HORNE & THORNTHWAITE'S Descriptive Catalogue

SCIENTIFIC INSTRUMENTS,

121, 122, & 123, NEWGATE ST., LONDON.

PART 2. PHOTOGRAPHIC APPARATUS AND CHEMICALS.

Messes. Horne & Thornthwaite beg respectfully to observe, that all orders from abroad, or from country customers, must be accompanied by a remittance or order for payment in London, otherwise they cannot be forwarded. Attention to this particular will ensure their dispatch in the shortest possible time, and also command a discount of 5 per cent, off the published prices, if the amount exceeds \$5. Should the order be forwarded through an agent, it is particularly requested, to prevent disappointment, that implicit instructions be given that it is to be executed by Messrs. H. & T.; and, in orders from abroad, if the name of the country be also supplied, it will enable them to construct or select instruments that shall not be affected by the climate of the locality for which they are intended.

Messrs. Horne & Thornthwaite beg to state, that by far the greater number of the articles enumerated in the following List are manufactured by their own workmen on the premises, and, consequently, under their own immediate superintendence, and will be found of the best construction, and at prices extremely moderate for first-class instruments. They have also much pleasure in informing their friends and the public, that they have had awarded to them the Great Exhibition





FOR PHOTOGRAPHIC APPARATUS.

Every explanation and instruction, both as to the theory and manipulation of the various Photographic Processes, will be given gratuitously to purchasers of apparatus and others Photographic Processes, will be given gratuitously to purchasers of apparatus and others desiring information, either by letter or personally, at their Establishment, No. 122, Newgate Street, where they have erected a Glass Room expressly for Photographic Experiments.

JULY, 1856.

[SIXTH EDITION,]

postage or receipt stamps.

Eleventh Edition, just published, price 1s., post-free 1s. 2d.,

A GUIDE TO PHOTOGRAPHY:

CONTAINING SIMPLE AND CONCISE

Directions for obtaining Views, Portraits, &c., by the Action of Light on Prepared Surfaces of Paper and Glass, including Plain Directions for the production of Positive and Negative Collodion Pictures, and for taking Landscapes, &c., &c., by the Calotype and Waxed Paper Process:

Clear Instructions in the New Collodio-Albumen Process, and Printing Positives on Paper; with the Method of Taking Stereoscopic Pictures.

BY W. H. THORNTHWAITE,

Author of "Photogenic Manipulation," &c.

Elebenth Edition.

SIMPKIN AND MARSHALL, STATIONERS' HALL COURT; AND HORNE AND THORNTHWAITE, 122 & 123, NEWGATE STREET, LONDON.

HORNE & THORNTHWAITE'S COMPOUND LENSES FOR PHOTOGRAPHY.

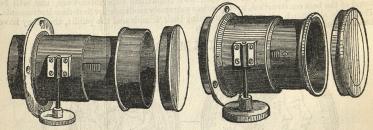


Fig. 1071.

Fig. 1077.

THE portrait and landscape combinations of Horne & Thornthwaite's own manufacture are strongly recommended to the photographic public, as possessing a new feature in portrait lenses; viz., that of a long chemical range, by which every part of the sitter is in good focus in the pictures produced by them, whilst their rapidity of action is ensured by a peculiarity of the mode of correction in their manufacture, which guards against any of the yellow rays being left uncorrected (as those rays, if not corrected, would make the lens slow in action). The chemical and optical rays perfectly coincide, and the definition is such as to produce every minute detail with perfect distinctness; indeed, Messrs. Horne & Thornthwaite venture to assert, without fear of contra-

ic

liction, that the lenses they now manufacture are superior to those of foreign

roduction, and are not to be excelled by those of any maker. As customers frequently require lenses of good average quality only, they have made arrangements to supply two other qualities without maker's name.

PORTRAIT LENSES.

- Any purchaser may see any lens of our manufacture, tested and a picture produced by it; or, where such is not practicable, a picture taken by the lens will be supplied, if desired, as a guarantee of its qualities,
- 1066 Portrait Combination, consisting of two compound achromatic lenses, in handsome brass mountings, with rack and pinion adjustment, the lenses $1\frac{3}{4}$ inches in diameter, for taking pictures $4\frac{1}{4}$ inches by $3\frac{1}{4}$ inches, 16s.

 - 1068 Ditto, ditto, Horne & Thornthwaite's own manufacture, £3 13s. 6d. 1067 Ditto, ditto, superior quality, £1 7s. 6d.
 - Portrait Combination, consisting of two compound achromatic lenses, in handsome brass mountings, with rack and pinion adjustment, the lenses $2\frac{3}{2}$ inches in diameter, for producing pictures $6\frac{1}{2}$ inches by 1069 43 inches, £2 5s.
 - Ditto, ditto, superior quality, £3 3s.
 - Ditto, ditto, Horne & Thornthwaite's own manufacture, £7.
 - 1071 Δ Ditto, arranged for taking portraits up to $6\frac{1}{2}$ inches by $4\frac{3}{4}$ inches, and 1070 views 9 inches by 7 inches, with three variable stops, £8 8s.
 - Portrait Combination, consisting of two compound achromatic lenses, in handsome brass mountings, with rack and pinion adjustment, the lenses 3\frac{1}{4} inches in diameter, for producing portraits, &c., 8 inches 1072 by 6 inches, fig. 1071, £5 10s.
 - Ditto, ditto, superior quality, £9 9s.

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- 1074 Ditto, ditto, Horne & Thornthwaite's own manufacture, £15 15s. 1073
- 1074A Ditto, arranged for taking portraits up to 8 inches by 6 inches, and views 12 inches by 10 inches, with three variable stops, £17 17s.

The front lens of this Portrait Combination may be used for taking views 12 inches by The front lens of this Portrait Combination may be used for taking views 12 inches by 10 inches; but its great length of focus renders it inapplicable for the production of pictures of a smaller size. Where these are required, one of the landscape lenses, page 92, must be of a smaller size.

- Portrait Combination, consisting of two compound achromatic lenses, in handsome brass mountings, with rack and pinion adjustment, the employed. in handsome oracle in the posterior combination 34 inches diameter and the posterior combination to the producing pictures 0 inches to producing pictures 0 front combination $4\frac{1}{4}$ inches, for producing pictures 9 inches by 7 inches, £22. 1075
- Ditto ditto, with both lenses $4\frac{1}{4}$ inches in diameter, for pictures 10 inches by 8 inches, £32. 1076

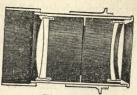


Fig. 1071.*

Whenever the lenses are removed from their cells, in order to be cleaned, it is very important that they be replaced in the same order as regards their position, &c. Instances are not unfrequent of lenses being returned from a distance, with a list of their defects, which are immediately remedied by placing them in their correct positions.

The front lens of a portrait combination is composed of two different kinds of glass, which are joined together by a transparent cement. The convex side of this lens must be towards the sitter. The two back lenses are of different shapes, so that they may easily be recognized; the one with the thick edge must be placed with its convex side towards the sitter, and must be the nearest of the two to the front lens. The back lens is thin at the edge, and its most convex side must be towards the sitter, as shown by the above cut.

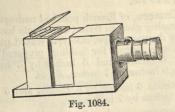
The front lens of the portrait combinations 1071 and 1073 can be used for taking pictures of views, monuments, buildings, &c., by being removed from its portrait mounting, and screwed into a brass mounting similar to fig. 1077.

Three stops, with different sized apertures, are supplied with the view mounting and with landscape lenses; but which is to be selected for use in each particular case, must depend on the judgment of the operator. In dull weather, and in copying objects indifferently illuminated, the largest size aperture stop is used; the middle size stop is for general use in moderate light, and the smallest size when the object to be copied is exposed to full sunshine or great sharpness is required; and it may be taken as a general rule, within certain limits, that the smaller the aperture which admits the light, the greater is the sharpness of the picture produced, but the time of exposure must be increased where such small apertures are employed.

LANDSCAPE LENSES.

- Landscape Lens, consisting of one achromatic combination 13 inches in diameter and 8 inches focal length, mounted in brass, with rack and pinion adjustment, for producing pictures 6 in. by 5 in., £1 15s.
- Landscape Lens, consisting of one achromatic combination 2 inches in diameter and 10 inches focal length, mounted in brass, with rack and pinion adjustment, for producing pictures 7 in. by 6 in., £2 12s. 6d.
- 1079 Landscape Lens, consisting of one achromatic combination 23 inches in diameter and 14 inches in focus, mounted in brass, with rack and pinion adjustment, for producing pictures 9 in. by 7 in., £3 13s. 6d.
- 1080 Landscape Lens, consisting of one achromatic combination 3 inches in diameter and 16 inches focal length, mounted in brass, with rack and pinion adjustment, producing pictures 12 in. by 10 in., £5 5s.
- 1080α Landscape Lens, 4 inches diameter, for pictures 16 in. by 12 in., £10 10s. For the prices of unmounted Landscape Lenses, of ordinary make, see No. 1136

PHOTOGRAPHIC CAMERAS.

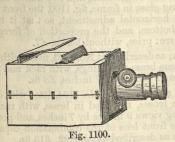


EXPANDING CAMERAS.

- 1081a Expanding Camera of walnut wood, with sliding body, focusing glass in frame, one single back and two plate holders, for taking pictures up to $4\frac{1}{4}$ inches by $3\frac{1}{4}$ inches, 10s.
- 1081b Ditto, for taking pictures up to 6 inches by 5 inches, 13s.
- 1081c Ditto, for taking pictures up to 8 inches by 6 inches, £1.
- 1081 **Expanding Camera**, of French polished mahogany, with sliding body, focusing glass in frame, and single back, for taking pictures on glass or paper up to 5 inches by 4 inches, £1.
- 1082 Expanding Camera, as described at No. 1081, fitted with single achromatic lens, No. 1077, £2 16s.
- 1083 Expanding Camera, as described at No. 1081, fitted with double combination of achromatic lenses, No. 1068, £4 13s. 6d.
- Expanding Camera, of French polished mahogany, with sliding body, fig. 1084, focusing glass in frame, one single back, for taking pictures either by the daguerreotype, calotype, waxed paper, or collodion processes, with two frames for holding prepared plates 4 inches by 3 inches, and 3½ inches by 2¾ inches, and capable of taking views 6 inches by 5 inches, £2 12s. 6d.
- 1085 **Expanding Camera**, as described at No. 1084, fitted with single achromatic lens, No. 1077, £4 8s.
- Expanding Camera, as described at No. 1084, fitted with double combination of achromatic lenses, adapted for taking portraits 4 inches by 3 inches, £6 6s.
- Expanding Camera, of French polished mahogany, with sliding body, fig. 1084, with focusing glass in frame, one single back, for taking pictures either by the daguerreotype, calotype, waxed paper, or collodion processes, with two frames for holding prepared plates, 6 inches by 5 inches, and 5 inches by 4 inches, and capable of taking views 7 inches by 6 inches, £3 15s.
- 1088 Expanding Camera, as described at No. 1087, fitted with single achromotic lens, mounted in brass, with rack and pinion adjustment capable of taking views 7 inches by 6 inches, £6 8s. 6d.

