

TRADE LIST

OF

Microscopes & Microscopic Objects,

SOLD BY

SPENCER, BROWNING & CO.,

111, MINORIES, LONDON.



1857.



LONDON :

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TRADE LIST
OF
SPENCER, BROWNING & CO.,
111, MINORIES, LONDON.

January, 1857.

MICROSCOPES.

	£	s.	d.
Stanhope Lens, German silver, in morocco case	0	2	6

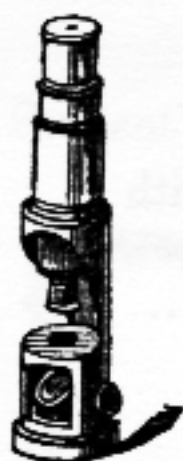


Fig. 36.

Compound Microscope, with sliding tube adjustment, mirror, eye-piece and magnifying power, forceps, and one microscopic object in mahogany box. Fig. 36	0	5	6
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Ditto with 2 magnifying powers, and 2 objects. Fig. 36	0	7	6
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Fig. 37.

Ditto larger, with 3 magnifying powers, and a mounted lens for condensing the rays of light on an opaque object. Fig. 37	0	12	6
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Achromatic Microscopes, similar to No. 37, but of larger size, and with a set of achromatic lenses. Fig. 37	1	10	0
Ditto larger, with tripod foot and vertical pillar, etc., complete set of apparatus, and a set of achromatic object glasses, with rack-work and fine adjustment	1	15	0

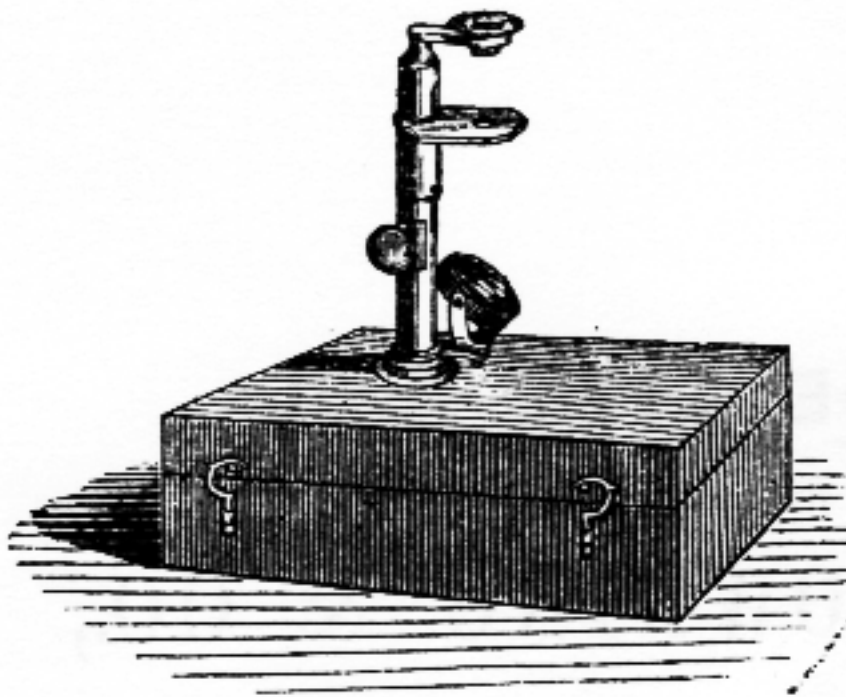


Fig. 38.

Simple Microscope, with
rack-movement, mir-
ror, 3 powers, tweezers,
glass slide, and 2 ob-
jects in mahogany case

Fig 38 ... 0 14 0



Fig. 39.

The Child's Portable Compound
Microscope, for the parlour, gar-
den, or sea-side. Fig. 39 ...

0 4 9



Fig. 40.

Neat Compound Microscope, in leather case, with
sliding tube, mirror, 3 powers, live box, tweezers,
and six prepared objects. Fig. 40 ...

0 9 6



Fig. 41.

Compound School Microscope, on
firm tripod stand; with mirror,
two object glasses, tweezers, and
six objects in upright polished
cedar cabinet with drawer.

Fig. 41 ... 0 11 6

Compound School Microscope, on firm tripod stand; with *rack-movement* condenser, achromatic combinations forming two powers; and six best preparations in upright polished cabinet 1 7 0

