CATALOGUE

OF

ACHROMATIC MICROSCOPES, &c.

MANUFACTURED BY

SMITH AND BECK,

TO WHOM THE COUNCIL MEDAL OF THE GREAT EXHIBITION OF 1851 WAS AWARDED "FOR THE EXCELLENCE OF THEIR MICROSCOPES,"

6, COLEMAN STREET, LONDON,

MARCH 1853.

THEIR improved form of Stand, which is contrived for an easy and most accurate mode of applying every kind of illumination, was shown by them at the Great Exhibition of 1851, and is thus mentioned by the Jury :—

"The Stand is excellent in principle; the body, stage, and appliances beneath, are all carried on one stout bar, on the recommendation of Mr. G. Jackson, by means of which the centring of the Achromatic illumination is rendered easy and certain; and on any tremor being communicated to the Instrument, it is equally distributed over the whole of the working parts." —(*Reports of the Juries*, pa. 266, Class X. No. 253.)

The increase of the Angle of Aperture, which S. & B. have lately effected in their Object-Glasses, is more especially worthy of notice in the lower powers, which, adjusting through considerable thickness of glass, or some depth into water, will, with a large aperture, exhibit those objects which are the most frequent observation of the naturalist, with a definition that a smaller angle of aperture cannot give. One of these Object-Glasses, a $\frac{4}{10}$ths (erroneously called "half-inch"), is thus alluded to in the "Reports of the Juries of the Great Exhibition" (pa. 266, Class X. No. 253) :—

"The half-inch focus of 70° aperture is a wonderfully fine combination, easily showing objects considered difficult for a one-eighth inch focal length a little more than a year since, and bearing the application of the higher eye-pieces in an unprecedented manner."

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RED LION COURT, FLEET STREET.

CONTENTS.

	Page
Prices of Stands for Achromatic Microscopes, exclusive of Object-Glasses, Apparatus and Cases, except where mentioned	1
Microscope Cases, for No. 1 Instrument, No. 2, Nos. 3 & 4.	2
Achromatic Object-Glasses for the Microscope	3
Apparatus which applies to the cylindrical fitting under the stage of No. 1 or No. 2 Microscope	3
Apparatus as applied to No. 3, No. 4 and No. 5 Microscopes	4
Apparatus for Microscopes in general	4
Microscope Tables	5
Microscope Lamps	5
Microscopic Objects	6
Cabinets for Objects, in which the Specimens lie flat, and with Porcelain Labels to the Drawers	6
Instruments used in Preparing Objects	7
Materials used in Mounting Objects	7
Woodward's Table and Hydro-Oxygen Polariscope and Microscope	8
Books	8
Telescopes	8
Spectacles and Eye-glasses	9
Stereoscopes	10
Drawing Instruments, &c.	10
Barometers, Thermometers, &c.	10

PRICES OF STANDS

FOR

ACHROMATIC MICROSCOPES,

Exclusive of Object-Glasses, Apparatus and Cases,

EXCEPT WHERE MENTIONED.

[*The construction of all these Microscopes is now so arranged, that* SMITH AND BECK *can supply any apparatus without requiring the Instrument for fitting.*]

		£	s.	d.
No. 1.	**Improved large Microscope,** the limb continued under the stage, and with cylindrical fitting and rackwork, for applying all illuminating apparatus with ease and accuracy, mounted on two pillars and cones, with revolving base to tripod; body with quick and slow motions, graduated sliding tube, and two eye-pieces; stage half inch thick, with vertical and horizontal actions (given by rackwork and screw, or lever), sliding and revolving planes, and spring clamping piece; diaphragm with revolving and removeable fittings; large plane and concave mirrors, with lengthening arm, and sliding on a triangular bar; pliers, joint and forceps, and two glass plates	22	0	0
No. 1.	**Improved large Microscope,** on exactly the same construction, but made very portable	25	0	0
No. 2.	**Improved smaller Microscope,** on the same principle, and with the same actions as No. 1, but with single pillar, on tripod stand	18	0	0
No. 2.	**Improved smaller Microscope,** made portable	21	0	0
No. 3.	**Best Student's Microscope,** with uprights and joints, quick and slow motions to body, graduated sliding tube, and two eye-pieces; thin stage, with vertical and horizontal actions by rackwork, sliding and revolving planes, and spring clamping piece; diaphragm with revolving and removeable fittings; double mirror, with lengthening arm; pliers, forceps, and two glass plates	12	12	0
No. 4.	**Best Student's Microscope,** the same as No. 3, but with plain stage, consisting of sliding piece and clamping spring, one eye-piece, and single concave mirror	8	8	0

