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C. BAKER

244 HIGH HOLBORN

LONDON

ESTABLISHED 1765.

April, 1938.

CLASSIFIED LIST of SECOND-HAND SCIENTIFIC INSTRUMENTS

No. 113

The passing of this List to your friend will be appreciated.

Telegraphic Address:
"Optivorum,
Holb, London."

Telephone:
Holborn 1427.

Droits reservés au Cnam et à ses partenaires

TERMS OF BUSINESS.

PRICES.

All prices in this Catalogue are nett for cash.

ACCOUNTS.

Where it is desired to open an account, two references on business houses should be given. Credit is extended for prompt monthly settlement only.

PAYMENTS.

Cheques must be cleared before dispatch of goods, if the customer is unknown to us. Cheques and Postal Orders should be crossed. Overseas customers will find a Banker's Draft, or British Postal Orders the most convenient method of remitting.

DISPATCH.

Goods are sent Carriage Forward by the cheapest route unless otherwise instructed.

SIGNING FOR GOODS.

Customers should sign Carriers' Delivery Note "UNEXAMINED," otherwise no claim for loss or damage will be entertained. Packing should also be kept in case it is desired to inspect same. Carriers should be notified at once of damage or shortage, also the Insurance Company.

PACKING.

All goods are packed by experienced packers and sent at consignees' risk.

APPROVAL.

Goods are forwarded on 3 days' approval in the London area, and 5 days for the provinces against deposit of value of instrument.

We pay Carriage out, but if apparatus is returned, customer must pre-pay cost of return.

NAMES & ADDRESSES.

Customers are requested to write clearly their names and addresses. Block letters are preferable. Delay and trouble will thereby be avoided.

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M 9842
CONSERVATOIRE NATIONAL DES ARTS ET MÉTIERS
CENTRE DE DOCUMENTATION
MUSÉE

SECOND-HAND DEPARTMENT.

ESTAB.] # C. BAKER. [1765.

Partners :
C. LEES CURTIES. THOS. J. OFFER.

This Catalogue of USED AND SHOP-SOILED APPARATUS contains over 3,500 items and is published APRIL and OCTOBER.

IF YOU DESIRE ALL EDITIONS OF THIS LIST TO BE SENT YOU, PLEASE COMPLETE AND SEND TO US THE POSTCARD.

KEEP THIS LIST FOR FUTURE REFERENCE UNTIL THE NEXT EDITION IS RECEIVED.

IMPORTANT NOTICE.

STUDY THE SUMMARY CAREFULLY, PAGES III & IV.

In the interests of our customers the Summary has been considerably extended and itemised to enable them to quickly locate the Section and page where the Apparatus they are desirous of purchasing may be found.

GUARANTEE.

We guarantee every instrument to be in good optical and mechanical order. Each item when purchased for stock is subjected to a rigorous examination, and, if found necessary, sent to our works for adjustment or repair.

INSPECTION INVITED.

All instruments except those having an asterisk (*) between the figures composing the designating number are, if still unsold, on the premises ; those with an asterisk between the figures can be seen by arrangement only.

SUBMITTED FOR APPROVAL.

Those of our customers who are unable to call at our Showrooms to inspect pieces of apparatus, which, from the description, they think are likely to suit them, can have same on approval for three days on agreeing to pay all transit charges. Those unknown to the Firm can also have instruments under the same conditions, provided a remittance to the value of the apparatus selected and the above charges is forwarded with the application.

REQUIREMENTS NOTED.

Intending buyers who do not find exactly what they want in this list are strongly urged to communicate with us, giving full details of their requirements, as we are adding to our stock daily. If unable to supply from stock, we shall be pleased to advise as soon as the desired piece of apparatus comes to hand.

Droits reservés au Cnam et à ses partenaires

TERMS.

In addition to offering Second-hand Scientific Instruments for sale we are prepared to buy, or deal with them in any of the following ways :—

APPARATUS PURCHASED, VALUED, SOLD ON COMMISSION, OR DISPOSED OF AT AUCTION.

All Apparatus submitted for our inspection must be left with us for at least two clear days ; if sent by carrier it should be forwarded carriage paid, and a detailed list of the number of articles sent under separate cover.

Large quantities of apparatus inspected in town or country, and a preliminary report furnished at a moderate cost as to the best means of disposing of same.

(1) All offers for apparatus are for cash by return.

(2) Fee for valuation only, 5%.

(3) Commission and charges for selling.†

(A) Payable whether sold or not.

(1) Advertising in this list, 1s. per line per issue for first three issues, afterward, free.

(2) Storage, 5s. per foot floor space per annum. (This charge applies to large articles only).

(B) Payable only if sold.

(1) Commission of 20% on the gross price realised.

Clients leaving instruments with us for sale are strongly advised to have same thoroughly cleaned and overhauled (for which we shall be pleased to estimate), as a small amount spent in this way greatly facilitates sale.

(4) **Commission, if sent to auction,** including lotting charges, Auctioneers' fees, storage and cartage :—

For each sale, if unsold..... 12½% of the reserve fixed.

If sold ..... 25% of the price realised.

† We cannot accept for sale on commission sundry apparatus of less value than 20s. per piece.

THE FOLLOWING INSTRUMENTS ARE REQUIRED, AND GOOD PRICES WILL BE ALLOWED IF THE APPARATUS IS BY WELL-KNOWN MAKERS, MODERN, AND IN GOOD ORDER.

MICROSCOPES, ALL TYPES, OBJECTIVES AND ACCESSORIES, DUMPY LEVELS, STAVES, TELESCOPES WITH 3″ TO 12″ DIAMETER MIRRORS OR OBJECTIVES, PRISM, BINOCULARS, D.V. SPECTROSCOPES, BALANCES, ETC.

Droits reservés au Cnam et à ses partenaires

Summary of Sections.

Please Note the Sub-section "Sundry" of Section VIII. is of particular interest to many people.

Droits reservés au Cnam et à ses partenaires

SUMMARY OF SECTIONS—Continued.

WE ARE ACTUAL MANUFACTURERS OF MICROSCOPES, MICRO-PROJECTORS, LAMPS, LANTERNS, EPIDIASCOPES AND ALL ACCESSORY APPARATUS.

The following Lists may be had on application :—

Microscopes and Accessories.
Microscopes, Dissecting and Mounting Apparatus.
Epidiascopes, Episcopes & Lanterns.
Micro-Projectors.
Metron Laboratory Apparatus.
Tripod Magnifiers.
Vernier Measuring Microscopes.
Diagraphic Projectors.
Surveying and Drawing Office Equipment.

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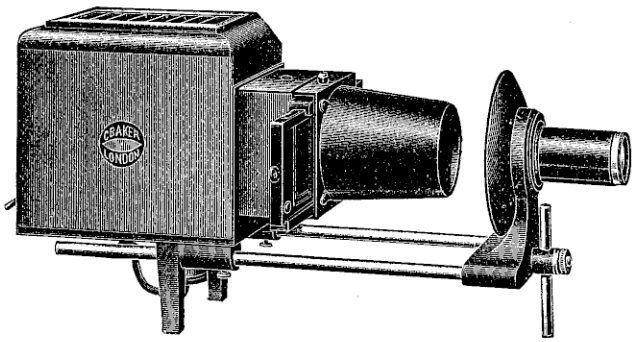
New C.B. Lantern



The New " C.B." Projection Lantern is an instrument designed principally for use in schools, where simplicity of operating, sturdiness of design and absolute reliability are essential.

The lantern is built on two rails after the principle of an Optical Bench and this ensures the different components being always in line. The objectives of 6in., 8in. and 10in. focus are of 1¾in. aperture and 2¾in. aperture in the longer focal lengths up to 18ins., and all are mounted in helical focussing mounts. They are of the best quality and give critical definition. The condensers are easily accessible and can be removed and cleaned, when necessary, without any difficulty.

A simple tilting device is provided for rooms in which the screen is higher than the lantern. The slide carrier is of the automatic lifting type.

Most interesting is the design of the lamphouse. For some time our projection apparatus has been noted for its coolness and this model is no exception. The lamphouse is built with two walls. Between the two lamphouses cool air is always circulating, so that the outside lamphouse remains quite cool to touch, even when high wattage lamps are being used. The importance of this coolness will be evident to anyone who has touched the body of the usual type of lantern in the dark by mistake after it has been burning for some time.

The lamp adjustments are simple and give adequate movement in all directions.

The instrument will close into a small space for storing, but in spite of this compactness, an extension of 16ins., or more is obtainable on the standard instrument, and lenses from 6in. to 14in. focus can be used. The lantern can be made with a longer extension, however, if it is desired to use longer focal length lenses than this.

The New " C.B." Lantern is finished in crystalline enamel and nickel-plated, and is as attractive in appearance as it is efficient in practice.

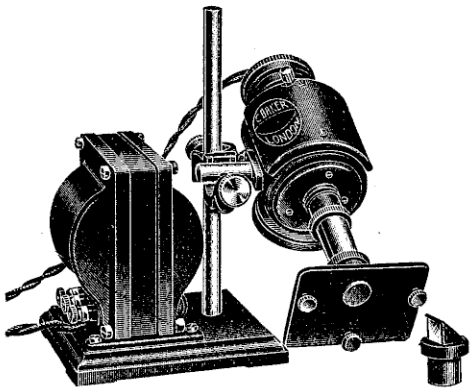
	£	s.	d.
Price with 6in., 8in. or 10in. lenses of 1¾in. aperture, without lamp ...	**11**	**11**	**0**
Lenses of 2¾in. aperture of longer focus than 10ins., without lamp ...	**14**	**0**	**0**
500 watt Lamp	**1**	**4**	**0**
250 ,, ,, ...	**1**	**0**	**0**
Case, black pine, with handle	**1**	**7**	**6**

Please state voltage of lamp when ordering.

Micro-Projector, for use on above	**4**	**5**	**6**
Objective Micro, 3in., N.A. ·08	**1**	**19**	**0**
,, ,, 2in., ,, ·1	**0**	**19**	**6**
,, ,, 2in., ,, ·15	**2**	**4**	**0**
,, ,, 1in., ,, ·197	**1**	**17**	**6**

Droits reservés au Cnam et à ses partenaires

Low Voltage Research Microscope Lamp



The employment of the 6 volt 4·5 ampere bulb lamp has enabled a Microscope Lamp with a very intense illumination to be produced for **Photomicrography**, and especially **Dark Ground Illumination.**

An optical glass rod is fitted in the front of the lamp housing, one end is polished and the other ground. It is from this latter end that the illumination is obtained. By altering the distance between the polished end and the bulb, varying intensities of light can be obtained. On the front of the rod is fitted a plate for carrying coloured filters, and this can be replaced by a right-angle prism for reflecting the light direct into the Substage Condenser or Dark Ground Illuminator. The prism can also be used for illuminating opaque specimens on top of the stage.

For alternating current a transformer is provided fitted to the stand, as illustrated ; this also adds to the stability, but for direct current it is necessary to provide a variable resistance.

All necessary movements are provided and the upright is high enough to enable the rod to illuminate the top of the stage of most modern microscopes.

Prices

	£	s.	d.
Research Microscope Lamp, with holder to carry 2in. screens and transformer for alternating current	**5**	**15**	**6**
Ditto, with variable resistance for direct current, 100-250	**5**	**15**	**6**
Ditto, without transformer or resistance, for use with accumulator ...	**3**	**17**	**0**
Right-angle Prism Attachment, for opaque and direct illumination	**0**	**19**	**6**
Set of 9 Wratten Filters, 2in. square, in case	**3**	**14**	**6**
Spare Lamps ... ... each	**0**	**6**	**0**

Droits reservés au Cnam et à ses partenaires

SECTION I.

MICROSCOPES AND MICROSCOPIC APPARATUS.

A. MONOCULAR INSTRUMENTS.

	All of which include a case unless otherwise stated.	£	s.	d.
531/24	**Powell & Lealand** No. 1 Stand, monocular and binocular bodies, Achro condenser, double nosepiece, 1 pair and 1 extra eyepieces, and box for apparatus...	65	0	0
564/28	**Powell & Lealand** Stand No. 3, no case, very good condition	15	15	0
432–8/9	**P. & L.**, No. 2, mechanical stage, rack and pinion centring substage, in case.....	20	0	0
646/9	Projection Microscope, with coarse and fine adjustments, condensing lens, cooling trough, and Cooke Series III. 1·25in. projection objective, in mahogany case.....	·7	15	0
622/139	Reading Microscope, with screw micrometer eyepiece.....	5	0	0
434–2/6	**Baker**, Large Model Student's, $\frac{1}{4}$in. objective and 2 eyepieces and bull's-eye condenser.....	7	10	0
681/21	**Swift** Portable Clinical and Field Microscope, with Abbé condenser and iris, double nosepiece, 1in. and $\frac{1}{6}$in. objectives, 1 eyepiece, in leather case.....	10	10	0
732/9	**Davidson** Microscope, with 1$\frac{1}{2}$in. objective, 1 eyepiece and lighting attachment, in case.....	2	10	0
902–17/9	**Davon** Micro Telescope, complete with 1$\frac{1}{2}$in., 1in. and $\frac{2}{3}$in. objectives, 2 eyepieces, table stand, in leather case, as new	5	0	0
883–21/4	**Davon** Micro Telescope Outfit, in oak case, with $\frac{1}{2}$ plate camera on oak base board and 1 D.D. slide.....	5	10	0
786/22	**Swift** Portable Field Microscope, with double nosepiece, objectives 1in. and $\frac{1}{6}$in., 1 eyepiece, in case	9	0	0
922–3/16	Student's Stand, with sliding tube, micrometer screw fine adjustment, 1in. and $\frac{1}{4}$in. objectives, 1 eyepiece, in case	4	17	6
40/3/17	Measuring Microscope, with 5in. drum, reading to 10,000 of an inch with 1 eyepiece, in case.....	5	10	0
75/4/11	**Zeiss** Stand 1A, with circular centring rotating mechanical stage, rack focussing substage, Abbé and iris, quadruple nosepiece, objectives A, D and $\frac{1}{12}$in., eyepieces 2 and 4, in case.....	27	10	0
77/4/11	**Leitz** Stand (C), with circular centring rotating stage, rack focussing substage, Abbé and iris, triple nosepiece, objectives 3 and 6, eyepieces 1, 3 and 4, in case.....	13	0	0
37/2/10	**Beck**, with spiral focussing substage, Abbé and iris, double nosepiece, objectives $\frac{2}{3}$in. and $\frac{1}{6}$in., eyepieces 1 and 2, in case.....	9	0	0
23/1/6	**Parks**, with double nosepiece, 2 objectives, 1 eyepiece, in case	2	10	0

Apparatus lotted and sent to auction.

Droits reservés au Cnam et à ses partenaires

MICROSCOPES AND MICROSCOPIC APPARATUS.—Continued.

		£	s.	d.
889–15/30	**Powell & Lealand** No. 1, long and short monocular, and long binocular body, each with rack and pinion, fine adjustment to substage in case	55	0	0
909–28/5	Microscope, for measuring thicknesses, with 7¾in. track, divided on silver reading to $\frac{1}{5}$ of m/m	2	10	0
4/5/17	**Watson** Edinburgh H, with analyser in body, built in mechanical stage, rack focussing centring substage, achromatic condenser and iris, double nosepiece, 1 eyepiece, in case	15	0	0
33/4/11	**Leitz,** with Abbé and iris, double nosepiece, 3 and 7 objectives, 1 eyepiece, in case	10	0	0
939–12/S	**Bausch & Lomb,** with glass stage, sliding substage, condenser, wheel diaphragm, can be used either inverted, or as an ordinary Microscope, 1 eyepiece, no case	10	0	0
New	**Baker** II.A, with spiral focussing substage, Abbé and iris, double nosepiece, objectives 3 and 6, eyepieces 2 and 4, complete in mahogany case	14	19	0
New	**Baker** II.A, with iris diaphragm, double nosepiece, 3 and 6 objectives, eyepieces 2 and 4, in mahogany case	11	19	3
New	**Baker** II.B, with rack focussing substage, Abbé and iris, triple nosepiece, objectives 3 and 6, eyepieces 2 and 4, in mahogany case	17	18	6
New	**Baker** II.A, with spiral focussing substage, Abbé and iris, triple nosepiece, 3, 6 and $\frac{1}{12}$in. o.i. objectives, eyepieces 2 and 4, in mahogany case	20	15	3
New	**Baker** II.B, with rack focussing substage, Abbé and iris triple nosepiece, objectives 3, 6 and $\frac{1}{12}$ o.i., eyepieces 2 and 4, complete in mahogany case	23	7	6
76/3/11	**Baker** D.P.H., with built-in mechanical stage, rack focussing substage, Abbé and iris, triple nosepiece, objectives 3, 6 and $\frac{1}{12}$in., eyepieces 2 and 4, in case	25	0	0
77/3/10	**Beck** London (29), with Abbé and iris, double nosepiece, objectives $\frac{2}{3}$in. and $\frac{1}{6}$in., 1 eyepiece, in case	9	10	0
78/3/11	**Watson** Fram, with built-in mechanical stage, rack focussing centring substage, Abbé and iris, double nosepiece, objectives 3 and 6, 2 Holos eyepieces, in case	16	0	0
78/4/11	**Reichert,** with spiral focussing substage Abbé iris and stop carrier, triple nosepiece, objectives 3 and 7A, eyepieces 2 and 4, in case	12	10	0
79/3/11	**Baker** II.A, with spiral focussing substage, Abbé and iris, triple nosepiece, objectives 3 and $\frac{1}{6}$in., eyepieces 2 and 4, in case	12	10	0
965–4/10	**Baker,** with rack focussing substage, achromatic condenser with iris and stop carrier, double nosepiece, in case	10	0	0

Apparatus Exchanged for other Goods.

Droits reservés au Cnam et à ses partenaires

B. BINOCULAR STANDS.

B BINOCULAR.

All of which have rack and pinion coarse and micrometer screw fine adjustments, and mahogany case, unless otherwise stated.

		£ s. d.
868–24/24	**Powell & Lealand** No. 1, (1895), with monocular body, high and low power prisms, fine adjustment to substage, rack and pinion to secondary body, in perfect condition, in mahogany case.....	55 0 0
581/23	**Powell & Lealand,** No. 1, with monocular body, high and low power prisms, achromatic condenser with wheel diaphragm objectives $\frac{1}{2}$in., $\frac{1}{4}$in. and $\frac{1}{8}$in., 6 pairs of capped eyepieces, stage bull's-eye, substage selenite carrier, paraboloid, in mahogany case.....	50 0 0
453–11/30	**Powell & Lealand,** No. 1 Stand, in splendid condition (ring stage model) monocular, body with rack and pinion draw tube, fine adjustment to substage, low, high power prisms, double nosepiece, 2 compressors light filter, 2 pairs of eyepieces, 1 single in mahogany case, with extra case for apparatus.....	65 0 0
550/S	**Baker** Binocular, with rotating stage, 2in., 1in., and $\frac{1}{4}$in. objectives, spot lens, live box, and 1 pair eyepieces on wooden base, with glass shade.....	7 10 0
843–2/23	**Swift** Portable Binocular, with compound substage, low power condenser, polariscope, double nosepiece, pair of capped eyepieces, in case, very good condition	18 0 0
530/28	**Swift** " Challenge," special fine adjustment, 1 pair of eyepieces, rotating stage with sliding plate, no case.....	12 12 0
564/18	**Powell & Lealand** No. 1 (Ring Stage Model), monocular body, rack focussing centring substage, achromatic condenser with wheel diaphragm, double nosepiece, 1in., $\frac{1}{2}$in., $\frac{1}{4}$in., $\frac{1}{8}$in. and $\frac{1}{25}$in., objectives, 2 pairs capped eyepieces, substage selenite carrier and 3 selenites, paraboloid, compressor, live box, camera lucida, stage forceps, in case, with separate case for apparatus	60 0 0
774–3/4	**Crouch** Binocular Stand, with circular rotating stage, low power condenser with wheel of stops, spot lens, 2 pairs capped eyepieces, in case	7 0 0
939–10/S	**Browning Stephenson** Binocular, with pair of eyepieces, 2″, 1″, $\frac{1}{2}$″ and $\frac{1}{4}$″ objectives.....	14 0 0
939–11/S	**Ross** Binocular Aquarium Microscope, with rack and pinion, adjustments in all directions, with pair of eyepieces, 2″ and 1″ objectives	12 0 0

Apparatus let out on Hire, see page 36.

Droits reservés au Cnam et à ses partenaires

B. BINOCULAR STANDS—Continued.		£	s.	d.
960–2/4	**Swift** Challenge, with rotating mechanical stage, rack focussing centring substage, low power condenser, double nosepiece, 2in., 1in. and ¼in. objectives, 5 capped eyepieces, in case	8	0	0
10/7/4	**Beck** Popular, with 2in., 1in. and ¼in. objectives, 2 pairs of eyepieces, spot lens, in case	8	10	0
11/7/18	**Collins,** with rotating mechanical stage, rack focussing substage, condenser, iris diaphragm, double nosepiece, objectives 1in., $\frac{4}{10}$in. and ⅛in., pair of eyepieces, in case	9	10	0

PLEASE DO NOT ASSUME THAT BECAUSE THE APPARATUS LISTED IN THIS CATALOGUE IS SECOND-HAND, THAT IT IS POSSIBLY IN BAD CONDITION OR OUT OF ORDER. A VERY LARGE PROPORTION IS PRACTICALLY IN NEW CONDITION AND ALL IS FULLY GUARANTEED TO BE IN PERFECT MECHANICAL AND OPTICAL ORDER.

Droits reservés au Cnam et à ses partenaires

C. OBJECTIVES.

(a) Achromatic—Dry. (b) Achromatic—Water Immersion. (c) Achromatic —Oil Immersion. (d) Apochromatic. (e) Projection.

1C (a) 131 ACHROMATIC—Dry.			£	s.	d.
3 inch	595/131	Un-named	1	0	0
	2/11	**Dolland**	1	0	0
	7/11	**Swift**	1	5	0
	948–6	**Powell & Lealand**	1	5	0
	8/11/131	**Beck**	0	15	0
	960–3	**Swift**, 4in.	1	0	0
	4/10/131	4in. Objective	1	0	0
	9/11/131	**Baker**	1	0	0
2 inch	8/12	**Zeiss**, A.O	1	5	0
	948–7	**Powell & Lealand**	1	10	0
	14/12/131	2in. Objective	1	0	0
	15/12/131	**Crouch**	1	0	0
	1/12/131	**Zeiss** A.1	1	0	0
1½ inch	696/131	**Zeiss**, A*	1	5	0
	11/13	**Zeiss**, A*	1	10	0
	18/13	**Zeiss**, A.*	2	5	0
	19/13	**Zeiss**, A.*	1	10	0
1 inch	New	**Baker**, N.A. 0·17	1	15	0
	8/14/131	**Watson**, Argus	0	17	6
	10/14/131	**Watson**, 24 m/m, Holos, N.A. ·24, 160 m/m tube	2	0	0
	13/14/131	**Powell & Lealand**	1	5	0
	21/13/131	**Reichert**, No. 2	1	0	0
	19/14/131	**Beck**	1	0	0
	21/14/131	**Powell & Lealand**	1	5	0
	14/14/131	**Reichert**, 1A.	1	0	0
	16/14/131	**Leitz**, No. 1	1	0	0
	17/14/131	**Ross**	1	5	0
3/4 inch	456–7/131	**Powell & Lealand**	2	10	0
	833/131	**Zeiss**, A.A.	1	10	0
	868–7/131	**Smith & Beck**	1	5	0
	871–2/131	**Zeiss**, A.	1	10	0
	903–12/131	**Ross**, ⅔in.	1	0	0
	1/15/131	**Reichert**, No. 3	1	5	0
	26/15	**Leitz**, No. 3	1	5	0
	29/15	**Leitz**, No. 3	1	5	0
	31/15	**Reichert**, No. 3	1	5	0
	34/15	**Zeiss**, A	1	5	0
	35/15	**Beck**, 16 m/m	1	0	0
	42/15	**Zeiss**, A	1	5	0
	45/15	**Swift**	1	5	0
	46/15	**Leitz**	1	5	0
	51/15	No Name, ⅔in.	0	17	6
	52/15	**Zeiss**, A.A., for metallurgy	2	10	0
	59/15	**Watson** Para	1	5	0
	60/15	**Baker**, ¾in.	1	5	0
	61/15	**Ross**, N.A. ·30, with Lieberkuhn	1	5	0
	62/15	**Leitz**, No. 3	1	5	0
1/2 inch	831–5/131	**Gundlach**	1	10	0
	*841–24/131	**Powell & Lealand**	2	10	0
	903–13/131	**Ross**	1	5	0
	8/16	No Name	1	0	0
	10/16	**Beck**	1	0	0

* With Correction Collar.