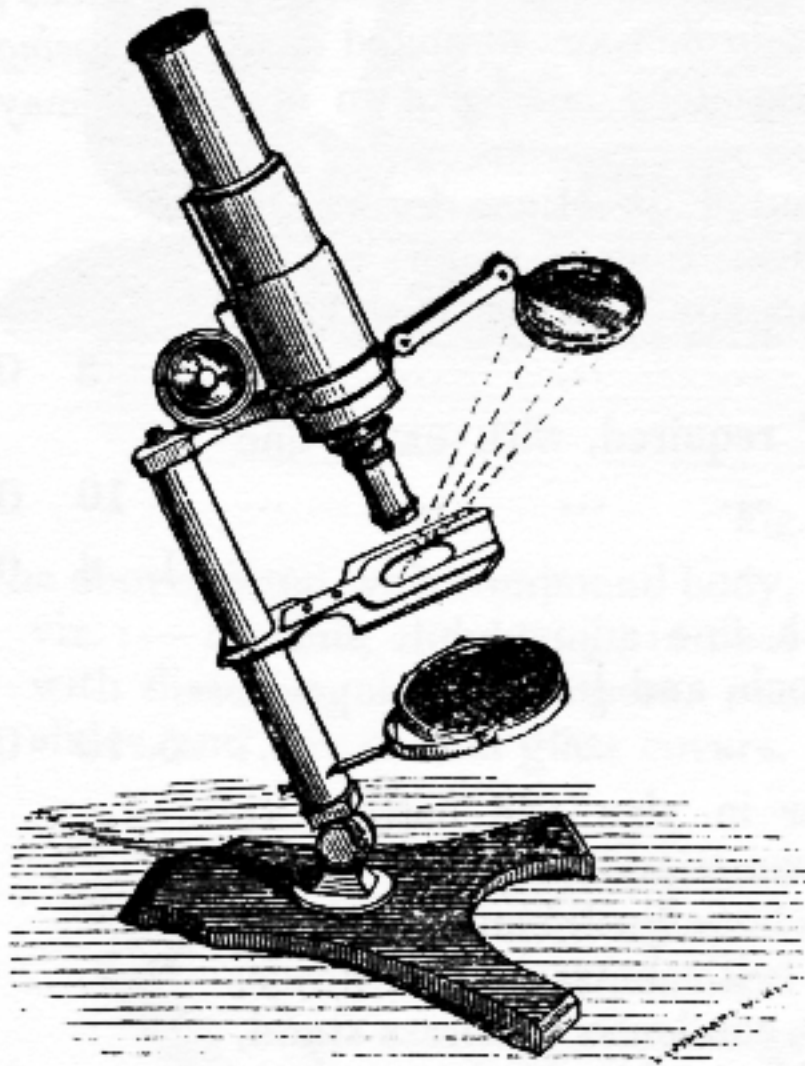


Fig. 42.

Compound Microscope, in portable mahogany lock-up case, with joint to incline the body to any angle; rack-movement, concave mirror, stage condenser, $1\frac{1}{2}$ inch object glass, and achromatic combination forming two powers; tweezers, glass slide, thin glass covers, and $\frac{1}{2}$ doz. best objects. Fig. 42 ... 2 0 0

The Student's Model Microscope, approved and recommended by eminent professors in the London, Glasgow, and Edinburgh Colleges.