	£	s.	d.
No. 5. **Smaller Student's Microscope**, with quick and slow motions to body, one eye-piece, sliding tube, stage the same as No. 4, revolving and removeable diaphragm, single concave mirror, pliers, forceps, one glass plate, and mahogany case	5	10	0
No. 6. **Hospital Microscope**, without joint, body with rack-work motion, or sliding tube and slow motion, one eye-piece, diaphragm, single mirror, and mahogany case	3	10	0
No. 7. **Travelling Microscope**, quick and slow motions to body, two eye-pieces, sliding tube, stage the same principle as No. 4, revolving and removeable diaphragm, double mirror, and packed in a mahogany case 10 inches by 4¼ inches and 3¼ inches deep ...	7	7	0
No. 8. **Dissecting Achromatic Microscope**, with quick motion and graduated sliding tube to body, stage the same as No. 4, revolving and removeable diaphragm, single concave mirror, ⅔rds object-glass, one eye-piece, erecting glasses and case; power from 5 to 100 linear.....	12	12	0
No. 9. **Darwin's Improved Single Microscope**, with one doublet, three single, and three Coddington lenses, dissecting apparatus complete, and packed in a case	10	0	0

MICROSCOPE CASES,

FOR NO. 1 INSTRUMENT.

Best Upright Case in Spanish mahogany, with box for apparatus.....	3	15	0
Best Upright Case, with two boxes	4	10	0
Upright Case in Honduras mahogany, with box for apparatus.....	2	10	0
Upright Case, with two boxes	3	3	0
Strong Flat Case in Spanish mahogany, with covered dovetails for the instrument when made portable	2	10	0

NO. 2.

Best Upright Case in Spanish mahogany, with box for apparatus.....	3	3	0
Upright Case in Honduras mahogany, with box for apparatus.....	2	2	0
Strong Flat Case in Spanish mahogany, with covered dovetails for the instrument when made portable	1	15	0

NOS. 3 & 4.

Best Upright Case in Spanish mahogany, with box for apparatus.....	2	10	0
Upright Case in Honduras mahogany, with box for apparatus.....	2	0	0
Strong Flat Case in Spanish mahogany, dovetailed.....	1	5	0

Achromatic Object-Glasses for the Microscope.

Focal length.	Linear Magnifying Power nearly*. With Eye-Pieces	N°.1	N°.2	N°.3	Angle of aperture about	Price. £	s.	d.	Lieberkuhn additional.
$1\frac{1}{2}$ inch	Draw-tube closed	20	45	80	13 degrees	3	0	0	15*s.*
	Add for each inch of tube drawn out	4	6	8					
$\frac{2}{3}$ inch	Tube closed	60	105	180	27 degrees	3	3	0	11*s.*
	Add for each inch of tube.....	7	12	20					
$\frac{4}{10}$ inch	Tube closed	120	210	350	55 degrees	5	5	0	10*s.*
	Add for each inch of tube.....	12	20	35					
Ditto	Ditto	do.	do.	do.	65 degrees	6	6	0	10*s.*
$\frac{1}{5}$ inch	Tube closed	240	430	720	85 degrees	6	6	0	
	Add for each inch of tube.....	30	45	80					
Ditto	Ditto	do.	do.	do.	100 degrees	7	7	0	
$\frac{1}{8}$ inch	Tube closed	450	760	1300	100 degrees	8	8	0	
	Add for each inch of tube	40	60	115					
Ditto	Ditto	do.	do.	do.	120 degrees	10	10	0	

* With the $\frac{2}{3}$ inch object-glass and the erecting glasses, employing eye-pieces Nos. 1 and 2, the magnifying power will range from 5 to 150.

APPARATUS

which applies to the cylindrical fitting under the stage of No. 1 or No. 2 Microscope.