Apparatus sold on Commission.

Droits reservés au Cnam et à ses partenaires

		OBJECTIVES.—Continued.	£	s.	d.
	19/16/131	**Swift**	1	10	0
	18/16/131	**Leitz**, No. 4	2	0	0
	14/16	**Watson**, 12 m/m, Holos N.A. ·65, 250 m/m tube	3	10	0
	12/16	**Leitz**, No. 4	2	0	0
	15/16	**Reichert**, No. 2	1	10	0
	16/16	**Swift**	1	10	0
	17/16	**Beck**	1	0	0
4/10 inch	*694–16	**Collins**	2	0	0
	1/17/131	**Dallmayer**	1	5	0
	948–9	**Ross**	1	10	0
	1/18/131	**Watson**, 8 m/m, Holos N.A. ·65, 200 m/m tube...	4	0	0
	2/17/131	**Beck***	1	0	0
	3/17/131	**Ross**, 4/10in.*	1	0	0
1/4 inch	546–6/131	———	2	0	0
	876–4/131	**Zeiss**, C	2	10	0
	898–4/131	**Watson**, 6 m/m, N.A. 0·74, 160 m/m tube	4	0	0
	7/19	**Watson**, 6 m/m Holos, N.A. ·95, 160 m/m tube...	4	0	0
	948–11	**Zeiss**, C.	2	10	0
	5/19	**Zeiss**, C.	2	10	0
	9/19	**Baker**	2	0	0
	10/19	**Zeiss**, C.	2	0	0
	959–2/	**Zeiss**, C.	2	0	0
	12/19	**Collins***	1	10	0
1/5 inch	*694–19	———	2	0	0
	*693	**Beck**	1	0	0
1/6 inch	55	**Watson**, Holos 4 m/m, N.A. 0·95, 250 m/m tube...	4	0	0
	54	**Watson**, Holos, 4 m/m, N.A. 0·95, 200 m/m tube	4	0	0
	947	**Watson**, 4 m/m Holos, N.A. 0·95, 250 m/m tube...	4	0	0
	72/131	**Zeiss**, D.D.	3	0	0
	80/131	**Zeiss**, D.D.	3	0	0
	83/131	**Zeiss**, D.D.	3	0	0
	895–10/131	**Leitz**, 6A.	3	0	0
	15/21	**Zeiss**, D.	2	10	0
	18/21	**Zeiss**, D.	2	10	0
	20/21	**Leitz**, No. 6.	2	10	0
	25/21	**Zeiss**, D.D., Fluorite*	5	0	0
	26/21	**Zeiss**, D., for metallurgy	3	10	0
	44/21/131	**Watson**, N.A. 0·74	2	5	0
	35/21/131	**Swift**, N.A. 0·85	2	10	0
	37/21/131	**Beck**	2	5	0
	38/21/131	**Swift**, N.A. 0·83	2	10	0
	39/21/131	**Zeiss**, D.D.	2	10	0
	41/21/131	**Zeiss**, D.D.*	2	5	0
	40/21/131	**Bausch & Lomb**	2	10	0
1/8 inch	878/131	**Spencer**, 3 m/m.	2	5	0
	546–5/131	———	2	10	0
	623–6/131	**Gundlach**	3	0	0
	*693–19	**Swift**	2	10	0
	887/131	**Swift**, N.A. 0·92	2	10	0
	1/22/131	**Reichert**, No. 7	2	5	0
	*939–8/131	**Loudon***	1	10	0
	19/22	**Leitz**, No. 7	2	10	0
	948–10	**Leitz**, No. 7	2	10	0
	26/22	**Leitz**, No. 7	2	10	0
	27/22	**Leitz**, No. 7	2	10	0
	29/22	**Beck***	2	0	0
	30/22/131	**Baker**, N.A. 0·85	2	5	0
	31/22/131	**Watson**, N.A. ·88	2	10	0

* With Correction Collar.

Apparatus lotted and sent to Auction.

Droits reservés au Cnam et à ses partenaires

		OBJECTIVES.—Continued.	£	s.	d.
1/9 inch	799–26	**Zeiss,** E.	3	10	0
	874	**Voigtlander,** No. 8	3	0	0
	871	**Zeiss,** E.	3	10	0
	734–10	**Zeiss,** E.	3	10	0
	880	**Zeiss,** E.	3	10	0
	881/131	**Leitz,** No. 8	3	0	0
	840	**Katera,** No. 8	2	10	0
	7/23/131	**Zeiss,** E.	3	0	0
	883/131	**Leitz,** No. 8	3	0	0
	884/131	**Zeiss,** E.	3	10	0
	3/23	**Zeiss,** EF.*	7	0	0
	4/23	**Watson**	2	15	0
	847–13/131	**Zeiss,** E.	3	10	0
	887/131	**Zeiss,** E.	3	10	0
	1/23/131	**Zeiss,** E.	3	10	0
	2/23	**Watson,** Para.	2	15	0
	5/23/131	**Reichert,** No. 8.	2	10	0
1/10 in.	*841–23/131	**Ross**	2	10	0
	816/131	**Watson**	2	10	0
1/12 inch	360–10	**Natchet**	2	10	0
	*413–16	**Reichert,** IX.	4	0	0
	599–7	**Reichert,** No. 9	3	10	0
	1/25	**Leitz,** No. 9	4	10	0
1/14 in.	833/131	**Zeiss,** F.	4	10	0
	847–14/131	**Zeiss,** F.	3	10	0
	885–23/131	**Zeiss,** F.	4	10	0
	834/131	**Zeiss,** F.	4	10	0
1C (b) 133 ACHROMATIC—Water Immersion.					
1 inch	563/133	**Swift,** 25 m/m	1	10	0
	908–22/133	**Zeiss,** 33 m/m, Plankton	1	10	0
	1/27	**Zeiss,** Plankton	2	10	0
1/4 inch	*544/133	**Powell & Lealand**	5	0	0
1/6 inch	New	**Baker,** $\frac{1}{8}$in.	5	10	0
	847–15/133	**Zeiss,** D.*	4	10	0
	908–20/133	**Zeiss,** D.*	4	10	0
	1/29	**Zeiss,** D.*	4	0	0
1/12 inch	D43	**Powell & Lealand,** N.A. 0·99. Catalogue price, £12	4	10	0
1/14 inch	*416–8	**Powell & Lealand,** N.A. 1·21. Catalogue price, £18	6	0	0
1/16 inch	286–2	**Powell & Lealand**	6	0	0
1/20 inch	520/133	**Zeiss,** L.	8	0	0
1C (c) 133 ACHROMATIC—Oil Immersion.					
1/10in.	*357–23	**Powell & Lealand**	5	10	0
	613	**Pillischer,** $\frac{1}{9}$in.	1	10	0
	775/133	**Beck,** 4 m/m, in short mount for metallurgy	2	10	0
	908–19/133	**Zeiss,** 1/7, N.A. 0·9	4	10	0
	*948–13	**Beck**	2	10	0
1/12 inch	24/35/133	**Swift,** N.A. 1·30	4	10	0
	29/35	**Beck,** 2 m/m, N.A. 1·25	3	10	0
	1/33	**Powell & Lealand,** N.A. 1·40	10	0	0
	631/133	**Powell & Lealand**	9	0	0
	*612	**Powell & Lealand,** N.A. 1·50	15	0	0
	57/35	**Beck,** 2 m/m	4	0	0

* With Correction Collar.

Apparatus let out on Hire, see page 36.

Droits reservés au Cnam et à ses partenaires

		OBJECTIVES.—Continued.	£	s.	d.
1/12 inch	37/35	**Reichert,** N.A. 1·25	4	0	0
	41/35	**Swift,** N.A. 1·30	4	10	0
	43/35	**Baker**	4	0	0
	44/35	**Beck**	4	0	0
	58/35/133	Continental	3	0	0
	57/35	**Beck,** 2 m/m	4	0	0
	64/35	**Zeiss,** N.A. 1·25	4	0	0
	66/35	**Swift,** N.A. 1·30	4	0	0
	47/35	**Bausch & Lomb,** N.A. 1·30	4	10	0
	54/35	**Prior,** N.A. 1·30	4	0	0
	55/35	**Leitz,** N.A. 1·30	4	10	0
1/16in.	458–26/133	**Baker, N.A. 1·32**	5	10	0
	583/133	**Swift, N.A. 1·30**	4	10	0
	617	**Reichert,** $\frac{1}{16}$in., N.A. 1·25	3	5	0
	620	**Leitz,** N.A. 1·30, 170 m/m tube	5	0	0
	677	**Beck,** 1·5 m/m	3	10	0
	695/133	**Reichert,** $\frac{1}{16}$in., N.A. 1·25	3	5	0
	731/133	**Koristka,** $\frac{1}{16}$in. semi-appo., N.A. 1·30	6	10	0
	1/36/133	**Leitz** Fluorite, N.A. 1·32	7	10	0
1/18 inch	603	**Reichert**	4	10	0
	822–9/133	**Reichert,** N.A. 1·30	7	0	0
	737/133	**Reichert,** o.i., N.A. 1·30	4	15	0
	748/133	**Koristka,** semi-appo., N.A. 1·30	5	17	6
	1/37/133	**Himmler,** 1·4 m/m, N.A. 1·30	3	10	0
1C (d) 133 APOCHROMATIC. For long tube, unless otherwise noted.					
	642/133	**Leitz,** 2 m/m, N.A. 1·40, 160 m/m tube	12	10	0
	691/133	**Zeiss,** 12 m/m, N.A. 0·65, 250 m/m tube	9	0	0
	*724/133	**Zeiss,** 6 m/m, N.A. 0·95, 250 m/m tube	7	10	0
	*626/133	**Powell & Lealand,** oil immersion, N.A. 1·40	10	0	0
	286–2/133	**Powell & Lealand,** $\frac{1}{16}$in.	6	0	0
	*316–2/133	**Powell & Lealand,** $\frac{1}{12}$in., N.A. 1·40	8	0	0
	640	**Zeiss,** 24 m/m, N.A 0·30	9	9	0
	359–10/133	**Zeiss,** 12 m/m, N.A. 0·65	10	10	0
	‡583/133	**Leitz,** 2 m/m, N.A. 1·32	12	10	0
	662	**Zeiss,** 3 m/m, N.A. 0·95, 160 m/m tube	8	15	0
	673	**Zeiss,** 3 m/m, N.A. 0·95, 250 m/m tube	8	10	0
	799–8	**Zeiss,** 4 m/m, N.A. 0·95, 250 m/m tube	6	10	0
	708	**Zeiss, 3 m/m, N.A. 0·95, 160 m/m tube**	8	0	0
	383	**Zeiss,** 2 m/m, N.A. 1·30, 190 m/m tube, in short mount for metallurgy	12	0	0
	*716–8	**Zeiss,** 3 m/m, N.A. 0·95, 160 m/m tube	7	0	0
	703	**Zeiss, 12 m/m, N.A. 0·65, 250 m/m tube**	9	0	0
	720/133	**Zeiss,** 3 m/m, N.A. 0·95, 160 m/m tube, with funnel stop	8	10	0
	*721/133	**Zeiss,** 4 m/m, N.A. 0·95, 250 m/m tube	7	0	0
	850–6/133	**Hartnach,** 2 m/m	3	0	0
	868–9/133	**Zeiss,** 6 m/m, N.A. 0·95, 250 m/m tube	7	10	0
	868/10/133	**Zeiss,** 24 m/m, N.A. 0·30, 250 m/m tube	9	0	0
	868–11/133	**Zeiss,** 12 m/m, N.A. 0·65, 250 m/m tube	9	0	0
	868–14/133	**Zeiss,** 3 m/m, N.A. 1·40. 250 m/m tube	12	10	0
	872/18/133	**Zeiss,** 24 m/m, N.A. 0·30, 250 m/m tube	9	0	0
	872/19/133	**Zeiss,** 12 m/m, N.A. 0·65, 250 m/m tube	9	0	0
	877–10/133	**Leitz,** 8 m/m, N.A. 0·65, 160 m/m tube	6	0	0
	885–17/133	**Zeiss,** 4 m/m, N.A. 0·95, 160 m/m tube	8	0	0
	15/38/133	**Watson,** 16 m/m, N.A. ·30, 160 m/m tube	3	0	0
	965–6	**Zeiss,** 4 m/m, N.A. 0·95, 190 m/m tube for metallurgy	6	15	0

* With Correction Collar.

Apparatus Purchased for Cash.

Droits reservés au Cnam et à ses partenaires

		OBJECTIVES.—Continued.	£	s.	d.
1C (d) 133	73	**Zeiss,** 4 m/m, N.A. 0·95, 160 m/m tube	8	0	0
	10/38	**Zeiss,** 3 m/m, N.A. 0·95, 160 m/m tube, dry	9	0	0
	11/38	**Watson,** 4 m/m, N.A. ·85, 200 m/m tube	4	10	0
	12/38	**Zeiss,** X., N.A. 0·85, 160 m/m tube, suitable for darkground illumination	5	10	0
	13/38	**Zeiss,** 2 m/m, N.A. 1·40, 160 m/m tube	12	10	0
	950–5	**Zeiss,** 2 m/m, N.A. 1·30, 160 m/m tube	10	10	0
	14/38	**Zeiss,** 60 H.1, N.A. 1·0–07, with iris, 160 m/m tube	9	0	0
	952–1/133	**Zeiss,** 2 m/m, N.A. 1·40, 160 m/m tube	12	10	0
	*952–2/133	**Zeiss,** 4 m/m, N.A. 0·95, 160 m/m tube	8	0	0
	952–3/133	**Zeiss,** 8 m/m, N.A. 0·65, 160 m/m tube	6	0	0
	3/38	**Zeiss,** 8 m/m, N.A. 0·65, 160 m/m tube	6	10	0
	930–7	**Watson,** 4 m/m, N.A. ·85, 200 m/m tube	5	10	0
	4/38	**Zeiss,** 2 m/m, N.A. 1·30, 160 m/m tube	12	0	0
	885–22/133	**Zeiss,** 16 m/m, N.A. 0·30, 160 m/m tube	4	0	0
	885–18/133	**Zeiss,** 1·5 m/m, N.A. 1·30, 250 m/m tube	10	0	0
	5/38/133	**Zeiss,** 8 m/m, N.A. 0·65, 160 m/m tube	6	0	0
	6/38/133	**Zeiss,** 4 m/m, N.A. 0·95, 160 m/m tube	6	10	0
	885–20/133	**Zeiss,** 2·5 m/m, W.1, N.A. 1·25, 160 m/m tube	10	0	0
	8/38/133	**Beck,** 8 m/m, N.A. 0·65, 160 m/m tube	6	0	0
	905–7/133	**Zeiss,** 2 m/m, N.A. 1·40, 160 m/m tube	10	10	0
	905–8/133	**Zeiss,** 3 m/m, N.A. 0·95, 160 m/m tube	12	0	0
	905–9/133	**Zeiss,** 3 m/m, N.A. 1·30, 250 m/m tube	12	0	0
	903–16/133	**Zeiss,** 2 m/m, N.A. 1·30, 250 m/m tube	10	0	0
	908–17/133	**Zeiss,** 8 m/m, N.A. 0·65, 160 m/m tube	6	0	0
	915–12/133	**Zeiss,** 16 m/m, N.A. 0·30, 160 m/m tube	4	0	0
	915–13/133	**Zeiss,** 8 m/m, N.A. 0·65, 160 m/m tube	6	0	0
	915–14/133	**Zeiss,** 3 m/m, N.A. 0·95, 160 m/m tube	8	0	0
	915–16/133	**Zeiss,** 1·5 m/m, N.A. 1·30, 160 m/m tube	10	0	0
	885–21/133	**Zeiss,** 2·5 m/m, W.1, N.A. 1·25, 250 m/m tube	10	0	0
	737/133	**Leitz,** 8 m/m	5	0	0

1C (e)	**PROJECTION.** For use without eyepiece.				
	524/133	**Zeiss,** 35 m/m	1	15	0
	529	**Voigtlander,** 38 m/m, Euryscop	1	10	0
	868–12/133	**Zeiss,** 70 m/m	1	15	0
	534/133	**Voigtlander,** 38 m/m, Euryscop	1	10	0
	535/133	**Zeiss,** 35 m/m	1	15	0
	2/39/133	**Aldis,** 3in. Anastigmat F/6·5	2	0	0
	4/39/133	**Zeiss,** Planar, F/4·5, 20 m/m	4	10	0
	5/39/133	**Voigtlander** Projection Lens		10	6

D. EYEPIECES.

(a) Huyghenian. (b) Compensating. (c) Projection. (d) Special.

			£	s.	d.
1D (a)	**HUYGHENIAN.**				
	72/133	No. 2, 23·2 m/m gauge	0	6	0
	399–5	No. 3, 23·2 m/m gauge ..... each	0	7	0
	458–3/133	**Baker,** No. 1, 23·2 m/m gauge ..... each	0	7	0
	458–10/133	No. 2, 23·2 m/m gauge ..... each	0	7	0

* With Correction Collar.

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Droits reservés au Cnam et à ses partenaires

EYEPIECES—Continued.

			£	s.	d.
1D (a)	838	No. 3, 23·4 m/m gauge	0	7	0
	849	No. 3, 24·5 m/m gauge	0	7	0
	959/133	No. 3 ocular, 23·2 m/m	0	8	6
	961/133	**Baker,** B capped Eyepieces	0	7	6
	458–12/133	**Baker,** No. 2, 23·2 m/m	0	7	0
	920/133	Pair capped, A power, 34·7 m/m	1	5	0
	35/133	No. 3, 23·2 m/m gauge	0	7	0
	127/133	**No. 3, 23·2 m/m gauge**	0	6	0
	976	B. Eyepiece, **23·2 m/m** gauge	0	6	6
	149/133	**Messter,** No. 3, 23·2 m/m gauge	0	7	0
	47/133	**Leitz,** No. 3, 23·2 m/m gauge	0	7	6
	94	No. 2, **23·2** m/m gauge	0	6	0
	84	**Beck,** No. 1, 23·2 m/m gauge	0	7	0
	86/40	**Zeiss,** No. 3, 23·2 m/m gauge	0	8	0
	89/40	**Zeiss,** No. 1, 23·2 m/m gauge	0	8	0
	72/40	No. 2 Eyepiece, 23·2 m/m gauge	0	6	0
	921–9/133	No. 4 Eyepiece, 23·2 m/m gauge	0	6	0
	921–10/133	No. 2 Eyepiece, 23·2 m/m gauge	0	6	0
	75/40	No. 2, 23·2 m/m gauge	0	6	0
	77/40	No. 3, 23·2 m/m gauge	0	6	0
	61	No. 2, 23·2 m/m gauge	0	6	0
	152/133	**Leitz,** No. 2, 23·2 m/m gauge	0	6	0
	82/40	No. 3, 23·2 m/m gauge	0	6	0
	83/40	**Beck,** × 15, 23·2 m/m gauge	0	8	6
	84/40	**Zeiss,** No. 4, 23·2 m/m gauge	0	6	0
	85/40	**Zeiss,** × 5, 23·2 m/m gauge	0	6	0
	150/133	No. 1, 23·2 m/m gauge	0	6	0
	177/133	No. 3 Eyepiece, 23·2 m/m gauge	0	6	0
	182/133	**Zeiss,** × 5, 23·2 m/m gauge	0	7	0
	184/133	Pair of **Leitz,** 12·5, 23·2 m/m gauge	0	15	0
	188/133	**Zeiss,** No. 3, 23·2 m/m gauge	0	6	0
	190/133	No. 0, 23·2 m/m gauge	0	6	0
	1/40/133	No. 2, 23·2 m/m gauge	0	6	0
	2/40/133	No. 3, 23·2 m/m gauge	0	6	0

1D (b) EYEPIECES (COMPENSATING).

All of which are for the long tube, unless otherwise stated (23·2 m/m gauge—short tube).

		£	s.	d.
838/133	**Zeiss,** No. 18, 30·5 m/m gauge	1	0	0
840/133	**Zeiss,** No. 4, 30·5 m/m gauge	1	0	0
841/133	**Zeiss,** No. 2, 30·5 m/m gauge	1	0	0
843–6/133	**Zeiss,** No. 12, 26·3 m/m gauge	1	5	0
694/133	× 10 power, 23·2 m/m gauge	1	10	0
659	No. 8 power, 23·2 m/m gauge	1	10	0
696/667/665–663	No. 4, 23·2 m/m gauge	1	0	0
723–8	No. 12, 31·2 m/m gauge	0	15	0
684	No. 12, 23·2 m/m gauge	1	7	6
468–14/133	Compensating ocular, No. 0, 23·2 m/m gauge	1	1	0
857/133	**Zeiss,** No. 8, 23·2 m/m gauge	1	5	0
859/133	**Reichert,** No. 6, 23·2 m/m gauge	0	18	0
905–12/133	**Zeiss,** No. 6, 23·2 m/m gauge	0	18	0
915–1/133	**Zeiss,** No. 8, 23·2 m/m gauge	1	0	0
915–3/133	**Zeiss,** × 3, 23·2 m/m gauge	1	0	0
965–9	**Zeiss,** K.12, × 15, 23·2 m/m gauge	1	5	0

Our Second-hand Catalogue is never complete—we are constantly adding.

Droits reservés au Cnam et à ses partenaires

EYEPIECES (COMPENSATING).—Continued.