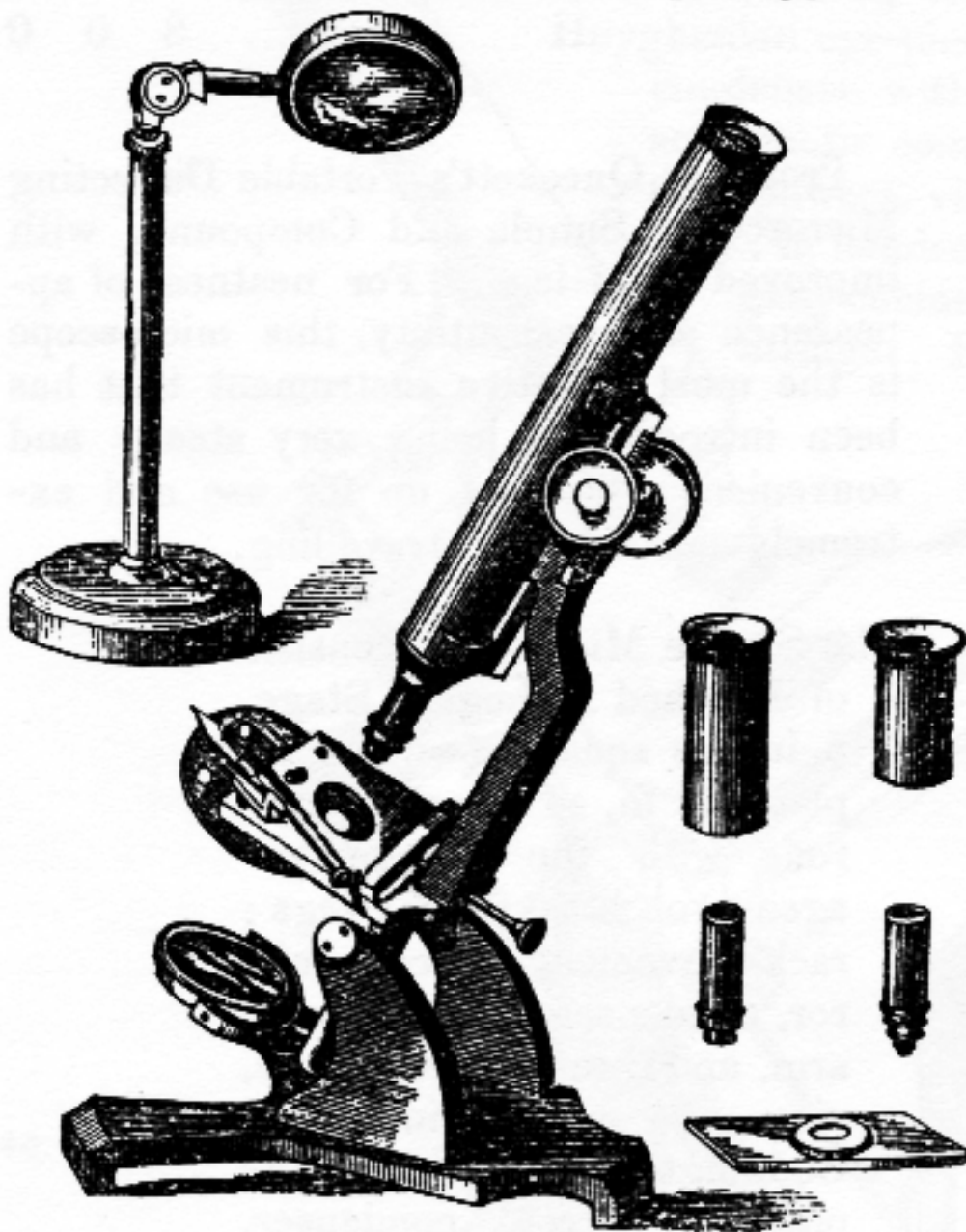


Fig. 43.

Consists of a Compound body, with rack adjustment, on firm tripod stand, with joint to incline the body to any angle; a large stage fitted with revolving diaphragm having various sized openings; plane and concave mirrors; condensing lens on sliding upright stand; two Huyghenian eye-pieces, A and B; and two best achromatic object glasses.

No. 1 Object Glass is of large aperture, $1\frac{1}{2}$ inch focus, magnifying 30 diameters with the A eye-piece, or 900 times superficial.

No. 2 Object Glass is a Triplet, of $\frac{1}{4}$ inch focus, magnifying 150 diameters with the A eye-piece, and 200 diameters with the the B eye-piece or 40,000 times superficial.

The Object Glasses are fitted to the body with a Sliding Tube, instead of a screw. By this plan the following important advantages are obtained:—The Object Glasses are more easily and quickly changed; the Rack may be more uniformly worn by sliding them in at different distances; and should any portion of the Rack be broken or deranged *at the Focussing Points*, the Object Glass may still be used by sliding it in or out as may be required.

Each Microscope is furnished with printed directions for use, a few thin Glass Covers, and two Glass Slides; and is neatly packed in an upright polished Mahogany Cabinet with Lock and Key. Fig. 43

3 3 0

The above Microscope may be had, if required, with extra fine adjustment

3 10 0

Polariscope Apparatus for ditto

1 4 0

Compound Microscope, as above, with fine adjustment, and 3 achromatic powers, viz., $1\frac{1}{2}$ inch, $\frac{1}{2}$ inch, and $\frac{1}{6}$ inch, in superior cabinet, No. 27

5 10 0

Elegant Student's Microscope, similar in size and pattern to No. 43, but with highly finished brass tripod feet and body; having course rack-movement, extra fine adjustment, moveable stage worked by diagonal screws, with brass milled heads, having $\frac{3}{4}$ inch motion in all directions, condenser on brass stand, two eye-pieces, $\frac{1}{4}$ inch achromatic object glass, and an achromatic combination, separable, forming $1\frac{1}{2}$ inch and $\frac{1}{2}$ inch; in best upright Mahogany Cabinet, fitted with tweezers, needles, dissecting knife, etc.

