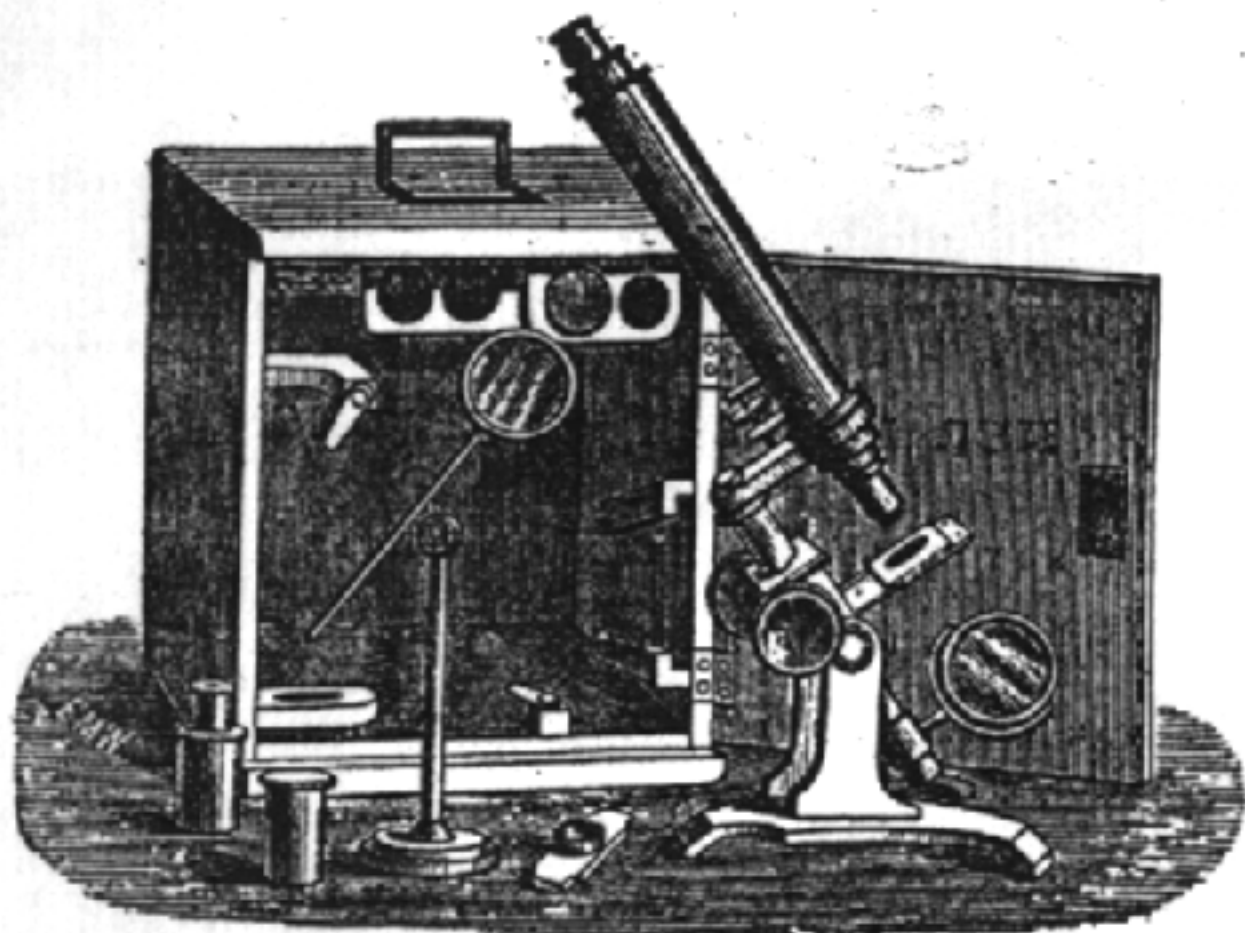


CATALOGUE
OF
SCIENTIFIC INSTRUMENTS.

PART I.



MICROSCOPES, & Co.



JAMES HOW,

*Upwards of Twenty Years with, and
Successor to,*



GEORGE KNIGHT & SONS,

2, FOSTER LANE, LONDON.

