

PHOTOGRAPHIC
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MAKERS.

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5th Edition.

JAMES A. SINCLAIR & CO., LTD.

SPECIAL
NOTICE.

Goods advertised by
any Manufacturer or
Dealer may be ordered
from us at list prices.

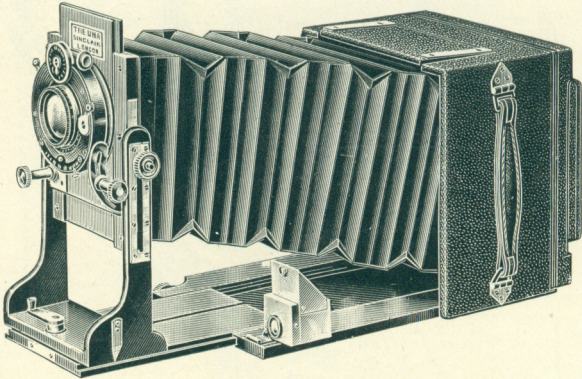
In the case of High-class
Cameras and other Apparatus,
we test before forwarding, and
customers therefore have an extra
guarantee that the goods are equal
to makers' specification.

54, HAYMARKET,
LONDON, S.W.

CONTRACTORS TO H.M. GOVERNMENT.

The SINCLAIR "UNA"

THE ONLY PERFECT UNIVERSAL CAMERA.



Showing Standard "Una" with Long Extension and the Double Rising Front.

**The Sinclair "UNA" Camera is THE BEST
of its Class,**

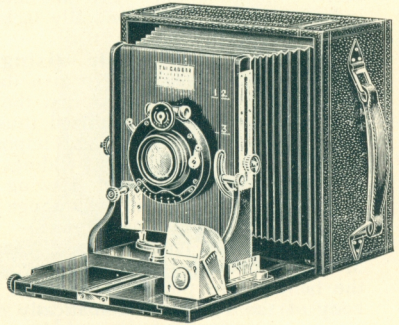
BECAUSE—

- IT is suitable for every class of work.
- IT will take short, medium or long-focus lenses.
- IT may be fitted with any shutter.
- IT has great latitude in all movements.
- IT is constructed on practical and scientific lines.
- IT has a very great rising front.
- IT has a central swing front.
- IT has a revolving back.
- IT is simple in construction and use.
- IT is suitable for Telephoto work.
- IT can be fitted with any Changing Arrangement, Dark Slides, Changing Box, Roll Holder or Premo Film Pack.
- IT is made of the best materials and with the perfection of workmanship.

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The "Sinclair UNA" Camera *(continued)*

IS THE BEST
FOR
HAND or STAND.



The "Una" Camera with tilting
finder, held level.

It is a fallacy that, provided the photographer has a good lens, anything will do in the way of a camera. The reverse is actually the case, for a good lens on an indifferent camera may be compared to a good bullet in a bad gun. A good lens is an instrument of precision, and a carefully constructed camera is necessary to utilise its good qualities. In the "Sinclair Una" it has been our aim to make an instrument as perfect as possible for every class of work, and without those useless movements which are crowded into every cheap camera, making them entertaining puzzles for beginners, but such as the expert does not wish or require. The construction of the "Una" Camera is of the utmost simplicity. Moreover, it is very compact, but we have not reduced its size at the expense of efficiency. The weight of the $\frac{1}{2}$ -plate "Una" is not more than that of many well-known $\frac{1}{4}$ -plate cameras. Every instrument being carefully and exactly scaled, it is particularly adapted for the best work, and will answer the most exacting requirements of the Amateur or the Professional. The "Una" Camera is a scientific instrument, and not a toy. While we strongly recommend the new "N.S." Accurate Shutter wherever it can be adapted to the lens, yet any form of diaphragmatic or focal plane shutter can be fitted, and almost any lens used. In cases where the photographer finds any difficulty in estimating distances, the camera may be held to the level of the eye and accurately focussed on the hooded ground glass without the necessity for a focussing cloth. The level, finder, and focussing scale are arranged so that they are easily and simultaneously seen, an important point in hand-camera work.

The Sinclair "UNA" Camera is the most perfect instrument of its type, and is the outcome of many years' use and intimate acquaintance with the leading makes of hand and stand cameras. It is not easy to judge cameras from makers' catalogues, and we would impress upon intending purchasers of cameras **to see a "UNA" before buying any other make.** It is in essential detail work that a "Una" is so much better than any other instrument.

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SOME DETAILS OF THE "UNA" CAMERAS.

The Sinclair Camera Front is solidly made with a broad firm base, which can be instantaneously clamped to the baseboard in any desired position and with absolute rigidity—an important, and, indeed, essential point generally lacking in instruments of somewhat similar design.

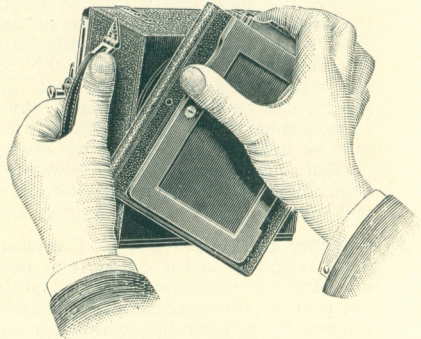
The Sinclair Double Rising Front is a peculiar feature which we have designed to give the maximum of movement in a new and simple fashion, so that the wide angle covered by modern anastigmat lenses may be utilized, thus dispensing with the unnecessary swing back. This great and important improvement enables the operator to photograph tall buildings without stopping down the lens to the same extent as when a swing back is used. By means of the double rising movement great range is secured, the amount of rise in the various sizes being as follows:—

$\frac{1}{4}$ -plate, $2\frac{1}{2}$ inches. 5×4 , 3 inches. $\frac{1}{2}$ -plate, 4 inches.

Moreover, not only is this rise gained, but it is of practical use, because the bellows are purposely designed very deep in the front, and the body of the camera automatically opens as the rising front comes into operation.

The Sinclair Central Swing Front. Providing a camera has sufficient rise to the front, a swing back or swing front is rarely needed with modern lenses because of the large angle they cover. The swing back as generally fitted is objectionable, as it prevents the use of the focussing scale through the lens having to be racked further back when it is brought into play. The Sinclair central swing front has all the good points of the swing back, and has the important advantage that it may be used without seriously upsetting the focus of the lens, because it is arranged so that it comes in the optical centre of the lens panel. Moreover, it is quite distinct from the rising front movement, and need not be brought into play unless desired. Cameras can be specially made with an additional swing back at cost of 20/- extra.

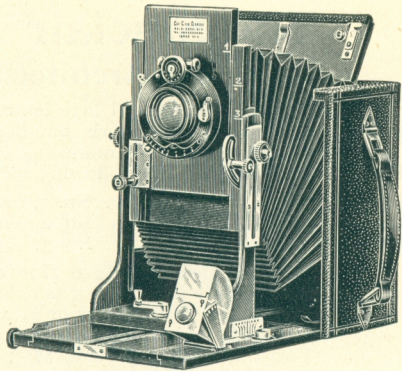
The Sinclair Revolving Back. This very important improvement on the old reversing back will be generally appreciated. The plate can at once be changed from the vertical to the horizontal position without removing the back of the camera, and this may be done while the plate is exposed in the slide ready for use. The back of the camera with the slide revolves on a light-tight turntable.



The "Una" Camera, showing revolving back as fitted to all patterns.

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The Sinclair "UNA" Finders.—With all size cameras either brilliant or ground-glass finders are supplied. The Brilliant Finder has a reversible mask and is constructed so that the angle is correct for either a 5-inch lens on a $\frac{1}{4}$ -plate camera or a 6-inch on a 5×4 camera. For exact work, however, we recommend a special tilting ground-glass finder with indicating scale on its side marked to correspond with a scale on the rising front of the camera. Such finders permit of as accurate work being done while the camera



The "Una" Camera with tilting finder in action and front raised to correspond.

is held in the hand as would be possible when focussing on a stand. The method of use is as follows: the camera being held level as shown by the level near the finder, the finder is tilted till the exact view required is seen in it. A scale at the side of the finder shows how much the front of the camera must be raised in order that the view on the plate may exactly correspond with that seen in the finder. These finders, although not giving the definition or illumination of the brilliant finders, yet on account of their superior accuracy are advisable. The extra cost is 10/6, including scaling and marking the rising front.