- 1089 Expanding Camera, as described at No. 1087, fitted with double combination of achromatic lenses, handsomely mounted in brass, with rack and pinion adjustment, adapted for taking portraits 6 inches by 5 inches, £10 15s.
- Expanding Camera, of French polished mahogany, with sliding body, fig. 1084, focusing glass in frame, one single back, for taking pictures either by the daguerreotype, calotype, waxed paper, or collodion processes, with two frames for holding prepared plates, for portraits 8 inches by 6 inches, and 6 inches by 5 inches, and capable of taking views 9 inches by 7 inches. £4 4s.
- 1091 Ditto, for portraits 6 inches by 5 inches, and 5 inches by 4 inches, and views 9 inches by 7 inches, £4.
- Expanding Camera, as described at No. 1090, fitted with single achromatic lens, mounted in brass, with rack and pinion adjustment, adapted for taking views 9 inches by 7 inches, £7 13s. 6d.
- Expanding Camera, as described at No. 1090, fitted with a double combination of achromatic lenses, adapted for taking portraits up to 6 inches by 5 inches, and the front lens capable of being used for taking views, 9 inches by 7 inches, by being screwed into a separate mounting, £12 8s.
- 1094 Expanding Camera, as described at No. 1090, fitted with a double combination of achromatic lenses, adapted for taking portraits up to 8 inches by 6 inches, £19 19s.
- fig. 1084, with focusing glass in frame, one single back for taking pictures either by the daguerreotype or collodion processes, and one double back for taking pictures by the calotype or wax paper processes, with two frames for holding prepared plates 8 inches by 6 inches, and 6 inches by 5 inches, and capable of taking views 12 inches by 10 inches, £11.
- 1097 Expanding Camera, as described at No. 1096, fitted with single achromatic lens, mounted in brass, with rack and pinion adjustment, adapted for taking views 12 inches by 10 inches, £16 5s.
- Expanding Camera, as described at No. 1096, fitted with double combination of achromatic lenses, mounted in brass, with rack and pinion adjustment, adapted for taking portraits up to 8 inches by 6 inches, and views 12 inches by 10 inches, the front lens capable of being used for taking views as described at page 92, £28.
 - N.B.—It should be observed that these prices do not include a double camera back. For prices see Nos. 1131, 1132, 1133.
 - If any of these cameras are intended for India or other hot countries, it is necessary they should be constructed of Spanish mahogany, and the sides champed with brass, so as to ensure their withstanding the effect of climate. This will add an extra expense to No. 1084, of £1 10s; to No. 1087, an extra expense of £1 11s. 6d.; to No. 1090, an extra expense of £2 10s.; and to No. 1096, £3 10s.

HORNE & THORNTHWAITE'S FOLDING CAMERAS.



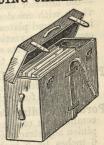


Fig. 1124.

FOLDING CAMERAS.

HORNE & THORNTHWAITE'S Portable Folding Camera can be be highly recommended for tourists, travellers, and others requiring a most effective instrument for taking views, portraits, &c., combined with the smallest possible bulk and weight. The sides are hinged so as to fold inwards, so that when closed a camera for taking pictures 7 inches by 6 inches, focusing frame and backs, will pack into a case, fig. 1124, external diameter of which is 15 inches long, 9½ inches wide, and 4 inches thick, and is so constructed as to be adapted for both paper and glass processes, and is not liable to any injurious effect of climate.

Portable Folding Camera, of Spanish mahogany French polished, with one aperture for views only, adapted for taking pictures 7 inches by 6 inches, with one double back, for holding two pieces of prepared paper, and focusing glass in frame, £4 4s.

Portable Folding Camera, of Spanish mahogany French polished, with two apertures adapted for taking pictures 7 inches by 6 inches—the anterior one for portraits, and the posterior one for views; with one double and one single back, and two frames for holding prepared plates, fig. 1100, without lenses, £5.

Portable Folding Camera, as described at No. 1099, fitted with single achromatic lens, in handsome brass mountings, with rack and pinion adjustment, for taking views 7 inches by 6 inches, £6 16s 6d.

Portable Folding Camera, as described at No. 1100, fitted with double combination of achromatic lenses, mounted in brass, with rack and pinion adjustment, for taking portraits 6 inches by 5 inches, and with single achromatic lens, in brass mountings, with rack and pinion adjustment for taking views, 7 inches by 6 inches, £14 12s. 6d.

Portable Folding Camera, of Spanish mahogany French polished, with one aperture for views only, adapted for taking pictures 9 inches by 7 inches, with one double back for holding two pieces of prepared sensitive paper, and focusing glass in frame, £4 14s. 6d.

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- Portable Folding Camera, of Spanish mahogany French polished adapted for taking pictures 9 inches by 7 inches, with two apertures—the anterior one for taking portraits, and the posterior one for views, with one double and one single back, and two frames for holding prepared plates, focusing glass in frame, fig. 1100, the front of this camera has a vertical and horizontal adjustment, so that it may be used either on its side or bottom, and the proportion of foreground and sky varied in the picture: price, without lenses, £7.
- Portable Folding Camera, as described at No. 1103, fitted with single achromatic lens, in handsome brass mountings, with rack and pinion adjustment, for taking views 9 inches by 7 inches, £8 8s.
- Portable Folding Camera, as described at No. 1104, fitted with double combination of achromatic lenses, mounted in brass, with rack and pinion adjustment, for taking views 9 inches by 7 inches, and portraits 6 inches by 5 inches—the front lens of the combination capable of being used for taking views as described at page 92, £15 8s.
- Ditto, with double combination lenses, for taking portraits 8 inches by 6 inches, and single lens for views 9 inches by 7 inches, £26 8s. 6d.
- Portable Folding Camera, of Spanish mahogany French polished, adapted for taking pictures 12 inches by 10 inches, with one aperture for views only, one double back for holding two pieces of prepared sensitive paper, and focusing glass in frame—the front of this camera can be moved in an horizontal and vertical direction by sliding adjustment, so as to vary the proportion of the foreground and sky in a picture, £8.
- Portable Folding Camera, of Spanish mahogany French polished, adapted for taking pictures 12 inches by 10 inches, with two apertures—the anterior one for taking portraits, and the posterior one for views, with one double and one single back, and two frames for holding the prepared plates, and focusing glass in frame—the front of this camera has a vertical and horizontal adjustment, so that it may be used either on its side or bottom, and the proportion of foreground and sky in a picture may be varied, £11 12s.
- 1110 Portable Folding Camera, as described at No. 1108, fitted with single achromatic lens, handsomely mounted in brass, with rack and pinion adjustment, for taking views of any size up to 12 inches by 10 inches, £13 5s.
- Portable Folding Camera, as described at No. 1109, fitted with double combination of achromatic lenses, in handsome brass mountings, with rack and pinion adjustment, for taking views 12 inches by 10 inches, and portraits 8 inches by 6 inches—the front lens capable of being used, for taking views as described at page 92, £29 9s.
- 1112 Soft leather cases for lenses, 2s., 2s. 6d., and 4s. each.
- 1113 Sling leather cases, with straps for ditto, 10s. 6d., 15s., and 18s. each.

PORTABLE FOLDING AND EXPANDING CAMERAS.

See fig. 24, in Thornthwaite's Guide to Photography.

- Portable Folding and Expanding Camera, of Spanish mahogany, with hinged sides, the body and sliding part folding inwards, so as to occupy but little space when closed—this form of camera possesses the advantage of its length being so capable of being varied, that lenses of almost any focal length may be used.
- Portable Folding and Expanding Camera, with one single back, for taking pictures 7 inches by 6 inches, with two frames for holding 1114 prepared plates, and focusing glass in frame, £6 6s.

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- Ditto, fitted with single achromatic lens, mounted in brass, with rackwork adjustment, for views 7 inches by 6 inches, £8 18s. 6d. 1115
- Ditto, fitted with double combination of achromatic lenses, for taking portraits up to 6 inches by 5 inches, £13 13s. 1116
- Portable Folding and Expanding Camera, with one single back, for taking pictures 9 inches by 7 inches, with two frames for holding 1117 prepared plates, and focusing glass in frame, £7 7s.
- Ditto, fitted with single achromatic lens, mounted in brass, with rackwork adjustment, for taking views 9 inches by 7 inches, £11 0s. 6d. 1118
- Ditto, fitted with a double combination of achromatic lenses, adapted for taking portraits 6 inches by 5 inches, and views 9 inches by 1119 7 inches, with one double and one single back, £17 5s.
- Portable Folding and Expanding Camera, with one single back, for taking pictures 12 inches by 10 inches, with two frames for hold-1120 ing prepared plates, and focusing glass in frame, £11.
- Ditto, fitted with achromatic lens, in brass mountings, with rack and pinion adjustment, for producing pictures up to 12 inches by 10 inches, 1121
- Ditto, fitted with compound achromatic lenses, for taking portraits up to 8 inches by 6 inches, and views 12 inches by 10 inches, with one 1122 double and one single back, £31 9s.

CASES FOR FOLDING CAMERAS.

- Solid leather case for a folding camera producing pictures 7 inches by 6 inches, fig. 1124, £1 7s. 6d. 1123
 - Ditto for a camera producing pictures 9 inches by 7 inches, £1 12s.
- Ditto for a camera producing pictures 12 inches by 10 inches, £2 10s. 1124 1125

STEREOSCOPIC CAMERA.

