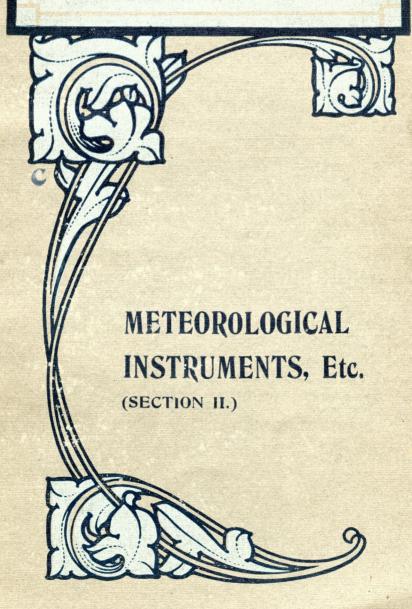
T. COOKE & SONS

LIMITED

LONDON, YORK & CAPE TOWN



MESSRS.

T. COOKE & SONS

LIMITED

Illustrated Catalogue (Sec. II.)

(FOREIGN EDITION)

- OF -

Meteorological Instruments, Etc.

Separate Catalogues of Astronomical, Surveying, and Drawing Instruments, Drawing Office Stationery. Spectacles, Cameras and Photographic Apparatus, may be had on application.

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THE prices quoted in this Catalogue are nett for cash, and are for goods delivered, duty paid, at our Branch Establishment in Cape Town.

Should any article ordered be out of stock, it will be supplied with the least possible delay.

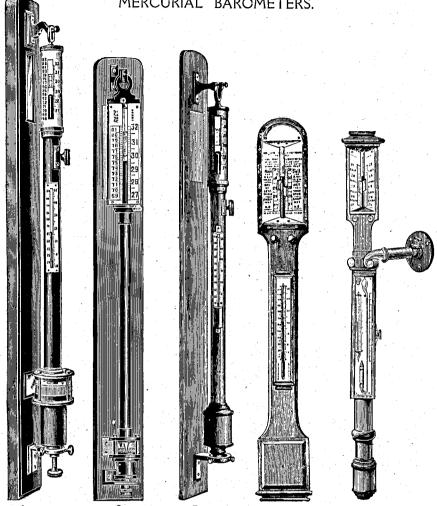
Messrs. Cooke & Sons have had large experience in supplying complete outfits to Engineers, Surveyors, Explorers, Prospectors, Miners, and others, and will be pleased to advise any such as to the choice of the most suitable instruments and apparatus for any special purpose. They can, and do frequently, supply a large variety of other goods in addition to those here catalogued, and will obtain to order anything that may be required on receipt of instructions.

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Messrs. Cooke & Sons employ at their South African Branch, 18, Strand Street, Cape Town, a staff of workmen specially trained in their Factory at York, England, capable of effecting Repairs and Adjustments to any class of instrument in the shortest possible time.

MERCURIAL BAROMETERS.

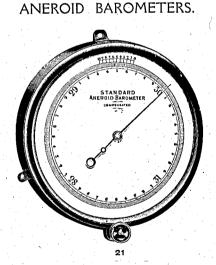


- 1. STANDARD MERCURIAL BAROMETER on Fortin's principle, in which the mercury is adjusted at each observation to a fixed ivory point, which is the zero of the scale. Bore 0.5 in. dia. Scale divided on one side to inches and $\frac{1}{20}$ ths, and on the other to c/ms and m/ms, and reading by verniers to $\frac{1}{20}$ th in, and $\frac{1}{20}$ th m/m respectively. Opal glass reflectors, adjusting screws at base; a sensitive thermometer divided on the stem is attached to the tube, and the whole is mounted on a mahogany board £13 10 0
- 2. Kew Certificate, extra
- 3. STANDARD MERCURIAL BAROMETER as above, but of bore 0.3 in, dia.:scaled inches and metric 10 10 0 ...
- 4. STANDARD MERCURIAL BAROMETER as No. 3, but with one scale only, inches or metric, as preferred
- 5. STUDENT'S MERCURIAL BAROMETER on Fortin's principle, bore 0.25 in. Scaled English and metric and reading by verniers to τ_{00}^{1} th in. and τ_{00}^{1} th m/m. Mounted on a mahogany board, with thermometer
- 6. STUDENT'S MERCURIAL BAROMETER as above, but of cheaper make and less expensive finish, without thermometer 5 5 0

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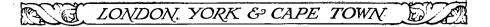
7. STANDARD MERCURIAL BAROMETER, Kew principle, in which the barometric scale is graduated to compensate for the rise and fall of the mercury in the cistern. Bore 0.5 in. dia.:—scale reading to $\frac{1}{500}$ th in., a sensitive thermometer divided on the stem is attached to the tube, and the whole is mounted on a mahogany board. Opal glass reflector and adjusting screws at base £11 0 0
8. Kew Certificate, extra 1 5 0
9. STANDARD MERCURIAL BAROMETER as No. 7, but bore 0.3 in. dia. 8 10 0
10. STANDARD MERCURIAL BAROMETER, Kew principle, as used by the Board of Trade, Admiralty, and Meteorological Office, with bronzed-brass tube, contracted to prevent oscillation during sudden changes of pressure, and iron cistern. The scale reads to the in. Thermometer attached to the tube which is swung in gymbals, with flexible arm for hanging up
13. MERCURIAL BAROMETER, Board of Trade pattern, as used at Coastguard Stations, in round-top solid oak frame, with thermometer 6 0 0
14. MERCURIAL BAROMETER, square top pediment, with opal glass scales, in mahogany or oak frame, with thermometer 5 0 0
15. MARINE MERCURIAL BAROMETER, with single vernier and attached thermometer, in oak frame revolving in centre ring and gymbals 4 15 0
16. Ditto, with double vernier, and ivory scales reading to $\frac{1}{100}$ th in 5 5 0
17. Ditto, with symplesometer 6 5 0
For Captain George's portable Mercurial Barometer see Surveying

Instrument Catalogue (Section 1).



21. STANDARD ANEROID BAROMETER, in heavy bronzed metal case, 8 in. dia., silvered-metal dial, hand engraved, scale range 28 in. to 31 in., or otherwise as desired, reading by a vernier to 7000th in., compensated for temperature, certificate of comparison throughout the scale with a verified Kew standard accompanies each instrument. The mechanical movement is the most perfect obtainable, and is much more sensitive than a mercurial barometer, showing instantly the most minute variation of the atmospheric pressure £17 10 0

This instrument is especially suitable for the Colonies and abroad owing to the difficulty of safely transporting standard mercurial barometers to out-of-the-way places.



HALL BAROMETERS.







PENDANT-FRAME HALL ANEROIDS.

Made in a great variety of patterns; new designs are being constantly added:-

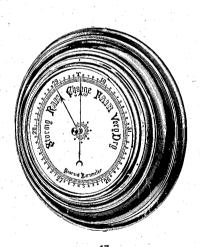
	o sale in the sale	
26.	CARVED OAK PENDANT-FRAME HALL ANEROID, with closed porcelain dial and thermometer:—5 in. dia., 30/-; 6 in. dia., 35/-; 8 in. dia £2 2	0
27.	Ditto, with open face, showing works:—5 in. dia., 33/-; 6 in. dia., 38/-; 8 in. dia 25	0
28.	Ditto, of more elaborate design, with either closed or open porcelain dial and thermometer:—5 in. dia., 40/-; 6 in. dia., 45/-; 8 in. dia 2 12	0
29.	Ditto, "Tulip" pattern, with either closed or open porcelain dial, 8 in. dia., and thermometer 3 15	0
30.	Ditto, "Empress" pattern, with closed or open porcelain dial and thermometer:—5 in. dia., 60/-; 6 in. dia., 82/-; 8 in. dia 5 12	0
31.	Ditto, "Side Column" pattern, with either closed or open porcelain dial, 8 in. dia., and thermometer 6 15	. 0
32.	Ditto, "Cornucopia" pattern, with first quality movement, best ornamental engraved silvered-metal dial, 8 in. dia., and thermometer 9 16	0
33.	Ditto, "Carlton" pattern, as No. 32 10 12	0

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34.	INLAID SOLID MAHOGANY PENDANT FRAME HALL ANEROID, "St. Martin" pattern, with either closed or open porcelain dial, and thermometer:—5 in. dia., 60/-; 8 in. dia	£4	10	0
	EXTRAS TO PENDANT-FRAME ANEROIDS:-	<u>.</u> 2		
35.	First quality movement	£0	6	6
36.	Compensation for temperature (to first quality only)	0	5	0
37.	Open dial (visible works)	0	3	.0
38.	Silvered metal dial and thermometer scale, in lieu of porcelain:—5 in., 8/-; 6 in., 13/-; 8 in.	0	17	0
39.	Ditto, best engraved with ornamental centre:— 5 in., 15/-; 6 in., 21/-; 8 in	1	8	0
	ROUND-FRAME HALL ANEROIDS	S.		
	Made in a great variety of patterns; new designs stantly added:—	are	bei	ing
44.	CARVED OAK ROUND-FRAME HALL ANEROID, "Cable" pattern, with closed			
1	porcelain dial:—5 in. dia., 18/-; 6 in. dia., 22/-; 8 in. dia	£1	8	0
45.	Ditto, of better make:—5 in. dia., 24/-; 6 in. dia., 29/-; 8 in. dia	1	17	0
46.	Ditto, of best finish, with first quality movement, silvered-metal dial, and thermometer:—5 in. dia., 40/-; 6 in. dia., 50/-; 8 in. dia	3	3	, O