	£	s.	d.
Achromatic Condenser on an improved construction of two powers, and revolving diaphragm, to give various illuminating pencils from 80° to 25°, also stops for the central rays, complete with adjustments	5	0	0
Achromatic Condenser without diaphragm, apertures 60° and 20°, brass work with adjustments	2	10	0
Achromatic Condenser, Brasswork of, with adjustments.....	1	0	0
Wenham's Parabolic Reflector, giving a dark field with an object-glass of 100° of aperture, with adjusting stop and fittings	1	15	0
Amici's Prism for oblique light, mounted on an improved plan, with the reflecting surface uncovered for the convenience of wiping	2	2	0

	£	s.	d.
Nachet's Prism for oblique light, with accurate revolving fitting	1	1	0
Right angle Prism for reflecting the light more perfectly than the mirror, with adjustments and fittings to the triangular mirror stem complete, and the reflecting surface uncovered for the convenience of wiping	2	10	0
Polarizing Apparatus, of two Nicol's prisms and one selenite film, with revolving fittings to all	2	10	0
Darker's Series of Selenites, which give 13 different colours and their complementary tints, mounted on an improved plan for their more accurate and easy appliance	3	10	0
Darker's Series of Selenites, adapted to the Selenite fitting mentioned in "Polarizing Apparatus"	1	7	6
Bundle of Thin Glass for polarizing by reflection or transmission	1	1	0
Black Glass for polarizing	0	15	0
Dark Wells of three sizes, and holder	0	12	6

APPARATUS

AS APPLIED TO No. 3, No. 4 and No. 5 MICROSCOPES.

Achromatic Condenser of two powers, 60° and 20° of aperture, rackwork and complete adjustments to brasswork	3	0	0
Achromatic Condenser as above, with sliding fitting, and no adjustments to brasswork	2	5	0
Achromatic Condenser, Lenses of	1	10	0
Wenham's Parabolic Reflector, with sliding stop, rackwork, and complete adjustments to brasswork	3	17	6
Wenham's Parabolic Reflector, with plain sliding fittings	2	10	0
Nachet's Prism for oblique light	0	18	0
Polarizing Apparatus, of two Nicol's prisms with revolving fittings, and one selenite film	2	10	0
Dark Wells of three sizes, and holder	0	12	6

APPARATUS

FOR MICROSCOPES IN GENERAL.

Extra Eye-piece for No. 1 Microscope	0	17	6
Extra Eye-piece for No. 2, 3, 4, or 5 Microscope	0	15	0
Extra Eye-piece for Hospital Microscope	0	13	0
Indicator to Eye-piece	0	5	0
Micrometer, with Jackson's adjusting screw and fittings to Eye-piece	1	0	0
Micrometer for Stage, divided into 100ths and 1000ths of an inch, and mounted in brass	0	10	0
Micrometer for Stage, divided into 100ths and 1000ths of an inch unmounted	0	5	0

	£	s.	d.
Wollaston's Camera Lucida, with large field and fittings to Eye-piece	1	0	0
Erecting Glasses, with which, employing the two-thirds inch Object-glass and Eye-pieces No. 1 and 2, the magnifying power will range from 5 to 150 linear	1	0	0
Large Bull's-eye Lens on stand	1	1	0
Smaller Condensing Lens, with ball and socket fitting, to apply to No. 1 or No. 2 Microscope	0	18	0
Smaller Condensing Lens, on stand, and complete movements	0	12	0
Side Silver Reflector, with fittings to limb, or on a separate stand	1	1	0
Amici's Prism for oblique light, mounted on a stand	2	2	0
Polarizing Apparatus, of two Nicol's prisms with revolving fittings, and one selenite film	2	10	0
Darker's Series of Selenites, with stage and revolving fittings	2	2	0
Two Double Image Prisms and Selenite Film, with fittings to Eye-piece and brass plate with holes	2	2	0
Crystals to show rings round the optic axis and fitted to Eye-piece ..... each from	0	10	6
Tourmalines ..... from	1	0	0
Brooke's Double Nose-piece	1	10	0
Compressorium	1	0	0
Wenham's Compressorium for Parabolic Reflector	0	7	6
Screw Live Box	0	14	6
Large plain Live Box	0	8	6
Small plain Live Box	0	6	6
Large Glass Trough, with wedge and spring complete	0	8	6
Small Glass Troughs ..... from	0	5	0
Set of three Glass Tubes	0	2	6
Glass Plates, with hollows and ledges ..... from	0	1	6
Three-pronged Forceps and Joint	0	8	6
Large Brass Pliers and smaller ditto ..... 0 5 0 and	0	2	6

MICROSCOPE TABLES.