Stereoscopic Camera, fig. 1126, mounted on base board, with parallel rulers and camera back, for taking stereoscopic pictures, adapted for being viewed by the Refracting Stereoscope, and fitted with double 1126 combination of achromatic lenses, with stops, taking either views or portraits, £6 10s.

CAMERA BACKS, OR EXPOSING FRAMES.

All our camera backs and the openings of the cameras are now made to standard sizes, so that, in case a purchaser who may possess one of our cameras should require additional backs, he can obtain them without sending us the camera to have them fitted.

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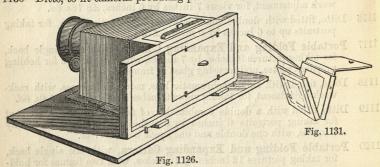
127 Single Camera Backs or Exposing Frames, to fit cameras producing pictures 6 inches by 5 inches, with two frames for holding pre-

pared plates, 17s.

1128 Ditto, to fit cameras producing pictures 7 inches by 6 inches, £1 2s.

1129 Ditto, to fit cameras producing pictures 9 inches by 7 inches, £1 10s.

1130 Ditto, to fit cameras producing pictures 12 inches by 10 inches, £2 128.



DOUBLE CAMERA BACKS.

HORNE & CO.'S double back is so constructed that two pieces of sensitive paper can be laid into it, back to back, and is furnished with a sliding cover to each. When a camera is arranged to take a view, with the double back in its place, the anterior sliding cover is drawn out so as to expose one sheet of the sensitive paper to the action of light. After the necessary exposure has taken place, the sliding cover is pushed down, the double back withdrawn from the camera, and if a second picture is required of the same object or view, the back is turned round and replaced in its position in the camera; but now, having the other sensitive sheet next the lens, the anterior sliding cover is withdrawn, and the paper exposed the necessary time to the action of light; when this has taken place, the sliding cover is pushed down so as to guard the paper from the influence of light in the usual manner.

This form of back offers the advantage of affording the means of taking two pictures without any increase in size over the old form of single back, in which one picture only could be taken without changing, and

can be applied to any form of camera.

1131 Double Camera Backs, to fit cameras producing pictures 7 inches by 6 inches, fig. 1131, £1 2s.

1132 Ditto, to fit cameras producing pictures 9 inches by 7 inches, £1 10s.

1133 Ditto, to fit cameras producing pictures 12 inches by 10 inches, £2 12s.

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- 134 Parallel Mirrors, mounted in brass frame, to attach to the front of the camera, for taking pictures in a correct position for 4-plate lenses, £1 10s.
- Ditto, \frac{1}{2}-plate ditto, £2 12s. 6d. 1135

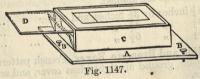
Photographic Landscape Lenses, unmounted, of ordinary achromatic construction, suitable for taking views by the waxed paper or collodion process.

Our own manufacture of landscape or portrait lenses are not sold except in a mounted state, as described at page 91.

	the or medianees		£0 10	0
1136	13 inch diameter, about 7 inches focus		0 14	0
1137	2	CON VA	0 18	
1138	$\frac{21}{4}$, $\frac{10}{12}$,	ST. IT	1 5	0
1139	$2\frac{1}{2}$ " $\frac{12}{2}$ " 1	G. Iron	1 16	0
1140	3 , 14 ,		·	l anne

Plano-convex, crossed, meniscus, and every other description of lens required in photographic experiments.

Claudet's Focimeter, for ascertaining the amount of separation existing between the optical and chemical foci of lenses, £1 10s.



IODINE AND BROMINE PANS.

	all
	Dong of class with air-tight ground glass covers.
	Iodine and Bromine Pans, of glass, with air-tight ground glass covers.
0 8	Todine and Bromme 2 wars, 11 inches £0 8 6
1142	For plates up to $\frac{41}{4}$ inches by $\frac{41}{4}$ inches £0 8 6 0 12 0
1143	" " 63 1 0 0
1144	$\frac{9}{2}$ $\frac{81}{2}$ $\frac{9}{4}$ $\frac{1}{2}$ 1
1144	" a laing the plates of any size for No. 1142 Iouine and
1145	" " 8½ " " " " " " " No. 1142 Iodine and Wood frames for holding the plates of any size for No. 1142 Iodine and
1140	Desmine nans. 18. cach.
	Bromine party
man far	Ditto, for 1143 or 1144 pans, 1s. 6d. each.
1146	Ditto, for 1145 of Browine Boxes, single, of walnut wood, with delf pans,
Leggs	and Bromine Boxes, single, of walnut wood, with den pans,

Iodine and Bromine Boxes, single, of walnut wood, with delf pans, ground air-tight glass covers, and frames for holding the plates.

ground an engine single	ches by 31 inches		£0 13 0
1147 For plates up to 44 II 1148 " " 81	$\frac{4\frac{3}{4}}{2}$ "		0 16 0
	" $6\frac{1}{2}$ "	Box. Plen	1 1 0
1149 " - 1 Promin	Roy single, of Frei	nch polished	mahogany, with

Iodine and Bromine Box, single, of French polished mahogany, with glass pan, ground air-tight glass cover, frames for holding plates, and mirror for viewing the plate while under the influence of the vapour. For plates 41 inches by 31 inches

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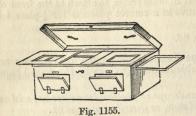




Fig. 1161.

IMPROVED IODIZING AND BROMINE APPARATUS.

Double Iodine and Bromine Boxes, consisting of two stout glass pans, enclosed in mahogany or walnut wood case, with spring bottoms and air-tight glass covers, and set of frames for holding the plates. Two mirrors are placed on one side for viewing the plate while being prepared; and on the other two, apertures for the admission of light. The great advantage of this form of apparatus for preparing plates, consists in the facility and certainty with which the sensitive coatings are applied.

1155	For plates	41	inches by	$3\frac{1}{4}$	inch	es,	and unde	r	/	6			
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1157	"	$8\frac{1}{2}$	"	$6\frac{1}{2}$	"		"	•••	•••		9	U	U

Double Iodine and Bromine Boxes, French pattern, of walnut wood, with delf pans, ground air-tight glass cover, and set of frames, without mirrors

	Out min									SPECIAL PROPERTY.	
1158	For plates	un to 4	41 inches b	by $3\frac{1}{4}$ inches $4\frac{3}{4}$, $6\frac{1}{4}$,				£1	6	0	
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1160	o shero has o	8	81	$6\frac{1}{4}$,,		•••	•••	Z	2	U	

MERCURY BOXES.

Mercury Box, of polished mahogany, with window of yellow glass, for viewing the picture during the action of the mercury, shifting legs, cast-iron cistern, and frames, complete, fig. 1161.

1161	For plates	s 4½ i	nches b	y 3½	inches	•••					1	
1162	"	$6\frac{1}{2}$	"	44	"	•••		1	•••			^
1163	"	81/2	"	$6\frac{1}{2}$			•••	5	•••			U
	Mercury	Box,	Frenc	h pat	tern, w	alnut woo	od, wi	th ther	mome	eter.		

	more and		The Second Second Second			STATE OF THE PARTY AND THE	NAME OF STREET			
1164	For plates 41 inc	ches by 3	inches inches	•••	•••		•••	£0	12	0
1165	, 65	" 6	4))			•••	•••	0	16	0
1166	", $8\frac{1}{2}$	"	· · · · · · · · · · · · · · · · · · ·		•••	•••	•••	1	2	0
1167	Thermometers,	with ivo	ry scales to	mercu	ury box	es, 7s.	6d. ea	ich.		

Thermometers, what it is seen to inercury boxes, 7s. 6d.

1168 Frames for the above mercury box, any size, 1s. 6d. each.

	Silvered Pl	ates for t	the Das	ruerre	otype,	of En	glish manu	ıfactur	e.
1100	Sing of inch	as ber 0 in	ahog	and be	sle and	DET SE	per dozen	£0 12	
1169	Size $2\frac{1}{2}$ inch	100		Milgo	g file a		"	0 18	3 ()
1170	" 2 3	2	"	Forty La	doctes.	вонова	27	1 8	
1172	" 41 " 41	" 91	"				,,	1 13	THE RESERVE OF THE PARTY OF THE
1173	, E	" 1	"		In.oct		27	2	
1174	" cl	13	"				"	0	5 0
1175	$\frac{9}{9}$ $\frac{6\frac{1}{2}}{8\frac{1}{2}}$	" GI	2)	•••			22	5 10	0 0
	Silvered P	" O2	the De	OWI	entune	best	French ma	anufact	ure.
	Silvered P	lates for	the Da	ig.neri	o. 40.	, , ,	No. 30. E	lectro-pl	lated.
1	Size			£	s. d.	£		£	3. d.
1180	$2\frac{1}{2}$ inches by	y 2 inches	ner do		3 6	(.,	5 6
1181	03	$3\frac{1}{4}$ "	, por		5 6	(**	8 9
1182	1	3 ,,	25	0	8 0	(AND THE PERSON NAMED IN COLUMN TWO	. 0 1	0 6
1183		$3\frac{1}{4}$ "	2	, 0	8 6		AND THE RESERVE AND THE PERSON NAMED IN	., 0 7	16 0
1184		4 ,,	3 m	, 0	12 0			1	1 0
1185		43/4 "	,	, 0	17 6		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2	0 0
1186		$6\frac{1}{2}$,	674611 3	, 1	14 0	•••	1 10 0 .	4	
	Plate Box	vas of no	lished n	nahoga	ny, for	hold-		\$ 1000000000000000000000000000000000000	mummel)
	ing one	dozen dag	uerreoty	pe pla	tes.		Beitettind		
118		21 inches	by 2 in	ches	£0	3 0			
118		$3\frac{1}{4}$,,	$2\frac{3}{4}$	"	0	3 6 4 0			
118	9 "	4 ,,	3	"	0	4 3			
119	- "	44 "		"	0	4 6	~		
119	7	5 "	4	27	0	5 6			
119		$\frac{6\frac{1}{2}}{01}$,	CT	"	0	6 6			
119	3 "	$8\frac{1}{2}$,	02	"	A LANGE OF THE PARTY OF THE PAR	plon to			

Fig. 1187.