JAMES HOW,

UPWARDS OF TWENTY YEARS WITH, AND SUCCESSOR TO,

GEORGE KNIGHT & SONS,

Chemical and Philosophical Instrument Makers

TO

HER MAJESTY THE QUEEN,

THE ROYAL INSTITUTION OF GREAT BRITAIN,

THE ROYAL OBSERVATORY, GREENWICH,

THE WAR OFFICE, THE BOARD OF ORDNANCE, THE ADMIRALTY,

THE EAST INDIAN GOVERNMENT,

THE GOVERNMENTS OF RUSSIA, SPAIN, THE BRAZILS, ETC.,

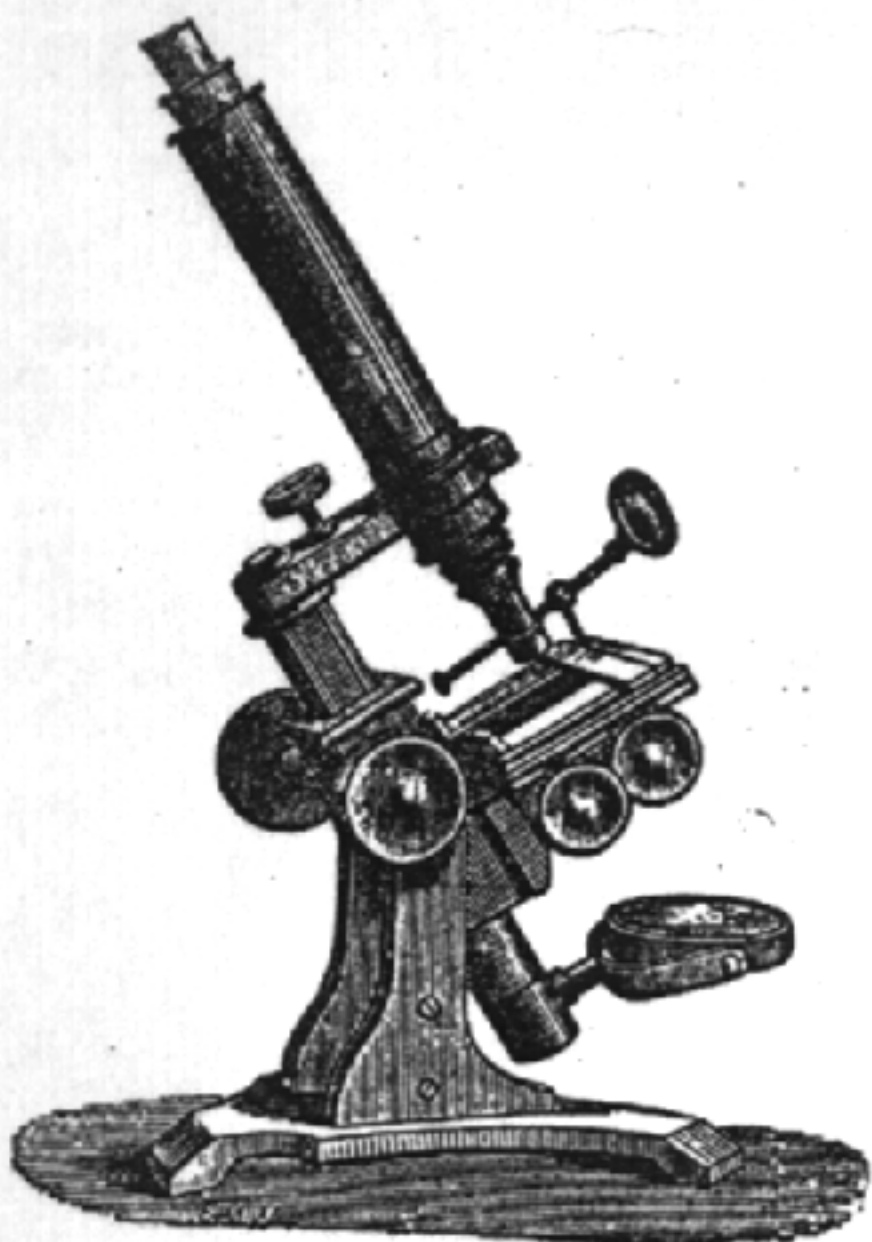
THE GOVERNMENT SCHOOL OF MINES,

THE PHARMACEUTICAL SOCIETY OF GREAT BRITAIN,

THE UNIVERSITIES OF OXFORD, CAMBRIDGE, LONDON, ETC.,

2, FOSTER LANE, LONDON.

CATALOGUE.



COMPOUND MICROSCOPES.

COMPOUND MICROSCOPE STAND.

	£	s.	d.
No. 1.—With rotating stage, having $\frac{1}{2}$ -inch motion in rectangular directions, coarse and fine adjustments to body, graduated draw-tube, secondary stage with universal motion for adjusting all the illuminating and polarizing apparatus placed beneath the object, two eye-pieces A and B, plain and concave mirrors ..	25	0	0
No. 1A.—The same, with binocular arrangement, and two pairs of eye-pieces	32	0	0

JAMES HOW, 2, FOSTER LANE, LONDON.

COMPOUND MICROSCOPE STAND.

	£	s.	d.
No. 2.—Smaller than the above, with rotating stage, having $\frac{1}{4}$ -inch motion in rectangular directions, coarse and fine adjustments to body, draw tube, two eye-pieces A and B, plain and concave mirrors	18	0	0
No. 2A.—The same, with binocular arrangement, and two pairs of eye-pieces	25	0	0

COMPOUND MICROSCOPE STAND.

No. 3.—With rotating stage, having $\frac{1}{2}$ -inch motion in rectangular directions, coarse and fine adjustments to body, two eye-pieces A and B, plain and concave mirrors	14	0	0
No. 3A.—The same, with binocular arrangement, and two pairs of eye-pieces	20	0	0

