. The heat of the cautery knife is regulated by turning the handle knob of the circular controller. The index indicates the amount of the secondary coil exposed to the primary coil. With this adjustment, from the smallest to the largest knives made can be heated perfectly. The maximum output of this apparatus is 4 volts and 60 amperes.

6313. Current Transformer, same model as No. 6312, but having a maximum output of 4 volts and 100 amperes; designed to operate very heavy knives and the Downes' electro-thermic instruments \$25 00
 For Connecting Cords, Foot Switch and Plug, add \$3 50.

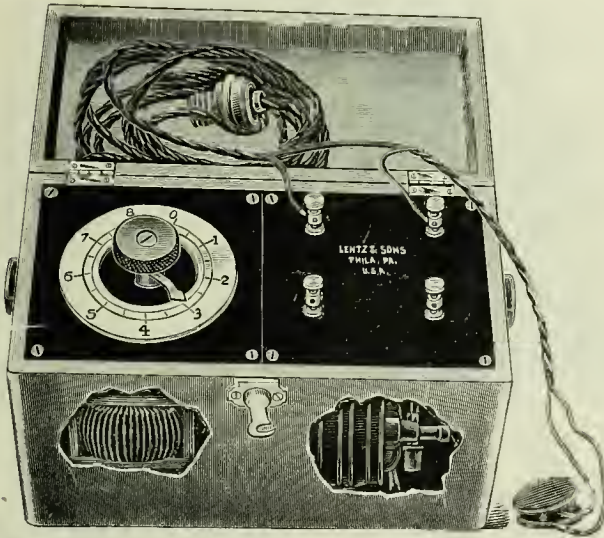
- 6314.* Current Transformer, same model and strength as No. 6313, but with the addition of an ampere meter registering from 0 to 100 amperes; specially designed to operate the Downes' electro-thermic forceps and for extra heavy cautery knives; complete with cords and foot switch 65 00

6315. Cautery Cable, specially heavy, single section, 60 inches long 4 00
 6316. Cautery Cable, specially heavy, two sections, 60 inches long 6 00

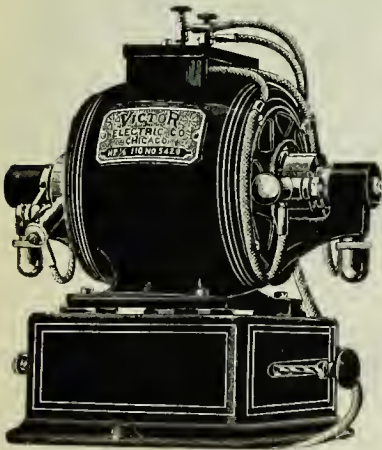
*All instruments illustrated are designated by a *.*

Electrical Apparatus.

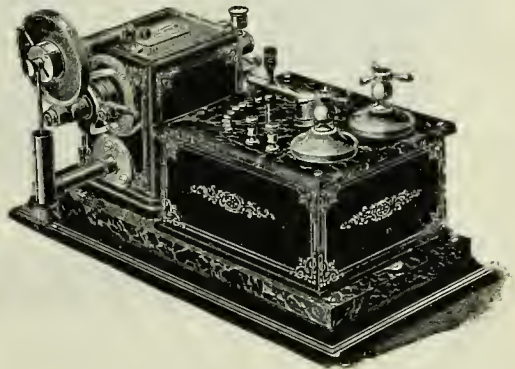
DIRECT CURRENT TRANSFORMERS.



6320



6326



6327

- 6320.* Current Transformer, combined with a motor transformer in one case, for 110 volt direct current, without ampere meter . . . \$65 00
6321. Current Transformer, with ampere meter, combined with a motor transformer in one case, for 110 volt direct current . . . 100 00
- Foot switch and connecting cords with plug are included in the above.
- The above transformers are designed for operating very heavy cautery knives, and especially the Downes electro-thermic forceps.
- 6326.* Current Transformer, for 110 volt direct current . . . 35 00
- Designed for the use of the eye, ear, nose and throat specialist; for operating cautery electrodes. (See page 490.)
- 6327.* Current Transformer with Pynchon's Ear Pump, for aural and eye massage; general cautery and diagnostic lamp controller, wound and fitted for massage handle; for 110 volt direct current . . . 90 00
6331. "Victor" Ear Pump only. Same as attached to apparatus Fig. 6327 . . . 20 00

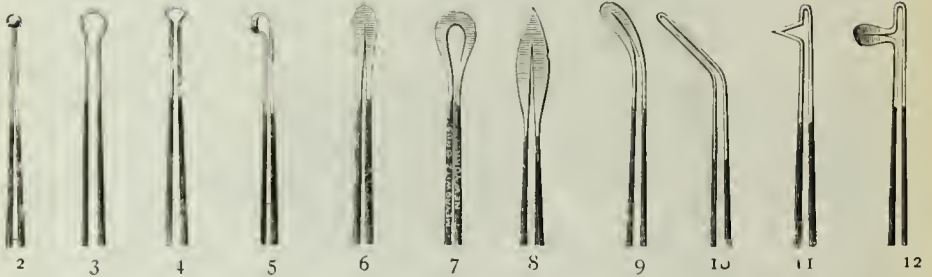
*All instruments illustrated are designated by a *.*

Electrical Apparatus.

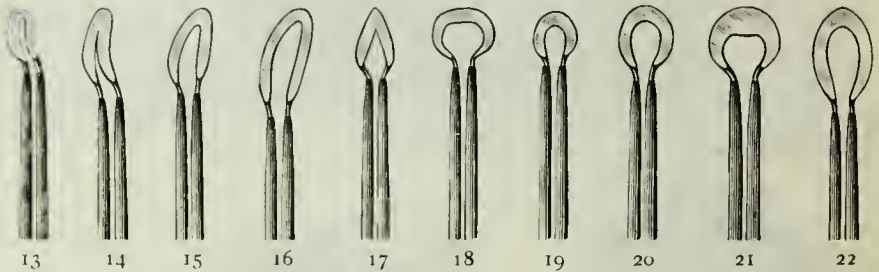
CAUTERY ELECTRODES.



1



6340



6342



6356



6361

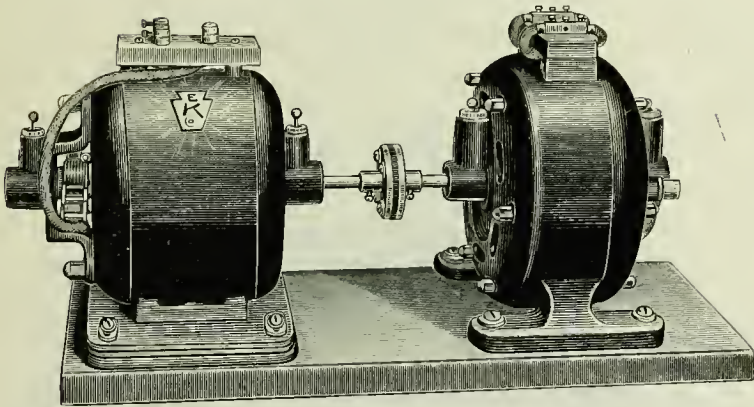
6340.*	Cautery Electrodes, nasal, Nos. 1 to 12, inclusive	each	\$1 00
6341.	“ “ laryngeal, with curved shanks, with points No. 6340; Nos. 1 to 12	each	1 00
6342.*	“ “ heavier and larger than the regular nasal; Nos. 13 to 22, inclusive	each	1 25
6352.	“ “ for eye work, points like Fig. 6340; Nos. 1, 2, 4 9 and 10	each	1 00
6356.*	“ Handle, Seiler’s Universal		4 25
6357.	“ “ with snare attachment		8 50
6361.*	“ “ small and light, designed for eye work		5 00
6358.	“ Cords, heavy	per pair	2 00
6360.	Platinum Snare Wire	per length of 20 inches	1 75
6367.	Universal Hand Piece, with extra long surgical shaft, sheath, wrist joint and arm support		15 00
6369.	Nasal Burrs and Trephines	each	1 00

For illustrations of the Downes heavy cauterizing knives, cables, etc., see page 65.

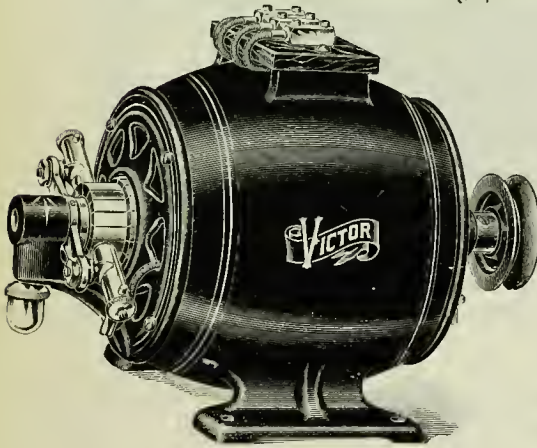
*All instruments illustrated are designated by a *.*

Electrical Apparatus.

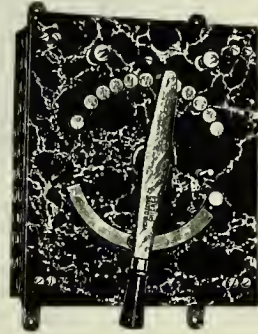
MOTOR DYNAMO AND MOTORS.



6364



6365



6366

6364.* "Keystone" Motor-Dynamo Set, for converting the alternating current into constant or direct current of any desired voltage . . . \$100 00

By the employment of this device any of the apparatus which are used on the 110-volt direct current can be operated from an alternating electric light current. In ordering, state the voltage and alternations of the current to which the Motor-Dynamo is to be attached.

6365.* "Victor" Power Motor, for 110-volt direct current,

1-12 H. P.	\$18 00
1/8 H. P.	22 50
1-6 H. P.	27 00
1/4 H. P.	41 00

6366.* Speed Controller,

for 1-12 or 1/8 H. P. motors	5 50
for 1-6 H. P. motor	8 00
for 1/4 H. P. motor	9 00

6368. Power Motor, variable speed, for the alternating current of 110 volts and 60 cycles 1/4 H. P., \$50 00; 1-3 H. P. 60 00

This is the only alternating current motor we know of in which the speed can be controlled, and which does not depend on separate speed-controlling devices.

Electrical Apparatus.

X-RAY APPARATUS.



6440, 6442, 6443

Complete Snook Roentgen Apparatus for Direct Current, with Switch Table, Tube Stand and Lead Glass Shield.

6440.*	"Snook" Roentgen Apparatus for <i>direct current</i> of either 110 or 220 volts, with switch table (tube stand and lead glass shield <i>not</i> included):	
	One Kilowatt capacity	\$668 00
	Two Kilowatt capacity	785 00
	Three Kilowatt capacity	940 00
6441.	"Snook" Roentgen Apparatus for <i>alternating current</i> , with switch table:	
	One Kilowatt capacity polyphase, \$730 00; single phase	785 00
	Two Kilowatt capacity polyphase, \$906 00; single phase	962 00

The "Snook" Apparatus does not use any interrupter, and is entirely free from inverse discharge.

6442.*	Roentgen Tube Stand, with 7-inch lead glass shield	23 50
6443.*	Lead Glass Shield only . . to hold 7-inch tube, \$6 50; to hold 8-inch tube	8 50

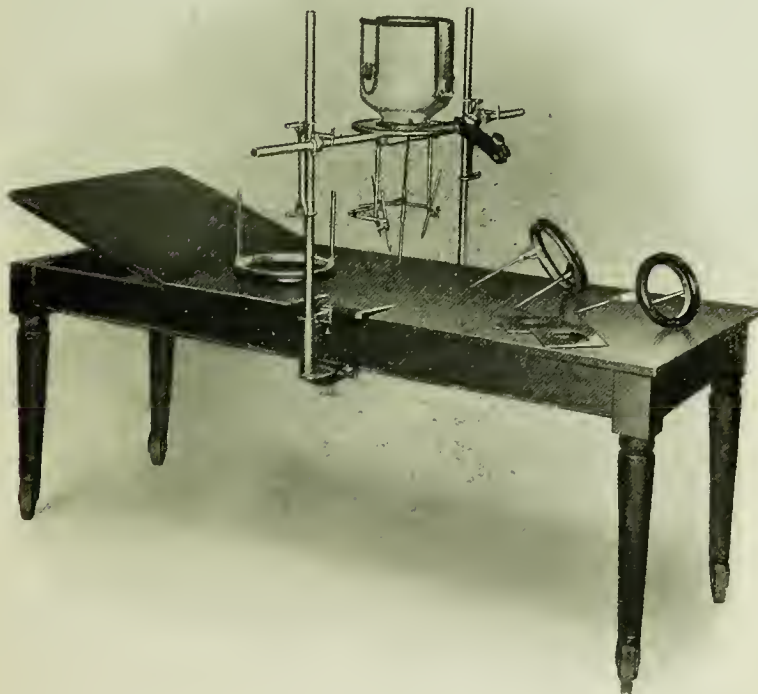
We solicit your inquiries regarding the very latest and most approved forms of X-Ray Apparatus, High-Frequency Apparatus and Accessories.

Prices subject to change.

*All articles illustrated are designated by a *.*

Electrical Apparatus.

X-RAY APPARATUS.



6444

- 6444.* Radiographic Table, with adjustable leaf for head, complete, with improved MacKenzie Davidson localizer, lead glass shield and three compression diaphragms \$89 00
6445. Lead Screen, $\frac{1}{8}$ -inch lead, 42 x 54 inches, with glass top 39 00
6446. "Oudin" Resonator for high-frequency work; on mahogany cabinet, with resonator and vacuum electrodes 60 00
6447. Fluoroscope, with removable screen,
5 x 7 in., \$12 00; 6 x 8 in., \$16 00; 7 x 9 in., \$20 00; 8 x 10 in. 25 00
6448. X-Ray Tube, very best standard make, heavy copper target, 6-inch bulb, with plain platinum facing, \$22 50; with iridio platinum facing 32 00

We solicit your inquiries regarding the very latest and most approved forms of X-Ray Apparatus, High-Frequency Apparatus and Accessories.

Prices subject to change.

*All articles illustrated are designated by a *.*

Electrical Apparatus.

HIGH-FREQUENCY AND X-RAY.



6450

- 6450.* "Keystone" High-Frequency and X-Ray *Coil* Outfit No. 1, including set of Snow electrodes, pair of sponge electrodes, two pairs of conducting cords, attachment cord and plug;
 for either 110 or 220-volt alternating current \$175 00
 for either 110 or 220-volt direct current 250 00

The outfit is equipped with the most powerful and most efficient coil for radiographic, fluoroscopic and general therapeutic work, offering X-Ray, high-frequency, d'Arsonval, ultra-violet, auto-conduction, auto-condensation and all high and low potential current effects. Noiseless in operation. Its control and applications are easily mastered.

For X-Ray work the coil is unequaled, as it operates without strain any tube from the smallest to the largest, the rays remaining uniform at all times.

For high-frequency work it has adjustments for high, medium and low-frequency currents; they yield low enough to produce powerful muscular contractions, or high enough to fuse a steel wire or light an incandescent lamp through the body without sensation.

The d'Arsonval and ultra-violet ray currents are of large volume.

The cabinet containing the outfit is of highly polished quartered oak, with three drawers for instruments and a large closet for X-Ray tubes. All brass parts are mounted on polished rubber plate and marked plainly as to their use.

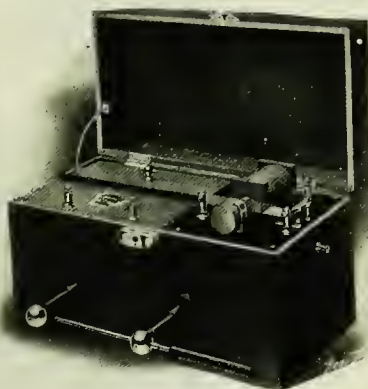
*All articles illustrated are designated by a *.*

Electrical Apparatus.

HIGH-FREQUENCY AND X-RAY.



6452



6454

- 6452.* "Keystone" Portable High-Frequency and X-Ray *Coil* Apparatus No. 2, including set of Snow tubes and X-Ray tube holder;
 for 110-volt alternating current \$100 00
 for 220-volt alternating current 110 00

A powerful double-pole apparatus for all classes of radiographic and general treatment work. The coil is noiseless in operation. Has selective switch for cutting out the primary winding of the Tesla coils, thereby changing the frequency of the current from low, medium or high frequencies. Not made for the direct current.

- 6454.* "Keystone" Portable High-Frequency and X-Ray *Coil* Apparatus No. 3, including set of Snow tubes and X-Ray tube holder; for both alternating and direct 110-volt currents 75 00

A double-pole apparatus designed especially for the general practitioner. Powerful enough to do any ordinary radiographic or treatment work. Weight, 23 pounds.

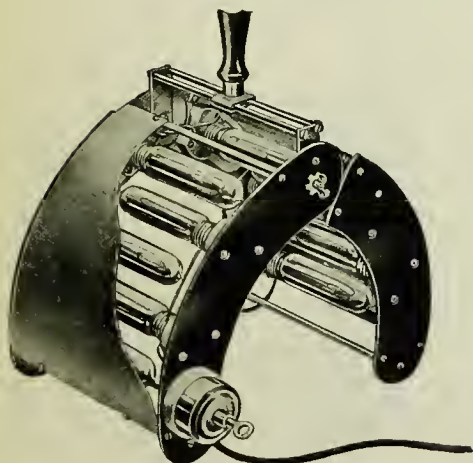
- 6456.* Electric Light Bath and Heater 25 00

For both direct and alternating currents (specify voltage); instantly controlled and regulated.

The apparatus is of such shape that light and heat can be applied around the joints or limbs, or around any part of the body, or up and down the spine, and without affecting adjacent parts; this is especially desirable in treatment of the shoulder.

It is very efficient in the treatment of a variety of skin diseases, stiff joints, rheumatism, neuritis, gout and lumbago.

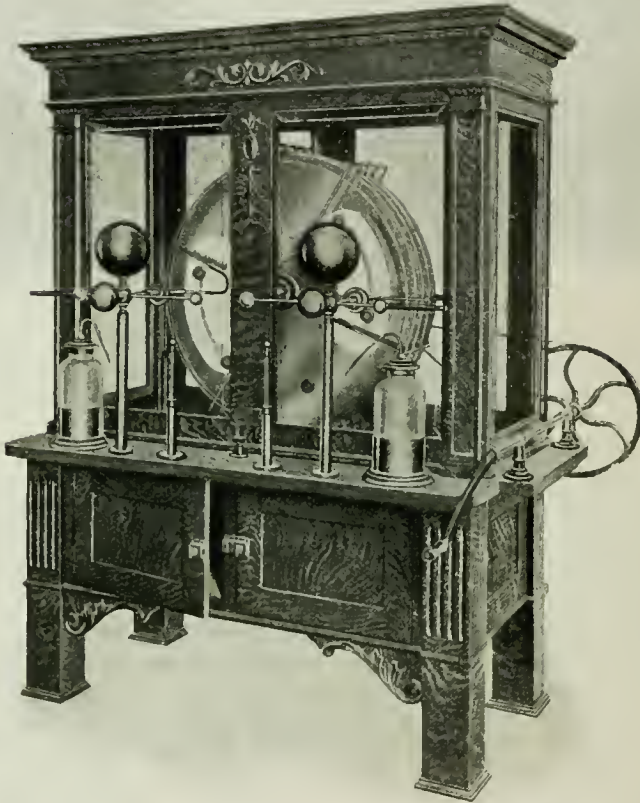
As a heating apparatus it can be used with a temperature as high as 500° F.; as an electric light bath with a candle power as high as 320.



6456

Electrical Apparatus.

STATIC MACHINES.



6458

6458.* "Nelson" Static Machine with 16 plates, \$250 00; with 24 plates \$275 00
Including X-ray outfit electrodes.

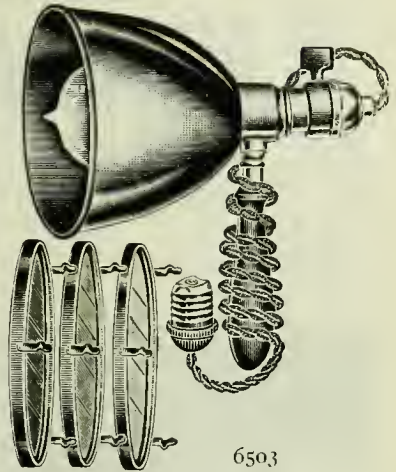
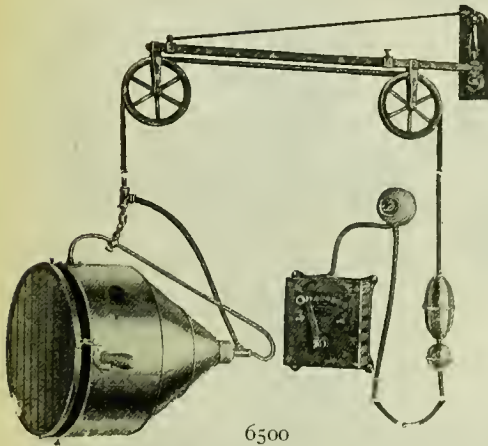
Freight charges extra.

The case is of selected quarter-sawed oak, constructed by the best skilled cabinetmakers. It is ornamented by real carvings and fitted with French beveled plate glass. The legs are square, to preserve rigidity.

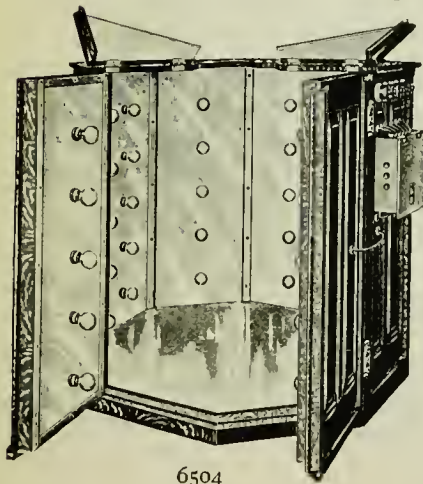
We solicit your inquiries regarding Static Machines or any kind of electrical apparatus, and shall be glad to furnish full particulars of the latest and most practical devices.

*All instruments illustrated are designated by a *.*

Electrical Apparatus.



- 6500.* Leucodescent Therapeutic Lamp Outfit "F Special," for both direct and alternating 110-volt currents; comprising 500 c. p. lamp with metal hood, set of three screens (violet, amber, red) with holder, crane, rheostat, cable and counter-balance weight; complete, as illustrated
6501. Leucodescent Therapeutic Lamp Outfit "F Special;" comprising 500 c. p. lamp with metal hood, crane, cable and counter-balance weight (no screen nor rheostat)
- \$125 00
100 00
- Extra Parts:
- | | |
|---|---------|
| Set of three screens (violet, amber, red) with holder | \$15 00 |
| Rheostat | 10 00 |
| 500 c. p. Lamp (globe) alone | 60 00 |
| 500 c. p. Lamp (globe) in exchange for the leading-in wires of the burnt-out lamp (globe) | 12 00 |
6502. Leucodescent Therapeutic Lamp Outfit "K Special;" comprising 400 c. p lamp with hood, crane, cable and counter-balance weight
- 87 50
- | | |
|---|---------|
| 400 c. p. Lamp (globe) alone | \$50 00 |
| 400 c. p. Lamp (globe) in exchange for the leading-in wires of the burnt-out lamp (globe) | 10 00 |
- 6503.* Therapeutic Hand Lamp, for both direct and alternating currents. Outfit comprises a 50 c. p. lamp with nickel-plated reflector, set of three screens (violet, amber, red), cable and connecting plug; complete, in neat carrying case
- 10 00



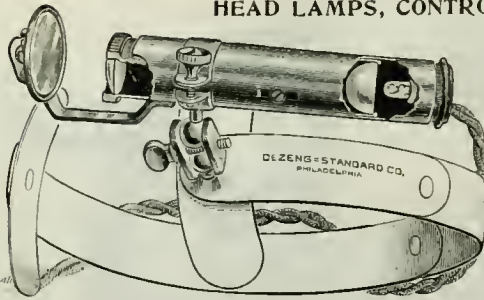
- 6504.* Electric Light Sun Bath Cabinet, with 40 lamps 280 00

Octagonal, highly polished quartered oak, double panelled; 48 inches diameter, 48 inches high; large enough to contain the patient in a comfortable sitting position.

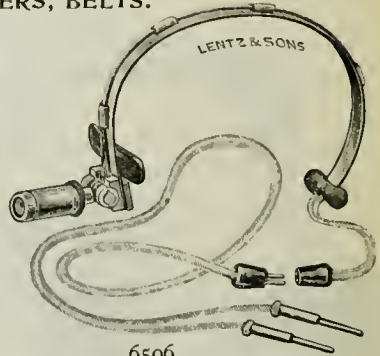
The floor and sides are lined with extra heavy French plate mirrors. The lamps are fitted through the middle line of each mirror, so as to secure the greatest amount of reflected light rays. They are wired in sections, so that any number of lights may be conveniently turned on or off for treating the whole body or any part of the body.

Electrical Apparatus.

HEAD LAMPS, CONTROLLERS, BELTS.



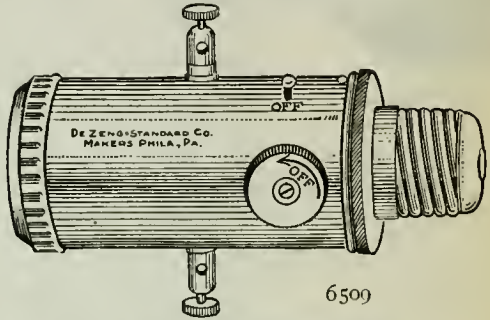
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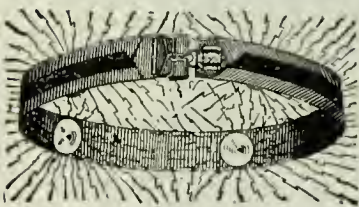
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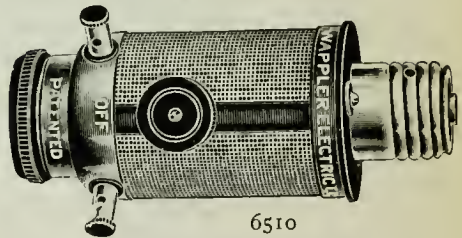
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6509



6530

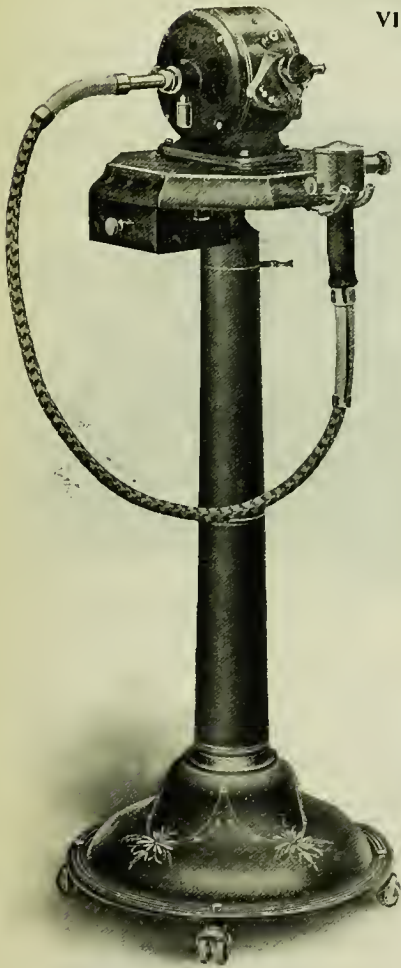


6510

- 6506.* Electric Head Lamp and Band, Lentz's latest, with adjustable focussing tube and condensing lens \$10 00
Can be operated from battery current or from electric light current through a current controller.
- 6507.* Electric Head Lamp and Band, Koser's, with 16 c. p. lamp, for direct use on the lighting current 7 50
When ordering, specify the kind and voltage of the street current. Extra lamps, 60 cents each.
- 6508.* Electric Head Lamp, DeZeng's, without band 13 50
- 6509.* Current Controller, DeZeng's, for both direct and alternating electric light currents, for all kinds of miniature lamps; fits any lamp socket 9 00
- 6510.* Current Controller, Wappler's, for both direct and alternating electric light currents, for all kinds of miniature lamps; fits any lamp socket 9 00
- 6540. Johns' Electro-Therm, Electric Heating Pad for 5 to 125-volt current, size 11 x 15 inches, 1/4 inch thick, with regulating switch, plug and 15 feet of conducting cord. No. 1 or No. 2 each 6 50
No. 1. For ordinary domestic use, to replace hot water bottles, etc.; felt covered with washable muslin slip cover; weight, 11 ounces.
No. 2. Specially for Moist Heat; rubber cloth cover; weight about 1 lb.
- 6530.* Electric Belt, Spalding's . . . 9 Cells, \$6 00; 12 Cells, \$8 00; 15 Cells 10 00†
Suspensory attachment, \$2 00 extra. State circumference of waist.

Electrical Apparatus.

VIBRATORS.



6542

6546

- 6542.* "Shelton" Portable Vibrator No. 1, for use on either direct or alternating current; including four applicators, complete in velvet-lined carrying case \$45 00
6544. "Shelton" Portable Vibrator No. 2, with alternating current motor, ohms resistance and speed controller; for use on both direct and alternating currents; including four applicators, complete in velvet-lined carrying case 48 50

The "Shelton" is one of the original small but powerful electrical hand vibrators. The motor is well built, compact and efficient. Quickly adjusted from a slight almost imperceptible stroke to one giving deep penetration or any number of gradations between these points.

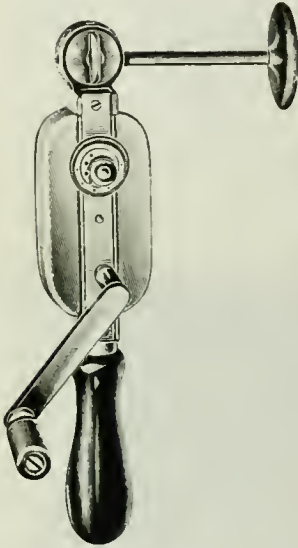
- 6546.* "Keystone" Vibrator, for 110-volt direct current; including six applicators \$60 00
- "Keystone" Vibrator, for 110-volt, 60 cycles alternating current; including six applicators 70 00

The "Keystone" possesses the distinct superiority that all the power is transmitted to the patient instead of partly to the operator's hand. It is readily adjusted for the complete variety of strokes. A rheostat permits the selection of six different speeds. The motor is powerful and will not slow down even under heavy pressure. The outfit is mounted on an iron table, supported by a neatly ornamented base and pedestal, and can be lowered and raised at will.

Correspondence Invited.

Electrical Apparatus.

VIBRATORS.



6548



6550

- 6548.* Johansen's Auto-Vibrator (patented), not electrical; including two applicators \$7 50

In this instrument we recommend a first-class *hand-power* massage vibrator. It is compact, the mechanism being concealed within the apparatus, and measuring only 11 inches in length. Easily adjustable and powerful enough to penetrate to deep-seated tissues with a wide range down to a slight tremulous motion. Gives both rubbing and tapping vibrations or a combination of the two. Other applicators of various kinds (list on application) from \$1 00 to \$1 50 each.

- 6550.* "Barker" Portable Universal Vibrator, for both 110-volt direct and alternating currents; including four applicators, in a velvet-lined carrying case 25 00

A light but powerful machine, which meets the demand for the average work which can be accomplished with a portable apparatus.

6552. "Barker" General Massage Vibrator, for 110-volt direct current and including several applicators 55 00
6554. "Barker" General Massage Vibrator, for 110-volt alternating current and including several applicators 65 00

Mounted on pedestal of quartered oak, finely finished. The motor is encased in a wooden box to match the pedestal, and can be detached to be carried separately. If the case is not desired, deduct \$5 00 from the price of either outfit.

Correspondence Invited.

SECTION XVII.

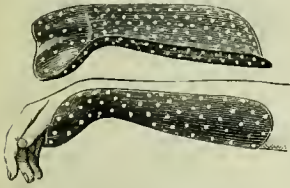
Splints.

PERFORATED METALLIC SPLINTS.

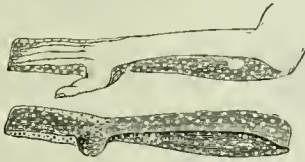
Flexible, Nickel-plated. Conformable to every size and condition of Limbs. Very Light and Indestructible.

The copper used in the manufacture of these splints being less than *one-eightieth* of an inch in thickness, makes them *very light* and readily conformable by bending so as to suit the peculiarities of any limb, and yet the splints when applied are as firm as the heaviest wooden appliances.

All of "Levis" Splints are made in at least two sizes, "Adults" and "Children's," and a number of them are also made in a smaller size, "Infants'."



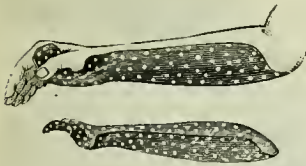
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No. 12



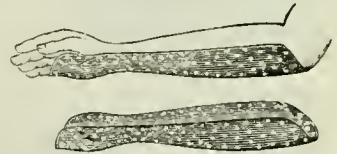
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No. 11



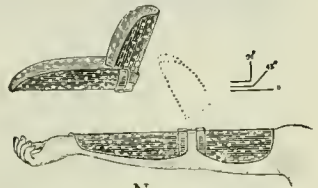
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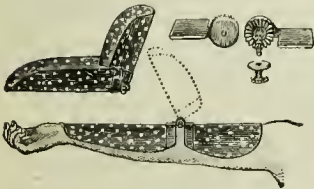
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No. 2



No. 22



No. 3



No. 5



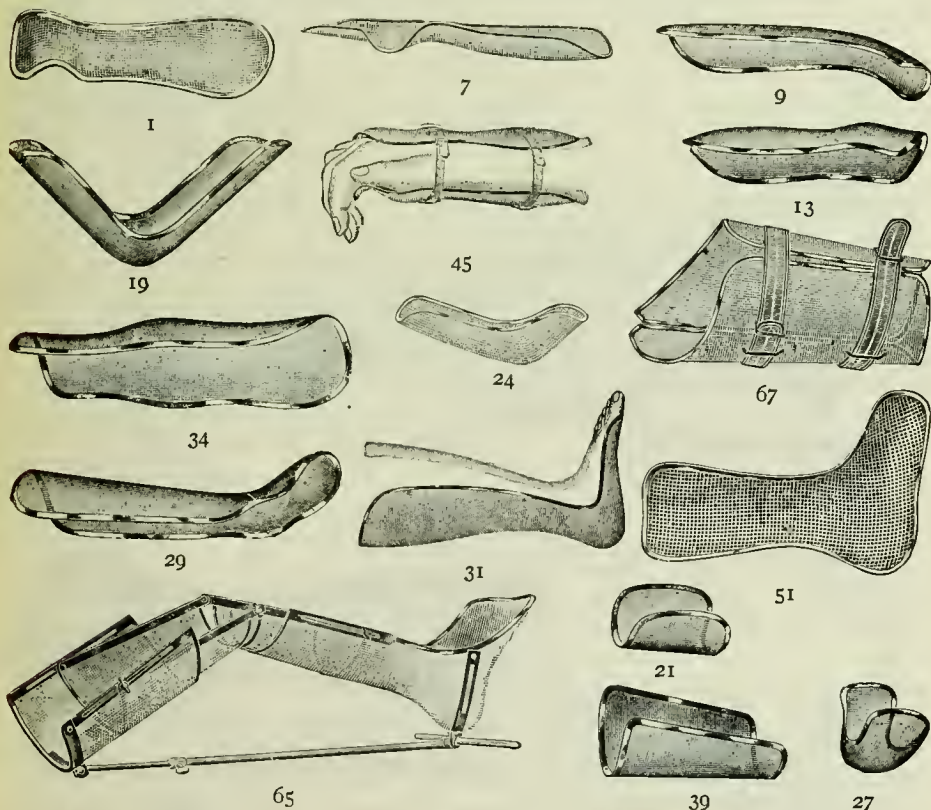
No. 6

Levis' Perforated Metallic Splints		Adult	Child	Infant
1*	Radius Splint right or left	\$1.00	\$1.00	\$.75
12*	Combined Forearm Splint " " "	1.00	1.00	.....
13*	" " Improved Bond's " " "	1.00	1.00	.....
4*	Phalanges Splint for fractures of fingers or toes .	.15	.15	.10
11*	Metacarpal Splint (price does not include any Phalanges Splints) right or left	.75	.75	.....
18*	Ulna or Forearm Splint " " "	1.00	1.00	.....
19*	Posterior Elbow Splint, acute angle	1.00	1.00	.....
20*	" " " right angle	1.00	1.00	.....
21*	" " " obtuse angle	1.00	1.00	.....
2*	Adjustable Angular Elbow Splint " " "	1.50	1.50	1.15
22*	" " " improved	1.50	1.50	.....
3*	Humerus Splint	.50	.50	.35
5*	Clavicle "	.75	.75	.50
6*	Maxilla "	.75	.75	.50

Splints.

DE PUY'S ADJUSTABLE WIRE SPLINTS.

Made of brass wire cloth with the edges soldered and protected by a semi-pliant metallic covering. *Will not rust nor oxidise.* The nature of the material gives all the ventilation possible, or desired, and in the event of a wound permits of its being dressed through the meshes without the removal of the splint, and if there be any suppuration the secretions can work off. The surface of the exterior is rough, hence a bandage can never slip. These splints offer but immaterial resistance to the X-ray.

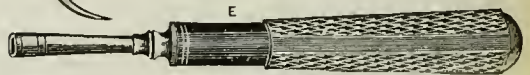
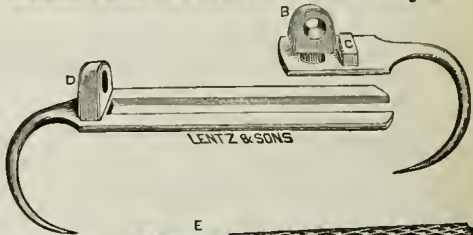
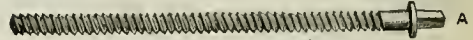
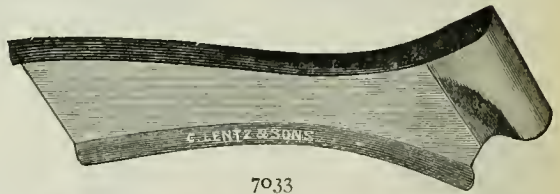
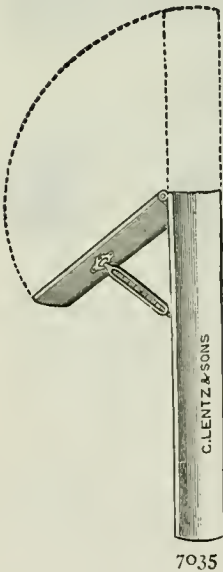
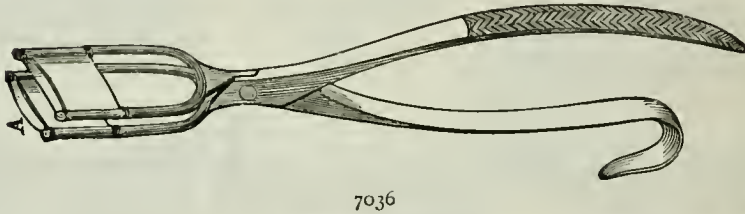
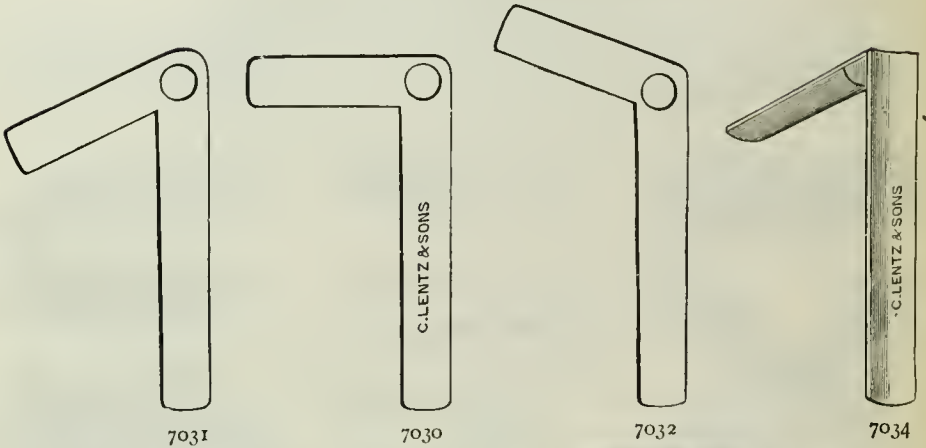


No.	De Puy's Adjustable Wire Splints.	Adult	Child	Infant
1*	Radius Splint right or left	\$1.00	\$0.75	\$0.25
7*	Forearm and Hand Splint " " "	1.00	.75	....
9*	Posterior Forearm Splint " " "	1.00	.75	....
13*	Ulna Splint " " "	1.00	.75	....
45*	Colles' Fracture Splint, improved	2.50	2.50	....
19*	Posterior Elbow Splint	1.00	.75	.50
21*	Humerus Splint . . . . .	.50	.35	.15
24*	Clavicle Splint . . . . .	.75	.50	.25
47	Hawes' Clavicle Splint	2.00	2.00	....
27*	Maxilla Splint . . . . .	.50	....	.15
67*	"Special" Femur Splint	2.00	1.50	1.00
34*	Anterior Patella Splint	1.00	.75	....
36	Posterior Patella Splint	1.00	.75	.25
29*	Anterior Tibia and Fibula Splint	1.00	.75	.50
31*	Posterior Tibia and Fibula Splint	1.25	1.00	.50
51*	External Ankle Splint right or left	1.00	.75	.50
52	Internal Ankle Splint " " "	1.00	.75	.50
65*	DePuy's Combination Splint	10.00	10.00	....
39*	Utility Splint . . . . .	.75	.50	.25

Discount on sets of 21, 27, 35 or 60 pieces. Lists on application.

Splints.

WOOD SPLINTS AND FRACTURE APPARATUS.

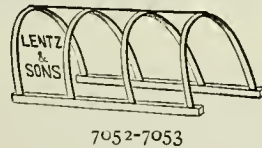
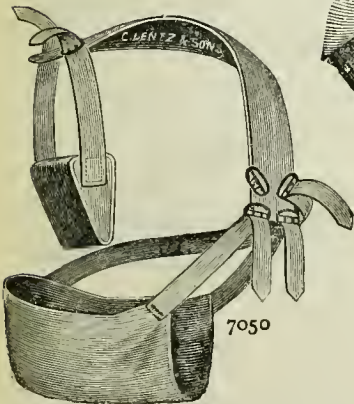
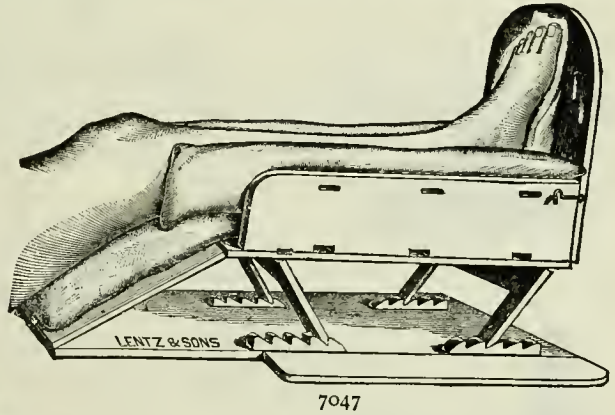
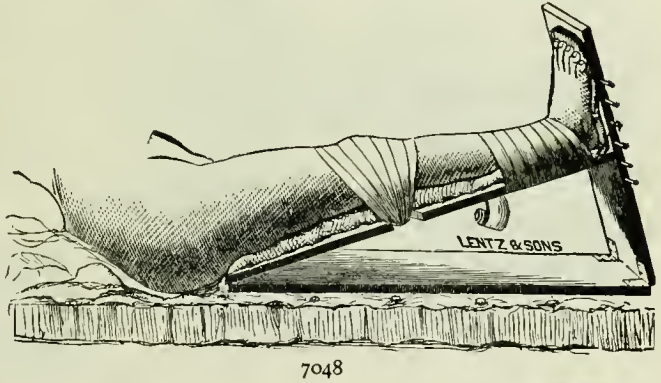
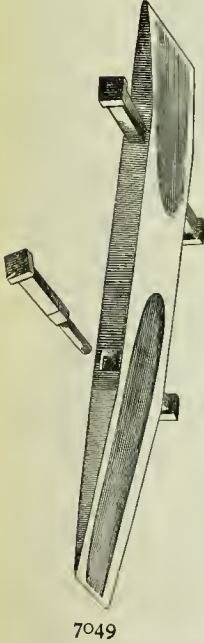
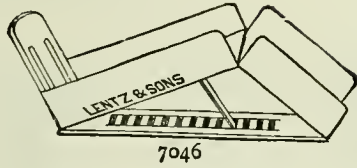
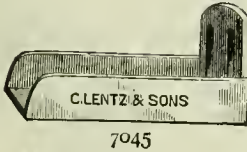


- 7030.* Splint, Internal Angular, for arm, six sizes, right angle each \$0 35
- 7031.* " " " " " six " acute " " 35
- 7032.* " " " " " six " obtuse " " 35
- 7033.* " for fracture of the radius, Bond's, right and left, five sizes. " 50
- 7034.* " Anterior Angular, arm, four sizes and different angles. " 60
- 7035.* " Stromeyer's, for fractures or partial ankylosis of the arm or knee joint, small sizes, each, \$2.25; medium, each, \$2.50; large " 2 75
- 7036.* Instrument for reducing dislocation of phalanges 3 75
- 7037.* Patella Hooks, Levis' modification of Malgaigne's 4 50

◀ **Clamps for un-united fractures, see page 44.**

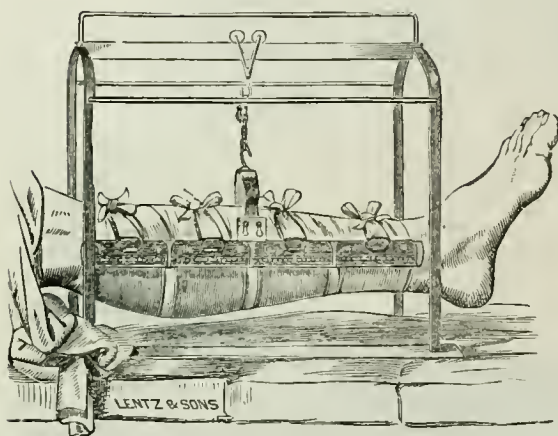
*All articles illustrated are designated by a *.*

Fracture Apparatus.