POLISHING APPARATUS, &c.

1194 Lathe, complete, with collar, mandrel, iron wheel and treddle, wood frame and bed, mounted with two circular velvet buffs, 9 inches diameter, and two plate holders, for sixth or quarter plates, from £5 5s.

PLATE-HOLDERS.

Metal Plate-holders, for use with circular buffs in the lathe, or for securing the plate while buffing by hand, of superior make.

1105	For plates,	$2\frac{1}{2}$	inches by	2 inc	ches				 £0	6	0
1196		$3\frac{1}{4}$	"	$2\frac{3}{4}$	"	•••		****	 0	7	0
	" .	4	22	3	"	***			 0	8	0
1197	. , , ,	5	- "	4	11	•••	•••			10	
1198		. 3	Handle	i+1	m+==1				U	10	v
1199	Hard Wo	oa	Hanuie,	MIGH	steer	pm for	use wit	h ditto	 0	1	0
1100			na of woo						FI F		A SHEET

1200 **Plate-holders**, of wood, with brass corners and cramp to fix to table while cleaning or polishing, for any size of plate from $2\frac{1}{2}$ inches by 2 inches to $8\frac{1}{2}$ inches by $6\frac{1}{2}$ inches, 2s. to 4s,

American Plate-holder, consisting of an iron clamp and screw, with blocks for the various sized plates; this arrangement retains the plate very firmly during the application of the buff, and will be found of great convenience, especially for French plates.

1201 Clamp
1202 110h Block, for places 22
1903
1904
$\frac{1205}{1205}$, $\frac{61}{2}$, $\frac{43}{4}$, 0 5 0

1206 Plate-bender, for bending the edges of thin French plates, to prevent injury to the buff, 8s.

1207 Pliers, of an improved form, for bending the corners of plates, and also for holding the plate in drying, 2s.

ELECTRO-SILVERING APPARATUS.

For giving a coating of pure silver to Daguerreotype plates, and also for re-silvering used-up plates.

1214 Smee's batteries, one-pint size, 10s.

1215 Ditto, one-quart size, 12s. 6d.

1216 Precipitating Cells, fitted with binding screws, complete, for plates 4 inches by 3 inches $\pounds 0$ 4 6 1217 ... $6\frac{1}{2}$... $6\frac{1}{2}$... $6\frac{1}{2}$... $6\frac{1}{2}$ 0 7 0 17 6 1218 ... $8\frac{1}{2}$... $8\frac{1}{2}$... $8\frac{1}{2}$ 0 17 6

1219 Pure silver foil for the above, 10s. per ounce.

1220 Argento-cyanide of potassium, or silvering solution, 10s. per pint.

1221 Ditto ditto, full strength, 1s. per ounce.

1221 Electro-silvering Apparatus, complete, for silvering any size plate up to $6\frac{1}{2}$ inches by $4\frac{3}{4}$ inches, consisting of a No. 1204 Smee's Battery, glass cell fitted with the necessary binding screws, one ounce of pure silver in foil, and one pint of silvering solution of the proper strength in stoppered glass bottle, £2 10s.

1223 Ditto ditto, for any size plate up to $8\frac{1}{2}$ inches by $6\frac{3}{4}$ inches, £4 4s.

BUFFS.

Buffs, to work with the hand, covered with prepared silk or cotton velvet or doeskin leather, fig. 1225, or plain, according to size.



Fig. 1225.

	16001161, 118. 1220, 01	promise, or	cording to bino.		
0.0	Oliver to the later	411	Cotton Velvet.		
U	Size.		£ s. d.		
1126	12 inches by 3 inches		0 3 0	. 0 4 0	0 5 6
	15 , 3 ,	******	0 4 0	. 0 5 0	0 6 6
	16 4	totio	0 4 6	. 0 6 0	0 7 6
	19 , 6 ,		0 5 0	. 0 7 6	0 8 0
	Best carded cotton woo			AN AN ANALYS	AND STATE OF THE S

1231 Sifting Boxes, hard wood, for containing polished powders, 1s. 6d. each.

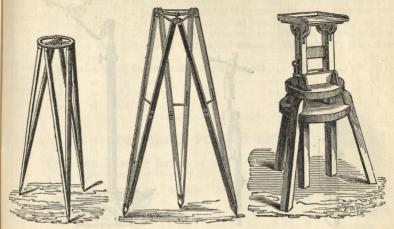


Fig. 1232.

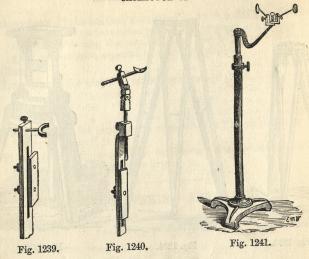
Fig. 1234.

Fig. 1237.

CAMERA STANDS.

In order to keep the camera steady when taking views or portraits, and to raise or depress it as may be required, a camera stand is absolutely essential. If for the operating room only, where weight or bulk is no consideration, the table-stand, fig. 1237, is the most useful; but where the object is to take views, &c., as in travelling, the portability of the stand becomes of equal importance with its steadiness. The forms of fig. 1232 or 1234 answer well, and will be found suitable for the purposes intended.

- 1232 Camera Stand, fig. 1232, with double tripod legs and circular wooden top, with plate to be fixed to the bottom of camera, and tightening screw, small size, 4 feet high, 14s.
- 1233 Ditto, large size, 4½ feet high, 18s.
- 1234 Camera Stand, fig. 1234, with double tripod legs with brass stretchers, triangular brass top, with plate to be fixed to the bottom of camera, and tightening screw—this form of stand will be found very convenient for use, and, from its construction, remarkably firm and portable, and suitable for any sized camera, £1 15s.
- 1235 Camera Stand, with brass top and ash legs, very light and steady,
- 1236 Camera Stand, with jointed legs, capable of being packed in an ordinary portmanteau, £2 5s.
- 1237 Table Stands, with all the required adjustments, particularly adapted for the operating room, in white wood, with brass screws, fig. 1237, £1 6s.
- 1238 Ditto, in oak, £1 15s.



HEAD RESTS.

Head rests are necessary in order to keep the head of the sitter perfectly steady whilst a portrait is taken.

Head Rest, to attach to the back of a chair, of the simplest construc-1239

tion, fig. 1239, 2s. 6d.

Head Rest, to attach to the back of a chair, with joints, so that the 1240 head piece can be raised, depressed, or placed at any required angle, fig. 1240, 6s. 6d.

1240a Universal Head Rest, mounted on heavy foot, with sliding adjusting tube for steadying the head, when the person is either standing or sit-

ting, without the aid of a chair, fig. 1241, £3 13s. 6d.

WASHING PANS.

Porcelain Pans, with flat bottoms; shallow, for preparing calotype or positive paper, and deep, for washing, &c.

	or Posser				1 1	1 in	ahaa	£	0	0 1	10
1241	Shallow,	suitable siz	ze for pape	er, 5 m	cnes	by 4 II	iches			7	0
1241α	Deep		"	5	22	4	99	•••	0	1	0
The state of the s))		7		6	"		0	1	6
1242	Shallow	"	"	7	"	6			0	1	9
1242α	Deep	" "	2)	,	"		"	ST WHEN THE	0	1	9
1243	Shallow	"	"	9	22	7	"	STATE OF THE PARTY OF	-	7	-
1243a	Deep	"	"	9	"	7	"	•••	-	2	0
	Shallow			11	22	9	22	2	0	3	0
1244		")))			9			0	3	9
1244a	Deep	"	55	11	, 99	THE REPORT OF THE PERSON NAMED IN	"	TOOL STREET	-	1	0
1245	Shallow	"	"	12	33	10	"		0	4	0
1245α	Deep	ring home	dendi, bo	12	22	10	"		0	5	6
1246	Shallow	The state of the s	and the same of the	15	100 mod / 100	9	,,	and to	0	6	6
		"	"	15	"	9			0	8	0
1246a	Deep	"	"		"	Herring Control	"				0
1247	22	"	"	17	22	12	"	0 41***	0 1	4	U

Glass Dishes, with polished bottoms and edges, for washing and preparing calotype paper, possessing the great advantage over the porcelain trays of not absorbing chemical solutions, so that they may, if required, be used for different solutions, one after the other, without fear of that admixture that would ensue if the ordinary pans were

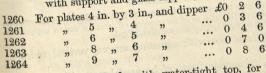
	fear	of th	at adr	nixture	dia wo			£0 6	0
	empl	oyed.			esido measureme	ent	•••	±0 0	0
1249	7½ inc	ches b	y 5½ 1	nches,	inside measureme		•••	0 16	0
1250	91	22	71/2	22	"			" 1 1	0
1251	105	22	84	22	"	•••	•••	•••	
1252	$12\frac{7}{2}$	"	$10\frac{1}{2}$	22	, ,,	_ ,			

COLLODION DIPPING BATHS.

Collodion Dipping Baths, of glass, fitted into a mahogany stand, with glass dipper, fig. 1256.

	mahogai	ny stai	id, wi	th gla	ass a	ipper, n	£0	3	0
1256	For plates	4 incl	nes by	3 in	ches	***	0	4	0
1257	"	5	22	4	27	***	0	6	0
1258	22	6	27	$\frac{61}{65}$	22		0	17	6
1259	22	$8\frac{1}{2}$	27	02	"		bo		

Collodion Dipping Baths, of gutta percha, with support and glass dippers, fig. 1260.



1265 Travelling Bath, with water-tight top, for plates, 9 in. by 7 in., with dipper, 14s. 6d.

e

1266 Ditto, for plates 10 in. by 8 in., ditto, 17s. 6d. 1267 Ditto, for plates 12 in. by 10 in., ditto, 20s.



Fig. 1260.

Glass Plates for the Collodion Process,

Best Patent Plate, with Ground Edges. Best Flatted Crown Glass. s. d. d. S. per dozen 0 10 per dozen a Size $2\frac{1}{2}$ inches by 2 inches, 0 10

10 in. by 8 in., 13s. doz.; 12 in. by 10 in., 19s.6d. doz.; and larger sizes to order. Sizes not in this list charged proportionately dearer.

Plate boxes for glass plates, see next page.