8 0 0

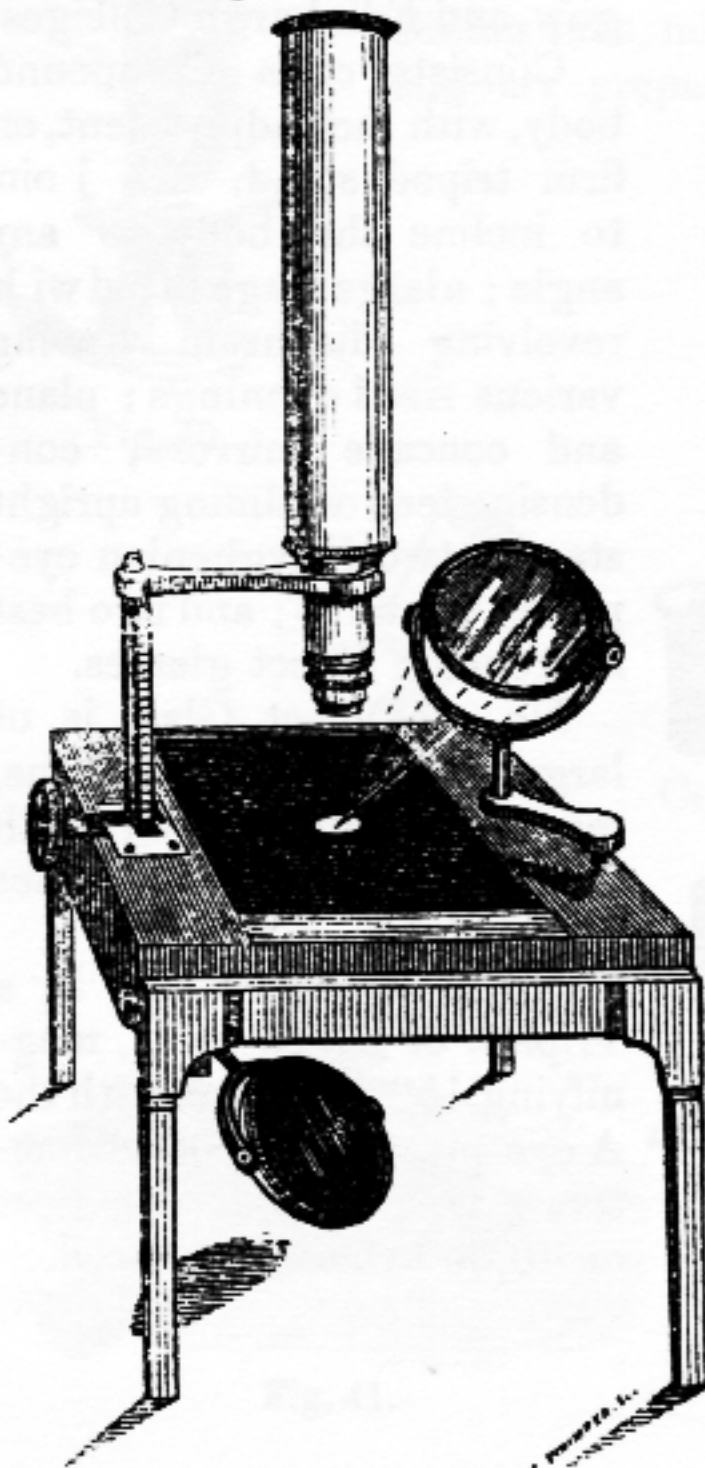


FIG. 44.

Professor Queckett's Portable Dissecting Microscope, Simple and Compound, with improved brass legs. For neatness of appearance and real utility, this microscope is the most effective instrument that has been introduced; being very steady and convenient when set up for use and extremely portable for travelling.

The Simple Microscope consists of Polished Mahogany Stage, 5 inches square, (with glass plate let in, so as not to corrode with the use of reagents) on brass folding legs; rack-movement, concave mirror, condenser with moveable arm, and three object glasses, viz.:— $1\frac{1}{2}$ inch, $\frac{1}{2}$ inch, and Coddington lens $\frac{1}{8}$ inch; the powers, mirror, condenser, etc., all packing into the under surface of the stage for portability in travelling. Fig. 44 set up, Fig. 45 in case