	£	s.	d.
Handsome Walnut-wood Table, to revolve on carved pillar and claw, with plate-glass top, and apparatus packed in the drawers, as shown at the Exhibition	25	0	0
Walnut-wood Table, with improved revolving fitting, on handsome pillar and claw, with leather top	8	8	0
Iron Table with revolving top	5	5	0

MICROSCOPE LAMPS.

	£	s.	d.
Improved small Camphine Lamp, with glass cap, to prevent evaporation of the spirit when not in use	2	2	0
Best Argand Lamp, with blue chimney, for burning oil	1	5	0

Gas Lamps made to order.

MICROSCOPIC OBJECTS.

[*Persons living in the country can have series of Objects sent for selection, on giving a satisfactory town-reference and paying carriage both ways. One week will be allowed for examination.*]

	£	s.	d.
Vegetable Preparations:—			
Recent: Cells, Cuticles, Ducts, Fibre, Membrane, Spores, Sporules, Tissues, Spiral and other Vessels, Hairs, Leaves, Petals, Fungi, Sections of Woods, &c. .....each specimen	0	1	6
Fossil: Sections of various exogenous and endogenous Woods .....each section	0	1	6
Slides, with two and three sections ..... 0 3 0 and	0	4	6
Desmidieæ and Algæ .....each slide	0	1	6
Diatomaceæ:—*Recent*: Several hundred varieties, including species of Campylodiscus, Cocconema, Epithemia, Navicula, Surirella, Synedra, &c.—*Fossil:* Specimens from various localities in the British Islands, Germany, Italy, North America, the East and West Indies, New Zealand, &c.	0	1	6
Spicules and Gemmules of Sponges and Gorgonias	0	1	6
Zoophytes, many species	0	1	6
Shells, sections of various species	0	1	6
Echinus Spines, sections in great variety	0	1	6
Entomological Preparations:			
Antennæ, Eyes, Feet, Hairs, Scales, Skins, Spiracles, Stings, Stomachs, Tongues, Tracheæ, Wings, &c. Specimens of numerous Acari and Parasites.....	0	1	6
Hairs, Whiskers of various Animals mounted whole or in section, Quills, Feathers of Birds, &c.	0	1	6
Objects from Human and other Bodies	0	1	6
Anatomical Preparations:—			
Blood-Discs, Pigment-Cells, Skin, Muscular Fibre, Tissues, &c. .....from	0	1	6
Bones:—			
Transverse and Vertical Sections of 60 or 70 Recent and Fossil Mammals, Birds, Reptiles, and Fishes each slide	0	1	6
Teeth:—			
Transverse and Vertical Sections of about 30 varieties, Recent and Fossil .....each	0	2	0
Injected Preparations .....from	0	2	6
Polariscope Objects, about 100, selected from Animal, Vegetable, and Mineral Substances .....each	0	1	6
Mineralogical:—			
Sections of Limestones, Oolites, Flints, Agates, &c. each from	0	1	6

CABINETS FOR OBJECTS,

in which the Specimens lie flat, and with Porcelain Labels to the Drawers.

Best Spanish Mahogany Cabinet, with glass panel, and to hold 1000 objects	7	0	0
Honduras ditto, without glass panel.....	6	6	0

	£	s.	d.
Best Spanish Mahogany Cabinet, with glass panel, and to hold 750 objects	5	15	0
Honduras ditto, without glass panel	5	0	0
Best Spanish Mahogany Cabinet, with glass panel, and to hold 500 objects	4	4	0
Honduras ditto, without glass panel	3	10	0
Cabinets made to any size, and of every description.			
Cardboard Boxes, to hold two dozen objects ....each	0	1	0
Ditto ditto one dozen ditto .... „	0	0	9
Ditto ditto half dozen ditto .... „	0	0	6
Single Mahogany Racks, for objects ....per foot	0	0	6
Double ditto ditto .... „	0	1	0

INSTRUMENTS USED IN PREPARING OBJECTS.