Plate Boxes, of white wood, for holding one dozen glass plates, fig. 1278.

-IDU 6						8.	d	(3-80)		8.	d.
1278	For plate	s 33	in. by	7 23	in.	1	6	1293	For plates $6\frac{1}{2}$ in. by $4\frac{3}{4}$ in.	2	6
1279	w asilte	4	"	3	, KITE	1	8	1294	, 7, 6,		0
1290	anag Wan	41						1295	, 8 , 6 ,	3	6
1291	"	5	"	4	"	2	0	1296	ol el	3	6
1292		6	"					1297	0	1	0
1202	22	U	"	U	22	4	U	1401	" " "	4	V





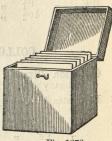


Fig. 1278.

LEVELLING STANDS.

Levelling stands for fixing glass plates perfectly level, so that developing or other solutions may be poured on to them without fear of its running off, and for use in supporting Daguerreotype pictures whilst being fixed by the solution of gold.

1298 Levelling Stand, iron foot, with adjusting screws, vertical rod, and ring, fig. 1298, 2s.

1299 Levelling Stand, triangular form, of bronzed brass, with three feet and six adjusting screws, for supporting any size plate up to $6\frac{1}{2}$ inches by $4\frac{3}{4}$ inches, fig. 1299, 7s. 6d.

1300 Ditto, for supporting the larger size plates, 8s. 6d.

1301 Levelling Stand, oval cast-iron foot, vertical rod, and triangular support, with adjusting screws, and binding screw to set it at any height, for supporting plates of any size up to 6 inches by 5 inches, 7s. 6d.

1302 Levelling stand, of glass, tripod form, triangular top, 2s.

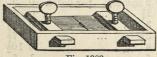


Fig. 1303.

Horne & Co.'s Reversing Frames, suitable for obtaining positive pictures from both glass and paper negatives, with jointed back, allowing the progress of the picture to be observed without disturbing its position.

1303	Size of gla	ass 6 inches	by 5 inches			13	6	£0.	5	6
1304	00 800000000000000000000000000000000000	71/2 "	$\frac{6\frac{1}{2}}{71}$ "	E OF ACT IN		305.681		0		
1305	"	$9\frac{1}{2}$,,	$7\frac{1}{2}$,,	MAID JEEL E	HEAT CLA	fort her		0	3 × 2 × 3 5	100
1306	"	$11\frac{1}{2}$,,	$9\frac{1}{2}$,,	D. 10 1 00	1000 53	34		0 1		

BRUSHES.

- Camel's Hair Brushes, for spreading solutions on paper, &c., small size, round form, in quill handles, 3d. 1307
 - Large size, in turned wood handles, 1s.
- Camel's Hair Pencil, flat form, fitted to wooden handles, without tin 1308 or other metal, for rapidly coating paper, &c., with solutions, 1 inch 1309 wide, Is.
- Ditto, $1\frac{1}{2}$ inch wide, 1s. 6d. 1310
- Buckle's brushes for applying solutions to paper, as recommended in 1311 Thornthwaite's Guide to Photography, consisting of a glass handle, 1312 silver wire hook, and a supply of cotton wool, 2s. each.
- Glass Stirring Rods, for mixing liquids, 6 inches long, 3d. each. 1316
- Ditto, 9 inches long and stouter diameter, 4d. 1317
- Glass Rods, with bent handles, for spreading solutions evenly on paper, without fear of contamination from impurities that sometimes arise 1318 from using hair brushes.
- For use to cover paper, 9 inches square, 1s. 1319
- For use to cover paper, 7 inches square, 1s. 1320
- Spirit Lamps, in brass, with screw cap, for use in travelling, 3s. 6d. 1321

SCALES AND WEIGHTS.

Balances, with steel beam, and sets of weights from two drams down to half a grain, in a box.

- Common beam, brass pan, in oak box, 3s.
- Superior beam, brass pan, in mahogany box, 5s. 1323 1324
- Superior beam, glass pans, in oak box, 7s. 1325
- Oval box end beams, with brass pans, in mahogany box, 7s. 6d.
- Oval box end beams, with glass pans, in mahogany box, 10s. 6d. 1326
- Oval box end beam balance, with brass pillar and glass shifting pan 1327 with drawer for weights and packing, £2 2s. 1328
- Filterer, in stoneware, for purifying and preserving water, half-gallon size, with brass tap, &c., complete, 10s. 1329

Glass Mortars and Pestles.

- Contents, 1 pint, 3s. 1331
- Contents, $\frac{1}{2}$ pint, 4s. 6d.
- 1332 Contents, 1 pint, 7s. Glass Funnels, for filtration and decanting. 1333
 - 2 inches diameter, 5d.
- 1335 4 inches diameter, 8d.
- Filters, ready cut, in packets of 100, for 1335 funnel, 7d. 1336
- Ditto, for 1336 funnel, 1s. 4d. 1337 1338





1339 Focusing Eye-pieces, in brass, with clamping screw and case, fig. 1339, 14s.

In order to obtain that extreme sharpness of outline so necessary in photographic pictures, it is absolutely essential that the focusing the object on the ground glass focusing frame be performed with extreme accuracy. The unassisted eye is of itself not sufficient to effect this, and the focusing eye-piece must be employed in the following manner:-Adjust the eye-piece so that it shall exactly focus the roughness of the focusing glass. To do this, carefully note the side of the focusing glass that is outwards when the frame is in its position in the camera, and take the focusing frame in the right hand, so that this side shall be nearest you; then take the focusing eye-piece in the left hand, having previously unscrewed the clamping screw a, and fix its broad end on the focusing glass, and observe if the roughness of the surface of the focusing glass appears sharp and defined to the eye looking into the eye end b. If such is not the case, shift the sliding tube up or down until the greatest amount of clearness is produced, and then tighten the clamping screw, so as to prevent any shifting taking place, and to insure the eye-piece remaining in perfect adjustment. To use it, the broad end c is placed on the ground focusing glass, and the lens or body of the camera shifted in or out until the greatest amount of sharpness of the picture is produced. At the suggestion of Mr. Horne, many persons use a focusing glass with a central polished spot about the size of a shilling, and having arranged the camera so that the principal object shall occupy the required position, the base of the eye-piece is placed over the central polished spot, and the body of the camera or the lens is shifted in or out until the maximum amount of sharpness of the picture when viewed through the eye-piece is produced. This central polished spot is of essential use where a focusing eye-piece is used, as, the image being received on a polished surface, and there viewed by the eye-piece, the indistinctness caused by the irregular refraction of the ground glass is entirely obviated. But it must be borne in mind, that the image viewed through the central spot by the naked eye cannot be used to determine when the best focus is obtained, and that this central spot is only useful when the focusing eye-piece is used.

1340 Focusing glass, in japanned tin, 2s. 6d.

1341 Instrument to count Seconds, with alarum, £3.

1342 Ditto, without alarum, £1 5s.

1343 Glass Carboy, enclosed in wicker basket work, for holding distilled water, 2 gallons, 4s. 6d.
Washing trays, see No. 1242.

1344 Glass Spirit Lamps, 2 ounces, fig. 1344, 1s. 6d.

1345 Ditto, 3 ounces, with screwed wick holder, 2s. 6d.

1346 Ditto, 4 ounces, ditto, 3s. 6d.

Photographic Lanterns, glazed with yellow glass, for use in preparing sensitive papers, &c., so as to protect the sensitive coating from being influenced by the light.

1347 Square form, with three sides glazed, and folding handle, 4s.

1348 Circular form, bull's eye front, with yellow glass circle and rotating body, so that the light may be partially or completely shut off if required, 12s,



Fig. 1344.



Fig. 1349.



Fig. 1358.

Graduated Glass	Measures,	conical form	, accurately divided.
-----------------	-----------	--------------	-----------------------

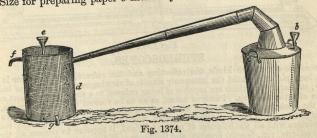
	Graduated Glass			I was the manual of the late	s. d.
1349 1350 1351	Contents 2 drams 1 ounce 2 ounces	1 3	1353	Contents 4 ounces " 6 " " 10 "	 2 0 2 6 3 0

Graduated Glass Measures, cylindrical form.

	Graduate	ed Glass	Mea	sur	es,	Cymnuic				, /tot	8. d.	
1358 1359 1360 1361 1362	Contents "			8. 1 1 1	d. 0 0 3 4		Content	s 8 0 16 20 32 40	" " " " "		2 6 4 6 6 7	3 6 0

Preparing Boards, on which paper is pinned, in order to apply sensitive coatings by a brush.

Size for preparing paper 7 inches by 6 inches, 2s. 6d. Size for preparing paper 9 inches by 7 inches, 3s. 1369 1370



Still, with refrigerator, for the distillation of water with the aid of a common fire, fig. 1374.

1-gallon size, in tin, £1 1s. 1375 2-gallon size, in tin, £1 7s. 6d.

1-gallon size, body of copper, £2 2s. 1376 1377

2-gallon size, body of copper, £3 3s. 1378

PHOTOGRAPHIC PICTURES.

1379 Photographic Pictures, comprising a great variety of views taken in all parts of the globe, architectural elevations, details and perspective views of the finest palaces, churches, &c., in Venice, Russia, France, and Rome; also, views in Egypt, Syria, and the East, &c. Some of these are of large size, measuring 18 inches by 14 inches, 14 inches by 12 inches; the prices vary according to size and excellence, from 3s. 6d. to 12s. 6d.

STEREOSCOPIC PICTURES.

- 1380 Stereoscopic Pictures, on paper, taken by photography, embracing views taken from some of the most remarkable places in Europe, 1s.
- 1381 Ditto, of superior character, having finest detail, and taken by superior artists. 1s. 6d.
- 1382 Transparent Stereoscopic Pictures, on glass, taken from albumen or collodion negatives, 3s.
- 1383 Ditto, of a very superior character, having the minutest detail exquisitely represented, and the general picture artistically produced, 6s.

The value of stereoscopic pictures taken by photography depends so much on the minute detail being preserved, and the careful selection of such spots as afford artistic pictures, the productions of superior artists always command a higher price than those of a mediocre character. This remark may tend to explain the variation in price of somewhat similar articles.