1D (b)		£	s.	d.
915–7/133	**Zeiss,** No. 2, 23·2 m/m gauge	1	0	0
861/133	**Zeiss,** No. 4, 30·5 m/m gauge	1	0	0
706/133	**Swift,** 23·2 m/m gauge	1	0	0
548	**Zeiss,** No. 8, 30·6 m/m gauge	2	10	0
576/133	No. 2, power, 30·6 m/m gauge. Catalogue price, £2	1	8	0
730	**Zeiss,** No. 4, 30·7 m/m gauge, 250 m/m tube	2	0	0
638	**Swift,** No. 12 power, 31·2 m/m gauge	1	10	0
664	**Zeiss,** No. 8, 33·2 m/m gauge	2	5	0
624	**Zeiss,** No. 12 power, 32·2 m/m gauge	2	0	0
612/133	**Zeiss,** ×8 power, 32·84 m/m gauge	2	5	0
639	**Swift,** No. 12, 31·2 m/m gauge	1	10	0
658	No. 27, 31·2 m/m gauge	1	15	0
626	**Zeiss,** No. 18, 30·5 m/m gauge	1	10	0
780	**Crouch,** ×8, 23·2 m/m gauge	0	15	0
20/41/133	**Zeiss,** ×5, 23·2 m/m gauge	1	0	0
950–8	**Zeiss,** No. 6, 23·2 m/m gauge	0	18	6
950–13	**Zeiss,** No. 2, 23·2 m/m gauge	0	18	6
9/41	**Zeiss,** K.2, ×3, 23·2 m/m gauge	1	0	0
10/41	**Zeiss,** K5, 23·2 m/m gauge	1	0	0
12/41	**Zeiss,** K.12, ×15, 23·2 m/m gauge	1	5	0
14/41	**Zeiss,** K.4, ×6, 23·2 m/m gauge	1	0	0
16/41	**Zeiss,** K.7, 23·2 m/m gauge	1	0	0
17/41	**Zeiss,** No. 4, 23·2 m/m gauge	0	18	6
19/41	**Zeiss,** No. 3, 23·2 m/m gauge	0	18	6
800	**Zeiss,** No. 4, 23·2 m/m gauge	0	15	0
799–9	Set of 4 **Zeiss** Nos. 4, 8, 12 and 18, 30·3 m/m gauge	5	0	0
2/41	**Zeiss,** No. 27, 30·5 m/m gauge	1	0	0
930–12	×14, 23·2 m/m gauge	1	0	0
930–13	×10, 23·2 m/m gauge	1	0	0
931–4	No. 6, 23·2 m/m gauge	1	0	0
4/41	**Beck,** 22 m/m, 23·2 m/m gauge	1	0	0
814/133	**Zeiss, No. 4, 23·2 m/m gauge**	**0**	**18**	**6**
815	**Leitz, No. 4, 23·2 m/m gauge**	**0**	**16**	**0**
816	**Leitz, No. 12, 23·2 m/m gauge**	**1**	**0**	**0**
817	**Leitz, No. 6, 23·2 m/m gauge**	**0**	**16**	**0**
8/41/133	No. 12, 23·2 m/m gauge	0	15	0
6/41	**Zeiss,** No. 12, 30·6 m/m gauge	1	0	0
711	**Swift,** No. 4, 23·2 m/m gauge	1	2	6
708	**Powell & Lealand,** No. 5, 23·2 m/m gauge	0	18	6
776	**Reichert,** No. 4, 23·2 m/m gauge	0	15	0
777	**Reichert,** No. 8, 23·2 m/m gauge	1	0	0
779	**Zeiss,** No. 4, 23·2 m/m gauge	0	16	6
755	No. 8, 23·2 m/m gauge	0	15	0
714–13	**Zeiss,** No. 4, 23·2 m/m gauge	0	18	0
833/133	**Messter,** No. 12, 23·2 m/m gauge	0	18	0
761/133	**Baker,** No. 4, 23·2 m/m gauge	0	18	6
761–16	**Zeiss,** No. 4, 23·2 m/m gauge	0	15	0
820–12/133	**Zeiss,** No. 27, Compensating Ocular, 30·5 m/m gauge	1	15	0
766	**Swift,** ×8, 23·2 m/m gauge	1	0	0
792	**Powell & Lealand,** ×20, capped, 23·2 m/m gauge	1	15	0
783	**Zeiss,** No. 12, 33·2 m/m gauge	2	0	0
848/133	**Zeiss,** No. 2, 23·2 m/m gauge	1	0	0
849/133	**Reichert,** No. 12, 23·2 m/m gauge	0	18	0
851/133	**Zeiss,** No. 6, 23·2 m/m gauge	0	16	0

Apparatus Sold on Commission.

Droits reservés au Cnam et à ses partenaires

EYEPIECES (COMPENSATING).—Continued.

1D (b)		£	s.	d.
852/133	**Crouch,** ×12, 23·2 m/m gauge	0	15	0
873–8/133	×12, 23·2 m/m gauge	0	15	0
873–10/133	×8, 23·2 m/m gauge	1	0	0
873–16/133	**Zeiss,** No. 18, 30·5 m/m gauge	1	0	0
873–17/133	**Zeiss,** No. 27, 30·5 m/m gauge	1	0	0
713/133	**Winkel,** No. 2, 23·2 m/m gauge	0	18	6
716/133	**Winkel,** No. 6, 23·2 m/m gauge	0	18	6
771	**Zeiss,** No. 4, 23·2 m/m gauge	0	16	6
749	**Reichert,** No. 12, 23·2 m/m gauge	1	0	0
425–21	No. 4, 23·2 m/m gauge	1	5	0
729	**Zeiss,** No. 8, 30·7 m/m gauge	2	0	0
723/133	**Zeiss,** No. 6, 23·2 m/m gauge	0	18	0
885–27/133	**Zeiss,** No. 6, 23·2 m/m gauge	0	18	0
1/41/133	**Zeiss,** No. 1, 23·2 m/m gauge	1	0	0
829	**Zeiss,** No. 27, Compensating Ocular, 33·3 m/m gauge	2	0	0
819	**Leitz,** No. 4, 23·2 m/m gauge	0	16	0
820	**Leitz,** No. 8, 23·2 m/m gauge	1	0	0
823	**Leitz,** No. 4, 23·2 m/m gauge	0	16	0
824	**Leitz,** No. 6, 23·2 m/m gauge	0	16	0
952–4	**Leitz,** No. 2, 23·2 m/m gauge	1	0	0
952–5	**Leitz,** No. 4, 23·2 m/m gauge	1	0	0
952–6	**Leitz,** No. 6, 23·2 m/m gauge	1	0	0
952–7	**Leitz,** No. 8, 23·2 m/m gauge	1	0	0
952–8	**Leitz,** No. 12, 23·2 m/m gauge	1	0	0
952–9	**Leitz,** No. 18, 23·2 m/m gauge	1	0	0
827	No. 8, 23·2 m/m gauge	0	15	0
714/133	**Swift,** No. 12, 23·2 m/m gauge	1	5	0
715/133	**Swift,** ×8, 23·2 m/m gauge	1	5	0
719/133	**Zeiss,** No. 4, 250 m/m tube	1	0	0
598–5/133	**Swift,** No. 4, 30·5 m/m gauge	1	5	0
598–6/133	**Swift,** No. 12, 30·5 m/m gauge	1	5	0
789	**Zeiss,** No. 4, 23·2 m/m gauge	0	16	6
799	**Zeiss,** No. 18, 36 m/m gauge	2	0	0
812/133	**Koristka,** No. 4, 23·2 m/m gauge	0	15	0
817–7	**Leitz** No. 4, 23·2 m/m gauge	0	15	0
847/133	**Reichert,** No. 8, 23·2 m/m gauge	0	18	6
845/133	**Reichert,** No. 7, 23·2 m/m gauge	0	18	0
889–17/133	**Zeiss,** No. 4, eyepiece, 23·2 m/m gauge	0	18	6
D (c) 133 PROJECTION.				
287–13	**Zeiss,** No. 6, 36·5 m/m gauge	2	10	0
526	**Swift,** No. 6, 36·4 m/m gauge	2	0	0
403–7	**Zeiss,** No. 3, 29·3 m/m gauge	2	10	0
527/133	**Watson** projection, 33·2 m/m gauge	2	0	0
541	**Leitz,** No. 2, 23·2 m/m gauge	2	10	0
684–28/133	**Zeiss,** No. 3, 30·5 m/m gauge	2	0	0
813–13/133	**Zeiss** No. 2, 23·2 m/m gauge	2	10	0
820–10/133	**Zeiss,** No. 3, 30·5 m/m gauge	2	0	0
1/42	**Zeiss,** No. 2, 30·5 m/m gauge	2	0	0
931–3	**Watson,** 23·2 m/m gauge	1	0	0
D (d) SPECIAL.				
780/133	Pair of **Kellner** C. Capped Eyepieces, 33 m/m gauge	2	0	0
566/133	**P. & L.,** ×7½ on Nelson formula	1	1	0
27/43	**Zeiss,** ×7, Orthoscopic, 23·2 m/m gauge	1	0	0
28/43	**Watson,** ×20, Holos 23·2 m/m gauge	1	5	0
29/43	×15 Periscopic Eyepiece, 23·2 m/m gauge	0	15	0

Apparatus Sold on Commission.

Droits reservés au Cnam et à ses partenaires

EYEPIECES.—Continued.

D (d) SPECIAL		£	s.	d.
535	Pair **Beck** C Eyepieces, with micrometer	1	6	0
513/133	Achro. A Eyepiece, 30·5 m/m	1	0	0
357–26/133	Pair **P. & L.** Kellner B Eyepieces, 36·4	2	2	0
832/133	**Watson,** × 7 Holos, 32 m/m gauge	1	10	0
413–23/133	Orthoscopic, No. 6, 23·2 m/m	1	0	0
719/133	B. Capped Eyepiece, 33·2 m/m	0	10	6
727/133	Pair of B. Capped Eyepieces, 32 m/m gauge	1	1	0
721	A. Capped Eyepiece, 30·5 m/m gauge	0	10	6
710/133	**Holos,** ×7, 32·5 m/m gauge	1	10	0
704/133	Media Ocular, ×12	1	10	0
14/43	Pair of **Leitz** Orthoscopic Kellner Eyepieces, F/15, 23·2 m/m gauge	2	0	0
15/43	Pair of **Leitz,** F/18 Kellner Orthoscopic Eyepieces, 23·2 m/m gauge	2	0	0
842/133	Orthoscopic **Kellner** Eyepiece, F/18, 23·2 m/m gauge	1	0	0
739–5	Holos, × 10, 32·5 m/m gauge	1	10	0
758	**Ross-Kellner** Eyepiece, C., 33·5 m/m gauge	1	0	0
757	**Holos,** ×7, with cross lines, 32 m/m gauge	2	0	0
768	**Holos,** ×5, 32 m/m gauge	1	15	0
553	Eyepiece, 33·8 m/m gauge	0	6	6
NEW	**Watson,** Holos, ×7, 32·3 m/m gauge	1	15	0
732	B. Capped Eyepiece, 23·2 m/m gauge	0	10	6
786	Centring Eyepiece	0	15	0
787	Centring Eyepiece	0	15	0
783	A. Capped Eyepiece, 30·5 m/m gauge	0	10	6
782	Capped Eyepiece, No. 5, 23·2 m/m gauge	0	7	6
799–14	**Ross Kellner,** C., 33 m/m gauge	1	0	0
800–5	B. Capped Eyepiece, 33 m/m gauge	0	12	6
799/133	Low Power, Capped Eyepiece, 31·3 m/m gauge	0	10	6
787–15	Capped Eyepiece, 32·5 m/m gauge	0	10	6
807	**Leitz Bertrand** Bi-quartz Eyepiece	1	10	0
6/43	**Leitz** No. 2 Demonstration Eyepiece, in case	3	0	0
777	**Holos,** ×10 Eyepiece, 32 m/m gauge	1	5	0
826–7/133	E. Capped Eyepiece, 30·5 m/m gauge	0	10	0
826–8/133	**Kellner's** Orthoscopic Eyepiece, 33·2 m/m gauge	0	15	0
826–9/133	B. Capped Eyepiece, 30·5 m/m gauge	0	10	0
826–10/133	Centring Eyepiece	0	15	0
828/133	Pair of **Zeiss,** 12·5 Orthoscopic, 23·2 m/m gauge	1	10	0
827–5/133	**Ross-Kellner,** C. Capped Eyepiece, 1·27 inch gauge	1	0	0
788	Centring Eyepiece	0	15	0
773	Pair **Zeiss,** No. 4, Orthomorphic Eyepieces, 23·2 m/m gauge	1	1	0
734	Pair A. Capped Eyepieces, 32·3 m/m gauge	1	1	0
474–1/133	**Gifford** Ramsden, 25·4 m/m, 23·2 m/m gauge.....each	2	2	0
474–2/133	Two **Gifford** Ramsden, 12·7 m/m, 23·2 m/m.....each	2	2	0
797/133	**Gifford** Eyepiece, 37·5 m/m gauge, huyghenian	0	15	0
806–18	**Gifford** Eyepiece, 28·5 focus, 30·5 m/m gauge, orthochromatic	1	0	0
776	**Holos,** ×7 Eyepiece, 32 m/m gauge	0	15	0
784	A. Capped Eyepiece, 32 m/m gauge	0	10	6
781	B. Capped Eyepiece, 23·2 m/m gauge	0	7	6
NEW	**Leitz** Comparison Eyepiece, in case	9	18	0
20/43	Pair of **Zeiss,** ×26, Orthoscopic, 23·2 m/m gauge	2	10	0

Apparatus Purchased for Cash.

Droits reservés au Cnam et à ses partenaires

E. ILLUMINATING APPARATUS.

(a) Lamps and other illuminants. (b) Substage Condensers—Chromatic (c) Substage Condensers—Achromatic. (d) Substage Condensers—Apochromatic. (e) Substage Condensers—Immersion. (f) Substage Illuminators and Fittings—Various. (g) Bull's-eye Condensers on Stands. (h) Condensers, Reflectors, etc., for opaque Illumination. (j) Micro-Polarisation Apparatus.

1E (a) LAMPS AND OTHER ILLUMINANTS.

		£	s.	d.
606/140	Oil Lamp, with porcelain chimney, no case	0	15	0
609/144	D.C. Pointolite Resistance, with lamp holder and flex...	3	10	0
804–19/140	Oil Lamp, in case	1	0	0
614	**Ogilvy** 5 Amp. Resistance for Arc Lamp, 100 v.	0	15	0
616	**Ediswan** Pointolite Resistance, 30 c.p., 100 v., D.C. ...	1	10	0
821–7/141	Oil Lamp, in case	0	10	0
618	**Ediswan** Pointolite Resistance, 30 c.p., 240 v., D.C.	1	10	0
626/143	Bulb Lamp, on stand	0	10	0
873–1/146	Oil Lamp, in case	1	0	0
633/141	**Baker** Oil Lamp	1	0	0
894–7/140	**Leitz** Tubular Resistance, 200 v., 4·5 amp.	1	5	0
888–23/143	Incandescent Bulb Lamp	0	10	0
888–32/143	Incandescent Bulb Lamp	0	10	0
5/44/142	**Leitz** Monla Lamp, with resistance 230v.	4	0	0
6/44/144	8-volt Resistance for 100 v. circuit	1	5	0
940–3/148	A.C. Pointolite bulb and resistance, 230-250 v., 150 C.P.	3	10	0
888–34/140	Mercury Vapour Lamp, complete with resistance	5	0	0
903–23/140	**Nernst** Lamp, on stand, with filter carrier	1	0	0
9/44/140	Oil Lamp, in case	0	10	0
10/44/140	Oil Lamp, in case	0	15	0
12/44/140	Projection Lamp, on stand, with 230 v., 250 w. lamp	1	15	0

1E (b) SUBSTAGE CONDENSERS—CHROMATIC.

All of universal gauge, 38·786 m/m (1·527in.) unless otherwise stated.

713/132	Low Power Condenser, with sliding stop	0	15	0
720/132	3-lens Condenser, with supplementary lens for lower power work (optical part only)	2	0	0
667/132	**Low Power** Condenser, with wheel diaphragm	0	17	6
724/132	Low Power Condenser, with iris and wheel of stops (to fit above substage)	1	5	0
621/132	**Hislop** Condenser	1	10	0
	New Spectacle Lens Condenser	0	15	0
	New **Baker** Nelson Low Power Condenser	2	0	0
541–12	3-lens Abbé, mounted for substage, with rack and stop carrier	3	0	0
826–13/132	Low Power Condenser, 30·6 m/m gauge	1	5	0
5/45/132	Low Power Condenser (optical part only)	0	17	6
9/45/132	**Watson** Macro Illuminator	1	15	0
10/45/132	Spectacle Lens Condenser		7	6

Droits reservés au Cnam et à ses partenaires

ILLUMINATING APPARATUS.—Continued. £ s. d.

1E (c) SUBSTAGE CONDENSERS—ACHROMATIC.

All of universal gauge, 38·786 m/m (1·527in.) unless otherwise stated.

566/138	**Pillischer,** 36·3 m/m gauge	3	0	0
595/138	Achromatic Condenser, with iris and stop carrier	4	10	0
598/138	**Baker** Achromatic Condenser (optical part only)	3	15	0
583/138	**Powell & Lealand** Low Power Condenser and wheel of stops	4	0	0
585/138	**Powell & Lealand** Achromatic Condenser, with wheel of stops	4	4	0
609/138	**Swift** Achromatic Condenser, with iris and set of stops	4	10	0
605/138	**Powell & Lealand,** with wheel of stops	4	0	0
694–21/138	**Powell & Lealand,** in substage mount, with wheel of stops	4	0	0
850–7/138	**Baker** Achromatic Condenser, with iris and stop carrier	4	0	0
639/138	**Baker** Quekett Pond Life Condenser (optical part only)	3	10	0
799–21/138	Achromatic Condenser (optical part only)	2	15	0
868–17/138	**Powell & Lealand** Achromatic Condenser, with wheel diaphragm	4	4	0
877–12/138	**Baker** Achro Condenser with iris and stop carrier	3	15	0
4/46/138	**Swift,** with iris and stop carrier	4	4	0
889–19/138	**Powell & Lealand** Achromatic Condenser, with iris and stop carrier	3	15	0
916–5/138	**Beck** (optical part only)	3	10	0
650/138	Achromatic Condenser (optical part only)	3	15	0
5/46/138	**Watson,** Para Condenser (optical part only)	4	0	0
960–6/138	**Zeiss** Achromatic Condenser, N.A. 1·0, with iris, in case	3	0	0
6/46/138	**Watson** Universal, with iris and stop carrier	4	10	0

1E (d) SUBSTAGE CONDENSERS—APOCHROMATIC.

All of universal gauge, 38·786 m/m (1·527in.) unless otherwise stated.

504/138	**Powell & Lealand,** with wheel diaphragm	4	10	0
694–20/138	**Powell & Lealand,** optical part only	4	10	0
905–11/137	**Powell & Lealand,** with wheel diaphragm	4	0	0

1E (e) SUBSTAGE CONDENSERS—IMMERSION.

All of universal gauge, 38·786 m/m (1·527in.) unless otherwise stated.

555/137	**Powell & Lealand** Oil Immersion Condenser, with iris and stop carrier	2	10	0
376–19/137	**Powell & Lealand** Chromatic Oil Immersion	2	10	0
540/137	**Powell & Lealand** Chromatic (optical part only)	2	10	0
551/137	**Powell & Lealand** Truncated Condenser	1	10	0
868–23/137	**Powell & Lealand** Oil Immersion Condenser (optical part only)	4	0	0
559/137	Oil Immersion Condenser, with iris and stop carrier	3	15	0
887–15/137	**Powell & Lealand** Apo. Oil Condenser, with wheel of stops	4	0	0
2/48/137	**Powell & Lealand,** with wheel diaphragm	2	10	0

Apparatus let out on hire, see page 36.

Droits reservés au Cnam et à ses partenaires

	ILLUMINATING APPARATUS.—Continued.	£	s.	d.
1E (f) SUBSTAGE ILLUMINATORS AND FITTINGS—Various.				
All of universal gauge, 38·786 m/m (1·527in.) unless otherwise stated.				
779/137	Spot Lens, in standard mount	0	15	0
780/137	Spot Lens, in sliding tube	0	15	0
782/137	**Watson** Electric Substage Illuminator	1	5	0
785/137	**Watson** Immersion Paraboloid, optical part only	1	0	0
789/137	Paraboloid	0	10	6
790/137	Paraboloid Condenser	0	15	0
763/137	Darkground Condenser	1	5	0
654/137	**Leitz** Cylinder Diaphragm	0	5	0
625/137	Cylinder Diaphragm	0	7	6
704/137	Set of Dark Wells and Holder	0	12	6
709/137	Large Spot Lens	0	7	6
751/137	Spot Lens	0	12	6
718/137	**Wenham** Immersion Paraboloid	1	5	0
720/137	Oil Immersion Paraboloid	1	0	0
721/137	Oil Immersion Paraboloid	1	0	0
734/137	Paraboloid	0	15	0
735/137	Set of Dark Wells and Holder	0	10	0
827–11/137	Prism Illuminator, mounted in substage fitting	0	15	0
794/137	Spot Lens, in standard mount	0	15	0
856–5/137	**Zeiss** Paraboloid, in case	1	5	0
799/137	**Baker** Nelson D.G.I., optical part only	1	0	0
872–9/137	**Ogilvy** Substage Illuminator, with iris and lamp	1	0	0
9/49/137	Spot Lens	0	15	0
950–15/137	**Zeiss** Paraboloid	1	0	0
805–137	Spot Lens	0	15	0
903–20/137	**Zeiss** Darkground Condenser	1	0	0
925–16/137	**Watson** Holos Immersion Paraboloid	1	0	0
804/137	Substage Mount, with iris and stop carrier	0	15	0
2/49	**Ogilvy** Electric Substage Illuminator, with iris and lamp	1	0	0
800/137	**Zeiss** Paraboloid with iris, to fit above substage	1	10	0
741/137	Small Spot Lens	0	7	6
744/137	Spot Lens	0	7	6
747/137	**Nelson** low power Condenser	1	5	0
753/137	Light Modifier	0	7	6
755/137	**Swift** low power Condenser, N.A. 0·50, optical part only	2	5	0
368–7	**Edmund's** Immersion Paraboloid	1	5	0
554–10	Prism Illuminator, mounted in substage fitting	0	15	0
453–13	Achromatic Condenser, with wheel of stops	3	0	0
679	Wheel of Stops, in substage mount	0	7	6
674–8	Set of Darkwells and Holder	0	12	6
671–12	Set of Darkwells and Holder	0	12	6
775/137	**Zeiss** Paraboloid	1	5	0
670/137	**Zeiss** Paraboloid, in case	1	5	0
4/49/137	**Zeiss** Paraboloid, in case	1	5	0
11/49/137	**Leitz** D.G.I., in centring mount N.A. 1·20, as new	3	10	0
12/49/137	**Leitz** D.G.I., in centring mount	2	10	0
960–5/137	**Zeiss** Cardioid Condenser, in case	2	10	0
1E (g) BULL'S-EYE CONDENSERS ON STANDS.				
788/140	4½in. Bull's-eye Condenser	1	5	0
791–6/140	2½in. Bull's-eye Condenser, on stand	1	7	6
710/140	Amici Prism, on stand	1	5	0
17/50/141	1½in. Bull's-eye Condenser, on stand	0	10	0
18/50/141	2in. Bull's-eye Condenser, with universal joints, on stand	0	12	6
959–4/142	2in. Bull's-eye Condenser, on stand	0	12	6

Apparatus let out on Hire, see page 36.

Droits reservés au Cnam et à ses partenaires

1E (g)	ILLUMINATING APPARATUS.—Continued.	£	s.	d.
821–8/140	3in. Collective Lens, on stand	0	10	0
796/140	Prism for oblique Illuminator	0	10	0
861–6/140	2¾in. Bull's-eye Condenser, on stand	1	10	0
869–4/137	**Baker** Filter Carrier	1	0	0
554–8	Amici Prism, on stand, with universal movement	1	5	0
815–5	4in. Bull's-eye Condenser, on stand	1	10	0
11/50/141	4in. **Zeiss** Bull's-eye Condenser, on stand	2	5	0
14/50/141	**Zeiss** Collective Lens, with iris, on stand	2	5	0

1E (h) CONDENSERS, REFLECTORS, etc., for Opaque Illumination.

531/138	Top Light Illuminators	0	15	0
568/138	**Watson** Vertical Illuminator, with iris diaphragm	1	15	0
570/138	**Beal's** Neutral Reflector	0	6	6
950–17/138	Silverside Reflector	0	12	6
5/51/138	**Zeiss** Prism Vertical Illuminator	1	10	0
6/51/138	Silverside Reflector	0	12	6
687–24/138	Silverside Reflector	1	1	0
607/138	Silverside Reflector	0	15	0
609/138	**Leitz** Combined Cover Glass and Prism Vertical Illuminator, with iris diaphragm. New price £5 5s. 0d.	3	15	0
604/138	Silverside Reflector, in case	1	1	0
605/138	Silverside Reflector	0	15	0
844–14/138	Silverside Reflector, in case	0	15	0
617/138	**Reichert** Florence's Opaque Illuminator, with iris diaphragm, condensing lens, filter holder, adjustable mirror for daylight use, 2 spare bulbs, complete in case	3	15	0
846–17/138	**Beals'** Neutral Reflector	0	6	6
874–29/138	Silverside Reflector	0	15	0
2/51	**Reichert** Opaque Illuminator, with iris diaphragm, detachable mirror for daylight use, 2 spare bulbs, ⅔in. and ⅛in. objectives in short mounts, and quick change objective holder, in case	6	10	0
888–18/138	**Sorby's** Silverside Reflector, in case	0	15	0
912–2/138	**Swift** Coverglass Vertical Illuminator, with electrical attachment	3	10	0
8/51/138	**Baker** Electric Coverglass Vertical Illuminator	2	15	0
10/51/138	**Zeiss** Prism Vertical Illuminator, with iris, in case	1	15	0
11/51/138	**Watson** Prism Vertical Illuminator	1	0	0
965–7	**Zeiss** Coverglass Vertical Illuminator, with iris (Beck type)	1	15	0

1E (j) MICRO POLARISATION APPARATUS.