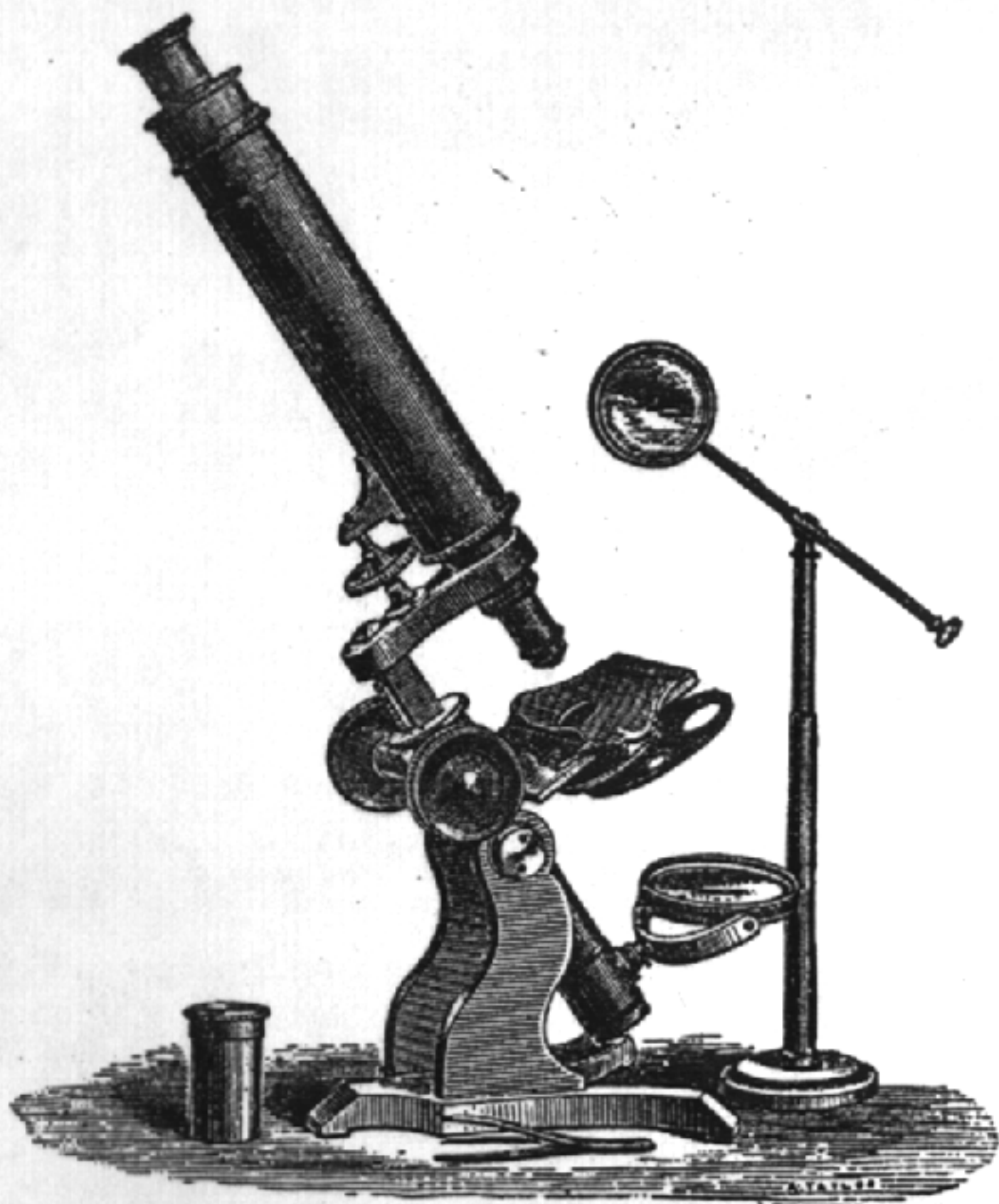
COMPOUND MICROSCOPE STAND.

No. 4.—With sliding stage, coarse and fine adjustment to body, two eye-pieces A and B, plain and concave mirrors	5	0	0
No. 4A.—The same, with binocular arrangement, and one pair of eye-pieces	10	0	0
No. 4B.—The same, without fine adjustment	8	10	0

 HOW'S

 NEW STUDENTS' MICROSCOPE.

No. 5.—An excellent instrument, of good workmanship, suitable for all ordinary microscopic investigations; the stand is of brass, and exceedingly firm; the body is fitted with coarse and fine adjustment for focussing; there is a draw tube for increasing the magnifying power of the eye-piece, and the stage has an arrangement, of simple and elegant construction, by which a universal movement may be obtained, enabling the microscopist to follow living objects with great facility. This arrangement is so perfect that it may supersede the more expensive mechanical stage for all ordinary purposes. The object glass supplied is a combination of three powers (of English manufacture), respectively $\frac{1}{4}$, $\frac{1}{2}$, and 1 inch. There is also a condenser on brass stand for the illumination of opaque objects, and the whole is fitted in a neat polished mahogany case, with drawer for objects	5	5	0
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HOW'S NEW STUDENTS' MICROSCOPE.

From a Photograph by E. W. Foxlee.

JAMES HOW, 2, FOSTER LANE, LONDON.

THE FOLLOWING APPARATUS CAN BE ADDED.

	£	s.	d.
Eye-piece A	0	10	0
Ditto C	0	12	0
Camera Lucida	0	12	0
Polarizing Apparatus and Selenite	1	5	0
Spot Lens, for dark-ground illumination	0	7	0
Eye-piece with Micrometer	0	15	0
Stage Micrometer	0	6	0
Animalculæ Cage	0	3	6
Stage Forceps	0	3	0
Frog Plate	0	6	6

THE CABINET MICROSCOPE.

No. 6.—A Compound Achromatic Microscope, with coarse and fine adjustment to body, draw tube, rectangular motions to stage by rack and pinion, also rotating movement, plain and concave mirror, two eye-pieces A and B, 1-inch, $\frac{1}{2}$ -inch, and $\frac{1}{4}$ -inch object glasses in brass boxes, polarizing apparatus and selenite stage, spot lens for dark-ground illumination, condensing lens on stand, camera lucida, brass frog plate, animalculæ cage, stage forceps, brass forceps, &c.; the whole fitted in elegant brass-bound mahogany case, with drawer for objects, &c.

20	0	0
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EDUCATIONAL MICROSCOPE.

No. 7.—With sliding stage, eye-piece, $\frac{1}{4}$ -inch and 1-inch object glasses, condenser on stand, stage forceps, &c.; in mahogany case, with drawer, lock and key

4	4	0
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EDUCATIONAL BINOCULAR MICROSCOPE.