The Ground-Glass Screen is covered with a Focussing Hood so arranged that it can be removed in a moment should a focussing cloth or focussing glass be preferred.

The Levels.—Behind the finder and near the focussing scale two tube levels arranged in the form of a T are inserted, and it is convenient to keep an eye on these when viewing the image in the finder. In the case of the De Luxe Model a circular level is used.

The Focussing Scales.—These are of real ivory and are divided into yards and not into an odd number of feet, which are exceedingly difficult to judge. 2, 3, 4, etc., yards correspond to 2, 3 or 4 good strides, and are easy to estimate, but such distances as 7, 11 and 13 feet, which are often used, are very confusing.

Depth of Focus Scales.—Such scales can be fitted, and consist of an ivory plate in the centre of which is an ∇ which takes the place of the usual focussing pointer. On each side of this arrow are lines indicating the depth of focus obtained when using various stops and based on a point being rendered as a circle of confusion not exceeding $\frac{1}{100}$ th of an inch. These scales show the best position on which to focus when taking any scene with any stop, and are a great help in hand-camera work. They cost 5/6 each extra.

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The Sinclair "Una" for Architecture.

The "Una" Camera will take lenses of such short focus as we usually sell for wide-angle work, but not those extreme wide-angle lenses which give results more interesting as curiosities than as pictures. The wide-angle lenses of the following foci are recommended:—

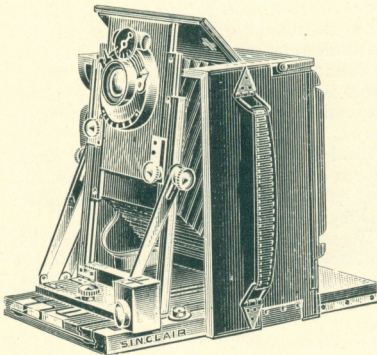
$\frac{1}{4}$ -plate	No. 1, Series V., Zeiss $3\frac{1}{4}$ in.	£3 4s.
5×4 or 9×12 cm.	No. 2, Series V., " $4\frac{1}{4}$ in.	£3 4s.
$\frac{1}{2}$ -plate	No. 3, Series V., " $5\frac{1}{2}$ in.	£4.

The **Sinclair Double Plate Holders** are perfectly made pull-out slides, exceedingly light as well as light-tight. The shutters are of such quality that they do not crack or break. Each slide is fitted with auto-catches which obviate double exposure. Prices are $\frac{1}{4}$ -plate, 10/-; 5×4 and Post-Card, 12/-; $\frac{1}{2}$ -plate, 14/-; 7×5 , 15/- each. Tropical and De Luxe Models, 2/- each extra.

The Sinclair "Una de Luxe."

For all special requirements.
Architectural Work.

For extreme Wide-angle
For extreme Long-focus Tele-photography.



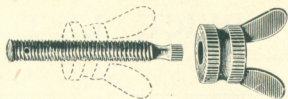
Showing "Una de Luxe" with very short-focus lens and double rising front in action. The Swing is now made as in Standard "Una."

Although we contend that the **Standard "Una"** is the best universal camera, and that it will answer every requirement of the great majority of workers, yet at the request of our friends we have introduced another pattern which will take lenses of any focus, so that it is at once suitable for extreme wide-angle work, as well as those branches of Telephotography where an abnormal camera extension is required. In the **Sinclair "Una de Luxe"** we have embodied all the features which have distinguished the "Una," and at the same time added a **Triple Extension Movement and Double Rack Movement to Base.**

These additions make the **Sinclair "Una de Luxe"** absolutely unrivalled for any kind of photographic work, because they are all obtained without complexity of construction.

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The Sinclair Tripod Screw.



The Sinclair Screw supplied with each "Una" Camera removes all difficulty in attaching camera to tripod stand. The screw fits into the camera at the proper distance, a stop preventing it going too far. The camera with the screw attached is then put on the stand and a fly-nut is easily screwed on underneath. It is a simple thing, but adds to the photographer's comfort. Standard $\frac{1}{4}$ -inch Whitworth Screw.

Extra Screws, price 1/0 each.

Types of the Sinclair "Una" Cameras.

The Sinclair Standard "Una."—This is the most generally useful model, and its range of movements is more than sufficient for most workers. It is made of polished mahogany covered with the best black hard-grain leather.

The Sinclair Tropical "Una."—This is identical with our standard model, but is made of selected close-grain Spanish mahogany, and is brass-bound and polished instead of being leather-covered. We have given up the use of Teak for tropical models because of its liability to crack in very hot and dry climates. Still, teak cameras can be made for moist climates if desired.

The Sinclair "Una de Luxe" is for certain special kinds of work, particularly copying and tele-photography. For copying there are advantages in a back focussing movement, and the triple extension will appeal to the worker with specially long-focus lenses. It is made in the following styles and the price is the same in all cases:—

Style A.—Polished mahogany and covered with hand-sewn brown leather
 Style B.—Ebonized mahogany and covered with hand-sewn black leather
 Style C.—Export model. Spanish mahogany polished and brass-bound.

The prices of all styles of the "de Luxe" model are the same.

TYPICAL TESTIMONY.

Messrs. Sinclair & Co.

MALTA,
4th August, 1911.

DEAR SIRS,

About a year ago I purchased one of your quarter-plate "Una" Cameras fitted with Goerz Dagor Lens, and this outfit has given me such complete satisfaction that I feel impelled to write and tell you so.

The model I have is one of your standard patterns, and although we have in summer a temperature of 140° to 150° F. in the sun, I have been able to expose the camera as much as was necessary in ordinary working to the full blaze of the mid-day sun without any ill effects in the way of warping of baseboard, etc. The rack motion works as smoothly now (if not more so) than when I first tried it.

One movement of the camera in particular has given great satisfaction. I refer to the central swing front. In taking photos of shipping from a boat I find it is only necessary to raise the front about $\frac{1}{4}$ " and swing the lens outwards and downwards just the merest trifle—with the lens at infinity focus by the scale—in order to obtain a perfectly sharp image of the nearer portion of the picture, as well as the distance. The dark slides—or rather plate-holders—I load mine from the end—are the "last word" in convenience for loading with ultra rapid plates which one does not wish to expose too much to the red light. I cannot, however, enter into details of the many good points of the camera, but if what I have written is of any use to you I give you full permission to use it, so that other amateur photographers may be induced to share the pleasures of possession of a Sinclair "Una."

Yours faithfully,

T.M.S.