47.	MOULDED OAK ROUND-FRAME HALL ANEROID, with closed porcelain dial:—5 in. dia., 19/-; 6 in. dia., 23/-; 8 in. dia	£1	9	0
48.	CARVED OAK ROUND-FRAME HALL ANEROID, "Star" pattern, with closed porcelain dial:—5 in. dia., 19/-; 6 in. dia., 23/-; 8 in. dia	. 1	9	0
49.	Ditto, "Half-circle" pattern with porcelain dial:—5 in. dia., 23/-; 6 in. dia., 29/-; 8 in. dia	1	16	0





50	CARVED OAK ROUND-FRAME ANEROID, "Greek edge" pattern,			
50.	with porcelain dial, 5 in. dia., 26/-; 6 in. dia., 32/-: 8 in. dia	£2	0	0
51.	Ditto, "Laurel and Berry" pattern, with porcelain dial, 5 in. dia., 33/-; 6 in. dia., 40/-; 8 in. dia	2	10	0
52.	Ditto, "Oak Leaf and Acorn" pattern, with porcelain dial, 5 in. dia., 38/-; 6 in. dia., 45/-; 8 in. dia	2	16	0



53.	CARVED OAK ROUND-FRAME ANEROID, "Ivy" pattern, of best finish, first quality movement compensated for temperature, silvered-	1		
	metal dial best engraved, and thermometer:—5 in. dia., 75/-; 6 in. dia., 80/-; 8 in. dia	£4	10	0
57.	BRACKET FRAME HALL ANEROID, "Queen Anne" pattern, with porcelain dial, 5 in. dia., 75/-; 6 in. dia	4	4	0
58.	STAND FRAME HALL OR CHIMNEY-PIECE ANEROID, "Drumhead" pattern, with porcelain dial, 5 in. dia	1	9	0
59.	Ditto, "Italian" pattern, with thermometer, 5 in. porcelain dial	2	7	0

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60.	STAND FRAME HALL OR CHIMNEY-PIECE ANEROID, "Arch top" pattern, 5 in. porcelain dial (no thermometer)	£2	15	0
	EXTRAS TO ROUND-FRAME, BRACKET, AND STAND-FRAME A	NEROI	DS:	
63.	First quality movement	£0	6	6
64.	Compensation for Temperature (to first quality only)	0	5	0
65.	Open Dial (visible works)	0	3	0
	Curved Thermometer		3	-
67.	Silvered-Metal Dial, 5 in., 6/6; 6 in., 11/-; 8 in	- 0	14	0 ~
68.	Ditto, best engraved, with ornamental centre, 5 in., 14/-; 6 in., 19/-; 8 in.	1	5	0

HALL BAROMETERS OF CHEAPER MAKE.



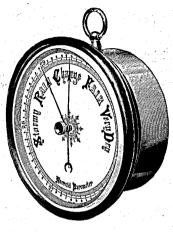


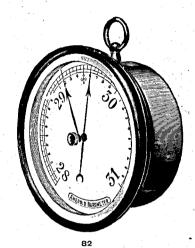
72

- 71. PENDANT FRAME HALL ANEROID of cheaper make, brown or black wood, carved and polished, open enamel dial, with opal scale thermometer, in several patterns, 3\frac{3}{4} in., 21/-; 4\frac{1}{2} in. \therefore £1 8 0
- 72. ROUND FRAME HALL ANEROID as above, with open enamel dial, in several patterns, $3\frac{3}{4}$ in., 13/-; 5 in. ... 1 2 0



BRASS CASE ANEROIDS.

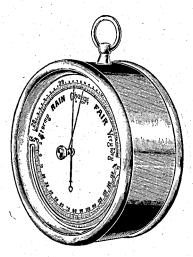


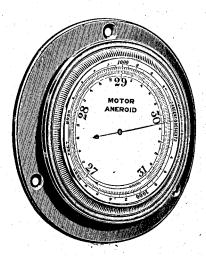


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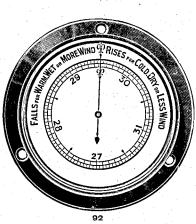
73.	BRASS CASE ANEROID, with closed porcelain dial, 5 in., 20/-; 6 in.	£1	8	0
74.	Ditto, with open porcelain or closed silvered-metal dial, 5 in., 28/-; 6 in.	1.	17	0
75.	Ditto, with open silvered-metal dial, 5 in., 33/-; 6 in	2	3	. 0
	EXTRAS.			•
76.	First quality movement	0	6	6
77.	Compensation for temperature (to first quality only)	. 0	5	0
7 8.	Extended scale to 22 in., and weather words arranged for an altitude of 6,400 feet:—		•	
4.	To 5 in. Aneroid with open or closed porcelain dial	0	5	0
	To 6 in. ditto	. 0	. 7	0
1	To 5 in. Aneroid with open or closed silvered-metal dial	. 0	9	0
	To 6 in. ditto	0	12	0
79.	Additional Hand fitted to any Aneroid intended for use at a high altitude, to show the corresponding pressure at sea level	0	5	0
80.	Curved Thermometer	0	3	0
81.	Best Morocco case, to 5 in. Aneroid, 5/6; to 6 in. Aneroid	0	7	6
82.	BRASS CASE ANEROID, graduated from 28 in. to 31 in. only, giving an open scale on which very small movements are easily perceptible. Good quality movement, enamel dial, figures and graduations very distinct (no weather words), in case, 5 in., 28/-; 6 in.	1	17	0
83.	Ditto, of better quality, with movement compensated for temperature, and open silvered-metal dial, 5 in., 42/-; 6 in	2	14	0

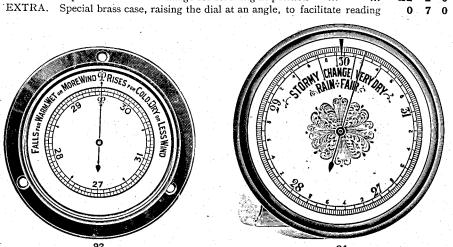
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84. BRASS CASE ANEROID, cylindrical, 5 in. dia., with first quality movement, compensated, and hand-engraved silvered-metal dial, in snap morocco case		65 g1			
85. Ditto, with curved thermometer	84.	ment, compensated, and hand-engraved silvered-metal dial, in snap			
 86. "UNIVERSAL" ANEROID for Agriculturists and others, with 5 in. porcelain dial and reliable movement; in brass case 1 0 0 87. "LIFE-BUOY" ANEROID, similar to the above, but intended for marine use 1 0 0 TRAVELLING ANEROIDS, ETC. 91. MOTOR ANEROID, with revolving altitude scale, showing 2,000 ft. ascent in black, and 2,000 ft. descent in red. The movement is strong and of good quality; the dial of silvered-metal, and the case 			£2	12	- 0
 86. "UNIVERSAL" ANEROID for Agriculturists and others, with 5 in. porcelain dial and reliable movement; in brass case 1 0 0 87. "LIFE-BUOY" ANEROID, similar to the above, but intended for marine use 1 0 0 TRAVELLING ANEROIDS, ETC. 91. MOTOR ANEROID, with revolving altitude scale, showing 2,000 ft. ascent in black, and 2,000 ft. descent in red. The movement is strong and of good quality; the dial of silvered-metal, and the case 	85.	Ditto, with curved thermometer	2	18	n
porcelain dial and reliable movement, in brass case 1 0 0 **IFE-BUOY" ANEROID, similar to the above, but intended for marine use 1 0 0 TRAVELLING ANEROIDS, ETC. 91. MOTOR ANEROID, with revolving altitude scale, showing 2,000 ft. ascent in black, and 2,000 ft. descent in red. The movement is strong and of good quality; the dial of silvered-metal, and the case	86	"INIVERSAL" ANEROID for Agriculturists and others with " in			
TRAVELLING ANEROIDS, ETC. 91. MOTOR ANEROID, with revolving altitude scale, showing 2,000 ft. ascent in black, and 2,000 ft. descent in red. The movement is strong and of good quality; the dial of silvered-metal, and the case		porcelain dial and reliable movement, in brass case	1	0	0
TRAVELLING ANEROIDS, ETC. 91. MOTOR ANEROID, with revolving altitude scale, showing 2,000 ft. ascent in black, and 2,000 ft. descent in red. The movement is strong and of good quality; the dial of silvered-metal, and the case	87.	"LIFE-BUOY" ANEROID, similar to the above, but intended for marine			
91. MOTOR ANEROID, with revolving altitude scale, showing 2,000 ft. ascent in black, and 2,000 ft. descent in red. The movement is strong and of good quality; the dial of silvered-metal, and the case		1100	1	0	0
ascent in black, and 2,000 ft. descent in red. The movement is strong and of good quality; the dial of silvered-metal, and the case		TRAVELLING ANEROIDS, ETC.			
ascent in black, and 2,000 ft. descent in red. The movement is strong and of good quality; the dial of silvered-metal, and the case	91.	MOTOR ANEROID, with revolving altitude scale, showing 2,000 ft			
of polished brass with flange for screwing in position £2 2 0		ascent in black, and 2,000 ft. descent in red. The movement is strong and of good quality; the dial of silvered-metal, and the case			
		of polished brass with flange for screwing in position	£2	2	0

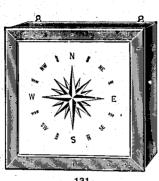




92. YACHT ANEROID, with 2½ in. engraved metal dial and weather words.

The marking index is attached to a milled ring and is easily and quickly set. Dia. of flange, 3¾ in.