No. 7A.—With sliding stage, $\frac{1}{4}$ -inch and $1\frac{1}{2}$ -inch object glasses, condenser on stand, &c., in mahogany case

6	6	0
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SMALL COMPOUND ACHROMATIC MICROSCOPE,

With iron foot, inclinable body, and rackwork adjustment, sliding stage, diaphragm plate, one eye-piece, triple achromatic object glass, condenser on stand, live box; in mahogany case, with drawer, lock and key

2	12	6
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SMALL COMPOUND ACHROMATIC MICROSCOPE,

Of more simple construction £1 5s., £2 2s., and

2	5	0
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PORTABLE COMPOUND ACHROMATIC MICROSCOPE,

With inclinable body, ball and socket joint, achromatic object glasses, and brass forceps; in neat leather case for the pocket, measuring $6\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$ inches 1 5 0

QUEKETT'S DISSECTING MICROSCOPE,

With rackwork adjustment, 1-inch and $\frac{1}{2}$ -inch lenses, and $\frac{1}{4}$ -inch Coddington and condenser 2 12 6
 Body and eye-piece to convert the above into a Compound Microscope 1 0 0

ACHROMATIC OBJECT GLASSES.

FIRST CLASS.

Object Glasses.	Angular Aperture.	Magnifying Power with the various Eye-pieces.				Price.	Liberkahn.
		A.	B.	C.	D.		
2-inch	15 degrees	20	30	40	60	£ 2 10 0	£ 1 0 0
1½ "	20 "	40	55	70	90	2 15 0	0 15 0
1 "	25 "	60	80	100	120	3 3 0	0 15 0
¾ "	65 "	100	130	180	220	4 4 0	0 10 6
½ "	95 "	220	350	500	620	4 4 0	0 10 0
¼ "	135 "	320	510	700	910	6 0 0	
⅓ "	150 "	400	670	900	1200	7 7 0	

SECOND CLASS.

Object Glasses.	Angular Aperture.	Price.
3-inch	6 degrees	£ 1 1 0
2 "	10 "	1 1 0
1 "	15 "	1 1 0
¾ "	40 "	2 2 0
½ "	75 "	2 2 0
¼ "	100 "	4 0 0
⅓ "	120 "	5 0 0

JAMES HOW, 2, FOSTER LANE, LONDON.

APPARATUS FOR COMPOUND MICROSCOPES.

	£	s.	d.
Eye-pieces A, B, C, and D each	0	15	0
Ditto ditto for No. 4 Microscope	0	10	0
Kelner's Orthoscopic Eye-piece	1	1	0
Erecting Eye-piece for dissecting with the Compound Microscope	0	17	6
Micrometer Eye-piece	1	5	0
Stage Micrometer	0	6	0
Large Condenser, on stand, with double motions	1	5	0
Condenser, on stand 12/6, 15/, and	1	0	0
Stage Condenser, with double joints	0	17	0
Side Reflector, for illuminating opaque objects	1	5	0
The New Parabolic Illuminator, for opaque objects, in brass box	1	1	0
Polarizing Apparatus for No. 1 Microscope	2	10	0
Ditto ditto 1A ditto	3	5	0
Ditto ditto 2 ditto	1	15	0
Ditto ditto 2A ditto	2	15	0
Ditto ditto 3 ditto	1	5	0
Ditto ditto 3A ditto	2	15	0
Ditto ditto 4 ditto	1	4	0
Ditto ditto 4A & B ditto	1	15	0
Selenite Stages for ditto from	0	2	0
Darker's Revolving Selenite Stage, and set of three Selenites, in brass box	2	3	6
Gillett's Achromatic Condenser, with revolving diaphragms and stops	6	6	0
Plain Achromatic Condenser	2	2	0
The Rev. Charles Kingsley's Illuminator, in setting, with diaphragms	3	3	0
Rainey's Light Modifier	0	7	0
Parabolic Condenser, for dark-ground illumination 25/ and	1	12	0
Spotted Lens for ditto 6/6, 10/6, and	0	14	0
Lister's Dark Wells and Fittings	0	14	0
Animalculæ Cages 4/6, 6/6, 10/6, and	0	14	0
Stage Forceps 3/ to	0	7	6
Woolaston's Camera Lucida 20/ and	1	14	0
Neutral Tint Reflector (for drawing)	0	6	6
Lever Compressorium, large	1	11	6
Ditto smaller	0	17	6
Ditto for use with high powers	0	8	6
Brass Frog Plate	0	12	6
Maltwood's Finder	0	6	6
Brass Stage Plate, for use with same	0	2	6
Brook's Double Nose-piece, for rapidly changing the object glasses	1	10	0
Brass Forceps from	0	1	0

MAHOGANY CABINETS.

For No.	1	2	3	4	Microscope, with drawers for apparatus	£	s.	d.
					.. ..	6	0	0
	Ditto	ditto	ditto	ditto	.. ..	3	3	0
	Ditto	ditto	ditto	ditto	.. ..	2	10	0
	Ditto	ditto	ditto	ditto	.. ..	1	10	0

APPARATUS, &c.,

FOR COLLECTING, PREPARING, AND MOUNTING OBJECTS.