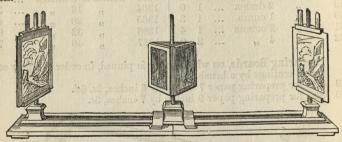


Fig. 1386.

STEREOSCOPES.

Stereoscopes are of two kinds, the reflecting and the refracting; the former is used to exhibit large pictures, whilst the latter only admits of viewing representations of buildings, scenery, statuary, &c., which are capable of being reduced to a small size without suffering any loss of artistic effects. Pictures taken, so as to be viewed by the stereoscope, afford one of the most interesting subjects which optical science affords, as two pictures of the same subject, properly taken at different angles, when viewed by the stereoscope, stand out as one picture with all the boldness of nature; indeed, it appears to possess all the attributes of solidity, viz., length, breadth, and thickness. If the pictures are taken from life, the faithfulness of the representation is so complete, that no description can convey a just idea of its perfection. The effect must be seen to be appreciated.

- 1386 Reflecting Stereoscope, for large views, with adjustment, so that either the pictures or mirror may be raised, depressed, or moved horizontally, as may be required, £2 2s.
- 1387 Photographic Pictures, in pairs, to be viewed by the refracting stereoscope in great varieties, 21s. per pair.







Fig. 1393.

- Refracting Stereoscope, in japanned tin, with one dozen printed diagrams, in box, serving to illustrate the optical facts displayed by this 1388 instrument, 6s.
- Refracting Stereoscope, in body, covered with paper, 3s. 6d.
- Refracting Stereoscope, in polished mahogany, with brass eye-1389 1390
- Refracting Stereoscope, in polished mahogany, with brass eye-pieces, 1391 glass bottom, and hinged flap, 16s.
- Refracting Stereoscope, in polished mahogany, with highly finished eye-pieces, glass bottom, and hinged flap, best make, of very superior 1392 appearance, £1 1s.
- Refracting Stereoscope, of the best construction, mounted on massive brass stand, capable of being raised, depressed, or inclined to any 1393 angle, so as to admit of the exhibition of stereoscopic pictures to a number of persons consecutively, without fear of any derangement of the instrument, £1 15s.

PORTABLE TENTS.

- Portable Tent, for operating in the open air with collodion or other sensitive compounds, consisting of a tripod stand 6 feet high, support-1394 ing a moveable and folding table, capable of being fixed 3 feet from the ground, with black cloth covering lined with yellow linen—the legs jointed so as to fold into lengths of 3 feet, which enables the whole to be packed into a small compass, £3 10s.
 - Ditto, with waterproof covering, square form, £6 6s.
- Pneumatic Plate-holder, fig. 1396, for holding glass 1395 plates whilst being cleaned, or during the application of 1396 collodion or albumen: to use it, the point of the forefinger is pressed on the brass top, and whilst the pressure of the finger is continued, the other end a is pressed on the glass plate; on removing the finger, the plate will be found to adhere and may be cleaned, or a sensitive compound applied; the application of the pressure will detach the plate from the holder; 2s, each,



Fig. 1396.

1396A Ditto, larger size, with lever, 5s.

PHOTOGRAPHIC PAPER,

Selected with the greatest care from the following eminent makers.

Canson Freres,

- 1397 Negative, size $22\frac{1}{2}$ inches by $17\frac{1}{2}$ inches, 3s. per quire.
- 1398 Positive, size $22\frac{7}{2}$ inches by $17\frac{7}{2}$ inches, 4s. per quire.

Whatman's or Holingsworth's.

- 1399 Negative, size 19 inches by 15 inches, 3s. per quire.
- 1400 Positive, size 19 inches by 15 inches, 3s. per quire. 1401 Towgood's, size 19 inches by 15 inches, 2s. 6d. per quire.

Turner's Photographic Paper.

1404 Negative, size 15 inches by 9 inches, 2s. 6d. per quire. 1405 Positive, size 15 inches by 9 inches, 1s. 6d. per quire.

German Paper.

- 1406 Negative, size 22½ inches by 17½ inches, 3s. per quire,
- 1407 Positive, size $22\frac{1}{2}$ inches by $17\frac{1}{2}$ inches, 4s. per quire.
- 1408 Horne & Co.'s Waxed Paper, size 17½ in. by 11¼ in., 7s. per quire.
- 1409 Horne & Co's Waxed Paper, IODIZED, size $17\frac{1}{2}$ inches by $11\frac{1}{4}$ inches, 15s. per quire.
- 1410 Portfolios for waxed paper, &c., $11\frac{1}{2}$ inches by $9\frac{1}{2}$ inches, 2s. 6d.
- 1411 Ditto, $17\frac{1}{2}$ inches by $11\frac{1}{4}$ inches, 3s. 6d.
- 1412 Horne & Co.'s Waxed Paper rendered sensitive, and ready for use, to keep ten days, size 11½ inches by 9 inches, 9s. per dozen.
- 1413 White Bibulous Paper, prepared free from iron or other impurities, 1s. 3d. per quire.
- 1414 Papier Joseph, 1s. per quire.

IODIZED PAPER.

Horne & Thornthwaite's Iodized Paper.

- 1416 Size 7 inches by 6 inches, 3s. per dozen.
- 1417 Size $9\frac{1}{2}$ inches by $7\frac{1}{2}$ inches, 5s. per dozen.
- 1418 Size 10 inches by 8 inches, 8s. per dozen. 1419 Size 15 inches by 12 inches, 12s. per dozen.
- 1420 Solution for iodizing paper, 1s. 6d. per ounce.
- 1421 Solution for iodizing waxed paper, 5s. per pint.
- 1422 Solution for rendering the above sensitive, 9s. per pint.

ALBUMENIZED PAPER.

- 1423 Horne & Co.'s Albumenized Paper, for printing positives in a very superior manner, by the use of which greater depths of tone and finer detail can be obtained than by any other paper hitherto introduced—size 11½ inches by 9 inches, with direction for use, 3s. 6d. per quire.
- 1424 Ditto, 17½ inches by 11½ inches, 7s. per quire.
- 1424A Ditto, 225 inches by 175 inches, 14s. per quire.

PHOTOGRAPHIC COLOURS.

	Box containing 7 colours, with brushes, gold and silver shell £0 7 6
1425	Box containing 1 one and 10 or
	teining 14 colours
1426	Ditto, containing 14 colours 0 15 0
,1110	91
1427	Ditto, " 21 "
112,	of all tints, 1s. per bottle.
1428	Separate colours, of all tints, 1s. per bottle.
1110	Camel's hair brushes, 1s. per dozen.
1429	Camel's hair brushes, 200 P
1120	2. 1:40
1430	Sable ditto, 8s. ditto.
1400	Sable ditto, 8s. ditto. Elastic bottle, for removing dust from the plate, small size, 2s. 6d.
1431	Elastic bottle, for removing
1401	

FRAMES-FOR MOUNTING PHOTOGRAPHIC PICTURES.

The gilt mats or openings of the ormulu frames, the papier maché frames, the morocco cases and frames, and passe partouts, are of three shapes: the morocco cases and frames, and passe partouts, are of three shapes: the dome, similar to fig. 1434; the oval, similar to fig. 1438; and the cushion-shape, like fig. 1442. Our customers are recommended to state which shape they prefer when giving their orders for this article.



Fig. 1434.



Fig. 1438.



Fig. 1442.

ORMOLU FRAMES.

The frames are made of a metal closely resembling gold, in the Louis XIV. style of pattern, with either dome, oval, or cushion-shaped gilt mats, with best white glass and suspension ring, fig. 1434, and are intended for holding pictures either on metal, glass, or paper.

	for holding	nictur	es eithe	r on 1	metal,	grass	s, or pa	ber.			
	for noturing	P	01 :	hoa h	0 in	ahaa			£0	1	6
W. Carre	For holding p	icture	S Za IIIC	nes o	y 2 111	CIICS	•••	n Ernen	0		0
1434	Tor 2	- 11	34	"	24	22	•••	•••	0		0
1435	"		41	22	$3\frac{1}{4}$	25		•••	0	3	0
1436))	"	5		4	The LE			0	5	0
1437	"	"	6	"	5	"			0	10	0
1437*	,,	"	0	27		"			The state of the s		
1430											

BLACK PAPIER MACHE FRAMES.

These frames are made of papier maché with a black ground, having an ormolu or imitation gold chased opening, with dome, oval, or cushion-shaped mats and suspension ring, fig. 1438, and are well adapted for receiving Daguerreotype or collodion pictures.

1438	For holding	ng picture	s 21 in	ches by	2 inches	coures.		Ditto, ed	1426
1439	27	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	$3\frac{1}{4}$	ones by	$2\frac{3}{4}$,		35	£0	2 6
1440	"	"	44	,,	$\frac{-4}{3\frac{1}{4}}$ ",	In loca	moleo :	0	4 0
1441	"	"	5	.57	4 ,,	Book or	deled		4 6

GUTTA PERCHA FRAMES. (Two Patterns.)

These gutta percha frames consist of an elegant designed edge in gutta percha (mounted, for strength, on wooden frames), the dark colour of the material affording a striking contrast to the predominant white of some pictures, fig. 1442.

1442 For holding passe partouts which contain pictures 2½ in. by 2 in., 1s.

For holding passe partouts which contain pictures $3\frac{1}{4}$ in. by $2\frac{3}{4}$ in. ls. 3d:
For holding passe partouts which contain pictures 4 in. by 3 in., 1s. 6d.

1444a For holding passe partouts which contain pictures 4 in. by 3 in., 1s. 6d.

1444b For holding passe partouts which contain pictures 6 in. by 5 in., 2s. 6d.

PASSE PARTOUTS.



Fig. 1445.

The frames are made of cardboard, covered with glass, coloured or ornamented in a variety of patterns. Fig. 1445 is a representation of the article; the ground in one kind is dark brown, with an edge of dead gold around the opening, surrounded by a thin circlet of burnished gold; in another kind, the ground is white enamel, the opening of dead gold, surrounded by a rim of black, and around the whole a circlet of burnished gold; in a third kind the ground and opening are of dead gold, with an inner fillet and outer circlet of burnished gold.