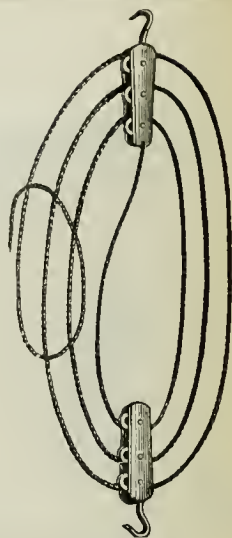


7045.*	Fracture Box, hinged sides, small, \$2.50; medium and large.	each	\$3 00
7046.*	" " " " double inclined plane, two sizes	"	5 50
7047.*	" " " " elevated, 'Petit's' " "	"	7 50
7048.*	Patella Splint, Hamilton's, two sizes	"	4 00
7049.*	" " Agnew's, " "	"	4 00
7050.*	Clavicle " Levis', " " child and adult	"	3 50
7051.	" " Fox's, " "	"	3 75
7052.*	Frame for supporting the weight of the bed covers, for limb, 12 x 24 in. "	"	2 75
7053.*	" " " " " " " " body, 24 x 36 in. "	"	3 50

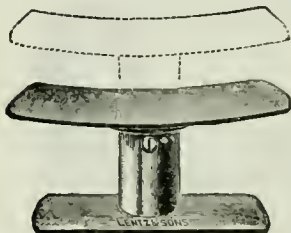
Fracture Apparatus.



7061



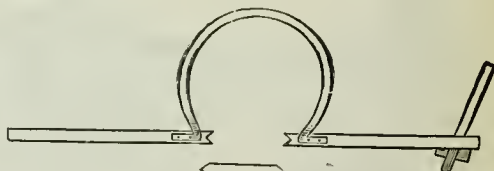
7060



7063

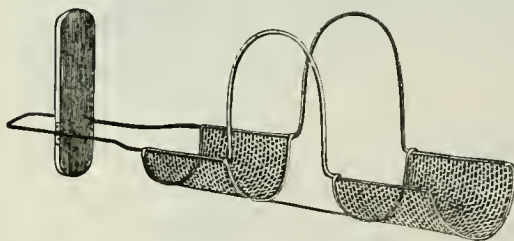


From above



From the side (slide removed.)

7064



7065

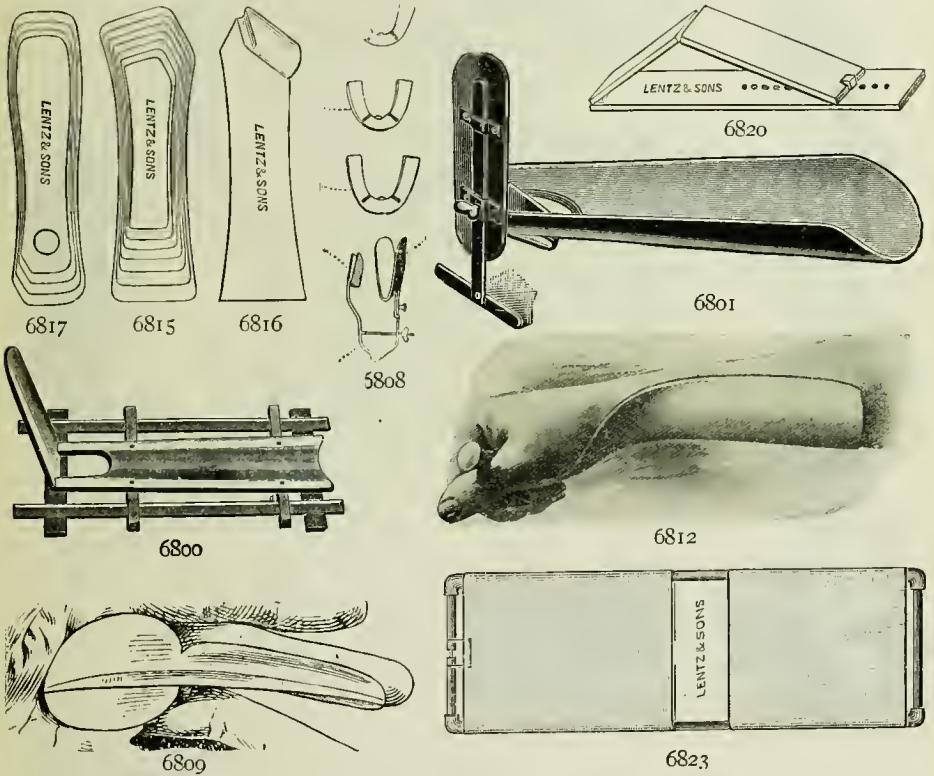


7062

- 7060.* Compound Pulleys and Cord for Dislocations per pair \$3 00
- 7061.* Salter's Fracture Cradle or Swing 15 00
- For protecting a fractured limb from the pressure of the bed-clothes, and to permit change of position without the risk of displacing the bones. It is a frame resting upon the bed and having on its central bar a small railway, upon which travel two pulleys, suspending by a chain the wounded limb (placed in such splinting as the surgeon may select).
- 7062.* Support for applying body bandages, wood base with thin metal plate . . . \$3 75
- 7063.* Hip Support, metallic, McBurney's telescopic 5 00
- 7064.* Splint, Packard's, for knee resection 4 50
- 7065.* " Ashurst's, " " " 5 00
- 7066. " Ashurst's, of wire, for excision of ankle 3 50
- 7067. " Esmarch's Interrupted, for excision of wrist or elbow each 3 00
- 7068. Allis' Apparatus for the reduction of shoulder and hip dislocations 15 00

Fracture Apparatus.

SPLINTS AND MATERIAL.

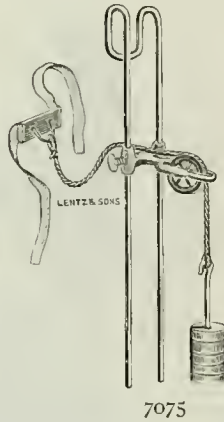


- 6800.* Sliding Leg Rest, Volkmann's, wood . . . small, \$3 75; medium, \$4 25; large \$4 75
An oblong frame resting on double track, so that the frame and leg may move back and forth. The foot piece not only holds the limb in place, but prevents rotation.
- 6801.* Adjustable T Leg Splint, Volkmann's, metal; small, \$3 50; med., \$4 50; large 5 00
- 6802. Double Incline Plane Splint, Pratt's, wood; small, \$4 00; med., \$4 50; large 5 00
- 6803. Extension Bar Splint, with adjustable foot piece, Pratt's; two sizes;
child size, \$4 50; adult size 5 00
- 6804. Ankle Splint, Pratt's, carved wood, right; small, \$1 00; med., \$1 25; large 1 50
- 6805. " " " " left; small, \$1 00; med., \$1 25; large 1 50
- 6808.* Interdental Jaw Splints, Matas', metallic; for the treatment of fracture of the lower jaw. Mouth-pieces are supplied in three sizes, adult, youth and child; chin-pieces in two sizes complete set 12 00
- 6809.* Phalanges Splint, aluminum, one size 15
- 6810. Stockinette Material, seamless; used when applying plaster of Paris; per yard, 2½ in., 20c.; 4 in., 25c.; 6 in., 30c.; 8 in., 35c.; 10 in. 40
- 6812.* Splint for Colles' Fracture, Walker's, made of lignine composition, in five sizes, right and left each, \$1 00; complete set of 10 splints 7 50
- 6815.* Posterior Forearm Splints, Murphy's, for Colles' fracture; set of seven sizes 75
- 6816.* Bond's Splints, wood, without leather sides, five sizes each 35
- 6817.* Lateral Leg Splints set of four sizes 75
- 6820.* Leg Support and Double Incline Plane Splint, two sizes each 1 50
- 6823.* Bradford's Frame; used in the treatment of various orthopedic diseases of tubercular origin (Pott's disease, etc.). For description, see "Orthopedic Apparatus" or index. Size required, about 8 inches longer than the patient and 6 inches wider than the breadth of the shoulders. Made in three sizes, 45 x 15 inches, \$13 00; 55 x 20 inches, \$14 00; 65 x 25 inches, 15 00††

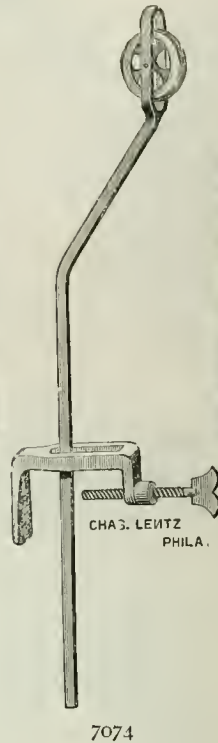
Fracture Apparatus.



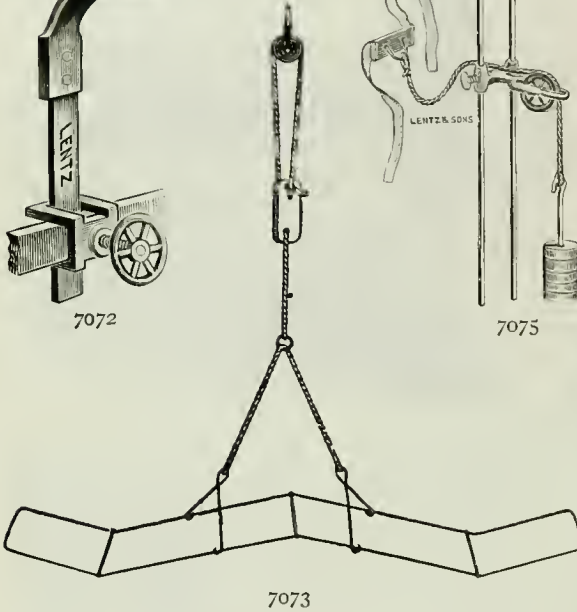
7072



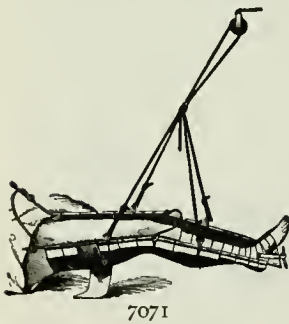
7075



7074



7073



7071

7071.* Suspension Apparatus, Hodgens', complete with cords and pulleys, adjustable \$8 00

Consists of a wire frame of lateral bars held in position by over-bows of iron. The lower portion is formed of gauze strips, or wide bandages. Extension may be secured by adhesive plaster. The whole may be suspended from the ceiling, wall, or other convenient place.

7073.* Anterior Splint and Suspending Apparatus, Smith's, for fractures of the leg and thigh, complete with cords and pulley \$3 00

7074.* Extension Apparatus, Levis', to attach to wooden bedstead; with set of weights, in wood box 5 00

Provided with adjustable clamp for fastening and adjusting the rod at the required elevation. The amount of weight extension is effected by a series of one-pound weights suspended on a rod with hook. The weights will not slip off, but are added or removed near the top, where the rod is flattened to fit the groove of the weights.

7075.* Extension Apparatus, Frazier's, to attach to iron bedstead 1 25
Complete with set of weights, block and cord, in wood box 4 00

7072.* Extension Apparatus, Lentz's, to attach to metal bedstead 1 50
Complete with set of weights, block and cord in wood box 4 25

7076. Sand Bags, 18 in., 75c.; 24 in., \$1 00; 32 in., \$1 50; 48 in., \$2 00; 60 in. 2 50

Fracture Apparatus.

AMBULATORY PNEUMATIC SPLINT

For the Treatment of Fractures of the Hip, Thigh, Patella, Leg and Ankle, and of Cases of Non-Union, Knee-Joint or Hip-Joint Disease. Adjustable to Right or Left Limb.



Showing patient in street costume walking with Ambulatory Pneumatic Splint with comfort and perfect safety.

The Ambulatory Pneumatic Splint is a boon to patients because it permits them to be "on their feet" with perfect safety long before this would be possible without its use.

The physician also derives the greatest satisfaction from employing this splint in his practice, because he feels assured that its use will result in bone-union without shortening or deformity.

With the employment of this splint the reduction of fractures becomes comparatively easy, but also accurate and reliable, and the broken bones are sure to be retained in their proper position.

It is employed with great success in all cases where extension, counter-extension and immobilization are desired while the patient is in the recumbent (bed) or ambulatory (walking) position.

It is an open dressing, permitting of frequent inspection, bathing, dressing to injuries of the soft tissues, ventilation, massage and of early, painless use of the limb with perfect safety.

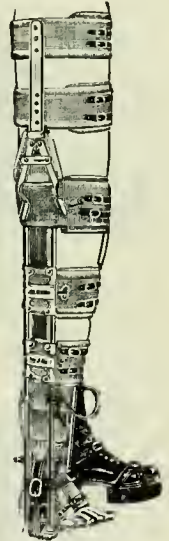
It permits the application, if desired, and supporting of an apposition splint for leg or thigh fracture, for which purpose buckling straps are furnished for adhesive strap traction—in connection with the pneumatic cushions on and between the bony prominences of the ankle and foot and tuberosity of the ischium.

It is made and finished in a first-class manner, of the very best quality of light seamless steel tubes, with adjustable screws, and cushions of webbing and flannel containing pure rubber air cushions with adjustable valves. It will wear for years, and being washable, may be applied any number of times for the various purposes for which it is used.

DIRECTIONS FOR ORDERING.

State: Nature of fracture? Length of limb from sole of foot to perineum? Circumference of thigh at pelvis? Right or left limb? Shoe for male or female? If for fracture of upper third or neck of femur or hip joint disease, also state: Circumference of hips? Around chest? Length from sole of foot to arm-pit?

With this information we will send splint adjusted, ready to comfortably fit patient, with all parts fully tagged and application notes enclosed.



7081

Showing application of splint with hip joint immobilizing attachment, padded belts for fractures of the femur, neck of the femur or hip joint disease. Also showing adhesive strap traction with posterior padded card-board splint and lock-joint feature which permits patient when in recumbent position to recline or to sit down, as may be directed by the surgeon.

Price, \$50.



7080

Showing application of splint with posterior padded cord-board splint for fractures of the leg, knee and ankle.

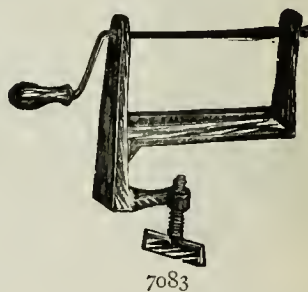
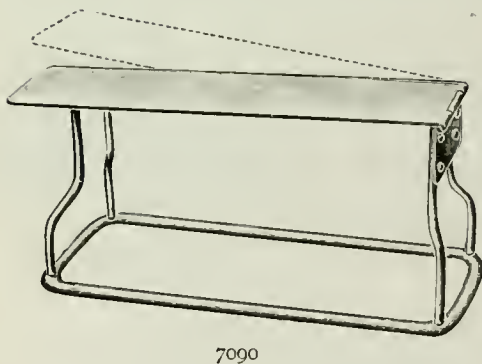
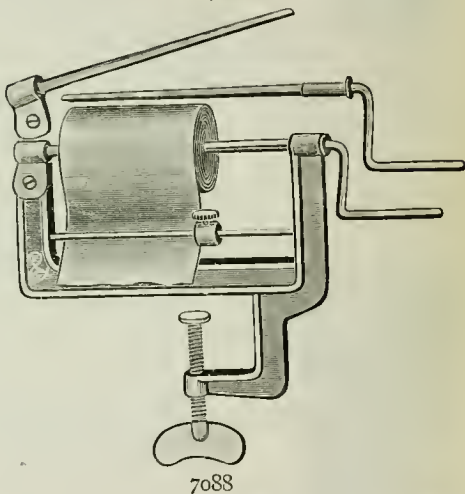
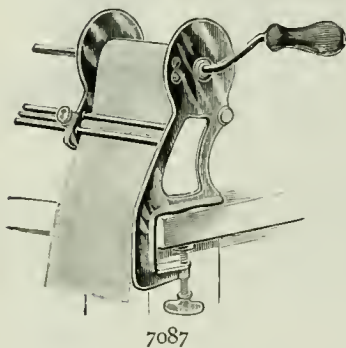
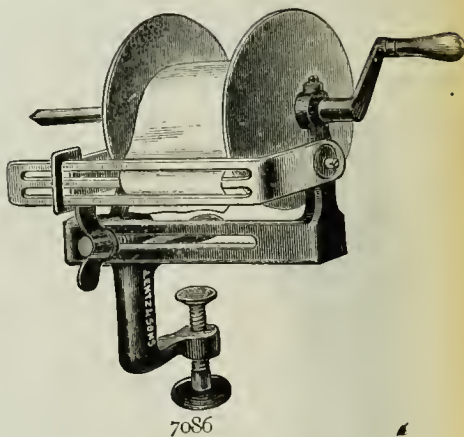
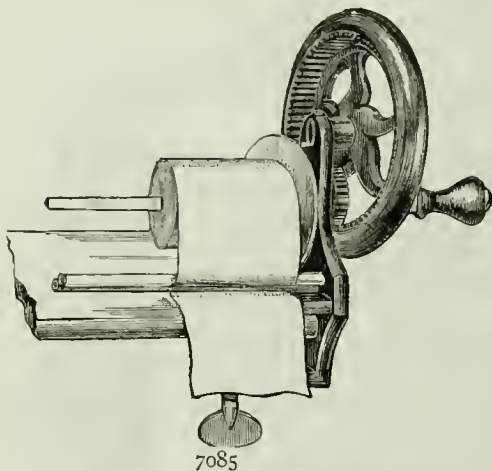
Price, \$40.

PRICES.

- 7080.* Ambulatory Pneumatic Splint, with shoe, little key and pump \$40 00
- 7081.* Ambulatory Pneumatic Splint, with hip-joint immobilizing attachment, and with shoe, little key and pump 50 00
- Compound Key (for lengthening or shortening four screws of splint together) 5 00
- Case for complete outfit 5 00

NOTE.—The splint is made in two sizes, adult and child. It may be applied to either limb and adjusted to patients of various sizes.

Bandage Rollers.



- 7083.* Bandage Roller, plain, adjustable to any table \$0 60
- 7085.* " " Crocker's 3 75
- 7086.* " " German pattern, all metal, nickel plated 4 00
- 7087.* " " Jobse's plain, \$1 25; nickel plated 1 75
- 7088.* " " Pelton's 1 50
- 7090.* Support for applying body or leg bandages, metal, nickel plated 6 00

(See also page 506.)

All articles illustrated are designated by a *.

Section XVIII.

Trusses, Abdominal Supporters, Elastic Hosiery, Etc.

TREATMENT OF HERNIA WITH MECHANICAL APPLIANCES.

We give our especial attention to the mechanical treatment of Hernia or Rupture, and having at our command a large and most complete stock, combined with daily practical experience during many years, we are in a position to successfully treat at our Application Department the most difficult and complicated cases.

Mail orders are filled promptly, generally immediately on receipt of them, and they have our utmost care. Any cases which the physician may describe to us, will be studied carefully and the proper appliance selected.

The prices of Trusses, Abdominal Supporters, etc., given on the following pages, are the PRICES TO PATIENTS. From these prices we allow physicians discounts as follows :

§ Trusses	pages 516 to 528,	50% ; if applied by us 25%.
□ Abdominal Supporters	“ 530 to 534,	25% ; “ “ “ 20%.
□ Elastic Hosiery	“ 537,	25% ; “ “ “ 20%.
□ Shoulder Braces	“ 538 to 539,	25% ; “ “ “ 20%.
†† Suspensories	“ 540,	25% ; “ “ “ 20%.

When we are required to take measurements or to fit any appliance at patient's residence or at hospital, we will make a reasonable additional charge to compensate us for time and expense.



View of Third Floor showing six Fitting Rooms

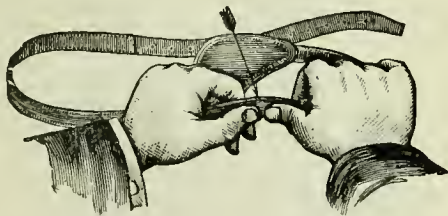
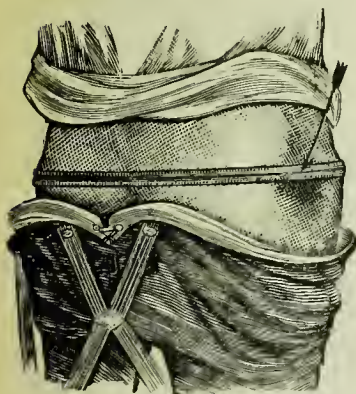


View of Fourth Floor. Electrical Apparatus and Furniture

Trusses for Hernia.

With an experience in the manufacture and application of trusses which has extended over a period of many years, and aided by the practical advice of many eminent surgeons with whom we have been brought into contact in the treatment of complicated cases of Hernia, we are enabled to adapt apparatus successfully to every form of this affliction. Our patrons may be assured that we will spare neither labor nor expense to produce appliances that will meet their requirements and to maintain our reputation for superiority of material, excellence of workmanship and correctness of shape in this line of goods.

DIRECTIONS FOR FITTING AND SHAPING.



Place the patient in a reclining position, and reduce the Hernia; this will show you the exact size and location of hernial ring. But if in doubt as to size, carefully plug the hernial ring, using the tips of one or more fingers, as may be found necessary, then let the patient rise and test the accuracy of your judgment by coughing, or otherwise putting pressure on the bowels. The amount of pressure used and size of

plug found necessary, will guide in selecting strength of spring and size of pad required; the location of the Hernia indicating the style of truss necessary. Make sure of these points; then, if form is irregular in shape, see that spring is adjusted properly, as shown above, using *all* fingers, the *thumbs* doing the bending, while the fingers hold and brace the spring and spread the strain, thus lessening chances of breaking in shaping. Never give the spring a sharp bend, or force shape too rapidly, but humor carefully.

Our springs are made of such shapes as a long experience has shown us to be suited to most cases, but the human form varies so in shape, that to fit a truss properly and give perfect satisfaction, it will be found necessary in many cases to slightly reshape as above directed.

DIRECTIONS FOR ORDERING—READ CAREFULLY.

In ordering trusses, observe the following directions:

State whether hard-rubber or leather trusses are wanted.

State whether for *Inguinal*, *Scrotal*, *Femoral* or *Umbilical Hernia*, whether right or left, or double, and the circumference of the body, one to two inches *below* the tips of the hips, avoiding the fullness of the abdomen; state pressure required, shape of form, size of Hernia and general appearance.

For an *Umbilical Hernia*, the circumference of the body at line of rupture, size of rupture and the pressure required.

Particular attention should always be paid to giving an accurate description, as to size of Hernia, whether reducible or otherwise, general appearance, and peculiarities. Length of time ruptured, sex, age, weight, and occupation, when mentioned, better enable us to successfully meet requirements.

Regular sizes of Adults' Trusses are from 30 to 44 inches; Youths' from 22 to 29 inches, and Children's from 12 to 21 inches.

Special Note.—Fitting and adjusting special cases given careful attention at our private fitting rooms by skilled male and female attendants.

For Terms and Particulars, see page 514.

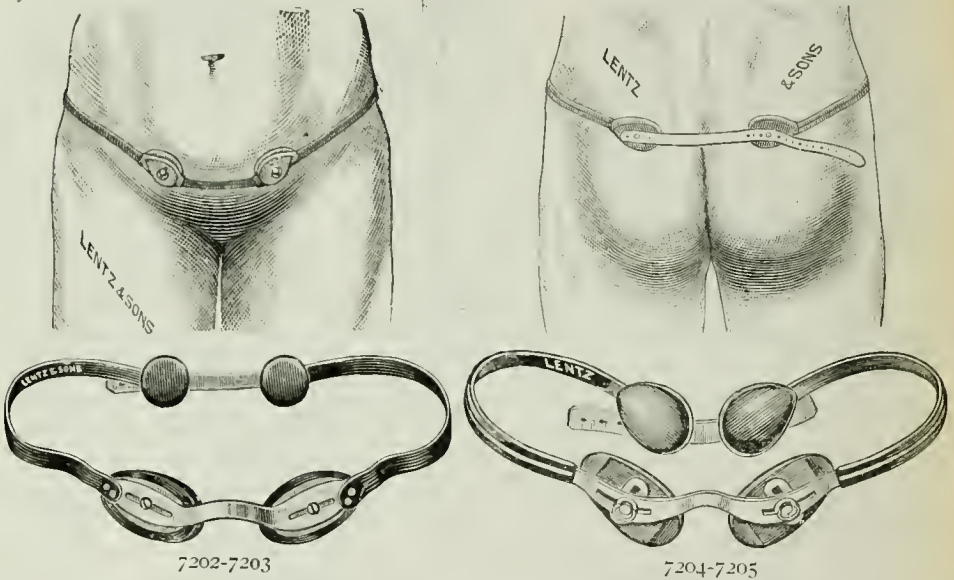
Trusses for Hernia.

HOOD'S ORIGINAL AND GENUINE PATTERN TRUSS, ADULT'S. †

During our experience in applying trusses, we have seldom met a case of Hernia which could not be relieved by the Original and Genuine "Hood" Pattern Truss. The practical knowledge obtained in fitting trusses daily enables us to manufacture these trusses of the correct pattern; this, together with the correct shapes and bearings of our pads and springs, assures appliances that are readily fitted with the certainty of giving relief and comfort. No motion, position or effort will be found to remove them from place, when properly applied to the body. Our Hood's Trusses are made of the finest materials obtainable, and are far superior to any other make of this kind ever offered.

When used as a single truss, a thin flat pad or so-called sympathetic pad is applied to the unaffected side to prevent a hernia on the unaffected side. The pads can be placed in any required position, and accurately adjusted to hold the rupture.

Hood's Truss Applied.



*Hood's Original and Genuine Pattern Truss for Single or Double Inguinal Hernia.

7200.	Hood's Truss, single, calf leather covered, with kid or hard rubber pads	\$11 00
7201.	" " double, " " " " " " " " " " " "	12 00
7202.*	" " single, hard rubber covered, with hard rubber pads	14 00
7203.*	" " double, " " " " " " " " " " " "	15 00

Hood's Truss. Plain Style

7204.*	" " single, russet leather covered, with kid pads	6 50
7205.*	" " double, " " " " " " " " " " " "	7 50
7206.	" " single, hard rubber " " hard rubber pads	8 00
7207.	" " double, " " " " " " " " " " " "	9 00

Stock sizes range from 30 to 44 inches.

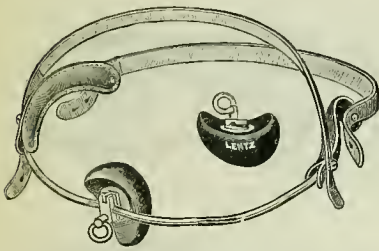
Either style truss furnished with water pads at an additional price of 75 cts. each.

SPECIAL NOTE.—We give our careful attention at our offices to the fitting and adjusting of special cases by competent male and female attendants.

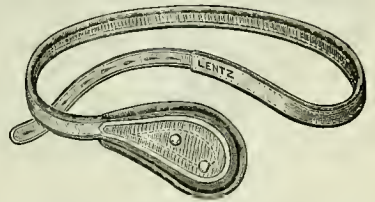
For Terms and Particulars, see page 514.

Trusses for Hernia.

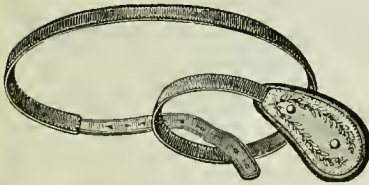
LEATHER COVERED TRUSSES, ADULT'S. §



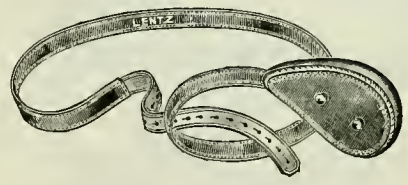
7208-7209



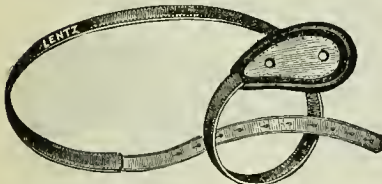
7212



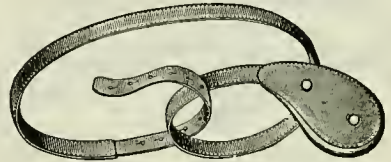
7213



7214



7216



7217-7218

“Fidelity” Truss, made of heavy nickel-plated spring wire, covered at the sides with leather to protect the hips; fastened by two straps across the back; the pads are thick and well rounded, and are made in three sizes. (The “butt” is upward when in proper position.)

7208.*	“Fidelity” Truss, single; with hard rubber pad	\$7 00
7209.*	“ “ “ “ water pad	8 00
7210.	“ “ “ “ double; with hard rubber pads	8 50
7211.	“ “ “ “ “ “ water pads	9 50

Single Trusses.

7212.*	French pattern, extra fine, calf cover, deerskin lining, well padded; with kid covered composition pad; very comfortable	6 00
7213.*	“ “ “ “ Russia calf cover, kid lining; with kid pad	4 50
7213a.	“ “ “ “ “ “ “ “ covered composition pad	5 00
7214.*	“ “ “ “ extra quality, broad calf cover; with deerskin covered pad; strong and stout pattern; suitable for inguinal as well as for scrotal hernia; very durable	5 50
7216.*	“ “ “ “ fine, calf cover; with kid pad	4 00
7217.*	“ “ “ “ medium, russet cover; with chamois pad	2 75
7218.*	“ “ “ “ plain, “ “ “ “	2 50
7219.	“ “ “ “ common	1 75

Stock sizes range from 30 to 44 inches.

Composition Pads.—Made of a compound material, a substitute for soft rubber, and light in weight as cork.

Water Pads.—A soft rubber bag filled with water, braced or shaped with a metal plate.

For Terms and Particulars, see page 514.

*All trusses illustrated are designated by a *.*

Trusses for Hernia.

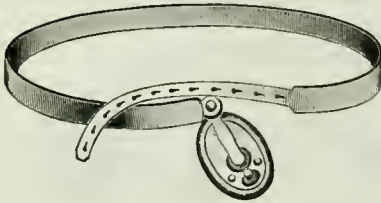
LEATHER COVERED TRUSSES, ADULT'S. §



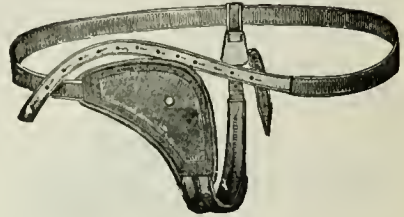
7224



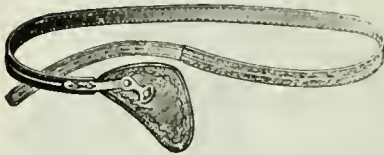
7226



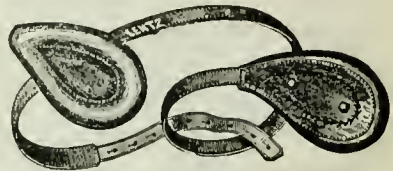
7227-7228



7229-7229a.



7230



7231

Single Trusses.

- 7224.* Chase's Genuine, russet leather cover; with hard rubber pad \$3 00
- 7225. " Femoral, fine calf cover; with hard rubber or water pad 5 00
- 7226.* Genuine Radical Cure, fine calf cover; with adjustable hard rubber oval center pad, surrounded with soft rubber ring cushion; nickel-plated fixtures; spring steel back pad. Applied from the well or opposite side 7 50
- 7227.* Set Screw or Lock Pad, calf leather cover; with hard rubber pad 4 00
- 7228.* " " " " " russet leather cover; with kid covered composition pad 3 50
Applicable to either side.
- 7229.* Rhenish, fine calf cover and large kid pad, with folded understrap; for severe cases of scrotal hernia 5 00
- 7229a.* " fine calf cover and extra large kid pad; with folded understrap 6 50
- 7230.* French Adjustable, russet leather cover, nickel-plated fixtures; with kid pad 3 50
- 7231.* " pattern, with concave pad for irreducible hernia; made to order only, according to size required. Give full details when ordering \$6 00 to 10 00

Stock sizes range from 30 to 44 inches.

Composition Pads.—Made of a compound material, a substitute for soft rubber and light in weight as cork.

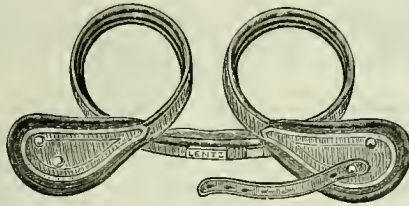
Water Pads.—A soft rubber bag, braced and shaped with a metal plate, and filled with water.

For Terms and Particulars, see page 514.

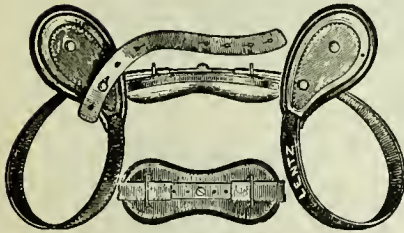
All trusses illustrated are designated by a*.

Trusses for Hernia.

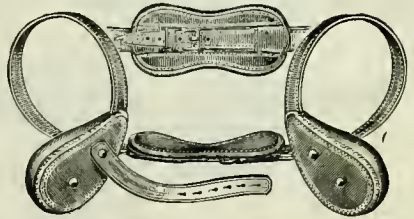
LEATHER COVERED TRUSSES, ADULT'S. §



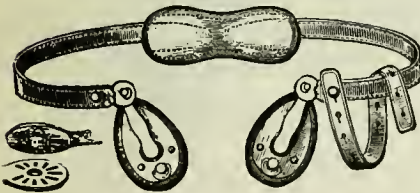
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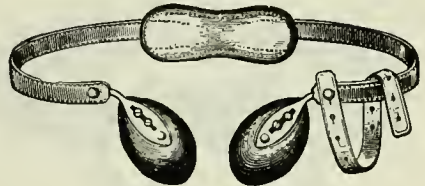
7237-7238



7239-7240



7241



7242

Double Trusses.

- 7234.* French pattern, extra fine, calf cover, well padded; with kid covered composition pads; very comfortable \$12 00
 - 7236. French, Plain; with chamois pads and flexible back pad 4 50
 - 7237.* " Medium, leather cover; with chamois pads and spring back pad 5 00
 - 7238.* " Fine, calf " " " fine kid pads " " " " 7 00
 - 7239.* " Extra Fine, calf leather cover; with composition pads 8 00
 - 7240.* " Extra Quality, broad calf leather cover; with deerskin covered pads; strong and stout pattern 10 00
 - 7241.* Set Screw or Lock Pads, calf leather cover; with hard rubber pads and soft kid back pad 7 00
 - 7242.* Chase's Genuine, russet leather cover; with hard rubber pads 5 00
- Stock sizes range from 30 to 44 inches.

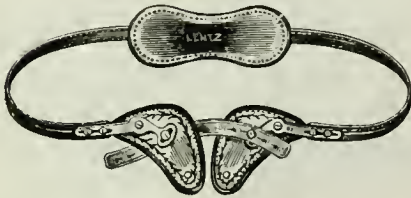
Composition Pads.—Made of a compound material, a substitute for soft rubber and light in weight as cork; much lighter than water pads.

For Terms and Particulars, see page 514.

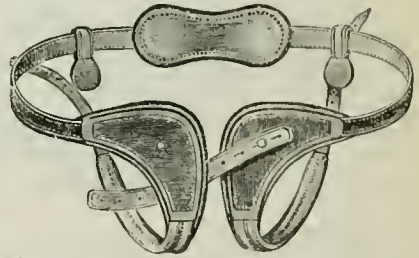
*All trusses illustrated are designated by a *.*

Trusses for Hernia.

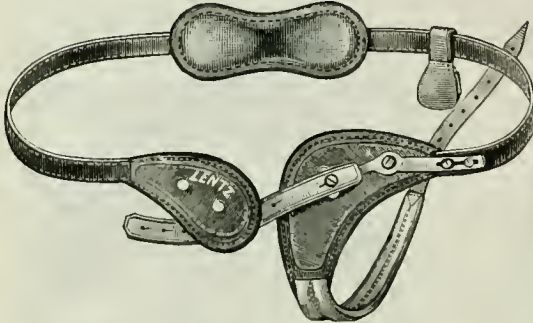
LEATHER COVERED AND ELASTIC TRUSSES, ADULT'S. §



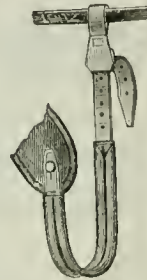
7246



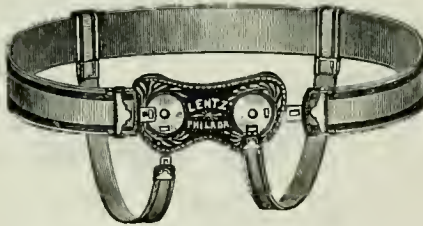
7248



7249



7250



7261-7263

Double Trusses.

- | | | |
|--------|--|------------------|
| 7246.* | French Adjustable, fine russet leather cover; with kid pads and spring back pad; nickel-plated fixtures | \$6 50 |
| 7248.* | Rhenish, fine calf cover, with large kid pads and folded understraps; for severe cases of scrotal hernia | \$10 00 to 12 00 |
| 7249.* | Combination; this illustrates how combinations can be made to order, where a double truss is needed, with a hernia on one side either extra large or very difficult to hold. Special sizes and shapes made to order, | \$10 00 to 12 00 |
| 7261.* | Elastic, extra heavy thread elastic webbing; nickel-plated fixtures; with hard rubber or kid pads | 4 00 |
| 7262. | “ Same as 7261; with water pads | 4 50 |
| 7263.* | “ extra heavy silk elastic webbing; nickel-plated fixtures; with hard rubber pads | 5 50 |
| 7264. | “ Same as 7263; with water pads | 6 00 |
| 7250.* | Adjustable Understrap, made of chamois or kid leather, with buckle loop. Can be used on any single or double truss where understraps are found necessary | each 75 . |

Stock sizes range from 30 to 44 inches.

For Terms and Particulars, see page 514.

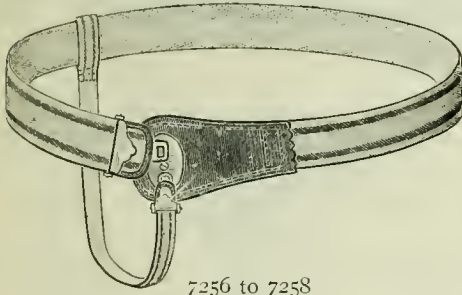
*All trusses illustrated are designated by a *.*

Trusses for Hernia.

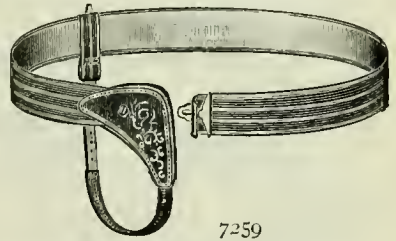
ELASTIC TRUSSES, ADULT'S. §

Trusses with Elastic Bands are excellent styles for use at night to continue the support given by a Spring Truss during the day; this assists in a Radical Cure, and a cure is only accomplished by giving a continuing support to the hernia, not allowing its protrusion at any time, which permits nature to make the cure by contracting the opening.

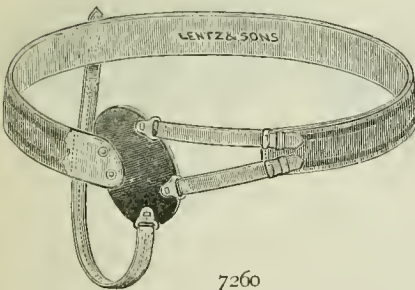
A carefully fitted Spring Truss will hold a Hernia with more comfort and is more secure under all conditions and will effect a Radical Cure more quickly than an Elastic Truss.



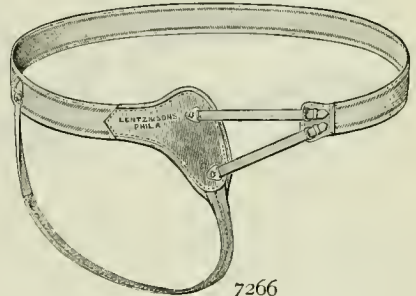
7256 to 7258



7259



7260



7266

Single Trusses.

7256.*	Elastic, reversible, for right or left side, extra heavy thread elastic webbing; nickel-plated fixtures; with hard rubber pad	\$2 50
7257.*	“ “ “ Same as 7256; with water pad	2 75
7258.*	“ “ “ “ 7256, but of extra heavy silk elastic webbing; with hard rubber pad, \$3 50; with water pad	3 75

All of the above Trusses are applied from the well or opposite side.

7259.*	Elastic, Scrotal (not reversible), extra heavy elastic webbing; with soft kid pad; suitable for scrotal hernia	3 50
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Post-Operation Trusses.

7260.*	Elastic, with flat hard rubber adjustable pad; an excellent truss for support after celiotomy, appendicitis, or any hernia operation. Applied from the operated side	4 00
7266.*	“ Estes', single; flat, chamois covered, flexible pad, with perineal strap permanently attached; thoroughly adjustable; an excellent protection and temporary support after hernia operation. Applied from the operated side	3 50
7267.	“ “ double; flat, chamois covered, flexible pads, with perineal straps permanently attached; thoroughly adjustable	6 00

In addition to circumference of the body, state length of incision, and, if single, whether for right or left side.

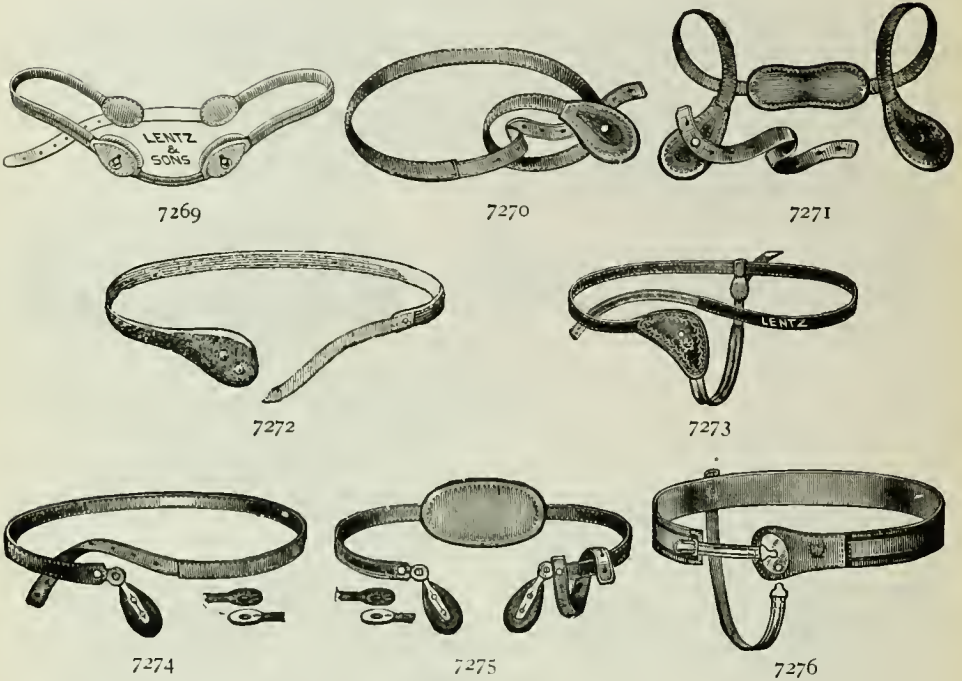
Stock sizes range from 30 to 44 inches.

For Terms and Particulars, see page 514.

All trusses illustrated are designated by a*.

Trusses for Hernia.

YOUTHS' AND CHILDREN'S TRUSSES. §



Single and Double Trusses, Leather Covered.

		Ch	Id's	Youths
7268.	Hood's, Single, russet leather cover, with kid pads	\$4	00	\$4 50
7269.*	“ Double, “ “ “ “	4	50	5 00
7270.*	French, Single, fine calf cover; with kid pad	2	00	2 50
7271.*	“ Double, “ “ “ “	3	75	4 50
7272.*	“ Single, gum elastic coated light and elastic steel spring; with stuffed pad entirely covered with a durable water-proof coating; clean and comfortable	3	00	4 00
7273.*	German Improved, Single, fine Russia calf cover, with kid pad and folded cloth understrap; well adapted for scrotal hernia	2	50	3 00
7273a.	“ “ Double, fine Russia calf cover; with kid pads and folded cloth understraps	4	50	5 50
7274.*	Chase's “ Single, russet cover; with hard rubber pad; applicable from either side	1	75	2 00
7275.*	“ “ Double, russet cover; with hard rubber pads and kid covered spring back pad	3	25	3 75

Single and Double Trusses, Elastic.

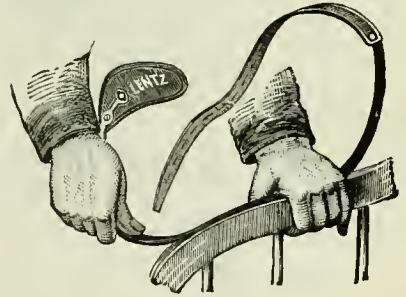
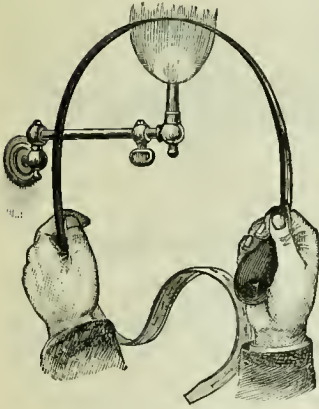
7276.*	Single, reversible, for right or left side; with hard rubber pad	1	50	1 75
7277.	“ “ with water pad	2	00	2 25
	Applied from the well or opposite side.			
7278.	Double, similar to 7276; with hard rubber or water pads	3	00	3 50
	Child's sizes are 10 to 21 inches.			
	Youth's sizes are 22 to 29 inches.			
7279.	Adjustable Understrap, made of chamois or kid leather, with tape loop. Can be used on single or double trusses where understraps are found necessary	35		35

For Terms and Particulars, see page 514.