Glass Slips, 3 inches \times 1 inch	per doz.	0	1	0
Ditto ditto	per packet of three doz.	0	2	6
Dished Glasses, 3 inches \times 1 inch	per doz.	0	3	0
Ditto large size, for dissecting	each	0	2	6
Glass Stage Plates	each from	0	0	9
Dissecting Troughs .. .. .	.. .. .	0	2	6
Glass Rings for making cells	per doz. from	0	2	6
Thin Glass Squares	per oz.	0	4	0
Ditto Circles .. .. .	.. .. .	0	6	0
Zoophyte Trough	each	0	5	0
Glass Trough for fish .. .. .	.. .. .	0	7	6
Page's Wood Forceps .. .. .	.. .. .	0	2	6
Whirling Table, for making cells, finishing slides, &c. .. .. .	.. .. .	0	7	6
Machine for cutting Sections of Wood, &c. .. .. .	.. .. .	1	1	0
Chisel for use with same .. .. .	.. .. .	0	2	6
Scalpels, with ivory handles, large and small	each	0	2	0
Steel Forceps, curved and straight .. .. .	.. .. .	0	3	0
Scissors, various	from	0	2	6
Microtome	each	0	5	6
Valentin's Knife, in case .. .. .	.. .. .	0	17	6
Set of Instruments, consisting of two scalpels, setting needle, steel forceps, and scissors, in neat morocco case, for the pocket .. .. .	.. .. .	0	18	0
Brass Syringe, with stopcock, for making injections, 1 oz. size .. .. .	.. .. .	0	8	6
Ditto ditto ditto 2 ditto .. .. .	.. .. .	0	10	6
Nose-pieces, with silver tubes of different sizes, for either of the above	each	0	1	6
Air Pump and Receiver, for preparing objects	from	1	5	0
Brass Table and Spirit Lamp, for mounting objects .. .. .	.. .. .	0	6	6
Writing Diamond .. .. .	.. .. .	0	7	6
Cutting Diamond .. .. .	.. .. .	0	16	0
Papers for covering microscopic objects	per 100	0	1	6
Forceps attached to a stick, for holding a bottle to collect animalculæ, &c. .. .. .	.. .. .	0	4	6
Forceps alone .. .. .	.. .. .	0	2	0
Collecting Bottles	per doz. from	0	1	6
Metal Ring, to hold temporary net of gauze to screw into same stick as forceps .. .. .	.. .. .	0	2	0

SUNDRIES

USEFUL TO THE MICROSCOPIST.

						£	s.	d.
Glass Spirit Lamps (with stoneware wick holders) ..	from					0	1	3
Ditto ditto (with brass wick holders) 1½ oz.,	1/9;							
	3 oz., 2/; 4 oz.,					0	2	6
Retort Stands	2/6, 3/6, and					0	6	6
Test Tubes, hard German glass:								
Length, inches:	2	3	4	5	6			
Per dozen:	7/9	1/	1/3	1/6	2/			
Test Tube Stands, mahogany, for 6 tubes						0	2	0
Ditto ditto ditto 16 ditto						0	4	0
Ditto ditto ditto 8 ditto and pegs						0	3	0
Berlin Porcelain Dishes (flat bottoms):								
Diameter, inches:	2½	3	3½	4	5	6	7	
Each:	-/6	-/9	-/10	1/	1/3	1/6	1/10	
Berlin Porcelain Crucibles and Covers:								
Diameter, inches:	1	1½	1½	1½	2½			
Each:	-/4	-/6	-/8	-/11	1/2			
Watch Glasses	per doz. from					0	2	0
Pipettes	each 3d. and					0	0	6
Conical Test Glasses	1 oz., 6d.; 3 oz., 7d.; 4 oz.,					0	0	9
Small Bottles, with capillary orifices and caps ..	each					0	1	0
Wash Bottles	per bottle					0	1	6
Asphalt Varnish	per bottle					0	0	6
Glycerine Jelly	"					0	1	0
Canada Balsam	"					0	1	0
Gold Size	"					0	1	0
Pure Glycerine	"					0	1	0

SIMPLE MICROSCOPES.

POCKET LENSES.

						£	s.	d.
In horn case, with 1 power						0	2	0
Ditto 2						0	3	0
Ditto 3						0	3	6

POCKET LENSES.

	£	s.	d.
In tortoiseshell case, with 1 power	0	4	6
Ditto ditto 2 ,,	0	8	0
Ditto ditto 3 ,,	0	10	6
Of best make, with diaphragm	0	15	0
With 2 powers, and Coddington lens	0	12	6

CODDINGTON LENS.

Mounted in ivory	0	3	6
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STANHOPE LENS.

Mounted in ivory	0	2	6
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CODDINGTON LENS.

Mounted in German silver, with twisted handle	0	4	6
In German silver, shut-up case from	0	7	6
In silver case ,,	0	10	6

SEED MICROSCOPE.

With tripod stand and screw adjustment	0	2	6
With bell-shaped glass body	0	4	6
Linen Provers from	0	1	6

MICROSCOPE LAMPS.

	£	s.	d.
Improved Paraffin Lamp, with adjusting stand	0	15	0
Argand Gas Lamp, with blue glass, shade, and apparatus for mounting	2	10	0
Simple Argand Gas Lamp	1	6	0
Argand Oil Lamp	1	15	0

MICROSCOPIC OBJECTS.

VEGETABLE.

	£	s.	d.
Sections of Wood (exogenous and endogenous), Cuticles, Spiral Vessels, Ducts, Glands, Hairs, Pollen, Spores, Seeds, &c. each, from	0	1	0
Sections of Fossil Wood, Coal, &c. (various)	0	1	6
Diatomaceæ (recent and fossil)	0	1	0
Test Objects	0	1	0

ANIMAL.