£2 2 0

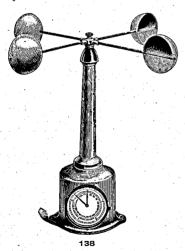


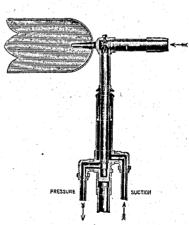


131. WIND DIRECTION INDICATOR, suitable for clubs, hotels, etc. The set consists of a Vane, an Indicator, and a Contact Push. The vane is mounted on the roof or other exposed position; it should be "earthed" by a $\frac{3}{16}$ in. galvanised iron wire as a protection from lightning. The indicator is fitted on the wall of the room or entrance hall, and the push is placed under the indicator and connected therewith. Upon pressing the button the indicator immediately shows from which direction the wind is blowing. Vane, indicator complete with lamps, and contact push, per set (fixing extra) ... £9 10 0

134. WIND DIRECTION RECORDER, actuated by a vane 4 ft. 6 in. long, carried upon ball bearings. The chart drum is 5 in. dia., 4½ in. high, and makes one revolution per 24 hours. The apparatus consists of a vane, 20 ft. of ½ in. dia. steel tube spindle, recorder, pen, bottle of ink, and 400 charts. The instrument has a close-fitting mahogany cover with glass front 25 0 0

135. WIND DIRECTION RECORDER, as above, combined with pressure tube recorder No. 147, by which means there is obtained on the same chart and at the same hours a complete record of both direction and intensity 50 0 0





Head of Dine's Anemometer.

138. ROBINSON'S ANEMOMETER, with 3 in. cups, reading to 500 miles, zero setting £7 5 0

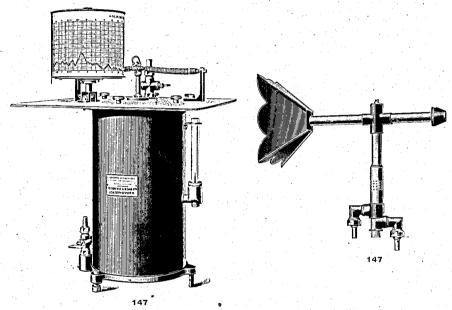
139. ROBINSON'S RECORDING ANEMOMETER, in japanned metal case, range of chart 25 miles, recording 8 days, enamelled dial registering 500 miles, outer circle divided to 5 miles and sub-divided to 10 ths, zero setting 26 10 0

Kew Pattern Recording Anemometers of large size to order.

T. COOKE & SONS, LTD

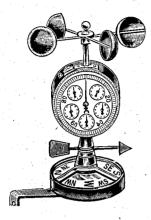
- 140. BECKLEY'S IMPROVED ANEMOMETER. This is a simple form of Robinson's Anemometer; the index portion consists of two graduated circles divided into $\frac{1}{10}$ ths and $\frac{1}{100}$ ths. A fixed index at the top marks miles and $\frac{1}{10}$ ths on the inner dial, and a moveable index indicates every 5 miles on the outer dial ... £5 15 0
- by the Meteorological Office as their standard instrument. It consists of two parts, the head, which is exposed to the wind, and the recording apparatus, which is set up at any convenient place, not necessarily near to the head. The two parts are connected by two flexible metal tubes, ½ in. internal dia., two 50 ft. lengths of which are included in the price 50 0 0
- 144. Charts can be supplied printed either English or metric, at per 400, sufficient for one year 2 10 0

An illustrated description of the above instrument will be supplied free on request,



- 147. RECORDING PRESSURE TUBE ANEMOMETER of simpler and cheaper form than No. 143. The principle is the same as the Dine's Instrument, in which the pressure and suction effects of the wind acting upon a float give a true record of its action. The two tubes are necessary to eliminate casual alterations of pressure in the room where the recorder is placed. The drum is 5 in. dia,, $4\frac{1}{2}$ in. high, and makes one revolution in 24 hours. The clock requires winding only once per week. The apparatus consists of a head and vane, recorder with glass cover, bottle of liquid (for float chamber), pen, bottle of recording ink, and 400 charts £28 0 0

- 151. LIND'S ANEMOMETER, shows the force of the wind by the height to which it raises water in one arm of a U-shaped tube, alongside which a scale is fixed. A vane keeps the open end of the tube facing the proper direction ... 2 12 0





152. PORTABLE ANEMOMETER, with wind vane and luminous compass for the use of airmen and others. Can be easily fixed in any position and gives the direction and force of the wind. Packed in a mahogany box, 7 in. × 5 in. × 5 in.

£7 0 0

BIRAM'S ANEMOMETER, for registering the velocity of air-currents in mines, sewers, furnaces, etc., with disconnector and zero setting attachment; packed in a square leather case:-

155.	0 m.	dia., reac	ling t	0 100,000	‡t., 4	dials	•••	•••		•	£4	5	0
156.	4 in.		, ,	100,000	4,, 4	,,	•••	• • •				1.1	
157.	3 in.	**	,,,,,	1,000	,, 2	,,,		•••	•••		3	15	.0





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159. BIRAM'S ANEMOMETER, 2 in. dia., reading to 1,000 ft., two dials, special watch form, with disconnector ••• •••

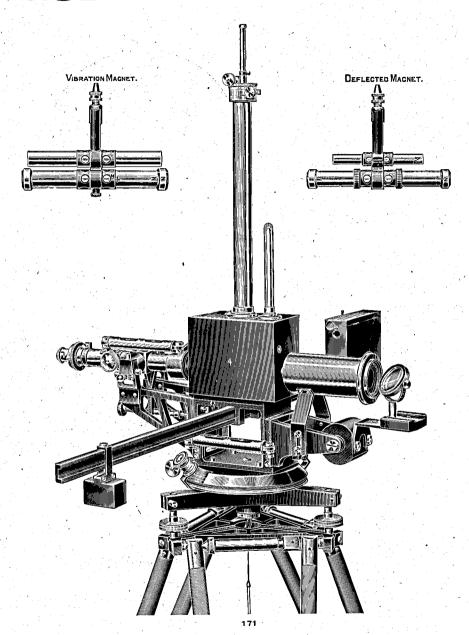
161. HIGH SPEED ANEMOMETER, for ascertaining the velocity of very strong currents and capable of registering up to 10,000 ft. per minute; 4½ in. dia., reading to 200,000 ft., with disconnector and zero setting attachment. Complete in case 6 10 0

165. PORTABLE AIR METER, with 6 dials, reading to 10,000,000 ft., with disconnector and zero setting attachment ... 4 0 0

166. Ditto, with 4 dials, reading to 100,000 ft.

All Anemometers are carefully tested at the time of manufacture in air-currents of known velocity, and a chart of corrections is supplied with each. Dials can be graduated in metres, in lieu of feet, without extra charge.

T. COOKE & SONS, LTD . DE



THE: UNIFILAR MAGNETOMETER, which has been adopted by the India Office as the Standard, is based on the Kew pattern instrument, but modified and improved in several important details.

The instrument generally consists of a graduated horizontal circle supported on three levelling foot-screws. Fixed to the cover of the circle is a light metal box carrying on one end the Y brackets of the telescope, and on the other a counterpoise to which is fixed a removable bracket carrying an adjustable mirror for illuminating the scales in the telescope and

magnet, the mirror being also interchangeable with a lamp. The magnet box and torsion tube are fixed centrally above the instrument. The deflection bar is made channel-section of extremely hard metal, thus being light and stiff.

The telescope is of 8 in. focal length, fitted with high and low power eye-pieces, striding level, and a longitudinal level on the top; a glass diaphragm is placed in the focus of the telescope, which, instead of having the usual cross webs, has two scales engraved on it, one a long horizontal scale of 100 divisions, and the other a short vertical scale of 40.

Two magnets are supplied, viz., the long or vibration magnet, and the short or deflected magnet. In the illustration the vibration magnet is shown with the inertia bar in its sheath. The N. end contains the collimator lens, whilst the S. end carries a piece of optical glass with a horizontal and vertical line engraved on it.

The deflected magnet which takes the place of the reflector magnet in the Kew instrument is fixed parallel to the collimator tube which carries a similar lens and engraved piece of glass as the vibration magnet.

The magnets are suspended by means of a thin ribbon of phosphor-bronze instead of the ordinary silk fibre, the ribbon being held both at the torsion tube head and magnet by improved clip chucks. With this suspension the torsion is constant. Thermometers are fitted to both magnet boxes, and two spare reels of ribbon are supplied.

A finely divided plummet is provided, which is read by a collimating lens in front of the telescope object glass.

The tripod is rigid, closing up into small space, and together with the deflection bar is carried in a canvas and leather-bound case.

The instrument is packed complete in a mahogany case with shoulder strap.

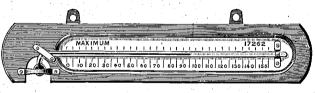
- 171. MAGNETOMETER, as above (Captain Fraser's pattern), fitted with vertical circle for taking azimuths, as made for the Indian, United States, and Canadian Governments £112 10 0
 - 172. Ditto, Kew pattern 100 0 0

 If without vertical circle a reduction of £6 will be made.
 - 173. Kew Certificate to either pattern, extra 8 0 0

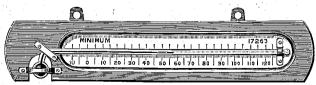


181

181. COMPARATIVE STANDARD THERMOMETER, 15 in. long, with engine-divided stem and raised metal scale, graduated o° to 212° F, or -20° to 100° C.; fitted in a morocco case, with Kew certificate $\cancel{£2}$ 15 0



182

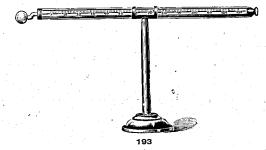


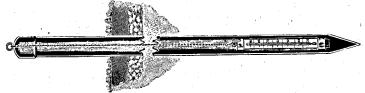
183

T. COOKE & SONS, LTD . DE

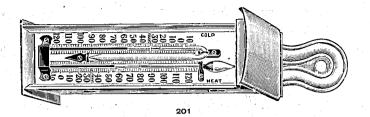
182.	STANDARD SELF-REGISTERING THERMON mum, with opal glass scale, and engine	. 10	in.	12 in.		
	superior quality, in oak frame		£1 3	0 8	£1	3 0
183.	Ditto, minimum	****	1 3	0	1 8	3 0
184.	Kew Certificate to either pattern, extra	··· ···		••	0 5	0
	6 L 0 20 W W W W W W W W W W W W W W W W W	0 peo 150 lán 176 ph 194	100		F.	