*All trusses illustrated are designed by a *.*

Trusses for Hernia.

HARD RUBBER-COVERED TRUSSES, ADULT'S. †



For many cases of Hernia we would recommend the Hard-Rubber Trusses. In these Trusses the finest grade of steel springs are used, combining elasticity, toughness and proper shape, essential in adjustment and use, and being covered with highly-polished hard-rubber they are unaffected by time, use or climate, and may be worn in bathing. All our Hard-Rubber Trusses have nickel plated mountings.

On the following pages we illustrate the most perfect styles and patterns now in use, and in our appliances the profession have at command trusses of such practical shapes that they fit the largest average of cases without manipulation, and when adjusted properly can be depended on to retain the hernia.

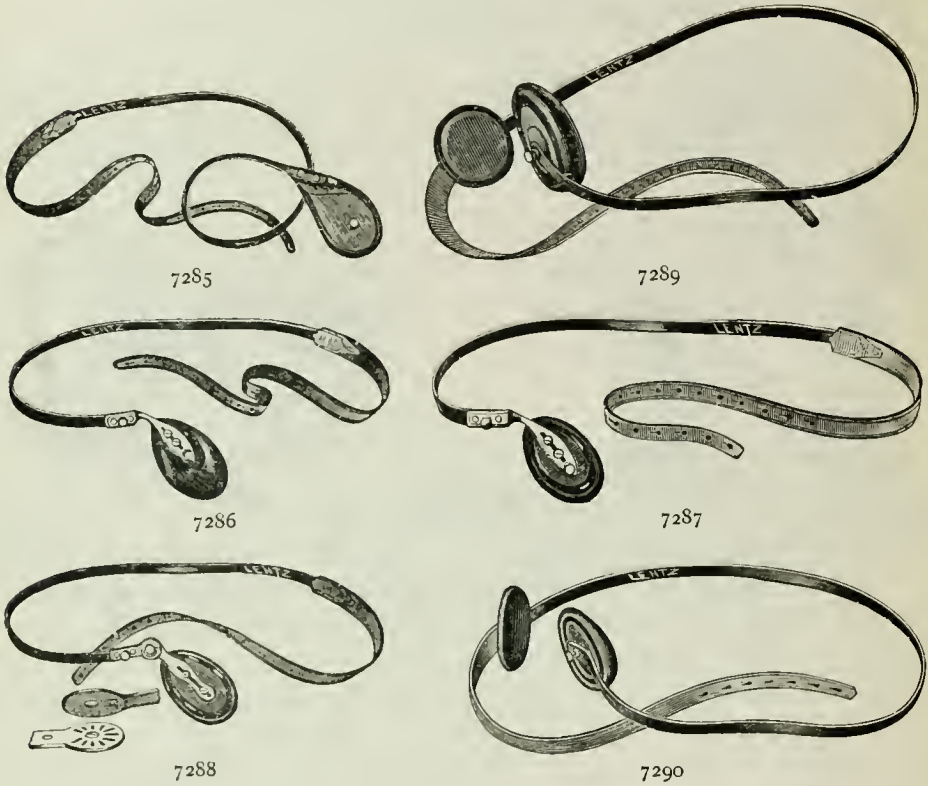
Many physicians and surgeons in Philadelphia and vicinity usually send their patients to us to be fitted, as we have a full knowledge of the mechanical treatment of hernia, and carry in stock a large assortment of trusses to select the most suitable pattern for each case.

Directions for Shaping Hard Rubber Trusses.

Pass through a flame, made by a gas jet, spirit-lamp, or twisted paper, pass quickly back and forth the Spring to be manipulated, until warm (not hot) to the touch, when the Truss is in proper condition to shape to the form required. Then manipulate it the same as you would a Leather Covered Truss, or over arm of chair as shown, and when cool the rubber will be found to have taken the new set or shape given the Spring. To increase the power of Truss, warm as described above, then draw Spring well together, holding it until entirely cool; to weaken power, warm as shown above, then open gradually, or bend carefully over arm of chair, holding open until cool.

Trusses for Hernia.

HARD RUBBER-COVERED TRUSSES, ADULT'S. †



Single Trusses.

- 7285.* French pattern, very light and elastic spring, suitable for incipient cases of hernia, when only light pressure is required. Can also be supplied with strong spring when specified \$4 50
- 7286.* Chase's Genuine, with improved nickel plated wrought metal malleable neck, not reversible 5 50
- 7287.* " Femoral, with wrought neck, can be properly shaped to give the support required in this form of hernia; not reversible 5 50
- 7288.* " Improved, with reversible clutch joint fixture; applicable to either side 5 00
- 7289.* English, or Cross Body pattern, with continuous spring, and hip pad 5 50
Applied from the well or opposite side, reversible to right or left.
- 7290.* Femoral Cross Body pattern, with hip pad 5 50

This style is not reversible, but is made both Right and Left, and has a spring especially shaped for Femoral Hernia, so that it will give the best support for this most dangerous form. It is fitted with a suitable hernial pad.

For Irreducible Femoral Hernia, we can make a Concave Hard Rubber Pad, if hernia is of moderate size, or an Aluminum Pad if of a larger size. Give size of hernial tumor after all is returned to abdomen that can be.

Water pads can be applied to any of the above Trusses; additional, 75c.

Stock sizes range from 30 to 44 inches.

For Terms and Particulars, see page 514.

All trusses illustrated are designated by a.*

Trusses for Hernia.

HARD RUBBER AND CELLULOID COVERED TRUSSES, ADULT'S. §



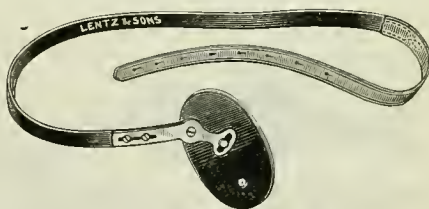
7294



7298



7295



7297

Single Trusses.

- 7294.* French, Adjustable; the pad can be moved laterally by regulating it at the set screw on the fixture \$5 50
- 7295.* Set Screw or Lock Pad, with reversible clutch joint fixture and powerful leverage; reversible to right or left 5 50
 Water Pads can be applied to 7294 and 7295 Trusses; additional, \$1 00.
- 7297.* Adjustable, Post-Operation pattern, with flat hard rubber pad, which can be moved laterally to conform to the angle of the incision and then secured by the set screw to the metal fixture. For use after celiotomy, appendicitis, or any hernia operation. Applied from the operated side 6 00
- 7298.* Cross Body, Post-Operation pattern; continuous spring, celluloid covered; light in weight and sanitary. Flat and perforated celluloid pad, thoroughly adjustable. For support after appendicitis or ventral hernia operation. Applied from the well or operated side 8 00

In addition to circumference of the body, state length of incision, and whether for right or left side. See directions on page 529.

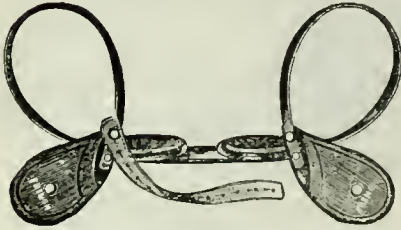
Stock sizes range from 30 to 44 inches.

For Terms and Particulars see page 514.

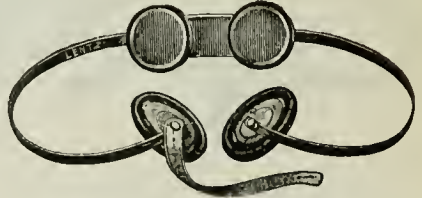
All trusses illustrated are designated by a.*

Trusses for Hernia.

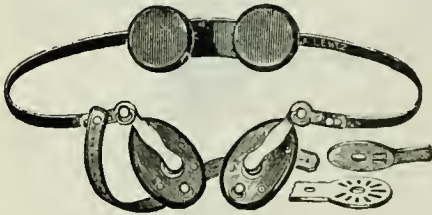
HARD RUBBER COVERED TRUSSES, ADULT'S. ‡



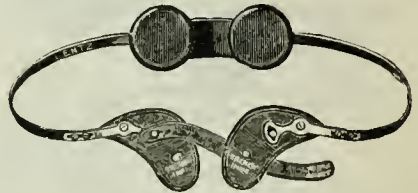
7300



7301



7303



7302

Double Trusses.

- 7300.* French pattern, very light and elastic springs, best pattern for incipient cases of hernia, can also be supplied with strong spring when specified . . . \$3 00
 - 7301.* English pattern, with plain convex hollow pads or with convex pads much thicker at lower end 8 00
 - 7302.* Freuch Adjustable; the pads can be moved laterally by regulating them at the set screws of the fixtures 9 00
 - 7303.* Set Screw or Lock Pad, with reversible clutch joint fixtures and powerful leverage 10 00
- Water Pads can be applied to any of the above trusses; additional 1 50

Spring Back Pad.—Double Trusses are always sent with spring back pads, unless otherwise ordered; the spring back is formed by a tempered steel spring, covered with hard rubber and fastened to the two back pads, with screws running in a slot for adjustment, thus giving the advantage of a continuous spring with adjustment. This style of back pad is used on all our double hard rubber trusses.

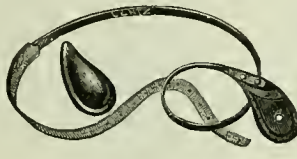
Stock sizes range from 30 to 44 inches.
For Terms and Particulars, see page 514.
All trusses illustrated are designated by a.*

Trusses for Hernia.

YOUTHS' AND CHILDREN'S TRUSSES. \$



7309



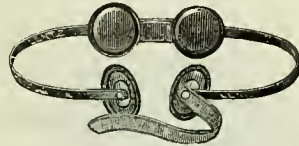
7310



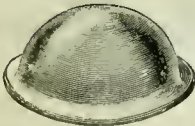
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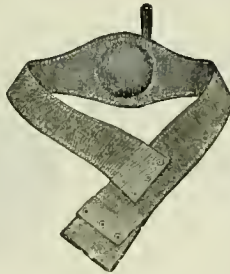
7312



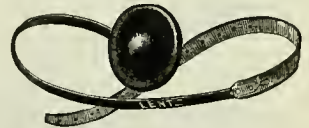
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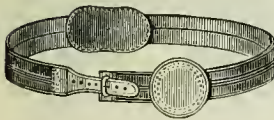
7319a



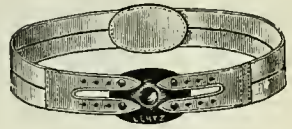
7317



7314



7315



7316

Single and Double Trusses, Hard Rubber.

	Child's	Youth's
7308. Hood's, Single	\$4 50	\$5 00
7309.* " Double	5 00	5 50
7310.* French pattern, Single, very light and elastic spring	3 00	3 50
7311.* " Double, very light; with spring back pads	5 50	6 50
7312.* English Cross Body pattern, Single, reversible to right or left; with or without hip back pad. Applied from well or opposite side	3 00	3 50
7313.* English pattern, Double; with spring back pads	5 50	6 50

Umbilical Trusses.

7314.* French pattern; hard rubber spring and pad	3 00	3 50
7315.* Elastic; double web belt, with kid pads	1 75	2 00
7316.* Elastic; thread elastic bands; with hard rubber shell pad; extremely light weight. (Will not get out of shape.)	2 00	2 25
7317.* Pure Gum Elastic, with inflatable pad; laces at back; this belt will not slip; can be worn with comfort and washed daily if desired. Made in nine sizes from 10 to 18 inches	2 00	
7318. Elastic; thread elastic band 1½ in. wide, with soft sponge-rubber pad; very comfortable	2 25	2 50
7319a.* Umbilical Button, aluminum; three sizes each	50	
7319b. " " hard rubber; " each	60	

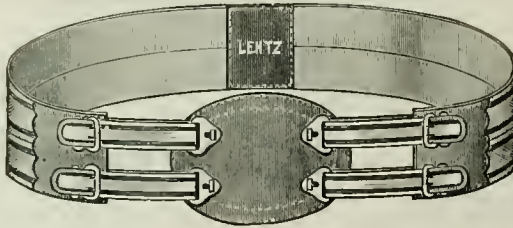
Child's sizes are 12 to 21 inches.
Youth's sizes are 22 to 29 inches.

For Terms and Particulars see page 514.

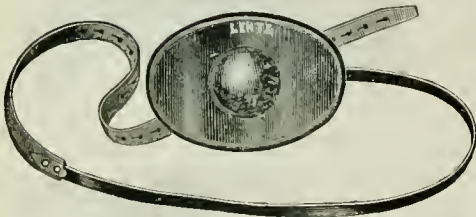
*All trusses illustrated are designated by a *.*

Trusses for Hernia.

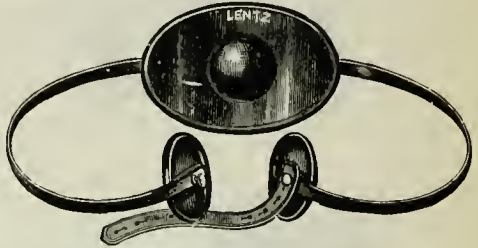
UMBILICAL TRUSSES, ADULT'S.



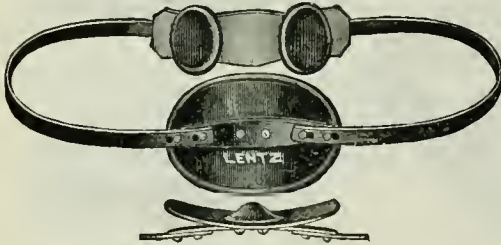
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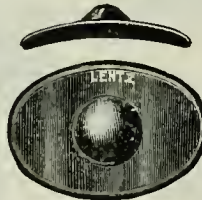
7323



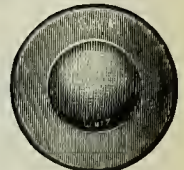
7324



7325



No. 1



No. 2

7326

- 7320.* Elastic, extra heavy and broad thread webbing with fine kid pad; sizes 30 to 54 inches \$4 75
- 7321. Elastic, same as No. 7320, with hard rubber pad 5 50
- 7322. French pattern, leather covered spring, with kid pad; sizes 30 to 44 inches 4 00
- 7323.* French pattern, hard rubber covered spring, with hard rubber oval abdominal plate and center pad; sizes 30 to 44 inches 6 50
- 7324.* Elliptic Spring, French pattern, hard rubber covered springs with hard rubber oval abdominal plate and center pad 9 00
- 7325.* Elliptic Spring, Improved French pattern 11 00

Made with double springs to fasten in front, on a small bow-spring with centers only bearing directly on center of umbilical pad; this, while giving an addition to the pressure of body springs, allows the pad to accommodate itself better to the abdomen around navel. Made in three sizes of abdominal plates and three sizes of center pads. Stock sizes, 36 to 56 inches. Other sizes of springs and pads to order. See also our Combination Umbilical Belt, fig. 7338.

NOTE—These styles illustrated above are often used alone for umbilical hernia, but many persons require their combination with abdominal belts, and corpulent persons should always use a belt in combination.

7326.* Concave Pads for Irreducible Hernia.

When a hernia becomes irreducible through neglect, it is necessary to give close support to the irreducible portion, so that strangulation may be prevented; by close care the irreducible portion may be reduced and sometimes entirely returned to abdomen. For this purpose we make a Concave Pad which is used to best advantage in combination with our Nos. 7332 or 7335 abdominal supporters. Measures must be taken after everything is returned to abdomen that can be; the length, breadth and depth of the irreducible portion must be given, and location as measured from median line and pubes.—Made only to order.

When ordering umbilical trusses give circumference around body directly on line of rupture.

For Terms and Particulars, see page 514.

Abdominal Supporters. □

In order to obtain the best results, the greatest care and attention is required in the fitting of abdominal supporters. Our experience in manufacturing and adjusting them assures to your patients safety and comfort.

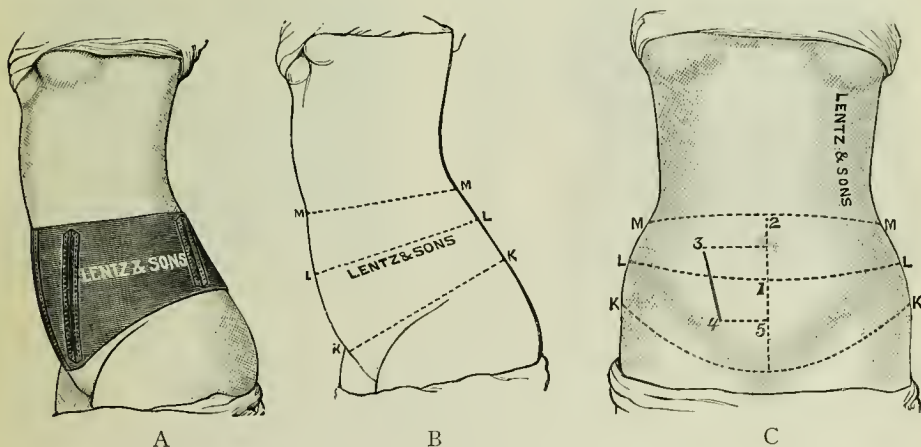
Abdominal supporters are made for the purposes of reducing corpulency; to protect the wound after operations for appendicitis, etc.; for support before and after child-birth; to prevent umbilical (navel) hernia; for floating kidneys; for uterine troubles, and all abdominal weaknesses.

The following pages, representing a few of the most desirable styles will aid you in making a proper selection. For special cases our experience and advice are at your service.

Mail orders are filled promptly. Any cases which the physician may describe to us, will be studied carefully and the proper appliance selected.

Patients who are entrusted to our care are waited on by a staff of competent attendants, both ladies and gentlemen. The second floor of our establishment (elevator service) is provided for the convenience of our patrons with a reading room and with a series of six private fitting rooms.

DIAGRAMS FOR MEASURING AND ADJUSTING ABDOMINAL SUPPORTERS.



Directions for Measuring and Adjusting Abdominal Supporters.

Give circumference measurements at K, avoiding fullness of abdomen; at L, or umbilicus, and at M or where top of belt is to come. (See side view on figure B.) Where abdomen is pendulous, always raise this portion and take measure underneath same.

Give exact measures; we make necessary allowance for compression, which varies according to style of belt and condition of abdomen.

For depth, when extra wide belt is required, take measures separately from K to L and from L to M. In most cases the widths as furnished in proportion to lengths will be found correct.

Always apply belt as low down as thighs will permit, (see figure A), and be careful that no more and generally not as much compression be given at top as at bottom of belt.

For umbilical hernia, where our combination supporters are used, note closely that if umbilicus is not located at L or fullest part of abdomen, then separate depth measure should be given from K, or bottom of belt, to umbilicus.

Figure C is a guide for cases where supporters are to be worn after operations, and a suitable pad is to be worn to protect incision. Give distance from 3 (top of incision), to dotted line down centre; from 4 to 5, and from 3 to 4. This enables us to locate the position of incision.

Fitting and adjusting of special cases given careful attention at our Patients' Department.

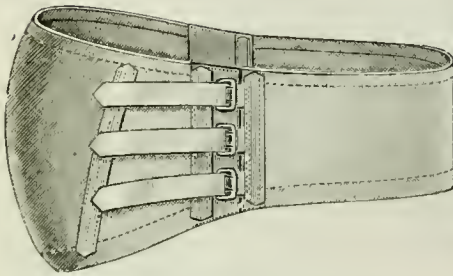
Private Fitting Rooms.

Expert Attendants, both Ladies and Gentlemen.

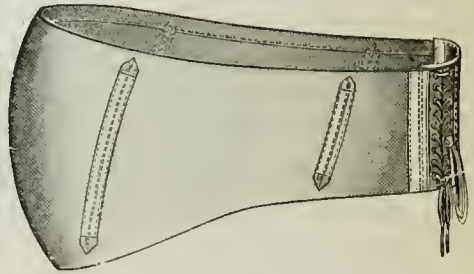
When referring patients to us, kindly send a letter of introduction and instructions.

When fitting at their homes or at hospital those patients who are unable to call at our establishment, we charge a moderate fee over catalogue prices.

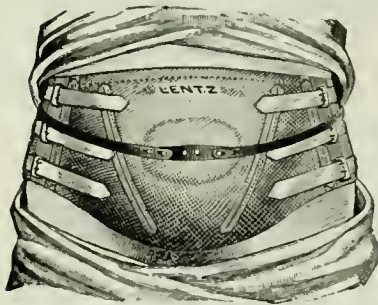
Abdominal Supporters. □



7332



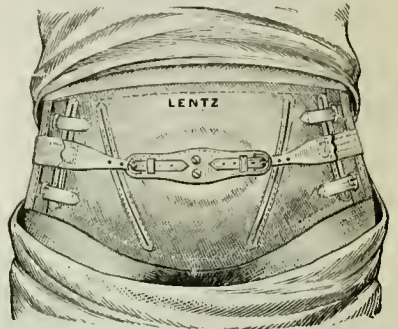
7335



7338



7340



7339

- 7332.* Abdominal Supporter, All elastic belt, buckled at sides, XX quality, stout silk elastic . . . \$10 00
- 7333. " " " X quality, stout silk elastic . . . 8 50
- 7334. " " " Best quality lisle thread elastic . . . 7 50
- 7335.* " " " All elastic belt, laced in back, XX quality, stout silk elastic . . . 10 00
- 7336. " " " X quality, stout silk elastic . . . 8 50
- 7337. " " " Best quality lisle thread elastic . . . 7 50

Any of the above supporters up to 46 inches at prices given; larger sizes at slight advance.

These supporters are made entirely of elastic fabric similar to elastic hosiery, but generally of heavier material. Used to advantage by corpulent people, both men and women, for supporting the abdomen, thus giving comfort and absolute safety from umbilical hernia; also used *before and after child-birth*, for floating kidney and after abdominal surgery. The fabric is a woven material that ventilates and gives comparative comfort in warm weather. Width of belts, 7 to 10 inches, in proportion to circumference.

7338.* Combination Umbilical Belt is made to order from Nos. 7332 or 7335 all elastic abdominal belts put up with No. 7325 double spring hard rubber umbilical truss. According to quality of belt desired . . . \$14 00 to \$17 00

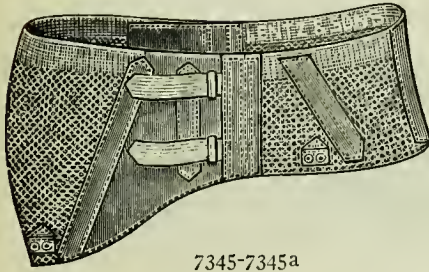
This combination is found to be an excellent appliance and adapted for very stout persons with umbilical hernia.

7339.* Combination Umbilical Belt, (all elastic) is made to order from Nos. 7332 or 7335 all elastic abdominal belts put up with No. 7340 hard rubber pad and strong elastic webbing attached. Can be worn often where springs are objectionable, and generally preferred for irreducible umbilical hernia where concave pad No. 7326 has to be worn. According to quality of belt desired . . . \$12 00 to \$15 00

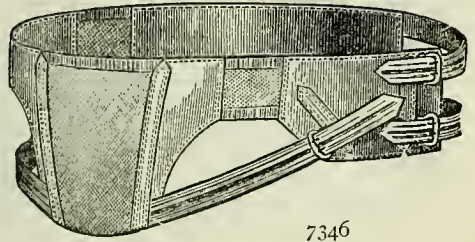
Directions for Measuring and Applying, see page 529.

For Terms and Particulars, see page 514.

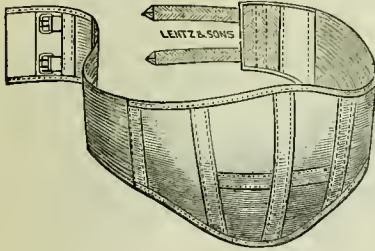
Abdominal Supporters. □



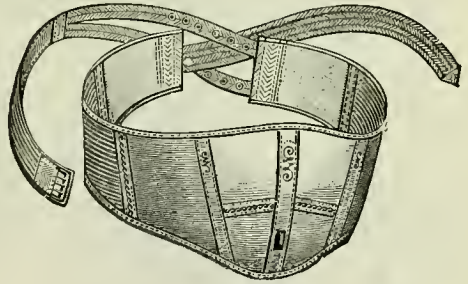
7345-7345a



7346



7347

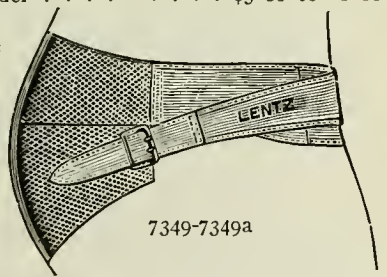


7348

- 7345.* Abdominal Supporter, "Philadelphia;" made of silk elastic front and back, and sateen sides; buckled at sides. Width in front $6\frac{1}{2}$ to 8 inches, in proportion to circumference. Very light and durable. Not intended for extremely corpulent persons. Any size up to 40 inches \$5 00
- 7345a.* Abdominal Supporter, "Philadelphia;" made of best quality lisle thread elastic 4 50
- 7346.* Abdominal Supporter, adjustable lift-up strap in front; silk elastic front and back, sateen sides. Sizes up to 36 inches. Not recommended for larger sizes 3 00
- 7347.* Abdominal Supporter, "German;" sateen front and back, stout elastic webbing at the sides, buckling at back. Width in front $6\frac{1}{2}$ to 8 inches, in proportion to circumference. Sizes from 26 to 36 inches 3 00
- This is a light, comfortable belt for small and medium-size persons, but not suitable in sizes above 36 inches.
- 7348.* Abdominal Supporter, "Stuttgart," made of best German sateen, steel color; strong elastic at sides over hips, elastic bands with buttons and eyelet holes at the back. It is buckled in front, the band rendering additional support. Width, $6\frac{1}{2}$ to 8 inches, in proportion to circumference. Stock sizes from 26 to 40 inches 4 00
Larger sizes of this pattern made to order \$5 00 to 6 00

"Summer Wear." Nos. 7347 and 7348 are also furnished of open-mesh material at a slight advance in price. Cool, light and comfortable.

- 7349.* Abdominal Supporter, "English Lift-up." Its construction allows a perfect regulation of pressure, especially where it is desired to give additional support at the lower part of the abdomen, yet to avoid undue pressure upon the upper region. Sizes from 26 to 42 inches. Made of stout silk elastic \$8 00



7349-7349a

- 7349a.* Abdominal Supporter, "English Lift-up;" made of best quality lisle thread elastic 7 00

Directions for Measuring and Applying, see page 529.

For Terms and Particulars, see page 514.

Abdominal Supporters. □

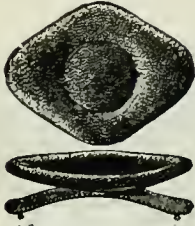
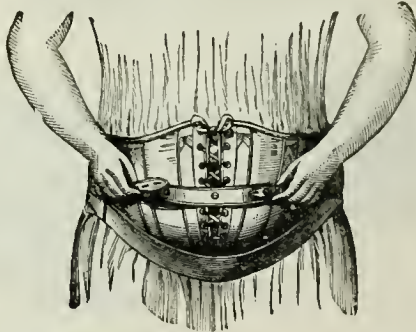


Fig. 1



7353-7354

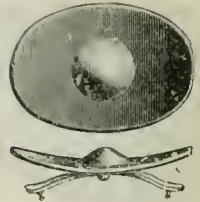
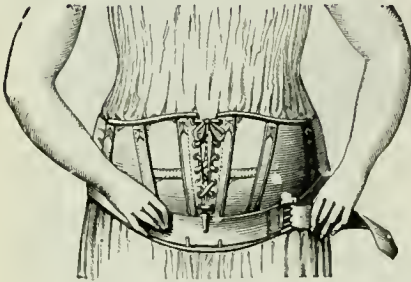
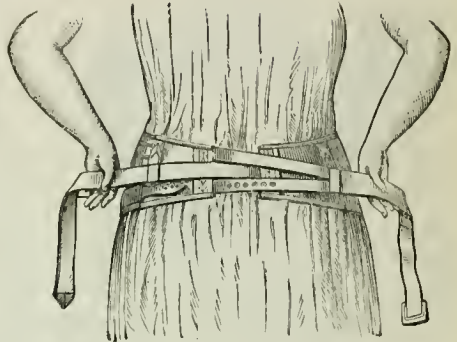


Fig. 2



7352



Back view of 7352-7353-7354

- 7352.* Abdominal Supporter, self-adjusting, "Dresden;" made of best quality German sateen with strong elastic at sides over hips, and elastic bands with studs and eyelet holes at back. It is divided in front and laced to permit exact adjustment. The belt buckles in front, the band rendering additional support. *For sizes, see foot-note.*
 Sizes 28 to 40 inches \$7 00
 Size 42 inches, \$7 30; 44 inches, \$7 60; 46 inches, \$8 00; 48 inches . . . 8 50
 "Summer Wear." The Dresden Abdominal Supporter is also furnished of open-mesh material at a slight advance in price. Cool, light and comfortable.
- 7353.* Abdominal Supporter, self-adjusting, "Bremen." A combination supporter for umbilical or navel hernia, in conjunction with a lifting-support for the abdomen. Made of extra strong German sateen, with strong elastic at sides over hips, and adjustable elastic webbing along the lower border which affords the lifting support. It is divided in front and laced to permit exact adjustment. The belt buckles in front, the band rendering additional support.
 Furnished with a plush-covered slightly concaved center pad with bow-spring, Fig. 1, for irreducible hernia. *For sizes, see foot-note.*
 Sizes 28 to 40 inches 8 80
 Size 42 inches, \$9 10; 44 inches, \$9 40; 46 inches, \$9 80; 48 inches . . . 10 30
- 7354.* Abdominal Supporter, self-adjusting, "Bremen;" same as No. 7353, but with hard rubber oval abdominal plate with apex center pad, Fig. 2, for reducible hernia, instead of pad Fig. 1. *For sizes, see foot-note.*
 Sizes 28 to 40 inches 8 80
 Size 42 inches, \$9 10; 44 inches, \$9 40; 46 inches, \$9 80; 48 inches . . . 10 30

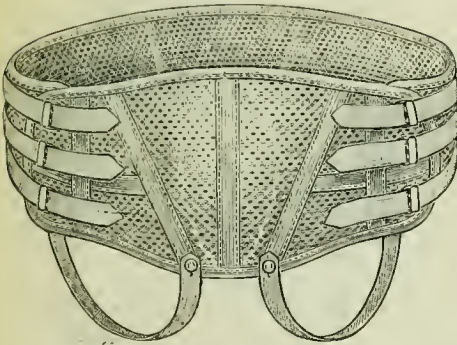
NOTE.—Abdominal Supporters Nos. 7352, 7353 and 7354 are marked in inches with the actual size they measure, and they will fit patients measuring, in proportion to size, from two to six inches larger.

All other abdominal supporters measure smaller than indicated, the number representing the size which the belt is intended to fit after due allowance for compression has been made.

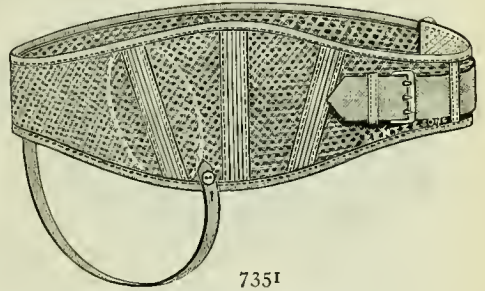
Directions for Measuring and Applying, see page 529.

For Terms and Particulars, see page 514.

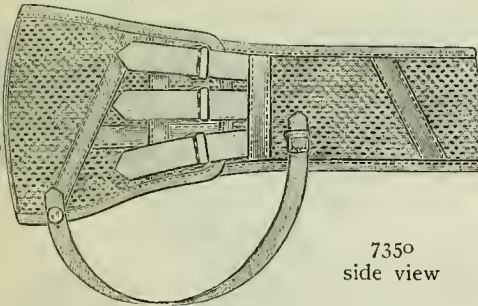
Abdominal Supporters. □



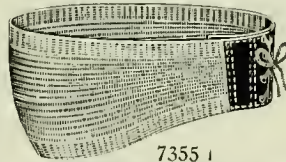
7350, front view



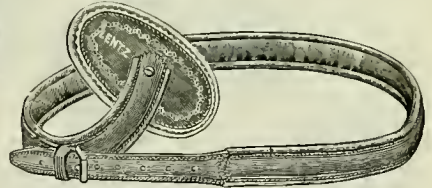
7351



7350
side view



7355



7356

7350.* Abdominal Supporter for Post-Operation, Estes', made of open-mesh material, washable; a most practical and comfortable appliance devised principally to protect the incision besides affording support to the abdomen.

The general construction of the supporter is such that all undue pressure upon any of the sensitive abdominal organs is avoided, and that free muscular movement is permitted. Adjustment is provided by means of buckles and elastic straps at sides, while a pair of soft velvet-elastic understraps keep the supporter in place and add greatly to the comfort of the wearer.

A thin chamois-covered leather pad is inserted as protection to the incision after laparotomy or other abdominal operations having an extensive union and which are followed by a large scar. Sizes 26 to 42 in. \$6 00

Larger sizes at a slight advance.

When ordering state circumference of body below crest of ilium, also location and length of incision (see page 529, Fig. C).

7351.* Appendicitis Belt, Estes'; made of open-mesh material, washable. Similar to No. 7350, but exceptionally narrow, and with only one understrap; light in weight and most comfortable. Provided with a thin chamois-covered leather pad for supporting the incision. Sizes 22 to 42 in. 4 00

When ordering state circumference of body below crest of ilium and length of incision.

7355.* Abdominal Supporter, "Randolph"; covered elastic; made of soft linen interwoven with protected rubber thread; the rubber thread being covered with linen is more durable than similar supporters made with unprotected rubber thread; made in three widths, 8, 10 and 12 inches.

8 inches wide, suitable for persons measuring 24 to 40 inches 2 50
 10 inches wide, suitable for persons measuring 38 to 50 inches 2 75
 12 inches wide, suitable for persons measuring 44 to 58 inches 3 00

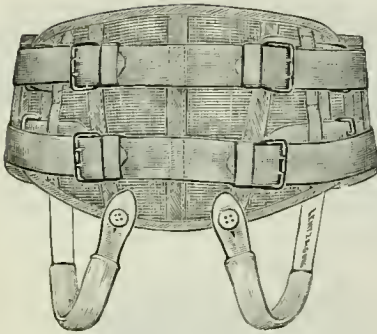
When ordering state largest circumference of abdomen and width desired.

7356.* Truss for Support of Floating Kidney, Schmoeller's; well padded; the neck of the spring is bent upward and slightly inward, avoiding pressure upon the spinal process; the pad is thick at the lower margin. Single truss, \$8 00; double truss 14 00

Directions for Measuring and Applying, see page 529.

For Terms and Particulars, see page 514.

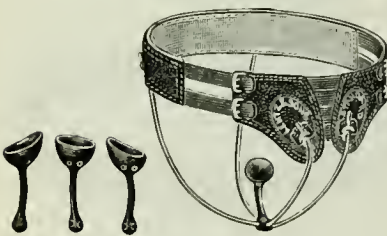
Abdominal Supporters. □



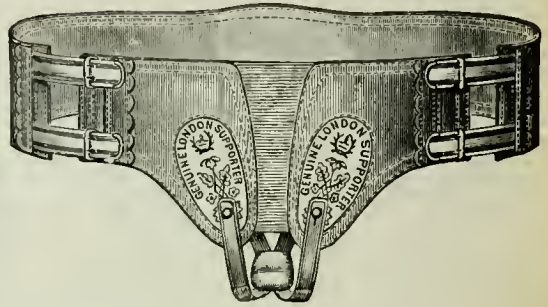
7357, front view



7357, back view



7359-7359a



7360-7361

- 7357.* Supporter for Relief of Sacro-Iliac Sprain and Luxation, James K. Young's. Consists of an Abdominal Supporter of special construction with the addition of a triangular pad, which is well cushioned in order to exert pressure upon the sacrum. The desired pressure either to the upper or to the lower region of the sacrum is regulated by means of two semi-circular, hard-tempered steel springs, to which strong straps are attached, which are buckled in front. Perineal straps are furnished when required.
 Directions for measuring abdominal supporter, see page 529. In addition give outline of sacrum.
 According to size \$10 00 to \$14 00
7368. Supporter for Relief of Sacro-Iliac Sprain and Luxation, R. L. Pitfield's. Made of strong non-elastic webbing, re-enforced at various places with light, pliable steel stays; adjustable in front by means of straps and buckles; perineal straps are provided.
 When ordering, state circumference of pelvis above trochanter and circumference just above crest of ilium.
 According to size \$4 00 to 6 00
7369. Whooping Cough Belt, Kilmer's; made of linen material with silk elastic webbing inserted at sides; lacing at back. When ordering, state age of child and circumference of abdomen at the navel 3 00
7358. Abdominal Supporter, Fitch's pattern, hard rubber; sizes 30 to 44 inches .. 8 00
- 7359.* " " combined with uterine support; fine pebble leather, saten lined; with globe stem pessary 6 00
 " " " with either style cup pessary 4 00
- 7359a.* " " combined with uterine support; fine calf leather, saten lined; with globe stem pessary 7 00
 " " " with either style cup pessary 5 00
- 7360.* " " London, fine russet leather; sizes 24 to 44 inches . . 3 00
- 7361.* " " " fine calf leather; extra deep front and extra finish; sizes 24 to 44 inches 5 00

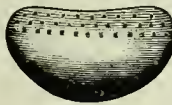
Directions for Measuring and Applying, see page 529.

For Terms and Particulars, see page 514.

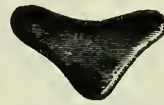
Pads for Abdominal Supporters. □



7362



7363



7363a

- 7362.* Pad for support and protection after celiotomy, appendicitis or hernia operations; made of either hard rubber or kid \$1 25
- 7363.* Pad for supporting floating kidney, orange slice shape; made of soft material, covered with fine kid leather; three sizes. Small \$1 00 medium, \$1 25; large I 50
- 7363a.* Pad for supporting floating kidney, triangular shape; made of soft material; three sizes each I 50

These pads are applicable to any style supporter; however, the full elastic supporters are preferable, as they exert a more continuous pressure.

Unless the location can be given quite exactly, we do not ship the supporter with the pad fastened, but recommend that the physician and the patient experiment until the location is discovered where the most benefit is obtained. To this end apply the supporter with a fair pressure, then slip the pad in place (it is not likely to move from the motion of the body). Within a few hours the proper spot will be located, when the outline of the pad should be marked on the material, and the pad sewed to the inside.

Elastic Bandages.

FOR THE TREATMENT OF VARICOSE VEINS AND OF DISEASES OF THE SKIN.



7364



7365



7366



7367

- 7364.* **Rubber Bandage, Martin's, pure gum; best stout rubber; with tape.**
 2 inches wide; 9 feet long, \$1 50; 12 feet long, \$2 00; 15 feet long \$2 40†
 2½ " " 9 " " 1 85; 12 " " 2 40; 15 " " 3 00†
 3 " " 9 " " 2 20; 12 " " 2 90; 15 " " 3 60†
- 7365.* **Covered Elastic Woven Bandage, "Randolph;" made of cotton, interwoven with covered rubber.**
The sizes indicate measurements when stretched.
 3 yards long; 2 inches wide, 35c.; 2½ inches wide, 45c.; 3 inches wide 60†
 5 " " 2 " " 50c.; 2½ " " 70c.; 3 " " 75††
 8 " " 2 " " 2½ " " 1 00; 3 " " 1 30††
- 7366.* **Smooth Web Elastic Bandage; close woven, interwoven with rubber, thin and compact; very smooth and neat in appearance.**
The sizes indicate measurements when stretched.
 3 yards long; 2 inches wide, 40c.; 2½ inches wide, 50c.; 3 inches wide 60††
 5 " " 2 " " 60c.; 2½ " " 70c.; 3 " " 80††
 8 " " 2 " " 85c.; 2½ " " 1 00; 3 " " 1 15††
- 7367.* **"Rubberless" Elastic Bandage; made entirely of cotton.**
 Its elasticity is due to the peculiar weave of the individual threads. It can be rolled evenly; reversing is unnecessary. It may be washed freely. The continual and even pressure given by this bandage makes it desirable for use in all cases where a rubber or a flannel bandage would be indicated.
Made in one length only, 5½ yards when stretched.
 2 inches wide, each, 30c. net; per dozen, \$2 60 net
 2½ " " " 35c. " " 3 20 "
 3 " " " 40c. " " 4 00 "
 4 " " " 50c. " " 5 00 "

Prices subject to change, without notice.

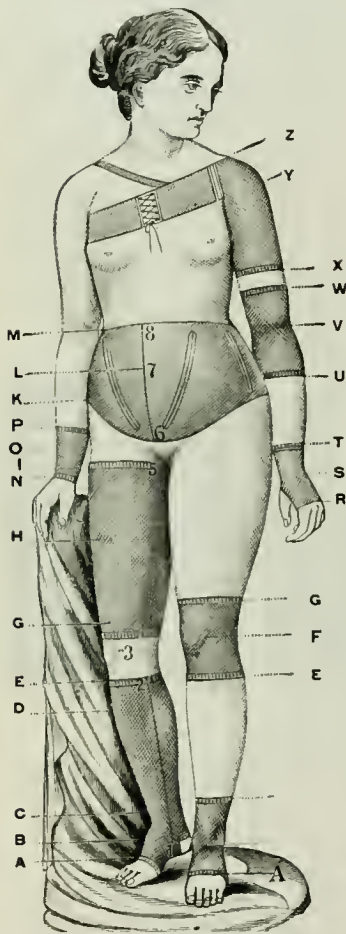
Elastic Surgical Hosiery. □

For the relief and support of varicose veins, weak, swollen or ulcerated limbs.

DIRECTIONS FOR MEASUREMENTS.

Measurements should be taken in the morning when practicable, as the limbs become increased in size as the day advances.

Give the actual measurements of limb at points required, as per annexed diagram. We allow for compression.



For a THIGH STOCKING.—Circumference at A, B, C, D, E, F, G, H, I. Length from sole of foot to F, and from F to I.

For a THIGH LEGGING.—Circumference at C, D, E, F, G, H, I. Length from C to F, and from F to I.

For a THIGH KNEE CAP.—Circumference at E, F, G, H, I. Length from F to I.

For a THIGH PIECE.—Circumference at G, H, I. Length from G to I.

For a KNEE STOCKING.—Circumference at A, B, C, D, E, F, G. Length from sole of foot to F.

For a KNEE LEGGING.—Circumference at C, D, E, F, G. Length from C to F.

For a KNEE CAP.—Circumference at E, F, G.

For a GARTER STOCKING.—Circumference at A, B, C, D, E. Length from sole of foot to E.

For a GARTER LEGGING.—Circumference at C, D, E. Length from C to E.

For an ANKLET.—Circumference at A, B, C. Length from sole of foot to C.

For a WRISTLET.—Circumference at N, O, P. Length from N to P.

For a MITTEN.—Circumference at R, S, T. Length from R to T.

For an ELBOW CAP.—Circumference at U, V, W. Length from U to W.

For a SHOULDER CAP.—Circumference at X, Y, Z. Length from X to Y, and from Y to Z. Specify whether for right or left shoulder.

For an ABDOMINAL BELT.—Circumference at K, L, M, and depth in front from K to M.

State quality of material desired.

For prices, see next page.

Every article is made to order, strictly according to measurements given, so that an equal pressure is obtained at all points, which is not the case with goods usually obtained of dealers who supply orders from ready-made goods, which seldom fit properly.

Goods made to order at the risk of the purchaser. We can correct at our expense only where the error is ours.

ATTENTION is called to above explicit directions for measuring Elastic Stockings, etc. By carefully observing them, an accurate fit can always be secured, and a reliable article can always be depended upon.

Stockings should not be worn at night, but should be put on immediately after rising.

The damage caused to stockings by drawing on and removing is greater than by actual wear. Never pull the elastic piece over a moist limb, else it will strain the fabric. Always use a thin stocking underneath and draw the elastic piece over it. Do not force the stocking, but turn it inside out, down to the lower part, or foot, and then take hold of the *folded part* and draw on *closely over foot and heel*. After this is done, roll out the fold a *short length* at a time and draw on *carefully*, so that no strain is put on the fabric and *no wrinkles* are left either in the elastic stocking or the *light* stocking that should always be worn underneath. The *thin* stocking protects the elastic from the effects of perspiration; a stocking should also be worn over the elastic, as contact of clothing or shoes wears the fabric. Elastics are destroyed quickly by oils, liniments or grease in any form.

We shall be pleased to keep our customers supplied with Measurement Blanks,

Elastic Surgical Hosiery. □

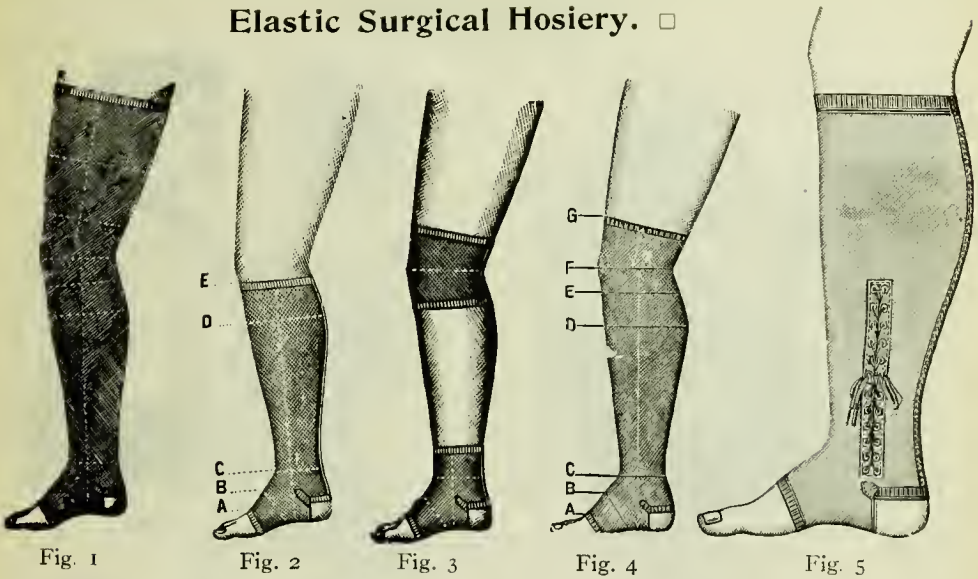


Figure 1, Thigh Stocking. Figure 2, Garter Stocking. Figure 3, Anklet and Knee Cap. Figure 4, Knee Stocking. Figure 5, Garter Stocking, partly laced.