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PRICE LIST OF

	Form.
(D) The Sinclair "UNA" Camera , complete with brilliant or ground-glass View Finder, and three double Plate Holders, but without lens or shutter	Standard .. Tropical .. De Luxe ..
(E) Ditto, ditto, with Busch Series III. "Omnar" Anastigmat F/7.7 Lens and "N.S. Accurate" Shutter— $\frac{1}{4}$ -plate, $5\frac{1}{8}$ in.; 5×4 and post-card, 6 in.; $\frac{1}{2}$ -plate and 7×5 , $7\frac{1}{2}$ in.	Standard .. Tropical .. De Luxe ..
(E) Ditto, ditto, with Busch "Leukar" Anastigmat Lens, F/6.8 and "N.S. Accurate" Shutter.— $\frac{1}{4}$ -plate, $5\frac{1}{8}$ in.; 5×4 and post-card, 6 in.; $\frac{1}{2}$ -plate and 7×5 , $7\frac{1}{2}$ in.	Standard .. Tropical .. De Luxe ..
(E) Ditto, ditto, with Cooke Series. III F/6.5 Lens and "N.S. Accurate" Shutter— $\frac{1}{4}$ -plate, 5 in.; 5×4 and post-card, $6\frac{3}{8}$ in.; $\frac{1}{2}$ -plate, $7\frac{1}{2}$ in.; 7×5 , $8\frac{1}{2}$ in.	Standard .. Tropical .. De Luxe ..
(E) Ditto, ditto, with Ross F/6.3 or F/6.8 "Homocentric" Lenses and "N.S. Accurate" Shutter. Foci of lenses— $\frac{1}{4}$ -plate, 5 in.; 5×4 and post-card, 6 in.; $\frac{1}{2}$ -plate, 7 in.; 7×5 , $8\frac{1}{2}$ in.	Standard .. Tropical .. De Luxe ..
(E) Ditto, ditto, with Ross Convertible Anastigmat Lens, 2 foci and "N.S. Accurate" Shutter, 2 Focussing Scales. $\frac{1}{4}$ -pl. 5×4 and post-card $\frac{1}{2}$ -pl. and 7×5 5 and 9 in. $6\frac{1}{2}$ and $11\frac{1}{2}$ in. 8 and 14 in.)	Standard .. Tropical .. De Luxe ..
(E) Ditto, ditto, with "Goerz" F/6.8 "Dagor" Anastigmat Lens and "N.S. Accurate" Shutter. Foci of lenses— $\frac{1}{4}$ -plate, 5 in.; 5×4 and post-card, 6 in.; $\frac{1}{2}$ -plate, 7 in.; 7×5 , $8\frac{1}{4}$ in.	Standard .. Tropical .. De Luxe ..
(E) Ditto, ditto, with Zeiss F/6.3 Tessar Lens and "N.S. Accurate" Shutter. Foci of lenses— $\frac{1}{4}$ -plate, $5\frac{1}{4}$ in.; 5×4 and post-card, 6 in.; $\frac{1}{2}$ -plate, $7\frac{1}{16}$ in.; 7×5 , $8\frac{1}{4}$ in.	Standard .. Tropical .. De Luxe ..
(E) Ditto, ditto, with F/6.3 Zeiss Double "Protar" Lens, Series VIIa., 2 foci. "N.S. Accurate" Shutter, and two Focussing Scales. $\frac{1}{4}$ -pl. 5×4 and post-card $\frac{1}{2}$ -pl. 7×5 5 & 9 in. $6\frac{1}{2}$ & $11\frac{1}{2}$ in. 8 & 14 in. 8 & 14 in.)	Standard .. Tropical .. De Luxe ..

For Extras and General

Fitting customer's own lens which is in a suitable shutter ready for fitting and

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SINCLAIR'S "UNA" CAMERAS.

$\frac{1}{2}$ -plate.	5×4 and 3×12 cm.	Post-card, $5\frac{1}{2} \times 3\frac{1}{2}$	$6\frac{1}{2} \times 4\frac{3}{4}$	7×5 or 13×18 cm.
£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
6 10 0	7 10 0	8 0 0	8 15 0	9 5 0
7 10 0	8 10 0	9 0 0	10 0 0	10 10 0
9 0 0	10 0 0	10 10 0	11 10 0	12 0 0
11 19 6	13 7 0	13 17 0	15 7 6	15 17 6
12 19 6	14 7 0	14 17 0	16 12 6	17 2 6
14 9 6	15 17 0	16 7 0	18 2 6	18 12 6
12 14 6	14 9 6	14 19 6	17 2 6	17 12 6
13 14 6	15 9 6	15 19 6	18 7 6	18 17 6
15 4 6	16 19 6	17 9 6	19 17 6	20 7 6
13 1 6	14 11 6	15 1 6	17 4 6	18 5 6
14 1 6	15 11 6	16 1 6	18 9 6	19 10 6
15 11 6	17 1 6	17 11 6	19 19 6	21 0 6
12 19 6	14 9 6	14 19 6	17 2 6	19 2 6
13 19 6	15 9 6	15 19 6	18 7 6	20 7 6
15 9 6	16 19 6	17 9 6	19 17 6	21 17 6
16 17 0	19 7 0	19 17 0	22 17 6	23 7 6
17 17 0	20 7 0	20 17 0	24 2 6	24 12 6
19 7 0	21 17 0	22 7 0	25 12 6	26 2 6
14 4 6	16 4 6	16 14 6	18 17 6	20 17 6
15 4 6	17 4 6	17 14 6	20 2 6	22 2 6
16 14 6	18 14 6	19 4 6	21 12 6	23 12 6
13 14 6	14 19 6	15 9 6	18 12 6	20 12 6
14 14 6	15 19 6	16 9 6	19 17 6	21 17 6
16 4 6	17 9 6	17 19 6	21 7 6	23 7 6
17 1 0	19 11 0	20 1 0	23 3 0	23 13 0
18 1 0	20 11 0	21 1 0	24 8 0	24 18 0
19 11 0	22 1 0	22 11 0	25 18 0	26 8 0

Sundries see page 1036.

making one Focussing Scale, 7/6; or fitting and making two focussing scales, 15/0.

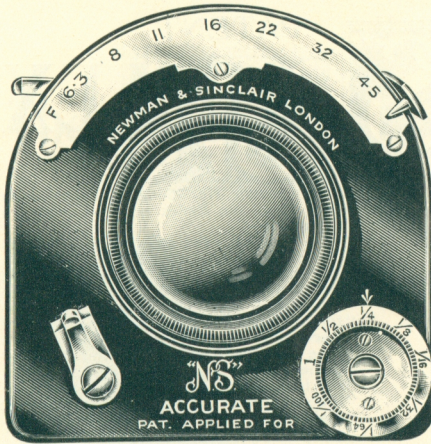
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Sundries for "Una" Cameras.

	$\frac{1}{4}$ -plate.	5×4	$\frac{1}{2}$ -plate	7×5 or 13×8 cm.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Extra Double Plate Holders, each (E) Code Word	0 10 0 Sordicia	0 12 0 Sordicula	0 14 0 Sordido	0 15 0 Sorditty
Extra Tropical Spanish Mahogany (E) Plate Holders each Code Word	0 12 0 Sordomuto	0 14 0 Sordones	0 16 0 Soredion	0 17 0 Soredium
Best Mahogany Double Dark Slides (E) each Code Word	0 16 0 Sorellina	0 18 0 Sorgen	1 1 0 Sorgenlos	1 2 8 Sorgevano
Leather-coloured Film Pack Adap- (D) ter each Code Word	1 1 0 Sorglich	1 7 6 Sorglos	1 12 0 Sorgloser	1 15 0 Sorgsame
Mackenzie-Wishart Daylight Slide, (D) with 1 dozen Plate Envelopes and Leather Case Code Word	1 15 6 Sorianas	2 2 6 Soricem	2 12 6 Soritical	—
KI, KII or KIII Light Filters for (E) Orthochromatic Work, in screw cell fittings and case Code Word	0 10 6 Sorlingas	0 10 6 Sorlo	0 12 6 Sormigro	0 12 6 Sormonto
Light Mackintosh Overall for camera and one slide Code Word	0 4 6 Sotoforin	0 5 0 Sotopor	0 5 6 Soupir	0 5 6 Soupireur
Leather Case, to hold Camera and (D) three Slides Code Word	0 13 6 Sorneiro	0 16 0 Sorocees	1 0 0 Sorodeo	1 1 0 Sorolla
Hand-sewn Leather Case, with lock (E) and key, to hold Camera and three Slides Code Word	1 7 6 Sororal	1 10 0 Sororcula	1 17 6 Sororiabo	2 0 0 Sororiavi
Ditto, for Camera and six Slides (E) Code Word	1 15 0 Sororize	1 17 6 Sorosan	2 5 0 Sorosis	2 7 6 Sorpassi
Web-sling Shoulder Strap for Cam- (E) era Case Code Word	0 5 6 Sorpiu	0 5 6 Sorpiu	0 5 6 Sorpiu	0 5 6 Sorpiu
Changing Box, holding 12 plates (D) Code Word	2 0 0 Sorrapeo	2 7 6 Sorrato	—	—
Focal Plane Shutter, specially adap- (E) ted for use with the Sinclair Camer- as, speeds adjustable from outside, time and instantaneous exposures Code Word	4 0 0 Sorregar	4 5 0 Sorreggo	4 10 0 Sorrelfa	4 10 0 Sorrily
Russia Leather Bellows.. .. (D) Code Word	0 17 6 Sostavano	1 1 0 Sostegno	1 10 0 Sosteneva	1 15 0 Sostenias
Marking Rising Front on Camera (B) and Ground-Glass Finders Code Word	0 5 6 Sosthenes	0 5 6 Sosthenes	0 5 6 Sosthenes	0 5 6 Sosthenes
Depth of Focus Scale Code Word	0 5 6 Sotnia	0 5 6 Sotnia	0 5 6 Sotnia	0 5 6 Sotnia
Wide-Angle Lens, Zeiss, Series V., (E) F/8 Code Word	$3\frac{3}{8}$ in. 3 4 0 Lagune	$4\frac{1}{4}$ in. 3 4 0 Lagune	$5\frac{1}{2}$ in. 4 0 0 Lama	$5\frac{1}{2}$ in. 4 0 0 Lapsus

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The "N.S." Accurate Shutter.