187. STANDARD SOLAR RADIATION MAXIMUM THERMOMETER, divided and figured on the stem, with black bulb in vacuo, and glass shield to protect the graduations and figures					
188.	Kew Certificate, extra	•••	0	10	0
189.	STANDARD SOLAR RADIATION MAXIMUM THERMOMET divided and figured on the stem, with black bulb and glass shi for registering the temperature of the Solar rays in the open air	ield,	. 1	7	0
190.	Kew Certificate, extra	•••	. 0	10	0
191.	Stand, 4 ft. high. with fastenings for one insulated thermometer	•••	0	10	6
192.	Ditto, for two thermometers		0	14	0

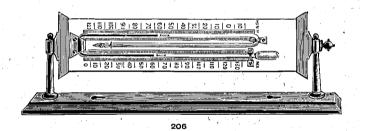




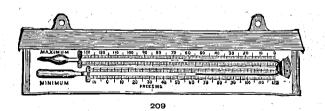
195. EARTH TEMPERATURE THERMOMETER, Symon's pattern, with engine-divided tube and boxwood scale; it is attached by a chain to a copper cap which fits the top of a pointed pipe, driven into the ground. For indicating temperatures at various depths below the						in to o the				
		viz: 1 ft.							£1	10
196.	Ditto, 2 ft.	•••	• • • •		·	•••	•••	•••	1	14
197	Ditto. 4 ft.								2	0



201. SIX'S SELF-REGISTERING MAXIMUM	8 in	10 in.	12 in.	14 in.
AND MINIMUM THERMOMETER, with opal glass				
scale, enamelled tube, in open-back white-japanned tin		· · · · ·		
case, best make, with magnet	15/-	18/6	22/-	26/-
203. Ditto, zinc scale, in white-japanned tin case,				
with magnet	10/-	13/-	16/-	20/-
204. Spare Magnets, grooved, for Six's thermome	eter		each	1/-

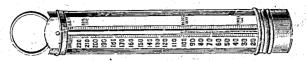


206. SIX'S SELF	-REGISTER	ING MA	XIMUM	8 in.	10 in.	12 in.	14 in.
AND MINIMUM THE	RMOMETE	R, with of	pal glass -				
scale, mounted on oak	back with	revolving	bronzed			*	
brackets for window			•	28/-	33/-	38/-	44/-



209. DIMENUON SELF-REGISTERING MAXI- MUM AND MINIMUM THERMOMETER, with opal	8 in.	10 in.	12 in
glass scale in white-japanned tin case, best make	17/-	21/-	25/-
210. Ditto, zinc scale in white-japanned tin case	10/-	14/-	18/-

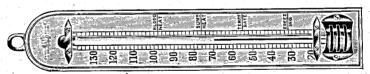
T. COOKE & SONS, LTD .

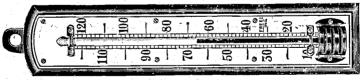




21:

212.	BREWER'S THERMOMETER, with silvered metal scale graduated to boiling point, in black japanned tin case, 8 in., 2/6; 10 in., 4/-; 12 in., 5/6; 14 in	£0	7	0
213.	Ditto, in copper case, 8 in., 3/6; 10 in., 5/-; 12 in., 6/6; 14 in	. 0	8	6
214.	Ditto, in stout copper scooped case, 10 in., 9/-; 12 in., 12/-; 14 in	0	15	0
215.	SUGAR BOILER'S THERMOMETER, with scale graduated to 400°, in brass case with sides turned up, 10 in., 7/6; 12 in., 10/-; 14 in.	0	12	6
216.	MINIMUM THERMOMETER, self-registering, with zinc scale, engine-divided, on boxwood back, 8 in., 4/-; 10 in.,	· <u>·</u> · · · · · · · · · · · · · · · · ·	5	6
217.	Ditto, with solid zinc scale, non-rusting, raised figures and divisions, in metal frame, 12 in	0	2	6
218.	Ditto, filled red spirit on boxwood back, 8 in., 1/9 to 3/6; 10 in., 2/6 to	0	5	0
219.	WINDOW THERMOMETER, with porcelain scale, tube filled with black or red spirit, revolving in metal frame, with slotted holes	1		
	for fixing	. 0	7	6





					5	
	HOUSEHOLD THERMOMETER, with boxwood scale, mercury or spirit, 8 in	•••	-1/6	and up	war	ds
223.	Ditto, with celluloid scale on oak or boxwood back, 8 in.	•••	3/6	· • •	** :	
224.	Ditto, with porcelain scale, graduated both F & C, 8 in., 4/-	; 10 ir	ı. 	£0	5	0
225.	Ditto, with porcelain scale, magnifying tube, best make 8 in., 9/-; 10 in., 12/-; 12 in., 15/-; 14 in	and f	inish, 	0	18	0

226.	HOUSEHOLD THERMOMETER, with porcelain scale, graduations and figures very distinct, suitable for Public Buildings, etc., from	£0 10	0
227.	Ditto, with metal scale, on oak back, 8 in., 4/-; 10 in	0 5	0
228.	Ditto, with metal scale, on boxwood or ebonised back, 8 in	0 5	0
233.	IVORY TUSK THERMOMETER • 21/- and upwards to	2 10	0
234.	SILVER-MOUNTED THERMOMETER, to hang or stand 12/6 and upwards to	1 15	0
235.	ALARM THERMOMETER, that may be set for any temperature, either high or low, which if attained, causes an electric bell to ring continuously until stopped. Particularly recommended for ship's holds, cold storage, hot-houses, etc. In three patterns: maximum, 30/-; minimum, 30/-; combined maximum and minimum	2 0	0
236.	Ditto, with bell, battery, 100 feet of wire, and indicating board with 4 discs, registering both heat and cold	4 15	0



238



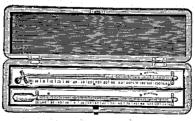
238

238. BATH THERMOMETER, all porcelain, 5/-; japanned tin care, with silvered-metal scale, 2/6 to 4/6; japanned tin case, with porceiain scale, 5/- and 6/-; whitewood £0



209/240

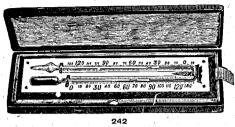
239. POCKET THERMOMETER, with boxwood frame of oval section, in morocco case, 4 in., 9/6; 5 in. 0 10 **240.** Ditto, with ivory frame, 3 in., 15/-: 4 in., 18/-; 5 in. 0



241. TRAVELLING SET, comprising a pair of maximum and minimum self-registering thermometers, divided on the stem, with German silver scales, in morocco case, 6 in., 30/-; 8 in. ...

£1 15 0

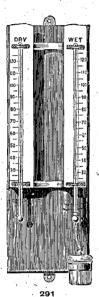
· T. COOKE & SONS, LTD

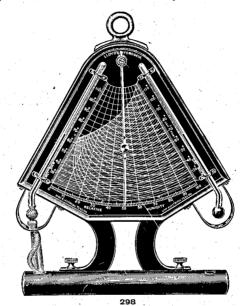


,	0 10 26 30 40 50, 80 70 80 90 103 116 120 155			
			٠.	
	242			
242.	POCKET DIMENUON SELF-REGISTERING THER-			
242.	MOMETER, with ivory scale in morocco case, 5 in., 22/-;			
	6 in., 25/-; 7 in	£1	10	0
244.	POCKET THERMOMETER, with ivory scale and German			
	silver mounts in snap morocco case, 4 in., 9/-; 5 in., 11/6;		14	Λ.
	6 in	Ū	17	•
	27 20 00 00 00 00 00 00 00 00 00 00 00 00		* •	
		 -		
	245			
245.	The communication of the second control in			
240.	polished mahogany case with slide lid, 4 in., 3/-; 5 in.,			_
	4/-; 6 in	£0	5	.0
246.	REFRIGERATING THERMOMETER, 12 in., in turned box-	0	3	6
	wood stick, filled red spirit	. •		•
247.	Ditto, 8 in., in brass pipe, with silvered metal scale for brine tanks	0	17	0
251.	DAIRY THERMOMETER, with insulated paper scale, in			- 1
201.	card case, 8 in	0	6	6
252.	Ditto, all porcelain, 12 in	0	5	0
253.	Ditto, in square wood frame, with handle, 10 in	0	7	6
254.	INCUBATOR THERMOMETER, with metal scale, flanged	-		
	edges, 4 in	0	2	6
255.	Ditto, all glass, engraved tube, for drawer, 8 in	0	3	6
258.	HOT-BED THERMOMETER, 12 in., in turned oak case		_	^
100	with brass point	0	5	U
259.	RAIL TEMPERATURE THERMOMETER, 5 in., in heavy copper case, graduated either F or C, and fitted in wood			
44.4	box. Indispensable to plate-layers for accurately fixing			
	the width of the gap when laying long rails	. 0	7	6
. (CHEMICAL THERMOMETERS, with engine-divided tubes, eng	raved	lster	ns,
	quality, filled mercury or spirit, in turned mahogany boxes:-	co	7	^
263. 264.	0 0 -	£0 0	7 8	3
264. 265.	12 in., from 120° to 300° F. ,, ,,	0	9	6
266.	12 in., from 120° to 400° F. ,, ,,		11	6
267.	0 / 0 -	0		0
268. 269.		· ŏ	16	Õ
	Ditto of cheaper quality:—			
271.		0	-	6
272.	12 in from 120° to 300° F	0	6 7	6 6
273.	0 0	0	. 8	6
274.		_	_	0
276.	, Armoured Cases for chemical thermometers, any length	•		-

90

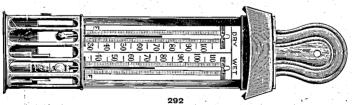
	6 100 105	1 110			
	282	2 min.	1 min.	½ min.	
281.	CLINICAL THERMOMETER, with plain tube, in nickel case	3/6	4/-	4/6	, .
282.	Ditto, with lens front	4/-	. 5/-	6/-	
	he above are provided with our own certificates, which we guarant tenth degree of a corresponding certificate issued by Kew Ol	ee are wit scrvatory	hin on	ie-	
283.	Hicks' Patent Lens Front, with his own certificate	6/-	8/-	8/-	
284.	Hicks' "Facilis," easy to shake down, with lens front	6/-	6/-	6/-	3
286.	Veterinary Thermometer, with normal temperature for various marked on stem, 4 in., 4/-; 5 in	animals	£0	5 6	
	A few clinicals of different patterns, with Kew certificates, are	kept in sto	ock.		