2 0 0

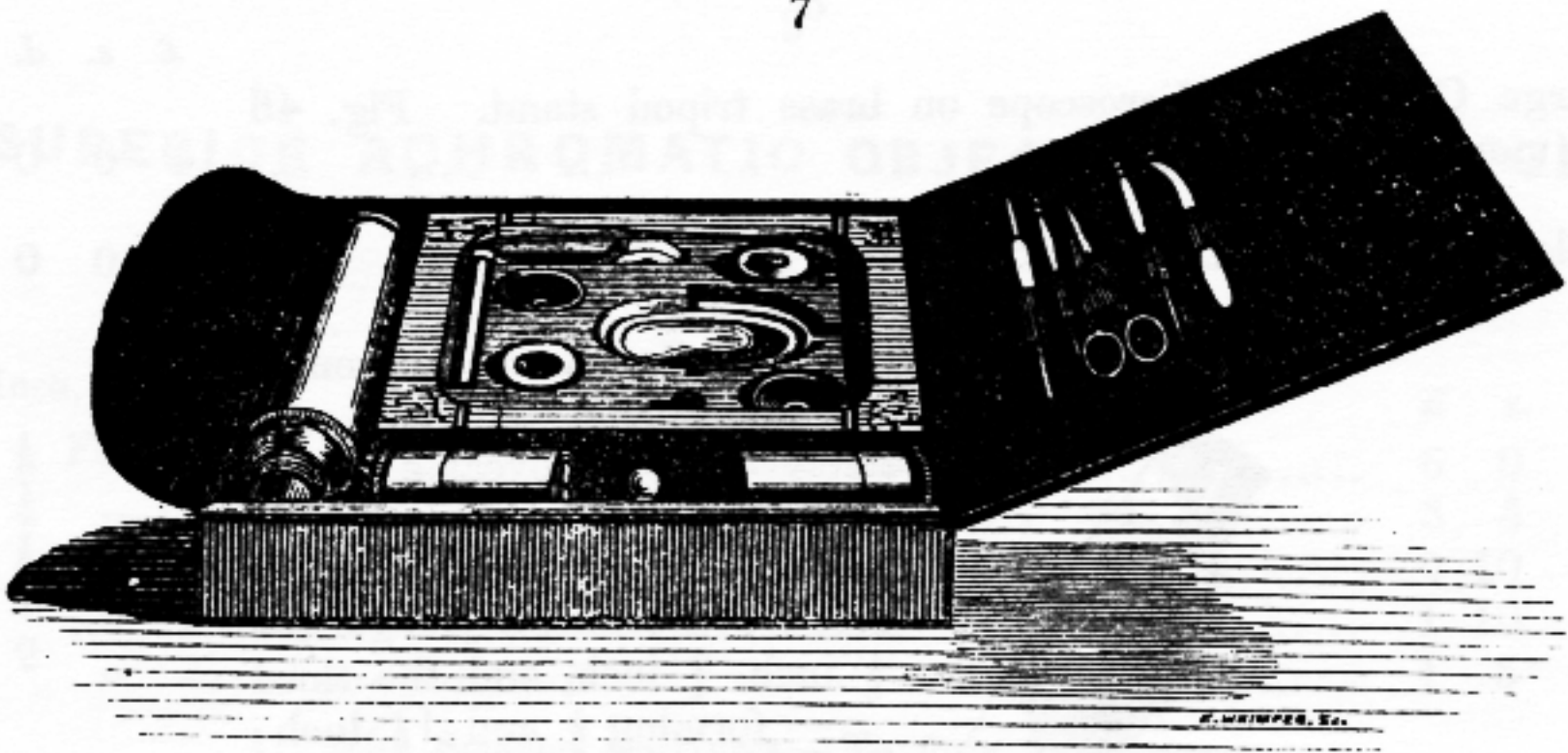
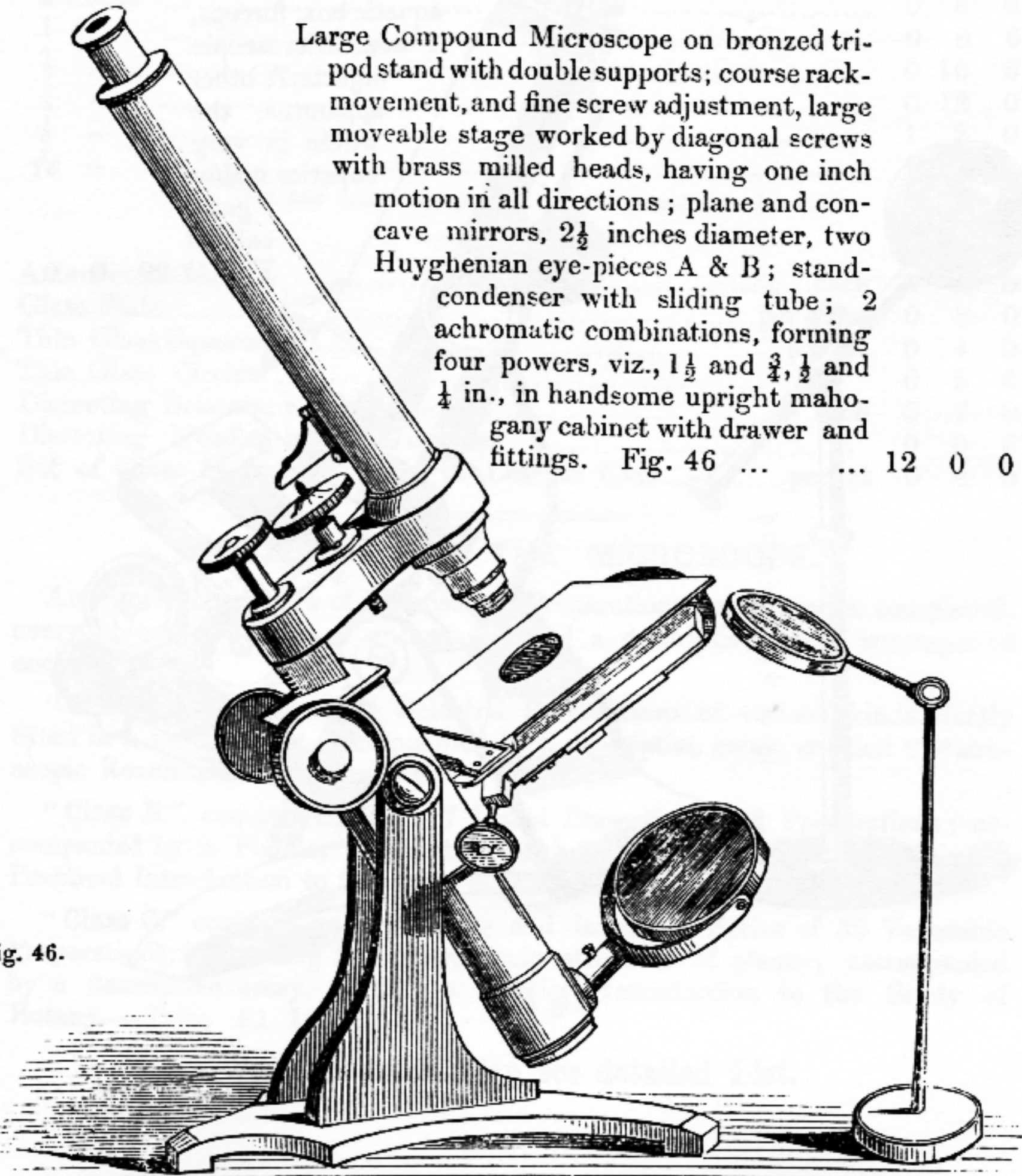


Fig. 45.