	Fine Silk	Stout Silk	Superior Fine Silk	Thread
Thigh Stocking (A to I)	\$13.75	\$15.80	\$17.25	\$12.65
Thigh Legging (C to I)	12.65	14.20	15.80	11.00
Thigh Knee Cap (E to I)	10.70	11.85	12.65	7.85
Thigh Piece (G to I)	5.15	5.95	6.70	4.50
Knee Stocking (A to G)	10.70	11.85	12.65	9.20
Knee Legging (C to G)	9.50	10.70	11.85	7.85
Knee Cap (E to G)	3.95	4.50	4.70	3.15
Garter Stocking (A to E)	5.95	6.70	7.50	4.50
Garter Legging (C to E)	4.50	4.70	5.50	3.55
Anklet (A to C)	3.95	4.55	4.70	3.15
Wristlets		2.00	2.35	1.55
Mittens		3.15	3.95	2.35
Elbow Cap		3.15	3.95	2.35
Shoulder Cap		11.85		9.50

Prices January 15, 1920

Above prices are for regular sizes, being limited in measurements as follows: Circumference at C up to 10 in.; at D up to 16½ in.; at F up to 16¾ in.; at G up to 18 in.; at I up to 20½ in.

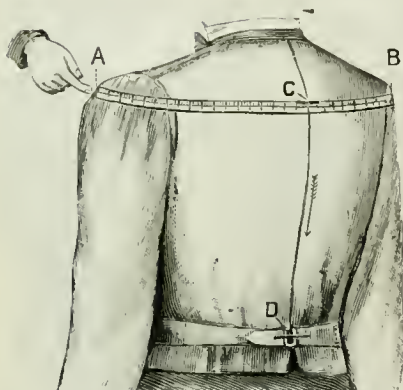
- For Anklet, length from sole of foot to C, 7½ in.
- For Garter Stocking, length from sole of foot to E, 17¼ in.
- For Knee Stocking, length from sole of foot to F, 18¼ in.; from F to G, 5 in.
- For Thigh Piece, length from G to I, 9 in.
- For Legging, length from C to E, 12½ in.
- For Knee Cap, length from E to G, 9 in.

For sizes above these measurements add to prices listed 25c. per inch circumference and 25c. per inch in length.

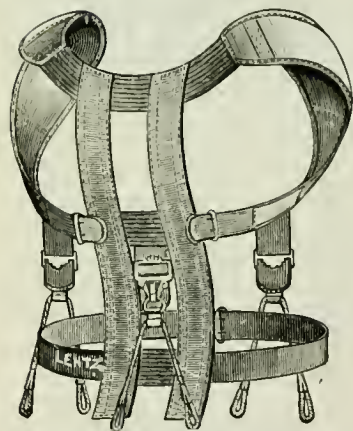
An article to lace may be used to advantage where the condition of the limb will not permit of the drawing on of a solid piece, in cases where ankle is too small to permit the piece to be drawn over the heel without over-straining, or where there is overmuch swelling to be reduced. As the lacing is put on inner side, it is necessary to state whether article is wanted for right or left limb. Additional charge for Garter Stocking, partly laced, 50c.; full length laced, 75c.; Knee Stocking, partly laced, 50c.; full length laced, \$1 25.

We shall be pleased to keep our customers supplied with Measurement Blanks.

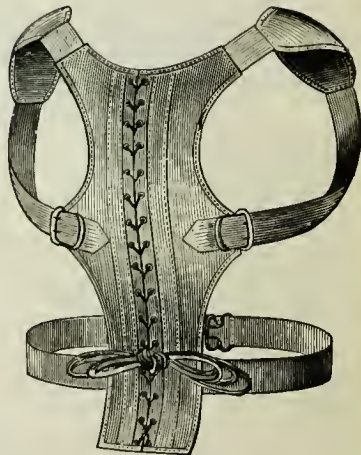
Shoulder Braces. □



7370



7372



7374

SHOULDER BRACES.

- 7370.* "Diamond;" for males, with suspender attachments; all webbing, with combination caps of such shape that they fit correctly over tips of shoulders. Qual. A, regular, \$1 50; Qual. B, extra strong. \$2 00; Qual. C, silk finish \$3 00
- 7371. "Diamond;" for females, with skirt supporters. Qual. A, regular, \$1 50; Qual. B, extra strong, \$2 00; Qual. C, silk finish 3 00
- 7372.* "Improved Monitor;" for males, with suspender attachments; steel spring back, leather covered 3 00
- 7373. "Monitor;" without suspender attachments; for males or females; steel spring back, leather covered 2 50
- 7374.* "Perfection;" for females; corset back, steel springs, sateen covered . . 2 50

Directions for Ordering Shoulder Braces.

State whether for male or for female.
 Circumference of chest close under armpits.
 Distance from A (point of shoulder) over back to same point on other shoulder.
 Distance from C (on line between points of shoulders) to D (waist line).
 For females, give also circumference of waist.

Shoulder Braces. □



7375



7376



7377



7378



7379

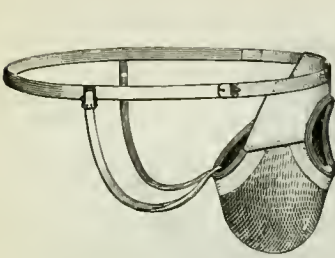
SHOULDER BRACES.

- 7375.* Lentz's Improved; for males and females; steel spring back; most suitable for extreme cases of round shoulders and for weakness of the spine. For description see Orthopedic Apparatus, Spinal Braces. Made to order 8 00
- 7376.* "Repona;" for females; an excellent support for slight curvature of the spine. It is properly strengthened at back with two broad, well-tempered steel stays. Shoulder straps are provided to allow for ample chest expansion. Adjusted by laces 10 00
- 7377.* "Uprite;" for males; suspender brace \$1 50
- 7378.* "Uprite;" for females; made of white elastic webbing 1 00
- 7379.* "Truform;" for females; light and neat; does not cut under arms; sustains the back with comfort 2 00

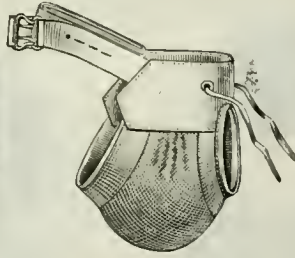
Directions for Ordering, see page 538.

All articles illustrated are designated with a *.

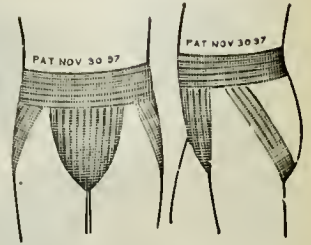
Suspensories. ††



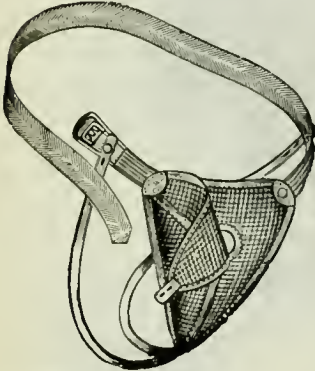
7388-7389



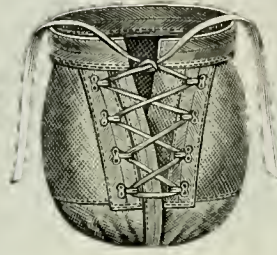
7382-7383



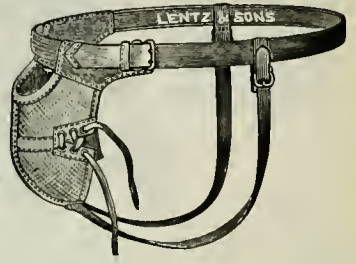
7384



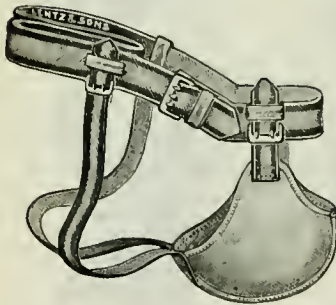
7386-7387



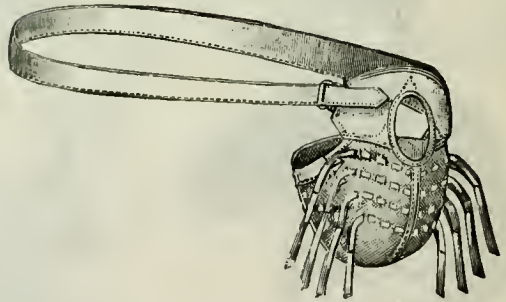
7393



7392



7394



7391

- 7382.* Athlete; woven thread sack; with draw string; three sizes each \$0 40
- 7383.* Athlete; woven silk sack, with draw string; three sizes each 50
- 7384.* Bike Jockey Strap, all elastic, without buckles; three sizes each 75
- 7386.* Stowaway, woven thread fabric, with a hammock-like strip of same material furnishing a sort of trough for the penis to lie in; waistband partly elastic and smooth; all elastic understraps, which button to the belt; three sizes each 1 00
- Indispensable to Horseback Riders, Cyclists, Oarsmen, Athletes, Tourists, etc.
- It is the best and certain protection against abrasion and soreness, and a certain kind of mental and physical prostration.
- 7387.* Stowaway, woven silk fabric, otherwise same as No. 7386; three sizes each 1 75
- 7388.* Army and Navy, woven linen sack, elastic waistband and understrap; three sizes 60
- 7389.* Army and Navy, woven silk sack, elastic waistband and understraps; three sizes 80
- 7390.* Teufel's Sport, strong woven thread sack, waistband and understrap; three sizes 1 00
- 7394.* Lentz's, extra strong, stockinette sack, chamois-lined, waist band and understraps of non-elastic webbing, thoroughly adjustable; preferably used for hydrocele or irreducible scrotal hernia; large, \$2 25; X large, \$2 50; XX large 3 00
- 7391.* Scrotal Compressor, open wove thread sack, with draw strings inserted through meshes of bag, so that scrotum can be compressed; three sizes each 1 25
- 7392.* Scrotal Compressor, Martin's modified Langelbert-Horand's, for epididymitis; strong thread sack, lined with mackintosh; laced at sides to exert lateral pressure; elastic waist band and understraps; three sizes each 1 25
- 7393.* Compressor, Carroll's, silk elastic, for orchitis; used where compression of a single testicle is necessary; three sizes each 1 50

All the above Suspensories are made in Three Sizes,

Section XIX.

Orthopedic Apparatus.

Artificial Limbs.

APPLIANCES FOR DEFORMITIES AND DEFICIENCIES, CONGENITAL OR ACQUIRED.

Having had many years' extensive experience, under the patronage of the most eminent surgeons, in the manufacture and adjustment of appliances for the correction of distortions and deformities of the human frame, we have the practical knowledge and are thoroughly prepared to make and fit in the most skilful manner all apparatus that may be necessary in any case of disease, deformity or deficiency requiring mechanical treatment or artificial support. All apparatus made by us are of the finest material, and of the very best workmanship that mechanical skill and ingenuity can produce.

The illustrations given in the following pages are those of the more prominent and approved forms of apparatus only, but though not covering the entire field of Orthopedic Surgery, they will still be found sufficiently numerous and varied to facilitate the ordering of mechanical appliances for every part of the body. By careful reference to them physicians at a distance can have apparatus made for their patients with every certainty of perfect comfort and complete satisfaction.

While we prefer in each case to work under the direction of the attending physician, carrying out his wishes with all possible accuracy, yet should advice or consultation be needed, we will always stand ready to assist, in any way within our power, that the physician and patient may be alike benefited.

OUR TERMS ON ORTHOPEDIC APPARATUS. ±

Prices specified in this section are prices to patients, and when order is sent to us by the physician, we allow him thereon 25 per cent. discount; but when the patient is sent to us to be measured and fitted, we allow the physician only 15 per cent. discount. (Discount on Artificial Limbs given on application).

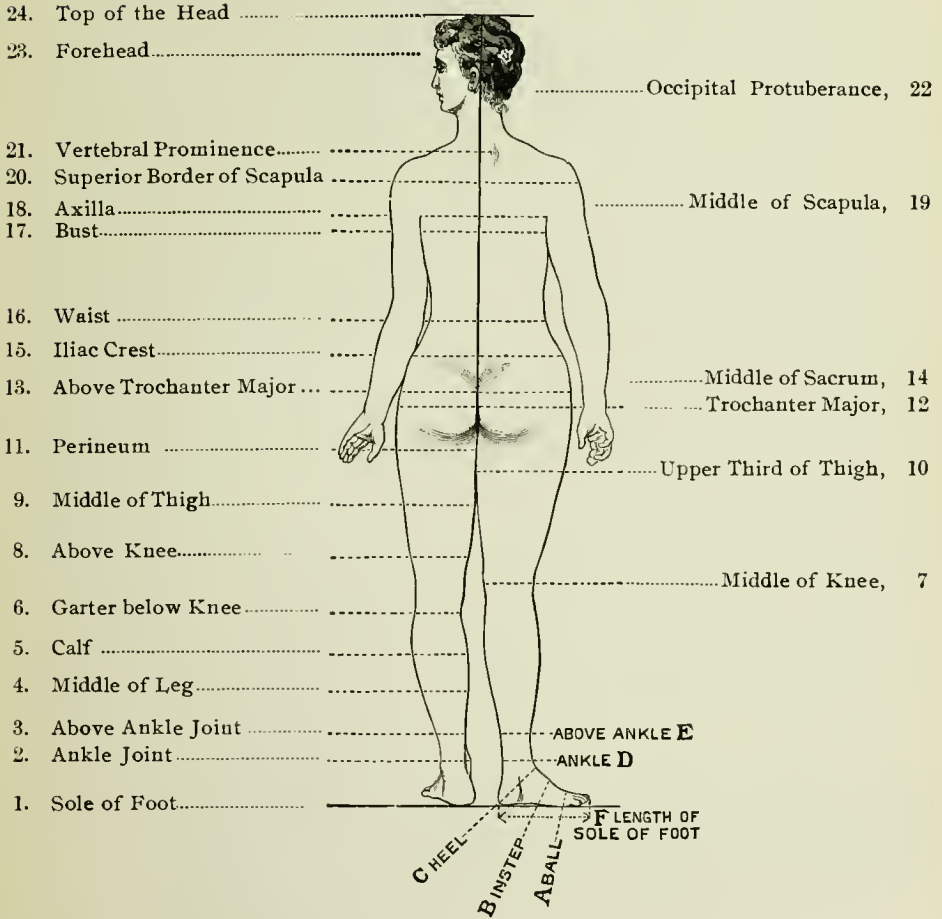
Physicians will please collect from their patients at least one-third of the amount in advance, and remit same to us when ordering. Unless directed otherwise, apparatus will then, as soon as finished, be sent direct to the patient, collecting the balance C. O. D., thus relieving the physician of all financial responsibility. In cases of this kind, we collect the full price of the brace and pass the commission to the credit of the physician, or remit same to him, if desired. We suggested this plan some time ago, because of the numerous requests made by the physicians for an extended credit on appliances of this kind, they claiming that they could not afford to pay us cash for them and then wait the will and pleasure of their patrons.

All appliances for deformities are manufactured to order, therefore physicians will see the necessity of requiring their patients to pay a portion of the amount when the order is taken and the balance on delivery of the apparatus.

Experience has shown us that the appliances of this character are not always comfortable when first worn, and that patients are at that time easily discouraged or dissatisfied with trivial matters; and while we make any changes necessary without charge (where the fault is ours), we must ask physicians to protect themselves and us to the fullest extent.

Diagram for Orthopedic Measurements.

EXPLANATION OF FIGURES AND LETTERS.



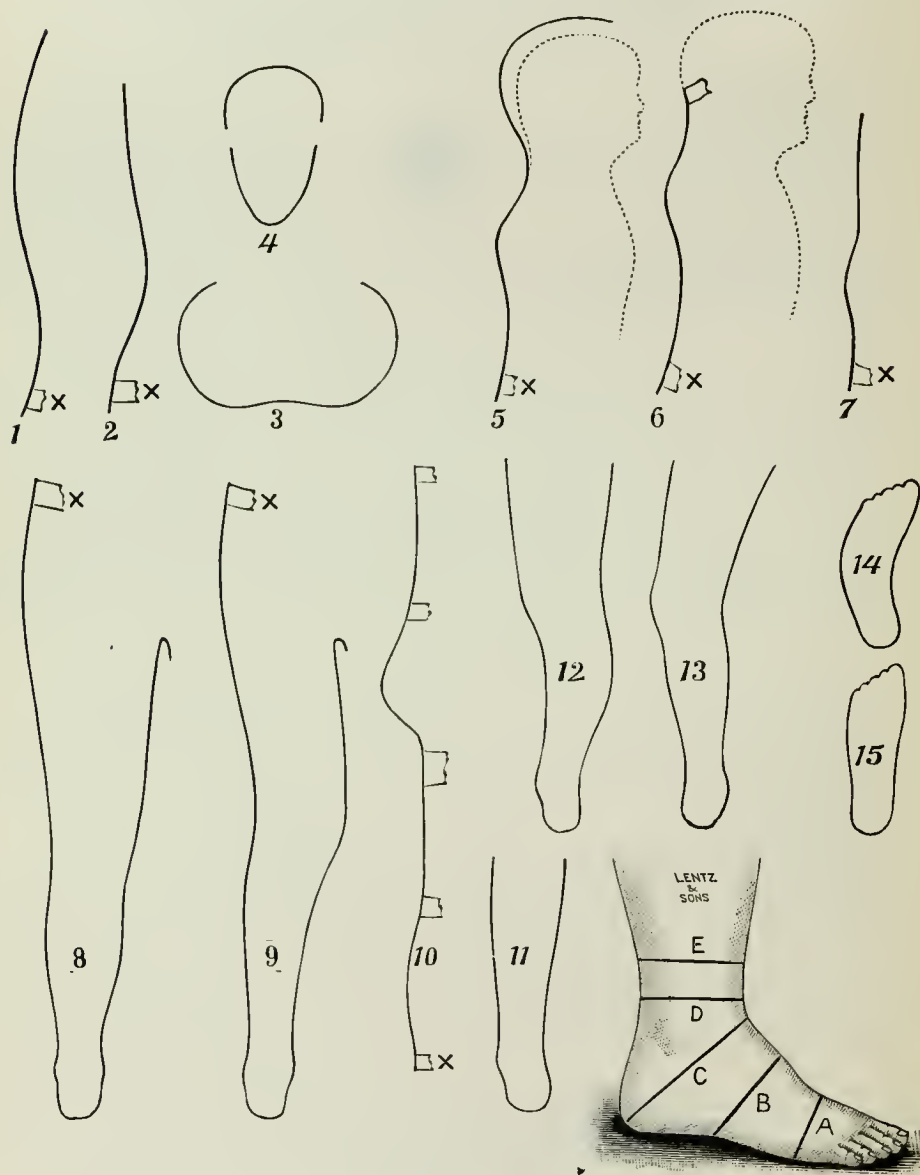
Measurements for Shoes as per Diagram.

- Circumference of ball of foot, *A*.
- “ of instep, *B*.
- “ over heel, *C*.
- “ at ankle, *D*.
- “ above ankle, *E*.
- Length of sole of foot, *F*.

Take also outline of the sole of the foot, by placing it on a sheet of paper and tracing a line around it. See also page 544.

Orthopedic Apparatus. ±

OUTLINES AS THEY WILL APPEAR APPROXIMATELY.



To obtain outlines, use a strip of sheet lead about $\frac{1}{8}$ inch thick and $\frac{1}{2}$ inch wide, or a piece of $\frac{1}{4}$ inch lead pipe hammered flat, or a piece of pliable wire about $\frac{3}{16}$ inch thick. If inconvenient to procure, we shall be pleased to forward a suitable lead strip.

With such a strip make the moulds over the parts as directed above; then trace them on a sheet of paper and mark by letter "X" that side of outline which is towards the body, also mark top and lower ends.

Orthopedic Apparatus. ±



DIRECTIONS FOR OUTLINES REQUIRED:

1. Outline of back at side, about one inch from center, of spinal column, from one inch above trochanter major to superior border of scapula (13 to 20). Mark by letter X the side towards the body, also mark top and lower ends. *For Spinal Apparatus.*
2. Outline of side of body, from axilla (with arms down) to one inch above trochanter major (18 to 13). Mark X, also top and lower ends. *For Spinal Apparatus.*
3. Outline of pelvis from anterior superior spine on one side over back to anterior superior spine on opposite side, for pelvic band. *For Spinal and Hip-Joint Apparatus.*
4. Outlines of head around the chin and back of neck; state the exact circumference. *For Chin Piece.*
5. Outline over spine from one inch above trochanter major to top of head. *For Jury Mast.*
6. Outline over spine from one inch above trochanter major to occipital protuberance. Mark exact total length, also the first and last vertebræ involved (13 to 22). *For Head Rest.*
7. Outline of spinal column over curvature, from one inch above trochanter major to superior border of scapula (13 to 20). *For Posterior Curvature.*
8. Outline of leg. *For Hip Splint.*
9. Outline of leg. *For Knock-Knee and Paralysis Braces.*
10. Outline of body, posteriorly, from above ankle over buttock to a line about two inches below axillae line. Mark points: above ankle, middle of knee, below perineum, two inches below iliac crest, two inches below line of axillae. *For Posterior Hip Splint.*
11. Outline of leg. *For Weak Ankle Brace.*
12. Outline of leg. *For Bow Leg Brace.*
13. Outline of leg. *For Short Knock Knee Brace.*
14. Outline of club foot.
15. Outline of normal foot.

When taking outlines for spinal apparatus have patient in a corrected standing position.

When taking outlines of legs, have patient lying on back or sitting, toes pointing upward. With a sufficiently long pencil, holding it perpendicularly, draw line around the limb. See above illustration.

Orthopedic Apparatus. +

7720.* ANKLE SUPPORTER FOR WEAKNESS IN ANKLE-JOINT.



Weakness in the ankle-joint is a very common occurrence. It may be due to a strain or relaxation of the muscles, or to a sprain, or it may appear after fracture of the ankle-joint. It always necessitates a lateral support at the ankle.

The appliance as shown in the illustration is one of the most efficient devices, and is applied in those cases where the woven elastic ankle does not prove of sufficient supporting effect.

Made of either soft calf leather or heavy sateen, adjustable by lacing in front, and strengthened by a number of laterally inserted, interchangeable steel stays, which are pliable enough to be shaped to the curve of the malleoli.

Measurements required, as per diagram on page 543:

1. Circumference at instep (B).
2. Circumference at ankle-joint (2).
3. Circumference above ankle-joint (3).

Price for one ankle supporter \$1 00; for a pair \$1 75 net

7722.* APPARATUS FOR SUPPORT OF WEAK ANKLE, AND FOR FRACTURE AT OR NEAR THE ANKLE-JOINT.

Because of occupation, injury, disease or some inherent weakness in the structures of the ankle and the arch of the foot, there may be a tendency to eversion of the foot with a sagging down of the bony arch. The individual is hindered in or incapacitated for his work and suffers intensely, until proper mechanical correction or support is afforded the defective parts.

In such cases we have found very effective an appliance as illustrated, to be worn as a means of sustaining the weakened and strained parts until such time when the normal muscle balance will be restored.

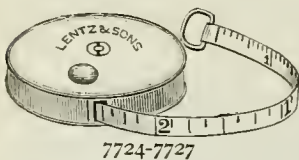
The apparatus is also especially adapted for after-treatment of fracture at or about the ankle-joint and of the bones of the tarsal and metatarsal articulation.

It consists of a stiff leather upper, which is carefully moulded over a cast of the foot and laced at front and back. The sides are reinforced by steel bars shaped in such manner as to avoid pressure on the malleoli. The arch of the foot is sustained by a plate, also riveted to the leather.

The brace is easily worn inside the ordinary shoe.

When ordering, a plaster of Paris cast of the foot is required, with the foot bent at an angle of about 110 degrees.

Price from \$10 00 to \$15 00



TAPE MEASURES.

7724.*	Linen	. . . . .	5 feet,	\$0 50, net
7725.*	"	. . . . .	6 "	60 "
7726.*	Steel	. . . . .	5 "	1 10 "
7727.*	"	. . . . .	6 "	1 30 "

All tapes are furnished in nickel-plated cases with spring and stop, and divided in inches and centimeters. The steel tapes are made of the finest tempered spring steel, 1/4 inch wide.

See Information and Terms on page 542.

Orthopedic Apparatus. +

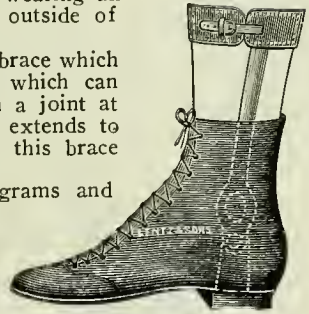
7728.* APPARATUS FOR SUPPORT OF WEAK ANKLE.

Quite frequently objection is made by ladies to wearing an ankle brace that has the lateral bars attached to the outside of shoe.

To overcome this objection, we make a single bar brace which can be worn inside of the shoe, and the presence of which can scarcely be detected. The bar, which is provided with a joint at the ankle, is attached to a steel insole, from which it extends to a few inches above the shoe top. Measurements for this brace must be taken carefully, and accurate outline given.

Measurements and outline required, as per diagrams and directions on pages 543, 544 and 545:

1. Patient's name (or sex).
2. Patient's age and weight.
3. State whether ankle turns in or out.
4. Right, left, or both feet.
5. Length from sole of foot to ankle-joint (1 to 2).
6. Length from sole of foot to middle of leg (1 to 4).
7. Circumference at middle of leg (4).
8. Outline of leg (fig. 11).
9. Send shoe or shoes to lace, one size wider than usually worn.



7728

Price for one brace, according to size from \$8 00 to \$14 00
 Price for a pair of braces, according to size " 14 00 " 24 00

7730.* APPARATUS FOR SUPPORT OF WEAK ANKLE.

This style of brace is used extensively in the treatment of injuries and sprains of the ankle-joint and contiguous structures, affording as it does a substantial support to the weakened or diseased part until recovery can take place. Its lightness, combined with its strength, give both comfort and security. It presents several features which recommend it especially to both physician and patient.

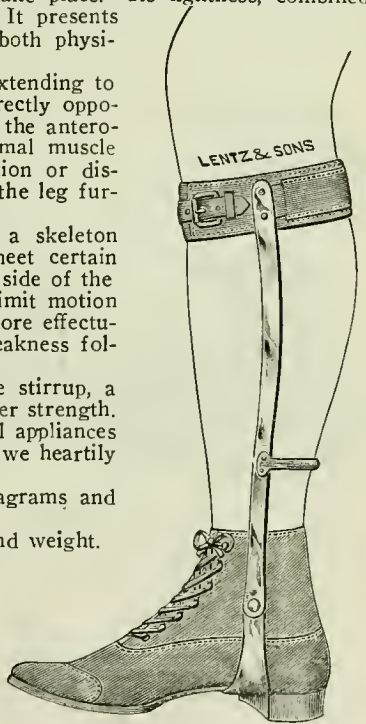
It is constructed with two lateral steel bars extending to the upper part of calf, and provided with joints directly opposite the ankle-joint, thus permitting free function in the antero-posterior direction and favoring the return of normal muscle action, while thoroughly preventing any lateral motion or displacement. The broad band encircling the garter of the leg furnishes the counter support.

The apparatus may also be looked upon as a skeleton brace to which are added any required parts to meet certain conditions; for instance, a pad on the inner or outer side of the ankle-joint for corrective pressure; a stop-joint to limit motion in either flexion or extension; a leather legging to more effectually support the leg in a case of delayed union or weakness following fracture of one or both bones, etc.

The brace is riveted to the shoe through the stirrup, a small steel plate being placed inside the shoe for greater strength. Altogether, this will be found one of the most useful appliances in ankle-joint conditions that can be constructed, and we heartily recommend it for efficiency.

Measurements and outline required, as per diagrams and directions on pages 543, 544 and 545:

1. Patient's name (or sex).
2. Patient's age and weight.
3. State whether ankle turns in or out.
4. Right, left, or both feet.
5. Length from sole of foot to ankle-joint (1 to 2).
6. Length from sole of foot to below knee (1 to 6).
7. Circumference above ankle (3).
8. Circumference below knee (6).
9. Outline of leg (fig. 11).



7730

10. Send well-fitting shoe or shoes to lace, or measurements and outline of foot as per directions on pages 543 and 544.

Price for one brace, according to size from \$8 00 to \$14 00
 Price for a pair of braces, according to size " 14 00 " 24 00
 Shoes are charged extra.

Orthopedic Apparatus. †

7732.* DR. G. G. DAVIS' STRAP FOR CLUB-FOOT AND HOLLOW FOOT.

Made of soft yet sufficiently strong leather. It is sewed strongly to the inside wall of the shoe, from where it passes within the shoe over the front of the ankle-joint and through a slot to a buckle attached to the heel at the outside of the shoe. In this manner the heel of the foot is held firmly in its proper place in the shoe. The pressure should be applied moderately and increased gradually.



After the shoe is then firmly laced, the strap is continued on the outside of the shoe over the instep, and finally secured to a buckle at the inner aspect of the heel, the grip of the first buckle becoming released thereby.

The double turning of the strap as described is a most efficient means of preventing the rotation of the deformed foot and retaining it in the corrected position.

In valgus position of the foot the heel and sole of shoe should be raised on the inner side, in varus position on the outer side.

The strap is fitted to the ordinary laced shoe. In aggravated cases of talipes varus it is used to advantage in conjunction with the leg apparatus.

When ordering, send shoe or shoes of patient, or measurements and outline of foot as per directions on pages 543 and 544.

Price of strap and attaching into shoe	each \$2 00
Price of elevating heel and sole of shoe	" 75
Price of a pair of special shoes with straps, complete	from \$10 00 to \$15 00

7734.* DR. JAMES K. YOUNG'S IMPROVED CLUB-FOOT NIGHT SHOE.

The importance of the use of a night shoe for club-foot cannot be too strongly emphasized. In fact, it is quite essential that the gain derived from the wearing of the walking brace should be continued during the hours of sleep by the use of a suitably constructed appliance.

The device illustrated is constructed lightly and fulfills the purpose. It is used also after operation in connection with the club-foot walking apparatus.

It consists of a steel plate to which are attached two upright steel bars, with a band encircling the calf. The foot is encased in a leather shoe fitted with a special double strap across the instep, which holds the deformed foot in corrected position.

Measurements and outlines required, as per diagrams and directions on pages 543, 544 and 555:

1. Patient's name (or sex).
2. Patient's age.
3. State whether varus or valgus.
4. State whether tendo Achillis is contracted.
5. Right, left or both feet.
6. Length from sole of foot to ankle-joint (1 to 2).
7. Length from sole of foot to calf (1 to 5).
8. Circumference at calf (5).
9. Circumference above ankle (3).
10. Measurements of foot (A to F).
11. Outline of leg (fig. 11).
12. Outline of foot (fig. 14).



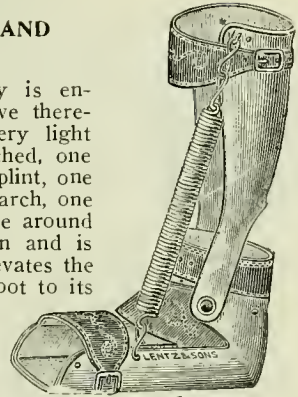
Price for one brace and shoe	from \$9 00 to \$15 00
Price for a pair of braces and shoes	" 16 00 " 25 00

See Information and Terms on page 542.

Orthopedic Apparatus. †

7736.* LENTZ'S SPLINT FOR TALIPES VARUS AND VALGUS, FOR INFANTS.

Experience has shown that considerable difficulty is encountered in applying club-foot shoes to infants; we have therefore constructed this simple, but effective splint of very light metal, with a joint at the ankle. Four straps are attached, one at the ball to press the foot down flat to the sole of the splint, one over the instep to depress any undue prominence of the arch, one just above the ankle joint to keep the heel down, and one around the calf of leg. A spiral spring is attached to a chain and is fastened near the toes upon the outside of foot, which elevates the toes and stretches the tendo-Achillis, thus drawing the foot to its natural position.



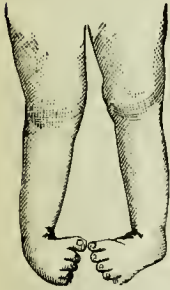
7736

Suitable for infants of a few weeks to six months of age.

Measurements and outlines required, same as for No. 7734.

Price for one splint, \$7 00; for pair, \$12 00.

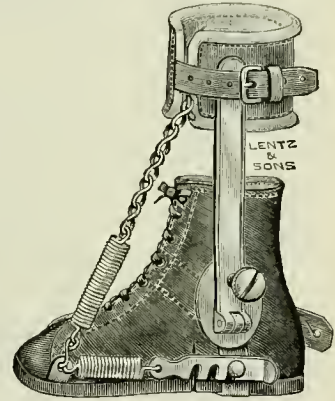
7738.* LENTZ'S CLUB-FOOT APPARATUS FOR TALIPES VARUS.



7738. TALIPES VARUS.

The shoe is made of strong leather with a jointed steel sole allowing lateral motion. A strong spiral spring draws the foot outward by constant and elastic tension, which can be regulated by fastening the spring with notched end to a button at the foot-piece. The single outside upright bar, with hinged ankle joint, is fastened around the limb by a calf-band and so constructed that the screw at the ankle-joint forces the foot flat upon the floor, which foot in almost all cases is turned under, as indicated by the sketch. The spiral spring attached to a chain and fastened near the toes upon the outside of the foot elevates the toes and stretches the tendo-Achillis, thus drawing the foot to a normal position; the contraction of the leather above the heel prevents the shoe from slipping off. The strap around the instep depresses any undue prominence of the arch of the foot, and within the shoe a broad tongue keeps the toes flat upon the sole.

On the opposite side of shoe there are two steel plates, one at the ball of foot, the other at the heel, to make counter-pressure; to the latter the instep strap is fastened. This apparatus resembles the regular shoe and shows no deformed appearance. It is preferable for children from about nine months to three years of age.

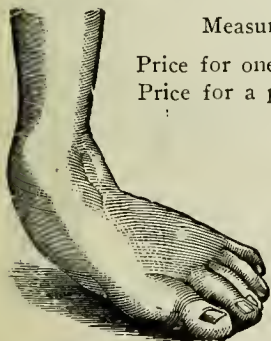


7738-7740

Measurements and outlines required, same as for No. 7734.

Price for one brace and shoe from \$11 00 to \$14 00

Price for a pair of braces and shoes " 20 00 " 25 00



7740. TALIPES VALGUS.

7740.* LENTZ'S CLUB-FOOT APPARATUS FOR TALIPES VALGUS.

For Talipes Valgus the same apparatus as for Talipes Varus is supplied, but with reversed action.

Measurements and outlines required, also prices, same as for Talipes Varus, No. 7738.

Orthopedic Apparatus. +

7742.* CLUB-FOOT WALKING APPARATUS.

This represents a club-foot walking shoe for children over two years of age. It is suited for the after-treatment of club-foot—when the foot can be pressed into proper position, but the muscles have not yet gained sufficient strength to keep the entire sole of the foot on the ground when walking with an ordinary shoe. The shoe is made to lace to the toe. It has a steel plate between the leather soles. Attached to the inner side of sole is a steel ring which arches over the projection at the base of the great toe. A strap passes over the in-step from the outside to the inside, and this, together with the ring over the ball of the great toe, serves to keep the sole of the foot at all times in contact with the sole of the shoe. To the shoe are attached two lateral bars of steel, with joints at the ankle and knee; well padded steel bands are secured below and above the knee to give proper support. If necessary, we also attach an artificial muscle, same as shown on apparatus No. 7744, to overcome any contraction of the tendo-Achillis. Made to lengthen between ankle and knee-joints to compensate for the growth of the child.



7742

Measurements and outlines required, as per diagrams and directions on pages 543, 544 and 545:

1. Patient's name (or sex).
2. Patient's age.
3. State whether varus or valgus.
4. Right, left or both feet.
5. State whether tendo-Achillis is contracted.
6. Length from sole of foot to ankle-joint (1 to 2).
7. Length from sole of foot to middle of knee (1 to 7).
8. Length from sole of foot to middle of thigh (1 to 9).
9. Circumference above ankle (3).
10. Circumference at calf (5).
11. Circumference at knee (7).
12. Circumference above knee (8).
13. Circumference at middle of thigh (9).
14. Measurements of foot (A to F).
15. Outline of leg (fig. 11), but reaching to middle of thigh.
16. Outline of foot (fig. 14).

Price for one brace and shoe, according to size from \$15 00 to \$22 00
 Price for a pair of braces and shoes, according to size " 28 00 " 38 00

7744.* CLUB-FOOT WALKING APPARATUS.

This apparatus is similar to No. 7742, but extends only to garter, and has the addition of an artificial muscle to overcome the contraction of the tendo-Achillis.

It is preferable only when the muscular portion of the knee-joint is sufficiently strong.

Measurements and outlines required, same as for No. 7730, including foot.

Price for one brace and shoe from \$12 00 to \$15 00
 Price for a pair of braces and shoes " 20 00 " 26 00



7744

7746.* APPARATUS FOR TALIPES EQUINUS.

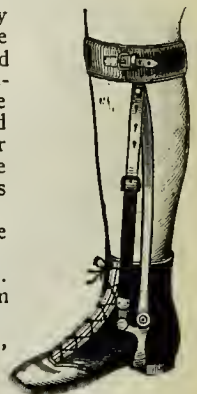
This brace is constructed very similarly to the ordinary weak ankle apparatus, with the addition of an artificial muscle between calf band and a bracket extending from below the ankle-joint. This manner of construction renders the artificial muscle decidedly more effective, and at the same time much less liable to catch or trip the patient than if it were fastened to the toe part of shoe. The degree of tension is under easy control.

Measurements and outlines required, same as for No. 7730.

Send a well-fitting shoe or shoes to lace.
 Price for one brace, according to size, from \$9 00 to \$15 00.

Price for a pair of braces, according to size, from \$15 00 to \$25 00.

No shoes included.



7746

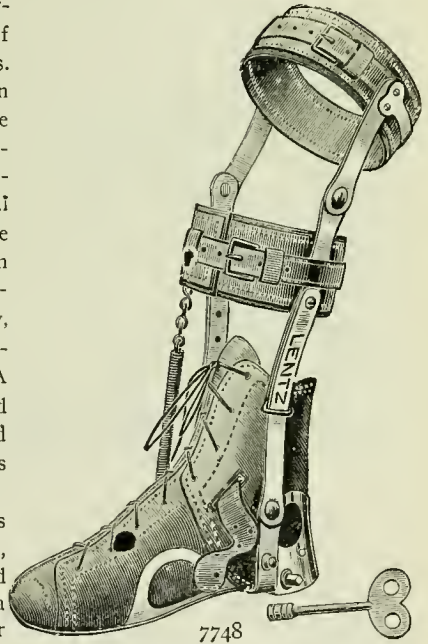
See Information and Terms on page 542.

Orthopedic Apparatus. †

7748.* IMPROVED GROSS' CLUB-FOOT ARTICULATED SHOE.

The accompanying illustration gives a correct idea of an apparatus for the treatment of talipes varus, talipes valgus and talipes equinus. The leading characteristic is the device used in the construction of the shoe part. This is made of light steel, covered with leather and well padded inside. The front part of the shoe is articulated, with the heel underneath the medio-tarsal joint. By this arrangement the front part of the shoe is first turned inward to receive the foot in its abnormal position, and then, by the adjustment of a screw which is turned by a key, it is turned outward, thereby gradually turning the foot around to its normal position. A spiral spring or strong elastic webbing attached at points above and below the ankle-joint is used to overcome the shortening of the tendo-Achillis in talipes varus and equinus.

The upper portion of the apparatus consists of two lateral bars, with thigh and calf bands, and is made to lengthen between the ankle and the knee-joints to meet the requirements of a growing child up to the age of walking or for night use.



7748

If the muscular power of the knee-joint is not defective the apparatus may be made without support above the knee.

Measurements and outlines required, same as for No. 7742.

Price for a single brace and shoe, extending above the knee, as per illustration from \$18 00 to \$24 00

Price for a single brace and shoe, without support above the knee from \$16 00 to \$22 00

7750.* LENTZ'S CLUB-FOOT APPARATUS.

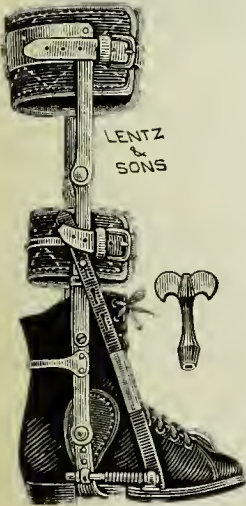
This apparatus is similar to No. 7748, but instead of having the screw for making lateral motion of the sole of the foot in a steel heel, it is placed on the outside of the shoe, as shown in the illustration, so that it can be easily cleaned and oiled, which is very important, as it is difficult to keep concealed screws in working order. The shoe is strongly made and of neat appearance and is well adapted for all cases of talipes varus.

Measurements and outlines required, same as for No. 7742.

Price for a single brace and shoe, extending above the knee, as per illustration from \$16 00 to \$19 00

Price for a single brace and shoe, without support above the knee from \$13 00 to \$16 00

When ordering a leg brace, always send outline of the limb, toes upward; see directions for taking outlines on pages 544 and 545



7750

PLEASE DO NOT CUT OR MUTILATE THIS BOOK.

In ordering, state number of apparatus and give directions required, and we can execute orders satisfactorily. Cutting out illustrations does not aid us any but destroys the page for future reference.

Orthopedic Apparatus. +

7752.* APPARATUS FOR TALIPES CALCANEUS.

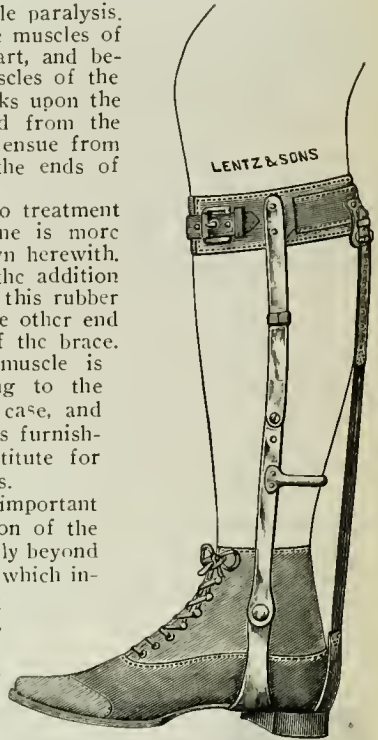
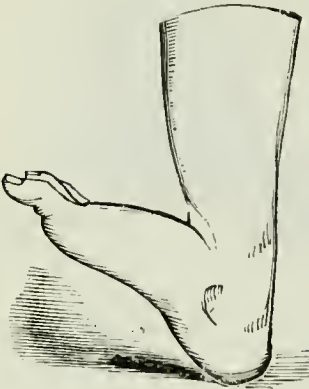
One of the most troublesome deformities in children is talipes calcaneus, which follows an attack of infantile paralysis. The destruction of the motor cells which control the muscles of the tendo-Achillis, gives rise to paralysis of that part, and because of the excess or unopposed action of the muscles of the anterior portion of the foot and leg, the patient walks upon the heel, and is also unable to propel himself forward from the toes or ball of the foot. This same condition may ensue from a tenotomy of the tendo-Achillis, with failure of the ends of the tendon to unite by fibrous or connective tissue.

Many of these cases lend themselves readily to treatment by brace, and among the many forms devised none is more simple or more frequently efficient than the one shown herewith.

It is the skeleton ankle brace, fig. 7730, with the addition of a strong rubber muscle at the back. One end of this rubber muscle is firmly attached to the heel of the shoe, the other end is connected by strap and buckle to the top band of the brace.

Thus the artificial muscle is made tight according to the requirements of the case, and it will go far towards furnishing an efficient substitute for the paralyzed muscles.

Another very important factor is the extension of the heel of the shoe slightly beyond the posterior border, which induces a downward tendency of the toes at each step forward. This enhances the work of the artificial muscle and aids much in restoring a nearly normal gait.



7752

Measurements and outline required, same as for No. 7730.

Price for one brace, according to size from \$9 00 to \$15 00
 Price for a pair of braces, according to size " 15 00 " 25 00
 No shoes included.

7754.* APPARATUS FOR TALIPES CALCANEUS.

Illustration shows another form of apparatus for this deformity. It consists of two lateral steel bars with brackets above and below the ankle-joint, and with a spiral spring between them, which serves to depress the toes by extension.

Measurements and outline required, same as for No. 7730.

Send well-fitting shoe or shoes to lace.

Price for one brace, according to size, from \$10 00 to \$16 00

Price for a pair of braces " 16 00 " 26 00

No shoes included.

See Information and Terms on page 542.



7754

REMOVABLE SHOES.

For the convenience and additional comfort to the patient we can make the shoe stirrup to disjoint, which permits the patient to use more than one pair of shoes to the one apparatus. See fig. 7820.

Add to price of each brace

. \$2 50

Orthopedic Apparatus. +
SUPPORT FOR FLAT-FOOT.



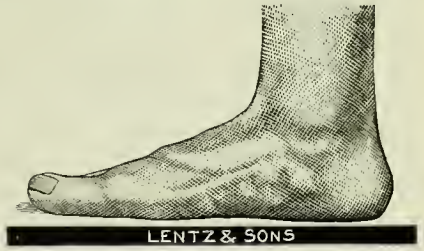
Flat-Foot With Arch Supporter



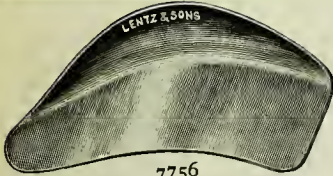
Flat-Foot Without Arch Supporter



LENTZ & SONS



LENTZ & SONS



7756

LENTZ'S UNIVERSAL INSTEP ARCH SUPPORTER.