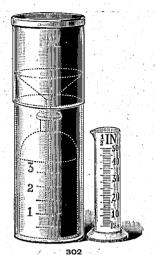
291. MASON'S WET & DRY BULB HYGROMETER, with opal scales and engine-divided tubes, on oak board, small, 35/-; medium, 45/-; large

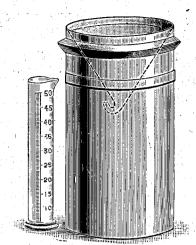
£2 15 0



292.	ADMIRALTY PATTERN HYGROMETER, zinc, well protected	£1	1	0
293.	Kew Certificates (2), for Hygrometer, extra	0	8	0
297.	THE HYGRODEIK is a condensed graphic presentation of all the facts			
	given in the hygrometer tables. The lines on the chart show at a			
	glance the relative humidity, dew-point, absolute amount of water			
	present and weight of water in each cubic foot of air. Made in two ranges: 20° to 120° F., and 80° to 180° F., and mounted in japanned			
	iron frame with base to stand	2	2	0
298.	Ditto, mounted on polished brass frame, in two patterns, to stand or hang	3	0	0
200.	Ditto, mounted on posterior of the patterns, to stand of hang			. •

T. COOKE & SONS, LTD





300. SYMON'S RAIN GAUGE (British Association pattern), with funnel 5 in. dia and graduated glass measure

 303

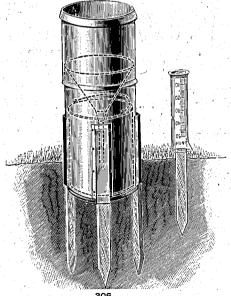
Copper with brass rim

£1 5 0

£0 15 0

2 15 0 — 1 12 0 —

2 0 0 1 7 0





306. SNOWDON RAIN GAUGE, copper case with high brass rim and stakes for holding in position, 5 in. funnel, metal receiver, and glass measure...

307. Ditto, in galvanized iron, with brass rim

1 12 0

	308. HOWARD'S RAIN GAUGE, consisting of a metal	Copper with	Japanned tin
	funnel, 5 in. dia., with straight tube, flint glass bottle and	brass rim	with brass rim
	graduated glass measure	£0 16 0	£0 12 0
,	309. HOWARD'S PEDESTAL RAIN GAUGE, with		
	graduated tube at the side, showing the amount of rainfall		
	without using a measure; receiving surface, 12 in. dia	4 8 0	3 0 0
	310. GLAISHER'S TROPICAL RAIN GAUGE, having	Barting of	
	extra large container fitted with tap, and graduated measure . ;	4 10 0	— —
	311. BRADFORD RAIN GAUGE, holding about 27 in.		
	of rainfall, for use in very rainy localities, or in situations which		
	can only be visited occasionally, 5 in. dia., with graduated		
	dipping rod, and large glass measure to hold 12 in. of fall	3 15 0	
	312. Measuring Glass for rain gauge, 5 in., 2/6; 8 in.		0 4 0
	313. Ditto, "Camden" pattern, 5 in., 3/6; 8 in.		0 5 0
	314. Kew Certificate to any ordinary rain gauge, 5/-;		



to any measuring glass, 4/-

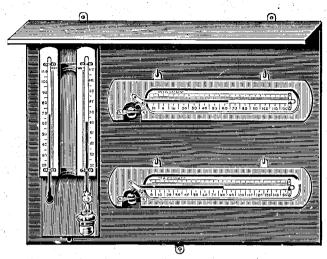


316. REGISTERING RAIN GAUGE, zero setting, showing amount of rainfall, from $\frac{1}{100}$ th in. to 12 in., on a dial, in square japanned metal case, size 10 in. ×8 in. £4 10 317. Ditto, in copper case, same size • • • • • • • • 1... 320. RECORDING RAIN GAUGE of new type, in which the pen is actuated by a float, and the height of the chart represents $\frac{1}{2}$ in of rainfall. When this amount has been registered the pen automatically falls to the bottom of the chart and then commences to rise again. The clock makes a complete revolution in 24 hours, but requires winding only once a week. It is desirable, but not imperative, to fix a new chart daily. Two-years'-supply of £9 10 0 charts is included with each instrument 321. Extra Charts, per 100 327. RECORDING RAIN GAUGE, runs for a week, showing rainfall in inches and $\frac{1}{100}$ ths at the exact time at which it occurred. With 8 in. funnel, and including charts for 14 10 one year 328. Kew Certificate, extra 1 10 0 0 329. Extra Charts, per year's supply 330. RAINFALL CHARTS, per dozen ... 332. METEOROLOGICAL SET, consisting of maximum and minimum thermometers and Mason's hygrometer, all divided on the stems and fitted with porcelain scales.

screen, with adjustable front to hold above instruments when hung upon a wall or post. Also a Symon's 5 in. copper rain guage with graduated glass measure, a pad of charts for noting observations and a book "Hints to Meteorological observers" ... £7 5 0 0 18

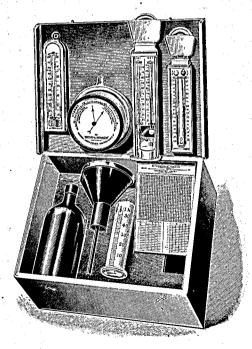
333. Kew Certificates (4) to thermometers and hygrometer only, extra

& SONS, T: COOKE



334

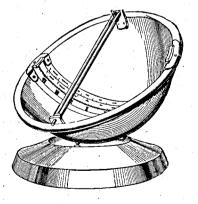
334.	METEOROLOGICAL SET minimum thermometers a	, consis	ting of someter, mo	tandard rounted on	naximum oak boai	and d	£6	0	0
335.	Kew Certificates (4), extra	•••	•••	•••		•••	0	18	0
336.	METEOROLOGICAL SET.	as No.	334, but s	smaller		•	5	0	0



337. METEOROLOGICAL SET, consisting of 5 in aneroid barometer, Mason's hygrometer, Six's thermometer, Nason's hygrometer, 51x sthermometer, 5 in. japanned Howard's rain gauge with glass measure, and record calendar for 12 months. Packed in a stained deal case ... £3 0 0

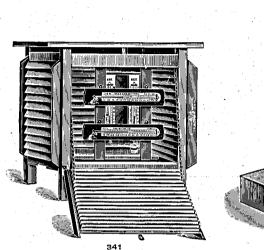
338. Meteorological Pad, with charts sufficient for one year 0 1 3

339. 12 Large Meteorological rts, in case ... 0 3 0 Charts, in case



337

365



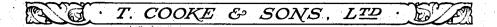


341.	and painted white, with padlock, complete with hand-painted opal	•		11.
	scale maximum and minimum thermometers, and Mason's hygrometer	£8		0
342.	SCREEN, as above, without instruments	4	0	0
351.	SUNSHINE RECORDER, Campbell-Stokes pattern, universal type, with adjustment for any latitude	16	0	0.
352.	Ditto, but without adjustment, for use at any fixed latitude	12	0	0
353.	Cards for above, printed with hour scale; a year's supply consisting of 150 short, curved, for winter; 150 long, curved, for summer; 100			
•	straight for equinoxes	2	5	0
354.	Glass Gauge, etched with hour lines and sub-divisions; facilitates			1
	totalling the record	0	15	0
	UNSHINE RECORDER, Jordan pattern, of simple construction, adjusts le, registers the actinic effect of the Sun's rays upon a sensitised chart:—	ible f	or a	ny
355.	Twin Cylinder Type, records upon separate morning and afternoon charts	6	10	0
356.	Charts for do., ready sensitised, 100 days' supply	0	15	0
357.	Single Cylinder Type, records upon one chart only	3	10	0
358.	Charts for do., ready sensitised, 100 days' supply	0	7	0
359.	Register Forms, in pads lasting I year	0	2	0

SUN CLOCK AND SOLAR CHRONOMETER.

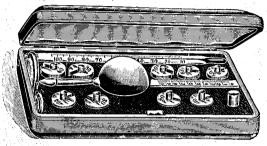
THE SUN CLOCK shows standard sun time to the minute whenever the sun shines between 6.30 a.m. and 5.30 p.m. It is provided with a table showing how many minutes it is fast or slow compared with standard mean-time (the time that a watch ought to show). It has no movable parts. The SOLAR CHRONOMETER shows standard mean time and has a moveable scale:

363.	SUN CLOCK, with 12 in. bowl in oxidised polished copper, platengraved scales, heavy plated fittings, latest type of adjust	er,	•	-	
	complete in every respect, for fixing either to a wall or level surfain any locality	ace	£5	5	0
364.	Ditto, but made to suit one definite locality	•••	4	0	0
365.	SOLAR CHRONOMETER, of the same size and finish as No. 363	•••	5	5	0
366.	Ditto, but made to suit one definite locality		4	0	. 0
367.	Plate glass cover (not indispensable) for either of the above	•••	0	18	.0



METAL HYDROMETERS.