"If a lens maker marked his lens F/5.6 and gave us our working at F/8 we should have something to say, but the shutter, which is equally important, is fitted with a dial which tells us a frigid and quite unconscious lie whenever we consult it. I am sure it would not be to the disadvantage of makers to engrave speeds say within 25 per cent. of accuracy."

JAMES A. SINCLAIR,
F.R.P.S.,
at the Royal Photographic Society,
March, 1910.

At last we are able to announce a shutter of which the actual speeds are accurately known, and we are sure that this will be enthusiastically appreciated by all who value exactness in their work. In these days of

rapid plates and hand cameras, the great majority of correct exposures are in the nature of fractions of a second, and hitherto it has been rarely possible to ensure that the speeds marked on the shutters bore any resemblance to actuality, and moreover, the markings have generally been most unreliable on those speeds which are used perhaps more than any others, viz., $\frac{1}{8}$, $\frac{1}{16}$ and $\frac{1}{32}$ second.

For example, on six quite excellent shutters sent to the National Laboratory—

Speed Marked on Shutters.	Actual Speeds on Shutters.					
	1	2	3	4	5	6
$\frac{1}{10}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{7}$
$\frac{1}{25}$	$\frac{1}{13}$	$\frac{1}{13}$	$\frac{1}{11}$	$\frac{1}{9}$	$\frac{1}{11}$	$\frac{1}{14}$
$\frac{1}{50}$	$\frac{1}{10.5}$	$\frac{1}{30}$	$\frac{1}{27}$	$\frac{1}{7.1}$	$\frac{1}{9.0}$	$\frac{1}{3.0}$

and in the cases of shutters 3, 4 and 5, the above were only the mean speeds, for in each case there was a variation of sometimes as much as 15 per cent. on either side of these speeds for successive exposures. **The worker who has an expensive camera and expensive lens is therefore greatly prejudiced with his results unless he has a reliable and accurate shutter.**

The "N.S." Accurate Shutter has its speeds certified by a National Institution.

The "N.S." Accurate Shutter is simple in construction.

The "N.S." Accurate Shutter can be fitted to almost any camera, including such instruments as the Folding Pocket Kodaks.

The "N.S." Accurate Shutter has the speeds the practical worker requires— $1, \frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16}, \frac{1}{32}, \frac{1}{64}, \frac{1}{100}$ th second.

No.	Iris Aperture.	Tube diameter for Lenses.	Price, including Kew Certificate.
1	1 inch	$1\frac{3}{8}$ inch	£2 2 0
2	$1\frac{3}{8}$ inch	$1\frac{3}{4}$ inch	2 10 0

When lenses are ordered from us fitted to these Shutters there is no charge for fitting.

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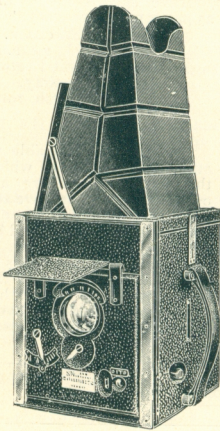
A REVOLUTION IN REFLEX CAMERA CONSTRUCTION

The



PATENT

REFLEX



The N.S. REFLEX with hood arranged to take objects to the left of the worker.

In the Sinclair Handbook of Photography when describing the Reflex type of Camera we wrote (page 29)—

“ . . . perhaps the greatest drawback is the unsuitability of the camera for the work for which it is primarily intended, namely, the photography of near objects—at least unless such objects are at rest. The shutters as fitted work perhaps from $\frac{1}{1000}$ th of a second to $\frac{1}{125}$ th of a second. To make this type really serviceable the shutter should be of metal and exposures should be possible say from $\frac{1}{4}$ to $\frac{1}{100}$ th second in addition to time exposures. It is very rare that a higher speed than an actual $\frac{1}{100}$ th is required, in fact, in my own experience I rarely require less than $\frac{1}{32}$ second and constantly use $\frac{1}{4}$ or $\frac{1}{8}$ th second.”

When these lines were penned we had no idea that what appeared an unsolvable problem would so soon be solved. For to better understand the difficulties in the way of successfully making a reflex camera with an efficient diaphragm shutter it must be remembered that light comes into the camera, not only through the lens, but also through the ground-glass finder on the top of the camera. In the Focal-Plane type the lens is always open and the reflecting mirror acts as a cover for the ground-glass finder while the shutter is released, and consequently only light passing through the lens can reach the plate. To dispense with the Focal-Plane shutter

the Seven Problems were as follows:—

1. That the lens should be open when the mirror was down and the shutter set.
2. That no light should reach the plate through the lens while the mirror was in motion.
3. That no light should reach the plate through the ground-glass finder while the mirror was opening.
4. That the shutter should work at any desired speed without loss of time after pressing the release.
5. That the shutter could not be set when the mirror was up.
6. That the shutter must of necessity be set when the mirror was down.
7. That the shutter must work equally well when the rising front was in use and also when at any focus.

We discussed the problems with Mr. Arthur S. Newman, whose reputation as an originator of apparatus of the highest quality is world-wide, and he has overcome every difficulty in so simple and satisfactory a manner that it now seems almost impossible to realize that there was any complexity in the work which was undertaken.

JAMES A. SINCLAIR & CO., LTD.
54, HAYMARKET, LONDON S.W.

"The most notable departure in Hand Camera construction during the past ten years."—*British Journal of Photography*.

The

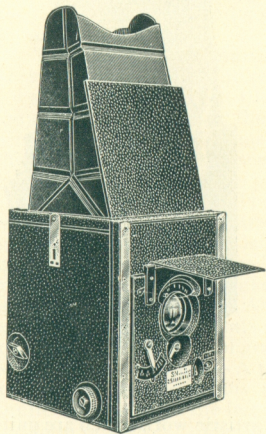


PATENT

REFLEX

IS THE

Newman & Sinclair
Reflex.



The N.S. REFLEX with Hood extended ready for use.

It has no Rubber
Blinds.

Invaluable for the
Tropics.

The "N.S." Reflex is undoubtedly the greatest advance in camera construction made for many years and will be welcomed by those wanting the advantages of the Reflex principle without the drawbacks inherent in the focal plane shutter. In the "N.S." Reflex all the working parts are of metal and are made with the greatest care and accuracy, while the case itself is of mahogany, covered with the best morocco leather. Every portion of the mechanism is linked up in such a way that absolute accuracy is secured in the simplest possible way. The shutter is of an entirely new design, and is arranged to give exposures of from $\frac{1}{2}$ to $\frac{1}{100}$ th second or time exposures if desired.

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54, HAYMARKET, LONDON S.W.

AN EPOCH-MAKING INSTRUMENT.

The



PATENT REFLEX

IS FITTED WITH

**Zeiss Tessar Lens,
F4.5.**

Gives speeds of

$\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{32}$, $\frac{1}{64}$ & $\frac{1}{100}$ sec.

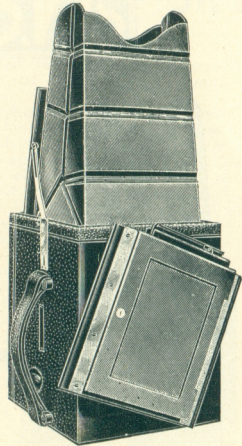
And also Time Exposures controlled
by pneumatic regulation brake.

The success of this great departure from previous forms of reflex camera construction has been enormous, and we are greatly gratified by the enthusiastic testimonials received from our customers. The "N.S." Reflex is undoubtedly the best possible Reflex camera for the practical worker who wishes to do portraiture or general photography, other than motor races and railway trains, and it places at his command opportunities for artistic work which are quite impossible with cameras of the focal plane type. We are glad to announce that two new sizes for taking plates 5×4 inches and 9×12 centimetres are now ready.