828/132	**Zeiss** No. 2 Abbé Analyser Eyepiece, with divided drum	2	15	0
841–9/132	Rotating Polariser	1	10	0
834/132	Tourmaline, ⅜in. aperture, suitable for mounting over eyepiece	2	0	0
663/132	Stage Polariser, by **Bausch & Lomb**	1	15	0
—	Unmounted Nicol Prisms 15s. to	1	10	0
809/132	Large Nicol Polariser	7	10	0
806–17	Tourmaline, 24 m/m × 17 m/m	5	0	0
790/132	Substage Selenite Carrier, with 3 selenites, to fit substage, 44 m/m diameter	1	15	0
22/52/132	Analyser, to fit capped eyepiece	0	12	6

Apparatus Purchased for Cash.

Droits reservés au Cnam et à ses partenaires

1E (j)	ILLUMINATING APPARATUS.—Continued.	£	s.	d.
853/132	Rotating Selenite Stage, with 3 selenites	2	5	0
873–6/132	Rotating Selenite Stage, with 3 selenites	2	5	0
862/132	Rotating Selenite Stage, with 3 selenites	2	5	0
863/132	Mica Selenite Stage, with 3 selenites	1	10	0
864/132	Polariser and Analyser	2	10	0
898–22/132	Rotating Polariser	1	0	0
872/132	Tourmaline, 20 × 25 m/m	4	0	0
3/52	Large Polariser, with nicol, 25 m/m × 16 m/m × 45 m/m and converging system	7	10	0
6/52/132	Polariser with large nicol and divided drum	2	5	0
7/52/132	**Watson** Eyepiece Analyser, with divided drum	3	0	0
8/52/132	Selenite Stage, with 3 selenites	2	0	0
9/52/132	**Leitz** Eyepiece Analyser, with divided drum, mount to clamp on to draw tube with divisions, Polariser with converging system, complete in case, as new	5	15	0
11/52	**Zeiss** Dichroscope	1	1	0
950–7	Rotating Polariser	1	0	0
16/52/132	Polariser and Analyser	1	15	0
815–10/132	Rotating Selenite Stage	2	0	0
827–7/132	Substage Selenite Carrier, with 3 selenites to fit substage 44 m/m dia	1	15	0
813–12/132	Polariser and Analyser	2	10	0
527/89	**Feild's** Differential Polariscope, with large nicol prism, 35 m/m × 25 m/m, aperture, condensing lens, rack rotation to selenites, in mahogany case, with stand	20	0	0
17/52/132	**Darkers** Substage Selenite Carrier, with 3 selenites	1	15	0
19/52/132	Polariser and Analyser	2	0	0
21/52/132	Rotating Polariser	1	0	0

F. MECHANICAL ACCESSORIES.

(a) For the body. (b) For the stage. (c) For the substage.

1F (a) FOR THE BODY.		£	s	d.
770/137	Objective Slide, with 3 adaptors	1	0	0
794/137	**Powell & Lealand** High Power Prism	2	5	0
889–11/137	Set of 6 **Zeiss** Objective Changers, in case	4	10	0
908–23/137	Set of 6 **Zeiss** Objective Changers, with tube slide, in case	4	10	0
906–9	3 **Zeiss** Objective Changers	2	5	0
909–33/137	4 **Zeiss** Objective Changers, in case	3	0	0
17/53/137	9 **Zeiss** Objective Changers, each	0	15	0
20/53/137	**Davis** Shutter	0	8	6
24/53/137	Set of 4 **Zeiss** Objective Changers, with tube slide	2	15	0

1F (b) FOR THE STAGE.				
683/135	Moist Chamber	0	8	6
663/135	**Leitz** Moist Chamber, to put on stage of microscope, in case	1	0	0

Apparatus Valued.

Droits reservés au Cnam et à ses partenaires

1F (b)	MECHANICAL ACCESSORIES—Continued.	£	s.	d.
649/135	Stage Forceps	0	7	6
627/135	**Watson** Electric Stage, with platinum electrodes on vulcanite	2	0	0
628/135	Electric Stage, with 2 platinum electrodes	2	0	0
655/135	**Zeiss** Safety Focussing Stage, to slide on mechanical stage	1	0	0
573/137	Setting Stage	0	6	6
631/135	Four Special Spring Clips	0	8	0
645/135	Stage Forceps	0	7	6
653/135	Stage Forceps	0	6	6
598–26/135	**Watson** Opaque Disc Revolver	1	15	0
747–12/135	Opaque Disc Revolver	1	15	0
SS	Student's Attachable Mechanical Stage	2	10	0
910–21/135	**Swift** Electric Warm Stage	1	10	0
910–22/135	**Swift** Warm Stage	1	0	0
2/54/135	Reversible Life Cell	0	10	6
4/54/135	**Baker** Attachable Mechanical Stage for Diagnostic Microscope	3	0	0
930–22/135	**Baker** Attachable Mechanical Stage for Diagnostic Microscope	3	0	0
12/54/135	**Swift** Attachable Mechanical Stage	4	0	0
13/54/135	**Spencer** Attachable Mechanical Stage	4	10	0
17/54/135	**Spencer** Attachable Mechanical Stage	4	10	0
18/54/135	**Reichert** Attachable Mechanical Stage	3	10	0

1F (c) FOR THE SUBSTAGE.

G. APPARATUS FOR RECORDING OBSERVATIONS.

(a) Finders. (b) Micrometric. (c) Drawing. (d) Photographic.

1G (a) FINDERS.		£	s.	d.
521/136	**Maltwood** Finder	0	7	6
1G (b) MICROMETRIC.				
601/136	**Jackson** Micrometer Eyepiece, 33·8 m/m	1	0	0
639/136	Micrometer Eyepiece, 33·3 m/m	0	14	6
650/136	**Zeiss** Compensating Micrometer Eyepiece No. 6, without scale	1	0	0
654/136	**Nachet** Micrometer Eyepiece, with micrometer	0	15	0
697/136	Micrometer Eyepiece, 30·5 m/m gauge	0	15	0
662–5/133	Screw Micrometer Eyepiece, 36 m/m gauge	1	15	0
	3in. × 2in. Glass Slips, with ruling 50 m/m × 24 m/m, divided into 2 m/m squares	0	3	0
775–1/136	**Powell & Lealand** Screw Micrometer Eyepiece, 33 m/m gauge	4	4	0
750–14/136	**Zeiss** Abbé Apertometer, in case	5	10	0
821/16/136	**Zeiss** Abbé Apertometer, in case	3	15	0
136–14/136	**Ramsden** Micrometer Eyepiece, with scale, 33·2 m/m gauge	0	15	0
745/136	Capped Micrometer Eyepiece, 35·5 m/m gauge	0	10	0
757/136	**Powell & Lealand** Screw Micrometer Eyepiece, 36·5 m/m gauge	4	0	0
853/133	**Zeiss** No. 6 Comp. Micrometer Eyepiece, with 5 m/m scale, 1 line into 50 parts	1	10	0
764/136	No. 2 Micrometer Eyepiece, with scale 1 line into 50 parts	0	15	0
2/57	**Zeiss** Screw Micrometer Stage, in case	5	0	0
36/57	Screw Micrometer Eyepiece, 32 m/m gauge	4	0	0
37/57	**Zeiss** 10 m/m, Stage Micrometer	0	6	0

Apparatus Sold on Commission.

Droits reservés au Cnam et à ses partenaires

APPARATUS FOR RECORDING OBSERVATIONS.—Continued.		£	s.	d.
1/57/135	**Zeiss** No. 6 Compensated Screw Micrometer Eyepiece, 23·2 m/m gauge	6	0	0
950–16	**Zeiss** Abbé Test Plate	0	17	6
18/57/136	Stage Micrometer, 50 m/m	0	6	0
21/57/136	**Zeiss** Screw Micrometer Stage, in case	7	0	0
32/57/136	Screw Micrometer Eyepiece	4	0	0
34/57/136	**Zeiss** Diffraction Apparatus, with nosepiece adapter	0	15	0

1G (c) DRAWING.

623/136	Rightangle Prism, in mount	0	10	6
750–20/137	**Zeiss** Drawing Prism, as new	1	10	0
800–12/136	**Chevalier** Speculum Camera Lucida	1	5	0
New	**Baker** Drawing Eyepiece	2	10	0
567	Drawing Prism	2	0	0
903–22/136	**Amici** Prism, on stand	0	15	0
2/58/140	**Zeiss** Adjustable Drawing Table	1	5	0
3/58/136	**Zeiss** Right Angle Prism	0	10	0
6/58/136	**Watson** Drawing Eyepiece, 23·2 m/m gauge	1	10	0
11/58/136	**Zeiss** Small Abbé Drawing Apparatus	1	1	0
12/58/136	**Zeiss** Abbé Drawing Apparatus	5	5	0

1G (d) PHOTOGRAPHIC.

311–18/136	Dark Glass, to fit over eyepiece	0	5	6
542/135	**Gordon's** Photomicro Camera	2	10	0
334–9/135	Set of 3 Dark Glasses	0	15	0
580/135	"Davonex" Photomicrographic Attachment with condenser, revolving diaphragm, 3in. objective, complete in case	3	0	0
4/59/135	Set of 9 Wratten M 2″ Square Filters, in case	2	10	0
6/59/135	**Zeiss** Greenough Camera, complete with shutter and 2 dark slides	8	10	0
7/59/S	**Baker** ¼-plate Horizontal and Vertical Photomicrographic Camera, with 1 double darkslide	10	0	0
727–13/135	**2 Wratten** Filters, to fit standard size stop carrier...each	0	4	6
	Set of Gelatine Screens, 3 × 3	0	1	3
403–25	Lantern Body and Base	10	0	0
578/135	**Wratten** M Stand to hold 1 or 2 square filters	0	10	0
574/135	**Gordon's** Photomicro Camera, complete in case	2	10	0
904–19/135	Focussing Magnifier	0	7	6
8/59/135	**Leitz** Photo Micro Attachment (for Leica Camera)	7	10	0

H. APPARATUS FOR COLLECTING, REPAIRING, MOUNTING AND STORING SPECIMENS.

(a) Pond Life Apparatus. (b) Dissecting Microscopes and Apparatus. (c) Microtomes. (d) Microtome Accessories. (e) Mounting Sundries. (f) Specimen Cabinets.

1H (a) POND LIFE APPARATUS.		£	s.	d.
574/541/136	Frog Plate	0	7	6
376–21/136	Frog Plates	0	7	6
666/136	Compressor	1	5	0
562/136	Frog Plate	0	7	6
718/136	Frog Plate	0	5	0
	New **Rousselet** Live Box	0	17	6

Apparatus lotted and sent to Auction.

Droits reservés au Cnam et à ses partenaires

MOUNTING AND STORING SPECIMENS.—Continued.

		£	s.	d.
1H (b) DISSECTING MICROSCOPES AND APPARATUS.				
681/151	**Zeiss** Dissecting Arm, with lens holder, on heavy base...	0	10	0
685/150	Simple Dissecting Arm, with lens holder.....	0	7	6
703/144	**Spencer** Dissecting Microscope, with rack and pinion focussing and doublet lens.....	3	0	0
722/139	Dissecting Arm, with universal joint, to take dissecting lens, on stand	0	15	0
786–18/136	**Brücke** Lens	0	15	0
882–19/139	**Zeiss,** × 12 Loupe Magnifier	0	12	6
783/139 (6)	**Leitz** Simple Dissecting Arm to carry lens, with focussing screw.....	0	7	6
790/142	**Reichert** Dissecting Microscope, with 10 doublet, in case	3	10	0
4/61/139	**Zeiss** Universal Greenough Stand.....	14	0	0
7/61/139	**Zeiss,** × 6, Dissecting Aplanat	0	15	0
8/61/139	**Zeiss** Verant Lens, on handle	1	5	0
12/61/139	**Zeiss** × 6 Dissecting Aplanat	0	15	0
15/61/139	**Zeiss** Dissecting Microscope, with Porro prism erector, 1 eyepiece	7	10	0
18/61/139	**Zeiss** Rack and Pinion Jointed Arm.....	2	0	0
20/61/139	**Zeiss** Spectacle Magnifiers, in case	2	5	0
882–20/139	**Zeiss,** × 5 Doublet	0	5	0
619/136	Head Band, with holders for Magnifiers.....	0	7	6
780/139	**Leitz** Simple Dissecting Stages	0	5	0
877–17/139	**Zeiss** Binocular Loupe, with pair of × 3 lenses	3	0	0
877–19/139	**Zeiss** Combination Dissecting Lens	1	5	0
24/61/S	**Baker** Friction Dissecting Microscope, with × 10 doublet and × 20 aplanat, in case.....	2	10	0
27/61/139	**Leitz** Dissecting Microscope, with × 8 and × 20 aplanats, in case	3	15	0
959–3/139	**Zeiss,** × 6 Dissecting Aplanat.....	0	15	0
28/61/139	**Leitz,** × 10 Dissecting Aplanat.....	0	15	0
29/61/139	**Leitz** Dissecting Stage.....	0	7	6
1H (c) MICROTOMES.				
New	Cambridge Rocking Pattern	7	5	0
19/62/142	**Cathcart** Microtome	2	0	0
20/62/142	Cambridge Rocker Microtome	4	0	0

SPECIAL OFFER

IVES KROMOSCOPE VIEWER MONOCULAR PICTURE
£2 0 0

IVES KROMOSCOPE VIEWER STEREOSCOPIC PICTURE £4 0 0

A VERY LARGE SELECTION OF FINE TRANSPARENCIES

Apparatus let out on Hire, see page 36.

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MOUNTING AND STORING SPECIMENS—Continued.

		£	s.	d.
1H (d) MICROTOME ACCESSORIES.				
535/141	Microtome Knife for the Minot Microtome, in case	1	5	0
537/141	**Valentine** Knife, in case	0	7	6
886–12/141	**Valentine** Knife, in case	0	7	6
3/63/141	14in. Microtome Knife for Jung Sledge Microtome	4	0	0
1H (e) MOUNTING SUNDRIES.				
11/64/141	**Beck** Turntable	0	10	6
1H (f) SPECIMEN CABINETS.				
566/SR	Glass Cabinet for microscope, with beaded edges, lock and key, 20in. high, 15in. wide, 13in. long	2	0	0
539/12	Mahogany Slide Cabinet, to hold 288 specimens	5	10	0
804–21	Mahogany Cabinet, with 31 drawers, holding 750 slides	6	16	0
17/65	Pine Cabinet, with 17 drawers, to hold 200 specimens	0	18	6
7/65/SR	Pine Cabinet, with 28 drawers, to hold 1,000 specimens	3	15	0
20/65/23	Pine Cabinet, with 22 drawers to take 500 specimens	2	10	0

J. SPECIMENS.

600–7/136	**Moller** Type Plate, without list	3	0	0
811/136	Butterfly Scales, arranged as Group of Flowers and Plants	4	10	0
774/136	Proboscis of a Blowfly	0	10	6
776/136	Proboscis of a Blowfly	0	10	6
784/136	Butterfly scales, arranged as Birds and Vase, by Dalton	3	0	0
806–28	**Nine Entomological Anatomy Slides**	0	15	0
797/136	Type Slide Foraminifera, 50 species	1	5	0
893–12/136	Proboscis of a Blowfly by Topping	0	10	6
804/136	Type Slide of Foraminifera, 20 forms, with list	0	4	0
805/136	Type Slide of Foraminifera, 10 forms, with list	0	3	6
806/136	Butterfly Scales, arranged as Cock, Hen and Chicks	2	0	0
807/136	Butterfly Scales, arranged as Men Boxing	1	0	0
810/136	Butterfly Scales arranged as Vase of Flowers and Butterflies	4	10	0
2/66/136	Type Slide Foraminifera, 20 species, with list	0	6	6
6/66/136	Group of Diatoms	0	10	6
13/66/136	Diatom Slide, 50 species, with list	0	17	6
18/66/136	**Zeiss** Centring Glass	0	5	0
20/66	Butterfly Scales arranged as Flowers and Cross	0	15	0
21/66	Scales arranged as Monogram	1	0	0
23/66	Fairy Fly by **Enoch**	0	10	6
28/66	**Zeiss** Abbé Test Plate, in case	0	17	6
29/66	**Moller** Type Slide, 400 diatoms, with names photographed	4	0	0
30/66	**Nobert's** Ruling, 7 lines	3	0	0
31/66	**Moller** Type Slide, 80 diatoms, with names photographed	1	15	0
32/66	Tongue of Blowfly, by Topping	0	10	6
33/66	Proboscis of Blowfly	0	10	6
34/66	Type Slide of Holothuridae, by Moller, with list	0	5	0
36/66	Type Slide, 50 diatoms	1	0	0

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SPECIMENS.—Continued.		£	s.	d.
25/66	Moller Type Slide, 100 forms	1	10	0
26/66	Set of 100 **Prof. Sigmund** Physiological specimens, with books of instructions	6	0	0
27/66	Set of 100 **Prof. Sigmund** Pathological specimens, with books of instructions	6	0	0

K. BACTERIOLOGICAL, HÆMATOLOGICAL APPARATUS, ETC.

THE FOLLOWING ITEMS ARE OF EXCEPTIONAL INTEREST TO BACTERIOLOGICAL LABORATORIES.

K (a) BACTERIOLOGICAL.		£	s.	d.
549	**Baird & Tatlock** Copper Bath for agglutination test, capsule controlled	2	10	0
573/20	**Hearson** Copper Vaccine Bath, for oil, to take 24 test tubes, 10in. dia., depth 8½in.	3	7	6
574/12	**Hearson** Water Bath, for agglutination, for oil, with 10 racks	3	15	0
575/26	Copper Embedding Oven, for oil, to take 12 test tubes, 6in. × 4½in. × 8in.	1	15	0
576/20	6in. Copper Sterilizer, 3½in. dia.	0	7	6
905–23/21	Copper Instrument Sterilizer, 10in. × 6in. × 5in.	1	5	0
7/67	**Hearson** Electric Incubator, 6in. × 6in. × 8in., 200 v.	5	0	0
3/67/159	**Baird & Tatlock** Incubator, for gas, 9 × 9 × 12in.	4	0	0
958–1/159	**Hearson** Incubator, for gas, 12in. × 12in. × 14in.	8	10	0
958–2/28	**Hearson** Centrifuge, 200 v. D.C., with 4 tubes	12	10	0
K (b) HAEMATOLOGICAL.				
551	**Dudgeon's** Sphygmograph, in case	3	0	0
403–11/132	Set of 8 Blood Tubes	1	15	0
448–6/22	Electric Centrifuge, 2 tubes, 5-speed, 100 to 110 volts	7	10	0
562/132	**Down's** Sphymograph, in case	3	0	0
881–13/132	**Dudgeon's** Sphygmograph, in case	3	0	0
2/68/132	**Thoma** Counting Chamber	0	12	6

IF YOU DO NOT SEE——————————

the actual instrument you are desirous of purchasing mentioned in this Catalogue, please remember the stock is changing daily, consequently it is advisable to let us have details of your requirements, as it is more than possible we have such an item in our stock.

Droits reservés au Cnam et à ses partenaires

L. SUNDRY APPARATUS—SECTION I.

		£	s.	d.
667/97	**Pearson** Head Spanner	0	15	0
800–17/18	Well seasoned Mahogany Cabinet, suitable for P. and L., or similar microscope	1	10	0
578	Erector	0	10	6
520/137	Erecting Prism, for microscope	2	5	0
580/137	Oblique Illuminator	0	7	6
778–8/136	**Zeiss** Amici Prism	1	5	3
609–5	Set of Operating Instruments, in mahogany case	9	0	0
513/137	Protecting Rings, for coarse adjustment	0	2	6
566/84	Soloid Water Analysis Case	1	10	0
873–32/139	Mahogany Rotating Table for Microscope	0	7	6
873–38/SR	Mahogany Glazed Cabinet, 9in. × 10in. × 15in. high	1	10	0
676/137	Lever Cover Glass Gauge, on stand	0	15	0
512/144	**Baker** School Projector, complete on stand	5	10	0
503/143	**Leitz** School Projector, with 210V. resistance	5	5	0
863–13/137	**Zeiss Greenough** Prism Rotator, in case	3	10	0
863–14/137	**Zeiss Greenough** Capillary Rotator, in case	2	10	0
863–15/140	Filter Carrier, on stand	0	7	6
898–5/15	Large Microscope Cover, 22in. × 12in. × 17in., wooden frame with celluloid windows	0	15	0
886–16/94	Diamond Cover Glass Cutter	0	15	0
888–22/142	Small Air Pump	0	15	0
905–13/136	**Winkel** Object Marker	2	0	0
905–17/136	Object Marker	0	7	6
678/	**Baker** Metron Reflex Drawing Apparatus, with lamp 210v.	4	0	0
679/142	**Baker** Substage Projector	4	0	0
908–6/S	Model of Head, with movable brain	1	10	0
5/69/147	**Baker** Substage Projector, with Transformer, 200-250v.	5	10	0
516/145	**Baker** School Projector, with resistance, 100-250v.	6	10	0
8/69/137	**Zeiss** Prism Rotator, in case	3	10	0
9/69/137	**Zeiss** Capillary Rotator, in case	2	10	0
10/69/137	**Zeiss** Object Holder	0	15	0
908–10/S	Model of Larynx	1	10	0
908–12/S	Phantom Larynx	1	10	0
908–13/S	Model of Foot	0	10	0
908–14/S	Model of Lower Jaw	0	10	0
1/69/144	**Baker** Projector Lamphouse, on stand	2	5	0
4/69/142	Disarticulated Skull	2	5	0
11/69/142	Small Air Pump	0	12	6
960–3/142	Articulated Skull	3	10	0

SECOND-HAND MICROSCOPICAL SPECIMENS.

We have many thousands of all descriptions. Many by leading mounters.

Per 5/3 doz., postage free.

OUR STOCK IS CHANGING DAILY, PLEASE WRITE US GIVING FULL PARTICULARS OF YOUR REQUIREMENTS IF YOU DO NOT SEE THE PARTICULAR PIECE OF APPARATUS LISTED THAT YOU REQUIRE.

Levels Hired out for the Day or Week.

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SECTION II.

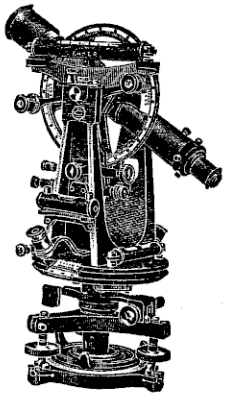
SURVEYING AND DRAWING INSTRUMENTS.

A. THEODOLITES.

(a) Transits. (b) Y Instruments. (c) Everest Pattern. (d) Theodolite Parts

2a (A) TRANSITS.

All of which are divided on silver, reading by verniers and microscope, and packed in mahogany cases unless otherwise stated.



ADJUSTMENT AND REPAIRS TO SURVEYING APPARATUS.

INDEPENDENT of our main works at Balham, we have a workshop in the Holborn, specially equipped for repairing, cleaning and adjusting all kinds of Surveying Apparatus.

We are thus enabled to give each individual order our personal attention whilst in the workshop, and also ensure prompt delivery.

All Theodolites and Levels should be packed in an outer wooden case if being sent by rail.

Estimates will be submitted if requested.