The above, fitted with compound body, 2 achromatic object glasses, viz. :— $1\frac{1}{2}$ inch, and $\frac{1}{4}$ inch, in neat morocco case (as drawing), with dissecting knife, scissors, needles, tweezers, $\frac{1}{2}$ doz. glass slides, and box of thin glass covers, complete ... 4 5 0

Large Compound Microscope on bronzed tripod stand with double supports; course rack-movement, and fine screw adjustment, large moveable stage worked by diagonal screws with brass milled heads, having one inch motion in all directions; plane and concave mirrors, $2\frac{1}{2}$ inches diameter, two Huyghenian eye-pieces A & B; stand-condenser with sliding tube; 2 achromatic combinations, forming four powers, viz., $1\frac{1}{2}$ and $\frac{3}{4}$, $\frac{1}{2}$ and $\frac{1}{4}$ in., in handsome upright mahogany cabinet with drawer and fittings. Fig. 46 ... 12 0 0

Fig. 46.



Large Compound Microscope on brass tripod stand. Fig. 46			
(more highly finished)	14	0	0
Polariscope Apparatus for either of the above	1	10	0

Extra Large Compound Achromatic Microscope, circular and safety stage moveable in all directions with rack-work and fine adjustment, 3 eye-pieces, 3 sets of achromatic object glasses $\frac{1}{8}$ inch, $\frac{1}{4}$ inch, and the third forming $\frac{1}{2}$ and $1\frac{1}{2}$ inch; plane and convex mirrors, detached condensing lens on stand, and micrometer $\frac{1}{100}$ inch. Complete Polarizing Apparatus of Nichol's Prisms, aquatic box, forceps, 1 doz. Microscopic objects, & other apparatus, the whole in very superior mahogany cabinet