Specification of the "N.S." Reflex.

The Camera Body is well made of seasoned mahogany and has singularly few projections on the outside. On the right is the focusing knob which is recessed and only pulled out from the side of the instrument when in use; and also the sunk lever which brings the mirror and safety shutter into position. On the left is the shutter release lever, also sunk, and the only projection is the handle.

The Lenses. To the $\frac{1}{4}$ -plate size we fit a 6 inch $f/4.5$ Zeiss Tessar Lens and to the 9×12 centimetre and 5×4 sizes a 7 inch lens of the same series. These lenses are recognised as unsurpassed for high quality work and probably no other lenses give such perfect definition



The N.S. REFLEX, showing
revolving back.

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The



PATENT REFLEX

with the large aperture of $f/4.5$. Sometimes lenses of longer focus are required for long distance photography and in such cases we suggest the Bis-Telar, which is interchangeable with the Zeiss Lenses by means of bayonet fittings, and when either is not in use it is kept in a small cupboard inside the base of the camera. The Bis-Telar for the $\frac{3}{4}$ -plate gives a focus of $10\frac{3}{4}$ inches and an aperture of $f/7.3$, while on the 9×12 centimetres and 5×4 instruments the Bis-Telar is $13\frac{1}{2}$ inches focus.

The Mirror Mechanism and Shutter are linked together and work in exact unison. The keynote of the camera is order. For instance the shutter cannot be set, till the mirror and the special light trap in conjunction with it cover the plate, and preserve it from light. This being done the shutter must of necessity be set, for not till this is effected can the image be seen and focussed on the ground glass. No mistake is possible and the plate cannot be fogged by error on the part of the veriest beginner. The mirror is of large size and reflects the whole of the light transmitted by the lens and conduces to easy and accurate focussing. This is the reason why the image on the finder of the "N.S." Camera is more brilliant than on other cameras using lenses of the same aperture. Linked to the mirror mechanism is the shutter specially designed by Mr. Arthur S. Newman for this instrument. It works between the elements of the lenses and by means of the well-known pneumatic control gives exposures of from $\frac{1}{2}$ to $\frac{1}{100}$ th second, as well as time exposures. A pointer at the front of the camera is placed at the speed desired at any time, either before or after setting. The shutter release is on the left side of the camera near the base and is in the form of a lever. The thumb being slipped through the handle is kept over the lever till the moment of exposure, the fingers of the hand being below, and supporting the camera. This form of release was suggested many years ago by that well-known worker Mr. Andrew Pringle, and ensures the utmost steadiness.

The Focussing Finder is the charm of the Reflex Camera, for objects may be composed and focussed right up to the moment of exposure. In the "N.S." Reflex the whole of the image is shown both for upright and horizontal views.

The Reversible Finder Hood. The "N.S." Finder Hood is made as deep as possible and is so arranged that magnifiers can be placed in it which fold up inside when the camera is not in use. These magnifiers can be adjusted for any special sights, but the ordinary lenses we fit at the extra charge of $12/6$ will be found of great benefit in nearly all cases. One great advantage with the "N.S." hood is that

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54, HAYMARKET, LONDON S.W.

The



PATENT REFLEX

it is reversible and may be put on sideways when it is desired to photograph to the right or left of the observer without attracting attention. The change is instantaneously made.

The Revolving Back can be adjusted for taking horizontal or vertical pictures while the plate is in position and the slide drawn.

The Camera Front has sufficient extension for copying objects at 18 inches from the instrument or for using a $10\frac{3}{4}$ in. Bis-Telar Lens on the $\frac{1}{4}$ -plate camera. Moreover it has a rise of 1 inch which is remarkable. Many reflex cameras only give a rise of $\frac{1}{4}$ inch when fitted with large aperture lenses. On the front is a sunshade which can be set at any angle or detached and a Sinclair Lens Hood substituted if desired.

The Camera Sling. A sling strap is supplied with each instrument and this is attached in a very ingenious way by means of a bayonet fitting connected with the clips which keep the reversing hood in position.

The Plate Holders. These are similar to those supplied with the Sinclair Una Camera and are interchangeable with it. They are loaded from the bottom and have a metal septum which is placed between the two plates and all are inserted in the slide together. The shutters of the slides are of the best hard rubber and are not of the cheap vulcanite which have brought this form of slide into contempt. The shutters of our plate holders are almost unbreakable. Each slide is fitted with auto-catches which prevent accidental exposure of plates for a second time.

Nett Cash Prices.

	$4\frac{1}{4} \times 3\frac{1}{4}$ inches.	9×12 centimetres.	5×4 inches.
"N.S." Patent Reflex Camera with Zeiss $f/4.5$ Tessar Lens, 3 double plate holders and sling strap (focus of lenses $\frac{1}{4}$ -pl. 6 in., 9×12 and 5×4 in. 7 in.)	£23 10 0	£28 10 0	£30 0 0
Extra double plate holders, each	0 10 0	0 12 0	0 12 0
Bis-Telar Lens fitted inside camera and interchangeable with the Zeiss Lens.	3 10 0	4 15 0	4 15 0
Premo Film Pack, leather-covered	1 1 0	1 7 6	1 7 6
Magnifying Lenses to fold inside hood	0 12 6	0 12 6	0 12 6
Sinclair Lens Hood interchangeable with sky shade	0 15 0	0 17 6	0 17 6
Changing Box to hold 12 plates	2 0 0	2 7 6	2 7 6
Best Hand-Sewn Leather Case for camera and 3 plate holders, with lock and key and handle	1 11 6	1 15 0	1 15 0
Best Hand-Sewn Leather Case for camera and 6 slides, lock and key and handle	1 15 0	2 0 0	2 0 0
Broad Web Sling for camera cases	0 5 6	0 5 6	0 5 6
Special KI Screen to fit inside the Sinclair Lens Hood	0 10 6	0 12 6	0 12 6

Outside sizes of cameras, $6\frac{3}{4} \times 5\frac{3}{4} \times 7\frac{1}{4}$, $6\frac{1}{4} \times 7\frac{1}{4} \times 8$, $6\frac{1}{2} \times 7\frac{1}{4} \times 8\frac{1}{2}$.

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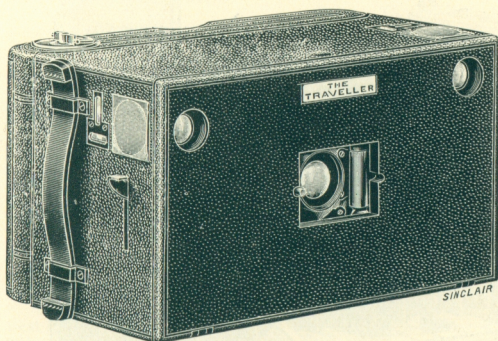
Sinclair's "Traveller" Roll-Film Camera.

For Pictures, $4\frac{1}{4} \times 3\frac{1}{4}$ inches.

No opening of the Camera. No setting of the Shutter.

No focussing required.

It is always in focus. It is always ready for use.



An extended experience of Hand Cameras and hand camera users has shown us that there are a very large number of people who require a camera of the simplest possible description, always in focus for the general range of subjects, and one in which the possibilities of error are reduced to a minimum. It is to fill such requirements that we have introduced the Sinclair "Traveller"

Roll-Film Camera. This camera will not only appeal to the novice, but also to the expert who is interested in genre photography and who knows the difficulty in obtaining figure subjects in sharp focus.

The Camera consists of a box, the back of which looks something like a Kodak in that it will take the ordinary Kodak Spool as used for the No. 3 F.P. Kodak Camera. These spools can be universally purchased.

The Lens.—This very important part of the camera is, of course, the feature which makes the outfit perhaps rather expensive at the commencement, but yet cheap when it is considered how much is saved in films by having an accurate instrument. We fit a 90 mm. Series III., F/6.8, Goerz "Dagor" Lens. This covers the $\frac{1}{4}$ -plate sharply to the corners with the largest stop and at the same time gives enormous depth of focus, and thus enables us to dispense with any focussing adjustment.