Foramonifera and Polycistina	0	1	0
Sponges (sections of), Spicules, Gemmules, &c.	0	1	0
Zoophytes (in fluid, with expanded tentacles): Bugula, Tubularia, Sertularia, Campanularia, Flustra, &c., &c.	0	1	6
Spicules of Gorgonia, Alcyonia, &c.	0	1	0
Sections exhibiting the Structure of Shell	0	1	6
Palates of Mollusca	0	1	0
Echinus Spines (sections of)	0	1	6
Spicules of Chirodota, Synapta, &c.	0	1	0
Insects (mounted whole)	0	1	6
Insects (parts of): Antennæ, Tongues, Heads, Feet, Wings, Scales, Spiracles, Tracheæ, Stomachs, &c., &c.	0	1	0
Sections of Bones of Mammals, Birds, Reptiles, and Fish (recent and fossil)	0	1	6
Sections of Teeth (recent and fossil)	0	1	6
Blood Discs, Pigment-Cells, &c.	0	1	0
Anatomical Injected preparations (transparent)	0	1	6
Ditto ditto (opaque)	0	2	0
Urinary Deposits, &c.	0	1	6

MINERAL.

Sections of Flint, Agate, Limestone, Granite, &c.	0	1	6
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POLARISCOPE.

Crystals of various Salts, objects selected from various animal, vegetable, and mineral preparations	0	1	0
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CABINETS FOR MICROSCOPIC OBJECTS.

MAHOGANY CABINET.

						£	s.	d.
To contain 300 objects (flat), in 19 drawers; each drawer has a numbered ivory knob, and two porcelain labels for writing on, with door and handles						3	10	0
Ditto	ditto	500	objects, in 21 drawers	..	..	4	10	0
Ditto	ditto	750	.. 28 ..	..	..	5	10	0
Ditto	ditto	1,000	.. 28 ..	..	..	6	10	0
Best Spanish Mahogany Cabinet, with glass door, to contain 300 objects, in 19 drawers						4	4	0
Ditto	ditto	500	objects, in 21 drawers	..	..	5	10	0
Ditto	ditto	750	.. 28 ..	..	..	6	15	0
Ditto	ditto	1,000	.. 28 ..	..	..	7	10	0

DEAL CABINET,

WITH DRAWERS, IN WHICH THE OBJECTS LIE FLAT.

To contain 250 objects						1	15	0
Ditto	500	..	..	..	..	2	10	0
Ditto	750	..	..	..	..	3	0	0
Ditto	1,000	..	..	..	..	3	12	0

MAHOGANY BOX,

WITH RACK.

To contain 3 dozen objects						0	5	0
Ditto	6	..	lock and key	..	..	0	10	6
Ditto	12	..	..	..	..	0	17	6

DEAL BOX,

COVERED WITH CLOTH.

To contain 1 dozen objects						0	0	6
Ditto	2	..	..	..	..	0	1	0
Ditto	3	..	..	..	..	0	1	6
Ditto	6	..	..	..	..	0	2	6
Ditto	12	..	..	..	..	0	5	0

WORKS ON MICROSCOPY.

	£	s.	d.
BRALD, DR., F.R.S. <i>How to Work with the Microscope</i> ..	0	12	6
" <i>Tissues</i> " <i>On the Structures and Growth of the</i>	0	5	0
BOWMAN, DR. J. E. <i>Medical Chemistry</i>	0	6	6
CARPENTER, DR., F.R.S. <i>The Microscope and its Revelations</i>	0	12	6
COOK, M. C. <i>Microscopic Fungi</i>	0	6	0
CLARKE, MRS. J. L. <i>Text Book of Objects for the Microscope</i>			
DAVIES, J. <i>The Preparation and Mounting of Microscopic</i> <i>Objects</i>	0	2	6
GRIFFITH & HENFREY. <i>Micrographic Dictionary</i>	2	5	0
GRIFFITH, DR., F.L.S. <i>Text Book of the Microscope</i> ..	0	7	6
GOSSE, P. H., F.R.S. <i>Evenings at the Microscope</i>	0	6	0
GRAY, DR. J. E., F.R.S. <i>Handbook of British Water Weeds</i> <i>and Alga.</i> The Diatomaceæ by W. CARRUTHERS ..	0	3	6
HOGG, DR. JABEZ. <i>The Microscope, its History, Construction,</i> <i>and Teachings</i>	0	6	0
KÖLLIKER, PROF. <i>Manual of Human Microscopic Anatomy.</i> Translated by DR. CHANCE	1	4	0
LARDNER, DR. <i>The Microscope</i>	0	2	0
LANKESTER, DR., F.R.S. <i>Half Hours with the Microscope</i> ..	0	2	6
" " <i>ditto</i> (with Coloured Plates) ..	0	4	0
PRITCHARD, DR. A. <i>A History of Infusoria, including the</i> <i>Desmidiæ and Diatomaceæ</i> 3s/6, Coloured Plates	2	10	0
QUEKETT, PROF. <i>Practical Treatises on the Microscope</i> ..	1	1	0
SCHACHT. <i>The Microscope and its Application to Vegetable</i> <i>Anatomy and Physiology</i> (by F. CURREY, M.A., ..	0	6	0
SLACK, H. J. <i>Marvels of Pond Life</i>	0	5	0
WYTHES, DR. <i>The Microscope</i>	0	6	0
WOOD, REV. J. G. <i>Common Objects of the Microscope</i> ..	0	1	0
" " <i>ditto</i> (with Coloured Plates) ..	0	2	6
WARD, HON. MRS. <i>Microscopic Teachings</i>	0	7	6

APPARATUS FOR MEDICO-CHEMICAL ANALYSIS.