Fig. 47 20 0 0

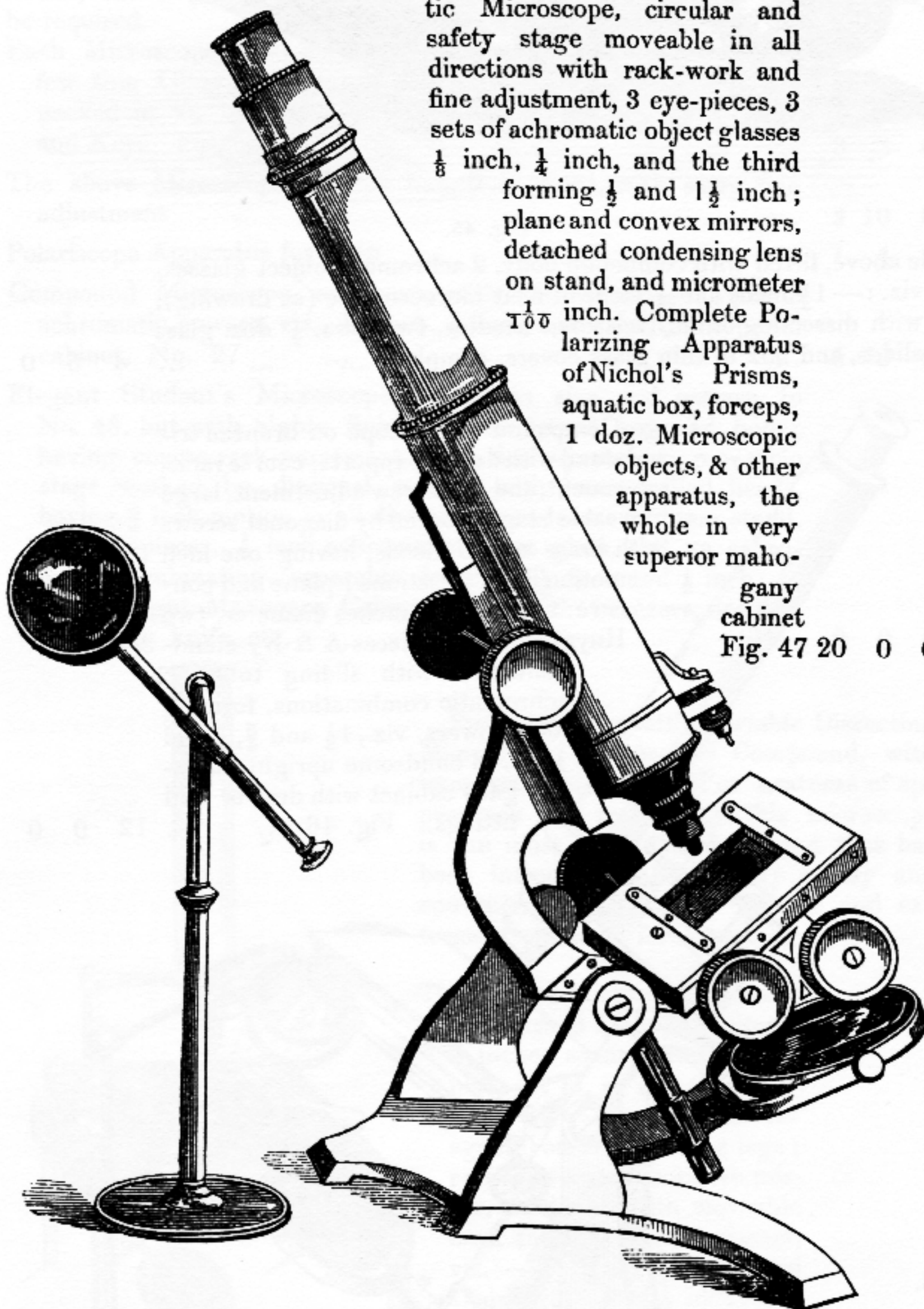


Fig. 47.

SUPERIOR ACHROMATIC OBJECT CLASSES FOR MICROSCOPES.

WARRANTED.

Inch,	Angular Aperture.	£	s.	d.
$\frac{1}{8}$ Focus.....	135 Degrees	6	0	0
$\frac{1}{4}$ "	75 "	3	3	0
$\frac{1}{2}$ "	57 "	2	10	0
1 "	15 "	1	10	0
2 "	12 "	1	5	0

With Smaller Apertures.—To form Two Powers.

$\frac{3}{8}$ and $\frac{1}{4}$ Focus	1	15	0
$\frac{3}{8}$ " $\frac{1}{2}$ "	1	10	0
$\frac{1}{2}$ " 1 "	1	5	0
1 " 2 "	1	0	0

Powers not to be separated.

2 Focus	0	6	0
1 "	0	8	6
$\frac{1}{2}$ "	0	10	6
$\frac{1}{4}$ "	0	12	0
$\frac{1}{8}$ "	1	2	0
$\frac{1}{16}$ "	1	7	6

The last mentioned powers are not mounted in boxes.

Animalcule Cages	each	0	4	0
Glass Slides	per gross	0	8	0
Thin Glass Squares	per oz.	0	4	0
Thin Glass Circles	"	0	5	6
Dissecting Scissors, with fine points.....	each	0	2	0
Dissecting Needles in bone handles	"	0	0	6
Set of Glass Animalcule Tubes in Leather Case.....	per set	0	4	0

OBJECTS FOR THE MICROSCOPE.

An interesting Series of Microscopic Preparations has just been completed; every object is numbered and named, and a descriptive essay accompanies each set.

"Class A." consists of 24 Selected Preparations of various kinds, neatly fitted in a Leather Box, accompanied by a descriptive essay, entitled "Microscopic Revelations."—Price 10s.

"Class B." consists entirely of Insect Dissections and Preparations; accompanied by a Popular Description of the Structure of Insects; forming a Practical Introduction to the study of Entomology.—Price £1.

"Class C." contains an interesting and important Series of 30 Vegetable Preparations, illustrating the Microscopic structure of plants; accompanied by a descriptive essay, forming a Practical Introduction to the Study of Botany.—Price £1 10s.

For full description see detailed List.

Zoophytes.

1. Sertularia Polyzonias.
2. Flustra chartacea.
3. Plumularia cristata.
4. Notamia Bursaria.
5. Sertularia operculata.
6. Laomedea geniculata.
7. Cellularia Avicularia.
8. Sertularia Rosula.
9. Plumularia falcata.
10. Sertularia pumila.
11. Plumularia pinnata.
12. Cellularia reptans.

Infusorial Earths.

13. From Algiers.
14. „ West Point, New York.
15. „ Mull.
16. „ Bilin.
17. „ Italy.
18. „ Barbadoes.
19. „ Auvergne.
20. „ Richmond, U.S.
21. „ Bangor, U.S.
22. „ New Durham, U.S.
23. „ Kieselguhr.
24. „ Lapland (Bergmehl).

Palates of Mollusca.

25. Helix aspersa, Garden Snail.
26. Whelk (Buccinum).
27. Lymnaeus stagnalis.
28. Chiton.
29. Nerite.
30. Limpet.
31. Helix cingenda.
32. Trochus Crassus.
33. Trochus ziziphinus.
34. Helix virgata.
35. Helix nemoralis.
36. Natica glaucina.
37. Buccinum Lapillus.
38. Winkle (Littorina).
39. Haliotis.
- Aplysia.
- Pleurobranch.

Botanical.

40. Spiral Vessels of Cobæa.
41. Fibro-cells of Sphagnum Moss.
42. Spiral Vessels, Seed of Colomia.
43. Cuticle of Yucca.
44. Cuticle of Amaryllis.
45. Cuticle of Aloe.