The Shutter.—Simplicity has guided us in this and consequently we have selected the Bausch & Lomb "Automat," a shutter which is always set and yet one on which the speed and diaphragm can be altered for various seasons of the year.

The Finders.—Two brilliant view finders are fitted, so that either upright or horizontal pictures may be taken.

The Levels.—Behind each finder is a T level, a useful adjunct if straight lines are required in the pictures.

£10 10 0 Nett Cash.

Code Word—Sostratos.

Best Hand-Sewn Leather Case, with sling and lock and key, .. **£1 1 0**

Code Word—Sostuve.

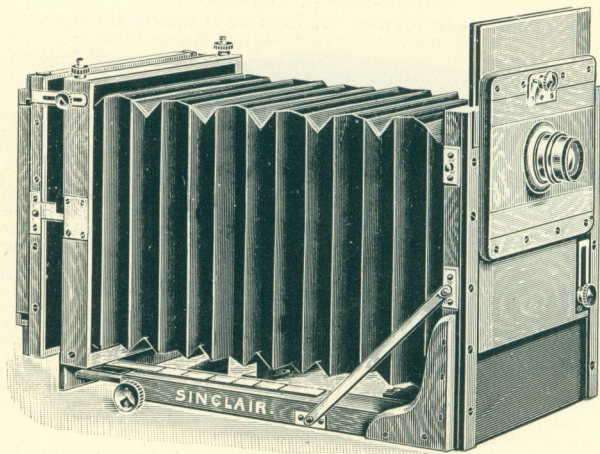
Camera as above, but with rising front for vertical and horizontal pictures, **£12 12 0**

Code Word—Sosextra.

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THE SINCLAIR "TECHNICAL" CAMERA.

As supplied to The War Department, His Majesty's Indian Government;
The New South Wales Government;
The Crown Agents for the Colonies; The Siamese Government;
Engineering Works and Scientific Institutions.



This Camera in its general character is of the square bellows long-focus type, but has a number of improvements in design, making it the most efficient of its class, and particularly suitable for Professional, Technical and Scientific work. It is made of the best seasoned Spanish mahogany, and great care is taken to ensure parallelism between front and back, an important matter with modern anastigmat lenses.

The Rising and Falling Front.

As will be seen from the illustration there is a very **great rising front movement**, and there is an **equally great falling movement**. This is attained by means of a moving panel at the back of the rising front, and which may be adjusted so that either a great rise or a great fall is secured.

The Swing Back.

A central swing is provided, and the arms are as long as possible, so that the greatest range of movement may be obtained. By means of the clamping screws on the top of the camera a side swing can also be obtained for special work.

The Baseboard

Is very solidly and rigidly made so that there shall be no loose play or spring, and it is an instrument recommended for rough wear and tear.

Specification.

Camera and slides of finest Spanish mahogany, double extension, improved front giving very great rising and falling movement, improved swing back, check screws to all possible milled heads, reversing frame, horizontal sliding front, dark slides fitted with special spring fastenings, and shutters with rebated hinges.

JAMES A. SINCLAIR & CO., LTD.
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SINCLAIR'S TECHNICAL CAMERA—Continued.

Special Export Model for Hot and Moist Tropical Countries.

The ordinary model being of best selected Spanish mahogany can be recommended even for tropical countries, but in places where there is much heat accompanied by moisture, then it is recommended to have the outfit brass-bound. Teak can be used if desired, but we prefer a close-grained Spanish mahogany, as Teak frequently cracks in hot and dry climates, and we do not use it for our tropical instruments.

OUTFITS.

For $6\frac{1}{2} \times 4\frac{3}{4}$ plates.

	Price.	Code Word.	Export Model, Special Brass-bound Camera and Slides.	Price.	Code Word.
Sinclair's Technical Camera as above, and 3 double dark slides	£9 10 0	<i>Ruminator</i>	£11 0 0	<i>Rumoerig</i>	
Best Rule-joint Tripod Stand	1 5 0	<i>Ruminavit</i>	1 5 0	<i>Ruminavit</i>	
Best Solid Leather Case and spring Lock	1 15 0	<i>Rumitabis</i>	1 15 0	<i>Rumitabis</i>	
	£12 10 0	<i>Rumitavi</i>	£14 0 0	<i>Rumorejar</i>	

For $8\frac{1}{2} \times 6\frac{1}{2}$ plates.

Sinclair's Technical Camera as above, and 3 double dark slides	£12 0 0	<i>Rumoren</i>	£13 15 0	<i>Rumpissa</i>
Best Rule-joint Tripod Stand	1 5 0	<i>Rumoribus</i>	1 5 0	<i>Rumoribus</i>
Best Solid Leather Case	2 12 6	<i>Rumorosa</i>	2 12 6	<i>Rumorosa</i>
	£15 17 6	<i>Rumourous</i>	£17 12 6	<i>Rumple</i>

For 12×10 plates.

Sinclair's Technical Camera as above, and 3 double dark slides	£16 10 0	<i>Rumpons</i>	£19 0 0	<i>Rumvat</i>
Best Rule-joint Tripod Stand	1 11 6	<i>Rumrum</i>	1 11 6	<i>Rumrum</i>
2 Best Solid Leather Cases (one for camera and one for slides)	4 4 0	<i>Rumstoker</i>	4 4 0	<i>Rumstoker</i>
	£22 5 6	<i>Rumusculi</i>	£24 15 6	<i>Runagate</i>

For 15×12 plates.

Sinclair's Technical Camera as above, and 3 double dark slides	£21 0 0	<i>Runcaloris</i>	£24 0 0	<i>Rundbaues</i>
Best Rule-joint Tripod Stand	1 17 6	<i>Runcetis</i>	1 17 6	<i>Runcetis</i>
2 Best Solid Leather Cases (one for camera and one for slides)	6 6 0	<i>Runcina</i>	6 6 0	<i>Runcina</i>
	£29 3 6	<i>Rundbauch</i>	£32 3 6	<i>Rundbild</i>

5 per cent. discount for cash with order.

Messrs. COLE, MARCHENT & MORLEY, Ltd., Prospect Foundry, Bradford, write—
“We congratulate you on the careful attention shown to a number of details which
are often omitted.”

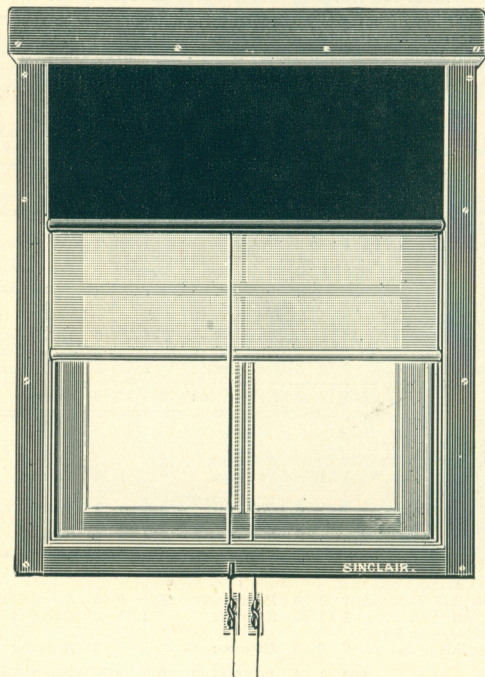
JNO. B. SCRIVNER, Esq., Government Geologist, Federated Malay States,
writes—“The whole-plate camera gives every satisfaction.”

EXTRA DARK SLIDES.

Made of Best Spanish Mahogany, with Auto-catches each	$6\frac{1}{2} \times 4\frac{3}{4}$ £1 1 0	$8\frac{1}{2} \times 6\frac{1}{2}$ £1 3 6	12×10 £1 16 0	15×12 £2 10 0
Code Word	<i>Rundblik</i>	<i>Rundblume</i>	<i>Rundbogen</i>	<i>Rundell</i>
Ditto, ditto, Brass-bound, each	£1 4 6	£1 7 6	£2 1 6	£2 16 0
Code Word	<i>Runderrib</i>	<i>Rundervet</i>	<i>Rundfisch</i>	<i>Rundhacke</i>
Inner Frames for dark slides, each	1/9	2/3	3/0	4/0

JAMES A. SINCLAIR & CO., LTD.
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Sinclair's Dark=Room Blinds



AT ONCE
CONVERT
ANY
ROOM INTO
A DARK-
ROOM.