			£	s.	d.
3½ inch	New	**Baker** Traveller's Theodolite and Telescopic Tripod	16	10	0
4 inch	13/68	**Elliott** Omnimeter, reading to 1 minute, 3 levelling screws, diaphragm fitted with web, trough compass, plumb-bob, locking plate.....	30	0	0
	112/68	**Casella,** 3 screw, glass diaphragm, reading by vernier to 1 minute, no vertical circle, bubble on telescope, in case, with accessories and tripod...	15	0	0
4½ inch	152/72	**Adie,** 4-screw, reading to 30 seconds, with circular compass, web diaphragm, no vertical circle, spare eyepiece, in case, with tripod.....	12	0	0
	142/74	**Elliott,** 3-screw, non-transit, reading to 20 seconds, web diaphragm, trough compass, in case, with tripod	15	0	0
	22/70	**Adie,** 4-screw, reading to 20 seconds, web diaphragm, circular compass, no vertical circle, case	15	0	0
5 inch	156/69	**Street,** 4-screw, reading to 20 seconds, web diaphragm, circular compass, complete in case, with tripod	25	0	0
	21/70	**Stanley,** 3-screw, with circular compass, reading to 20 seconds, web diaphragm, 1in. aperture telescope, bubble on telescope, clamp and tangent, case and tripod.....	30	0	0

Apparatus Purchased for Cash.

Droits reservés au Cnam et à ses partenaires

SURVEYING AND DRAWING INSTRUMENTS.—Continued.			£	s.	d.
5 inch	91/72	**Troughton & Simms,** 4-screw, web diaphragm, reading by vernier to 1 minute, trough compass and wall plate, in case, with tripod	20	0	0
	722–1/71	**Troughton & Simms,** 4-screw, web diaphragm, reading by verniers to 30 seconds, trough compass, striding bubble, erecting eyepiece, lamp, plummet, wall plate, in case, with tripod and outer leather travelling case	15	0	0
	130/72	Pastorell 4-screw, web diaphragm, reading by vernier to 20 seconds, in case, with tripod	15	0	0
	136/65	4-screw **Elliott,** reading to 20 seconds, with erecting and inverting eyepiece, plumb-bob, in case, with tripod	20	0	0
	138/71	**Elliott,** 3-screw, transit, reading to 20 seconds, trough compass, lamp, plumb-bob, in case, with tripod	30	0	0
	12/70	**Baker,** 4-screw, with circular compass, reading by vernier to 20 seconds, with diaphragm, in case and tripod	17	10	0
	14/70	**Elliott,** 4-screw, with circular compass, web diaphragm, reading to 20 seconds, in case and tripod	17	10	0
	19/70	**Stanley,** 3-screw, reading to 1 minute with mechanical centring stage, web diaphragm, telescopic compass, case and tripod	20	0	0
6 inch	764–13/69	**Troughton & Simms,** 3-screw, web diaphragm, circular compass, diagonal eyepiece, lamp and plumb-bob, in case, with tripod	25	0	0
	95/90	**Troughton,** reading to 10 seconds, 4 levelling screws, diaphragm fitted with web, open stand, trough compass, diagonal eyepieces, pierced axis, striding bubble, lantern, plumb-bob, 2 cases, shifting head to tripod	42	0	0
	8/70/	**Troughton & Simms,** 3-screw, Micrometer reading to 5 seconds, with glass diaphragm, striding level, mining lamp, spare diaphragm, leather covered case and tripod	47	10	0
	154/68	7in. **Troughton & Simms,** 3-screw, with 3 verniers reading to 10 seconds, bubble on vernier and telescope, web diaphragm, sliding centring baseplate, striding level, diagonal eyepiece, in 2 cases, with tripod	18	0	0
	83/65	7½in. **Elliott,** without vertical arc, reading to 1 minute, with 2 extra readers and 1 extra eyepiece, in case, with tripod	17	10	0
	644–5/68	6in. **Troughton & Simms,** 4-screw, with fine adjustment, in case, with tripod with shifting head	25	0	0
	85/69	6in., 3-screw, Tacheometer, stadia glass diaphragm, trough compass, reading by vernier to 20 seconds, spare striding bubble, in case with open lath tripod	17	10	0

Apparatus Purchased for Cash.

Droits reservés au Cnam et à ses partenaires

SURVEYING AND DRAWING INSTRUMENTS.—Continued. £ s. d.

6 inch	680–14/71	**Troughton & Simms,** 4-screw, web diaphragm, luminated axis, reading to 10 seconds, spare striding bubble, in case, with tripod	25	0	0
	765–6/69	**Street,** 4-screw, web diaphragm, circular compass, reading by vernier to 1 minute, plumb-bob, extra eyepiece, and wall plate, in case, with tripod	25	0	0
	137/71	**Elliott,** Dalrymple Hay curve meter, in case, with tripod	30	0	0
	139/71	**Troughton & Simms,** web diaphragm, enclosed circles, 3 vernier pattern, with accessories, in case, with tripod	35	0	0
	940–2/	**Troughton & Simms,** 3-screw Micrometer, reading 5 seconds to horizontal circle, vertical circle divided centesimally to 400, bubble on telescope, aperture of object glass 1⅞in., focus 14in., with web diaphragm, dew cap, diagonal eyepiece, suncap, striding bubble, in 2 cases, and open frame tripod	40	0	0

2A (b) Y INSTRUMENTS.

All of which are divided on silver, reading by verniers and microscope, and packed in mahogany cases, unless otherwise stated.

5 inch	519–2/71	**Troughton & Simms,** 4-screw, in case, no tripod	12	12	0
	40/68	4-screw **Cary,** reading to 1 minute, in case, with tripod	10	0	0
	3/71/70	**Stanley,** 4-screw, half-circle, reading to 1 minute, with web diaphragm, circular compass, case and tripod	9	10	0
	4/71/70	**Troughton & Simms,** 4-screw, half circle, reading to 1 minute, web diaphragm, case and tripod	10	10	0
	5/71/70	4½in. **Stanley,** 4-screw, with circular compass, glass diaphragm, reading to 30 seconds, in case and tripod	9	15	0
6 inch	42/71	**Negretti & Zambra,** 4-screw, with circular compass, vernier reading to 20 seconds, no case, with tripod	18	10	0
8 inch	39/71	4-screw, **Jones,** reading to 20 seconds, web diaphragm, in case, with tripod	15	0	0

2A (c) EVEREST PATTERN.

All of which are divided on silver, reading by verniers and microscope, and packed in mahogany cases, unless otherwise stated.

2A (d) THEODOLITE PARTS.

B. MINING DIALS AND CIRCUMFERENTORS, ETC.

(a) Mining Dials. (b) Circumferentors. (c) Pocket Compasses, with Sights.

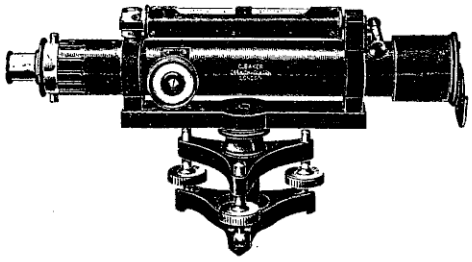
2B (a) MINING DIALS. £ s. d.

All of which are packed in cases and provided with tripod stand, unless otherwise stated.

4 inch	16/69	**Barrow** Card Dial	2	0	0
	409–1/69	**Archbutt,** folding sights, ball and socket joint tripod, all in cases	4	10	0

Droits reservés au Cnam et à ses partenaires

		MINING DIALS AND CIRCUMFERENTORS.—Continued.	£	s.	d
4 inch	845–1/83	6in. **Stanley** Cranked Gimbal Dial, circle reading by vernier to 1 minute, point diaphragm, Hoffman ball head, telescope and hinged sights, in case, with sliding leg tripod	27	10	0
	944–5/82	**Watts,** with folding sights, ball and socket joint, in case	2	10	0
4½ inch	590–5/82	Mining Dial, by **Ash,** complete in case, with tripod, also 5in. circular brass protractor	4	15	0
5 inch	35/82	**Davis,** 4-screw, ball joint, plain sights, telescopic sights, in case, with long and short tripods	9	10	0
	32/82	Miners' Dial, with rack and pinion rotation, bubbles both ends, vane sights, in case	3	0	0
	1/74/82	**Hall,** with vertical arc telescope, plain sights, in case, and tripod with ball and socket joint	8	0	0
2B (b) CIRCUMFERENTORS					
	1/75/82	Circumferentor, with compass, in case and tripod	2	2	0
	2/75/82	**Stanley** Circumferentor, with compass, in case and tripod	2	2	0



C. LEVELS.

(a) Dumpy Instruments.
(b) Y Instruments.
(c) Drainage Instruments.

2C (a) DUMPY INSTRUMENTS.

All of which are provided with the usual pattern round tripod and packed in mahogany case, unless otherwise stated.

			£	s.	d
10 inch	58/70	10in. **Spencer,** 4-screw, builders, with web diaphragm, case and tripod	4	0	0
12 inch	30/76	**Stanley** 4-screw, with circular compass, web diaphragm, case and tripod	8	15	0
	61/76	**Elliott,** 4-screw, with web diaphragm, cas and tripod	8	10	0
14 inch	268/64	**Short,** 4-screw, Gradiometer, with circular compass, web diaphragm, in case, with tripod	15	10	0
	21/76	**Short,** 4-screw, with circular compass, web diaphragm, case and tripod	8	10	0
	310/69	**Stanley** Gradiometer, with stadia glass diaphragm, circular compass, clamp and tangent screw, spare eyepiece, spare point diaphragm, plumb bob, in case, with tripod	25	0	0
	41/76	**Troughton & Simms,** 4-screw, with circular compass, web diaphragm, case and tripod	9	10	0
	62/76	**Hall,** 4-screw, with web diaphragm, case and tripod	9	10	0
	65/76	**Wilson,** 3-screw, with circular compass, stadia point diaphragm, case and tripod	14	10	0
	958–9/76	**Chadburn,** 4-screw, with web diaphragm, case and tripod	8	0	0

Droits reservés au Cnam et à ses partenaires

		C. LEVELS—Continued.	£	s.	d.
14 inch	57/76	4-screw, with circular compass, web diaphragm, case and tripod	9	10	0
	59/76	**Stanley,** 3-screw, quick-set engineer's, with spherical ball joint, stadia point diaphragm, clamp and tangent, case and tripod	20	0	0
15 inch	76/71	**Cary,** 4 levelling screws	12	12	0
	64/76	**Stanley,** 4-screw, web diaphragm, case and tripod	10	10	0

2C (b) Y INSTRUMENTS.

14 inch	18/90	**Holmes,** 4 levelling screws, diaphragm fitted with web compass, no tripod	8	0	0
	47/64	4-screw, **Troughton & Simms,** with web diaphragm, in case, with tripod	10	0	0
	43/63	4-screw, **Jones,** with clamp and tangent, circular compass, no case or tripod	4	0	0
	4/77/67	12in. **Cary,** 4-screw, with circular compass, web diaphragm, clamp and tangent, case and tripod	7	10	0
	5/77/68	**Troughton & Simms,** 3-screw, with clamp and tangent, web diaphragm, case and tripod	14	0	0

2C (c) DRAINAGE INSTRUMENTS.

All of which are provided with the usual pattern round tripod and packed in mahogany case, unless otherwise stated.

D. ACCESSORIES FOR THEODOLITES AND LEVELS, ETC.

(a) Tripod Stands. (b) Staves. (c) Cases for Staves and Stands. (d) Chains, Tapes and other Appliances for measuring distance by traversing it.

2D (a) TRIPOD STANDS.		£	s.	d.
23/157	Open Framed Stand, for 8in. theodolite, with 3-screw adjustment	3	0	0
54/157	Round Mahogany Tripod, suitable for level or theodolite	2	0	0
55/157	Tripod, suitable for mining dial	1	10	0
5/79/157	3ft. Round Form Mahogany Tripod, for level or theodolite	2	0	0
6/79/157	2ft. Frame Tripod for level or theodolite	1	15	0

2D (b) STAVES

174/70	18ft. **Sopwith** Staff	2	0	0
	1 Set 3 Sections Enamelled Metal Staff Plates, Feet and Hundredths	1	10	0
924–10/70	16ft. **Sopwith** Staff	2	10	0
167/70	16ft. Folding **Sopwith** Staff	1	10	0
26/80	16ft. **Sopwith** Staff	2	15	0
944–21/70	15ft. Scotch Staff	1	0	0

2D (c) CASES FOR STAVES AND STANDS.

2D (d) CHAINS, TAPES and other Appliances for measuring distance by traversing it.

101/S	20 Metre Steel Band Chain, fully divided to millimetres throughout	0	15	6
103/S	100 metre Studded Steel Band Chain	2	0	0
2/81/S	4-Pole Band Chain	0	12	6
944–19/S	66ft. Land Chain	0	15	0
8/81/S	66ft. **Chesterman** Steel Tape	0	15	0

Quotations for Traveller's Sextants on Request.

Droits reservés au Cnam et à ses partenaires

E. MINOR INSTRUMENTS FOR THE DETERMINATION OF HORIZONTAL ANGLES.

(a) Box Sextants. (b) Plane Tables. (c) Prismatic Compasses. (e) Tripods for Prismatic Compasses. (f) Optical Squares and Cross Staff Heads.

2E (a) BOX SEXTANTS.

All of which are divided on silver, reading by vernier to 1 minute, and packed in solid leather case with shoulder strap, unless otherwise stated.

		£	s.	d.
108/81	**Elliott** Box Sextant, in case	2	0	0
566–4/81	**Stanley,** in case	1	0	0
103/81	**Elliott,** without case	1	5	0
113/81	**Swain,** with telescope, in case	2	10	0
3/82/81	**Thornton,** complete with telescope, in case	3	0	0
4/82/81	**Troughton & Simms,** with telescope, in case	2	0	0
5/82/81	**Troughton & Simms,** in case	1	0	0
891–8/81	Box Sextant, with telescope, in case	3	0	0
114/S	**Stanley,** in case	2	10	0
956–14/81	**Heath,** without telescope, in case	2	15	0
6/82/81	**Troughton & Simms,** with telescope	2	15	0
7/82/81	**Elliott,** with telescope, in case	3	0	0

2E (b) PLANE TABLES AND PARTS.

638–6/77	Telescopic Alidade, by **Morin,** new condition, in case	4	10	0
792–19/77	**Stanley,** Telescopic Alidade, full circle, glass diaphragm, trough compass, in case	7	10	0
2/83/77	18in. Boxwood Alidade, with folding sights, in case	1	0	0
944–20/77	Plane Table and Tripod, with 18in. boxwood Alidade, in canvas case	5	10	0

2E (c) PRISMATIC COMPASSES.

All of which have card dial, and are packed in solid leather case with shoulder strap, unless otherwise stated.

2½ inch	891–3/81	**Barker,** 2½in. Prismatic Compass and Clinometer in case	2	15	0
	41/84/81	Mark VII., Service Prismatic	2	10	0
	44/84/81	Mark VII., Liquid Prismatic Compass, in case	4	15	0
	942/16/81	**Steward** Liquid Compass	2	5	0
	34/84/81	Mark VII., Service Prismatic	2	10	0
	50/84	Service Prismatic, in case	1	15	0
3 inch	365–6/81	**Hicks,** Prismatic Compass and Clinometer	3	10	0
	6/84/81	3½in. **Stanley,** in case	1	10	0
	31/84/81	4in. **Stanley,** with aluminium ring dial, in case	2	0	0
	36/84/81	3½in. **Pastorelli,** with card dial, in case	1	5	0
	944/3/81	**Cooke,** with metal tripod	3	10	0
	52/84/	**Creagh-Osborne** Liquid Compass	2	10	0
5 inch	131/81	**Potter,** card dial, in box	2	0	0

2E (d) COMPASSES.

60/81	Night Marching Compass	1	7	6
89/122	Creagh-Osborne " Air " Liquid Compass	2	0	0
47/81	Trough Compass, in mahogany case	0	15	0
107/S	Trough Compass	0	7	6
118/81	Stoppani Sighting Compass, in case	2	10	0
126/81	Marching Compass	0	17	6
1/85/S	**Stewart** Night Marching Compass, in case	1	0	0
3/85/S	**Watkins** Compass and Clinometer, by **Hicks,** in case	2	0	0
5/85	Compass and Clinometer, in case	2	0	0
6/85	**Negretti & Zambra** Compass and Clinometer	2	0	0
8/85/81	**Hicks** Compass and Clinometer, in case	1	10	0
944–11/81	**Trough** Compass, in case	0	10	0

Apparatus Purchased for Cash.

Droits reservés au Cnam et à ses partenaires

E. MINOR INSTRUMENTS—Continued.

			£	s.	d.
2E (f) OPTICAL SQUARES AND CROSS STAFF HEADS.					
	47/81	Combined Optical Square, 45° and 90°	1	0	0
	33/80	10in. Open Form Cross Staff Head, by **Cary**, in mahogany case, with tripod, as new	2	15	0
	53/81	Small **Stanley** Electrum Optical Square	0	10	0
	913–2/81	Optical Square	1	0	0
	1/86/81	Cross Staff Head, circular, with rack and pinion, divided to take any angle, compass, in case	2	10	0
	2/86/81	**Stanley** Optical Square, in case	1	0	0
	924–1/81	**Stanley** Optical Square	1	0	0
	924–18/81	Cross Staff Head, in case	1	5	0
	7/86/81	French Cross Staff and Compass	0	12	6
	10/86/81	**Troughton & Simms** Optical Square	1	0	0

F. MINOR INSTRUMENTS FOR THE DETERMINATION OF VERTICAL ANGLES.

(a) Nautical Sextants. (b) Sextant Stands. (c) Repeating Circles. (d) Artificial Horizons. (e) Clinometers. (f) Levels with Sights. (g) Levels without Sights.

			£	s.	d.
2F (a) NAUTICAL SEXTANTS.					
		All of which read by vernier with microscope and are packed in mahogany case, unless otherwise stated.			
5 inch	58/85	**Cary**, divided on silver, in mahogany case (new price, £14 10 0)	6	6	0
6½ inch	4/87/86	Sextant, reading to 10 seconds, complete with accessories, in case	4	10	0
	951–2/86	**Stanley**, reading to 30 seconds, with star telescope, in case	4	15	0
	8/87/86	7in. **Spinelli & Mahur**, reading to 15 seconds, complete in case, with certificate	7	10	0
	7/87/86	7in. **Cox**, reading to 10 seconds, complete in case, with accessories	4	15	0
8 inch	57/85	Porter Prism Nadir Sextant, by **Cary**, in case	5	5	0
2F (b) SEXTANT STANDS.					
	2/98	Sextant Stand, by **Cary**, in case	2	10	0
	3/96	Sextant Stand, in mahogany case	2	0	0

A NEW LEVELLING STAFF.

(Prov. Patented.)

We are pleased to announce that we have succeeded in producing a Levelling Staff fitted with Enamelled Figured Metallic Scales.

Such a Staff has long been desired, but the high cost of production has hitherto prevented its introduction. We have now produced such Scales at a marketable price, as our quotations will show.

Sopwith 14 foot Levelling Staff, fitted with Enamelled Metal Scales, best quality Staff ... ... £4 10s. 0d.

Set of the Metal Scales to fit any 14ft. Sopwith Staff £2 2s. 0d.

Easily fixed.

PERMANENT, WASHABLE AND EASILY READ.

Our Second-hand Catalogue is never complete—we are constantly adding.

Droits reservés au Cnam et à ses partenaires

		F MINOR INSTRUMENTS.—Continued.	£	s.	d.
2F (c) REPEATING CIRCLES.					
	2/82	**Troughton & Simms,** 10in. diameter, divided on silver, with verniers and microscopes reading to 20 seconds, in mahogany case	8	0	0
2F (d) ARTIFICIAL HORIZONS.					
Mercury	3/81	**Cary,** Reeve's patent, made of aluminium	2	0	0
	653–4/82	Porter's Artificial Horizon, by **Cary,** in case	3	15	0
	818–3/82	Roof Pattern Artificial Horizon, in case	1	5	0
	866–19/82	Rectangular Artificial Horizon, with levelling screws, in case	1	10	0
	924–19/82	Artificial Horizon, with black glass reflector, levelling screws, spirit level, in case	1	10	0
2F (e) CLINOMETERS.					
	30/77	Clinometer, for 10 pdr. gun, in case	5	0	0
	New	Clinometer and Compass combined, prismatic reading, in leather sling case	5	10	0
	New	**Brunton** Clinometer and Compass	6	10	0
	New	**Verschoyle** Pocket Transit	8	0	0
	SS	**Watkins'** Clinometer, with drum	1	10	0
	43/81	**Troughton & Simms** Delisle Improved Combined Reflecting Level and Clinometer	2	10	0
	792/13/77	Cassastelli, Indian Pattern, in leather sling case	1	10	0
	880–9/81	Boxwood Rule-form Clinometer, with compass, level and graduated joint in case	2	0	0
	880–13/81	**Watkin** Clinometer by **Elliott**	1	0	0
	880–20/81	Compass and Clinometer, with universal joint and stand socket, in case	2	10	0
	48/81	**Watkin** Clinometer by **Hicks,** in case	1	0	0
	45/81	**Harling** Theodolette, in case	3	0	0
	55/81	Balance Circle Chronometer, in case	0	10	0
	1/91/81	**Steward** Gun Clinometer, with level, in case	1	10	0
	942–17/81	**Casella** Theodolette	3	0	0
2F (f) LEVELS WITH SIGHTS.					
	New	Hand Level	1	5	0
		Larger Type	1	15	0
	1/92	**Baker** Telescopic **Abney** Level, with metal sliding leg tripod	4	15	0
	6/92	5in. Abney Level by **Steward**	1	7	6
	7/92	5in., with compass, in case	2	5	0
	954–7/93	**Watts** Shafting Level, in case	1	10	0

DUMPY LEVELS

WE ARE ALWAYS PREPARED TO PURCHASE FOR CASH AND ALLOW GOOD PRICES FOR DUMPY LEVELS AND OTHER SURVEYING APPARATUS OF MODERN DESIGN AND BY WELL-KNOWN MAKERS

WHY NOT CHANGE YOUR PRESENT INSTRUMENT FOR ONE OF THE LATEST PATTERN? A GENEROUS ALLOWANCE WILL BE MADE

WRITE TO-DAY
AND ASK FOR A QUOTATION

Droits reservés au Cnam et à ses partenaires

G. DRAWING INSTRUMENTS.

(a) Sets in Cases below £5. (b) Sets in Cases above £5. (c) Single Drawing Instruments. (d) Enlarging and Reducing Apparatus. (e) Perspective Apparatus.

		£	s.	d.
2G (a) SETS BELOW £5. All needle pointed.				
SS	12in. Electrum Half-set of Drawing Instruments	1	15	0
NS	Pocket Case of Drawing Instruments, school set, 4in. plain point, half-set of compasses, ink and pencil point, spring bow pen, 5in. ruling pen, leads	0	5	6
NS	Pocket Case of Drawing Instruments, 5in. half-set of compasses, ink and pencil point lengthening bar, 5in. divider, spring bow divider, rotating compass pen and pencil point, 5in. ruling pen, leads	1	1	0
NS	Pocket Case, containing best quality tubular electrum drawing instruments, needle point, 6in. half-set of compasses, lengthening bar, ink and pencil points, 6in. hair divider, 3 spring bows, centre wheel, 6in. ruling pen, 4½in. ruling pen, spare handle, screwdriver, leads, spare set of screws and bolts	2	15	0
231/S	Electrum Beam Compass in mahogany case, with 6in. needle-pointed half-set	3	0	0
16/94/S	6in. Half Set	1	1	0
19/94/S	Pocket Case, containing 6in. half set, 5in. hair divider, 3 spring bows, 1 pen	0	15	0
20/94/S	Riefler Pocket Case, containing 6in. half-set, 5in. divider, 4in. compass, 3 spring bows and 3 pens	1	10	0
2G (b) SETS ABOVE £5. All needle pointed.				
835–5/75	Presentation Set of Instruments, in electrum-bound case, 6in. half set of compasses, double-jointed plain points, set of 3 spring bows, pen and pencil bow double-jointed needle points, map measurer, index pen, dotting pen, road pen, parallel rule, divided ivory edge, ivory scales, curves and set square	10	0	0
866–17/75	13in. Oak Case of Electrum Instruments, by **Stanley**, containing 6in. half-set, 5in. and 4in. hair dividers, set of 3 spring bows, bow pen and pencil compasses, 4 drawing pens, protractor, etc.	5	15	0

We hold complete stocks for Drawing Office equipment at strictly Competitive Prices.