Flat-foot occurs from various causes; in adults it is mostly the result of being obliged to remain in a standing position for lengthy periods.

Pains of a rheumatic nature about the ankles, the heel, the arch of the foot, and occasionally the calf, disappear within a short time after wearing a support. The elasticity of the foot will be regained, and the whole contour of the instep and of the foot in general improved. When the arch of the foot has been broken down, either from overstraining or from a relaxed condition of the muscular structures, so that the entire sole touches the floor when standing, great relief and in many cases a cure follows the replacing of the bones and holding them in their normal position.

After years of experiments with various metals that would permit shaping into the required form and not give way under the constant strain in wearing, we have been successful with nickel-silver of an alloy manufactured for us especially for making these arch supports. It is a non-corrosive metal, having great resiliency, does therefore require no leather covering whatever.

This metal is hammered out of the sheet by hand to the correct shape of a normal arch. It involves the sole from the heel almost up to the ball of the foot and extends up snugly against the arch of the foot near the internal malleolus.

We have unprecedented success with these supports, as we have become experts in making them just right for each patient.

We can unhesitatingly recommend this arch supporter for all cases of flat-foot, from the incipient case which merely causes some pain, to the extreme case where the ankle turns in and the arch of the foot is completely broken down.

Our workmen have become so proficient by practice that we can guarantee to give relief and comfort in all cases if the patient can visit our office. Should it not be possible for the patient to visit us, we can almost invariably supply the suitable size and shape if a tracing of the ailing foot upon paper, together with the *shoe that has been worn*, are sent to us. These indicate to us the condition of the foot and serve as a guide for the corrections to be made. While a plaster cast may assist us some, we can usually succeed without it; the shoe that has been worn is a better guide than a cast.

As the foot improves we can occasionally increase the curve of the arch by hammering the metal to greater height until the arch is restored to its normal shape.

We have in stock the sizes and shapes most in demand. Suitable for youths, women and men.

For shoes sizes 2, 3, 4, 5 each, \$2 75; per pair \$5 00

For shoes sizes 6, 7, 8, 9, 10 " 3 25 " " 6 00

For special cases we can quickly make what is required at slight advance in price.

Please put your name on all parcels sent to us.

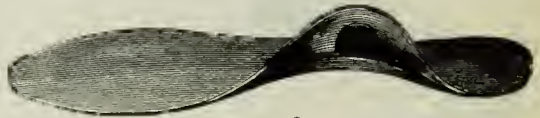
Orthopedic Apparatus. +

SUPPORT FOR FLAT FOOT.

7758.* LEATHER FLAT FOOT INSOLE WITH ARCHED SPRING.

This supporter is made of a double leather sole with steel springs inserted.

It is made in both full lengths and half lengths; the latter gives all the support of the former, but does not take up space in front of the shoe.



7758

We have in stock all sizes from children's to adults'.

Price for children sizes 4 to 13	each, \$1 25; per pair \$2 50
Price for misses and women sizes 1 to 7	" 1 50; " " 3 00
Price for boys " 1 " 4	" 1 50; " " 3 00
Price for men " 5 " 11	" 1 75; " " 3 50

7760.* "FOOT EAZER" ARCH SUPPORTER.

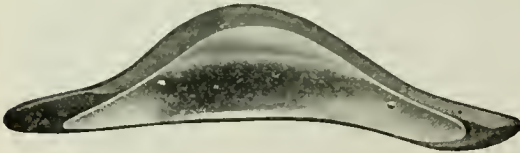


7760

Made of tempered steel, nickel plated and covered with russet leather. The pressure is not severe, but continuous, and the support is self-adjusting, which is accomplished by the double-spring construction. The top plate is free at the front end, which allows it to slide forth on the under spring as the weight is put on.

All sizes, for men and women each \$1 75; per pair \$3 00

7762.* "SILVERITE" ARCH SUPPORTER.

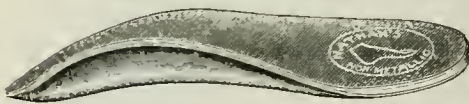


7762

Made of German silver, covered with russet leather, like the "Foot Eazer," but without the self-adjusting spring.

All sizes, for men and women each \$1 40; per pair \$2 50

7764.* FLEXIBLE CUSHIONED, NON-METALLIC ARCH SUPPORTER.



7764

This supporter is made entirely of leather, and fits the natural bridge of a normal foot; does not require any adjusting. It flexes with the foot, giving resiliency, but does not spring.

All sizes, for misses and women each \$1 40; per pair \$2 50
 All sizes, for men " 1 75; " " 3 00

When ordering, state size of shoe worn and we can supply proper size of any of the above supporters.

Orthopedic Apparatus. +

7766.* APPARATUS FOR OVER-RIDING OR HAMMER TOES

Consists of a stiff leather plate, reinforced by two thin steel stays, invisibly inserted. It extends from about the middle of foot to the toes, and is arranged with slits corresponding to the spaces between the toes. A soft linen strap is passed through these slits and over the contracted toe or toes and is fastened under the sole, tense enough to straighten the toes. The appliance is worn inside the stocking and kept in place by the same. To obtain satisfactory results it must be worn in a broad toe shoe.



7766

When ordering, make outline of foot (see page 543), and mark the spaces between the toes; also send patient's shoe, which should be broad at the toes and comfortable.

Price of apparatus \$2 75

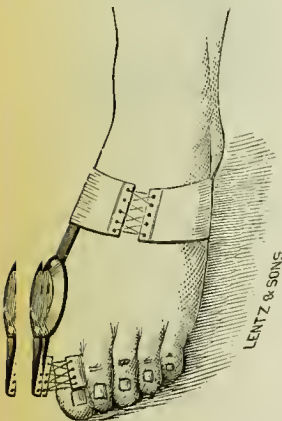
7768.* BIGG'S APPARATUS FOR BUNIONS.

Consists of a delicate lever of spring steel, with an oval ring in the center, which is provided with hinges at its anterior and posterior margins; it is attached to the instep by a laced band, and the toe to the extremity of the spring by a piece of webbing. It affords the articulation freedom of motion in the natural plane, whilst the malposition of the toe is gradually rectified by constant lateral traction.

Measurements and outline required, as per diagrams on pages 543 and 544:

1. Circumference at ball of foot (A).
2. Circumference at instep (B).
3. Outline of foot (fig. 15).

Price of apparatus \$5 00 to \$7 00



7768

7770.* BUNION PROTECTOR.

This appliance is one of the latest inventions for the protection and cure of bunions and enlarged joints. It has proven most satisfactory and given the best of results. It is well padded, simple and light, and can be worn inside an ordinary shoe. Made for left and right foot, in two sizes, for men and women.



7770

Price each, \$0 50; by mail, \$0 55, net

7772.* GERMAN FOOT POWDER.

Prevents irritation of the skin, and is recommended in all cases of sensitive and excessively perspiring feet. It is used to advantage in connection with the bunion protector, with the apparatus for bunions, for over-riding toes, etc.

Price per box, \$0 25; by mail, \$0 30, net

*All articles illustrated are designated by a *.*

Orthopedic Apparatus. +

7774* APPARATUS FOR BOW-LEG.

(GENU VARUM.)



7774

The mechanical treatment of bow-legs is very simple. 1. The bones in a softened condition, yielding under the weight of the body, must be assisted by extraneous help. 2. The arched bones must be restored to their normal condition. The apparatus illustrated answers the purpose admirably.

The support is given by two steel bars secured to a shoe and carried up as high as the thigh—jointed at the ankle and knee to allow the patient perfect freedom of motion. They are kept in place by calf and thigh bands.

Pads are placed respectively against the ankle and knee on the concave side of the limb, whilst a strap passed around on the highest point of the arc, inside of the outer bar, tightly buttoned to the steel bar on the concave side, gradually compels the leg to become parallel with it.



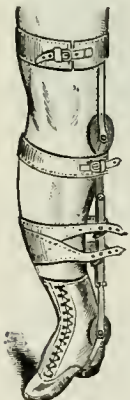
Made to lengthen between the ankle and knee-joints, to compensate for the growth of the child.

Measurements and outlines required, as per diagrams and directions on pages 543, 544 and 545 :

1. Patient's name (or sex).
2. Patient's age.
3. Right, left, or both legs.
4. Length from sole of foot to ankle-joint (1 to 2).
5. Length from sole of foot to highest point of arc.
6. Length from sole of foot to knee-joint, inner side (1 to 7).
7. Length from sole of foot to knee-joint, outer side (1 to 7).
8. Length from sole of foot to middle of thigh (1 to 9).
9. Circumference above ankle (3).
10. Circumference at calf (5).
11. Circumference above knee (8).
12. Circumference at middle of thigh (9).
13. Outline of limb (fig. 12).
14. Send well-fitting shoe or shoes to lace.

Price for one brace, according to size from \$12 00 to \$16 00
 Price for a pair of braces, according to size " 22 00 " 26 00

No shoes included.



7776

7776* APPARATUS FOR BOW-LEG, WITH SINGLE BAR.

This apparatus consists of a single steel bar, with ankle and knee joints, placed on the inner side of the leg, where it is secured by well-padded bands around the calf and knee, which latter furnishes the proper support. A bifurcated band passes around the highest point of the arc, and is buttoned at two points of the steel bar.

Made to lengthen between the ankle and knee joints, to compensate for the growth of the child.

Measurements and outline required, same as for No. 7774.

Send well-fitting shoe or shoes to lace.

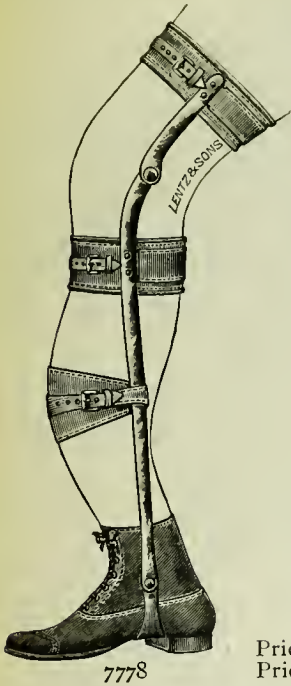
Price for one brace, according to size from \$10 00 to \$15 00
 Price for a pair of braces, according to size. " 19 00 " 25 00

No shoes included.

See Information and Terms on page 542.

Orthopedic Apparatus. +

778.* APPARATUS FOR ANTERIOR CURVATURE OF THE TIBIA.



7778

Consists of two steel bars, jointed at the ankle and knee, securely fastened to the shoe, and held in place by calf and thigh bands. The deformity is corrected by passing a stout leather band around the lateral bars and in front over the arc of the curvature, and adjusting it tightly by means of a buckle.

The points of resistance are the heel of the shoe and the posterior portions of the bands at calf and thigh.

For children, the apparatus is provided with adjustable steel bars to lengthen between ankle and knee-joints.

Measurements and outlines required, as per diagrams and directions on pages 543, 544 and 545:

1. Patient's name (or sex).
2. Patient's age.
3. Right, left, or both legs.
4. Length from sole of foot to ankle joint (1 to 2).
5. Length from sole of foot to highest point of arc.
6. Length from sole of foot to knee-joint (1 to 7).
7. Length from sole of foot to middle of thigh (1 to 9).
8. Circumference above ankle (3).
9. Circumference below knee (6).
10. Circumference at middle of thigh (9).
11. Outline of limb, posterior (fig. 11), but reaching to middle of thigh.
12. Outline of limb, lateral, from sole of foot to knee.
13. Send well-fitting shoe or shoes to lace.

Price for one brace, according to size . . . from \$13 00 to \$17 00
 Price for a pair of braces " 23 00 " 27 00

778o.* SAYRE'S ROTATING SPLINT FOR EVERSION AND INVERSION.

"To accomplish this object I had constructed a brace with the additional attachment of a rotating screw, which fulfills the indication completely. It is the application of the same principle which I have for so long a time used in the outward rotation of the femur in the third stage of hip-disease. In applying this force for the outward rotation of the foot, in cases of club-feet, a light metallic rod or shaft is secured to the bottom of the shoe, in front of the heel, passed up on the outer side of the limb, and connected with a well-padded pelvic belt, having joints, of course, opposite the ankle, knee and hip. Just below the joint opposite the hip the shaft is divided into two sections, and at this point is an endless screw, placed transversely to the shaft. The screw is worked by a key, and is capable of producing rotation through two-thirds of the arc of a circle. There is a well-padded band at the calf and another band above the knee."—"Orthopedic Surgery and Diseases of the Joints."

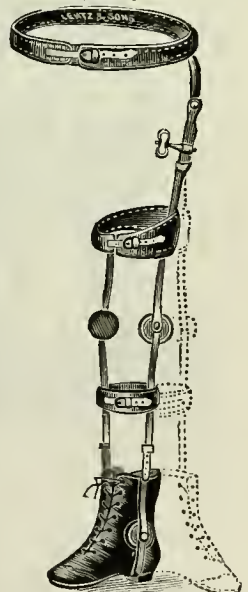
LEWIS A. SAYRE, M.D.

Measurements and outline required, as per diagrams and directions on pages 543, 544 and 545:

1. Patient's name (or sex).
2. Patient's age.
3. Right, left, or both limbs.
4. Eversion or Inversion.
5. Length from sole of foot to ankle-joint (1 to 2).
6. Length from sole of foot to knee-joint (1 to 7).
7. Length from sole of foot to middle of thigh (1 to 9).
8. Length from sole of foot to trochanter major (1 to 12).
9. Length from sole of foot to iliac crest (1 to 15).
10. Circumference above ankle (3).
11. Circumference at calf (5).
12. Circumference above knee (8).
13. Circumference at middle of thigh (9).
14. Circumference at iliac crest (15).
15. Outline of limb (fig. 8).
16. Send well-fitting shoe or shoes to lace.

Price of brace for one limb from \$30 00 to \$40 00
 Price of brace for both limbs " 45 00 " 55 00

7782.* ROTATING SPLINT FOR EVERSION AND INVERSION.



7780-7782

This Splint is in all respects the same as Sayre's Splint, but has a plain screw for making rotation, instead of the endless screw.

Price of brace for one limb, from \$25 00 to \$35 00; for both limbs, from \$40 00 to \$50 00

Orthopedic Apparatus. +

7784.* APPARATUS FOR KNOCK-KNEE.
(GENU VALGUM.)

Knock-knee is an inward inclination of the knee, caused by a relaxed and elongated condition of the internal lateral ligament of the knee-joint, and increased by the superincumbent weight of the body. To relieve this deformity, numerous mechanical contrivances have been constructed and employed. The one represented is the simplest and most convenient in slight cases for the patient to wear. It consists of two lateral steel bars attached to the shoe, and reaching to the upper third of the thigh. The bars are connected with calf and thigh bands, and provided with joints corresponding with the natural articulations to allow locomotion. The knee is secured in its normal position by a well cushioned pad.



7784

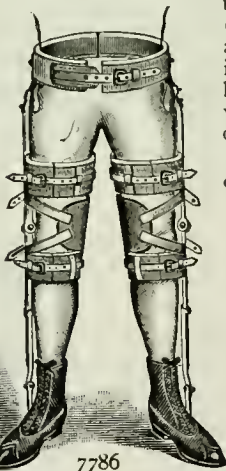
Measurements and outlines required, as per diagrams and directions on pages 543, 544 and 545:

1. Patient's name (or sex). 2. Patient's age.
3. Right, left, or both legs.
4. Length from sole of foot to ankle-joint (1 to 2).
5. Length from sole of foot to knee-joint (1 to 7).
6. Length from sole of foot to middle of thigh (1 to 9).
7. Circumference above ankle (3).
8. Circumference at calf (5).
9. Circumference at middle of knee (7).
10. Circumference at middle of thigh (9).
11. Outline of limb (fig. 13).
12. Send well-fitting shoe or shoes to lace.

Price for one brace, according to size from \$12 00 to \$16 00
 Price for a pair of braces, according to size " 22 00 " 26 00
 No shoes included.

7786.* APPARATUS FOR KNOCK-KNEE.
(GENU VALGUM.)

For the treatment of knock-knee this apparatus is the most effectual one in extreme cases. It consists of two lateral steel bars, with ankle-, knee- and hip-joints, and extending from the heels of strong shoes to a pelvic band which encircles the body. This band is made in two halves to admit of easy adjustment. Leather caps are placed at the inside of the knee-joints and buttoned tightly to the steel bars on the outside. The calf and thigh bands in connection with the knee caps will gradually bring the knee-joints into correct position.



7786

Measurements and outlines required, as per diagrams and directions on pages 543, 544 and 545:

1. Patient's name (or sex). 2. Patient's age.
3. Right, left, or both legs.
4. Length from sole of foot to ankle-joint (1-2).
5. Length from sole of foot to knee-joint (1-7).
6. Length from sole of foot to trochanter major (1-12).
7. Length from sole of foot to iliac crest (1-15).
8. Circumference at calf (5).
9. Circumference at middle of knee (7).
10. Circumference above knee (8).
11. Circumference at middle of thigh (9).
12. Circumference at iliac crest (15).
13. Outlines of limbs (fig. 13).
14. Send well-fitting, strong shoes to lace.

Price of apparatus for both legs, according to size from \$28 00 to \$40 00
 Price of apparatus for one leg, according to size " 20 00 " 25 00

7788. APPARATUS FOR KNOCK-KNEE.

In most respects same as fig. 7786, but extending only to the upper third of thigh. Measurements required, same as for No. 7784; however, give length from sole of foot to upper third of thigh (1-10) and circumference at that point (10).
 Price of apparatus for one leg, according to size from \$10 00 to \$15 00
 Price of apparatus for both legs, according to size " 19 00 " 25 00

See Information and Terms on page 542.

Orthopedic Apparatus. +

7790.* APPARATUS FOR TUBERCULOSIS IN ANKLE-JOINT, AND FOR FRACTURE OF LOWER LEG OR FOOT.

We illustrate herewith a form of brace as devised by Hessing, adapted for those cases which require a large degree of support, and also where the patient demands an appliance which should not show.

The steel frame-work is similar to that of brace fig. 7730, but differs from it in that it is fitted close to the foot and leg. It is worn inside the shoe and does not attach to it. This frame is supplemented by a leather legging, which is moulded over a cast of the leg and laced anteriorly. It fits close to the skin and affords the same absolute support as a plaster of Paris cast. The foot piece is constructed similarly and is securely attached to the stirrup of the brace.

The legging can be adjusted to changes in the leg by means of set-screws and slots in the upright bars, this feature being of great importance in many cases. The reinforcement by steel strips at back of the legging is another feature which adds to the efficiency of the brace.

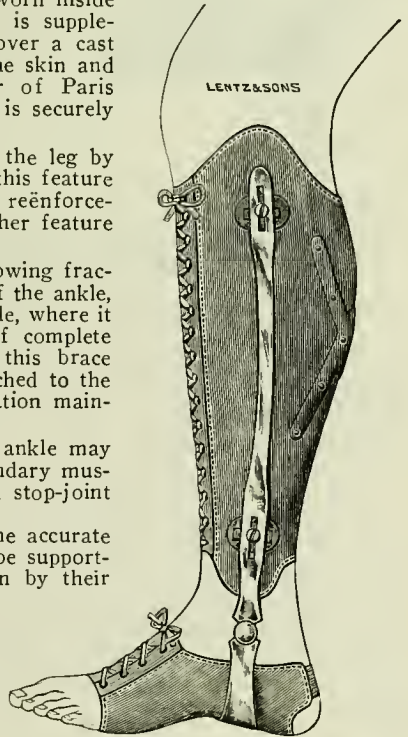
In cases of delayed union or non-union following fracture of the leg bone, or of pronounced instability of the ankle, or of disease or extensive injury to the foot or ankle, where it is advantageous to permit the patient to walk if complete protection were afforded to the affected part, this brace will produce the desired effect. As it is not attached to the shoe, it may be used day and night, and the fixation maintained constantly.

The normal antero-posterior motion at the ankle may be permitted in full to prevent much of the secondary muscle atrophy, or it may be limited by means of a stop-joint to meet the requirements of certain cases.

An important feature of all our braces is the accurate adjustment of the joints to those of the parts to be supported, hence the better preservation of the function by their united action.

When ordering this apparatus send plaster of Paris cast.

Price . . . from \$26 00 to \$40 00



7790.

7792.* DR. G. G. DAVIS' BRACE FOR FLAT-FOOT AND INFANTILE PARALYSIS.



7792

This apparatus was devised for a variety of uses, principally, however, for the support of flat-foot and for such cases of infantile paralysis in which the dropping of the toes is a prominent symptom.

It consists of a metal sole-plate and an upright steel bar reaching to garter, where it is secured by a band. It is intended to be worn inside the shoe.

The special feature in the construction of this apparatus is the peculiar bend of the upright bar. The same is fitted closely to the leg, and curves below the internal malleolus upward between the tibia and the tendo Achillis. This manner of construction renders the apparatus most serviceable and neat in appearance.

An instep strap may be added to retain the foot in the desired position, or a strap may be provided at the joint to allow the foot to be flexed to any desired extent.

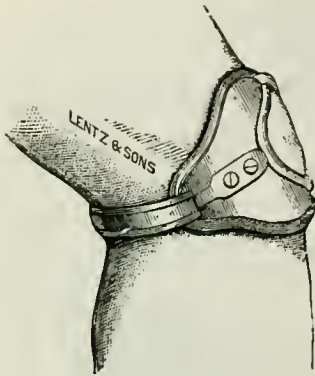
An ordinary shoe can be worn over this apparatus.

Measurements and outline required, same as for No. 7730

Send well-fitting shoe or shoes to lace.

Price for one brace, according to size \$12 00 to \$15 00
 Price for a pair of braces, according to size 20 00 " 28 00

Orthopedic Apparatus. ±



7800.* **MARSH'S KNEE CLAMP TO PREVENT DISLOCATION OF THE SEMILUNAR CARTILAGE.**

It consists of a metallic fenestrated cap, well padded, which exerts pressure directly on the lateral surfaces of the knee by means of a spring passing around the popliteal space. This is a very effective and practical appliance.

Directions required:

1. Right or left knee.
2. Circumference at knee-joint.

Price \$6 50

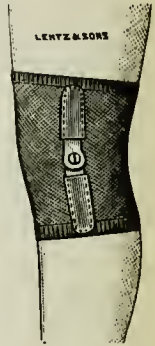
7802.* **DR. J. WILLIAM WHITE'S ELASTIC KNEE CAP TO PREVENT SLIPPING OF THE SEMILUNAR CARTILAGE.**

This knee cap is made of strong silk elastic and provided with a light jointed steel bar on each side; these two bars are secured in strong leather pockets sewed to the elastic. It is an excellent support for slight cases; it prevents the knee, to a certain extent, from twisting, can be worn with comfort and is very easily adjusted or removed. Usual length from 9 to 10 inches.

Measurements required, as per diagram on page 543.

1. Circumference at calf (5).
2. Circumference at garter (6).
3. Circumference at knee (7).
4. Circumference above knee (8).
5. Circumference five inches above knee.
6. State whether for right or left knee.
7. Give outlines of knee by moulding a lead-strip over inner and outer sides of knee and making tracing of these moulds on paper.

Price \$7 00 to \$8 00



7802



7804

7804.* **DR. J. WILLIAM WHITE'S LEATHER KNEE SUPPORT.**

This apparatus is intended to prevent dislocation of the semilunar cartilage in more pronounced cases.

It consists of two strong leather bands above and below the knee, reinforced by two semicircular steel bands which give the apparatus great firmness, and connected by two lateral jointed steel bars.

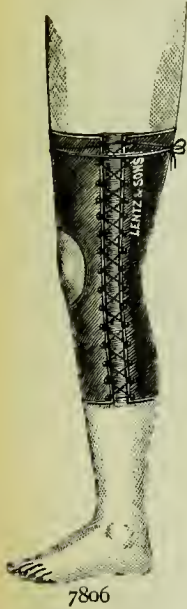
Measurements and outlines required, same as for No. 7802.

Price from \$14 00 to \$18 00

NOTICE.

As numerous and various orthopedic apparatus are constantly brought forward and suggested in medical journals as well as in text books, it is quite impossible for us to show them all in our catalogue; we would, therefore, respectfully suggest that physicians, in ordering apparatus which we do not show in the catalogue, should state the name and date of the journal or other publication in which they are described or illustrated.

Orthopædic Apparatus. +



7806.* KNEE CAP FOR AFTER-TREATMENT OF FRACTURED PATELLA, AND FOR INFLAMMATION OF THE KNEE-JOINT.

Authorities on surgery emphasize that great care must be taken to prevent rupture of the newly formed union, which so often takes place after recovery of the patient from fractured patella. For the purpose of guarding against such occurrence we make the knee-cap shown in illustration. It is for such cases where immobility of the joint is required, and to be effective it should extend from the upper third of thigh to the middle of lower leg.

It is made of hardened leather or of felt, lined with chamois and laced at the side; to allow of ventilation it is usually perforated. An opening is provided to free the patella from undue pressure, but the upper and lower borders of the opening should fit close to the newly united patella; this opening is filled out with some soft material to prevent any injury to the patella.

This knee-cap is also very successfully used in the treatment of diseases of the joint where absolute rest is demanded.

For making this apparatus a plaster of Paris mould is required, which should extend from the middle of leg to middle of thigh.

Price from \$12 00 to \$15 00

7808. KNEE-CAP FOR AFTER-TREATMENT OF FRACTURED PATELLA.

Similar to No. 7806 and is of good service in such cases where a fairly substantial union has been the result of the general treatment.

Made of soft leather or heavy sateen, either to lace or to buckle. Light steel springs are inserted at the sides and at the back. If desired, we attach two small crescent shaped pads to the inside above and below the patella. An opening is cut over the patella and same is covered with soft chamois.

This knee-cap will allow the knee some mobility.

Measurements and outlines required, same as for No. 7802.

Price from \$5 00 to \$6 00

7809. DR. JAMES K. YOUNG'S KNEE-CAP FOR DISPLACEMENT OF SEMILUNAR CARTILAGE AND SPRAINED LIGAMENTS.

Identical with No. 7808, but has in addition lateral steel hinges, with or without stop at the knee-joint, as the case may require. An opening is cut over patella and popliteal space, and same is covered with soft kid leather.

Measurements and outlines required, same as for No. 7802.

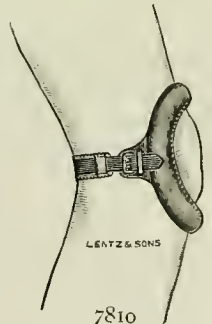
Price from \$10 00 to \$12 00

7810.* DR. G. G. DAVIS' APPARATUS FOR DISLOCATION OF THE PATELLA.

A simple but very efficient appliance to arrest the patella in its normal position and prevent its dislocation. It consists of a soft circular ring made of rubber tubing and covered with chamois; a webbing strap is provided posteriorly for proper adjustment.

Measurement required: Circumference at knee (7).

Price \$4 50

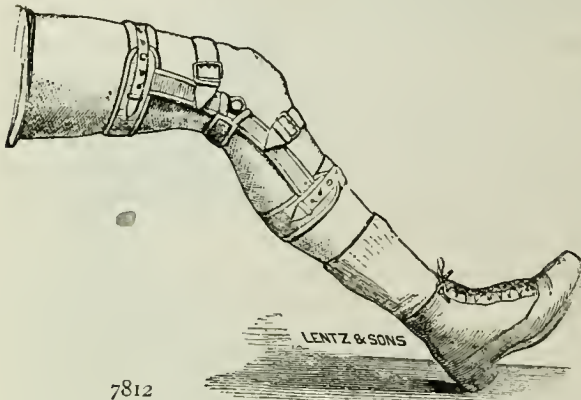


See also Section XVII for Splints for Fracture of the Patella.

All articles illustrated are designated by a *.

Orthopedic Apparatus. †

7812.* MARSH'S APPARATUS FOR CHRONIC DISLOCATION OF THE PATELLA.



This apparatus consists of two lateral steel bars extending from the middle of the thigh to the middle of the leg, and provided with joints at the knee. It is fastened to the limb by well padded thigh and calf bands. The patella is secured in its normal position by straps above and below it, and receives further adequate lateral support by the joints and band passing around the popliteal space. Measurements and outlines required, as per diagrams and directions on pages 543, 544 and 545:

1. Patient's name (or sex).
2. Right or left limb.
3. Length from middle of leg to knee-joint (4 to 7).
4. Length from knee-joint to middle of thigh (7 to 9).
5. Circumference at middle of leg (4).
6. Circumference at knee-joint (7).
7. Circumference at middle of thigh (9).
8. Outline of limb from middle of leg to middle of thigh (4 to 9).

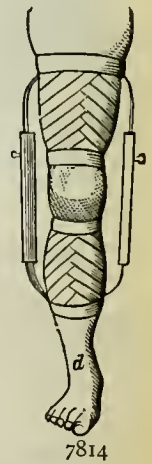
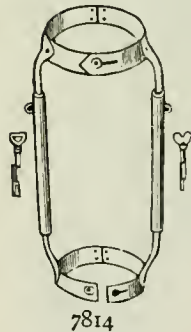
Price from \$12 00 to \$15 00

7814.* SAYRE'S APPARATUS FOR INFLAMMATION OF THE KNEE-JOINT.

It consists of two steel bands or collars, about an inch wide, embracing the limb—the one above the ankle, the other at the upper third of the thigh—which admit of adjustment by means of a hinge and slide, and which may be locked at any given point by turning the nuts with the key fitted for this purpose. They are connected on either side by an extension rod of the rack and pinion (or of screw) construction.

After applying the strips of adhesive plaster, the connecting rods are extended simultaneously by the keys of the rack and pinion construction (or by turning the screws if made in the latter manner). Thus the articulating surfaces of the tibia and femur are separated from each other, and the limb brought nearly straight until pressure can be made on the foot without pain. A roller bandage is applied over the foot and leg up to the apparatus, to prevent edema.

A large, coarse sponge should be placed in the popliteal space, and other pieces of sponge completely surround the knee-joint; these should be



secured by a tight roller bandage and then saturated with cold water. The cold water not only reduces the inflammation of the joint, but promotes the absorption of the deposits that generally occur around and in a joint in this condition of chronic inflammation.

Measurements required, same as for No. 7812.

Price, according to size from \$18 00 to \$22 00

See Information and Terms on page 542.

At slight advance in price we can make any of the leg apparatus with "concave-convex" bars; the upright bars forged in dies concave inside (against the limb), and convex outside; the bracing bands at ankle, calf and thigh forged half round; heavily nickel-plated.

Braces made in this manner are neater in appearance, slightly lighter in weight, yet stronger than regular style, and it can truthfully be said that they represent the acme of perfection of the orthopedist's art, pleasing to the most fastidious person.

Orthopedic Apparatus. +

7816.* APPARATUS FOR SYNOVITIS OF THE KNEE-JOINT.

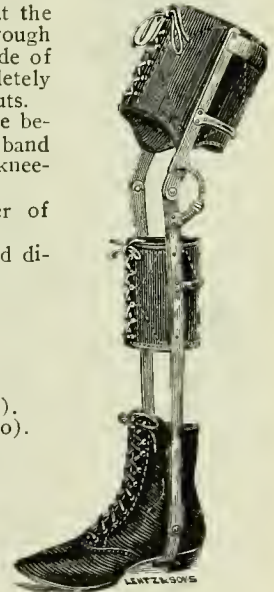
The function of this apparatus is to keep the knee for a time in a fixed position, and as the case requires it to gradually allow some motion. This is obtained by the mechanism provided at the knee-joint, which consists of a semi-circular screw running through a bracket projecting from the bar below the joint; on each side of this bracket a screw-nut is provided to either fix the joint completely or give it any desired allowance of motion by separating the nuts.

Two broad leather bands, well padded, one above and one below the knee, will hold the leg firmly to the brace. The upper band should fit closely around the thigh to take the weight off the knee-joint to a certain extent.

This appliance has been employed in a great number of cases with the very best results.

Measurements and outline required, as per diagrams and directions on pages 543, 544 and 545:

1. Patient's name (or sex).
2. Patient's age.
3. Right or left limb.
5. Length from sole of foot to ankle-joint (1 to 2).
6. Length from sole of foot to knee-joint (1 to 7).
7. Length from sole of foot to middle of thigh (1 to 9).
8. Length from sole of foot to upper third of thigh (1 to 10).
9. Circumference above ankle (3).
10. Circumference at calf (5).
11. Circumference at garter (6).
12. Circumference at middle of knee (7).
13. Circumference above knee (8).
14. Circumference at middle of thigh (9).



7816

15. Circumference at upper third of thigh (10).
16. Outline of limb (fig. 8).
17. Send well-fitting shoe to lace, or measurements and outline of foot as per directions on pages 543 and 544.

Price of apparatus, according to size, \$20 00 to \$24 00.

No shoes included.

7818.* APPARATUS FOR SYNOVITIS AND FOR AFTER-TREATMENT OF FRACTURED PATELLA.

This apparatus is similar to the one described under No. 7816, but is simplified in its construction.

It is light in weight, and is designed for such cases in which it is desired to prevent movement at the ankle-joint when patient is walking, or where mobility at the knee shall take effect gradually.

To the lateral bar just opposite the articulation is securely attached a rotary steel plate which is controlled by a set-screw and constructed in such manner as to give the desired allowance of motion at the knee-joint. The padded leather bands around garter of leg and the thigh are narrow and less cumbersome than those of the former apparatus.

Measurements and outline required, same as for No. 7816.

Send well-fitting shoe to lace.

Price of apparatus, according to size, from \$20 00 to \$25 00.

No shoes included.



7818

Orthopedic Apparatus. †

7820.* TRACTION KNEE SPLINT FOR HEY'S JOINT AND FOR DISLOCATION OF THE SEMILUNAR CARTILAGE.

The purpose of this brace is to prevent every movement at the knee and ankle except antero-posterior motion, in short, to turn the knee into true hinge-joint, removing entirely the rotation of the tibia. Dr. Newton M. Shaffer writes: "The important part next to its simple hinge movement is the joint at the knee, which is so arranged that it will stop the extension just at the point of comfort to the patient, and this point of comfort represents an absence of strain upon the knee-joint ligaments. This is very essential to the cure of the trouble, for experience proves that if the strain is taken from the ligaments, they will shorten and the wobbly knee will gain stability and strength in a few months."

The brace is connected with the shoe, jointed at the ankle and knee, and is provided at calf and thigh with semi-circular steel bands, which connect firmly the lateral bars and retain the joints of the apparatus in perpendicular position. A small leather band at calf and a broad padded cuff at thigh hold the brace firmly to the leg, while two adjustable straps located below and above the knee add the proper support at that portion.

A knee-pad provides for a moderate pressure on the condyle. It is important that the center of this pad should be opposite the true center of motion, and that it should rest snugly against the condyle without undue pressure.

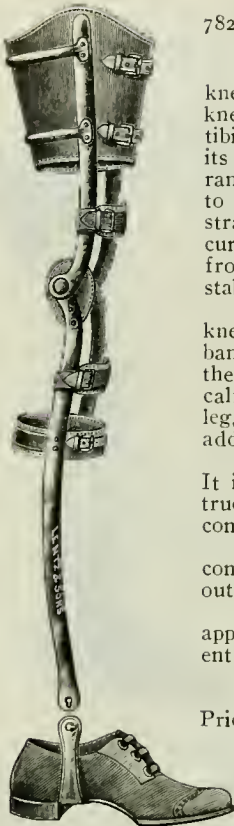
The principal strength of the apparatus is in the rod which connects the knee part with the stirrup; the rod is preferably at the outer side of the leg.

An interchangeable ankle-joint admits of easy removal or application of the apparatus, and enables the wearer to use different shoes on the same brace.

Measurements and outline required, same as for No. 7816.

Send well-fitting shoe to lace.

Price of apparatus, according to size from \$26 00 to \$35 00



7820

7822.* APPARATUS FOR ANCHYLOSIS OF THE KNEE-JOINT.

Anchylrosis of the knee is frequently a sequence of injuries and diseases of that part. The position of flexion being

most naturally assumed by the joint during the progress of the inflammation, the limb is found in this posture in the majority of cases. This occasions great difficulty in walking because of the decided shortening which is present, and it becomes necessary to straighten the limb by some means, so as to restore the symmetry of the limbs and to prevent spinal deformity.

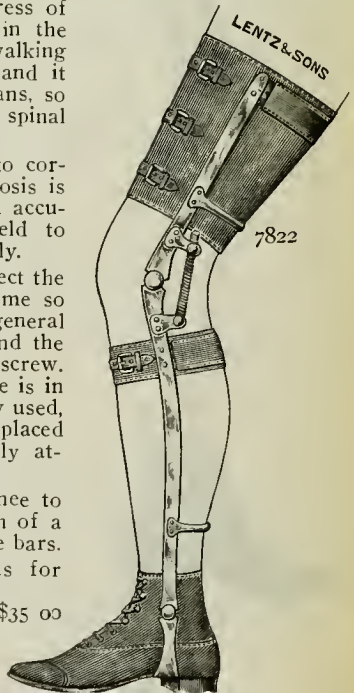
Certain of these cases lend themselves readily to correction by means of braces, when the form of anchylrosis is other than bony and the cause has been carefully and accurately ascertained. The contraction will usually yield to pressure which, though slight, is kept applied constantly.

Of the many forms of appliances devised to correct the flexion, there is none more simple and at the same time so entirely effective as the one herein illustrated. The general form of the brace is that of the ordinary leg brace, and the extension at the knee is accomplished by means of a screw. The manner in which the same is attached to the brace is in marked contrast to the Strohmeyer Screw, so commonly used, and which is placed at back of the knee. Here it is placed at the side, close to the leg, and neatly and securely attached along one of the upright bars.

If there exists a pronounced tendency of the knee to push forward, it is necessary to limit it by the addition of a leather cap, buckled across the front and around the side bars.

Measurements and outline required, same as for No. 7816. Send well-fitting shoe to lace.

Price of apparatus from \$26 00 to \$35 00



7822

See Information and Terms on page 542.

Orthopedic Apparatus. +

7824.* APPARATUS FOR PARTIAL PARALYSIS OF THE THIGH.

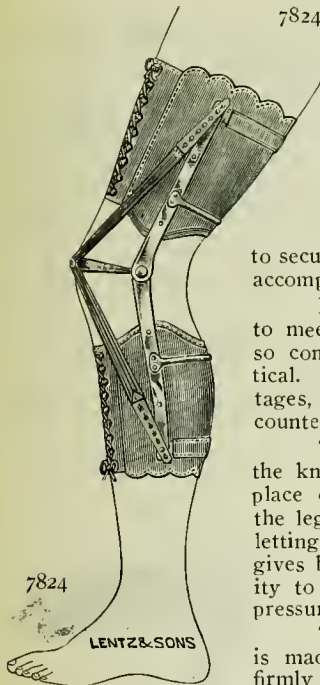
One of the most troublesome conditions to treat successfully is weakness or paralysis of the exterior muscles of the thigh, a condition which may incapacitate the patient partially or entirely from walking and interfere seriously with his work. Whether due to infantile paralysis, hemiplegia, fracture of the patella with wide separation of the fragments, rupture of the patellar ligaments, or separation of the tubercle of the tibia, there exists inability

to securely extend the leg, and instability after extension has been accomplished.

Many different forms of appliances have been devised to meet this emergency, some of which though efficient being so complicated and so cumbersome as to be entirely impractical. The one illustrated herewith possesses several advantages, which recommend it where no severe strain is encountered.

The four elastic bands acting between the center of the knee anteriorly and each end of the lateral bars take the place of the extensor muscles, and not only serve to extend the leg, but also to prevent it when extended from flexing and letting the patient fall. The steel spring in front of the knee gives both fixation to the rubber muscles and increased stability to the brace, and yet leaves the knee entirely free from pressure.

The appliance is lighter than the ordinary leg brace and is made strong and durable. The thigh and calf bands lace firmly and maintain the apparatus in proper position.



7824

LENTZ & SONS

When ordering this apparatus, a plaster of Paris mould is required.
Price from \$24 00 to \$36 00

7826.* LOCK-JOINT APPARATUS FOR PARALYSIS OF THE LEG, AND FOR SUPPORT AFTER RESECTION OF THE TIBIA.

This apparatus is intended for paralysis of one limb. The side bars are forged concave, and the joints made somewhat stronger than for those cases where the patient has control of the knee-joint. The bands at side and calf are made of strong but soft leather. Below the ankle-joint, extending from the stirrup, there projects a bracket to which is attached a strong adjustable elastic strap acting as an artificial muscle.

A similar device can be arranged at the knee-joint, also with a strong elastic strap, working upon eccentric leverages, and leaving the knee entirely free from all pressure.

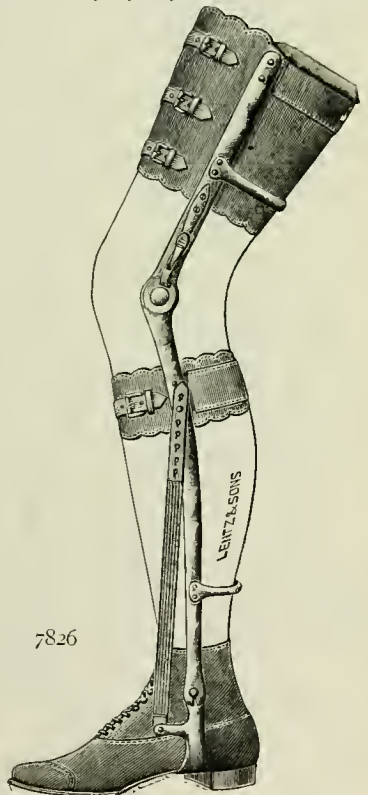
An improved, automatic lock arrangement at the knee-joint keeps the limb stiff while walking, and permits of flexion at will.

When the brace is to be worn after resection of the tibia, the band at calf is either made broader or supplemented by a second one above the ankle, in order to give all possible support.

Measurements and outline required, same as for No. 7816.

Send well-fitting shoe to lace.

Price of apparatus as illustrated, according to size from \$24 00 to \$45 00



7826

LENTZ & SONS

Orthopedic Apparatus. +



7828

7828.* LOCK-JOINT APPARATUS FOR PARALYSIS OF THE KNEE AND ANKLE-JOINTS.

Devised for paralysis of long standing where there is no control of the lower extremity. It consists of two lateral bars hinged at the knee and ankle-joints, with well padded bands at the garter, above the knee and at upper third of thigh. It is provided with a lock-joint to hold the knee straight in walking.

This style of lock is preferable for ladies, as it can be worked from the front, outside of the dress, by merely pressing the hand on the lever, when the wearer wishes to sit down and flex the knee; when wearer rises and straightens the limb it will lock itself automatically.

A knee cap is also provided, attached to the side bars, which helps to hold the knee straight. When necessary, pads are placed at the ankle and knee-joints.

An artificial muscle can also be attached to shoe, adjustable at the side bar, to lift up the toes.

Measurements and outline required, same as for No. 7816.

Send well-fitting shoe to lace.

Price, according to size from \$24 00 to \$35 00

7830.* APPARATUS FOR PARTIAL PARALYSIS OF ONE LIMB.

(Hemiplegia.)

This apparatus is made for hemiplegia affecting the limb as far as the hip-joint, and answers both as a support and in aiding the restoration of the mobility in cases of wasting palsy, or when certain groups of muscles become atrophied, losing their power to perform their functions. It excites the muscles to action, aiding them by artificial substitutes made of elastic, which are placed at the brace so as to gently exercise the affected parts.

We attach these artificial muscles for flexion or for extension, as the case may demand.

Measurements and outline required, as per diagrams and directions on pages 543, 544 and 545:

1. Patient's name (or sex).
2. Patient's age and weight.
3. Right or left limb.
4. Length from sole of foot to ankle-joint (1-2).
5. Length from sole of foot to knee-joint (1-7).
6. Length from sole of foot to perineum (1-11).
7. Length from sole of foot to trochanter major (1-12).
8. Circumference above ankle (3).
9. Circumference at garter (6).
10. Circumference at knee (7).
11. Circumference above knee (8).
12. Circumference at middle of thigh (9).
13. Circumference at upper third of thigh (10).
14. Circumference at iliac crest (15).
15. Outline of limb (fig. 9).
16. Send well-fitting shoe to lace.

A general description of the case is necessary to guide us in placing the artificial muscles at the proper places.

Price of apparatus, according to size \$35 00 to \$50 00

7832. APPARATUS FOR PARTIAL PARALYSIS OF BOTH LIMBS.

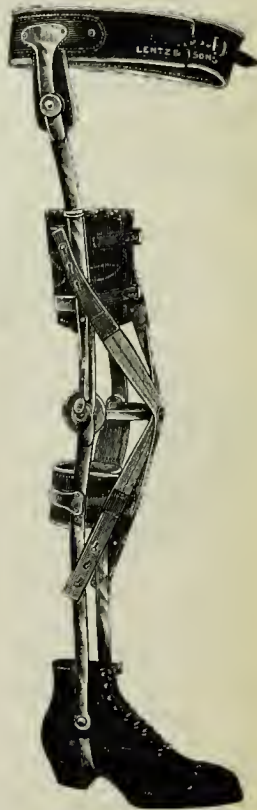
(Paraplegia.)

Identical with No. 7830, except that it is made for both limbs.

Price of apparatus, according to size \$45 00 to \$75 00

See Information and Terms on Page 542.

All articles illustrated are designated by a *.



7830

Orthopedic Apparatus. +

7834.* COMBINED APPARATUS FOR SPINAL DEFORMITY, PARALYSIS AND PARAPLEGIA.

We recommend this apparatus highly and feel assured that it will be found invaluable in various cases of deformity of the spine with concomitant lack of sustaining power of one or both legs, in cases of paralysis, and in cases of lateral curvature of the spine due to shortening of the leg following hip-joint disease or hemiplegia. According to the requirements of the case the apparatus can be modified in its construction.

The illustration shows the leg braces connected detachably with the spinal apparatus; either can be worn independently.

In cases of paraplegia or hemiplegia where the spine is not affected, the apparatus is carried up to the hip with a soft padded band around the pelvis. Elastic straps are attached to aid the restoration of the mobility of the muscles or as artificial substitutes of the muscles for flexion or extension.