371. SIKES' HYDROMETER, Excise pattern, boxwood proof and mixing rules and ivory-scale thermometer in mahogany case. Book of tables, instructions and trial jar £3 10 0



372

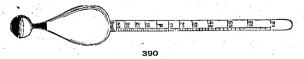
372.	SIKES' HYDROMETER, pocket size, with thermometer, weights and			
F 177	magnifier, in morocco case. Miniature book of tables £	3	15	0
373.	BEAUME'S HYDROMETER, gilt metal in tin case, for heavy liquids	1	0	0`
374.	Ditto, for light liquids	1	0	0
375.	TWADDLE'S HYDROMETER, gilt metal in tin case, Nos. 1, 2, and			
8:	3, each, 22/-; No. 4, 24/-; Nos. 5 and 6 each	1	- 6	0
376.	BARKTROMETER, gilt metal, in tin case	1	2	0
377.	LACTOMETER, gilt metal, round bulb, flat stem, in tin case	1	2	0
378.	BATES' SACCHAROMETER, with four poise weights and ther-	_;		
	mometer, in mahogany case	3	15	0



379

379.	SALINOMETER, gilt metal, in tin cas	se			•••	£0	7	6
380.	Ditto, scaled one side in 32nds, and our	ices per g	allon on tl	ne other	•••	0	8	6
381.	Salinometer Thermometer	•••	•••	•••	***	. 0	5	0
382.	Salinometer Pot, copper	••••	• •••	•••		: 0	6	6
383.	MARINE "LOAD LINE" HYDROM	ETER, (German sil	ver, in ti	n case	0	9	6
384.	Ditto, Board of Trade pattern		🖔			0	15	0
385.	"Load Line" Hydrometer Tables		•••		•••	0	1	0

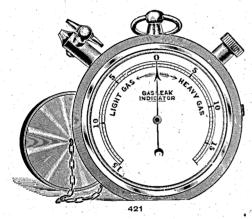
GLASS HYDROMETERS.



389.	SPIRIT HYDROMETER	snot poise,	paper sca	ue, – 40 to	o 70	prooi,				
	in case		*		•••	ໍ ຢ	03	4	0	
390.	Ditto, mercury poise, ivor	y scale		•••		•••	0	4	6	
391.	BEAUME'S HYDROME	TER. for liqu	ids heavie	er than wat	er rang	ge 0/50	0	4	0	

392. Ditto, for liquids lighter than water, range 10/50 0 5 0

394.	TWADDLE'S HYDROMETER, shot poise, paper scale, in case, Nos. I				
8 27	to 6 each	£0	3	0	
395.	Ditto, mercury poise, ivory scale ,,	0	4	0	,
396.	Ditto, set of 6, mercury poise, ivory scale, with thermometer, in		1. 1.		
	mahogany case	1	15	0	
397.	SACCHAROMETER, range 0/50 lbs., in case	0	4	6	
398.	Ditto, any ordinary range with 50° in the scale, say 1000/1050	. 0	8	0	
399.	SIKES' HYDROMETER, standard quality	0	12	6	
400.	Ditto, set of 5, 0/100 × 20°, in mahogany case	3	. 5	0	
405.	SALINOMETER, shot poise, in case	0	4	0	
406.	ACCUMULATOR HYDROMETER, shot poise, flat bulb, paper scale,				
•	range 1100/1250, in case, 6 in., 4/-; 9 in	0,	- 5	. 0.	
407.	PETROL HYDROMETER, in case	0.	. 3	6	
408.	BRINEOMETER, range 0/100°/c, in case	0	5	0	
409.	LACTOMETER, mercury poise, ivory scale, with milk scale on one				
	side and Sp. Gr. degrees on the other	0	4	. 0	





421. GAS LEAK INDICATOR, a highly sensitive instrument for instantly detecting the presence of gas. The maximum effect is attained within two or three minutes; on opening the valve in pure air, the hand will immediately return to zero £4 15 0

422. POCKET GAS PRESSURE GAUGE. This is a reliable instrument. The graduated circle is made to revolve so that any small deviation of the index hand from zero can be easily adjusted. In morocco case 2 12 0





425.	RICHARDS' STEAM INDICATOR, improved pattern, in teak with three springs and scales; suitable for speeds up to 150 rev				
*	tions per minute		£9	0	0
426.	M'INNES' Ditto, suitable for speeds up to 250 revolutions per min.	•••	9	10	0
	Extra spring and scale for either of above	•••	0	15	. 0
428.	Drum Spring		0	2	. 6
		•			

T. COOKE & SONS, LTD . DIE

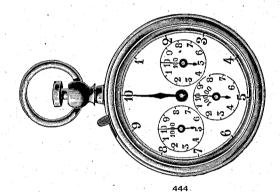
431.	SUPERFINE METALLIC PAPER, size $7\frac{1}{2}$ in. \times $3\frac{3}{4}$ in.,	for Ric	hards'			
	Indicator; packet of 240 sheets, 4/6; 360 sheets	•••	•••	£0	6	0
432.	Ditto, $6\frac{1}{2}$ in. $\times 3$ in., for M'Innes' Indicator; packet of 240	sheets	•••	0	4	6
433.	Best Italian Hemp Cord, large hank	•••	•••	0	2	6
434.	Wire Core Cord, 25 ft. hank			0	3	0.

Also Crosby Indicators for steam, gas, and oil engines; quotations given.

SPEED INDICATORS.

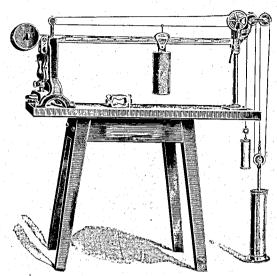
YOUNG'S SPEED INDICATOR gives at a glance any speed up to 10,000 revolutions per minute. It is made in two ranges:—

Por					
438.	Giving speeds of 100—500 and 400—2,000 revs. per minute	£4	8.	0	
439.	Giving speeds of 500-2,500 and 2,000-10,000 revs. per minute	6	5	0	
440.	Leather case for either of the above	. 0	6	0	
441.	REVOLUTION COUNTER, with three dials, registering rotations in either direction to 10,000, in nickel case with automatic set-back	0	18	0	
442.	Ditto, with four dials, registering to 100,000	1	1	^O	



443.	POCKET TALLY REGISTER or Number Counter, with three dials, registering from I to I,000, with automatic set-back	£0	18	0
444.	Ditto, with four dials, registering to 10,000	1	1	0
445.	THE COWEY SPEED INDICATOR for motor cycles has been specially designed for use on the road, and can be relied upon as invariably accurate under all conditions. The attached odometer clearly shows the total mileage run up to 10,000 miles, and then automatically sets itself at zero and starts again. Made to register from 5 to 40, or from 10 to 00 miles per hour	£5	5	0
T	THE ELLIOTT SPEEDOMETER for motor cars, is made in several patter	ns:-	<u>.</u>	
449.	SPEED INDICATOR, calibrated from 5 to 50 miles per hour, with cyclometer reading in miles and γ_0 ths to 9,999 miles, finished in brass or nickel, with fittings suitable for friction, live axle or gear drive	£9	10	0
450.	Ditto, calibrated from 5 to 40, 5 to 50, or 10 to 60 miles per hour, with cyclometer as above and additional trip hand reading in 1/2 ths of a mile to 100 miles	14	10	0
451.	STANDARD CYCLOMETER, reading to 9,999 miles with trip hand reading in 1/18ths of a mile up to 100 miles, and adjustable while travelling. Finished in brass or nickel with fittings for friction,			
	live axle, or gear drive	8	5	0

CEMENT TESTING APPARATUS.



461

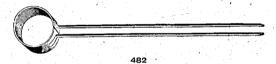
461.	CEMENT TESTING MACHINE for I in. briquettes, reading from o to 1,000 lbs., on ash top, with legs. All the parts are well finished and lacquered, with ball and socket motion clips	£22	17	0	
462.	Automatic Regulator, extra	6	16	0	
463.	CEMENT TESTING MACHINE, as above, but of cheaper finish, on ash top, without legs. Very suitable for Builders	18	15	0	
464.	Dr. MICHAELIS'S CEMENT TESTING MACHINE, to 1,000 lbs., with shot run, spring balance, two buckets, etc, The fittings are of polished gun-metal	23	5	0	
465.	Ebonised Table for above	3	15	0	
466.	Frame (only) of glass cover	2	5	0	1.
467.	STANDARD TESTING SIEVE, 10 in. dia., 20 or 30 mesh, with wood rim, for sand	0	8	0	
469.	Ditto, 7 in. dia., 76 mesh, with wood rim, for cement	0	8	0	
470.	Ditto, ,, 180 ,, ,,	0	19	0	
475.	STANDARD GUN-METAL MOULD for I in. briquette, in two parts held together by thumbscrews	0	19	0	
476.	Planished Iron Plate for use with above	0	1	0	
477.	SENSITIVE BALANCE for weighing residues	2	0	0	

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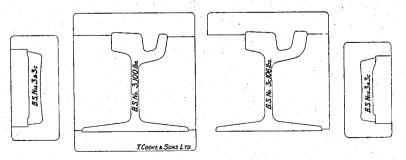


478.	VICAT NEEDLE APPARATUS for ascertaining the commencement	ent			_
	of hardening, time of setting, and correct consistency	•••	£.2	12	U
479.	Ditto, with dash-pot	•••	. 3	15	0
480.	B.S. WEIGHTED NEEDLE, for testing setting time	•••	0	19	0
401	STANCED AND BLOUNT'S SPECIFIC GRAVITY BOTTLE		0	8	0

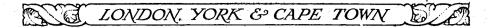


	and the control of th			
482.	LE CHATELIER EXPANSION GAUGE, with glass plates and weight	£0	3	0
483.	Millimeter Rule, 4 in., steel, for measuring expansion	0	. 1	6
484.	COPPER TANK for boiling Le Chatelier specimens, complete with thermometer	2	2	0
	British Standard Specification for Portland Cement (including instructions for testing) nett	0	6	0

STANDARD RAIL AND FISHPLATE TEMPLATES. Messrs. T. Cooke & Sons, Ltd., have been appointed by the Engineering Standards Committee, sole makers of Standard and Commercial Templates of British Standard-Section tramway rails, bull-head and flatbottom railway rails and fishplates. Messrs. Cooke have supplied to the National Physical Laboratory at Bushey, standard sets of templates, which have a guaranteed accuracy of $\tau_0^1\sigma_0^1$ th inch, and the N.P.L. is ready to compare commercial sets with these standards at a small charge, and if found accurate to issue a certificate to that effect. The commercial sets are made of nickel, and their accuracy is within τ_0^1 th in.