NEW CATALOGUE OF SURVEYING AND DRAWING INSTRUMENTS.

If you have not received a copy, write for one to-day. Many New and interesting Models are Listed and Prices are Reduced.

Drawing Pen Sets—Delivery 5 hours

Droits reservés au Cnam et à ses partenaires

G. DRAWING INSTRUMENTS.—Continued. £ s. d.

DRAWING BOARDS AND TEE SQUARES.

BEST PINE BOARDS, Ebony Edge, Battened and Slotted—

Imperial Size, 31in. × 23in.	1	7	6
Double Elephant, 42in. × 29in.	2	2	0

TEE SQUARES. Best Mahogany, Ebony Edge—

Imperial Size, 32in.	0	13	9
Double Elephant, 42in.	0	17	0

BLACK AND WHITE, BLUE, AND TRUE TO SCALE PRINTS.

We can give you a very quick service at exceptionally low prices, and the quality of the work is beyond question.

Prints supplied in two or three hours.

2G (c) SINGLE DRAWING INSTRUMENTS.

			£	s.	d.
Spring Bows	New	Set of 3, in case, with needle points	1	0	0
	New	Pen, needle-pointed	0	5	0
	New	Pencil, needle-pointed	0	5	0
	New	Divider	0	5	0
Proportional Compass	W	**Baker,** 9in., adjustable points, in case	1	10	0
	14/96/S	6in. Harling Proportional Compass, in case	1	5	0
Planimeter					
	270/S	Reiss, in case, nearly new	3	10	0
	272/S	Reiss, in case nearly new	5	10	0
	275/S	Reiss, in case, as new	4	10	0
	954–6/S	**Keuffel & Esser,** in case	1	15	0
Beam	213/75	Beam Compass, 15in. bar, all brass, in case	0	15	0
	887–26/159	5ft. **Troughton & Simms,** Ebony, inlaid brass, in case	2	10	0
Trammel	New	Combination Pillar Compass	3	10	0
Ruling Pens	New	Hinged pattern	0	6	6
	New	Plain Nib	0	4	6

2G (d) ENLARGING AND REDUCING APPARATUS.

All of which are packed in mahogany cases, unless otherwise stated.

Pentograph	New	Wooden Frame, 12in.	0	12	0
	11/97/S	18in. Boxwood Pantograph	1	0	0
Eidograph	765–1/91	30in. Brass Eidograph, by **Elliott,** with accessories, in mahogany case	15	0	0
	8/97/S	Camera Lucida	1	5	0

2G (e) SLIDE RULES.

2G (e) PERSPECTIVE APPARATUS.

2/75	Set of Metal Marquoise Scales, in case	1	0	0
	2in. New Reducing Glass	0	7	6
661–10/75	**Lorraine** Mirror, 185 m/m × 155 m/m	1	5	0

Droits reservés au Cnam et à ses partenaires

H. SCALES, ANGULAR AND LINEAR.

(a) Protractors. (b) Protractors with Vernier. (c) Station Pointers. (d) Sets of Scales. (e) Scales, Various.

2H (a) PROTRACTORS.

Semi-Circular

2H (b) PROTRACTORS WITH VERNIER.

All of which are divided on silver and packed in mahogany case, unless otherwise stated.

			£	s.	d.
Circular	49/77	5in. **Stanley**, 1 arm, reading to 1 minute, in mahogany case	1	5	0
	869–14/77	6in. **Stanley** Electrum, reading to 30 minutes, in case	1	0	0
	53/77	6in. **Elliott** Brass Protractor, in case	0	10	6
	1/100/77	6in. **Stanley** Electrum Goniometer Protractor, in case	1	10	0

2H (c) STATION POINTER.

	887–18/76	6in. **Elliott**, divided on silver, reading to 1 minute, clamp and tangent, with extension arm, in case	4	0	0

2H (d) SETS OF SCALES.

All of which are contained in case, unless otherwise stated.

Solid
Boxwood

2H (e) SCALES, VARIOUS.

	98/S	Set of Boxwood Chain Scales and Offsets, in mahogany case	1	0	0
	101/75	Set of 6 Boxwood Scales, with Offsets, in mahogany case	1	0	0
	102/75	Set of Electrum Marquoise Scales, in case	0	10	0
	866–4/75	Set of Boxwood Scales and Offsets, in case	1	0	0
	880–8/S	7, 4in. Ivory Surveyors' Scales, in case	0	7	6

Surveyors' 5ft. Folding Rods.

We are pleased to announce that owing to improvements in manufacturing we are able to reduce the price of our Folding Rods.

5ft. Rods ... ... 6/6 each.
5ft. Rods ... ... 12/- per pair.
5ft. Rods, 4-fold ... 15/6 each.

Apparatus lotted and sent to Auction.

Droits reservés au Cnam et à ses partenaires

J. DRAWING BOARDS, T SQUARES, PARALLELS, ETC.

(a) Drawing Boards. (b) T Squares. (c) Straight Edges. (d) Parallel Rules. (e) Curves.
2J (a).

		£	s.	d.
2J (b) T SQUARES AND SET SQUARES.				
2/105/S	60in. Mahogany Tee Square, ebony edge.....	0	12	6
2J (d) PARALLEL RULES.				
Bar 48/97	48in. Brass Straight Edge, by **Potter**, in case.....	2	5	0
J (e) CURVES.				
	Selections sent on approval against remittance to value.			
1/107/77	Box containing 90 Cardboard Curves, 1in.—240in.	0	10	0

L. SUNDRY APPARATUS—SECTION II.

		£	s.	d.
247/92	Current Meter, reading yards, furlongs and miles	2	10	0
839–7/93	**Walker** Cherub Ship Log, with 2 rotators	4	10	0
839–8/93	**Walker** Harpoon Ship Log, as new	2	10	0
323–3/85	**Richards'** Patent Steam Engine Indicator.....	6	0	0
34/108	Fowler Calculator	0	15	0
37/108	**Holden** Calculator	0	15	0
7/98/S	6in. **Hemmi** Slide Rule.....	0	6	0
9/98/S	14in. **Faber** Commercial Slide Rule.....	1	7	0

Charges for the Hire of Surveying Instruments.

The following instruments can be hired at the charges stated. Other apparatus by arrangement.

Deposit to value or satisfactory London Trade references. Instruments are at the sole risk of the hirer after leaving our premises.

The day period includes collection from these premises the evening before day of using and delivery here the morning of the day after use.

	Per Day.			Per Week.			Per Month.		
	£	s.	d.	£	s.	d.	£	s.	d.
Dumpy Level, with Stand and Staff.....	**0**	**15**	**0**	**1**	**5**	**0**	**2**	**10**	**0**
Transit Theodolite	**1**	**0**	**0**	**2**	**10**	**0**	**4**	**0**	**0**
Set 6 Poles.....	**0**	**2**	**6**	**0**	**6**	**6**	**0**	**15**	**0**

Any expenses of packing and carriage are charged extra at cost.

Hire of other Instruments by Arrangement.

Apparatus lotted and sent to Auction.

Droits reservés au Cnam et à ses partenaires

SUNDRY APPARATUS.—Continued.

		£	s.	d.
623–7/81	Gravity Levelling Instrument	0	10	0
109/S	Perambulator Attachment, for recording distance travelled, in case	1	5	0
658–10/77	Collimator Telescope, with iron base, and adjusting screws	2	10	0
160/74	Thomson Pattern Azimuth Instrument, in mahogany case	2	0	0
215/92	**Richards'** Patent Steam Engine Indicator, by **Elliott**, with 6 springs, 15 to 148 lbs. pressure, in case	3	0	0
216/92	**Crosby** Steam Engine Indicator, nickel finish, with 4 springs, 20 to 120 lbs. pressure, in case	5	10	0
220/80	Current Meter, by **Casella**, reading metres, kilometres and hectometres, in case, new condition	5	0	0
232	**Current Meter**	2	10	0
266/74	Volta Azimuth Reflector Mirror, in case	1	10	0
267/96	Amsler Electric Current Meter, complete in case (new price, £40)	10	0	0
880–14/S	4in. Dip Needle by **Browning**, on 5in. metal base	2	10	0
880–18/S	2 Metre bone multi-folding rule, in centimetres and millimetres throughout both sides	0	7	6
880–16/S	12in. **Brown** gradient level, in case	0	12	6
891–13/92	**Darke's** High-speed Steam Engine Indicator, complete in case	3	0	0
879–18/S	**K. & E. Thatcher** Calculating Machine, in case	12	10	0
888–17/93	**Short & Mason** Water Pressure Gauge, in case	1	0	0
289/S	Sliding Leg Metal Tripod, in leather case	0	15	0
908–16/92	**Elliott** Steam Engine Indicator, in case	4	10	0
16/108/92	**Crosby** Steam Engine Indicator, complete in case	3	0	0
18/108/92	**Crosby** Reducing Wheel, in case	1	10	0
27/108/S	20in. **Stanley** Slide Rule, in case	1	17	6
954–8/92	**Diesel** Oil Engine Indicator, complete in case	3	10	0

This List, owing to the nature of the stock it represents must necessarily never fully cover the whole of our stock, as goods are being sold and replaced daily. When this list is published in April and October it is actually then correct.

WE STRONGLY URGE our customers to write giving full particulars of their requirements if they do not see it listed, as we are adding to stock daily.

Droits reservés au Cnam et à ses partenaires

SECTION III.

TELESCOPES ON STANDS AND ACCESSORIES.

A. ASTRONOMICAL TELESCOPES.

(a) Refractors, Equatorial Mount. (b) Refractors, Altazimuth Mount.

	3A (a) REFRACTORS. Equatorial Mount.	£	s.	d.
542/158	4in. **Browning,** on equatorial mount (no circles), slow motions by Hooke's joint, finder telescope, 2 astro and terrestrial eyepieces, on mahogany tripod, case for telescope.....	35	0	0
538/158	6in. on well-built equatorial, with geared circumpolar adjustment, finder, clamp and slow motion to declination, 4 Astro eyepieces, on square iron column	75	0	0
933/2	5¾in., Object Glass by **Cooke,** on equatorial mount, with divided circles, slow motions, finder telescope, 5 astro eyepieces, on iron column, also mahogany tripod with altazimuth mount ...	45	0	0
1/109/S	3½in. Astro Telescope on skeleton equatorial mount, with slow motion, on garden tripod ...	17	10	0
539/S	5in. **Cooke,** with achromatic objective focus, 60in., equatorial mount, adjustable for latitude, 6in. declination circle, and 5in. hour circle, divided on silver, large driving quadrant clock, weight driven, finder telescope, dew cap, 3 astro eyepieces, on heavy mahogany garden tripod, with levelling feet, reconditioned as new.....	120	0	0
3/109	4in. **Browning,** 60in. focus, with rack eye end, no stand	20	0	0
961–1/158	3¼in. Astro Telescope, with equatorial mount, finder, 2 eyepieces, on garden tripod.....	25	0	0
877–7/158	4in. **Cooke,** equatorial mount, with declination and hour circles divided on silver, slow motion by Hooke's joint, with battery of 6 eyepieces, solar diagonal, on mahogany tripod and case.....	70	0	0

ALUMINIUM REFLECTING FILMS ON ASTRONOMICAL MIRRORS

WE ARE PLEASED TO ANNOUNCE THAT WE CAN ACCEPT ORDERS FOR ALUMINISING THE SURFACES OF MIRRORS UP TO 20in. DIAMETER. THE PERMANENCY AND REFLECTING EFFICIENCY OF THIS FILM MUST BE OF SPECIAL INTEREST TO OUR CUSTOMERS.

PRICES:

3in.	...	£1 7 6	9in.	...	£3 6 6
4in.	...	1 10 6	10in.	...	3 17 0
5in.	...	1 16 0	11in.	...	4 8 6
6in.	...	2 2 6	12in.	...	5 1 6
7in.	...	2 9 6	13in.	...	5 15 0
8in.	...	2 17 0	14in.	...	6 10 0

ORDERS EXECUTED PROMPTLY.

Apparatus Valued.

Droits reservés au Cnam et à ses partenaires

TELESCOPES ON STANDS AND ACCESSORIES.—Continued. £ s. d.

3A (b) REFRACTORS. Altazimuth Mount.

		£	s.	d.
608/S	5in. **Astro** Telescope, 84in. with finder, 3 astro and 1 terrestrial eyepieces, on heavy sliding leg mahogany tripod	55	0	0
599/158	2in. **Cutts,** on table stand, with 1 Astro eyepiece and 1 terrestrial eyepiece, in case	5	10	0
939–13/158	4⅝in. Astro Telescope with finder, slow motion, 6 astro eyepieces, star diagonal, on heavy mahogany garden tripod, case for telescope	25	0	0
9/110/S	3in. **Dolland,** with leather covered body, terrestrial eyepiece, on garden tripod, as new	12	0	0
953–7/158	3in. **Watson,** equatorial mount by **Newton,** with declination and hour circles divided on brass, finder, slow motion by Hooke's joint, 2 Astro and 1 terrestrial eyepieces, sun diagonal, on garden tripod, case for telescope	20	0	0
955–4/158	2¼in. Astro Telescope, with steady rod, 1 Astro eyepiece, 1 terrestrial eyepiece, on table stand, case	12	10	0
11/110/158	2¾in. Astro Telescope, with 1 terrestrial eyepiece, 1 Astro eyepiece, on table stand, in case	10	10	0
12/110/158	2½in. Astro Telescope, with finder, terrestrial eyepiece, on table stand, case	9	10	0
13/110/158	3in. Astro Telescope, with tapered body, finder, 1 Astro and 1 terrestrial eyepiece, on garden tripod, case for telescope	10	10	0
14/110/158	3in. **Dixey,** with 1 terrestrial and 1 Astro eyepiece, on table stand, in case	10	0	0

OUR PHOTOGRAPHIC DEPARTMENT

is exceptionally well equipped, and is staffed by men with good technical experience, well able to advise on the selection of apparatus required for special purposes, or any difficulties you may encounter with your own photographic apparatus.

In addition to all the different types of New Cameras, we hold a very comprehensive stock of Second-hand Cameras and Lenses, by leading manufacturers. Every item is fully guaranteed, both optically and mechanically.

We accept, and allow good prices for, Cameras and Scientific Apparatus, in part exchange for articles from our Photographic Department.

Photographic Apparatus is purchased for cash or sold on commission.

Wherever you are, let us have your enquiries. Our Mail Order Department guarantees you prompt delivery, and full satisfaction.

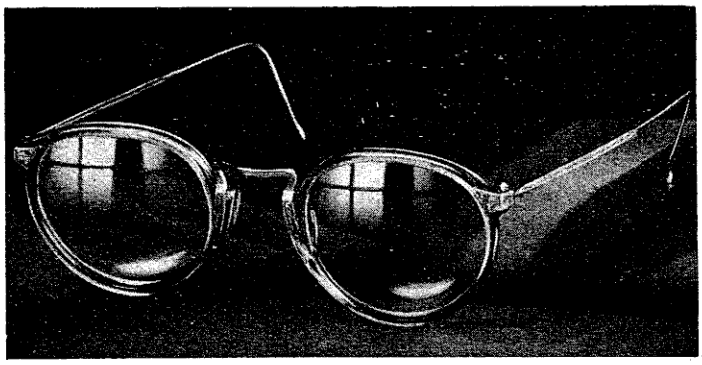
Droits reservés au Cnam et à ses partenaires

B. REFLECTING TELESCOPES.

(a) Equatorial Mount. (b) Altazimuth Mount.

		£	s.	d.
3B (a) EQUATORIAL MOUNT.				
927–1/158	10in. Telescope Tube with mirror and flat by **Irving**, 2in. finder, 24in FL., battery of 5 eyepieces, 95 to 715, rack eye end, no stand	35	0	0
1/111/S	12in. **With-Browning**, 6ft., 7in. focus, mirror refigured by **Calver**, equatorial mount, clock driven, 2in. finder, revolving tube, 16in. circles divided on silver, to 5 seconds, complete with battery of 10 achromatic eyepieces, in case	150	0	0
3B (b) ALTAZIMUTH.				
920–8/158	4in. **Gregorian** with finder, 2 speculums, variable powers, 2 eyepieces, table stand, in case	10	0	0
3/112/158	6in. Newtonian Tube, with mirror, 36in. focus and flat, no stand (mirror by **Irving**)	9	0	0

OPHTHALMIC DEPARTMENT



QUALIFIED REFRACTIONIST ALWAYS IN ATTENDANCE | QUICK REPAIRS AND REPLACEMENTS

PRESCRIPTIONS DISPENSED

Hours 9 a.m.—5-30 p.m. Sat. 9 a.m.—12-30 p.m.

Apparatus Sold on Commission.

Droits reservés au Cnam et à ses partenaires

C. TRANSIT AND MERIDIAN INSTRUMENTS.

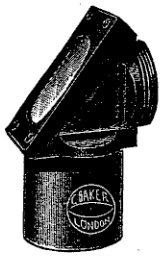
(a) Transit Instruments. (b) Dipleidoscopes.

		£	s.	d.
3C (a) TRANSIT INSTRUMENTS.				
3C (b) DIPLEIDOSCOPE.				
	Dent Dipleidoscope	1	0	0

D. OBJECT GLASSES, EYEPIECES, ETC.

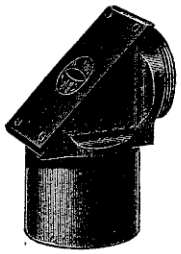
	3D (a) OBJECT GLASSES.	£	s.	d.
573/123	2¼in. Object Glass, 8½in. focus, in cell	1	0	0
505/156	2⅜in. **Troughton,** mounted in wooden tube with brass fittings	4	0	0
553/123	2¾in. Unmounted Object Glass, 10½in. focus	2	0	0
514	2¾in. Object Glass, in cell, clear aperture	4	0	0
561	2in. Object Glass, 12in. focus, unmounted	0	15	0
582/123	24 m/m Object Glass, by **Hilger,** 4in. focus, in cell	0	7	6
891–16/124	1¾in. Object Glass, in cell, 20in. focus	1	0	0
8/115/S	5in. **Broadhurst-Clarkson,** 75in. focus, in cell	25	0	0
9/115/123	3½in. **Parks** Objective Glass, 50in. cell	2	10	0
10/115/123	2¾in. Object Glass, 40in. focus, in cell	1	15	0
564	**Wray** 6in. Object Glass, 108in. focus, in cell	45	0	0
565	4in. **Watson** Object Glass, 60in. focus, in cell	15	0	0

Two New Models of Sun and Star Diagonals.



We have designed and manufactured these two new diagonals so that we can offer either a sun or star diagonal fitted with the highest quality optical equipment at strictly competitive prices. The star diagonal has a 1in. clear aperture prism. Both models are finished black enamel and have standard threads.

Star Diagonal ... **£2 10 0**
Sun Diagonal ... **£2 10 0**



Whatever your requirements for astronomical purposes, please let us have your enquiries, it is more than probable we can meet your wants as our stock is unique and telescopes of apertures varying from 2in. to 12in. are always available, each instrument being fully guaranteed optically and mechanically.

Our catalogue of second-hand scientific instruments includes over 3,000 items.

Levels and Staves Repaired.

Droits reservés au Cnam et à ses partenaires

D. OBJECT GLASSES, EYEPIECES, ETC.—Continued.

3D (b) EYEPIECES.		£	s.	d.
726/87	**Ross**, Position Micrometer, with 2 spare eyepieces, in case	20	0	0
727/87	**Browning** Solar Prism Eyepieces, in case	3	15	0
722/87	Transit Eyepiece	0	15	0
	Improved Pattern Star Diagonal, standard thread	2	10	0
	Improved Pattern Sun Diagonal, standard thread	2	10	0
	Ocular Zollner Star Spectroscope	2	10	0
	Astro Eyepieces, various power, Huyghenian pattern, from ..... each	0	10	0
589/87	Prismatic Solar Eyepiece	8	10	0
590/87	**Troughton** Prismatic Eyepiece	6	10	0
531/87	Erecting Eyepiece	1	5	0
547/87	Solar Prism Eyepiece	3	5	0
639/87	Focussing Comet Eyepiece	1	15	0
662/87	Transit Eyepiece	2	0	0
663/87	Comet Eyepiece	1	5	0
	New **Zollner** Star Spectroscope, in case	2	10	0
707/87	2½in. Comet Eyepiece	1	10	0
710/87	54 m/m **Steinheil** Eyepiece	2	0	0
734/87	Solar Diagonal Eyepiece	1	10	0
761/87	**Browning** Erecting Prism Box, with standard R.A.S. thread	3	0	0
770/87	**Browning** Centring Eyepiece	1	1	0
787/87	Battery of high-power Eyepieces on revolving nosepiece	4	10	0
785/87	4 m/m **Gifford** Eyepiece, sliding fitting	1	15	0
788/87	**Zeiss** Double Revolver, to take standard Eyepiece and Comet Eyepiece	5	15	0
875–7/87	Sun Diagonal	1	10	0
4/116	**Browning** Star Diagonal, in case	1	10	0
10/116	**Browning** No. 2 R.A.S. thread	0	15	0
2/116/87	½in. Astro Eyepiece	0	15	0
800/87	**Watson** Comet Eyepiece	1	5	0
327–8/159	Battery of **Grubb** Astro Eyepieces, in cabinet	8	10	0
758/87	9 m/m **Steinheil** Achromatic, with sliding fitting	1	1	0
939–15	**Cooke** Transit Eyepiece, with spider web cross lines, in case	1	5	0
20/116/87	**Hilgar** Position Micrometer Eyepiece	10	0	0
23/116/87	**Cooke** Comet Eyepiece	2	10	0
24/116/87	**Zeiss** 20 m/m Kellner Eyepiece	2	10	0
25/116/87	**Zeiss** Monocentric 12·5 m/m Eyepiece	3	15	0
28/116/87	**Zeiss** 5 m/m Orthoscopic Eyepiece	4	7	6
22/116/87	**Zeiss** 5 m/m Orthoscopic Eyepiece	4	7	6
39/116	**Barlow** Lens in mount, to take standard eyepiece	1	0	0
36/116	⅜in. Astro Eyepiece	0	17	6
40/116	½in. Astro Eyepiece	0	15	0
41/116	½in. Astro Eyepiece	0	15	0
43/116	⅝in. Astro Eyepiece	0	15	0
44/116	⅝in. Astro Eyepiece	0	15	0
47/116	⅝in. Astro Eyepiece	0	17	6
49/116	⅝in. Astro Eyepiece	0	17	6
51/116	Sun Diagonal	1	10	0
931–14/87	**Cooke** Large Position Micrometer, suitable for double star work	45	0	0

Apparatus lotted and sent to Auction.

Droits reservés au Cnam et à ses partenaires

		£ s. d.
3D (b)	**EYEPIECES.**—Continued.	
552/88	**Browning** Double Image Reflecting Micrometer, with 3 eyepieces, in case	5 10 0

3D (d) TRANSIT PARTS.

357–8/135	Transit Eyepiece	2 10 0
7/158	Striding Bubble, 24in., with scale, in case	6 0 0

F. STANDS, MOUNTINGS, ETC.

3F (a) EQUATORIAL.