The artificial muscle attachment at the knee-joint as supplied in this brace is the same as shown in Fig. 7824. We wish to call especial attention to it as an innovation upon the old style which caused undue pressure upon the patella and the surrounding tissues. The elastic straps work upon eccentric leverages and rest on a semi-circular steel spring which is interchangeably attached to the lateral uprights at the point of motion; thus the knee is left entirely free from all pressure, and after the leg is bent by the flexors, extension of the leg upon the thigh occurs promptly.

The apparatus is made with an automatic lock-device at the knee-joint, or with other additions and modifications as may be found necessary.

Measurements and outlines required:

For leg braces, same as for No. 7830.

For spinal corset, same as for No. 7930.

Send well-fitting shoes to lace.

Price of apparatus for spine and one leg	\$60 00	to	\$75 00
Price of apparatus for spine and both legs	90 00	"	125 00
Price of apparatus for one leg only	35 00	"	50 00
Price of apparatus for both legs only	45 00	"	75 00

According to size.

Shoes and elevation charged extra.



7834

7836.* LOCK-JOINT APPARATUS FOR PARALYSIS.

In most essentials the apparatus here illustrated is the same as No. 7828.

The lock-joint is of somewhat different construction, being operated at the side instead of from the front of brace; it is not conspicuous when worn with trousers, therefore better suited for the male sex.

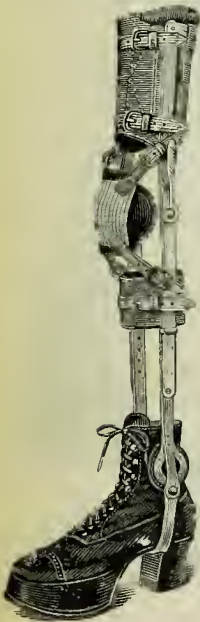
In such cases where shortening of the limb exists, a shoe is furnished with leather covered cork sole, to compensate for the shortening of the leg.

Measurements and outline required, same as for No. 7816; and for shoe as per directions on page 543.

To determine the height of the elevation, have the patient (both feet bare) stand erect; place books under the short foot until the shoulders and pelvis are in horizontal lines; then measure the thickness of these books, which will be the height required for the extension. (See also No. 7890).

Price of apparatus, according to size from \$24 00 to \$35 00

Shoes and elevation are charged extra.



7836

An important feature in all our braces is the accurate approximation of the joints to those of the parts to be supported; hence we accomplish better the preservation of the natural function.

Orthopedic Apparatus. +**7838* LENTZ'S IMPROVED APPARATUS FOR PARALYSIS.**

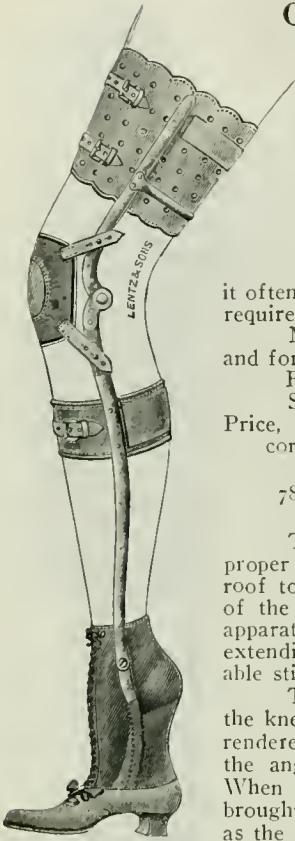
It is in general the same as apparatus fig. 7836. The lock-joint is located at the side instead of the front of the brace and operates automatically. In such cases where a shortening of the leg exists, an inside elevation can be made to which the brace is fastened, and it may be incorporated into a shoe as shown in this illustration.

Because it is worn with a regular stock shoe, the apparatus is decidedly neater in appearance than one with the commonly used high cork shoe, although at the start it often demands some efforts by the wearer to keep the foot in the required position.

Measurements and outlines required, same as for No. 7816; and for foot enclosure, as per directions on page 543.

For instructions to ascertain height of elevation, see No. 7836. Send well-fitting shoe to lace.

Price, including inside elevation, but regular shoe furnished; according to size from \$50 00 to \$75 00



7838

When the wearer sits down, the bracket releases by being pushed against the seat of the chair and allows the knee to flex. A semi-circular leather strap is additionally provided, attached to the very ends of the upper radial arm of the bracket, to control this lock-device with the hand. This manner of construction permits the patient to walk safely with rigid knee, and to bend the knee at will when sitting.

A soft padded knee cap secures a comfortable support to the knee when walking.

Measurements and outlines required, as per diagrams and directions on pages 543, 544 and 545:

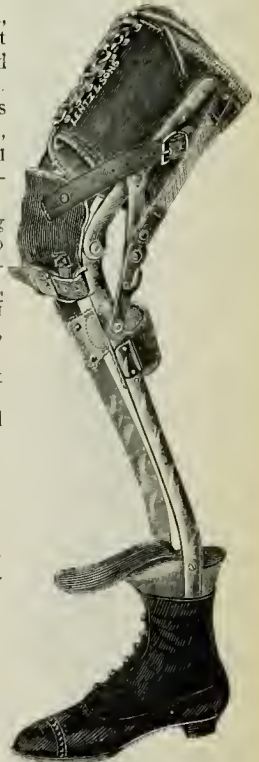
1. Patient's name (or sex).
2. Patient's age and weight.
3. Right or left leg.
4. Length from sole of foot to ankle-joint (1 to 2).
5. Length from sole of foot to middle of knee (1 to 7).
6. Length from middle of knee to perineum (7 to 11).
7. Circumference at garter (6).
8. Circumference at middle of knee (7).
9. Circumference above knee (8).
10. Circumference at middle of thigh (9).
11. Circumference at upper third of thigh (10).
12. Distance from heel to floor; when standing erect.
13. Distance from toes to floor, when standing erect.
14. Outline of limb, posterior (fig. 8).
15. Outline of limb, lateral, showing angle of flexion.

Send well-fitting shoe to lace.

Price, according to size

See Information and Terms on page 542

7840



\$70 00 to \$95 00

Orthopedic Apparatus ±

7842.* APPARATUS FOR THE SUPPORT OF WEAK LEGS.

This apparatus is for the support of weak legs, when, by reason of relaxed joints, softening of the osseous structure, or partial paralysis, they cannot quite bear the weight of the body, but where the muscles still retain some power to perform their respective functions. Light steel bars are secured to the shoes and carried up the sides of the legs to the pelvis. They are provided with joints corresponding to the natural ones and are secured to the calf, thigh and pelvis by well padded bands. When necessary, pads are placed at the ankle- and knee-joints.

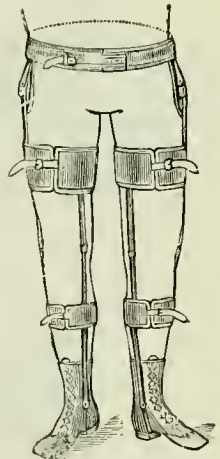
Measurements and outlines required, same as for No. 7830.

Send well-fitting shoes to lace.

Price of apparatus for both limbs, according to size. \$35 00 to \$60 00

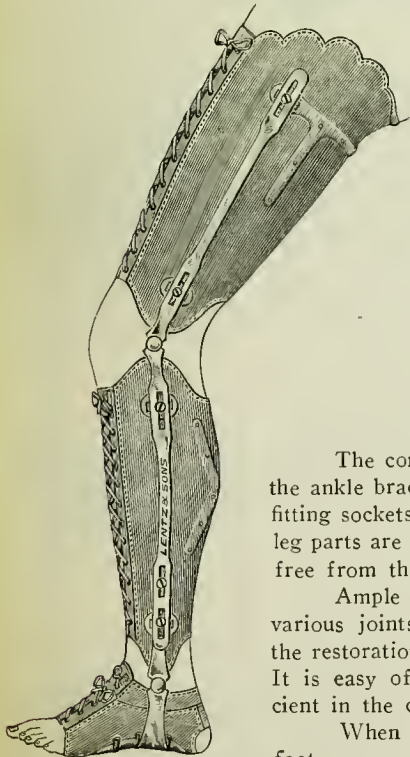
Price of apparatus for one limb, according to size . 25 00 " 45 00

No shoes included.



7842

7844.* APPARATUS FOR THE LEG, AS DESIGNED BY HESSING.



7844

To secure the desired support for the foot, ankle or knee, it is oftentimes advantageous or necessary to extend the brace to include the thigh, whereas in fractures of the upper half of the tibia and fibula, or in close proximity to the knee-joint, it is quite essential that the applied splint include the thigh as well as the leg and foot.

In fig. 7790 we have shown and described one of the most efficient braces for the foot, ankle and lower part of the leg; with that appliance as a foundation, the picture illustrates its amplification as used by HESSING to meet the requirements of conditions higher up (see also fig. 7870).

The construction of the thigh portion is the same as of the ankle brace, and absolute support is afforded by the close-fitting sockets which are laced about the parts. The thigh and leg parts are adjustable to changing needs, and, the brace being free from the shoe, may be worn constantly, if desired.

Ample allowance is made for normal movement at the various joints, hence the appliance will be found to promote the restoration of free function in a most satisfactory manner. It is easy of adjustment, neat in appearance, and most efficient in the cases in which it is indicated.

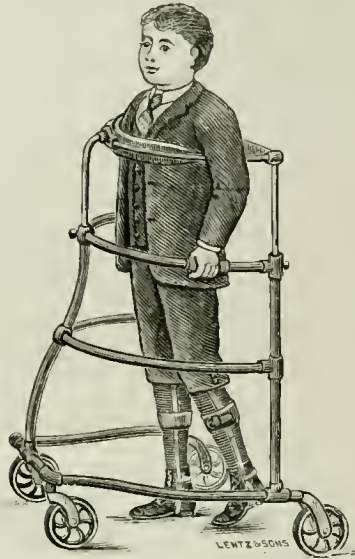
When ordering, send plaster of Paris cast of limb and foot.

Price from \$60 00 to \$80 00

An important feature in all our braces is the accurate approximation of the joints to those of the parts to be supported; hence we accomplish better the preservation of the natural function.

Orthopedic Apparatus.

7850.* WHEEL CRUTCH. ±



7850

Illustration shows an admirable contrivance for patients who have lost control of the lower extremities, for enabling them as much as possible to move about freely.

The lower portion is constructed from light, yet strong metal tubing; the upper portion from metal rods which slide within the tubing. This arrangement allows adjusting to the height of the patient, higher and lower, within the range of 8 to 12 inches, according to size. A chest and axillæ pad is provided at the upper rod. The apparatus is constructed in such a manner as to enable the patient to move at the least exertion and to change the direction of movement at the slightest attempt. The wheels are bound with sole leather, to prevent noise and jarring on the floor.

For very helpless patients a body support is attached which can be adjusted to relieve the arms, and allows the patient to rest, while using the crutch.

This crutch is especially adapted for cases of hip joint disease, diseases of the spine, paralysis and deformities of the legs and feet.

Measurements required :

Width of the body in direct line from arm pit to arm pit.

Distance from arm pit to floor, arms hanging at the side.

Circumference of waist over underclothing, if supporter is needed.

To measure width of body correctly, place a ruler under each arm close to the body, projecting in front parallel and take distance between (not following curve of chest).

Price of wheel crutch, according to size	from \$35 00 to \$50 00
“ “ supporter “ “ “	extra 5 00 “ 7 00

CHILDREN'S SHOES (Δ)

For use with Weak-Ankle, Bow-Leg, Knock-Knee Braces.

The shoes form an important adjunct to these apparatus, and to be of the most benefit they should be comfortable and common sense, to lace, with durable uppers, broad soles, strong shanks and low heels (not spring heels). For greater ease in applying braces they should be open to within 1½ inch from tip.

As such shoes cannot be obtained at stores, we anticipate the convenience of our patrons and carry a stock of them specially made for us according to our specifications. These shoes are durable and neat, and suitable for the intended purpose.

Sizes 4 to 7½	per pair \$2 25
“ 8 to 10½	“ “ 2 50

See Information and Terms on page 542.

Orthopedic Apparatus. ±

7860.* DR. L. A. SAYRE'S SHORT SPLINT FOR THE TREATMENT OF HIP JOINT DISEASE.

Dr. Sayre's splint is intended to make traction upon the thigh to relieve the tension in the hip joint.

This instrument consists of a pelvic band A, passing partly around the body under the crest of the ilium, well padded on its inner surface, to which usually two perineal straps B B, are fastened for counter extension; the outer surface of the pelvic band holds a ball-and-socket joint terminating into a tubular steel rod, passing down the outer side of the thigh to within about two inches of the lower end of the femur. This rod is divided into two sections, E and C, the lower solid part E moving within the upper tubular part, C, and controlled by a ratchet and key, D, by which the length can be in- or decreased.

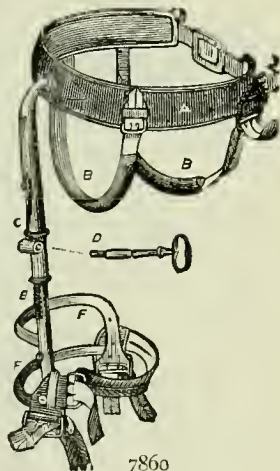
At the lower extremity of the bar E is a projecting branch F F going over to the inner surface of the thigh to receive the attachments of the plaster.

Both of the lower extremities terminate in a cylindrical roller, over which the tabs of the plasters are attached to the two buckles placed at the lower ends of the instrument.

This splint is suited for such cases where the knee is not flexed or affected, and where mobility of the joint is allowed.

Measurements required as per diagram on page 543.

- | | |
|-----------------------------|--|
| 1. Patient's name (or sex). | 5. Length from knee joint to above trochanter major (7 to 13). |
| 2. " age and weight. | 6. Circumference above knee (8). |
| 3. General appearance. | 7. " at middle of thigh (9). |
| 4. Right or left hip. | 8. " of body above trochanter major (13). |
- Price, according to size from \$20 00 to \$25 00



7860

7862.* DR. L. A. SAYRE'S LONG SPLINT FOR HIP JOINT DISEASE. (MORBUS COXARIUS.)

This splint differs from the short one before described in these particulars: It extends the entire length of the limb, and receives the weight of the body upon a cross bar under the foot and a steel girdle encircling the pelvis, having two perineal straps.

The long hollow steel tube reaching from the pelvis to the sole of the foot, has a solid steel rod running inside of it, provided with a ratchet, movable up and down for lengthening and shortening, by a key which works in the ratchet through an opening on the outer side of the tube.

The upper part of the long hollow steel tube is solid and strong, fastened to the steel girdle either by a simple bolt making a flat joint, permitting forward and backward movements of the hip joint, or by a ball-and-socket joint, which permits all movements that the hip joint performs in its natural state.

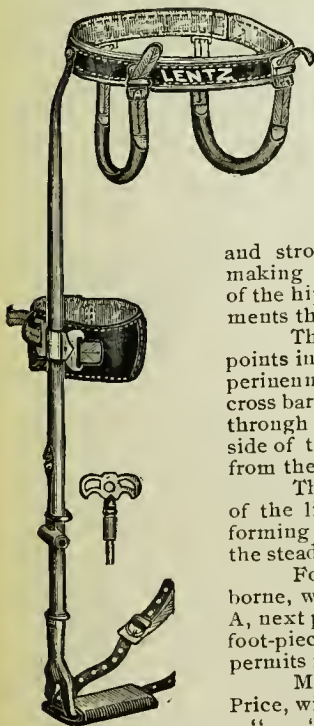
The steel girdle is well-padded. From two points in front to two points in the back perineal straps for counter extension pass along the perineum and under the ischii. A stout leather sole is fastened to the cross bar at the bottom of the instrument; a strong leather strap passes through apertures just above the cross bar, turns up an end on each side of the ankle and fastens into the buckles attached to the tabs from the adhesive plaster of the leg.

There is also attached to the bar running along the outer side of the limb a cross piece which can be adjusted to a position conforming to that of the knee-joint; to this is buckled a knee-cap for the steady support of the knee.

For comfort and where the application of plaster cannot be borne, we also manufacture a cylindrical spring box, as shown on fig. A, next page, fastened to the sole of the shoe, into which slips the foot-piece of the splint and is firmly held in place by a spring. This permits free motion of the ankle-joint.

Measurements and outline required same as for No. 7864.

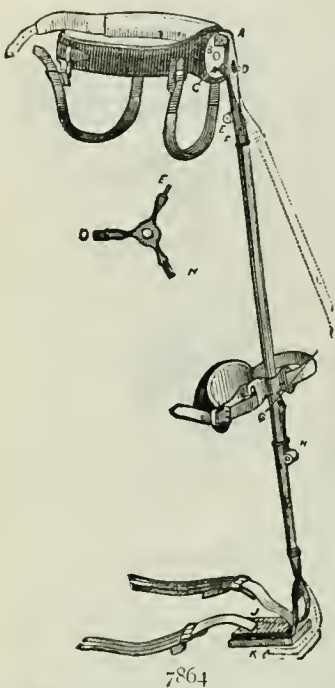
- | | |
|---------------------------------------|--------------------|
| Price, with plain joint | \$30 00 to \$40 00 |
| " " ball-and-socket joint | 35 00 " 45 00 |
| " of cylindrical spring box | extra 5 00 |



7862

Orthopedic Apparatus. ±

7864.* SAYRE'S IMPROVED LONG SPLINT FOR HIP-JOINT DISEASE.



The apparatus herewith shown is in its general construction the same as No. 7862. The essential improvements are located at the pelvic band, and consist of a platform joint and accessories, the functions of which are as follows:

The long rod is attached at A to a round revolving plate or platform, B, which is fastened to the pelvic band. When the plate B is moved upon its axis, the long rod is moved forward and backward. From the point A the long rod moves from and towards the leg, as shown by the dotted lines towards L. C is a screw terminating at D into a small square stem of steel, fitting to a key. This screw turns in and out of the revolving plate, B, and has at the end of its thread a little knob, which is a little larger than the perforation at the upper end of the long rod, so that when the key is applied at D and turned, the screw C will force the long rod in the direction towards L. In this manner abduction is made at F.

The long rod is divided into two parts, the lower part holds an endless screw transversely, which is worked by a key, and rotation thus produced.

For comfort and where the application of plaster cannot be borne, we also manufacture a cylindrical spring-box, as shown on fig. A, fastened to the sole of the shoe, into which slips the foot-piece of the splint and is firmly held in place by a spring. This permits free motion of the ankle joint.

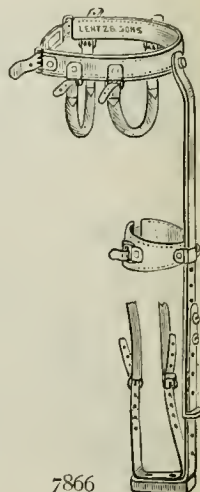
For cases where the thigh is strongly flexed, we provide further an adjustable elastic band for the purpose of keeping up a constant tractive force, and yet allowing flexion when the patient wishes to sit down.

Measurements required as per diagram on page 543:

1. Patient's name or (sex).
2. Patient's age and weight.
3. Right or left leg.
4. Length from sole of foot to above trochanter major (1 to 13).
5. Circumference of body above trochanter major (13).
6. Circumference at knee (7).
7. Send well fitting lace shoe, if spring box is desired.
8. Outline of afflicted leg.
9. Length of sound leg (1 to 13).



Price, with platform joint and abducting screw . . . \$35 00 to \$40 00
 " " " abducting and rotating screws 45 00 to 50 00
 " of cylindrical spring box extra 5 00



7866.* PLAIN "HOSPITAL" LONG HIP SPLINT.

This appliance has been designed for the use of hospital and dispensary patients who cannot afford to pay the cost of a better apparatus. To cheapen its production we do not nickel plate the metal parts but finish them in black, and use plain leather for the paddings. The long side bar is made in two pieces, the top bar sliding into the lower one through a loop, and being held in place by two screws.

To make extension the screws are taken off, then the lower portion of the splint moved downward and the screws re-inserted.

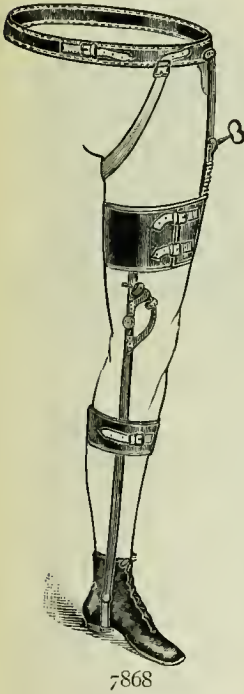
The splint can be made several inches longer than patient's limb, as the case may require it. It is applied in the same manner as the Sayre's long hip splint.

Measurements required, same as for No. 7864.

Price, according to size \$12 00 to \$18 00

Orthopedic Apparatus. +

7868.* J. C. HUTCHISON'S HIP-JOINT APPARATUS.



This apparatus differs from the Sayre's long hip splint in that it is fastened to a shoe, and therefore needs no adhesive strips. Two rods of steel extend from the foot to the upper third of the thigh and are secured to the leg with calf and thigh bands. The outside rod, longer than the other one, is provided with a ratchet and key and slides in a steel tube which is hinged by a ball-and-socket joint to a pelvic band. To this pelvic band is attached a perineal strap for counter-extension. Extension is made by working the splint with a key. The apparatus is provided with joints for the ankle and knee; the latter one is adjustable to any degree of flexion and extension, and may be fixed at any point or its motion limited, by an arrangement of a screw and two nuts.

Measurements and outlines required, as per diagrams and directions on pages 543, 544 and 545:

1. Patient's name (or sex).
2. Patient's age and weight.
3. General appearance.
4. Right or left limb.
5. Length from sole of foot to ankle-joint (I to 2).
6. Length from sole of foot to knee-joint (I to 7).
7. Length from sole of foot to perineum (I to II).
8. Length from sole of foot to above trochanter major (I to I3).
9. Circumference at calf (5).
10. Circumference at garter (6).
11. Circumference at knee (7).
12. Circumference above knee (8).
13. Circumference at middle of thigh (9).
14. Circumference of body above trochanter major (I3).
15. Outline of limb from iliac crest to sole of foot and up to the perineum (fig. 8).
16. Outline of pelvis above trochanter major (fig. 3).
17. Send well-fitting shoe to lace.

Price of apparatus \$32 00 to \$45 00

7870.* APPARATUS FOR DISLOCATION OF THE HIP-JOINT, COXITIS, UN-UNITED FRACTURE OR RESECTION OF THE FEMUR, AND PARALYSIS OF THE LEG. (DESIGNED BY HESSING.)

We illustrate herewith a brace as devised by Hessing for use in cases of total paralysis of the leg and thigh, or for fracture at any portion of the extremity. The foot, leg and thigh sections have been shown and described in figs. 7790 and 7844; the upper section is constructed in like manner and embodies an adoption of the principle of artificial muscles.

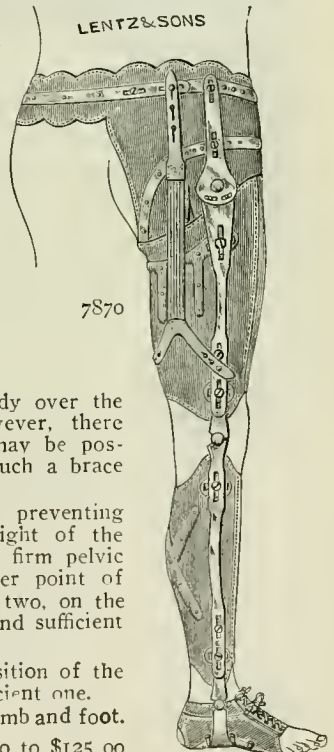
The most hopeless and helpless condition that falls to the lot of the orthopedist and mechanic to treat is that of total paralysis of the muscles of the limb and pelvis. The maintenance of the weight of the body over the functionless extremity is most difficult. Where, however, there remains some slight muscle power about the hip, it may be possible to furnish sufficient reinforcement by means of such a brace as Hessing's to enable the patient to walk.

The difficulty experienced in these cases is in preventing flexion of the thigh upon the abdomen when the weight of the body is placed upon it. To accomplish this purpose, a firm pelvic band of steel and moulded leather furnishes the upper point of fixation, the thigh band the lower point, between these two, on the posterior aspect, a heavy rubber strap being interposed and sufficient tension applied to provide against flexion.

Each section is made adjustable to changes in position of the parts and the entire apparatus is a most finished and efficient one.

When ordering, send plaster of Paris cast of pelvis, limb and foot.

Price from \$90 00 to \$125 00



Orthopedic Apparatus.

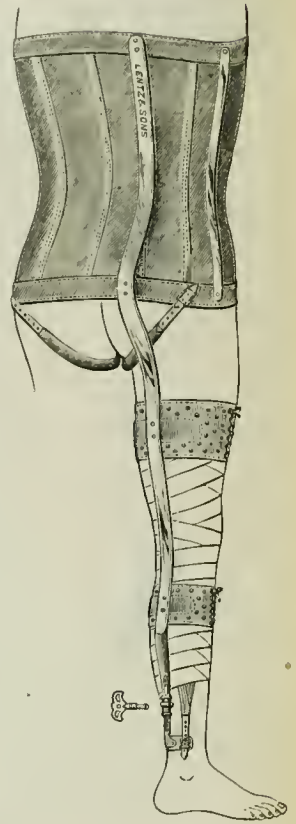
7872.* DR. JAMES K. YOUNG'S FIXATION TRACTION HIP-SPLINT.

Consists of a body or corset portion made of leather or canvas, and broad thigh and calf bands of enameled leather, the whole brace reënforced with a posterior steel bar passing down the back, the leg and the calf. This bar terminates in an extension ratchet, to which are attached extension bands with two buckles. Two perineal straps are used for counter-extension.

This apparatus gives both fixation and traction, and is applied and attached to the limb by means of adhesive straps fastened to the leg and thigh.

When ordering, send a plaster of Paris cast of affected leg and body from the ankle to the lower borders of the scapulæ.

Price according to size from \$40 00 to \$50 00



7872

7874.* DR. JAMES K. YOUNG'S SPLINT FOR HIP-JOINT DISEASE.

This splint is very serviceable for wear after the acute symptoms have disappeared entirely, and when a fixation splint is required for the protection of the patient against injury.

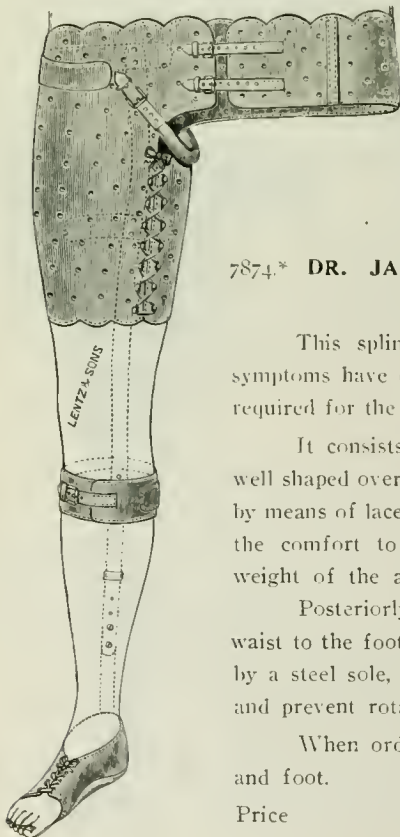
It consists chiefly of a hard leather pelvic and thigh piece, well shaped over a plaster of Paris cast, and firmly held to the body by means of laces and buckles. It is perforated in order to increase the comfort to the wearer and to reduce, though slightly, the weight of the appliance.

Posteriorly attached is a steel bar which extends from the waist to the foot. A leather calf band and a foot piece reënforced by a steel sole, neatly fitted to the shoe, support the leg and foot and prevent rotation.

When ordering, send a plaster of Paris cast of pelvis, limb and foot.

Price . . . from \$38 00 to \$55 00

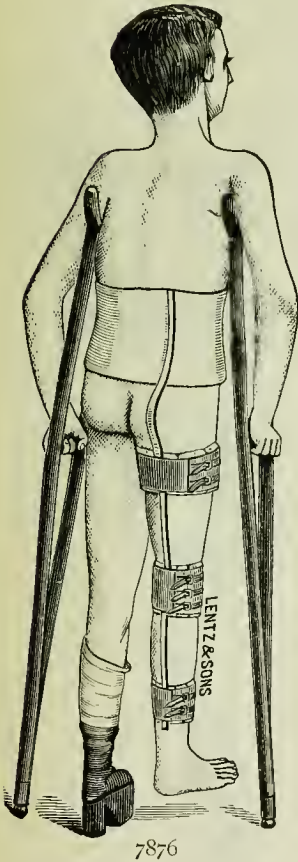
See Information and Terms on page 542.



7874

Orthopedic Apparatus. ±

7876.* AGNEW'S MODIFICATION OF THOMAS' HIP SPLINT.



7876

This cut represents the posterior splint or apparatus for the treatment of all stages of hip disease (coxalgia). The upper or pelvic portion is made of leather, formed in the same manner as the spinal leather jacket from a plaster cast. To this is attached the posterior bar of steel, covered with leather and extending down over the buttock, fitting closely against the leg to just above the ankle. The pelvic part is provided with hooks to lace, and there is a band around the thigh, one around directly over the knee, and one above the ankle. When this apparatus is firmly attached to the body and leg, there is no possibility of motion at the hip-joint in any position the patient may place himself. A shoe with a steel or cork elevation $2\frac{1}{2}$ to $3\frac{1}{2}$ inches high is fitted to the well foot and a pair of crutches furnished.

In ordering this splint a plaster of paris jacket should be made extending from above trochanter major to half way to axillæ; in cases where the spine is affected it may reach up somewhat higher.

Before the jacket is cut off, a mould should be taken on the posterior part of leg and body, from above ankle over the buttock up to the top of the plaster jacket.

Trace the outline of this mould on a sheet of paper marking thereon the points above ankle, middle of knee, upper third of thigh and top of plaster jacket.

(For making mould use a strip of sheet lead about $\frac{1}{2}$ inch thick and $\frac{1}{2}$ inch wide, or a piece of $\frac{1}{4}$ inch lead pipe hammered flat, or a piece of pliable wire about 3-16 inch thick. If inconvenient to procure, we shall be pleased to forward a suitable lead strip).

Measurements and outline required as per diagrams on pages 543 and 544.

1. Patient's name (or sex).
2. " age.
3. General appearance.
4. Right or left leg.
5. Cork shoe or steel elevation.
6. Circumference above ankle (3).
7. " at knee joint (7).
8. " " middle of thigh (9).
9. " " upper third of thigh (10).
10. Plaster of paris jacket as directed above.

11. Outline from above ankle over buttock to top of plaster jacket as directed above.
12. Send a well fitting shoe for well foot if steel elevation is desired, or measurements as per directions on page 543.

Price of splint with cork shoe and crutches . . . \$35 00 to \$45 00
 " " " " steel elevation and crutches . . . 30 00 " 40 00

7878.* THOMAS' POSTERIOR HIP SPLINT.

This splint is in most respects identical with No. 7876, having the same posterior bar, with bands above ankle, directly over the knee and below perineum. At the top however, it is provided with two steel bands, well padded, one a trifle below the upper edge of the pelvis, the other about two inches below axillæ.

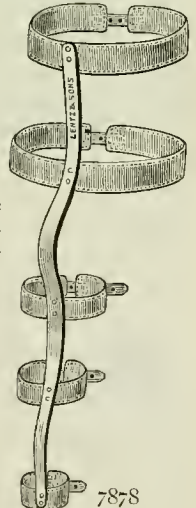
It is preferable for such cases where no curvature of the spine exists, but where, nevertheless, fixation of the hip joint is essential.

This appliance is less expensive than the Agnew's and can be constructed in less time than the one with a leather jacket.

A shoe with steel or cork elevation is worn on the well foot, and a pair of crutches used.

Measurements and outlines required, same as for No. 7880.

Price, according to size \$12 00 to \$18 00
 " with steel elevation and crutches 10 00 25 00



7878

Orthopedic Apparatus. ±

7880.* POSTERIOR HIP SPLINT WITH LATERAL ABDUCTION BAR.

This apparatus is very similar to the Thomas' Posterior Hip Splint, from which it differs mainly in these points: that it is provided with a lateral abduction bar, and that it extends below the foot.

To the lower end of the posterior bar a foot-piece is attached which should extend below the foot far enough to make the leg brace equal in length to the sound leg with the height of the cork or steel elevation added. The foot-piece is so constructed that it can be shortened or lengthened as the case may require.

At the hip joint an abduction bar is attached to the pelvic band, extending and secured to the thigh band, which latter is not riveted to the posterior bar, but works independent from it in connection with the abduction bar. By turning the abduction screw toward the pelvic band, traction is made on the head of the femur, drawing it out of the socket and therefore avoiding any undue pressure at the inflamed joint when the weight of the body is borne on the splint.

The patient will rest on the strong perineal strap which acts also as counter-extension.

Measurements and outlines required, as per diagrams on pages 543 and 544:

1. Patient's name (or sex).
2. " age.
3. General appearance.
4. Right or left leg.
5. Cork shoe or steel elevation.
6. Circumference above ankle (3).
7. " at knee joint (7).
8. " middle of thigh (9).
9. " upper third of thigh (10).
10. " below iliac crest (15).
11. " axillæ (18).
12. Outline over back, two inches below iliac crest.
13. Outline over chest, two inches below axillæ.
14. Outline from above ankle over buttock to a line about two inches below axillæ, marking thereon the points: above ankle, middle of knee, below perineum, two inches below iliac crest, and two inches below line of axillæ.

15. Send a well fitting shoe for well foot if steel elevation is desired, or measurements as per directions on page 543.

(For making outlines use a strip of sheet lead about 1/8 inch thick and 1/2 inch wide, or a piece of 1/4 inch lead pipe hammered flat, or a piece of pliable wire about 3-16 inch thick. If inconvenient to procure, we shall be pleased to forward suitable lead strip).

Price, with cork elevation shoe and crutches \$40 00 to \$50 00
 " " steel elevation (if shoe is furnished) and crutches 36 00 " 45 00



7880



7882

7882.* SAYRE'S NIGHT EXTENSION APPARATUS.

Employed for extension in bed to continue the treatment given during the day by a hip splint. It is a firmly made jean anklet, lacing over the instep with a stout leather tongue underneath. Secured at its sides are buckles into which are fastened the tabs holding in buttonholes the wooden cross-piece.

Measurements required as per diagram on page 543.

- Circumference at instep (b).
- " over heel (c).
- " at ankle (d).
- " above ankle (e).

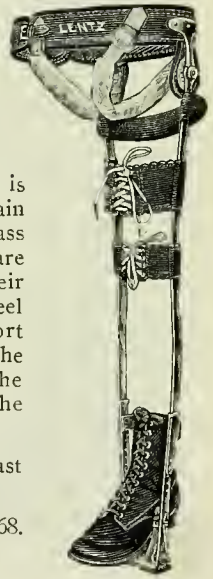
Price \$3 00

See Information and Terms on page 542.

Orthopedic Apparatus. ±

7784.* DR. G. G. DAVIS' COXALGIA APPARATUS.

Two lateral steel bars extend the entire length of the leg and receive the weight of the body at a cross bar under the foot. The inner bar has at its upper end a soft padded semi-circular ring which passes posteriorly around the thigh and connects with the outer bar below the trochanter joint. The outer bar reaches to below the crest of ilium and has an adjustable plate at the trochanter joint to regulate the motion of the joint. A well shaped steel girdle encircles two-thirds of the pelvis and is provided with two perineal straps. Two wide leather bands retain the limb in place; they are fastened to the lateral bars, and pass anteriorly over the middle of the thigh and the knee. The bars are adjustable at the lower portion of the apparatus, and to add to their strength are kept in their relative position by a semi-circular steel band. The cross bar or walking surface is leather soled. A short distance above the same is a revolving axis slotted to receive the extension straps which are buckled to the shoe of the patient. The axis can be manipulated by a key and furnishes the extension of the limb, the counter extension being furnished by the tuber ischii.



7884.

The shoe on the sound foot should have an elevation of at least 2½ inches. Crutches are used in conjunction with the apparatus.

Measurements and outlines required, same as for No. 7868. Send well-fitting shoes to lace.

Price from \$25 00 to \$40 00

7886.* DR. JAMES K. YOUNG'S CONVALESCENT HIP-SPLINT.

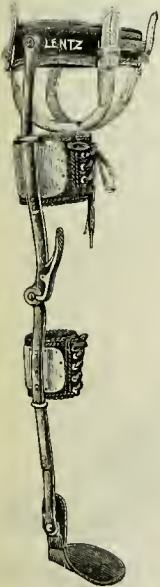
Devised for after-treatment of hip-joint disease, when support to the affected hip is still desired, and the joint becomes gradually accommodated to motion.

It consists of a strong lateral steel bar with joints at the ankle, at the knee and at the trochanter; the two latter ones may be provided with lock device. Further of a strong, well-padded pelvic girdle with two adjustable perineal straps which allow for traction if such is desired. Also of two leather cuffs, each about five inches wide, placed above and below the knee, and provided with eyelets to lace, their purpose being to hold the lateral steel bar close to the leg and afford it the necessary support. Finally, of a steel insole of half sole length, which is rigidly attached to the stirrup and is covered with leather.

The apparatus can be worn inside the shoe. The high-soled shoe on the sound limb is omitted.

Measurements and outlines required, same as for No. 7868. Send well-fitting shoe to lace.

Price from \$28 00 to \$40 00



7886

We would respectfully refer to the diagrams and directions for taking measurements and outlines. on pages 543, 544 and 545. These directions are so carefully stipulated and easy to follow. that the physician should experience no difficulty in furnishing us the correct data, guided by which we can always produce a properly fitting appliance. We shall be pleased to furnish on application, free of charge, a lead strip suitable for making outlines.

Orthopedic Apparatus.

7888.* WILLARD'S SPLINT FOR HIP DISEASE IN THE THIRD STAGE, AND FOR FRACTURE OF THE NECK OF THE FEMUR.

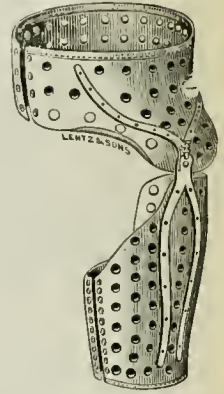
This splint is intended especially for hip disease cases that have passed the acute stage, but which need support and protection, and yet can safely allow flexion during sitting. It is also very helpful as a support following fracture of the neck of the femur.

It is provided with a mortise and bolt lock which gives fixation during locomotion, but can be unlocked while sitting. The splint consists of a broad pelvic portion of leather moulded over a cast of the body, attached by the joint described to another leather portion enveloping the thigh. It can be used either with or without crutches. It permits no motion except that of flexion, and that motion only when the joint is unlocked.

When ordering this appliance, make a plaster of Paris mould of body from hip joints to about four inches above iliac crests. Before taking off this plaster mould, obtain outline from top of mould over side of affected hip and leg to about two inches above knee. Mark thereon the top and lower ends, also point of hip joint.

Measurements and outline required, as per diagrams and direction on pages 543, 544 and 545:

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Patient's name (or sex). 2. Patient's age. 3. Right or left side 4. Length from knee to hip-joint (7 to 12). 5. Length from knee to perincum (7 to 11). | <ol style="list-style-type: none"> 6. Circumference above knee (8). 7. Circumference at middle of thigh (7). 8. Circumference below perineum (11). 9. Plaster of Paris mould, as directed. 10. Outline as directed (fig. 8). |
|--|---|
- Price, according to size \$35 00 to \$45 00



7888

7890.* CORK ELEVATION SHOE.

The cork elevation shoe has the advantage of being lighter, neater and less conspicuous than some other forms of elevation.

Instructions and Measurements Required.

To determine the height, have the patient (both feet bare) stand erect; place books under the short foot until the shoulders and pelvis are in horizontal lines; then measure the thickness of these books, which will be the height required for extension.

1. Patient's name (or sex).
2. Patient's age.
3. Measurements of foot, as per directions on page 543.
4. Height of elevation, as per directions above.
5. State whether for right or left foot.
6. Specify style of shoe wanted, to lace or to button.
7. State kind of leather desired.

Price of cork elevation shoe, according to size of shoe and height of cork:

For child, \$9 00; for youth, \$12 00; for adult, \$15 00 to \$18 00.



7890

7892.* STEEL ELEVATION.

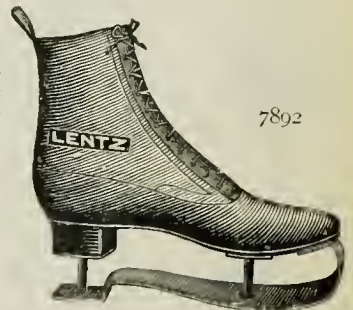
It is securely fastened under any plain shoe, and provided with a leather sole to avoid noise when walking and to prevent slipping. Cheaper than cork elevation, and can be transferred to another shoe.

Directions required:

1. Send a well-fitting shoe.
2. State height of elevation, as directed under No. 7890.

Price of steel elevation (if shoe is furnished):

For child, \$6 00; for youth, \$7 50; for adult, \$9 00.



7892

Orthopedic Apparatus. ±

7900.* LENTZ'S APPARATUS FOR AFTER-TREATMENT OF COMPOUND FRACTURE OF THE TIBIA AND FIBULA.

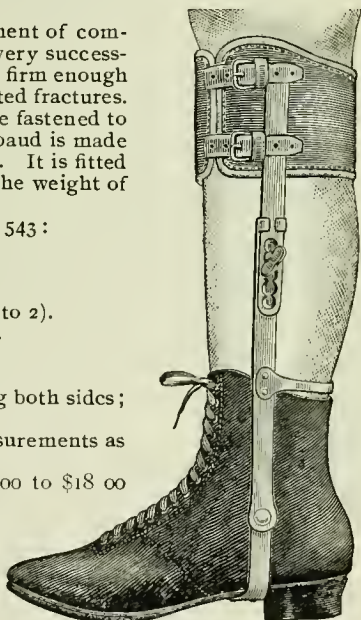
The cut represents an apparatus for after-treatment of compound fracture of the tibia and fibula; it has proved very successful in such cases where the newly formed union is not firm enough to bear the weight of the body, and in cases of un-united fractures.

It is constructed of two lateral bars which are fastened to the shoe and made to shorten or lengthen. The top band is made of sheet steel, covered with leather and well padded. It is fitted directly under the head of the tibia, thereby taking the weight of the body off the limb, and transferring it to the brace.

Measurements required as per diagram on page 543 :

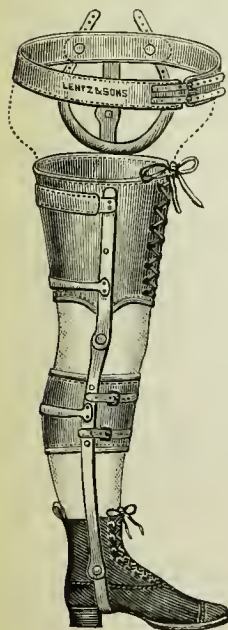
1. Patient's name (or sex).
2. " age and weight.
3. Right or left leg.
4. Length from sole of foot to ankle joint (1 to 2).
5. " " " " garter (1 to 6).
6. Circumference at calf (5).
7. " at garter (6).
8. Outline of leg from center of knee along both sides; see page 544.
9. Send a well fitting shoe to lace, or measurements as per directions on page 543.

Price of apparatus, according to size \$14 00 to \$18 00



7900

7902.* APPARATUS FOR AFTER-TREATMENT OF FRACTURE OF THE FEMUR, FOR THE SUPPORT OF FALSE JOINT, OR FOR UN-UNITED FRACTURE.



7902

This apparatus is devised for after-treatment of fracture where the newly formed union of the femur is not sufficiently strong to carry the weight of the body, or to guard against recurrence. It is of great value and benefit to patients who must attend to business before they are perfectly well, as it is an absolute safeguard and the patient need not fear a recurrence from a misstep.

It is of good service also in cases of un-united fractures or false joint of the femur, as it gives the thigh great firmness and allows the patient to walk without much difficulty.

The appliance is constructed of two lateral steel bars, the inner one reaching nearly to the perineum, while the outer one extends to one inch below iliac crest and is provided with a pelvic band; to this band is attached a perineal strap which carries the weight of the body. A broad, well padded band encircles the thigh, a narrower band the calf. Joints are provided at the hip, knee and ankle; or if the knee joint is desired to remain stiff when walking, we make there a lock-joint which can be readily unlocked by pressure of the hand outside the clothing.

Measurements required, as per diagram on page 543 :

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Patient's name (or sex). 2. " age and weight. 3. Right or left leg. 4. Seat of fracture or false joint. 5. Length from sole of foot to knee joint (1 to 7). 6. Length from sole of foot to perineum (1 to 11). 7. Length from sole of foot to trochanter major (1 to 12). | <ol style="list-style-type: none"> 8. Length from sole of foot to iliac crest (1 to 15). 9. Circumference at calf (5). 10. " at garter (6). 11. " at knee joint (7). 12. " above knee (8). 13. " at middle of thigh (9). 14. Circumference one inch below perineum (11). 15. Circumference one inch below iliac crest (15). |
|--|---|

16. Outline of limb from iliac crest to sole of foot and up to the perineum, as per directions for taking outlines on pages 544 and 545.

17. Send well fitting shoe to lace or measurements as per directions on page 543.

Price, according to size \$30 00 to \$43 00

Orthopedic Apparatus.

AMBULATORY PNEUMATIC SPLINT. ¶

For the Treatment of Fractures of the Hip, Thigh, Patella, Leg and Ankle, and of Cases of Non-Union, Knee-Joint or Hip-Joint Disease. Adjustable to Right or Left Limb.



7904

Fig. 7904 shows application of splint with posterior padded cardboard splint, for fractures of the ankle, leg and knee.

Fig. 7905 shows application of splint with hip-joint immobilizing attachment and padded belts, for fractures of the femur, neck of the femur, or for hip-joint disease. It also shows adhesive strap traction with posterior padded cardboard splint, and lock-joint feature which permits patient to recline at an angle, or to sit down.