Hairs.

46. Albino Mole.
47. Albino Rat.
48. Dormouse.
49. White Mouse.
50. Common Bat.
51. Bat (Cynopterus).
52. Elephant (Transverse Section).
53. Ornithorhynchus.
54. Camel.
55. Reindeer.

Spicules of Sponges.

56. Grantia nivea (triadate).
57. Grantia compressa.
58. Sponge (Bicurved).
59. Pachymatasma (Crutches).
60. Halichondria incrustans.
61. Halichondria Griffithii (Pins).
62. Sponge (Stars).
63. Sponge (Phillippine Islands).
64. Sponge (Pins and Hooks).
65. Sponge (Clubs).
66. Dysidea fragilis.
67. Alcyonium digitatum.

Spicules of Gorgonia.

68. Muricata.
69. Amplia.
70. Tricolor, Red.
71. Tricolor, Yellow.
72. Filicuta.
73. Verrucosa (Devon).
74. Decussata.
75. Critsa Galli.
76. Miniata.

Spicules of Gorgonia.*(continued.)*

77. Pinna.
78. Purpura.
79. Plumatilis.

Miscellaneous.

80. Anchors of Synapta lineata.
81. Fossil Coniterous Wood (Tasmania).
82. Arachnoidiscus.
83. Isthmia obliquata.
84. Cladobates spinosus (Polariscope).
85. Calcareous bodies from Holothuria tremula (Polariscope).
86. Calcareous bodies from Holothuria Pentactes (Polariscope).
87. Horn of Rhinoceros; Transv. Sect. (Polariscope).
88. Human Tooth; Transv. Sect. (Polariscope).
89. Salicine (Polariscope).
90. Claws of Astrophyton (Starfish).
91. Recent Diatomaceæ.
92. Spores of Fern.
93. Spine of Echinus (Trans. Sect.).
94. Feather of Humming-Bird.
95. Scales of Podura.
96. Scales of Pontia brassica (White Butterfly).
97. Scales of Sphinx Moth.
98. Forameniferous shells from Sponge Sand.
99. Navicula Hippocampus.
100. Gemmules of Tethia Sponge.
101. Spicules of Melatæa.
102. Spicules of Melatæa ocracea.
103. Comb of Spider's Foot.
104. Scales of Venessa urtica.
105. Scales of Lepisma.
106. Proboscis of Bee.
107. Gomphonema geminatum, Flustules of.
108. Biddulphia and Amphitetras.
109. Melosira Borreri.
110. Scales of Morphe Menelaus.

Price 10s. per doz.

Sets of Zoophytes, Infusorial Earths, Palates, Spicules of Sponges and Gorgonia, Twelve in Each, 10s. per set.

PACKED IN RACKED CARD BOARD BOXES OF ONE OR TWO DOZEN EACH.

A neat Mahogany Box with Racks, containing Four Dozen Objects, £2.
Ditto ditto Six ditto £3.

NOTE.— *In transmitting Orders for any of the above objects, an indication of the Number will be sufficient.*

	£	s.	d.
A set of Slides (12) Illustrating the Growth and Structure of Human Bone.....	1	1	0
A set of Urinary Deposits, (12)	1	1	0
Injected Preparations, and other Animal Tissueseach slide	0	2	6
Transverse and Vertical Sections of Recent and Fossil Bones of Mammals, Reptiles, Birds, and Fisheach slide	0	1	6
Transverse and Vertical Sections of Recent and Fossil Teeth ..	0	1	6
Blood Discs, Pigment Cells, Skin, etc.....	0	1	6
Blood Discs—Syren and Lepidosyren, etc.....	0	2	6
Sections of Lime-stones, Oolites, Flints, Agates, etc.....	0	1	6
Spicules and Gemmules of Sponges and Gorgonias.....	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, Acari and Parasiteseach slide	0	1	6
Vegetable Preparations : —			
Sections of Woods, Petals, Siliceous Cuticles, Spiral and other Vessels, Ducts, Spores, Pollens, Hairs, etc.each slide	0	1	6
<i>Fossils</i> : — Sections of various exogenous and endogenous Woodseach section	0	1	6
Sections of Coal (many varieties).....	0	1	6
Diatomaceæ — Recent and Fossil, in great variety.....each slide	0	1	6
Test Objects	0	1	6
Ditto for 1-8th and 1-12th Object Glasses.. ..	0	2	6
Polariscope Objects, selected from Vegetable, Animal, and Mineral Substanceseach slide	0	1	6
Set of Selenites (3)	0	6	0

Canada Ba'sam, Asphalt, Gold Size, Glycerine, &c., 1s. per Bottle.

Thin Glass, in Squares, 4s. per oz.; in Circles, 7s. per oz.;

Ditto, mixed, 5s. 6d. per oz.

Plate-glass Slips, polished edges, 3 inches by 1, 9s. per gross.

Best flatted Crown ditto, 7s. 6d. per gross.

CELLS, READY FOR USE, 6s. per dozen.