“One of the things which we all at times make, or get made for ourselves, usually in a rather unsatisfactory way, has been done very well indeed by Mr. J. A. Sinclair's firm.”
—*British Journal of Photography.*

This fitting consists of a well-made varnished wood frame with two grooves, in which red and black blinds travel, and when both are down no trace of white light is admitted. The red blind alone is useful for handling P.O.P. and Platinotype Papers and Carbon Tissues, but for developing, the constancy and safety of a lamp is desirable, and for this purpose the black blind is also drawn down. We make the fitting to any measurements, and we shall be pleased to give quotations on application. Screws are supplied with the blind, and all that is necessary is to screw it to the window frame.

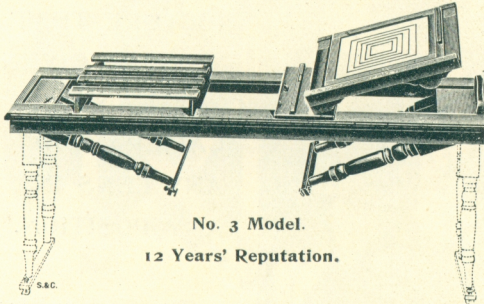
Specimen Size and Price, including Packing for rail.

Size about 5 ft. x 4 ft.	£4 0 0
„ 7 ft. x 4 ft.	£4 14 0

Quotations given for any size.

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The Southport Enlarging and Copying Table, (PATENT.)



No. 3 Model.
12 Years' Reputation.

As supplied to the Councils of the Liverpool, Birmingham and Weymouth Photo-graphic Societies.

Notwithstanding the many forms of easel and enlarging tables placed upon the market of recent years, the Southport Table holds the premier position, and has never been surpassed.

No. 3 Model.

<i>As illustrated</i> , Easel, with Universal Movements, and sliding along Top Rails (Lantern extra), Lantern Carriage, Legs to fold under Table, Levelling Screws for uneven floors, for enlarging to 15 × 12	£ s. d.
	5 5 0
Ditto, but made to enlarge to 20 × 16	10 10 0
" " " " 24 × 20	13 0 0
" Side Swing can be fitted when required, 15 × 12 size, 21/- extra.	
Larger sizes, 25/- extra.	

No. 1 Model.

Flat top rails, 7 feet long, hinged in the centre, with Easel fixed at one end, but having the universal movements, Lantern Carriage to slide along the rails, enlarging to 15 × 12	£ s. d.
	3 3 0
Ditto, but made to enlarge to 18 × 15	5 5 0
" " " " 20 × 16	6 0 0
" " " " 23 × 17	6 15 0
" " " " 24 × 20	8 10 0
Set of Carriers from 1/2 to 15 × 12, for making enlarged Negatives, 10/6	
" " " " 1/2 to 24 × 20	25/-

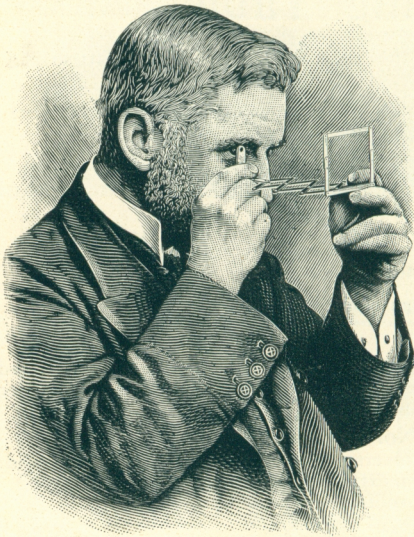
The Card on the Easel can be ruled up in centimetre sizes when desired. For use abroad we make either Model in solid mahogany and brass-bind the Easel. The cost of the No. 3 Model for 15 × 12 size. £12 10s.

Sole Makers:

JAMES A. SINCLAIR & CO., LTD

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THE SINCLAIR VIEW METER



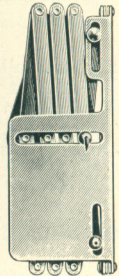
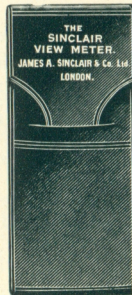
SHOWS THE
PICTURE THAT
WILL BE GIVEN
WITH ANY
CAMERA AND
ANY LENS IN
ANY POSITION.

The Sinclair View Meter is a valuable adjunct to the photographic outfit, because by its means the worker is able to judge exactly what his picture will embrace when completed.

Using the Sinclair View Meter.

The Meter consists of a small metal collapsible frame which, when open, is supported at one end of a metal lazy-tongs which carries at the other end a folding eyepiece. As the lazy-tongs permits of great range of adjustment between the frame and the eyepiece, it will be recognised that this View Meter is useful for any focus lens on any size camera. After being once adjusted to the worker's camera and lenses it is always ready for action and shows exactly what the picture will include from any standpoint or shows the position necessary to get the required view.

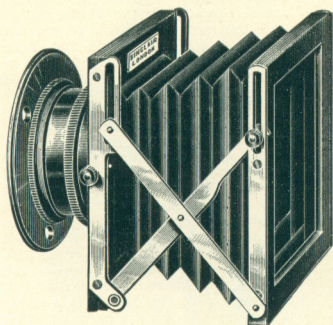
The price, including leather pocket case measuring only $2\frac{1}{2} \times 1 \times \frac{3}{8}$, is five shillings. Post-free in Great Britain when cash accompanies order.



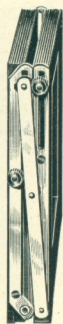
The Sinclair View Meter closed and its case.

JAMES A. SINCLAIR & CO., LTD.
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SINCLAIR ADJUSTABLE



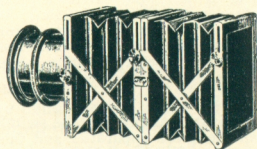
Open on lens.



Closed.

LENS HOOD.

"The practical photographer will be wise in regarding this accessory as an indispensable part of his equipment."—*British Journal of Photography.*



Two hoods joined for Tele-photography.

The Sinclair Lens Hood is adjustable, and may be partially extended when using wide-angle lenses.

The Sinclair Lens Hood is small and may be carried in the waistcoat pocket.

The Sinclair Lens Hood prevents flare, and greatly enhances the brilliancy of negatives.

The Sinclair Lens Hood has a rectangular opening which permits of its being used at its maximum extension, and the method of fastening on to the lens allows of its being used in a vertical or horizontal position.

The Sinclair Lens Hood is invaluable for "contre jour" effects.

		For lenses diameter up to	Extension up to	Size closed.	Price
	Shape of opening.	inches.	inches.		
No. 0. Single Extension	Square	2	2½	3 × 3 × ¼	10/6
No. 1a. Single and Double Extension for ordinary and Telephoto Work	Rectangular	2	2¾ × 4¾	3½ × 3 × 1/16	25/0
No. 2. Single Extension	Rectangular	2½	3	4 × 3½ × 1/16	15/0
No. 2a. Single and Double Extension for ordinary and Telephoto Work	Rectangular	2½	3 & 6	4 × 3½ × 1/16	30/0
No. 3. Single Extension	Square	2	2½	3½ × 3½ × 1/16	12/6
No. 4. Single Extension with attachment for "N.S." Reflex Camera	Square	2	2½	3½ × 3½ × 1/16	15/0

Fitting to one lens is free unless a coned adapter is required to keep the hood away from the working parts of a shutter. Such coned adapters cost 2/- extra. Extra adapters for other lenses, plain 1/- each, coned 2/- each.

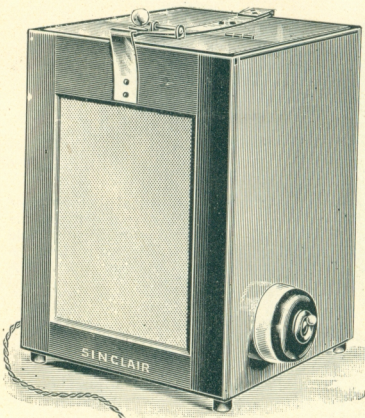
When ordering send a strip of paper which exactly fits round the lens.