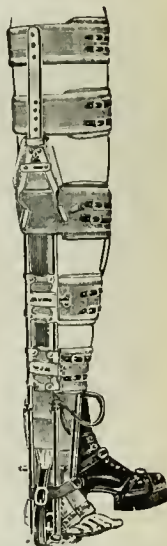
Directions for ordering:

1. State nature of fracture.
2. Adult or child. 3. Right or left limb.
4. Length from sole of foot to perineum (I to II).
5. Circumference of thigh at perineum (II).
6. Elevation shoe for male or female.

If for fracture of upper third or neck of femur or for hip-joint disease, state also:

7. Circumference at trochanter major (13).
8. Circumference under axillæ (18).
9. Length from sole of foot to axilla (I to 18).

With this information we will send splint adjusted ready to comfortably fit patient, with all parts fully tagged and application notes enclosed.



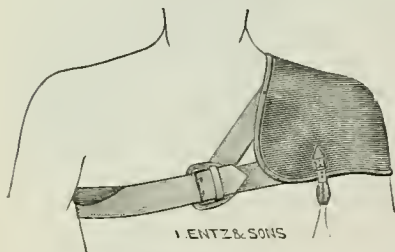
7905

- | | | |
|--------|---|---------|
| 7904.* | Ambulatory Pneumatic Splint, with elevation shoe, little key and pump | \$40 00 |
| 7905.* | Ambulatory Pneumatic Splint, with hip-joint immobilizing attachment, and with elevation shoe, little key and pump | 50 00 |
| | Compound Key, for lengthening or shortening four screws of splint together | 5 00 |
| | Case for complete outfit | 5 00 |

NOTE.—The apparatus is carried in stock and can be supplied immediately. Made in two sizes, adult and child.

It may be applied to either limb and adjusted to patients of various sizes.

7906.* APPARATUS FOR AFTER-TREATMENT OF FRACTURE AND FOR DISLOCATION OF THE SHOULDER JOINT.



Injuries to the shoulder, whether resulted in a fracture, or merely in a dislocation or sprain of slight character, are very frequently followed by painful conditions or other disturbances of the parts which necessitate a supporting or protecting apparatus until a cure can be effected. This should be capable of maintaining the parts in proper relationship, and yet should permit function within certain limits so as to promote the early restoration of normal use after removal of the support.

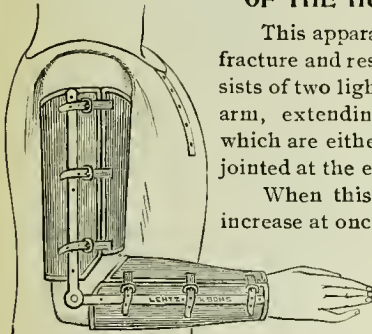
The appliance shown in illustration will be found a most useful and serviceable one in cases of dislocation of the scapular end of the clavicle, fracture of the acromion process, recurrent dislocation of the humerus, delayed union in fracture near the shoulder joint and in sprains of this part.

The moulded leather cap fits closely over the shoulder and covers the outer half of the clavicle, nearly all of the scapula and the upper end of the humerus, and is held securely in place by an axillary strap, well padded to protect the folds of the axilla, and by a girth about the chest. It can be worn tight or loose according to the demands of the case, but in either event it will not interfere to any great extent with the function of the shoulder.

An accurate plaster of Paris cast of the shoulder is required, and the following directions: 1. Patient's name (or sex). 2. Right or left shoulder. 3. Circumference of arm under axilla over shoulder-joint. 4. Circumference of chest under axillæ.
Price from \$12 00 to \$18 00

Orthopedic Apparatus. ±

7908.* SMITH'S APPARATUS FOR UN-UNITED FRACTURE OR RESECTION OF THE HUMERUS AND FOREARM.



7908

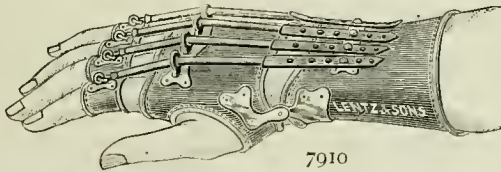
This apparatus furnishes substantial support in cases of un-united fracture and resection both of the forearm and the humerus. It consists of two light well padded sockets to receive the upper and forearm, extending from the axilla to the wrist. These two sockets which are either buckled or laced, are connected by two lateral bars jointed at the elbow.

When this apparatus is applied, the power of the hand will increase at once, as the muscles which are held firmly in the sockets cannot contract, and therefore the grasping power of the hand becomes almost normal. It also stops to a certain extent the rotary motion of the arm.

Measurements required :

1. Length from wrist to elbow joint.
2. " " elbow joint to axilla.
3. Circumference at wrist.
4. " " at middle of forearm.
5. " " below elbow.
6. " " at elbow.
7. " " above elbow.
8. " " at axilla.
9. State whether for right or left arm.
10. Give outline of arm, traced on a sheet of paper.

Price from \$20 00 to \$35 00



7910

7910.* HUDSON'S WRIST DROP APPARATUS.

This deformity consists, as its name implies, in a dropping of the hand, which is an undue flexion consequent upon paralysis of the extensor muscles of the forearm. The most common cause is lead poisoning. When the lead palsy, as it is sometimes called, has continued for some time, atrophy of the muscles is a common result, and in many cases it is very marked. The lead affects the entire system, diminishing the power of all the muscles of the body; a more common manifestation, however, is a paralysis of the extensor muscles of the hand and fingers when the patient becomes unable to extend them.

The apparatus illustrated has the functions to overcome the undue flexion and to restore the extensor muscles to normal condition. It consists of well shaped leather sockets to receive the lower part of the forearm and the hand as far as the knuckles. The two are connected by joints at the sides, and traction is made by means of springs between knuckles and wrist. In cases where the fingers also are involved, a socket is provided for each finger, and the springs extend to them from wrist over knuckles.

Directions required :

1. Plaster of paris mould from knuckles to middle of forearm.
2. Where dropping of the fingers is present, give also circumferences of the four fingers.
3. State whether contraction is very strong, moderately strong or slight.

Price from \$35 00 to \$50 00

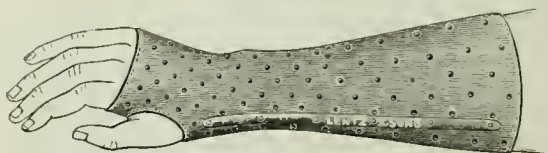
WRITER'S CRAMP APPARATUS.

Velpeau's	\$10 00
Mathieu's, for thumb and index finger	8 00
Charrière's	10 00
For index and middle fingers	7 00

Orthopedic Apparatus. +

7912.* LEATHER SOCKET APPARATUS FOR UN-UNITED FRACTURE OR FOR RESECTION OF THE FOREARM, OR FOR FRACTURE AT THE WRIST.

It consists of a carefully moulded perforated sole leather socket, lined with chamois skin, and reinforced with one or more light steel stays. It is adjustable by means of buckles or laces, thus giving a firm support to the affected parts.



7912

The apparatus can also be made with a joint at the wrist.

When ordering, send a plaster of Paris cast of the arm, from elbow to knuckles of hand.

Price, according to size \$8 00 to \$14 00
 Price, with wrist-joint 12 00 " 20 00

7914.* WRISTLET FOR AFTER-TREATMENT OF FRACTURE AT OR ABOUT THE WRIST-JOINT.

This appliance gives a most complete support to the affected parts. If immobility at the joint is desired, several non-corrosive steel stays are inserted to keep the wrist-joint entirely rigid.



7914

Made of sole leather, lined with chamois skin; laced at the palmside of the hand by eyelets or hooks.

Measurements required:

1. State whether for right or left arm.
2. Circumference of hand below knuckles.
3. Circumference at wrist-joint.
4. Circumference above wrist-joint.
5. Circumference at middle of arm.
6. Send plaster of Paris cast from about 6 inches above wrist-joint to below knuckles, also a carefully taken diagram of hand and forearm.

Price, according to size \$3 00 to \$4 50

7916.* WRISTLET FOR SUPPORT AT AND ABOVE THE WRIST-JOINT.

Made of calf leather, three inches wide, lined with kid leather, adjustable by three buckles. It is not extended to the metacarpal bones, yet gives a fair degree of support.

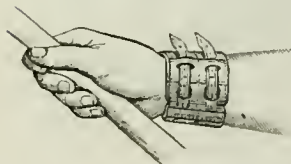


7916

Measurements required:

1. Circumference at wrist-joint.
2. Circumference two inches above wrist-joint.

Price \$0 75



7918

7918.* WRISTLET FOR SPRAINS AND BRUISES AT WRIST-JOINT;

With two buckles \$0 50

7920.* WRISTLET FOR SPRAINS AND BRUISES AT THE WRIST-JOINT;

With one buckle \$0 35

Measurements required, same as for No. 7916.

They also serve to strengthen and protect the wrist in athletic exercises.



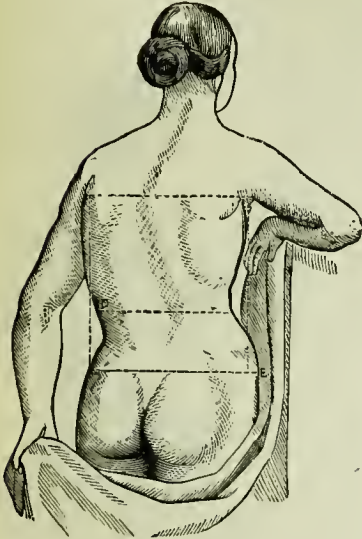
7920

See also Elastic Wristlets, pages 536 and 537

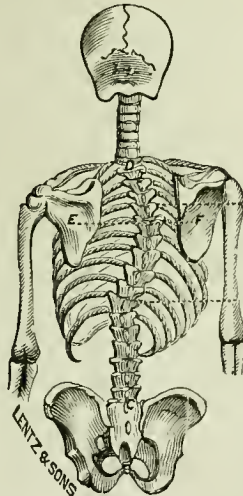
See Information and Terms on page 542.

Orthopedic Apparatus. ±

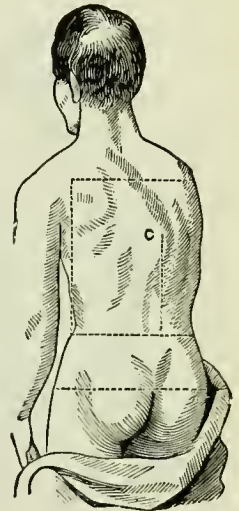
SPINAL BRACES.



Lateral Curvature.



Lateral Curvature.



Antero-Posterior Curvature,
(Pott's Disease).

Measurements and Outlines Required for Spinal Apparatus.

(as per diagrams on pages 543 and 544).

1. Patient's name (or sex).
2. " age.
3. General appearance of patient.
4. State whether the convexity of the curvature is to the right or left side.
5. Length from one inch above trochanter major, (13) to the first vertebra involved.
6. " " " " " " " " " " last " "
7. " " " " " " " " to the superior border of scapula (13 to 20).
8. " " " " " " " " to axilla, right side (13 to 18).
9. " " " " " " " " " left side (13 to 18).
10. Distance from the center of one scapula to the center of the other.
11. Circumference of pelvis one inch above trochanter major (13).
12. " of waist (16).
13. " of chest (over bust) (17).
14. " of chest under axillæ (18).
15. Outlines of each side of body, from axilla (with arms down) to one inch above trochanter major (18 to 13).
16. Outlines of each side of spinal column, from one inch above trochanter major to superior border of scapula (13 to 20).
17. Outline of pelvis from anterior superior spine on one side over back to anterior superior spine on opposite side, for pelvic band.
18. (For cases of antero-posterior curvature). Outline over curvature, from one inch above trochanter major to superior border of scapula (13 to 20).

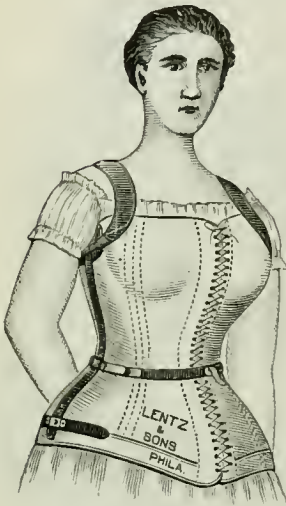
To obtain outlines, use a strip of sheet lead about $\frac{1}{8}$ inch thick and $\frac{1}{2}$ inch wide, or a piece of $\frac{1}{4}$ inch lead pipe, hammered flat, or a piece of pliable wire about $\frac{3}{16}$ inch thick. (If inconvenient to procure, we shall be pleased to forward a suitable lead strip).

With such a strip make the moulds over the parts as directed above; then trace them on a sheet of paper and mark by letter "X" that side of outline which is toward the body; also mark top and lower ends.

On page 544, figs. 1, 2, 3 and 7, we show how these outlines will appear approximately.

Orthopedic Apparatus. ±

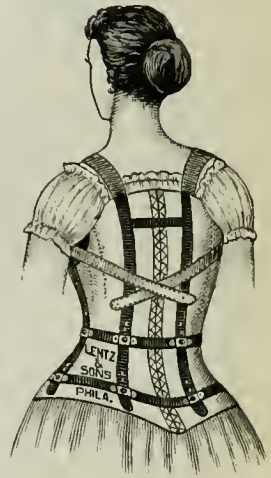
7930* DR. THOMAS G. MORTON'S SPINAL CORSET, FOR LATERAL OR ANTERO-POSTERIOR CURVATURE.



7930

These two illustrations represent the most successful form of corset for weak spine and the early stages of lateral curvature or posterior curvature (Pott's disease). The spinal corset takes the place of the leather and plaster jackets which have been employed more or less for many years, because it is more comfortable to wear and the material more flexible, giving the muscles more freedom to act.

It is made of the finest English sateen, with a steel frame added, all fitted accurately to the body. This frame consists of a steel baud embracing the body just above the trochanters, and four steel bars, one on either side of the body extending to the axillæ and one ou



7930

either side of the spinal column extending to the superior border of the scapulæ. A pair of shoulder straps reach from the axillæ over the shoulders and fasten in back. The four upright bars are connected by steel bands at the waist and at the inferior angle of the scapulæ, thus giving firmness to the entire frame. Rubber covered steel stays that will not rust, are inserted between the corset material; these stays are superior to whalebone as they will retain their shape.

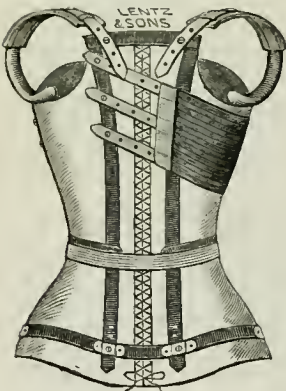
We have made this apparatus for a number of years for many hundred cases and it has in every instance given the best of satisfaction. One of the advantages it possesses is that certain changes can be made from time to time as improvement and growth will demand.

This apparatus is neat, light, comfortable, and at the same time effectual and strong.

Measurements and outlines required, see page 583.

Price, according to size from \$25 00 to \$32 00

7932* LENTZ'S IMPROVED SPINAL CORSET WITH ADJUSTABLE CRUTCHES, FOR LATERAL CURVATURE. (SCOLIOSIS).



7932

This illustrates the improved form of spinal corset for extreme cases of lateral curvature; its construction is practically the same as the above No. 7930, with the addition of well padded crutches, terminating in straps which pass over the shoulders and button to the upright bars in back.

The crutches are made adjustable to permit lengthening as growth or improvement may require.

A broad band of elastic webbing attached to one of the side bars passes over the protruding ribs and is attached to the upright bar on the opposite side of the spine, as shown in the cut; with this artificial muscle constant tension is exerted, rendering this improved form of spinal corset most efficient.

Measurements and outlines required, see page 583.

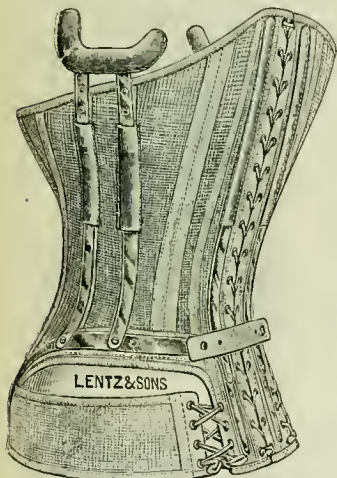
Price, according to size from \$30 00 to \$40 00

See Information and Terms on page 542.

Orthopedic Apparatus. +

7934 * SPINAL CORSET FOR LATERAL OR ANTERO-POSTERIOR CURVATURE OF THE SPINE. (Designed by Hessing.)

The chief feature of this spinal apparatus is a pair of fundamental hip pieces, made of malleable steel, which are carefully shaped to the pelvis over the crests of ilium, securing a firm foundation for a proper corrective force. Laterally attached to these hip steels are upright bars terminating in axillary crutches, while at back two flexible steel bars exercise a moderate supporting pressure to both sides along the spinal column.



7934

Into this steel frame is inserted a snugly fitted corset made of sateen, canvas or other strong material. The corset embraces the trunk firmly, lacing in front and back, and admitting of easy application or removal.

It forms a most excellent appliance for a variety of cases of spinal deviation; it is, however, usually applied in cases of a more aggravated state of deformity, where other braces would fail to answer the purpose. Its use in this country is of comparatively recent date, but it has given such excellent results in European countries, where it is applied in preference to other devices, that we have no doubt it will be greatly appreciated by physicians and patients alike to have this apparatus introduced here to the benefit of those suffering with spinal irregularities.

The most satisfactory guide for making a well-fitting apparatus is a plaster of Paris cast of the body, to be taken while patient is sufficiently suspended but still touches the floor with the toes. The cast should be taken as low as the trochanter major, and extended upward to the upper borders of the scapulæ. Before becoming entirely set, the jacket should be cut open

in front at the middle line. The plaster cast, carefully boxed, should be sent to us with such particulars as will aid us in producing a properly fitting apparatus.

Price \$40 00 to \$60 00

7936.* LENTZ'S IMPROVED SHOULDER BRACE.

For extreme cases of round shoulders and slight cases of weakness of the spine the shoulder brace herewith shown has proven very efficient, and we strongly recommend its use in all cases which the ordinary shoulder braces cannot correct but which are not developed enough to demand a more rigid spinal apparatus. The persistent use of this brace will in a majority of cases not only prevent the increase of the malposture, but correct that which already exists.

It is made of two upright steel springs and a horizontal steel spring which latter presses directly on the protruding scapulæ. The back is made broad and of strong, durable material. The lower portion is a wide abdominal band adjustable at sides. Broad straps pass over the shoulders and are buckled to the horizontal spring at axillæ. This construction insures a firm and beneficent support.

Measurements required, as per diagram on page 543:

1. Patient's name (or sex). 2. Patient's age.
3. Circumference of pelvis at middle of sacrum (14).
4. Circumference above iliac crest (15).
5. Circumference under axillæ (18).
6. Length from middle of sacrum to superior border of scapulæ (14 to 20).
7. Width of back from axilla to axilla (18).
8. Distance from superior border of scapula (20) over shoulder to arm pit (18).
9. Outlines of back at each side of spinal column from middle of sacrum to superior border of scapula (14 to 20); see page 544, fig. 2).



7936

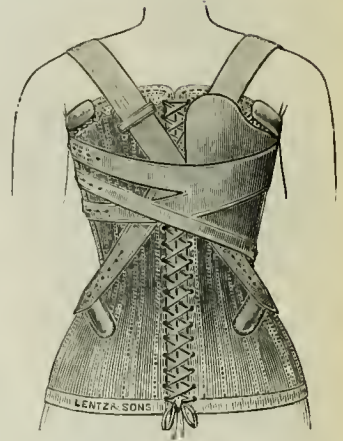
Price, according to size from \$8 00 to \$10 00
 For the various Shoulder Braces of Plain Construction, see pages 538 and 539.

Orthopedic Apparatus. +

7938.* **SPINAL CORSET FOR SCOLIOSIS.**
(French Model.)



7938



7938

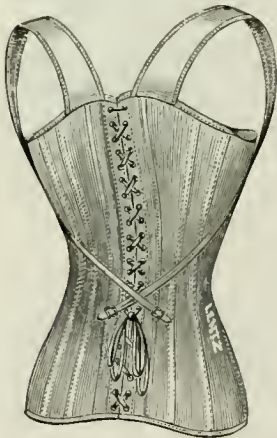
Constructed on the same principle as the Hessing Spinal Corset. The body is firmly supported by a snugly fitted corset which is reinforced with steel stays, and laced at front and back. Laterally attached are two crutches based on soft padded, well-shaped, metallic hip pieces, which form a substantial foundation for a proper axillary support.

These crutches, which are adjustable, terminate anteriorly in soft straps, made in part of elastic webbing, which press the shoulders backward and extend down the back to the opposite hip, where they are fastened to small studs.

A stiff leather pad, on one side securely fastened to the corset, gives due pressure upon the protruding scapula; over this pad passes an additional leather strap, which is adjusted to the opposite crutch bar; the purpose of this strap is to reinforce and regulate the pressure of the scoliosis pad.

Measurements and outlines required, see page 583.

Price from \$35 00 to \$50 00



7940

7940.* **SPINAL CORSET FOR WEAK SPINE AND FOR INCIPIENT LATERAL CURVATURE OF THE SPINE.**

This spinal brace is commonly used for weakness of the spine and irregular muscular contraction, also in the less aggravated cases of lateral curvature. It is a light and comfortable appliance made of thin corset material; for those troubled with excessive perspiration we make it of a perforated material.

To permit proper adjustment, it is provided with eyelets and is laced in front and back. The sides and back of the corset are well reinforced with hard rubber covered steel stays. Straps with partly inserted elastic webbing pass over the shoulders, pressing them gently and continuously backwards, and extend under axilla obliquely to the opposite hip, where they are fastened by means of buckles.

Measurements and outlines required, see page 583.

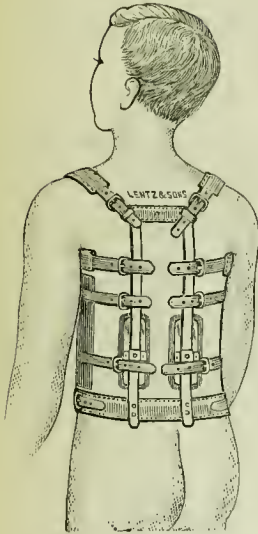
Price from \$18 00 to \$30 00

See Information and Terms on page 542.

Orthopedic Apparatus. ±

7942.* WASHBURN'S APPARATUS FOR POSTERIOR CURVATURE OF THE SPINE.

(POTT'S DISEASE).



7942

This brace consists of a well padded steel band passing around two-thirds of the pelvis just above the trochanters; two flat steel bars, parallel to each other and extending to the superior border of the scapulæ; and a cross bar connecting these two uprights at their upper ends. The upright bars are curved to the form of the spinal column yet not quite so much, so that when secured in position their elasticity will constantly operate to rectify the spinal curve; stout straps reach over the shoulders and fasten to the brace.

To make pressure against the projecting vertebrae two properly shaped pads are provided which slide upon the upright bars and are secured to them with screws.

The front part of the brace is a piece of twilled muslin or other strong material, covering the chest and abdomen. It is provided at various parts with straps which buckle to the back brace holding it firmly in position and making the whole apparatus very substantial.

Such parts as are in contact with the body are padded carefully.

Measurements and outlines required as per diagrams on pages 543 and 544.

1. Patient's name (or sex).
2. Patient's age.
3. General appearance of patient.
4. Length from one inch above trochanter major (13) to center of curvature.
5. Length from one inch above trochanter major to superior border of scapula (13 to 20).
6. Length from one inch above trochanter major to axilla (13 to 18).
7. Circumference of pelvis one inch above trochanter major (13).
8. Circumference of waist (16).
9. " of chest over bust (17).
10. " of chest under axillæ (18).
11. Outline of each side of the body, from axilla (with arms down) to one inch above trochanter major (18 to 13).
12. Outlines of each side of spinal column, from one inch above trochanter major to superior border of scapula (13 to 20).
13. Outline over curvature from one inch above trochanter major to superior border of scapula (13 to 20); mark thereon the center of curvature.
14. Outline of pelvis from anterior superior spine on one side over back to anterior superior spine on opposite side, for pelvic band.

Price, according to size from \$16 00 to \$25 00

7944.* APPARATUS FOR LATERAL OR ANTERO-POSTERIOR CURVATURE OF THE SPINE.

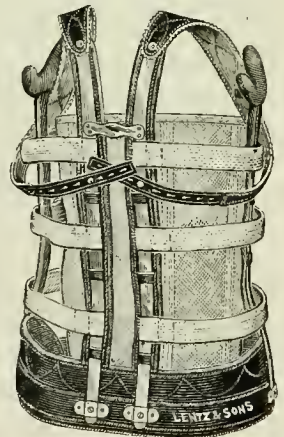
The apparatus illustrated is practically of the same construction as No. 7942, with the addition, however, of two axillary crutch bars attached to the pelvic band. Screw holes are provided at the ends of these bars permitting of adjustment of the soft padded crutches. For kyphosis at the upper dorsal and cervical region of the spine a head support may be attached as shown in fig. 7954. This head rest is arranged in such a manner that it can be easily removed without disrobing.

Measurements and outlines required, same as for No. 7942, with the addition of the following:

No. 15. Outline over curvature from one inch above trochanter major to occipital protuberance, marking thereon the exact total length, also the first and last vertebrae involved (13 to 22). See page 544, fig. 6.

No. 16. Outline of head around the chin and back of neck, two sections, stating also the exact circumference; (use a lead strip about ten inches long). See page 544, fig. 4.

Price, according to size, from \$22 00 to \$30 00; with head support, \$32 00 to \$40 00



7944

Orthopedic Apparatus. ±

7950.* TAYLOR'S MODIFIED APPARATUS FOR ANTERO-POSTERIOR CURVATURE OF THE SPINE.

(POTT'S DISEASE).

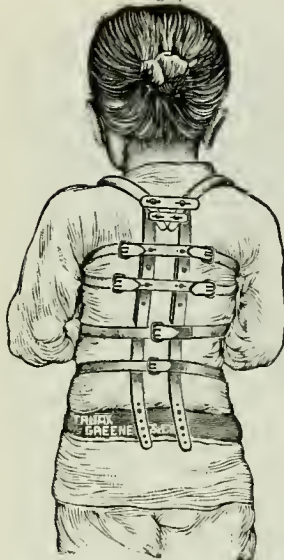
This apparatus is devised for cases of antero-posterior curvature of the spine and is a modification of one of the earlier forms of the Taylor's brace for this deformity.

To the upright bars at the back over the distance of the curvature are fastened with screws a pair of narrow plates which are provided with thick pads of hair or powdered cork, so that the brace may be the least uncomfortable to the patient. At the top of the two uprights two well padded, adjustable shoulder pieces are attached which fit close to the neck in order to make lateral motion impossible; they end in straps which pass from the front of the shoulder to the lower cross piece at the back.

At the pelvis we employ a broad, well padded band, encircling the body a little over half, and which receives the uprights.

The brace is held against the patient by an apron reaching from the flexures of the thigh to the level of the axillæ, covering the front of the body and fastening by straps to the pelvic band as well as to the upper cross pieces.

Measurements and outlines required, same as for No. 7942.



7950

Price from \$20 00 to \$28 00

7952.* TAYLOR'S MODIFIED SPINAL APPARATUS WITH CERVICAL OR WRY NECK ATTACHMENT.

Should the disease have developed in the upper dorsal or cervical region of the spine, the apparatus should be constructed with an attachment for sustaining the head. The effect and form of this attachment is that of a lever, acting backwards to raise the head and neck, as shown in cut.

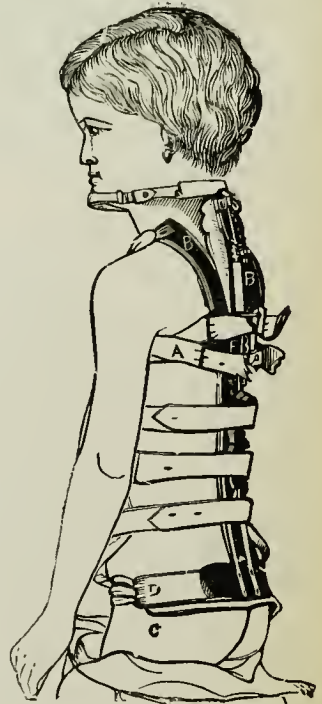
Measurements required same as for No. 7942; and the following in addition:

15. Outline of spinal column; make a mould of the spine from middle of sacrum to occipital protuberance, marking thereon center of curvature, vertebral prominence and occipital protuberance.

16. Outline of head, around the chin and back of neck, stating also the exact circumference. (Use a lead strip about 10 inches long.)

On page 544, figs. 6 and 4, we show how the outlines will appear approximately.

Price from \$28 00 to \$45 00



7952

See Information and Terms on page 542.

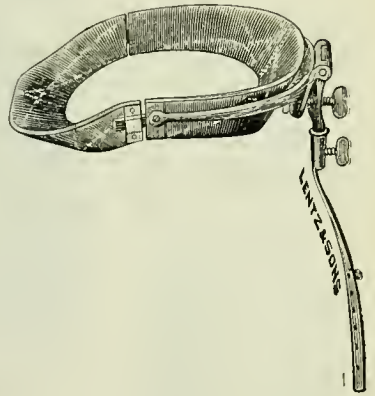
Orthopedic Apparatus. ±

7954.* APPARATUS FOR ANTERO-POSTERIOR CURVATURE OF THE SPINE, WITH IMPROVED HEAD REST.



7954

While the ordinary jury mast, with elastic straps, probably fulfills the important mechanical indications for treatment, it is, nevertheless, on some accounts, very objectionable. It is unsightly in appearance, like all supports that pass over the head, and never fails to fix the eyes of the curious on the



7955

already over-sensitive patient whenever he chances to appear in public highways. Mothers, too, usually find fault with it, because of attracting so much attention. For these reasons, among others, we devised this apparatus, which, while not extending over the head, will exert continuous elastic traction upon the diseased vertebræ, and permit of voluntary motion of the cervical vertebræ.

It consists of a well-padded metal collar, which is made in two parts, permitting easy removal and re-application, fitted accurately to the occiput and under the chin; this is hinged to a short stem, which is fitted into a socket at the upper end of the cervical piece; by this combination the head may have rotary motion if required or can be fixed by a set screw; and extension is made by turning the screw below the hinge, as shown very clearly in illustration No. 7954.

This head rest is attached to our Improved Spinal Corset No. 7932 in such a manner that it can be easily removed without disrobing, and the corset worn without it.

Measurements and outline required, same as given on page 583, with the following additions:

19. Outline over curvature from one inch above trochanter major to occipital protuberance, marking thereon the exact total length, also the first and last vertebræ involved (13 to 22). See pages 544 and 545, No. 6.

20. Outline of head around the chin and back of neck, two sections, stating also the exact circumference. (Use a lead strip about 10 inches long). See pages 544 and 545, No. 4.

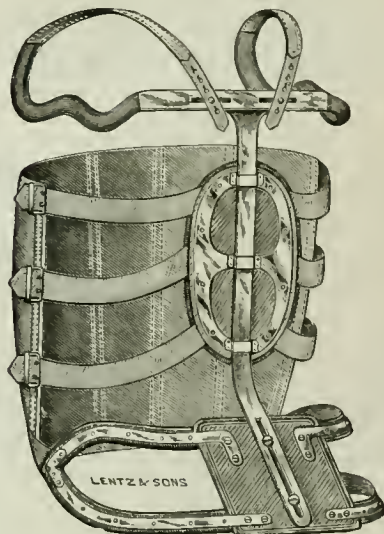
Price of Spinal Corset and Head Rest from \$45 00 to \$60 00

See Information and Terms on page 542.

NOTICE.

As numerous and various orthopedic apparatus are constantly brought forward and suggested in medical journals as well as in text books, it is quite impossible for us to show them all in our catalogue; we would, therefore, respectfully suggest that physicians, in ordering apparatus which we do not show in the catalogue, should state the name and date of the journal or other publication in which they are described or illustrated.

Orthopedic Apparatus. ±



7956

7956.* LENTZ'S SPINAL BRACE FOR ANTERIOR CURVATURE OF THE SPINE. (Lordosis.)

We illustrate herewith an improved apparatus for the support of the spine in cases in which there exists anterior curvature from weakness or relaxation of the muscles.

A double pelvic band forms the foundation and consists of well-padded bars half encircling the pelvis and adjusted anteriorly by straps and buckles. It is made specially wide in order to distribute the pressure, and so prevents trophic sores. A large and adjustable dorsal pad is provided; it supplies a generous base for counter pressure analogous to the one at the hips, and lessens the danger of pressure sores so frequently met with in these cases. A horizontal steel rod, which is also adjustable, crosses the scapulæ and terminates in crutches. The latter are padded softly and afford more efficient support than is obtained from the commonly used leather straps. The curves in the crutches fit the axillary folds, and will be found much more comfortable than the ordinary forms. A broad apron, attached by straps to the dorsal pad, firmly holds the chest and supports the abdomen. The back bar is made adjustable at its lower portion by means of a slot and set-screws, in order to meet the requirements of increased growth or correction of the deformity.

The ease of application and removal by the patient, once the appliance has been carefully and accurately fitted, strongly recommend it to the patient and to the attending physician.

When ordering this apparatus, a plaster of Paris cast of the trunk is preferable, reaching from the trochanter major to the upper borders of the scapulæ; or else give carefully taken measurements and outlines, as per diagrams on pages 543, 544 and 545:

1. Patient's name (or sex).
2. Patient's age.
3. Length from one inch above trochanter major to superior border of scapula (13-20).
4. Length from one inch above trochanter major to axilla (13-18).
5. Length from crest of ilium to axilla (15-18).
6. Circumference of body one inch above trochanter major (13).
7. Circumference of body at waist (16).
8. Circumference of body at chest, over bust (17).
9. Distance from the center of one scapula to the center of the other.
10. Outline of spine from sacro-lumbar articulation to vertebra prominens.
11. Outline of pelvis from one side of superior spine over back to the other side (fig. 3).

Price

. from \$35 00 to \$50 00

See Information and Terms on page 542.

Orthopedic Apparatus. ±

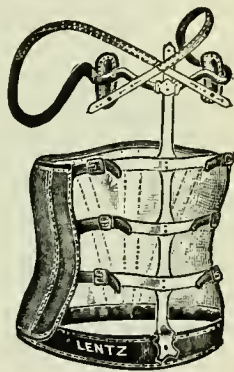
7958.* JOHNSTON'S SPINAL SUPPORT FOR ANTERIOR CURVATURE OF THE SPINE.

(LORDOSIS).



7958

For this deformity a quite simple but very effective brace or spinal assistant is made which can be applied or removed readily, thereby overcoming the objections of the plaster jacket. The illustration gives a fair idea of the brace. Attached to a well padded pelvic band is an upright steel bar to which are fastened by an adjustable arm, pads for the scapulæ. This adjustable arm terminates in well padded crutch horns fitted accurately under the axillæ to relieve the weight of the body; straps pass over the shoulders, continuing diagonally across the back, and buttoning on the scapular pad of that side. On the upright steel bar three or more well tempered steel springs are fastened. These springs are so shaped that they act as strong levers. The broad abdominal band is made of sateen jean, interlaced with some elastic material and buckles by straps to



7958

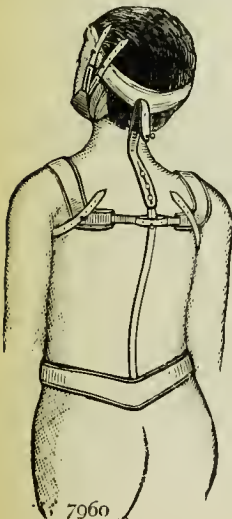
these springs; not only affording support, but producing a certain amount of pressure to the abdominal muscles, and by so doing reducing the enlarged or pouched appearance that is so well marked in this trouble. This brace can be adjusted so readily that it does not interfere in the least with any other treatment indicated in cases of this kind.

Measurements and outlines required as per diagrams on pages 543 and 544.

1. Patient's name (or sex).
2. " agc.
3. General appearance of patient.
4. Length from trochanter major to superior border of scapula (12 to 20).
6. " " " " at each side to axilla (12 to 18).
7. Circumference of pelvis one inch above trochanter major (13).
8. " " waist (16).
9. " " chest over bust (17).
10. Outline of spine from trochanter major to superior border of scapula (12 to 20).
11. Outline from one side of superior spine of pelvis over back to the other side, for pelvic band.

Price according to size \$24 00 to \$30 00

7960.* MARKOE'S APPARATUS FOR TORTICOLLIS.



7960

This apparatus is made with a well padded pelvic band to which a steel bar is attached extending along the spine to the superior border of the scapula; to this a short adjustable stem is attached extending to the occiput where a well padded metal band is fastened, reaching almost from eye to eye over back of skull, terminating in a leather band over the forehead, and provided with two buttons on each side to receive the chin piece. To the upright bar is further attached a cross piece which passes over the shoulders from middle of scapulæ and terminates in leather straps which pass under the axillæ and button to the cross piece. A ball-and-socket joint allows movements of the head into the proper position. The short stem projects backward from the back of the head band, terminating in a ball, which is grasped by a clamp at the end of the upright bar passing up along the spine. The pressure of this clamp is regulated by a thumb screw which is tightened after the head has been brought into a proper position.

Measurements and outlines required same as for No. 7964.

Price \$30 00 to \$40 00

See Information and Terms on page 542.

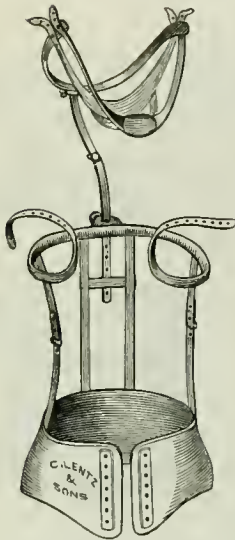
Orthopedic Apparatus. ±

7964.* **APPARATUS FOR WRY NECK (TORTICOLLIS).**

This is another form of apparatus for the support of the head and spine, it is very light, easily applied and very effective.

It consists of a broad pelvic band, which reaches from above the trochanter major to the waist. Four upright bars are attached to the steel part of the pelvic band, two along the spine, which receive the head support, and one on either side, to which the crutch horns are fastened; these crutch horns are also connected to the back bars, they are well padded and provided with straps which pass over the shoulders and button to the back part of the same.

The head support is arranged in such a manner so as to give the head any desired position, either rotary or upward and downward movement. The rotary movement is produced by a pivot and socket, which can be fixed at any position by a set screw; the upward and downward movements are regulated by a thumb screw where the head band is connected by a hinge to the back bar.



7964



7965

The head and chin straps are connected by a strap as shown in illustration (No. 7965) to prevent them from slipping.

Measurements and outlines required, as per diagrams on pages 543 and 544 :

1. Patient's name (or sex).
2. " age.
3. General appearance of patient.
4. Length from one inch above trochanter major to middle of scapula (13 to 19).
5. " " " " " " " " to occipital protuberance (13 to 22).
6. " " " " " " " " to axilla (13 to 18).
7. " " center of the spine passing under axilla over the shoulder to center of spine.
8. Circumference of body one inch above trochanter major (13).
9. " " at waist (15).
10. " " under axillæ (18).
11. Distance from above ear around chin to above ear on the opposite side.
12. Outline of spinal column from one inch above trochanter major to occiput (13 to 22), marking thereon the vertebral prominence and occiput.
13. Outline of head from above ear around back of head to the opposite side.
14. Outline of body under axillæ over back; $\frac{2}{3}$ of circumference.
15. Outline of pelvis from anterior superior spine on one side over back to anterior superior spine on opposite side, for pelvic band.

To obtain outlines use a strip of sheet lead about $\frac{1}{8}$ inch thick and $\frac{1}{2}$ inch wide, or a piece of $\frac{1}{4}$ inch lead pipe, hammered flat, or a piece of pliable wire about $\frac{1}{16}$ inch thick. (If inconvenient to procure, we shall be pleased to furnish a suitable lead strip.)

With such a strip make the moulds over the parts as directed above; then trace them on a sheet of paper. On page 544, figs. 6 and 3, we show how these outlines will appear approximately.

Price of apparatus from \$32 00 to \$45 00

See Information and Terms on page 542.

Orthopedic Apparatus. +

7966.* SAYRE'S JURY MAST.

This consists of two pieces of malleable steel, bent to fit the curve of the back. To the lower portion are attached three or more roughened tin strips, long enough to go nearly around the body. From two cross pieces of the upper extremity springs a central shaft, carried in a curve over the head and capable of being elongated at will. To this is attached at its upper extremity a swivel cross bar with hooks, from which depend straps supporting a head and chin collar.

Application.—The patient having been encased, in the usual manner, in a few thicknesses of plaster roller, the Jury Mast Apparatus is put over this, care being taken that the steel strips are bent so as to conform to the surface of the plaster, and that the shaft over the head be kept in the same line with the spinous processes. The perforated tins are carried around the body, their ends, however, not being allowed to meet. The apparatus having been carefully adjusted, fresh layers of plaster bandage are now applied in order to hold the instrument firmly in its place.

Measurements and outline required:

1. Outline of spinal column. Lay a thin and flexible strip of lead along the spine, moulding it exactly to the spine and all its sinuosities from the top of head to the middle of sacrum. With this pattern trace carefully the shape of the spine and head on a sheet of paper, marking the points opposite the upper and lower borders of the scapulae and the crest of the ilium, also the affected parts of the spine. (On page 544, fig. 4, we show how this outline will appear approximately.)

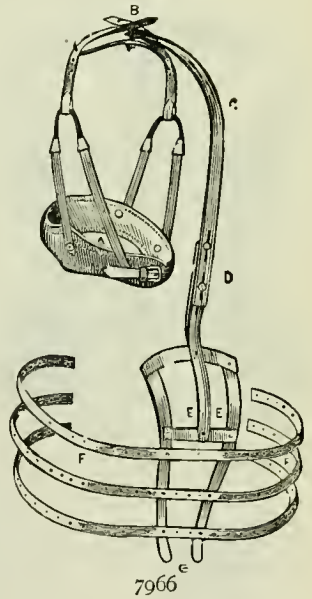
2. Circumference of head, under the chin and over top of head.

3. Circumference of head, around the chin and back of the neck. In taking this measure care should be exercised that the tape encircles these parts in an even horizontal line.

4. Circumference of body over chest.

Price, without plaster jacket

\$13 50



7968.* LENTZ'S TORTICOLLIS HEAD-REST.



7968.

This apparatus for the treatment of malposition of the head consists of two narrow encasements, an upper or cervico-cephalic, and a lower or cervico-truncal segment. These encasements are made of pliable, non-corrosive metal strips, accurately shaped to the respective parts of the head and trunk and are padded comfortably. The upper one is provided anteriorly with a hinge to allow easy application or removal, and has posteriorly a stud and leather strap for adjustment. The lower one is thoroughly adjustable. Narrow vertical stays unite the two segments and give the apparatus the supporting firmness.

The whole is neatly covered with thin, black silk material, rendering this appliance a light and non-conspicuous device, which is readily preferred to the various other styles that are manufactured.

When ordering, send plaster of Paris cast of neck, with chin and shoulder parts.

Price from \$15 00 to \$25 00

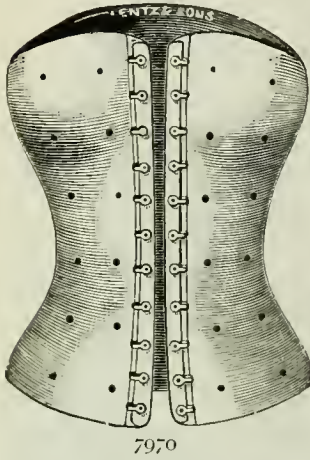
See Information and Terms on page 542.

PLEASE DO NOT CUT OR MUTILATE THIS BOOK.

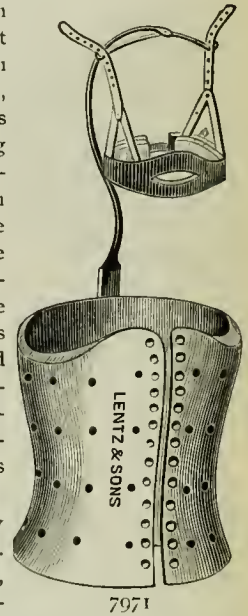
In ordering, state number of apparatus and give directions required, and we can execute orders satisfactorily. Cutting out illustrations does not aid us any, but destroys the page for future reference.

Orthopedic Apparatus. ±

7070.* PERFORATED HARDENED SOLE LEATHER JACKET FOR ANTERIOR, POSTERIOR OR LATERAL CURVATURE OF THE SPINE.



In ordering a leather jacket an accurate mould of the body must be taken, extending from one inch above trochanter major to axillae, by means of the plaster-paris jacket, the patient of course being suspended. Before becoming entirely set, the jacket is cut open in front, in the middle line; the mould thus obtained should be sent to us. We are able to reproduce it exactly of hardened sole leather. The leather jacket is provided with eyelet hooks and lacing cords in front, so that if desirable the apparatus may be removed at night. It is also perforated, making it perfectly porous and not heating to the body.



7071
Hardened Sole Leather Jacket with Jury Mast attached.



7072
Leather Jacket and Jury Mast applied.

To this apparatus Dr. Sayre's Jury Mast may be added, as shown in No. 7071. This supports the head in an erect position, and the spine is relieved of superincumbent weight by a rod reaching above the back of the head, and from which supporting bands extend beneath both occiput and lower jaw. The weight of the leather jacket is about half of that of the plaster-paris jacket; in some cases a fenestra is cut in the jacket to allow for the prominences of the anterior superior spinous processes of the ilium. Narrow strips of steel are placed at the back and sides of the jacket.

When ordering a Jury Mast with the above jacket, in addition to the mould the following measurements and outline are required:

1. Outline over spine from the lower part of jacket to top of head, marking thereon the top of jacket. *Make this outline before removing plaster jacket.* See page 544, fig. 5, for outline as it will appear approximately.
2. Circumference of head, under chin and over top of head.
3. Circumference of head around chin and back of neck.