DR. BEALE'S CABINET,

	£	s.	d.
Containing the following Apparatus and Re-agents for analysis in Medical Chemistry: urinometer, graduated glass for ditto, spirit lamp, test tubes and holder, blowpipe, platinum wire and foil, watch glasses, pipette, test papers, glass slips, thin glass, dished glasses, and 8 capped dropping bottles, containing the following re-agents—nitric acid, acetic acid, ammonia, potash, nitrate baryta, nitrate silver, oxalate ammonia	2	2	0
Mahogany case, containing 20 stoppered tube bottles, and 2 capped dropping bottles	1	1	0

No. 1 CHEST.—£10 10s.

Containing the whole of the Apparatus and Re-agents described in the "Guide to Urinary Analysis," by ROBERT VENABLES, A.M., M.B., Incep. Candidate Royal College of Physicians, Physician to the Diabetic Dispensary, Lecturer on Forensic Medicine, &c., viz.:—

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. Prout's Urinometer. 2. Glass for ditto. 3. Thermometer. 4. Specific Gravity Bottle and Counterpoise Weight. 5. Scales and Decimal Grain Weights, with Brass Support. 6. Portable Sand or Water Bath. 7. Argand Oil Lamp. 8. Nest Glass Beakers. 9. Three Small Glass Flasks. 10. Nest of Berlin Porcelain Dishes. 11. Glass Evaporating Dishes. 12. Berlin Ware Crucible. | <ol style="list-style-type: none"> 13. Retort Stand and 3 Sliding Rings. 14. Two Filtering Funnels and Paper for ditto. 15. Filter Dryer. 16. Test Tube Rack and Tubes. 17. Glass Pipette. 18. Test Tube and Watch Glass Holder. 19. Blowpipe. 20. Lamp for ditto. 21. Platina Forceps, Spoon, Foil, and Wire. 22. Magnifying Glass. 23. Sulphuretted Hydrogen Bottle and Tube. 24. Two Precipitating Glasses. |
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CHEMICAL RE-AGENTS.

IN WELL-STOPPERED BOTTLES; THOSE CONTAINING THE CORROSIVE ACIDS FITTED WITH GLASS CAPS.

- | | |
|------------------------|---------------------------------|
| 1. Sulphuric Acid. | 11. Sulphuric Ether. |
| 2. Nitric ditto. | 12. Acetate Lead. |
| 3. Hydrochloric ditto. | 13. Pure Potassa. |
| 4. Oxalic ditto. | 14. Sulphate Copper. |
| 5. Acetic ditto. | 15. Carbonate Soda. |
| 6. Tartaric ditto. | 16. Nitrate Silver. |
| 7. Alcohol. | 17. Ferrocyanide of Potassium. |
| 8. Ammonia. | 18. Permanganate of Potash. |
| 9. Oxalate Ammonia. | 19. Sulphuret of Iron. |
| 10. Nitrate Barium. | 20. Litmus and Turmeric Papers. |

No. 2 CHEST.—£5 15s. 6d.

This, though less complete than the No. 1, contains most of the essential Apparatus and Re-agents, viz. :—

- | | |
|----------------------------------|----------------------------------|
| Prout's Urinometer. | Filtering Funnel and Paper. |
| Glass for ditto. | Test Tube Rack, and Tubes. |
| Thermometer. | Glass Pipette. |
| Glass Beaker. | Test Tube and Watch Glass |
| Spirit Lamp. | Holder. |
| Two Glass Flasks. | Blowpipe. |
| Nest of Berlin Porcelain Dishes. | Platina Forceps, Foil, and Wire. |
| Three Glass Evaporating Dishes. | Magnifying Glass. |
| Retort Stand and three Sliding | Test Papers. |
| Rings. | |

CHEMICAL RE-AGENTS,

IN WELL-STOPPERED BOTTLES; THOSE CONTAINING THE CORROSIVE ACIDS FITTED WITH GLASS CAPS.

- | | |
|--------------------|----------------------------|
| Nitric Acid. | Ammonia. |
| Hydrochloric Acid. | Oxalate Ammonia. |
| Acetic Acid. | Ferrocyanide of Potassium. |
| Pure Potassa. | Sulphate Copper. |

JAMES HOW, 2, FOSTER LANE, LONDON.

POCKET CASES,
MOUNTED IN LEATHER AND LINED WITH VELVET.

No. I.—£2 2*s.*—containing,

Urinometer. Glass for ditto. Thermometer. Pipette. Test Tubes. Watch Glasses.		Holder for ditto. Spirit Lamp. Five Stopped and Capped Bottles for Tests. Litmus and Tumeric Papers.
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No. II.—£1 10*s.*

Urinometer. Glass for ditto. Thermometer. Pipette. Test Tubes.		Watch Glasses. Holder for ditto. Spirit Lamp. Two Stopped and Capped Bottles.
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No. III.—£1 1*s.*

Urinometer. Glass for ditto. Thermometer.		Pipette. Capped and Stopped Bottle. Test Papers.
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No. IV.—15*s.*

Urinometer. Glass for ditto.		Thermometer. Test Papers.
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No. V.—7*s.* 6*d.*

Urinometer, Glass, and Test Papers.

—
Any of the above Instruments may be had separate.

ASTRONOMICAL TELESCOPES.