Tramway Rail and Fishplate Templates.



TRAMWAY RAIL AND FISHPLATE TEMPLATES. The set of Templates for each weight of straight and corresponding curved rail and its fishplates (Report No. 2*) comprises fourteen pieces.

			ight of Rail in				ъ.		
	No. of "B.S." Section		Straight	Curved			Price 1	per S	et :
491.	I and Ic.	•••	90	96	•••	·	£13 .	15	0
492.	2 ,, 2c.		95	IOI			13	15	0
493.	3 ,, 3c.	•••	100	106			13	15	0
494.	4 ,, 4c.		105	111			13	15	0
495.	5 ,, 5c.	•••	IIO	116	•••		13	15	0
EXTI	RAS. If made in steel	ı	•••				1	5	0
	Packed in a ma	hogany case	•••	•••			4	8	0
	National Physic	cal Laborato	ry certificate	to any set			0	10	0
	ecifications and Sect	ions of Brit	ish Standard	l Tramway	Rails an	d			
F	ishplates''	•••	• •••		net	t.	1	6	Q

BULL-HEAD RAILWAY RAIL TEMPLATES. The set of Templates for each weight of rail (Report No. 9†) comprises three pieces.

	Weight of Rail in I	bs, per yd.			Price	per S	Set
498	B. 100				£6	11	0
499	9. 95	•••		•••	6	11	0
85 Na 60 50	0. 90	· · · ·			- 6	11	0
50	1. 85	•••			. 6	11	0
50:		•••	•••	• • • •	6	11	0
50	5. 75	•••			. 6	. 5	0
500		•••	•••		6	5	0
50	7. 65	•••	•••		- 6	5	0
508		•••			6	5	0
					1.5		
ICOONE & SWIST EX	TRAS. If made i		•••	•••	0	15	0
Bull-Head Railway		n a mahogany		•••	1	1	0
Rail Templates.	National	Physical Lab	oratory certif	ficate to			
	any se	et		••	. 0	5	0
†"British Standard S	Specification and	Sections of	Bull-Head	Railway			
Rails''		•••		nett.	. 1	6	0
	and the second second	A CONTRACT OF					

FISHPLATE TEMPLATES FOR BULL-HEAD RAILWAY RAILS. The set of Templates of Fishplates for each weight of Rail (Report No. 47 \$) comprises two pieces.

	Weight of Rail in lbs.	Weight of Fishplat per pair	es in 1bs.	Price per S	et
) \$ 513.	100	$32\frac{1}{4}$	•••	£5 13	0
514.	95	$32\frac{1}{4}$		5.13	0
515.	90	$32\frac{1}{4}$	•••	5 13	0
/ કું કું () 516.	85	$32\frac{1}{4}$	•••	5 13	0
517.	80	$29\frac{3}{4}$		5 13	0
518.	75	26}	:	5 13	0
Fishplate Template 519.	70	$26\frac{1}{4}$	• • • • • • • • • • • • • • • • • • • •	5 13	0 ,
for Bull-Head Railway					-
Rail.		the second secon			

Fishplates for 65 lbs, and 60 lbs, per yd. Bull-Head Rails have not been standardized.

EXTRAS.	If made in steel				• • •	0	10	0
	Packed in a mahogany case		•••	•••		0	16	0
	National Physical Laboratory	y certificate	to any	set		. 0	4	6
	Standard Specification and Sect		l Fishpl	ates for	'B.S.'			٠.
Bull-H	ead and Flat-Bottom Railway	Rails''		•••	nett.	. 0	13	. 0

T. COOKE & SONS, LTD .

FLAT-BOTTOM RAILWAY RAIL TEMPLATES. The set of Templates for each weight of Rail (Report No. 111) comprises three pieces.

	Weight of Rail	Price					ht of Rail			ice		
	in lbs. per yd.	per Se	et '			in lb:	s, per yd,			Set	-	
524.	100	£7 10	0		535.		55		£6	18	0	
525.	95	7 10	0	1.1	536.		50		6	18	0	
526.	90	7 10	0		537.		45		6	18	0	
527.	8 5	7 10	0		538.		40 :		-6	18	0	
528.	8ŏ	7 10	0		539.		35		6	11	0	
529.	75	7 4	0		540.		30		6	11	0	
530.	70	7 4	0		541.		25		6	11	0	
531.	65	7 4	0		542.	100	20		6	11	0	
532.	60	7 4	0									
	If made in steel,	Nos For	1 40 522					r	n	15	n	
EXTRAS.					•••	•••	•••		ŏ	12	6	
	Ditto,					.***	• • • • • • • • • • • • • • • • • • • •		. 1	1	ň	
	Packed in a mah					•••	•••		7	19	ň	
•	Ditte		Nos.			•••	•••				-	
	National Physic	ial Labor	atory ce	ertificat	e to any	set			0	5	0	
t" British	Standard Specifi	cation ar	nd Secti	ions of	Flat-B	ottom	Railway					
Rails'		,,,					nett.		1	6	0	







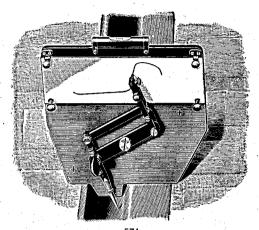
Flat-Bottom Railway Rail Templates.

Fishplate Templates for Flat-Bottom Railway Rails.

FISHPLATE TEMPLATES FOR FLAT-BOTTOM RAILWAY RAILS. The set of Templates of Fishplates for each weight of rail (Report No. $47\parallel$) comprises two pieces.

	Angle Fishplates Shallow Fishplate	s .	
	Weight of Rail in Weight in lbs. per lbs. per pair (4-bolt) Price per Set Weight in lbs. per pair (4-bolt) Pr	ice pe	r Set
547.		5 12	6
548.		5 12	6
549.		5 12	6
550.		5 12	6
551.	80 $41\frac{3}{4}$ 9 8 0 $28\frac{3}{4}$	5 12	-
552.		$\frac{5}{12}$	_
553.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5 12	-
554.		$\frac{5}{5}$ $\frac{12}{12}$	_
555.		5 12	
		5 6	
556.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5 6	_
557.		56	_
558.	10		
559.		5 6	-
560.		5 6	_
561.		5 6	_
562.	= 3	5 6	_
563.	20 8 9 1 0 $5\frac{3}{4}$	5 6	0
EXT	RAS. If made in steel, Angle, 14/-; Shallow	0 10	0
	Packed in a mahogany case, 60 lbs. to 100 lbs., Angle, 22/6;		
		0 16	6 6
	Packed in a mahogany case, 20 lbs. to 55 lbs., Angle, 19/-;		1.5
		0 14	. 0
		0 4	
		· -	
∥" Br	itish Standard Specification and Sections of Steel Fishplates for 'B.S.'		
I	Bull-Head and Flat-Bottom Railway Rails" nett.	0 13	6 0

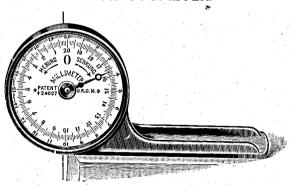
RAIL MEASURING MACHINES.



571

- 571. RAIL MEASURING MACHINE. This apparatus is for obtaining an accurate profile of the head of any tramway rail while in situ, so that the amount of wear which it has sustained can be easily gauged. It works upon the principle of a pantagraph, and the drawing is made upon a strip of paper which is fastened into the machine. The wear is measured by using the bottom of the groove, where no appreciable wear is supposed to take place, as a base. The instrument is of brass, well finished, and is fitted into a mahogany case £5 0 0
- 572. Ditto, for use with bull-head or flat-bottom rails, with adjustable bubble, in case \dots \dots \dots \dots \dots \dots \dots \dots 10 0 0
- 573. Ditto, a more exact apparatus consisting of a double pantagraph arrangement with which it is possible to obtain a complete profile of the whole head of the rail, including its undersides where no wear takes place, without reversing the apparatus ... 12 10 0

DEFLECTOMETER.



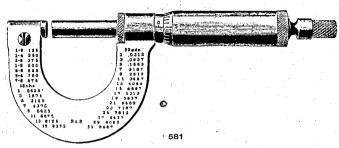
575

- 575. **DEFLECTOMETER,** for accurately measuring vertical and horizontal deflections in beams, girders, floors, columns, etc. It is made of metal with enamel dial, 8 c/m. dia., graduated to $\frac{1}{10}$ th m/m., or in inches to $\frac{1}{1000}$ th in. ... £3 15 0
 - **576.** Ditto, with maximum hand ...