N.S./B.	**Baker,** 3in. Student's Equatorial, divided circles, on iron pyramid stand	18 10 0
35/S	**Ottway** Equatorial Mount, suitable for 3in. or 3½in. telescope, circles divided on brass, 1 slow motion by **Hooke's** joint, adjustment for latitudes	35 0 0

BAKER'S

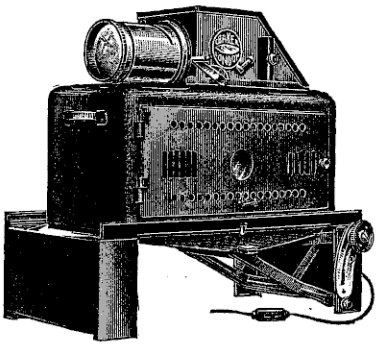
"BRITISH" EPIDIASCOPE

So efficient is our cooling system that Plasticine models may be left in the Epidiascope for long periods without fear of damage.

Brilliant pictures, with strong stereoscopic relief if required.

Projection objective 16in., focus F/3.5, giving excellent definition and flat field.

EFFICIENT, SIMPLE TO USE, AND SILENT TWIN COOLING FANS.



Descriptive pamphlet on application. **Contractors to H.M. Government.**

C. BAKER (Estab. 1765), 244, High Holborn, LONDON.

Apparatus let out on Hire, see page 36.

Droits reservés au Cnam et à ses partenaires

STANDS, MOUNTINGS, Etc.—Continued.

3F (b) ALTAZIMUTH.

		£	s.	d.
3F (c) TRIPODS.				
8/158	Extra heavy mahogany Sliding Leg Tripod, with altazimuth head, suitable for 5in. or 6in. telescope	10	0	0
875–5/158	2ft. Walnut Tripod	0	5	0
1/121/S	Metal Telescopic Tripod with slow motion to the horizontal movement	1	10	0
3F (d) CLIPS.				
SS	Pair 2¾in. Clips	1	0	0
8/S	Table Stand, to take 1½in. telescope	0	15	6
9/158	Brass Table Stand, suitable for 2in. telescope	1	5	0
1/122/	Brass Table Stand to take 1½in. telescope, in case	1	0	0
2/122/	Brass Table Stand to take 2in. telescope, in case	1	0	0

3E. SPECULUM FLATS AND MIRRORS.

507/89	Silvered Mirror, 8¼in., 12ft. focus	8	10	0
587–2/120	4½in. Speculum, 7ft. 3½in. focal length	2	0	0
15/98	10½in. Mirror, with flat, 2in. × 1½in.	15	0	0
515/120	6⅜in. Speculum, 72in. focus	3	10	0
528/88	3½in. Glass Mirror, by **With**, 32in. focus	3	0	0
531/88	4½in. **With**, Glass Mirror, 51in. focus	6	0	0
532/88	2in. Oval Flat, 1½ minor axis	1	10	0
537/88	6in. **Slade** Glass Mirror, 54in. focus and flat, unmounted	5	0	0
541/88	Silvered Optical Flat, 2¼in. × 1¾in.	1	0	0
543/88	Silvered Optical Flat, 2 $\frac{5}{16}$in. × 1½in.	0	17	6
546/88	6in. **Irving** Glass Mirror, 74½in. focus and flat	5	0	0
547/88	Stainless Steel Optical Flat, 1¾in. × 1¼in.	2	10	0
2/123/88	6½in. Glass Mirror, 51in. focus by **Slade**, and flat	5	10	0
3/123/88	7in. **Oliver** Glass Mirror, 60in. focus	4	10	0
4/123/88	7in. **Oliver** Glass Mirror, 72in. focus	4	10	0
5/123/88	7in. **Zeiss** Optical Flat, with chipped edge	5	0	0
6/123/158	15in. **Linscott** Glass Mirror, 93in. focus	20	0	0

RE-SILVERING.

RE-SILVERING FLATS AND MIRRORS.

We have pleasure in announcing that we are now in a position to re-silver mirrors and flats by a new process which gives an exceptionally fine, brilliant surface of the highest quality, at the following competitive prices.

Prices include silvering flat.

4in. to 6in. inclusive	£1	10	0
Above 6in. to 8in. ,,	1	15	0
,, 8in. to 10in. ,,	2	0	0
,, 10in. to 12in. ,,	2	10	0

IF YOU ARE INTERESTED IN ANY OF THE LARGER TELESCOPES PLEASE WRITE US FOR FULL PARTICULARS. YOU WILL REALISE THAT SPACE DOES NOT PERMIT US TO PRINT DETAILED DESCRIPTIONS IN THIS LIST.

Apparatus Valued.

Droits reservés au Cnam et à ses partenaires

G. SUNDRY APPARATUS—SECTION III.

		£	s.	d.
656/121	1½in. Finder Telescope, suitable for 6in. or 8in. telescope	4	0	0
665/87	Photometer Wedge, to screw over eyepiece	1	0	0
504/87	4¾in. Zinc Object Glass Cap, with set of stops	1	10	0
646/121	Finder Telescope	1	10	0
675/102	**Horne & Thornthwaite** Star Finder, with graduated circle, clamp and slow motion screw, levelling screws, in case	5	10	0
676/121	1¾in. Finder Telescope, suitable for 6in. or 8in. telescope	2	0	0
866–32/121	5in. Circle divided on silver to 30 minutes reading by 2 Verniers to 30 seconds, clamp arm and screw adjustment	2	10	0
611/121	**Hooke's** Joint Handle, solid mahogany	0	10	6
	See Section 4A (d) for Astro-Spectroscopes.			
642/130	Dynamometer, by **Dolland,** in case	1	10	0
664–24/S	Electric Clock, astronomical model, by **L. Leroy & Co.,** Paris, with central second hand, metre pendulum compensated, mounted on marble slab, in fine mahogany case and glazed door, with synchronising contact to the second	35	0	0
632/121	Table Stand, suitable for 2in. telescope	0	10	0
752–21/78	Heliostat, by **Baker**	7	10	0
640/94	Circular Glass Parallel Plate, 7½in. diameter	4	10	0
649/87	**Photometer Wedge, to screw over eyepiece**	1	0	0
924–16/121	Table stand, suitable for 2in. telescope	0	10	0
2/124/121	Astro Camera, fitted with 20in. Aldis F/5·6 lens, in focussing flange and 2 slides	20	0	0
3/124/123	Astro Camera, fitted with Ross 29in. Aero lens F/6·3 and 2 slides	30	0	0
4/124/121	Astro Camera, fitted with Ross F/4 wide angle Xpress lens, 10in. focus, with iris diaphragm, angle 80°, with focussing flange, 2 slides, new condition	30	0	0

"YOUR EYEWEAR."

ARE YOU AWARE?

THAT WE CAN IN THE MAJORITY OF CASES CARRY OUT REPAIRS OR FIT NEW LENSES, AND RETURN TO YOU THE SAME EVENING PROVIDED THE FRAMES ARE RECEIVED FIRST POST IN THE MORNING.

ON REQUEST A POSTAL BOX ALREADY ADDRESSED WILL BE SENT FREE.

THIS CAN BE KEPT READY FOR AN EMERGENCY. JUST PLACE THE GLASSES WITH A NOTE IN THE BOX, TIE SECURELY WITH STRING, AND DROP IN A PILLAR BOX.

OUR MAIL ORDER DEPARTMENT

WILL GIVE YOU SATISFACTION WHEREVER YOU RESIDE.

Apparatus Purchased for Cash.

Droits reservés au Cnam et à ses partenaires

SECTION IV.

SPECTROSCOPIC APPARATUS.

A. SPECTROSCOPES.

4A (a) TABLE INSTRUMENTS.

		£	s.	d.
519/92	Spectrometer for 2 prisms, no tube or collimator, in case	2	5	0
516/113	Self-Recording Spectrometer, screw micrometer, eyepiece	27	10	0
526/99	Uviol Glass Spectrograph	12	0	0
3/125/89	**Townsen & Mercer,** single prism, with adjustable slit, in case	3	10	0

4A (b) DIRECT VISION.

New	**Baker,** with adjustable slit and comparison prism	3	15	0
926–6/89	**Browning,** extra large, with spare eyepiece, adjustable slit, in case	5	0	0
926–7/89	**Browning,** 5-prism, with hinged telescope, extra eyepiece, micrometer slit, on stand, in case	8	10	0
926–20/89	**Browning,** 5-prism, with hinged telescope, adjustable slit, in case	5	15	0
7/126/88	**Schmidt** and **Haensch,** with adjustable and fixed slits, 4 test tube holders, mirror, complete in case	4	4	0
11/126/88	**Browning** 5-prism, with hinged telescope, adjustable slit and scale, in case	5	15	0
12/126/88	**Hilger,** with adjustable slit	4	10	0

4A (c) MICRO-SPECTROSCOPES.

517/143	Hartridge Reversing Micro Spectrometer, by **Bellingham & Stanley**	15	10	0
507/139	**Hilger,** with comparison prism, no case	9	0	0
509/99	**Hilger** Adjustable Slit and Comparison and Triple Prism Slit, no case	11	10	0
851–14/130	**Zeiss** Abbé, in mahogany case	7	10	0
821–14/130	**Zeiss** Abbé, in mahogany case	10	0	0
941–13/143	**Browning,** complete in case	4	0	0

4A (d) ASTRO-SPECTROSCOPES.

834–9/88	**McClean's** Star Spectroscope, in case	2	0	0
518/88	Star Spectroscope, with adjustable slit, standard screw fitting	3	0	0

Apparatus lotted and sent to Auction.

Droits reservés au Cnam et à ses partenaires

	A. SPECTROSCOPES—Continued.	£	s.	d.
4A (d)	**ASTRO-SPECTROSCOPES.**—Continued.			
508/89	**Browning,** in case	8	10	0
926–9/88	**Browning, McClean** Star Spectroscope	3	0	0
491–6/157	Astronomical Spectroscope, 2½in. object glass, prism, slit adjustment, telescope with rack and pinion motion tube, with direct vision prisms, in case	20	0	0
509/89	**Browning** Large Astro Spectroscope, with adjustable slit and centring attachment, in case	10	10	0
	New **Zöllner** Star Spectroscope, in case	2	10	0
519/88	**Browning** 2-Prism, micrometer reading, with accessories, in case	8	10	0
521/95	Large **Grubb,** single prism, Astro Spectroscope, with collimator telescope, fitted with micrometer and graduated on silver, standard **Grubb** fitting suitable for 6in. or 8in. telescope, in case	10	0	0
525/88	**Browning-McClean** Star Spectroscope	3	0	0
2/128	**Browning** 2-prism, with adjustable slit, in case	4	15	0
939–14/88	**Browning,** with adjustable slit, in case	3	10	0
3/128/88	**McClean** Sun and Star Spectroscope, with adjustable slit	3	10	0

B. SUNDRY APPARATUS—SECTION IV.

	4B (a) PRISMS. (See also under Section VIII. C.).	£	s.	d.
519/130	Pentagonal Prism	0	10	6
27/130	**Rutherford's** Compound Prism	1	0	0
520/130	Erecting Prism	0	10	6
541/130	Spar Double Image Prism, with plate in mount	1	2	6
545/130	Roof Prism, in mount	0	7	6
786–12/130	Direct Vision Prism of Glass and Oil of Winter Green	2	10	0
861–8/146	Equilateral Prism, on universal stand	0	15	0
861–16/130	Photometer Prism	1	10	0
861–17/130	Right Angle Prism, 50 m/m faces	2	0	0
870–19/130	Double Image Prism	0	15	0
1/129/130	Pair of Double Image Prisms, in brass mount, 15 m/m aperture	2	0	0
2/129/130	30in. Quartz Prism	2	10	0
4/129/130	Comparison Prism	0	7	6
909–29/130	R.A. Prism	0	12	6
580/130	Train of 3 Prisms	0	17	6
582/130	Right Angle Prism, 3in. × 1½in. × 1½in. faces	0	7	6
821–22/130	Spar Prism, 1⅞ × 1½in. faces	2	10	0
792–20/142	**Zeiss,** 60 m/m, R.A. Prism, in mount	5	0	0
6/129/	Pair of 30° Spar Prisms, 1¾in. faces, by **Hilger,** in metal mounts	8	0	0
7/129/	Pair of 30° Quartz Prisms, 1¾in. faces by **Hilger,** in metal mounts	8	0	0
870–28/130	Set of 4 Flint Prisms, various angles, 45 m/m	2	0	0

Droits reservés au Cnam et à ses partenaires

SUNDRY APPARATUS—Continued.

		£	s.	d
4 B (a) PRISMS.—Continued.				
589/130	**Hilger** Double Image Prism, 20 m/m aperture	2	0	0
590/130	Train of 3 Prisms	1	5	0
856–12/130	2 Spar Prisms, 25 m/m × 30 m/m, 60 m/m long and 15 m/m × 20 m/m, 20 m/m long	4	10	0
4B (b) LENSES.				
SS	Large selection of Achromatic Lenses, particulars on request.			
4B (c) VARIOUS.				
22/130	Optical True Plane, 3in. diameter	4	10	0
584–11/130	Quartz Plano Test Plate	10	0	0
870–18/93	Stereoscopic Spectrum Viewer	2	10	0
1/131/130	Diffraction Ruling, on glass, 3in. × 3in.	0	10	0
2/131/130	Spectroscope Eyepiece	1	0	0
3/131/130	**Zeiss** Wedge Trough for Spectroscopic use	2	0	0
6/131/130	Original Grating, on metal, ruled on Rowland's Engine	10	0	0
9/131/130	2in. × 1½in. **Thorp's** Transparent Replica of Rowland's Metal Diffraction Grating, 14495 lines to the inch	1	5	0
956–12/130	6 Quartz Plates, 2in. square, approx. parallel ..... each	0	10	0
961–7/89	Spectroscopic Camera, grating type, with wave length scale, adjustable slit, 5 exposures on one ¼-plate	7	10	0

SECTION V.

PROJECTION AND OPTICAL BENCH APPARATUS. CINEMATOGRAPH APPARATUS.

A. LANTERNS.

		£	s.	d.
5A (a) ARC, and GAS FILLED LAMP TYPES.				
M/	**Baker** "C.B." Lantern, built on optical bench, complete with 8in. objective condensers and slide carrier	11	12	0
5A (b) OTHER THAN OXY-HYDROGEN.				

PROJECTION LANTERNS, ETC.

669/14/SR	Optical Bench, consisting of prism bar, 4 saddle pieces, lantern slide attachment, revolving table for microscope, automatic arc lamp with 2 tubular resistances, spare platform on saddle piece, all on wooden table	20	0	0
646/9	Projection Microscope, with coarse and fine adjustments, cooling trough, condensing lens, Cooke Series III., 1·25in. projection objective, in case	7	15	0
867–28/146	Projection Lens with erecting prism, on stand	2	0	0
513/144	**Baker** School Micro Projector, on stand	5	10	0
518/141	**Baker** School Projector, complete with lamphouse, microscope and stand	5	10	0
931–12/147	Pointolite Outfit, for lantern, with resistance 100-240	2	10	0
1/132/28	Cooling Trough for running water	0	15	0

Droits reservés au Cnam et à ses partenaires

	LANTERNS, Etc.—Continued.	£	s.	d.
514/143	**Baker** Substage Micro Projection and Drawing Apparatus	4	10	0
507/159	**Zeiss** 30-Amp. Clockwork-feed Arc Lamp, with 125 volt resistance, table top with optical bench, and dark curtains	10	0	0
503/143	**Leitz** School Projector, for micro projection only, with 210 v. resistance	5	5	0
511/27	Large Diaphragm Lens Holder	1	10	0
1/133/28	5 Optical Bench fittings, consisting of cylindrical lens, 4½in. condenser, bi-prism, adjustable split lens	2	10	0
8/53/MR	30-Amp. Prism Arc Lamp, with full mechanical adjustments, mounted on pin tray	2	10	0
1/75/MR	Lantern, with 8in. lens fitted for electricity, in carrying case	4	0	0
33/52/147	Lantern Micro Projection Attachment, with rack and pinion adjustment, mechanical stage, 1in. objective, detachable cooling trough, in mahogany case	5	0	0
3/133/28	Cooling Trough, on stand	1	0	0
965–8/28	**Zeiss** 1¼in. lens, on stem, 14 c.m. focus, with iris diaphragm	0	17	6
960–1/S	10×15 c.m. **Zeiss** Ica Aero Camera, detachable focal plane shutter, 4 changing boxes, case, new condition	20	0	0

OBJECTIVES AND LENSES.

SECTION VI.

TOURIST, LOOK-OUT NAVAL AND MILITARY TELESCOPES, FIELD AND OPERA GLASSES.

6A. TELESCOPES.

		£	s.	d.
822–2/S	**Zeiss** ×10 Prism Periscope, in leather case and sliding leg tripod	7	0	0
11/138/S	1¼in. **Officer of the Watch,** single-draw, leather covered	2	10	0
22/138/S	1½in. **Steward** (Lord Bury), 3-draw, leather covered	3	0	0
23/138/S	1in. **Negretti & Zambra** Spotter Telescope	1	15	0
24/138/S	2in. **Dolland** Signalling Telescope, 3-draw leather-covered	2	5	0
965–1/S	1⅜in. 3-draw Telescope	1	0	0
965-2/S	Single-draw Telescope	0	10	0

Apparatus let out on Hire, see page 36.

Droits reservés au Cnam et à ses partenaires

6B. FIELD GLASSES.

		£	s.	d.
847/S	7×25 Society Parisienne, eyepiece focussing, in case.....	3	5	0
7/139/S	**Ross** Stereo, ×10, eyepiece focussing, in case.....	6	15	0
10/139/S	**Zeiss,** 6×24, eyepiece focussing, in case	7	15	0
109/139	**Zeiss,** 6×30, Silvamar, eyepiece focussing, in case.....	9	10	0
110/139	**Zeiss,** 8×24, Delturis, eyepiece focussing, in case.....	9	0	0
117/139	**Bausch & Lomb,** 6×30, eyepiece focussing, in case.....	3	15	0
120/139	**Zeiss,** ×8 Monocular.....	3	15	0
144/139/S	**Ross,** 9×30, Stepruva. centre wheel focussing, in case...	12	0	0
147/139	**Zeiss,** 8×24, Turita, centre wheel focussing, in case.....	14	10	0
148/139	**Moeller,** ×6, Tourixam, centre wheel focussing, in case	9	10	0
149/139	**Moeller,** ×6, Tourix, eyepiece focussing, in case.....	8	10	0
151/139	**Zeiss,** 8×30 (Deltrintem), centre wheel focussing, in case	11	15	0
142/139	**Watson,** 6×24, eyepiece focussing, in case	4	5	0
128/139	**Beck,** ×5, Galilean, in case	2	10	0
129/139	**Zeiss,** 8×40, Delactis, eyepiece focussing, in case	15	0	0
131/139	**Hensoldt,** 6×35, centre wheel focussing, in case	9	9	0
137/139	**Zeiss,** 8×40, Delactis, eyepiece focussing, in case.....	15	10	0
941–16	**Moeller,** ×3½ Theatis, in case	7	10	0
154/139	Ivory Opera Glass	1	5	0
158/139	8×30 **Kershaw** W.A., eyepiece focussing, in case	9	15	0
159/139	6×30 **Zeiss** (Marineglas), eyepiece focussing, in case.....	9	10	0
955–6/S	**Ross,** 6×30, Stepnac, eyepiece focussing, in case.....	10	10	0
161/139	**Leitz,** 8×30 (Binuxit), centre wheel focussing, in case...	15	0	0
162/139	Ross, ×7, Stepnada, centre wheel focussing, in case.....	12	15	0
163/139	8×25, **Bausch & Lomb,** centre wheel focussing, in case	5	10	0
164/139	8×30, **Busch,** centre wheel focussing, in case	9	15	0
166/139	6×24, **Kershaw,** eyepiece focussing, in case.....	3	15	0

SECTION VII.

APPARATUS FOR THE DETERMINATION OF TIME, VELOCITY, HEAT, PRESSURE, WEIGHT, SPECIFIC GRAVITY, SIZE, QUANTITY, DISTANCE, ETC.

7A. TIME.

7A (a) SUN DIALS, &c.		£	s.	d.
New	8in. Brass, plainly divided for latitude of London or a 30-mile radius	2	12	6
507/89	Universal Portable Sundial, 5in. hour circle, 2 levels, 3 adjusting screws, engraved for N. and S. latitudes, with compass	4	10	0
508/S	Portable Sun Dial, by **Casella,** in case.....	3	0	0
821–2/91	**Spencer** Celiostat, on board, with levelling screws	7	10	0
883–22/75	6in. Universal sun dial, in case.....	3	0	0
7A (b) CHRONOMETERS, &c.				
3/142/95	**Dent,** 8-day Chronometer, in case	22	10	0

7B. VELOCITY.

7B (a).				
525/99	**Lown's** 5-dial Air Meter, reading to 100,000 ft., in case...	4	15	0
5/143/99	5½in., with 5 dials, reading to 10 million feet, in case.....	3	0	0

7B (b) VARIOUS.

Apparatus Sold on Commission.

Droits reservés au Cnam et à ses partenaires

7C. HEAT.

7C (c) TRADE THERMOMETERS.

		£	s.	d.
	Confectioner's Thermometer	0	8	6
567/158	Dial Thermometer, 7ft. stem, reading to 350° centigrade	1	10	0
569/158	Dial Thermometer, 2ft. stem, reading to 350° fahrenheit	1	1	0
572/158	Dial Thermometer, 3ft. stem, reading to 500° centigrade	1	15	0
880–15/S	Pair of Maximum and Minimum Thermometers, Centigrade and Fahrenheit, ivory scales, in case	1	10	0
910–20/124	Dial Thermometer, with 6½in. stem, reading to 200° fahrenheit	1	0	0

c (d) ALL-GLASS THERMOMETERS DIVIDED ON STEM.

448–1/24	Insulated Chemical Thermometer	0	6	6

7C (e) THERMOMETERS.—Various.

835–2/124	**Negretti & Zambra** Standard Maximum Thermometer	1	0	0
835–3/124	**Negretti & Zambra** Standard Minimum Thermometer	1	0	0
574/96	**Dewar & Fleming** Standard Platinum Thermometer...	5	0	0
575/91	Pair of **Hicks'** 24in. Glass Thermometers, 0·57 centigrade, in case	0	10	0
523/122	T. & S. Thermometer, on metal base, reading from 170° to 250°	0	12	6
902/3/S	12in. **Sugden's** Thermometer, with magnifying lens front, reading 30°—120° F	0	17	6
902–4/S	24in. **Sugden's** Thermometer, with magnifying lens front, 20°—120° F.	2	0	0
862–22/124	**Negretti & Zambra** Maximum Thermometer	1	0	0
862–23/124	**Pastorelli & Rapkin** Minimum Thermometer	1	0	0
543/121	10in. Maximum and Minimum on silvered metal scale, with water tank, in case	2	0	0
711–16/124	**Baker** Maximum and Minimum Thermometer, in case	1	5	0
711–15/124	Deep Sea Thermometer	1	0	0
576/S	**Lambrecht's** Polymeter, with Thermometer	0	15	0
906–30/124	Pair of Maximum and Minimum Thermometers, in case	1	4	0
906–31/124	14in. Standard Thermometer, on silver metal scale, 30°—230°, cent. and fahr., in case	1	0	0
910–29/124	Low Reading Thermometer × 20 to 150°C	0	12	6
1/147/124	12in. Maximum and Minimum Rototherm Thermometer, 0–120	2	10	0

7D. PRESSURE.

7D (a) STANDARD MERCURIAL BAROMETERS.

908–1/S	**Richard Frères** Vacuum Recording Pressure Gauge, with clock, in case	5	0	0
1/148/99	**Davis,** U. Pressure Gauge, in case	0	10	0

We can also offer a good selection of Incubator, Chemical and Minimum Thermometers at reduced prices.

Apparatus lotted and sent to Auction.