Wood-cutting Machine with knife	1	1	0
Instrument for Cutting Circles of thin Glass	1	5	0
Diamond for Writing or Cutting thin Glass	0	7	6
Ditto for plate and window Glass	0	12	0
Instrument for making Cells of gold-size or other fluids ...	0	7	6
Page's Wooden Forceps, for holding the glass slides when warmed	0	2	6
Small Brass Tables and Lamps for heating objects in mounting ....from	0	10	6
Quekett's Forceps for deep jars	0	7	6
Ironwork of Dredge, for deep-water fishing	1	5	0
Small Collecting Bottles....per doz. 1s. 6d. to	0	3	0
Valentine's Knife, for making sections of soft substances ...	0	15	0
Small Dissecting Knives of various shapes ....each	0	3	0
Spring Scissors, 7s. 6d.; Curved ditto, 5s.; Straight ditto, 3s.			
Needle Holders, 5s.; Hooks, 2s. 6d.; Points, 2s. 6d.			
Cutting Forceps, 5s. 6d.; Spring ditto, 3s.			
Combination of three Lenses, mounted in Tortoiseshell, for pocket hand magnifiers	0	10	6
Ditto, with small brass stand	0	18	0
Coddington Lenses, in various mountings ....from	0	6	6

MATERIALS USED IN MOUNTING OBJECTS.

Canada Balsam, Asphalt, Gold Size, Glycerine, &c., 1s. and 2s. bottles.
Thin Glass, in circles, 6s. per oz.; in squares, 4s. per oz.; ditto, mixed, 5s.
Plate-glass Slips, 3 inches by 1 inch, with ground edges, 1s. per dozen.
Glass Cells, square, round, oblong, oval, and with solid bottoms, 2s. 6d. and 3s. per dozen.
Labels for covering objects, 3s. per hundred.

WOODWARD'S TABLE AND HYDRO-OXYGEN POLARISCOPE AND MICROSCOPE.

	£	s.	d.
Woodward's Table Polariscope and Microscope, with polarizing bundle, black glass, silvered reflector, and ground glass shade; large stage, with complete fittings, and two powers with rackwork motions, smaller stage for crystals; and box as stand, with complete fittings for apparatus	10	0	0
The above fitted as a Hydro-Oxygen Apparatus, with lantern, safety jet, bladders, and pressure boards; the Polariscope and Microscope Condensers, and an eyelens to adapt to the lowest power.....extra	15	0	0
Clock for the Movement of Lime Cylinder	4	4	0
Lime Cylinders .....per dozen	0	3	6
Tourmalines for the above instrument .....from	1	0	0
Selenite objects for ditto ..... „	0	5	0
Glass, Quartz, and other Prisms; together with all matters relating to Polarization.			

BOOKS.

Smith on the British Diatomaceæ, Vol. I.....	1	1	0
Quekett on the Microscope, 2nd Edition.....	1	2	0
Quekett's Lectures on Histology	0	10	6
Woodward on Polarized Light, 2nd Edition	0	3	0
Wythes on the Microscope	0	6	0
Hassall's British Freshwater Algæ, 2 vols.	2	5	0
Hassall's Microscopic Anatomy of the Human Body	2	5	0
Microscopic Quarterly Journal ..... each number	0	4	0

TELESCOPES.

1-foot Achromatic Telescope	1	12	0
20-inch Achromatic Telescope	2	10	0
20-inch Achromatic Telescope, 2 drawers, leather body.....	3	3	0
20-inch Achromatic Telescope, 1 drawer, leather body	2	2	0
2-feet Achromatic Telescope, 3 drawers	3	10	0
2-feet Achromatic Telescope, 8 drawers, portable	4	4	0
2-feet Achromatic Telescope, 8 drawers, portable, on brass tripod stand, in small mahogany case	6	0	0
30-inch Achromatic Telescope, 3 drawers	4	15	0
30-inch Achromatic Telescope, 3 drawers, on brass tripod stand, in mahogany case	9	0	0
3-feet Achromatic Telescope	6	6	0
3-feet Achromatic Telescope, on brass tripod stand in mahogany case.....	10	10	0
3-feet Achromatic Telescope, 1 terrestrial and 1 astronomical eye-piece, pillar and claw stand, and mahogany case ...	14	14	0

	£	s.	d.
3½-feet Achromatic Telescope, with finder, 1 terrestrial and 4 astronomical eye-pieces, on brass pillar and claw stand, with vertical and horizontal rack movements, and steadying-rods, in mahogany case	40	0	0
Ditto on improved stand	42	0	0
Mahogany stand for ditto and bolt	1	1	0
Universal Equatorial stand for ditto	30	0	0
Varley's Stand, mahogany with brass fittings	12	12	0

Larger Telescopes, with every variety of mounting, made to order.