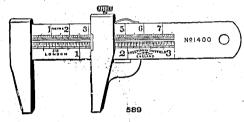
4 8 0

T. COOKE & SONS, LTD .

MICROMETER CALIPERS.



581.	MICROMETER CALIPER, capacity I in., reading to 1000 in., impression, with friction attachment and clamp, in morocco case	oved	£1 18	0
200			2 2	
	Ditto, reading to $\frac{1}{10000}$ in	•••		-
583.	Ditto, capacity 2 in., reading to $\frac{1}{1000}$ in	•••	2 14	-
584.	Ditto, reading to $10\overline{000}$ in		2 17	0
	Made in consent other sizes and batterns			



588.	STEEL CALIPER GAUGE, divided on one side, inches into 32nds and circumference measure into 16ths	3 is 7 /		4 in. 7/6	_	in. 6
		• /		.,,0		,,
589.	Ditto, inches into 32nds and centimetres into millimetres and halves	7/	_	7/6	. 8	/6
590.	Ditto, divided on both sides, inches into 32, 48, and 50ths, and centimetres into millimetres and halves	8/	-	8/6	9	/6
	Made in several other patterns and measurements					
591	1 ft. FOUR-FOLD POCKET RULE, & in, wide when closed, Bo	xwo	bc]	vorv	
001.		2	6	£0	6	6
592.	Ditto, $\frac{3}{4}$ in. wide 0	3		. 0	8	6
593.	2 ft. FOUR-FOLD POCKET RULE, I in. wide when					
,	closed, marked 18ths, 10ths, 13ths, and 16ths ins.					
	German silver joints, bevelled edges inside, with 8 scales 0	4	6	1	7	0
594.		5	6	1	12	6
595.	Ditto, 11 in. wide, bevelled edges inside and outside, with 8					
	scales, 4 chain scales, and protractor joint			1	15	0
596.	Ditto, $1\frac{1}{4}$ in. wide, as No. 594	_		1	17	0
597.	Ditto, 13 in. wide, as No. 595 0	7	6			
598.	D.tto, 13 in. wide, with German silver outside joints,					
	bevelled edges inside, 16 scales and protractor joint 0	7	6			
599.	FOLDING RULE OR ROD, boxwood or whitewood, with steel	spr	ing			
000.	joints and German silver ends; inches both sides, or inch	es a	and			
	centimeters; —					
	3 ft., 6-fold 2/6 I met., 6-fold		•••	0	2	6
	5 ft., 10-fold 3/6 2 met., 10-fold	l	•••	0	4	U
	6 ft., 12-fold 4/-					
600.	FOLDING ROD, lancewood, large:			_	_	
	5 ft., 5-fold 6/- 6 ft., 6-fold	١٠.	•••	,0	7	6

SPRING MEASURES.

Marked both sides, Feet and Metres.



In one width only, $\frac{1}{4}$ in.

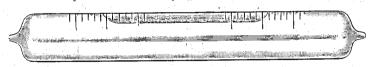
			3 II.	6 II.	911.	12 11.
626.	LINEN TAPE, in brass case, with spring stop	•••	2/6	3/3	4/-	5/-
627	Ditto, in German silver case, with spring stop		3/3	4/3	5/6	7/-
	STEEL TAPE, in brass case, with spring stop		4/-	5/3	6/9	8/3
	Ditto, in German silver case, with spring stop	• • • •	4/9	6/3	8/-	10/-
049.	Ditto, in German silver case, with spring stop		-1-	-7-		,

BLOCK LEVELS.



646

643.	SPIRIT LEVEL, ebony, with brass top plate and under tips, with s	sight	` .	_
	through, 9 in	•••	£0 4	0
	Ditto, 12 in	• • •	0 6	0
645.	Ditto, solid gun metal, with divided bubble, adjustable, fitted in	to a		_
	mahogany case, 9 in	•••	1 10	
646.	Ditto, 12 in	•••		0
	Ditto, 18 in	•••	2 10	0
	SMALL BRASS TUBE LEVEL, in turned boxwood case, 4 in.	•••	0 3	0
	For Platelayer's Levels see Surveying Instrument Catalogue (Sec	tion I.)		



BUBBLES, unmounted, machine-ground to a regular curvature, which gives much greater accuracy than hand grinding. In all sizes and degrees of sensitiveness up to $\frac{1}{2}$ sec., per $\frac{1}{10}$ in. of run. A list of standard sizes with prices will be sent on request.

MARINE CLINOMETERS.

651. SHIP'S CLINOMETER, consists of a circular tube containing mercury,		
with a contraction in the lower part to prevent undue oscillation.		
The tube is sunk into an oak or mahogany board, and is surrounded		
by a silvered-metal scale, divided into degrees. There are two		
indices to show the maximum roll		
652. Ditto, as used by the U.S. Navy, with 5 in. dial	2 17	0

DEEP SEA SOUNDING MACHINES.

THE LUCAS SOUNDING MACHINE is specially constructed for great depths. The wire, as it is paid out, passes over a measuring wheel, and the number of fathoms is shown on a dial. The brake is kept out of action by the strain on the wire, but immediately the sinker touches the bottom it stops the drum.

656. LUCAS SOUNDING MACHINE for depths of 400 fathoms, with handles and spanners £37 10 0

· T. COOKE $\mathcal{E}_{\mathcal{P}}$ SONS. $I_{I}TD$ 657. LUCAS SOUNDING MACHINE, for 1,000 fathoms £45 658. Ditto, for 5,000 fathoms, fitted with rope wheel for driving from ship's winch, or electric motor 78 n n 659. Sinkers, lead with tube at bottom, 20 lbs., 7/-; 30 lbs. 0 10 n Sounding Wire, bright steel, No. 22 gauge, in lengths to suit above 660. 1 17 O 661. reliable mechanical sounder; used with the ordinary sounding winch, and wire line ... 8 O 662. SOUNDING LINE, with weight, 25 ft., 10/-; 50 ft., 19/-; 100 ft. 1 17 SHIP-LOGS. 665 665. WALKER'S PATENT A1 "HARPOON" SHIP-LOG; unequalled for accuracy and durability, self-registering as it is drawn through the water ... £3 16 666. WALKER'S PATENT "CHERUB" SHIP-LOG, with registering apparatus for fixing to to taffrail, two rotators, two shoes, one hook £6 10 and three glasses ... 0 ... Extra rotators for ditto 1 0 0 ... Brass Fly-wheel Governor, for use with ship-log ... 0 15 0 ... Best Quality Log Line, 40 fathoms, No. 8, 16/-; No. 10 1 0 0 ... 670. Ditto, 50 fathoms, No. 8, 20/-; No. 10 5 0

register, rotator, one hook, one shoe, 100 feet of line, and sinker,

...

£4 .8

0 13 0

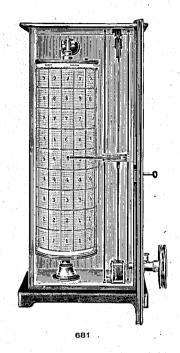
672. WALKER'S PATENT "EXCELSIOR" YACHT-LOG, complete with

• • •

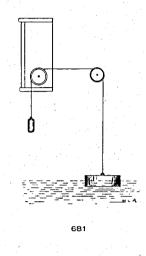
. ...

packed in a box

673. Extra rotators for ditto



TIDE GAUGES.



681. WATER LEVEL RECORDER OR TIDE GAUGE, for use in harbours, rivers, reservoirs, tanks, etc. This is a mechanical Recorder; the drum is driven by a reliable clock, which can be made to rotate daily or weekly, to order, and the position of the pen depends upon the movements of a float, to which it is connected. The charts are 14 in high by 19 in. wide; the instrument can be made to draw a diagram to any particular scale. The gear is of gun-metal, machine cut. The pen is carried on an accurate slide; it is always in sight and forms an efficient indicator. The chain is of phosphor bronze, 20 ft. long. The float is of strong tinned copper, 19 in. dia., with brass swivel. The counterweight is of cast iron, 11 lbs. in weight; a strong grooved brass counter-pulley is provided. The case is of cast iron, and the mechanism is robust; there are no delicate parts to adjust £40 0 0

682. Charts; ordinary quality, 100 for 35/-; 500 for ... 3 10 0

683. Ditto, accurately lithographed on heavy non-absorbent paper with shaded night portions, to suit special requirements, 100 for 120/-; 500 for ... 11 5 0

687. BALDWIN LATHAM'S RECORDING TIDE GAUGE, consisting of a vertical cylinder, $5\frac{1}{4}$ in. dia. \times 10 $\frac{3}{4}$ in. high, which is rotated once in 7 days by a spring lever clock of best make. The maximum rise and fall of tide is reduced by suitable gearing to about 9 in. on the chart. The measuring wheel is 2 ft. in circumference, and is sufficiently wide to be used for a maximum rise of tide of 40 ft. The float is of copper, $8\frac{1}{2}$ in. dia. The instrument can be geared suitable for any scale from $\frac{1}{4}$ th to $\frac{1}{50}$ th. It is enclosed in an ebonized case with glass doors and glass sides. With each instrument is supplied a spare beak pen, a supply of ink, 2 boxes of leads, a small sharpening file, and 50 ft. of spare flexible copper cord £85 0 0

A descriptive pamphlet will be supplied free on request.

The cost of packing the above in a zinc-lined case, and delivering F.O.B. London, is £4 nett.

688. Charts. The cost of lithographing any special chart on stone is £4 0 0

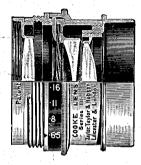
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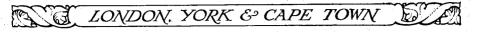
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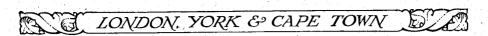
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