5-FEET 6-INCH ACHROMATIC TELESCOPE

4½-inch aperture, six astronomical eye-pieces, the powers £ s. d.
 ranging from 50 to 400 diameters, reflecting prism, &c.,
 on equatorial stand 100 0 0

42-INCH ACHROMATIC TELESCOPE

Mounted on pillar, with claw stand, 3-inch object glass,
 vertical rackwork motion, rack and pinion adjustment to
 eye-piece, finder, one terrestrial and three astronomical
 eye-pieces, in mahogany case 32 0 0

JAMES HOW, 2, FOSTER LANE, LONDON.

36-INCH ACHROMATIC TELESCOPE.

	£	s.	d.
On pillar with claw stand, 2½-inch object glass, vertical rackwork motion, rack and pinion adjustment to eye-piece, finder, one terrestrial and two astronomical eye-pieces, in mahogany case	25	0	0

30-INCH ACHROMATIC TELESCOPE.

Mounted on pillar with claw stand, 2½-inch object glass, vertical rackwork motion, rack and pinion adjustment to eye-piece, one terrestrial and one astronomical eye-piece, in mahogany case	15	0	0
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24-INCH ACHROMATIC TELESCOPE.

Mounted on pillar with claw stand, vertical rackwork motion, rack and pinion adjustment to eye-piece, one terrestrial and one astronomical eye-piece, in mahogany case ..	10	0	0
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 PORTABLE TELESCOPES.

ACHROMATIC TELESCOPE,

THE BODY OF MAHOGANY OR LEATHER.

	£	s.	d.
12-inch, 3-draw	1	5	0
18 " 3 "	1	10	0
24 " 3 "	2	5	0
30 " 3 "	3	10	0
14 " 2 " (leather body)	1	5	0

ACHROMATIC TOURIST TELESCOPES,

BODY AND CAPS LEATHER, WITH SLING STRAP.

12-inch, 3-draw	1	10	0
18 " 3 "	2	5	0
24 " 3 "	2	15	0
24 " 4 "	3	3	0
16 " 2 " (with large object glass)	2	2	0

OPERA GLASSES.

ACHROMATIC BINOCULAR OPERA GLASS.

						£	s.	d.	
Leather body, 6 lenses, $1\frac{1}{4}$ -inch object glass, in case						..	1	8	0
Ditto	ditto	$1\frac{1}{4}$	"	ditto	ditto	..	1	11	6
Ditto	ditto	$1\frac{1}{4}$	"	ditto	ditto	..	1	18	6

ACHROMATIC BINOCULAR OPERA GLASS.

Leather body, 12 lenses, $1\frac{1}{4}$ -inch object glass, in case						..	2	5	6
Ditto	ditto	$1\frac{1}{4}$	"	ditto	ditto	..	2	10	0
Ditto	ditto	$1\frac{1}{4}$	"	ditto	ditto	..	2	18	0

ACHROMATIC BINOCULAR OPERA GLASS.

Ivory body and gilt mountings, 12 lenses, $1\frac{1}{4}$ -inch object glasses, in case						..	2	15	0
Ditto	ditto	$1\frac{1}{4}$	-inch	ditto	ditto	..	3	3	0
Ditto	ditto	$1\frac{1}{4}$	"	ditto	ditto	..	3	15	0

ACHROMATIC BINOCULAR OPERA GLASS.

Leather body and gilt mountings, 12 lenses, $1\frac{1}{4}$ -inch object glasses, in case						..	2	10	0
Ditto	ditto	$1\frac{1}{4}$	-inch	ditto	ditto	..	2	16	0
Ditto	ditto	$1\frac{1}{4}$	"	ditto	ditto	..	3	10	0

FIELD GLASSES.

ACHROMATIC BINOCULAR FIELD OR RACE GLASS.

						£	s.	d.	
Leather body, japanned mountings, with sun shades, 6 lenses, $1\frac{1}{4}$ -inch object glasses						..	2	2	0
Ditto	ditto	$1\frac{1}{4}$	-inch	ditto	ditto	..	2	6	0
Ditto	ditto	$1\frac{1}{4}$	"	ditto	ditto	..	2	12	0
Ditto	ditto	$2\frac{1}{4}$	"	ditto	ditto	..	3	3	0
Ditto	ditto	$2\frac{1}{4}$	"	ditto	ditto	..	3	10	0

ACHROMATIC BINOCULAR FIELD OR RACE GLASS.

							£	s.	d.
*Leather body, japanned mountings, with sun shades, 12 lenses, 1½-inch object glasses						..	2	12	6
*Ditto	ditto	1¼-inch	ditto	..	..	..	2	16	0
Ditto	ditto	1½ "	ditto	..	..	..	2	12	6
Ditto	ditto	1¾ "	ditto	..	..	..	3	3	0
Ditto	ditto	1¾ "	ditto	..	..	..	3	10	0
Ditto	ditto	2¼ "	ditto	..	..	..	4	5	0
Ditto	ditto	2½ "	ditto	..	..	..	5	0	0
Leather Sling Cases for the above Field Glasses				..	each		0	12	6

* A soft leather case is included with each of these.

BINOCULAR OPERA, FIELD, AND MARINE GLASS.

These contain three series of lenses, of different powers, adapting them either for the opera, field, or sea-side, with a simple and elegant contrivance by which they may instantly be altered to suit either of the above purposes; with leather body, 1½-inch object glass, in sling case

..	..	..	..	..	..	..	4	10	0
Ditto	ditto	1½-inch	ditto	..	..	..	4	14	6

THE UNIVERSAL BINOCULAR FIELD GLASS.

Leather body, japanned slides, sun shades, 1½-inch object glass, in sling case	1	5	0
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