	Dan Borne	For holding Pictures on Plates.												
	PER DOZEN.	$2\frac{1}{2}$	by 2	31 h	$y_{\frac{23}{4}}$	441	by 34	51	oy 4	61	by 43	8½ by	$\sqrt{6\frac{1}{2}}$	
1445	Passe Partouts, dark ground, with bronze		<i>a</i> .	8.	d.	8.	d.	8.	d.	8.	d.	8.	d.	
	mountings, and gold line.													
	oval, dome, or cushion shape	9	0	2	6	2	3	5	C	6	0	10	•	
1451	Passe Partouts, white ground, with bronze			~		o,	ย	0	0	0	9	12	U	
	mountings, and gold line.		46											
	oval, dome, or cushion				MA									
1452	Passe Partouts, dead gold	3	0	3	9	4	6	7	6	9	6	18	0	
	ground, with burnished		5		B 6		atte			959				
	gold lines, oval, dome, or cushion shape			ba	8 8		933		igar	di	W			
1453	Passe Partouts, white	7	9	8	6	9	6	15	0	20	0	42	0	
	cardboard ground with						3.2.1							
	white bevel and gilt mats, extra wide margins, ex-	G	0		1		55							
	ceedingly neat		100		L	7	6	9	0	10	6	16	0	

FRAMES FOR PASSE PARTOUTS.

FRAMES FOR PASSE THEFT										
For holding Passe Partouts that contain pictures of the following sizes.										
PER DOZEN.	$\begin{array}{c} 2\frac{1}{2}\operatorname{by}2\\ s.\ d. \end{array}$	3½ by 2¾	41 by 31	5 by 4 s. d.	$6\frac{1}{2}$ by $4\frac{3}{4}$ s. d.	$8\frac{1}{2}$ by $6\frac{1}{2}$ s. d.				
1456 Rosewood frames, renais- sance pattern, square form	5 0	5 6	6 6	8 0	90	14 0				
1457 Rustic oak, richly orna- mented square shape	12 6	13 0	14 0	18 0	26 0	37 6				
1458 Rustic oak, richly orna mented, oval shape	12 0	14 0	16 0	20 0	30 0	40 0				
1459 Gilt frames, richly carved cushion or oval shape	30 0	36 0	42 0	48 0	54 0	66 0				
		-			-					

MOROCCO CASES.

Morocco Leather Cases, fig. 1464, are lined with silk or cotton velvet, fitted with dome, oval, or cushionshaped gilt mats, best white glass and hinged cover, for receiving and preserving Daguerreotype, Talbotype, and collodion pictures. Sizes to receive Plates.



Fig. 1464.

	Sizes to receive							
NATES.	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$							
1460 Morocco leather Cases, fig. 1464, with embossed leather top, lid lined with embossed cotton	14 LL, consisting of healty gives deep shawed or ner l							
volvet fitted with mats and	4 0 6 6 10 0 16 0 25 0							
glasses per doz. 1461 Ditto, gilt edges to rim, per doz.	4 6 7 6 11 0 17 6 27 6							
1462 Morocco leather Cases, with embossed leather top and bottom, lid lined with embossed silk	0 0 0 00114 88							
velvet, gilt edges to rim, mats and glasses, per doz.	6 6 10 6 16 0 27 6 45 0							
1463 Morocco leather Cases, extra best quality, with mats and glasses per doz	1 9 7							

MOROCCO FRAMES.

Morocco Leather Frames, fig. 1475, lined with velvet, gilt edges, fitted with dome, oval, or cushion-shaped gilt mats, and best white glass, for containing Daguerreotype. Talbotype, or collodion pictures

type, Talbotype, or collodion pictures. 1465 For plates $2\frac{1}{2}$ inches by 2 inches per dozen £0									CVII24		
	type, 1	a ol in	ches b	v 2 in	ches .	1	per dozen	£0	3	0	
1465	For plate	25 42 11	CHOS	$2\frac{3}{4}$.8	5. 0	0	4	3	
1466	, ,,	34	. 99	24	27	0	2"	0	c	6	
1467	20	44	"	34	22		22	U	0	0	
		5	22	4	22		"	0	12	0	
1468	29	61	"	43				0	17	0	
1469	22	02	"	-4	"		"				



Fig. 1475.

GILT MATS.

Gilt Mats, of superior quality, of oval, dome, or cushion shapes, for fitting into morocco cases or frames.

1471	For plates	$2\frac{1}{2}$	inches by	2 ir	ches	1			per do	zen £)	0	8
1472	1 0 %	$3\frac{1}{4}$	"	$2\frac{3}{4}$	"		•••	1	"				0
1473 1474	"	44		$3\frac{1}{4}$	"		•••	•••	"	. ()	1	6
1474	27 -	0	,,		"		•••	• • • • • • • • • • • • • • • • • • • •	")	2	9
14/0	"	$6\frac{1}{2}$	"	$4\frac{3}{4}$	"		•••	•••	"	0)	5	6

GLASS PLATES.

Glass Plates, for fitting into morocco cases, suspension frames, &c., with ground edges.

1476	To fit cases,	for plates	$2\frac{1}{2}$	inches b	y 2 ir	ches	per	dozen a	£0	0	6
1477	"	"	$3\frac{1}{4}$	"	$2\frac{3}{4}$	"		"			
1478 1479	"	"		"		"	•••	"	0	1	0
1480	"	"	5	"	4		depair they	"	Market I		4
1400	"	"	$6\frac{1}{2}$	"	$4\frac{3}{4}$	"	c	"	0	2	0

GERMAN MATS.

The German Mat is an elegant improvement on the common mat, No. 1471, consisting of highly gilt metal, with an ornamental border and exterior deep chased corner pieces.

ening. Shape of
opening.
15 dome.
15 oval.
$2\frac{1}{4}$ dome. 1 oval. $1\frac{3}{4}$ oval.

1489 **Preservers.** These are frames composed of thin gilt metal, having an elegantly chased beading on the edge, and are employed for the purpose of keeping the glass plate of the case, the mat, and the glass plate on which the picture is taken, in close contact; this prevents the admission of dust, and forms a chaste ornament when the picture is fitted into a morocco case.

Size.	$2\frac{1}{2}$ by 2in.	$3\frac{1}{4}$ by $2\frac{3}{4}$	4½ by 3½	5 by 4in.	$6\frac{1}{2}$ by $4\frac{3}{4}$		
Price per dozen	s. d. 0 9	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	s. d. 1 8	s. d. 3 0	s. d. 4 6		

ESTIMATES OF SETS

OF

PHOTOGRAPHIC APPARATUS.

FOR THE COLLODION PROCESS ONLY

1498 A Complete Set of Photographic Apparatus for taking Portraits and Views, $4\frac{1}{4}$ inches by $3\frac{1}{4}$, and under, price, in a packing case, £3.

This set is adapted for taking positives on glass as described in the tenth edition of Thornthwaite's Guide to Photography, at page 25, and consists of a double achromatic lens (tested), mounted in brass, with rack and pinion adjustment; expanding camera with camera back; two plate holders and focusing glass, in frame; mahogany tripod stand, with brass top and screw to fix the camera; box of scales and weights, from 2 drams to 1 grain; porcelain washing tray; gutta percha bath and dipper; filtering paper and glass funnel; graduated measure; one dozen glass plates in box; bottles containing 6 oz. of nitrate of silver solution, ready prepared for the bath, 3 oz. positive collodion, 1 oz. iodizing solution, 1 pint of developing solution, 1 oz. cyanide potassium, and 1 oz. of crystal varnish; and directions for use.

1499 A Complete Set of Photographic Apparatus for taking Pictures, $6\frac{1}{2}$ inches by $4\frac{3}{4}$ inches and under, price in a packing case, £5 5s.

This apparatus is of a similar character to No. 1498, but capable of taking larger pictures and more effective in dull weather.

A Complete Set of Photographic Apparatus for taking Portraits and Views, 4 inches by 3 inches and under, price, in a travelling case with lock and key, £7 7s.

This set is adapted for taking portraits and views either by the positive process on glass, as described in Thornthwaite's Guide to Photography, "tenth edition," page 25, or by the negative process described at page 38, and for the printing of positives from such glass negatives as described at page 63. The lenses in this set are of Horne & Thornthwaite's own make, No. 1068, in this list, the camera is of mahogany, French polished, and the apparatus generally of a superior character.

- Set of Photographic Apparatus, same as No. 1499, but fitted with a portrait lens, No. 1071, of Horne & Thornthwaite's own manufacture, £10 10s.
- 1502 A complete set of Photographic Apparatus, adapted for taking portraits or views up to 5 inches by 4 inches, with best French polished expanding camera and double combination of achromatic lenses of our own make, mounted in brass, with rack and pinion adjustment, camera stand, and all the requisite apparatus and chemicals, £15 15s.

CONTENTS:—Of a similar character to No. 1501, but the camera is of the best manufacture, and constructed after the latest improvements. The double combination of achromatic lenses is our own make, having its chemical and visual rays perfectly coincident. The apparatus is of a superior quality, and the chemicals in larger quantities.

FOR THE COLLODION AND PAPER PROCESSES.

A complete set of Photographic Apparatus, adapted for taking portraits by the collodion process, of any size up to 5 inches by 4 inches, and views by either the waxed paper and calotype process, up to 7 inches by 6 inches, with best make folding camera and leather knapsack for holding it, double combination of achromatic lenses for portraits and single lens for views, of our own make, mounted in brass, with rack and pinion adjustment, camera stand, and all the requisite apparatus and a supply of chemicals, positive and negative papers, &c., packed in a strong travelling case, £21.

CONTENTS:—A folding camera, of the best construction, with adjusting front, and one single back or exposing frame, for taking collodion pictures, 5 inches by 4 inches, and 4 inches by 3 inches, and one double back for paper, 7 inches by 6 inches; A double combination of achromatic lenses, of our own make, mounted in brass, with rack and pinion adjustment, and single lens for taking view; Leather knapsack for containing the camera; Camera stand, of the best construction; Buckle's brush; Set of scales and weights; Cripod levelling stand; Gutta percha bath, mounted on mahogany foot, with glass dipper; Tripod levelling stand; Gutta percha bath, mounted on mahogany foot, with glass dipper; One dozen glasses of each size, 5 inches by 4 inches, and 4 inches by 3 inches, and boxes to hold them; Reversing frame, for printing positives from negative impressions; Two graduated glass measures; Glass rod; Preparing board, on which to pin salted paper whilst applying nitrate silver solution; Two porcelain washing trays; A good supply of negative, positive, albumenized, and filtering papers, and of the following chemicals, &c.: nitrate potassium, iodized collodion, chloride of barium, hyposulphite of soda, pyrogallic acid, empty bottles for solutions, and packing-case to contain all the apparatus.