SPECTACLES AND EYE-GLASSES.

Gold Spectacles, double joint	from	1	15	0	to	3	3	0
Gold Spectacles, single joint	„	1	10	0	to	3	0	0
Plated Spectacles	„	1	10	0				
Gold Folders	„	2	15	0	to	5	5	0
Plated Folders	„	2	0	0				
Gold Eye-frames	„	0	10	0	to	2	0	0
Plated Eye-frames	„	0	14	0				
Silver Spectacles and Folders	„	1	0	0				
Pearl or Tortoiseshell and Gold Hand-frames	„	4	4	0	to	5	5	0
Pearl or Tortoiseshell and Silver Hand-frames	„	1	1	0				
French Tortoiseshell and Silver Hand-frames	„	0	17	0				
Tortoiseshell Spectacles, double-joint						0	12	6
Tortoiseshell Spectacles, single-joint						0	10	6
Tortoiseshell Folders	from	0	7	0	to	0	18	0
Tortoiseshell Folders, with gold bridge						1	6	0
Tortoiseshell Eye-glasses	from	0	3	0	to	0	6	0
Fine Blue Steel Spectacles, double-joint						0	14	0
Fine Blue Steel Spectacles, single-joint						0	13	0
Common Blue Steel Spectacles	from	0	5	0				
Spectacles, with tinted glasses	„	0	11	0				
Horse-shoe Frames, with tinted glasses	„	1	1	0				
Railway Spectacles	„	0	14	0				
New Glasses to Spectacles, convex	per pair					0	3	0
New Glasses to Spectacles, concave	per pair					0	4	0
Double for Brazilian Pebbles.								
Spectacle Cases	from					0	1	0

Reading Glasses of every variety	from	0	3	0	to	2	2	0
Opera Glasses, Race Glasses, Horizon Sweeps, &c. &c.	„	0	12	0	to	9	9	0

STEREOSCOPES.

	£	s.	d.
Best Spanish Mahogany Stereoscope on improved plan, with set of diagrams	1	10	0
Satinwood Stereoscope, and Diagrams	0	17	6
Mahogany Stereoscope, and Diagrams	0	15	0
Tin Stereoscope, and Diagrams	0	5	0
Photographic Views on glass ..... each	0	10	6
Daguerreotypes ..... from 0 7 6 to	0	12	6
Talbotypes ..... „ 0 2 6 to	0	5	0
Diagrams, &c. &c.			
Spanish Mahogany Box to hold 2 stereoscopes and 24 slides	2	2	0
Spanish Mahogany Box to hold 1 stereoscope and 32 slides..	2	2	0
Spanish Mahogany Box to hold two dozen slides	1	4	0

CASES FOR STEREOSCOPES AND SLIDES MADE TO ORDER.

DRAWING INSTRUMENTS, &c.

Wollaston's Camera Lucida, mounted .... from 1 10 0 to					3	0	0
Drawing Instruments for school use ..... from					0	7	6
Ditto	ditto	in mahogany case			1	5	0
Ditto	ditto	in superior case, 3 ivory rules			3	5	0
Ditto	ditto	ditto	in electrum		3	15	0
Ditto	ditto	ditto	ditto	double-jointed	6	0	0
Beam Compasses ..... from					1	15	0
12-inch Ivory Plotting Scales ..... from 0 7 6 to					1	0	0
12-inch Boxwood Plotting Scales, set of 3, with offsets					0	11	0
Ivory Folding Rules ..... from					0	6	0
Boxwood Folding Rules ..... „					0	1	0
Plain Ebony Parallel Rules ... . „					0	4	0
Plain Rolling Ebony Parallel Rules..... „					0	9	0
Ivory-edged and graduated Parallel Rules ..... per inch					0	1	6

BAROMETERS, THERMOMETERS, &c.

Pediment Barometers ..... from	3	0	0
Pediment Barometer, best, with float gauge	9	0	0
Wheel Barometers ..... from	2	2	0
Standard Thermometer ..... „	2	10	0
Negretti's Maximum Thermometer	1	1	0
Six's Self-registering Thermometer	1	10	0
Horizontal Self-registering Thermometer.....	0	17	0
Boxwood Thermometers ..... from	0	3	6
Simmons's Hygrometer	2	2	0

RAIN GAUGES TO ORDER.

AIR-PUMPS AND ELECTRICAL MACHINES

TO ORDER.