Price of Sole Leather Jacket \$35 00 to \$45 00
With Jury Mast attached, 45 00 to 60 00

7074. Porous Felt Jacket. In ordering this jacket a plaster of paris mould is required same as for leather jacket.

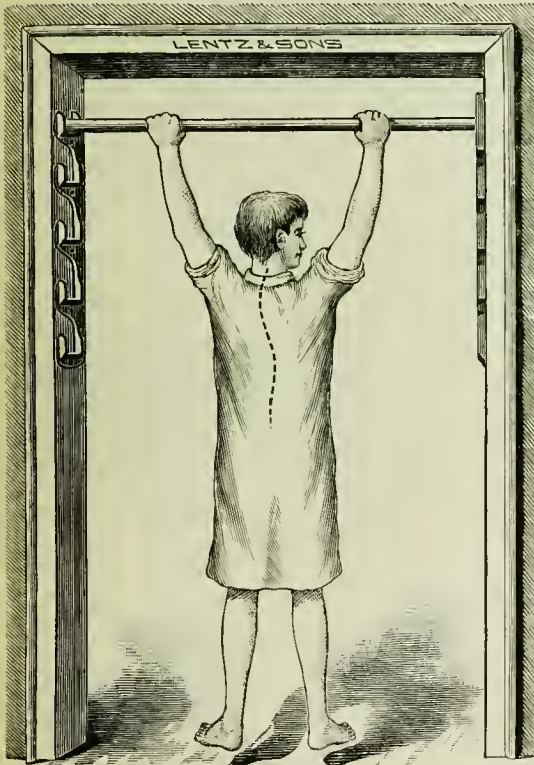
Price of Felt Jacket \$25 00 to \$30 00
With Jury Mast attached, 35 00 to 40 00

7076. Trimming Plaster-Paris Jacket and sewing on leather facing and lacing hooks . \$3 50
7078. Lining Jacket with Stockinette additional 1 50

See Information and Terms on page 542.

Orthopedic Apparatus. ±

7980.* HORIZONTAL BAR FOR GYMNASTIC EXERCISE.



7980

SAYRE'S APPARATUS FOR THE GYMNASTIC EXERCISING OF PATIENTS SUFFERING FROM POTT'S DISEASE OR LATERAL CURVATURE OF THE SPINE.

Another mode of extension is shown in accompanying cut for the above named purposes, the patient pulling himself up by means of a rope and compound pulleys, the former having egg-shaped blocks, secured by the rope being tied into a knot under each, and at regular intervals; these blocks enable the patient to draw himself up with ease. A padded chin-piece looped into an iron rod, completes the apparatus. No other person should pull the ropes in this exercise, and the patient should always hold both hands elevated, one nearly opposite the forehead and the other above. This contrivance can be hung up in any part of the house.

State whether for child or adult.

7982.	Apparatus without Tripod	\$ 8 00
7983.*	" complete with Tripod	17 00
7984.	" " with Disjointed Tri- pod, put up in canvas pouch	20 00
7985.	Tripod	9 00
7986.	Disjointed Tripod	12 00

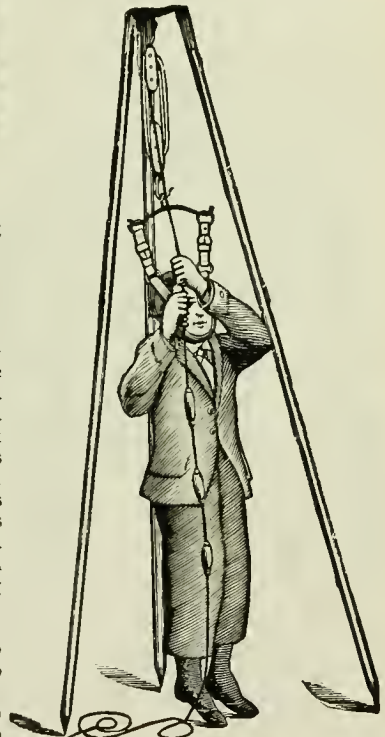
Gymnastic exercise in connection with appropriate spinal apparatus is a well recognized necessity, and it is the exercise on the horizontal bar which has especially a tendency to develop the muscles of the shoulders and back.

To induce children to take such exercise, an apparatus should be uncomplicated lest it might create aversion, and it should become a matter of amusement rather than compulsion.

The amount and character of the exercise should however be under the guidance of the attending physician.

The apparatus may be fastened to any door-frame in the manner shown in illustration. The simplicity of its construction is at once apparent, and it can be used by either child or adult. The bar is made of hard wood, long enough to suit any ordinary door-frame.

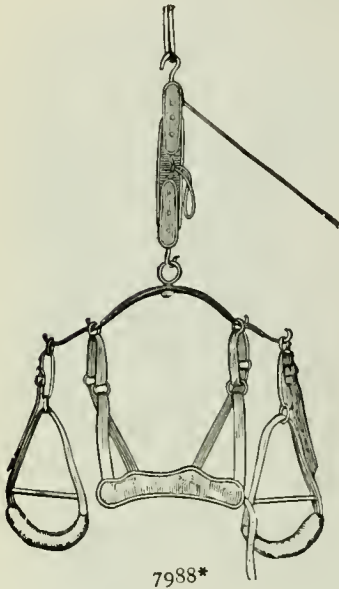
Price, complete \$3 00



7983

Orthopedic Apparatus. ±

7988.* DR. L. A. SAYRE'S APPARATUS FOR SUSPENDING PATIENTS, TO APPLY PLASTER OF PARIS JACKETS.



It consists of a curved steel rod, having an eye in its center and hooks at each end.

From the end hooks loops pass down under each axilla, and also to the chin and occiput, to support the head. The length of these loops can be regulated to suit every patient, by separate straps and buckles that connect the loops with the iron rod. Those parts of the loops that pass under the axillæ and chin are well padded.

The whole apparatus is attached by the eye in the center of the iron rod to one of a set of compound pulleys; and the opposite pulley secured to the ceiling or some other safe attachment of sufficient height; the patient is easily elevated by the bands under the axillæ, chin and occiput, until the heels cannot touch the floor.

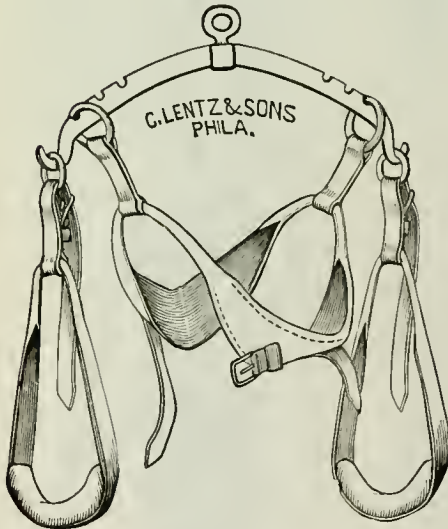
Apparatus with compound pulleys, plain finish . . \$9 00

Apparatus with compound pulleys, all metal parts nickel plated 10 00

Extra Chin Neck-Bands, different sizes . . . each 3 00

Tripod see page 596.

7990.* CHARCOT'S SUSPENSION APPARATUS.



7990



7991

This apparatus is similar to Sayre's, with a slight modification of the curved steel rod and chin neck-band; the latter is easier adjusted to various size heads.

Apparatus with compound pulleys, plain finish \$9 00

“ “ “ all metal parts nickel plated 10 00

7591.* Showing chin neck-band applied.

See Information and Terms on page 542.

Orthopedic Apparatus. †

8000. SUPPORTER FOR THE RELIEF OF SACRO-ILIAC SPRAIN AND LUXATION, DR. R. L. PITFIELD'S.

Made of strong non-elastic webbing and reinforced at various places with light, pliable steel stays. Adjustable in front by means of straps and buckles. Perineal straps are provided. The appliance should be worn tight.

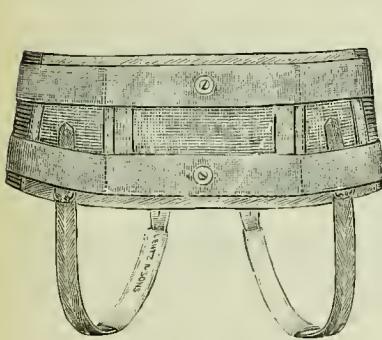
When ordering, state:

Circumference of pelvis above trochanter.

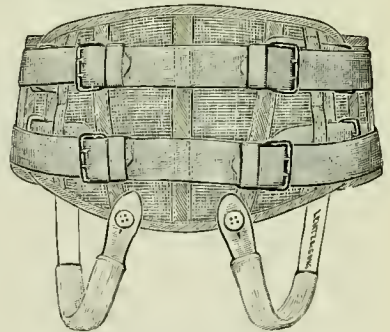
Circumference just above crests of ilium.

Price, according to size \$4 00 to \$5 00

8002.* SUPPORTER FOR THE RELIEF OF SACRO-ILIAC SPRAIN AND LUXATION, DR. JAMES K. YOUNG'S.



8002, back view



8002, front view

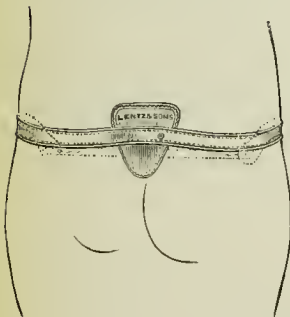
This most efficient device is a combination of an abdominal supporter of special construction and a triangular pad which is well cushioned in order to exert the required pressure upon the sacrum. The pressure either to the upper or to the lower region of the sacrum is regulated by means of two semi-circular, hard-tempered steel springs to which strong straps of webbing are firmly attached and which are buckled in front.

In order to center the pressure upon the upper region of the sacrum, the upper straps are drawn tight while the lower ones remain moderately loose; proceed vice versa in order to center the pressure upon the lower region of the sacrum.

Perineal straps are used when required to retain the apparatus in position.

When ordering, state circumference of pelvis above trochanter major (13), as per diagram on page 543.
Price \$10 00 to \$14 00

8004.* SUPPORTER FOR THE RELIEF OF SACRO-ILIAC SPRAIN AND LUXATION, DR. G. G. DAVIS'.



8004

It is constructed on the principle of a truss, consisting chiefly of a well-tempered steel spring, which is fitted accurately to the shape of the pelvis just below the crests of ilium, and incorporated into a soft padded leather cover. The extreme ends of the spring are made wide and provided each with a stud to which an adjustable strap is buttoned, connecting the two ends and holding the appliance firm to the body. The desired pressure upon the sacrum is effected by a well-padded back plate which is attached to the posterior part of the spring. Perineal straps are not necessary in this appliance.

When ordering, state circumference of body below the crests of ilium.

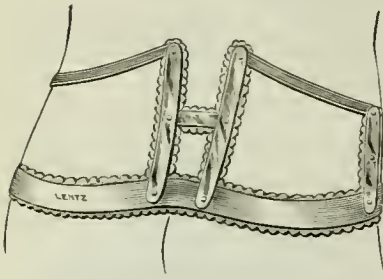
Price, according to finish from \$8 00 to \$12 00

See Information and Terms on page 542.

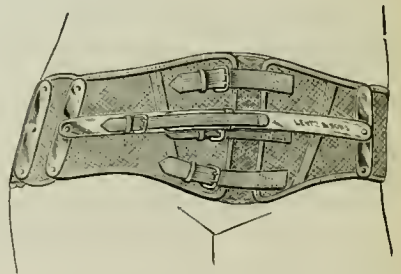
All articles illustrated are designated by a *.

Orthopedic Apparatus. +

8006.* PELVIC SUPPORTER FOR THE RELIEF OF SACRO-ILIAC SPRAIN AND LUXATION, DR. DE FOREST WILLARD'S.



8006, back view



8006, front view

In this appliance the pressure upon the sacro-iliac junction is exerted by two short upright bars about six to eight inches long which are rigidly attached to a steel girdle that embraces the pelvis half way around posteriorly. Two lateral short upright bars at each side extend to the crests of ilium and are connected at their upper ends with the posterior bars by means of leather straps.

The steel skeleton constructed in this manner is comfortably lined with felt, accurately shaped and closely fitted to the respective parts of the body, and it forms the principal part of the apparatus.

The anterior portion consists of a sateen or canvas belt, adjustable by means of three or more buckles and webbing straps, of which one forms a substantial connection with the lateral bars. In drawing the webbing straps tightly, the pressure upon the sacrum is increased; the regulation may be made according to the requirements and comfort of the patient. Perineal straps are used when required.

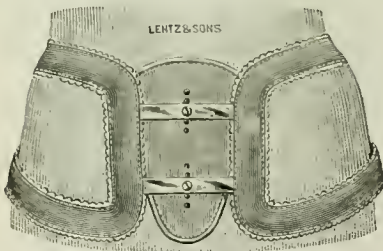
Measurements required:

1. Patient's name (or sex).
2. Circumference of pelvis above the trochanter (13).
3. Circumference just above the crests of ilium (15).

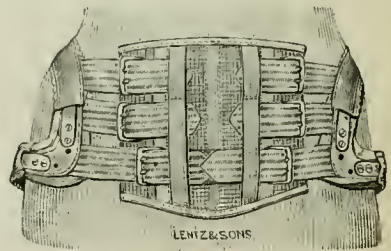
Price

\$18 00 to \$22 00

8008.* PELVIC SUPPORTER FOR THE RELIEF OF SACRO-ILIAC SPRAIN AND LUXATION, DR. WM. J. MERRILL'S.



8008, back view



8008, front view

This appliance consists mainly of a well-padded, adjustable back plate, mounted on springs, and an equally well-padded steel frame in two sections, all braced together substantially. Each half of the steel frame represents a band passing half way around the pelvis just above the trochanter and extending posteriorly to the anterior superior spine, where it terminates in a pad. The upper or crest portions are curved upon their flat sides to fit snugly over the crests. This form of construction creates pronounced stability at the ilia.

The pressure upon the sacrum is produced by the combined forces of the back springs and the steel frame, supplemented by the backward stress on the pads below the anterior superior spines.

The front part of the apparatus, which consists of jean or other soft material, covers the abdomen, and is provided with straps and buckles to allow for ample adjustment. It holds the appliance firmly to the body. Perineal straps are not required.

A plaster of Paris cast of the pelvis may be taken for more accurate fitting; however, the same is not absolutely necessary.

Measurements required, same as for No. 8006.

Price, according to size

\$15 00 to \$22 00

Orthopedic Apparatus. +

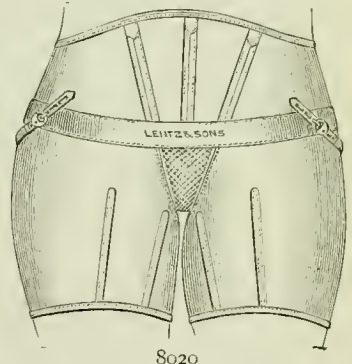
8020.* APPARATUS FOR THE PREVENTION OF MASTURBATION, FOR FEMALE.

Made of jean material and thoroughly reinforced by non-corrosive steel stays. It embraces the body from the upper part of the abdomen to the middle of the thighs, and is so constructed as to make the advance toward the genitals impossible even to the most ingenious child. Soft padding is provided where the metal parts come in contact with the body.

The metal protector is made of silver wire mesh, and firmly attached to a steel girdle running half way around the pelvis below the crests of ilium. It is held close to the body by perineal chains, which are covered with rubber tubing and locked to the pelvic girdle. The apparatus can be worn constantly, and is so arranged that it does not interfere with defecation.

Measurements and outlines required, as per diagrams and directions on pages 543, 544 and 545:

1. Patient's name and age.
2. Circumference of body in line of umbilicus.
3. Circumference of body below the crests of ilium.
4. Circumference of thigh at perineum (11).
5. Circumference at upper third of thigh (10).
6. Circumference at middle of thigh (9).
7. Distance from middle of thigh to waist (9-16).
8. Outline of pelvis below crests of ilium.
9. Outline of body from waist to middle of thighs.



8020

When taking outline of body, lay patient on back on a smooth sheet of paper; with a long pencil, holding the same perpendicularly, draw a line from the waist to middle to thigh and from perineum to middle of thigh, on both sides, and mark the figures on same paper at their respective places.

Price \$40 00 to \$50 00

8022. APPARATUS FOR THE PREVENTION OF MASTURBATION, FOR MALE.

Constructed like No. 8020, except that the receiving part for the genitals is moulded of perforated sheet silver.

Price \$50 00 to \$60 00

8024.* BRADFORD'S FRAME.

The acute stage of various orthopedic diseases of tuberculous origin requires absolute rest to the patient; Pott's disease may be mentioned as one of the chief types of the group. The illustration shows the Bradford Frame, which is constructed for the purpose of retaining the child in a fixed position on the stretched surfaces of the canvas portions, so as to have no superincumbent weight pressing upon any portion of the spine. An opening between the two canvas coverings is provided for defecation.



8024

If required, pulleys for extension may readily be attached to either the head or the foot-end of the frame.

When ordering, note that the frame should be about 8 inches longer than the patient and 6 inches wider than the breadth of the shoulders.

It is made in three sizes:

45 x 15 in., \$13 00; 55 x 20 in., \$14 00; 65 x 25 in., \$15 00.

Pulley attachment, extra \$4 00
 Jury mast, extra 4 50

PLEASE DO NOT MUTILATE THIS BOOK.

In ordering, state number of apparatus and give directions required, and we can execute orders satisfactorily. Cutting out illustrations does not aid us any, but destroys the page for future reference.

Orthopedic Apparatus.

8030.* ARTIFICIAL NOSE.

Made of specially vulcanized caoutchouc, shaped to conform to the rules of beauty and to resemble as near as possible the lost member.

It is accurately fitted to the contours of the respective parts of the face, covering the remnants of the nose as well as the openings. It is held in place by a pair of speetaeles with wide nose piece, to which latter the artificial nose is attached securely. This manner of construction has the decided advantage of not requiring any springs to enter the fossæ.

It is worn with ease, very light in weight, life-like, and if properly fitted will hardly show points of attachment; it is painted to correspond to the tint of the face.

When ordering, give general description of the case; if possible, send photograph of patient before mutilation of nose. Also furnish accurate impression of affected parts and surroundings.

Price \$50 00 to \$100 00



8030.

8032. DR. R. TAIT MCKENZIE'S SCOLIOSIAMETER, FOR THE ACCURATE MEASURING OF SPINAL CURVATURES.

It records efficiently the differences in levels of the shoulders, of the points of the scapula, and of the iliac crests; measures the deviation of the spinous processes at all levels, gives the outlines of the hips and shoulders, and demonstrates the nature of rotation when present.

The instrument is fixed on a horizontal iron stand, into which a rigid upright rod is screwed firmly. To this rod two arms are attached by collars that can be moved up and down and clamped by thumb screws. The lower one of the arms passes behind the patient and fixes the hips, preventing any sidewise movement. The upper arm passes in front of the patient and fixes the shoulders. To the collar of the upper arm is attached a pantograph, set to make tracings reduced to one-fourth.

To take a tracing, the spinous processes are marked with a flesh pencil; the patient is placed on the stand; the hips are clamped at the level of the trochanters; the shoulder arm is then moved up or down, adjusted, and clamped after the patient has settled into the habitual position. With the pointer of the pantograph then follow the line of the spine, note the gluteal cleft and the points of the scapula, and then finish with an outline of the shoulders and hips.

In taking cross sections, in order to show the rotation, let the patient stand bent over, and the pointer of the pantograph follow lightly the line of the back at the desired level.

Price on application.

8026.* BRACE WRENCHES.



Double, with two widths of jaws; forged steel; for bending and shaping the steel bars of every kind of orthopedic apparatus. Very useful to the physician, as with their aid he can readily remedy any undue pressure, or improve the shape of the brace as the condition may indicate.

Price, per set of two double wrenches.

. \$2 50 net

Artificial Limbs.

We present herewith a few illustrations of the most important and successful styles of artificial legs and arms which we manufacture, and which have become recognized as the most durably and lightly constructed limbs on the market, combining comfort to the wearer and neatness in appearance.

Particular attention is directed to the artificial feet and hands, the former of which being constructed in very substantial manner, capable of supporting the weight of the body, and articulating in a most satisfactory degree; while the hands are a close imitation of the natural member, articulating like it, each joint movable, an artistic substitute for the lost member.

The frames of our artificial legs and arms are carved from selected willow wood, which has no equal as regards elasticity and lightness; covered with rawhide specially prepared for the purpose, and enameled flesh color.

When ordering artificial limbs it must be remembered that it is preferable to have the patient present to be measured. However, with our new system of measuring we are now enabled to so adjust the manufacture of these appliances that a good fit can be guaranteed when proper measurements have been sent to us. Parties at a distance can thus order from us without incurring the expense incident to a long journey. Suitable measurement blanks will be sent free on application; they contain plain instructions, so that almost any one of ordinary intelligence can take the measurements without difficulty.

A plaster of Paris cast of the stump is required in all cases; particular care should be exercised where the stump has any irregular or uncommon shaped surfaces.

TERMS.

At least one-half the price of an artificial limb must be paid at the time the order is placed, the balance when the limb is completed.

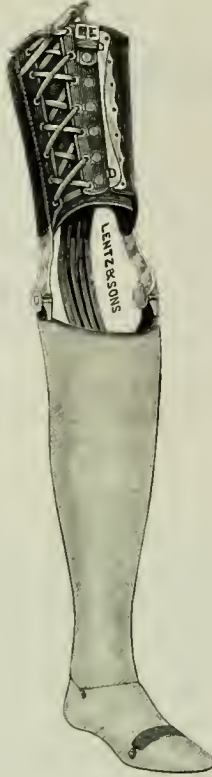
As we guarantee to deliver a perfectly fitting limb and warrant it for three years, customers take no risk by paying in advance, while protecting us against loss.

It should be understood that this guarantee does not obligate us to keep a limb in repairs for three years. It protects against poor material or inferior workmanship; but ordinary wear and tear, improper treatment and accidents are at the risk of the owner.

Artificial Legs.



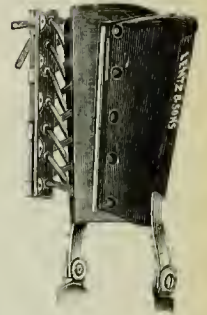
8050



8052



Closed.



Side view—open.

8054

8050.* **ARTIFICIAL LEG FOR AMPUTATION BETWEEN ANKLE AND KNEE JOINTS, WITH ADJUSTABLE SOCKET.** The lower portion of the leg is of selected willow wood; its upper section and the thigh socket adjustable; the latter provided with improved clamp (fig. 8054), which allows instant fastening.

Its construction is generally preferred in recent amputations, as the sockets can be regulated to suit the comfort of the wearer and the size of the stump, which in most cases is liable to become thinner in time. Choice of foot fig. 8062 or fig. 8064; see page 604.

The plaster of Paris mould should extend to about six inches above the knee-joint.
 Price \$85 00

8052.* **ARTIFICIAL LEG FOR AMPUTATION BELOW THE KNEE, WITH SOLID SOCKET.** We recommend this style of limb in all cases of short stump below the knee, or where no further shrinkage of the stump is anticipated, also when an artificial leg has already been worn.

Constructed like No. 8050, but without the leather adjustment at the lower leg socket.
 Price \$85 00

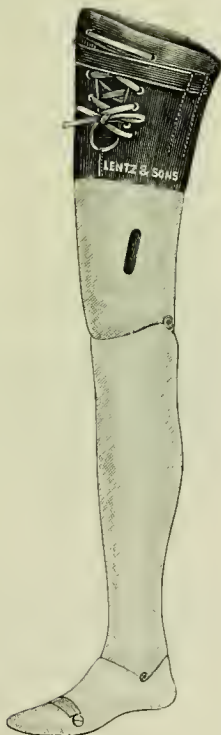
8054.* **IMPROVED ADJUSTABLE THIGH CLASP.** This is an ingenious device which will readily and quickly fasten and unfasten the thigh-socket after once the lacing has been adjusted to fit snugly. We provide this clasp on all our legs for amputation of lower leg.

See Information and Terms on page 601.
 Measurement blanks furnished on application.

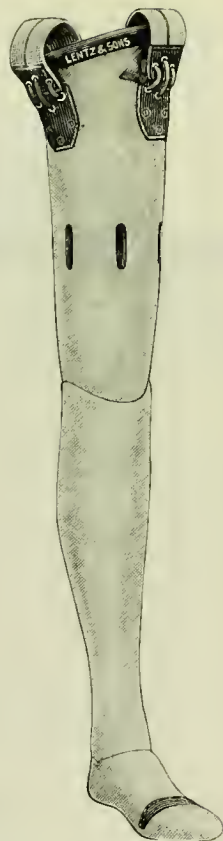
Artificial Legs.



8056



8058



8060

8056.* ARTIFICIAL LEG FOR DISARTICULATION AT THE KNEE-JOINT, OR FOR VERY SHORT STUMPS. (Knee-bearing Stumps.) For certain cases it is modified so as to bear part of the weight of the body on the ischium, thus relieving the pressure on the end of the stump. The leather socket is adjustable at front by lacing, and provided at bottom with a soft pad. The lower section of the leg is constructed like No. 8050. Motion at knee and ankle joints.

Price \$95 00

8058.* ARTIFICIAL LEG FOR THIGH AMPUTATION, WITH ADJUSTABLE SOCKET. Suitable for any amputation above the knee. Its walls are worked out almost to a shell in order to reduce the weight to a minimum. The knee-joint is of improved design and works automatically.

In the case of a very short stump an extension may be provided to below the crest of ilium, with a joint at the trochanter, and a band around the pelvis to give additional security.

Price \$95 00

8060.* ARTIFICIAL LEG FOR THIGH AMPUTATION, WITH SOLID SOCKET. It is preferably selected for cases where an artificial leg has been worn for some years, and where no further change in the size of the stump is anticipated. Motion at knee and ankle.

It is the lightest and most comfortable leg for thigh amputation ever made, and is guaranteed to give full satisfaction in every particular.

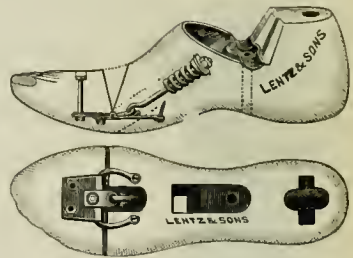
Price \$95 00

See Information and Terms on page 601.
Measurement blanks furnished on application.

Artificial Legs.



8062



8064

8062.* ARTIFICIAL FOOT. It is made of willow wood, neatly covered with rawhide, and enameled flesh color. The bottom part consists of either sponge-rubber or thick felt, as preferred, without toe-joint, as these materials are sufficiently flexible.

The form of ankle-joint has been in use for many years, and has become perfected with special reference to the combination of simplicity, strength and lightness. The axis is a hollow steel cylinder, securely fastened to the ankle part by two vertical steel rods. The lower branch is fastened inside the metal cylinder by a steel pin, connecting the foot to the ankle; the nut at its very end rests on the bottom of the foot and is adjustable. The smoothly polished surface of the cylinder works in a rawhide socket and requires but very little lubricating.

The tendon or heel cord is of very strong material; it limits the forward motion of the leg and is an important part in the movement of the foot, while a strong rubber cord at front counteracts and allows of a natural foot action when walking.

8064.* ARTIFICIAL FOOT. In general construction same as fig. 8062, with the difference that the foot is all wood artistically shaped to represent a well-built natural foot, and that it has a toe-joint. The toe part is hinged to the foot by steel flanges, the movement being controlled by a strong, well-tempered steel spring which is incorporated in the instep of the foot.



8064



8066

According to the individual desire of our patrons we provide our artificial legs with either of these two styles of feet.

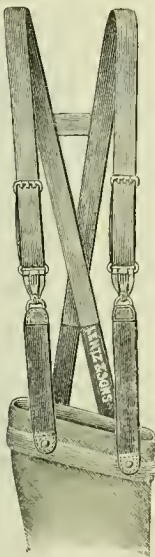
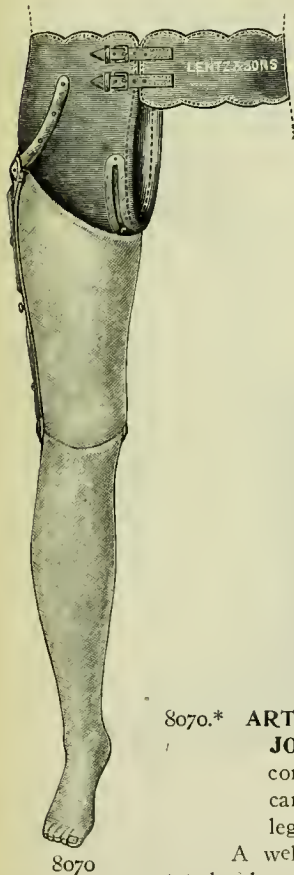
8064.* 8066.* SHOULDER STRAPS FOR ARTIFICIAL LEGS FOR AMPUTATION BELOW THE KNEE. With few exceptions it is advisable to use them in connection with the different forms of artificial legs. They are especially desirable to the beginner and may be discarded after the limb has been worn for some time.

Made of strong, two-inch wide, non-elastic webbing, generally with a piece of elastic webbing near either or both ends.

One shoulder strap furnished free of charge with each leg. Extra shoulder straps, fig. 8064 or fig. 8066 . . each \$2 00

See Information and Terms on page 601.
Measurement blanks furnished on application.

Artificial Legs.



8072



8074

8070.* **ARTIFICIAL LEG FOR DISARTICULATION AT THE HIP JOINT.** The calf and thigh-sockets are shaped artistically to correspond with the contours of the sound leg; the walls carved to thin shells, covered with rawhide, thus making the leg light and durable.

A well-fitting and comfortably padded socket receives the amputated side of the pelvis, held firmly in place by a broad belt. The inner edge of the lower surface of the socket is reinforced with a slotted strip of metal, in which slides a steel pin, to relieve the strain at the trochanter joint. The knee and trochanter joints are provided with automatic lock device, permitting the leg to be bent at angle when sitting. Choice of foot fig. 8062 or fig. 8064; see page 602.

A plaster of Paris cast of the pelvis is required.

Price \$150 00 to \$200 00

SHOULDER STRAPS FOR ARTIFICIAL LEGS FOR THIGH AMPUTATION.

They facilitate the proper use of the artificial leg, and assist in carrying the weight of the same. The design is selected according to the existing conditions of the stump and the individual requirements.

8072.* Made of non-elastic webbing with partial insertion of elastic; provided at front with adjustable buckles and snap-catches.

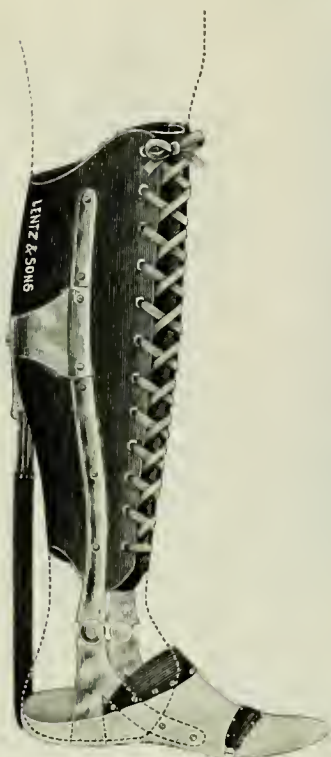
8074.* The bands are supplemented by a waist band; generally used for short stumps. The connecting straps run through rollers fastened at each side of the socket, and are self-adjusting.

One pair of shoulder straps furnished free of charge with each leg. Extra shoulder straps, fig. 8072 or fig. 8074 each \$6 00

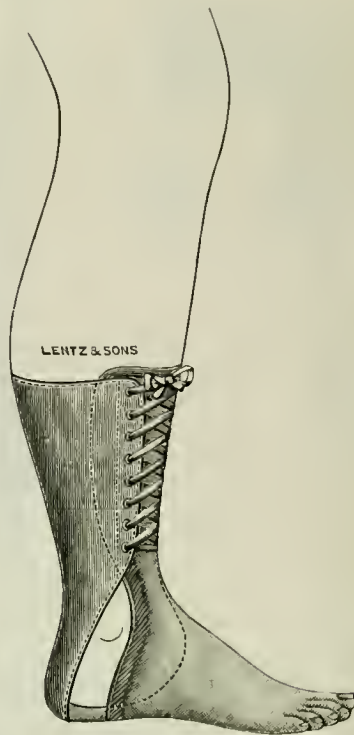
See Information and Terms on page 601.

Measurement blanks furnished on application.

Artificial Legs.



8076



8078

8076.* **ARTIFICIAL FOOT FOR CHOPART'S AMPUTATION (Our Improved Model).** A forged steel sole incorporated into a wooden foot forms a most substantial base for the apparatus. Fastened to it is a reenforced ankle stirrup, which terminates upward into lateral steel bars with joints at the ankle. The appliance is held firmly to the leg by an adjustable sole leather legging that is riveted to the side bars. An artificial muscle attached posteriorly controls the forward movement of the foot.

Price \$60 00

8078.* **ARTIFICIAL FOOT FOR PARTIAL FOOT AMPUTATION.** The perfection attained in the construction of this peculiar artificial substitute has overcome all the objections made against the operation.

The foot is made of wood, with either articulating toe-joint or flexible bottom, and is reinforced with a strong steel sole. The front or resisting part of the tibial socket is shaped of non-corrosive metal, the interior surface well padded. It is so constructed, that pressure will be distributed over the front area, the shin bone and tender parts of the leg being protected and not subjected to undue pressure. The rear part is of leather, shaped to fit the calf of the leg; it is provided with eyelets, and laces for comfortable adjustment.

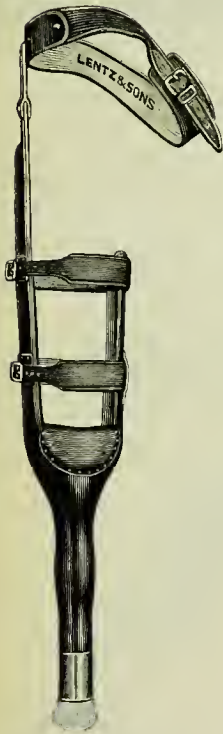
Stocking and shoe are drawn over the foot, rendering the appliance a counterpart in appearance to the sound leg.

To secure a perfect fit a plaster of Paris cast should be carefully taken of the stump of foot and of the leg up to below head of tibia.

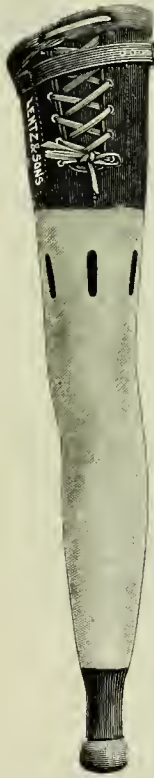
Price \$50 00

See Information and Terms on page 601.
Measurement blanks furnished on application.

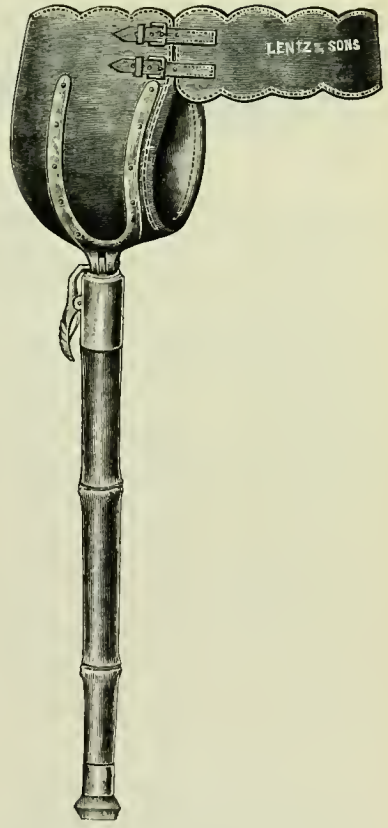
Peg Legs.



8080



8082



8084

8080.* **PEG LEG FOR AMPUTATION BETWEEN THE ANKLE AND KNEE-JOINTS.** Intended for laboring men and others whose means will not permit of the purchase of the more expensive artificial limb. It is also a serviceable appliance in recent amputations, before the stump is ready for a socket leg.

The frame and peg are made of wood, the lower extremity provided with ferule and rubber bottom; the knee rests upon a well-padded cushion. Two adjustable leather bands at thigh and a pelvic girdle are attached to secure proper hold to stump and body.

Price \$15 00

8082.* **PEG LEG FOR THIGH AMPUTATION.** A substitute for the lost limb at lower price than an articulated artificial leg. It is made of light and durable wood, shaped gracefully, covered with rawhide, enameled, and provided with a strong rubber base. The upper part of the thigh socket is made of leather and is adjustable. A pair of shoulder straps, either fig. 8072 or fig. 8074, is furnished with this limb.

Price \$50 00

8084.* **PEG LEG FOR DISARTICULATION AT THE HIP-JOINT,** or for very short thigh stump, which does not permit the use of the previously described bucket limb.

The peg is of bamboo, with steel ferrule at top and bottom ends and stout rubber tip. The receiving socket is of sole leather, accurately shaped over a plaster of Paris mould and well padded. A lock-joint device permits the peg to be bent at angle when sitting. A pair of shoulder straps, either fig. 8072 or fig. 8074, is furnished with this peg leg.

Price \$75 00

See Information and Terms on page 601.

Stump Socks for Artificial Limbs.



A stump bears the same relation to an artificial leg that a natural foot does to a shoe. Comfort and cleanliness demand that a sock should be worn on the stump, the same as on the foot.

A sock in either case provides a medium for collecting and absorbing the waste and moisture thrown off from the skin, and by removing the socks, airing and frequently washing them, the stump will be kept in a more healthy condition, and the socket of the leg will be better cared for.

Every wearer of an artificial limb should be provided with an ample supply of socks, so that frequent changes can be made. The same regard should be given to the stump as is given to the natural foot. If a stump perspires excessively, changes should be made more frequently.

We keep on hand a large supply of stump socks, and are able to fill orders promptly. The yarn for our woolen socks is especially prepared at the mills for our purpose. It is the best and softest that can be procured, and absolutely free from cotton or any foreign fibre, and our cotton socks are made of the choicest staple that can be put into thread.

They are made in white or brown, as may be preferred.

Our stock consists of eleven different sizes, ranging from 10 to 35 inches in length, and wide enough to fit any ordinary stump.

In ordering, give length of sock desired and the following measurements :

Circumference of stump, close to body.

"	4 inches below	"
"	8 " "	"
"	12 " "	"
"	16 " "	"
"	20 " "	"
"	24 " "	"
"	28 " "	"

In giving the length of sock and determining the number of size, five inches should be added to the length of stump to allow for turning over the top of leg and the shortening caused by the stretch in drawing on the stump.

In some cases of amputation below the knee, a short sock in addition to a full length one to come only to the knee joint is desired. For such cases Nos. 0, 1 or 3 will be suitable.

The following schedule will enable anyone to determine the sizes and the prices of the socks required.

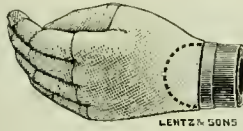
No.	SIZES.		COTTON.		WOOLEN.	
	Length of Sock, in inches.	Circumference at largest part of Stump, in inches.	Price Each.	Price per Dozen.	Price Each.	Price per Dozen.
0	1 to 10	Under 15	\$0.20	\$2.00	\$0.40	\$ 4.00
1	10 to 15	Under 15	.30	3.00	.50	5.00
2	10 to 15	Over 15	.40	4.00	.60	6.00
3	15 to 20	Under 15	.40	4.00	.60	6.00
4	15 to 20	Over 15	.50	5.00	.70	7.00
5	20 to 25	Under 15	.50	5.00	.70	7.00
6	20 to 25	Over 15	.60	6.00	.80	8.00
7	25 to 30	Under 15	.60	6.00	.80	8.00
8	25 to 30	Over 15	.70	7.00	.90	9.00
9	30 to 35	Under 15	.70	7.00	.90	9.00
10	30 to 35	Over 15	.80	8.00	1.00	10.00

One-quarter or one-half dozen sold at dozen rates.

Artificial Arms and Hands.

The artificial arm is made to fulfill various requirements; not only to fill out the sleeve of the coat and to conceal the mutilation, but also to do a certain amount of actual work, provided, however, that the remaining stump is of sufficient length and strength to control the movements of the artificial member; it further helps to assist the opposite hand, and restores the natural appearance to the dismembered side.

More particularly has it been our aim to construct an artificial hand that should be the nearest approach to the natural hand. We have been very successful in the



accomplishment of our efforts in this direction and present herewith a decided innovation in the line of artificial hands. It is made of selected wood, very light in weight; the fingers carved neatly; the articulations joined artistically and easily movable; the wrist is provided with ball bearing, permitting free motion.

We attach this style of hand to all our artificial arms, unless a lower priced hand is specifically ordered.

A glove should be worn over the artificial hand at all times.

When ordering an artificial arm, it is necessary to furnish us a plaster of Paris mould of the stump. Measurement blanks are furnished on application.



9000

9000.* **ARTIFICIAL HAND FOR WRIST-JOINT AMPUTATION.** As such operation usually leaves the stump somewhat larger at the end than immediately above, a lacing socket reaching to below the elbow is provided, to receive the stump, and to establish a firm hold on the arm, so that an extension above the elbow joint may be omitted.

The leather socket is well shaped over a plaster of Paris cast and firmly attached to the wooden hand. Provision can be made for attachment of knife, fork or hook, same as on other hands.

Price, including thoroughly articulated hand (see above)	\$60 00
Price, including hand with only the thumb articulated	50 00



9002

9002.* **ARTIFICIAL ARM FOR AMPUTATION AT OR ABOVE THE WRIST-JOINT.** This type is preferably applied when the styloid prominences have been removed, and the stump has become tapering.

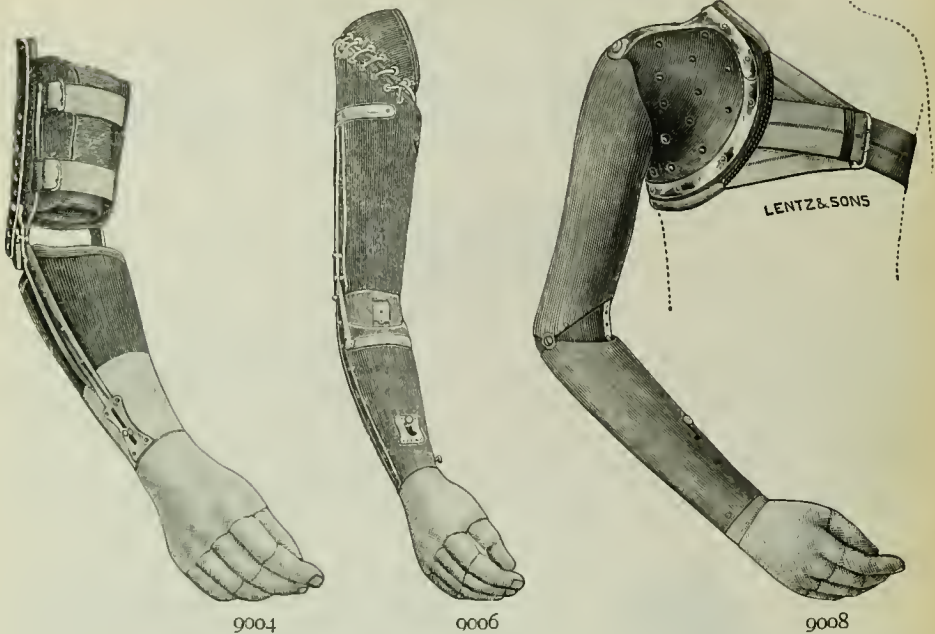
The forearm socket is carefully made over a plaster of Paris cast of the stump and is adjustable by lacing. It is connected with the arm socket by either regulating straps or lateral steel hinges. The hand has ball bearing at wrist-joint, and is firmly attached to the forearm socket.

Price, including thoroughly articulated hand (see above)	\$75 00
Price, including hand with only the thumb articulated	60 00

See Information and Terms on page 601.

Measurement blanks furnished on application.

Artificial Arms and Hands.



9004.* **ARTIFICIAL ARM FOR AMPUTATION OF THE FOREARM.** Similar to No. 9002, adapted, however, for radial stumps that are shorter than five inches, and that require a firmer method of securing the stump socket to the upper arm than by the leather joints. While there is somewhat less freedom in the elbow movement, the steel joints offer the advantage that they place the arm under firmer control of the stump. The hand has ball bearing at wrist-joint.

Price, including thoroughly articulated hand (see page 609) \$75 00

Price, including hand with only the thumb articulated 60 00

Price, with steel hook instead of artificial hand 30 00

Tools for use with artificial arms, such as knives, forks and hooks, furnished at lowest prices.

9006.* **ARTIFICIAL ARM FOR AMPUTATION ABOVE THE ELBOW.** Adapted for humeral stumps; its range of utility depends on the length of the stump.

Made of specially prepared leather and mounted with two lateral steel bars jointed at the elbow. The elbow joint will permit both flexion and extension; it can be retained in angular position by means of an automatic device, and will in such position enable the wearer to carry various articles.

The hand has ball bearing at wrist-joint and is detachable; by pressing a push button above the wrist-joint, it may be unlocked from the wrist plate and a knife, fork or hook put in its place.

Price, including thoroughly articulated hand (see page 609) \$85 00

Price, including hand with only the thumb articulated 75 00

9008.* **ARTIFICIAL ARM FOR AMPUTATION AT THE SHOULDER JOINT.**

It will not only provide a means for assisting the other arm, but will also keep the shoulders in position, and restore symmetry to the body.

The base of the appliance is a leather shoulder cap, carefully formed over a plaster of Paris cast of the affected shoulder and reinforced with a circular steel band, which unites at the top of the shoulder; the leather is perforated to prevent excessive perspiration. It is held firmly to the body by broad bands of webbing, which pass around the thorax and underneath the axilla of the opposite side, and which adjust anteriorly by a strong buckle. The position of the shoulder joint is oblique and allows for natural movement of the arm while walking.

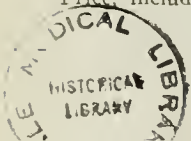
In most other respects the construction of the arm is similar to No. 9006.

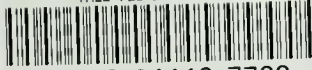
Price, including thoroughly articulated hand (see page 609) \$125 00

Price, including hand with only the thumb articulated 110 00

See Particulars and Terms on page 601.

Measurement blanks furnished on application.





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