A complete set of Photographic Apparatus, adapted for taking portraits by the collodion process, of any size up to 6 inches by 5 inches, and views by the calotype or waxed paper process, 9 inches by 7 inches, with best make folding camera, double and single backs, double combination of achromatic lenses of our own make, mounted in brass, with rack and pinion adjustment, the front lens capable of being used for views as described at page 92, camera stand, and all the requisite apparatus and chemicals, packed in a strong travelling case and leather knapsack to contain the camera and backs, £26.

Contents:—Portable folding camera, of Spanish mahogany French polished, with two apertures, the anterior one for taking portraits, and the posterior one for views, with one double and one single back or exposing frame, focusing glass in frame. The front of this camera has a double adjustment to vary the proportion of the foreground and sky in a picture; a double combination set of achromatic lenses of our own make, mounted in brass, with rack and pinion adjustment; Leather knapsack, for holding the camera; Buckle's brush; Balance and set of weights; Two glass rods and preparing board; Reversing brush; Balance and set of weights; Two graduated glass measures; Glass funnel; frame; Two porcelain washing trays; Two graduated glass measures; Glass funnel; frame; Gutta percha bath, on mahogany foot, and glass dipper; Gutta percha dish; One dozen glasses of each size, 5 inches by 4 inches, and 4 inches by 3 inches, and boxes to hold them; Tripod camera stand, and a good supply of positive, negative, sulphite soda, distilled water, iodide potassium, gallic acid, pyrogallic acid, accite acid, ammonia, cyanide of potassium, iodized collodion, iodide silver, protosulphate iron, negative varnish, and empty bottles for solutions—The apparatus and chemicals packed into a strong packing case.

1505 A complete set of Photographic Apparatus, adapted for taking portraits by the collodion process, of any size up to 8 inches by 6 inches, and views by the calotype or waxed paper process, 9 inches by 7 inches, with best make folding camera, double and single backs, a

FOR THE COLLODION AND PAPER PROCESSES (continued).

double combination of achromatic lenses, of full size for portraits, and a single achromatic lens for views, both of our own make, mounted in brass, with rack and pinion adjustment, best camera stand, all the requisite apparatus, positive and negative paper, and chemicals, packed in a strong travelling case and leather knapsack to contain the camera and backs, £36.

CONTENTS: -A folding camera of the best construction, with focusing glass in frame; One single back and frames for collodion plates, 8 inches by 6 inches, 6 inches by 5 inches, and 5 inches by 4 inches, and one double back for views of paper, 9 inches by 7 inches; a full size double combination of achromatic lenses for portraits, and single achromatic lens for views, both of our own make, mounted in brass, with rack and pinion adjustment, Leather cases, for containing the camera; Buckle's brush; Set of scales and weights; Two glass rods; Reversing frame, for printing positive pictures from negative impressions; Two porcelain washing trays; Preparing board, on which to pin salted paper, to apply nitrate silver solution; Two graduated glass measures; Glass funnel; Tripod levelling stand; Gutta percha bath, mounted on mahogany stand, and glass dipper; One dozen each size glass plates, 8 inches by 6 inches, 6 inches by 5 inches, and 5 inches by 4 inches, and boxes to contain them; One gutta percha washing tray; Folding camera stand; and a full supply of negative, positive, albumenized, and filtering papers, and of the following chemicals: nitrate silver, iodide potassium, gallic acid, pyrogallic acid, glacial acetic acid, negative varnish, cyanide of potassium, ammonia, iodized collodion, muriate of ammonia, protosulphate iron, iodide silver, hyposulphite soda, &c.—The whole of the apparatus and chemicals packed in a strong packing case.

FOR THE PAPER PROCESS ONLY.

1506 A complete set of Photographic Apparatus, for taking pictures on paper by the calotype or waxed paper process, of any size up to 5 inches by 4 inches, and containing all the necessary apparatus and chemicals, £5 5s.

CONTENTS:—A mahogany camera, French polished; Focusing glass in frame, and exposing frame; Achromatic lens, mounted in brass, with rack and pinion adjustment; Porcelain washing tray; Set of scales and weights; Reversing frame, for producing positive pictures from negative impressions; Graduated glass measure; Two photographic brushes; Tripod stand, for supporting the camera; Glass funnel; Preparing board; Glass rod; A supply of negative, albumenized, filtering, and waxed paper; and the following chemicals: nitrate silver, acetic acid, iodide silver, gallic acid, hyposulphite soda, ammonia-nitrate of silver, chloride of barium, and bottles for solutions—The whole enclosed in a strong packing box.

1507 A complete set of Photographic Apparatus, for taking pictures on paper by the calotype and waxed paper process, of any size up to 7 inches by 6 inches, and containing all the necessary apparatus and materials, £10 10s.

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by

Contents same as No. 1506, but with camera of more perfect construction and of larger size, the lens of larger diameter, and apparatus and chemicals of a more extensive character.

1508 A complete set of Photographic Apparatus, for taking pictures on paper of any size up to 9 inches by 7 inches, and containing all the requisite apparatus and materials, £17 17s.

THE SET CAN BE HIGHLY RECOMMENDED. The Camera is of the most perfect construction, the lens of our own construction, and the whole is conveniently arranged for travelling.

Sets of Daguerreotype Apparatus, from £10 to £100.

PURE CHEMICALS AND PREPARATIONS FOR PHOTOGRAPHIC PURPOSES. Honey, purified, 6d. per ounce.

Acid, acetic, glacial, pure, for the paper process, 1s. per ounce.

acetic, glacial, for the collodion process, 6d. per ounce.

acetic, for ditto, 4d. per ounce.

formic, 6d. per ounce. .. gallic, 1s. 6d. per ounce.

Ammonia, pure, 2d. per ounce.

Ammonium, bromide, 5s. per ounce.

Barium, chloride, 2d. per ounce.

Bromide of lime, 2s. 6d. per bottle.

iodide, 4s. per ounce. Calcium, bromide, 5s. per ounce.

Charcoal, animal, pure, 6d. per ounce.

per packet. Chloro-bromide of lime, 3s. 6d. per bottle.

Collodion, 9d. per ounce.

cotton wool, best, 3d. per ounce, 3s. per lb. Æther, sulphuric, rectified, 6d. per ounce. Gold, chloride, in bottles, 4-dram, 3s.

1-dram, 5s. 1-dram, 8s. 6d. Gold, salt of, Sel d'or, 3s. 9d. per bottle. solution, for darkening positives, 6d.oz.

Magnesia, nitrate, 6d. per ounce. Mercury, pure distilled, 3d. per ounce, 2s. 6d. per lb. pyrogallic, 10s. per oz., 1s. 6d. per dram. sulphuric, pure, 2d. per ounce. Naphtha, for lamp, 1s. 6d. per pint. Potassa, nitrate, powdered, 1s. per lb. muriate, free from iron, 3d. per oz. Potassium, bromide, pure, 2s. per ounce. iodide, variable, 2s. 6d. per oz. iodide, variable, 4s. per ounce. Rottenstone, prepared, 6d. per ounce. Rouge, 6d. per ounce.

Baryta, nitrate, pure, 4d. per ounce. Bromide of cadmium, 5s. per ounce. Bromine, in 1-ounce bottles, 2s. 6d. chloride, prepared for use, 6d. oz. Cadmium, bromide, 5s. per ounce.

per ounce. nitrate, crystallized, 4s. per ounce. nitrate, fused, 4s. 6d. per ounce. iodide, 6s. per ounce. Soda, hyposulphite, 10d. per lb., 1d. per oz. Sodium, chloride, pure, 3d. per ounce. prepared, for polishing plates, 1s.

"

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fluoride, 1s. per ounce. Solution for iodizing waxed paper, 5s. pint. Solution for rendering waxed paper sensi-

tive, 9s. per pint. Sugar of milk, 3d. per ounce. Test paper, Clark's, 6d. per book. Tripoli, prepared, for polishing, 6d. per oz. Varnish, chloroform, 1s. per oz. Water, distilled, pure, 6d. per gallon.

White wax, 3s. per pound.

Iodine, chloride, 5s. per ounce.

Iron, iodide, 1s. per bottle of 4 dr.

pure, re-sublimed, 2s. per ounce.

cyanide, 4d. per ounce.

iodide, variable, 2s. per ounce.

iodide, in iodide of potassium, 1s. 6d.

fluoride, 2s. per ounce.

Silver, ammonio-nitrate, 1s. per ounce.

chloride, 6s. per ounce.

iodide, 6s. per ounce.

,, protosulphate, pure, 1d. per ounce.

Lamp black, prepared for buffing, 1s. per pkt.

The foregoing prices are subject to variation.

Horne & Thornthwaite's Crystal Varnish, for protecting collodion pictures from injury during printing, affording an extremely hard and transparent covering, which dries in a few seconds, and is very easily applied—price, with directions, 4 ounces in bottle, 1s. 6d.

HORNE & THORNTHWAITE'S POSITIVE COLLODION.

This collodion, when iodized with the positive iodizing compound, yields positives on glass which possess the strongest contrasts of light and shade. The whites are of a pearly hue, without metallic lustre; the middle tints finely delineated; and the deep shades clear and transparent. Price 9d. per ounce; Iodizing Solution for ditto, 9d. per ounce.

HORNE & THORNTHWAITE'S NEGATIVE COLLODION.

This collodion when iodized with the negative iodizing compound, is adapted for the production of negative pictures on glass; it possesses extreme toughness, yields deep-toned negatives, with well-developed middle tints, and is extremely sensitive and constant in its action. Price 9d. per ounce; Iodizing Solution for ditto, 9d. per ounce.

As collodion, when iodized, does not keep good for more than three weeks or a month, it is advisable to have the iodizing solution separate in those cases where the whole stock ordered would not be used in that time; when separate, these compounds keep any length of time.