Droits reservés au Cnam et à ses partenaires

		£	s.	d.
7D (b) MERCURIAL BAROMETERS—PEDIMENT, WHEEL PATTERN, &c.				
46/S	8in. Inlaid Polished Mahogany Mercurial Dial Barometer, with thermometer, by **Alietti**	4	10	0
47/S	Polished Carved Oak Pediment Barometer, with large column double vernier and thermometer	7	10	0
50/S	8in. Satin Barometer, wheel pattern, with thermometer	4	4	0
53/157	**Capt. George's** Surveying Mercurial Barometer, with spare tube and round mahogany tripod, in mahogany case	10	0	0
55/S	10in. Mahogany Mercurial Barometer, with level and mirror, by **C. Fenn**	5	15	0
938–10/S	8in. wheel, Mercurial Barometer, mahogany shell pattern	4	10	0
958–8/S	8in. Inlaid Walnut Wall Barometer	3	0	0
7D (c) ANEROID BAROMETERS—PEDESTAL, PENDANT AND RECORDING.				
323–1	**Hicks'** Patent Mercurial Barometer, mounted on pedestal base	5	5	0
884–24/S	8-Day Barograph, in glazed brass case	4	10	0
902–16/S	**Richards** Micro Barograph, with dial in m/m and inches, in glazed oak case	15	0	0
37/S	Mercurial Barometer, by **Dellatori,** in good condition	5	15	0
42/S	10in. Mercurial Barometer, in oak frame, by **Pastorelli & Rapkin,** with thermometer	4	10	0
522/S	10in. Pendant Aneroid, carved oak frame, best quality compensated movement, silvered metal dial, with thermometer	4	15	0
13/150/76	Hair Hygrograph, with 24-hour clock, in white japanned metal case	5	5	0
948–3/S	**Short & Mason** 8-day Barograph, in oak glazed case	7	0	0
951–6/S	Holosteric Barometer, in leather case	2	0	0
7D (d) ANEROID BAROMETERS—TRAVELLING AND SURVEYING.				
520/124	5in. (nickel case) Compensated Metric Scale, with thermometer and leather case	3	0	0
491–2/124	Surveying Aneroid, graded in metres up to 5,000 metres	2	0	0
537/S	4½in. Compensated Aneroid, by **T. Cooke,** altitude scale to 8,000ft., in leather case	3	15	0
511/124	**Watkin** Mountain Aneroid, by **Hicks,** compensated, metric scale	4	0	0
514/124	**Watkin** Compensated Aneroid, by **Saunders,** altitude scale to 5,000ft	4	0	0
886–10/S	Combined Watch form Aneroid and Compass, in case	2	10	0
934–6/S	3in. **Troughton & Simms,** Altitude Scale to 12,000 feet, compensated, in leather case	3	10	0
5/151	2½in. Pocket, nickel case, compensated altitude scale to 4,000 feet, in case	2	15	0
7/151/S	4½in. **Stanley** Surveying Aneroid, compensated, altitude scale to 4,000 feet, in case	4	10	0
573/S	4in. **Adie** Surveying Aneroid, compensated, altitude scale to 5,000 feet, in sling case	3	10	0
602/S	4½in. **Baker** Surveying Aneroid, with rack rotation reader to vernier, compensating, altitude scale to 5,000 ft	5	0	0
10/151/S	3in. **Watts** Compensating Aneroid, with altitude scale to 5,000ft., in case	3	10	0
7D (e) BOILING POINT APPARATUS.				

Apparatus lotted and sent to Auction.

Droits reservés au Cnam et à ses partenaires

7E. WEIGHT.

		£	s.	d.
E7 (a) BALANCES AND MACHINES.				
887–24/	**Avery** Automatic Counter Scales, indicating up to 11 lbs. by ¼ lb.	2	10	0
889–4/95	**Salter's** Cycle Balance, to weigh up to 40 lbs. by ¼ lb.	0	10	0
764/S	**Cary** Balloon Balance, Gendle pattern, complete	3	0	0
763/S	**Cary** Balloon **Balance, Gendle pattern, complete**	2	5	0
883–12/SR	**Avery** Personal Weighing Machine, platform type with height measurer, weighing to 24 stone	9	10	0
883–13/SR	**Avery** Personal Weighing Machine, platform type, weighing to 150 Kilog or 330 approx. English lbs.	6	10	0
883–14/SR	**Avery** Weighing Machine, platform type to weigh up to 3 cwt.	8	15	0
10/153/S	Analytical Balance, Short Beam, graduated 100 divisions, to read 0·1 m/g with 5 m/g rider, in glazed mahogany case	10	0	0
22/153	**Ainsworth** Assay Balance, with agate knife edges rider slide, in mahogany glazed case	7	10	0
22/153	Bullion Balance, with 9in. triangle beam to carry 2lb. turn to 2 grains, steel knife edges, chromium plated, in mahogany glazed case, as new	8	10	0
23/153	Chemical Balance, with divided beam, sensitive to 0·2 m/m, in glazed case	6	10	0
15/153	**Oertling** Analytical, with 12in. beam, single rider slide, to carry 100 grammes, sensitive to 0·2 m/g	4	0	0
18/153	**Bunge** S.B. Analytical, to carry 200 grammes, sensitive to ·1 m/g	12	10	0
26/153	**Becker** Analytical Balance, short beam, turn to ·1 m/g, to carry 200 grammes	8	10	0
955–1/S	**Sartories** Analytical Balance, to carry 200 grammes, turn to ·1 m/g, in glazed mahogany case	12	12	0
30/153/SR	Chemical Balance, with 12in. beam, pans swung on platinum, in glazed case	1	10	0
7E (b) WEIGHTS.				
564/95	Set of Weights, 1 kilogramme to 1 milligramme and riders	3	0	0
883–15/	Set of **Avery** Brass Bell Weights, 28 lb. to ½ dr., complete in oak case	4	0	0
883–16/	Set of **Oertling** Weights, 7 lbs. to ½ dr., in mahogany case	4	0	0
27/154/95	Set of **Oertling** Weights, 1,000 grains to fractions	0	15	0
28/154/95	Set of Weights, 100 grammes to fractions	1	1	0
29/154/95	Set of Weights, 50 grammes to fractions	0	18	6
7E (e) SPECIFIC GRAVITY.				
835-4/124	Hydrometer, with wet and dry bulb, centigrade scale	1	1	0
561–3/124	**Sikes'** Hydrometer, with glass vessel, in mahogany case	0	18	0
504/99	**Sikes'** Hydrometer, with tables	1	15	0
852–6/99	**Sikes'** Hydrometer, with tables	1	15	0
841–22/S	Specific Gravity Balance, **Westphil**	1	10	0

7F. DISTANCE.

822–2/S	**Zeiss** × 10 Prism Periscope, on stand	7	0	0
22/121	**Zeiss** Periscope	2	10	0
889–24/158	**Zeiss** Prismatic Binocular Periscope, ×10 and 18× magnification, complete in case, with sliding leg tripod	7	10	0
924–13/121	**Steward** Range Finder, in case	1	0	0
1/156/81	**Stanley** Subtense Telemeter, for measuring distances, with socket for tripod, in leather case	4	4	0
4/156/82	Telemeter, by **Wagner**	3	0	0
5/156/82	**Stanley** Telemeter, complete in case	3	0	0
946–3/S	**Steward** Telemeter, in case	2	0	0
946–4/158	**Barr & Stroud,** No. 2 Infantry Range-finder	7	10	0

Droits reservés au Cnam et à ses partenaires

7G. CALLIPERS, GAUGES, ETC.

		£	s.	d.
857–4/94	**Starrett** Inside Micrometer, in case	2	10	0
2/157/93	**Cicerimet** Self-Calculating Micrometer Gauge, capacity 25 m/m, reading 2 c/m plus ·54 decimal fraction of centimetre, in case	4	4	0
10/157/93	**Cicerimet** Self-Calculating Micrometer, for inside measurements, reading hundredths and thousandths of an inch, in case	3	15	0
12/157/93	**Cicerimet** Self-Calculating Micrometer, capacity 8 m/m, reading 2 m/m plus ·46 decimal fraction of a millimetre, in case	3	5	0
15/157/S	1in. **Brown & Sharp** Micrometer Gauge, with ratchet, in case	1	10	0

7H. SUNDRY APPARATUS—SECTION VII.

880–22/S	Recording Hygrograph by **Bourgeois**	4	10	0
881–1/159	Mercury Pump, with 1in. and millimetre barometric scales	8	0	0

SECTION VIII.

PHYSICAL AND OTHER APPARATUS SUITABLE FOR DEMONSTRATION.

8A. AIR PUMP APPARATUS.

AIR PUMPS.

		£	s.	d.
563/93	Syringe, for compression	0	10	6
861–34/97	Exhausting and Condensing Syringe	1	2	6
906–2/159	Large Bell Glass Vacuum Apparatus	1	0	0

8B. POLARISING APPARATUS.

8B (a) INSTRUMENTS.

528/89	Polariscope, in case	1	0	0
595/135	**Duboscq** Stand Polariscope	10	0	0
589–9/96	**Wheatstone's** Polar Clock, by **Darker,** with description as read by Professor Wheatstone before the British Association in 1848, in case	4	10	0
2/160/86	**Newton's** Elbow Lantern Polariscope, with nicol 20 m/m × 25 m/m, 50 m/m long, in case	10	0	0
881–20/86	Polar Clock, with 4in. semi-circular face, with black glass analyser, all mounted in mahogany	2	0	0
907–16/102	Table Polariscope, with 2 special designs, 8in. × 6in. and 6½in. × 4¾in.	10	0	0
910–8/100	Polariscope	3	0	0
910–26/91	Polarisation Apparatus, after **Mach,** with 2 nicol prisms, 1 of which rotates, gap attachment, glass press, and direct vision prism, as new	12	12	0
3/160/89	**Goertz** Hand Saccharometer, with 1 tube 94.7 m/m, as new	6	0	0
6/160/89	Student's Polarimeter, with 1 tube	3	0	0
7/160/89	**Schmidt & Haensch** Saccharometer, reading by Vernier to ·1in. on stand	35	0	0
8/160/89	Saccharometer, reading by Vernier to ·1°, on stand	35	0	0
10/160/86	**Newton's** Elbow Lantern Polariscope, with large nicol, in case	10	0	0

Droits reservés au Cnam et à ses partenaires

POLARISING APPARATUS—Continued. £ s. d.

8B (b) SPECIMENS.

The following are suitable for Table or Lantern Polariscopes, and are mounted in glass discs of a standard size of 1⅜in. diameter :—

807–23/143	Educational Polarized Light Apparatus	1	0	0
668–11/123	Various Selenites in mounts ....each	0	7	6
668–12/123	Selenite Figure	0	12	6
668–13/123	Special Selenite	0	10	6
807–24	4in. Quartz Plate, clear aperture, ¼in. thick	7	10	0
807–28	Bi-Quartz Plate, R. & L., showing artificial spiral	2	0	0
807–29	Concave Quartz Plate, 1⅛in. aperture	1	10	0
886–11/S	Tourmaline Tongs	0	17	6
1/161/123	Bi-Quartz Plate, 12 m/m dia., in mount	0	10	0
2/161/123	Quartz Lens, 1¼in. dia., 40in. focus in cell	2	0	0
3/161/123	85 Very Fine Polariscope Specimens believed to be part of the late Prof. Sylvanus Thompson collection	10	0	0
4/161/123	Set of 20 Polariscope Specimens, in case	1	10	0

8C. PRISMS, ETC.

(See also under Section IV.)

45/132	Large Nicol Prism, 30 m/m × 20 m/m × 45 m/m long, chipped	4	10	0
527/89	**Feild's** Differential Polariscope, with large Nicol prism, 35 m/m × 25 m/m condensing lens, rack rotation to selenites, in mahogany case, with stand	20	0	0
41/132	Large Nicol Prism, 30 m/m × 20 m/m × 35 m/m long	12	10	0
43/132	Large Nicol Prism, 25 m/m × 45 m/m × 65 m/m long	20	0	0
44/132	Large Nicol Prism, 23 m/m × 33 m/m × 49 m/m long	12	10	0
872–14/132	Large Nicol, 25 m/m × 15 m/m × 30 m/m long	6	10	0
926–2/146	Large Nicol, 33 m/m × 25 m/m long, on stand	12	10	0
926–13/132	Nicol Prism, 16 m/m × 55 m/m long	3	10	0
2/162/132	Nicol Prism, 30 m/m × 25 m/m × 55 m/m long	12	0	0

8E. ELECTRICAL APPARATUS.

823–16/99	Linesmen Galvanometer	0	10	0
825–19/94	Potentiometer, 240 ohms., 0·2 amps. max.	0	18	6
807–22/100	**Western** Amp. and Milliampmeter, 0-60–120	1	15	0
526/148	110 volt 1·6 amp. Motor, vertical drive	3	3	0
823–4/94	Resistance Box and Galvanometer	2	10	0
823–9/94	**Nalder** Bridge Testing Set	10	0	0
823–2/93	Unipivot Galvanometer, 30 M.V.	3	0	0
831–8/101	Resistance Box, total 133,330 ohms., with contact key and galvanometer	8	10	0
859–19/84	**Sir W. Thompson's** Quadrant Electrometer	10	0	0
885–2/159	Large Electric Egg	1	15	0
885–4/94	Electric Pistol	0	5	0
885–15/97	**Henley's** Universal Discharger	1	0	0
886–23/159	**Amperes'** Apparatus for demonstrating action of magnets on current	0	18	6
905–21/159	**Kelvin's** High Tension Electrostatic Voltmeter, 1,000—2,000 volts. Cost £35 10s. 0d	15	0	0
905–6/159	**Kelvin's** Ampere Gauge, 0—140	1	10	0
905–22/100	**De La Rives** Apparatus	0	15	0
905–28/95	Three Brass Rocking Bars	0	7	6
862–19/83	Battery of 4 **Leyden** Jars, 2-pint size, in tray	1	7	6
859–34/SR	Self-exciting Influence Machine, 20in. plates	5	0	0
859–39/S	Electric Cannon	0	18	6
859–42/75	Electric Egg	1	5	0
906–1/159	**Kelvin's** Patent Rheostat	3	10	0
956–11/96	**Crompton** Reflecting Galvanometer, in case	3	0	0

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8E. ELECTRICAL APPARATUS—Continued.

		£	s.	d.
958-3/159	Electric Furnace, double tube, 1¾in. × 12in., 200 v., max. amp. 8·3	5	0	0
9/163/159	3in. Spark Coil	5	0	0
938-9/S	Electric Timing Fork, 250V.D.	5	0	0
1/163/159	**Redwood** No. 1 Viscometer, with 2 thermometers 130°—250° F.	7	10	0
2/163/159	**Pensky Martin** Flash point Apparatus, 200 volts, with thermometer 250° F.	6	18	6
3/163/159	Electric Egg	0	7	6
5/163/100	Medical Magneto	1	5	0
860-38/95	Pith Figure Plates	0	7	6
860-40/99	Volt and Amps Meter	0	12	6
862-15/92	**Ritchie's** Electric Motor	1	5	0
802-17/S	Electrical Cannon	0	15	0
802-18/S	Lightning House	0	7	6
802-19/S	Morse Key and Sounder	0	10	3
805-3/100	10,630 ohms Resistance Box and Galvanometer, in case	7	0	0
867-12/159	Wheatstone Bridge, with jockey, standard pattern	2	10	0
862-18/91	Ampere Apparatus, with accessories	2	10	0
882-11/159	Milliampmeter, 100-500, on 3ft. glass rod and stand	2	10	0
862-26/93	Ampmeter, 0—70	0	7	6
862-27/93	Voltmeter, 0—100	0	7	6
867-6/79	Four Large Leyden Jars, 4-pint size, in wood tray	2	0	0
883-23/	Mercury Vapour Lamp, water-cooled, on marble slab for clamping to wall, with Westinghouse rectifier, switch board, resistance, and meters in separate mahogany glazed case	25	0	0
887-3/159	**De La Rive's** Apparatus for showing rotation of electric luminous flux about electro magnet	2	0	0
887-4/92	Discharging Tongs	0	10	6
887-10/90	Unit Jar (**Harris**), on stand	0	15	0
888-25/94	**Warralt** Ammeter, 0—4	0	10	0
888-29/95	Ammeter, 60—0—60	0	5	0
888-30/95	Ammeter, 25—0—25	0	5	0
889-1/93	Ammeter, 0—50	0	10	0
889-2/93	Ammeter, 0—5	0	10	0
889-3/93	Ammeter, 5—0—5	0	10	0
889-5/94	Ampmeter, 0—20 volt meter, 0—300, in mahogany case	2	0	0
889-21/94	Power switch	0	5	0
907-9/98	Galvanometer Lamp, with scale	1	10	0
910-1/159	Large **Leyden** Jar	0	10	0
910-3/159	Large **Leyden** Jar	0	7	0
910-11/96	**Crompton** 1-ohm Standard, 0—10	1	10	0
910-9/100	**Hibbert's** 1-volt Standard, 1—11	1	0	0
910-12/159	Three Brass Insulated Stands ..... each	0	5	0
910-27/S	Radium Clock, with 2 m/g of radium	10	0	6
867-13/159	Wheatstone Bridge, for Foster's method, 1 metre	1	15	0
7/163/S	**Whimshurst** Machine, 14in. plates	5	10	0

8F. SUNDRY APPARATUS—SECTION VIII.

44/123	Pair Miller's Discs, in Blondlot N Rays, in mahogany case	0	5	0
454-24/139	**Beck** Radium Applicator, equal to 1 milligramme of pure radium bromide	12	10	0
536-10/139	Oil Blow Pipe Lamp, on stand	0	7	6
14/164/S	Gyroscope	2	0	0
15/164/S	**Wheatstone's** Compound Gyroscope, in case	2	10	0
16/164/95	Kaleidoscope	1	0	0
18/164/S	Kaleidoscope	0	15	0

Droits reservés au Cnam et à ses partenaires

	8F. SUNDRY APPARATUS—SECTION VIII.—Continued.	£	s.	d.
19/164/S	Large Kaleidoscope, on table stand	1	5	0
20/164/159	Large Case of Geological Specimens	2	0	0
21/164/94	Case containing 90 various Geological Specimens	2	10	0
23/164/94	Case containing 50 Geological Specimens	1	0	0
577–7/102	Ash Travelling Dental Drill, with extra drills	10	0	0
546/95	Viscometer, for honey and sugar	5	0	0
7/164/101	Water Level Apparatus	0	7	6
41–5/71	Draughtboard and Men, in black and white glass	1	0	0
905–24/93	Aneroid, scaled for air pump	1	0	0
554/147	Tube of Radium	6	0	0
512–15/84	" Soloid " Water Analysis Case	3	3	0
885–16/97	Fire Syringe	0	10	0
886–13/93	Injection Syringe, with 3 Canulae	1	0	0
886–15/93	Siren, with indicator giving number of revs	2	0	0
889–6/93	Pair of Bar Magnets, 30 c/m × 1 c/m, in case	0	10	0
889–7/94	Large compound Horse Shoe Magnet	1	0	0
889–9/159	**Bramah** Hydraulic Press	5	0	0
557/144	Windmill	0	15	0
559/149	Air Fountain	1	0	0
562/77	Incline Plane	0	8	6
563/93	Syringe for compression	0	10	6
566/84	" Soloid " Water Analysis Case	1	10	0
	Birch Recording Drum	4	10	0
597–140	**Traube's** Stalogmometer, in case	0	7	6
602/100	Galvanometer Scale	1	0	0
870–25/159	Apparatus for revolving 3 large vacuum tubes (no tubes)	1	1	0
862–30/94	Set of 3 Discs, flat and curved surfaces for Spherometer tests	1	10	0
862–29/94	Set of 6 Typical Lenses (1 broken), in case	0	17	6
862–31/93	Wheatstone Photometer	2	0	0
862–35/146	3½in. Condensing Lens, on stand	1	0	0
859–3/96	**Harvey & Peak** Double Siren	8	10	0
859–9/74	7 Tuning Forks, mounted on sounding boxes	5	0	0
859–10/159	Analysis of Sound Apparatus, with 8 Helmholtz resonators	10	0	0
859–18/159	**Geryk** Double Cylinder Air Pump, cylinders 5in. and 2in.	12	10	0
859–33/94	Model of Lift Pump	0	18	6
859–44/158	Cathetometer, 6ft., divided rod every 10 c/m, supplementary tube, divided in m/m, with vernier	12	0	0
860–2/92	Fluorescent Screen, 12in. × 9in	3	0	0
861–35/76	Air Pump Plate, on stand, 12in. diameter	2	0	0
862–6/93	Pair of Long Pattern Triple Pulleys	0	7	6
862–7/140	Reflection and Refraction Apparatus	5	0	0
862–20/76	Bell, in vacuo	0	17	6
867–9/S	**Arzberger** Filter Pump	0	12	6
867–11/94	Fire Syringe	0	10	0
867–30/95	**Berkefeld** Portable Filter, in case	0	10	6
867–32/159	Whirling Table	2	0	0
905–27/S	Singing Bird, operated by sound vibrations from a distance	5	5	0
910–7/101	Telescope Kaleidoscope	2	0	0
907–10/98	**Sovart's** Toothed Wheels, on stand, with hand-driving gear	3	10	0
906–25/159	**Elliott** Flash Point Apparatus	2	15	0
10/164/94	**Steward** Refractometer	3	3	0
11/164/84	**Zeiss** Pulfrich Crystal Refractometer, with 3 objectives, D.V. spectroscope attachment, 8 specimen prisms, 3 testing specimens, quartz, topaz, Iceland spar and fluids, complete in case	125	0	0

All Classes of Apparatus Repaired.

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	8F. SUNDRY APPARATUS—SECTION VIII.—Continued.	£	s.	d.
886–20/100	Condensing and Exhausting Syringe	0	10	0
12/164/94	**Baird & Tatlock** Spherometer, in case	1	0	0
5/164	Gyroscope Top	1	0	0
938–2/101	Metronome	0	7	6
938–12/93	Tuning Fork	0	10	6
938–13/93	Tuning Fork	0	7	6
1/163/159	**Redwood** No. 1 Viscometer, with 2 thermometers 130°—250° F.	7	10	0
2/163/159	**Pensky Martin** Flash point Apparatus, 200 volts, with thermometer 250° F.	6	18	6
907–14/98	Oscillating Prism, complete with whirling table	2	10	0
1/164/S	**Steiner** Portable Model Viscometer, for rapid estimation of viscosity of oil, accuracy + — ½ per cent. New price, £12	6	10	0
870–6/159	Mahogany Photometer Bench, 60in. scale, with gas jet, candle holder and sliding fitting	1	0	0
859–17/94	**Salter's** Dynomometer, 10 cwt. by 7 lbs.	1	0	0
881–9/S	**Fressel's** Compound Gyroscope	4	4	0
886–27/141	Neutral Glass Wedge, 6½in. × ¾in.	0	7	6
887–1/94	**Wheatstone** Photometer	1	10	0
888–1/124	23 Circular 2in. Filters, mounted in mahogany frames	1	0	0
881–22/159	**Wheatstone** Wave Apparatus, with set of slides for demonstrating various phases of undulations, interference, etc.	5	0	0
882–10/159	**Elliott** Glass Mirror, 24in. × 4in., in brass frame, on upright sliding tube with rack adjustment, on levelling base	1	10	0

9A (a) OPHTHALMOLOGICAL TRIAL CASES

1/165/158	Roll top sight testing cabinet, in oak, containing 140 spherical, 80 cylindrical lenses, 16 prisms, in metal frames	12	10	0

9B (a) OPTICAL MACHINERY.

9 AB SUNDRY APPARATUS, SECTION IX.

564/93	Rotary Prism, prism value 0-30D, in good condition	0	17	6
	Quantity of Spherical and Cylindrical Lenses suitable for experimental and optical bench use.....per doz.	0	5	0

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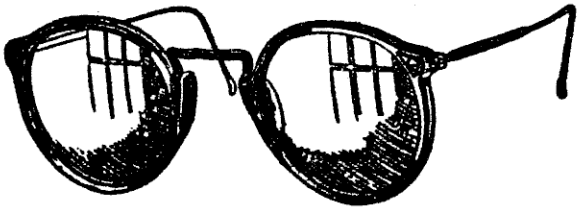

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