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THE "MAK-CLAIR" LAMP

An Electric Dark-room Lamp and Printing Machine combined.

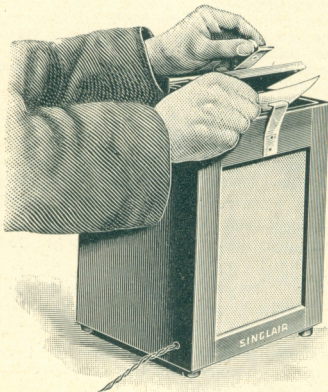
Can be turned up and down.



Lamp as used for developing.

is a hinged spring cover, which serves to hold the sensitive paper in position when printing and also keeps light from passing out of the lamp when developing.

INSTRUCTIONS FOR USE.



Lamp being used for printing.

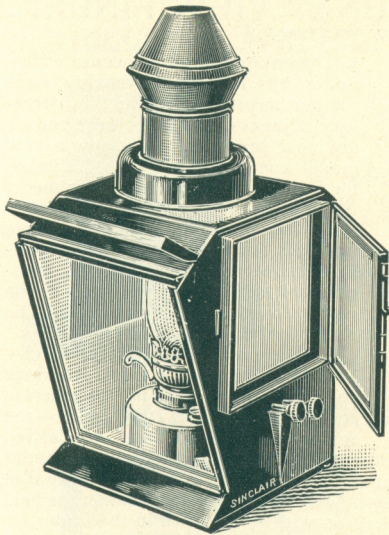
The advantages of a light that can be controlled or varied in intensity are self-evident to the photographer and the only objection to electric lamps as hitherto made has been the fact that the light could not be "turned up" or "turned down" as required. With the Mak-Clair Lamp this last objection to the employment of electricity has been removed, and we are able to turn the light "up" or "down," thereby allowing each stage of development to be carried out with the maximum of comfort and without danger of "fog." The Lamp consists of a polished mahogany box, carrying at the front red and yellow fabric screens, 9x6 inches in size, and either or both can be used as desired. Inside, and at the bottom of the Lamp, is a lamp-holder in which an Osram or other metallic filament glow lamp should be placed. Such lamps do not heat the apparatus or spoil the negatives. The top of the lamp carries a piece of glass 7x6, sufficiently large to support any negative not exceeding these dimensions. Above the glass

The light is turned down by the switch on the outside of the apparatus, and this results in the filament giving a non-actinic red glow quite sufficient to see by, but not actinic enough to fog the sensitive gaslight paper. A negative is laid on the glass support at the top of the lamp, the gaslight paper is placed in position and the hinged lid being pressed down, automatically clamps. The light is now turned up, and while the exposure is being made a previously-exposed piece of sensitive paper is passed through the developer, which is in a dish by the front of the lamp.

It will at once be seen that with the Mak-Clair Lamp every exposure is made with great exactness, because the distance from the light, as well as the intensity of the light, is always the same.

The Mak-Clair Lamp is made for currents of various voltages and it is necessary to say the voltage when ordering. The price, including red and yellow fabric screen, is 31/6, and the metallic filament lamp costs for 100 volts 2/9, and 200 volts 4/.

JAMES A. SINCLAIR & CO., LTD.
54, HAYMARKET, LONDON S.W.



Sinclair's 'Efficient' Lamp

is the
**BEST LAMP for OIL
or ELECTRIC LIGHT.**

"A dark-room lamp really satisfactory in use."—*British Journal of Photography.*

"A piece of apparatus it is difficult to see how to improve."—*Photography.*

"Well worth the money."—*Amateur Photographer and Photographic News.*

This will appeal to workers requiring a really reliable lamp, whether for oil or electric light. It is a large lamp; but the larger the lamp the better, provided it is fitted with a safe light. Instead of the usual badly-made oil reservoir and worse burner in the ordinary commercial articles, we have a **large oil reservoir** made from **solid drawn metal**, and which is consequently unbreakable. The burner is a **best quality duplex**, and the two wicks being actuated from the outside, the light can be of great or little intensity at will.

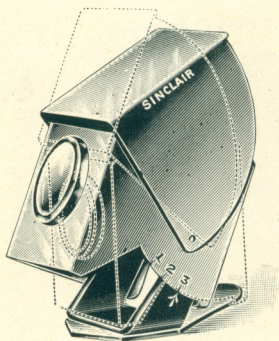
The front of the lamp slopes so that the light is thrown down on to the work table, and carries any combination of non-actinic material in three grooves—one of which is wide enough to take a thick glass Wratten Safe Light, 12×10 in size. Both sides of the lamp have grooves, each holding two fabric frames, yellow and ruby, 8½×6½ inches, and on one side the groove is arranged in a door which may be opened if white light is required for exposing or any other purpose.

When arranged for electric light, a double bayonet electric fitting is connected with a reversible switch, thereby enabling the operator to have either a white light on the top of the lamp, or the usual light from the inside of the lamp as desired.

Price, with Oil Reservoir and best Duplex Burner, as described	£1 5 0
Ditto, fitted for Electric Light, giving light from inside or outside at will	1 5 0
Extra for 12×10, Wratten Safe Light (say series required)	0 5 0

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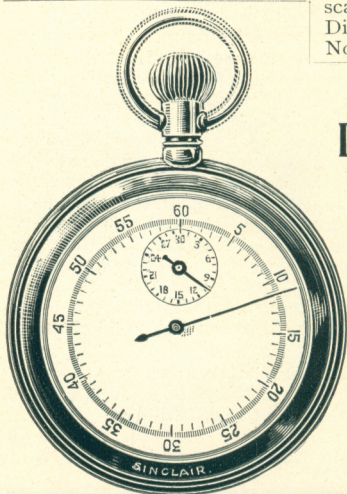
The SINCLAIR "UNA" VIEW FINDER. (NEW PATTERN.)



The importance of an accurate view finder has led to our making some further improvements in this necessary adjunct of a hand-camera and we are now prepared to supply a new model known as the "Una" Finder, for fitting to any suitable instrument. As will be seen from the illustration, the finder is made to swing upwards from its base and this enables us to engrave a scale to correspond with another scale fitted to the rising front of the camera. The method of use is as follows:—

The camera being held level—judged by the spirit level, which in the case of our "Una" camera is fitted just behind the finder—the finder is tilted so that the desired view is seen in it. The indicator on the scale at the side of the finder is now read and the rising front raised so that its scale agrees with that on the finder. The picture may now be taken and if the camera is held level the view on the plate will agree with that shown in the finder.

The cost of fitting finder to $\frac{1}{4}$ -plate or 5×4 cameras, including marking down finder to show exact view given by lens, scaling finder and rising front is 20/0
Ditto for $\frac{1}{2}$ -plate cameras with No. 2 Finder is 25/0



Sinclair's Dark-Room Watch

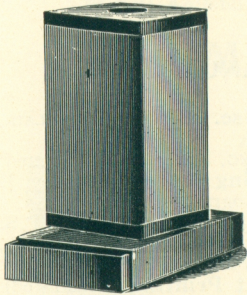
For Time Development.

This watch has the dials so arranged that one revolution of the large hand is made in one minute, and the divisions are divided to $\frac{1}{5}$ th second. The smaller hand records the minutes up to 30 minutes. One pressure of the winding knob starts the watch, a second pressure stops it, while a third re-sets the hand at zero.

Price 25/0

JAMES A. SINCLAIR & CO., LTD.
54, HAYMARKET, LONDON S.W.

Sinclair's Tropical Folding Lamp.



This lamp is of a well-known form, but consists of a folding fabric frame, yellow inside and ruby outside, with the top and bottom of the lamp drawn out of **solid copper**. Consequently the lamp does not rust, and no light leaks from the corners.

Supplied in cloth-covered case large enough to hold four lights in addition.

Price 2/6

A cheaper form, Russian iron, in Card Box, price 1/0.

Sinclair's Tropical Devolights.



These lights give a powerful light far better than the usual night-light. They are made of very hard wax, which does not melt or run during transit in tropical countries. The metal tins holding the lights are made of drawn metal.

Price,

2d. each, 1/9 per box of twelve.

Sinclair's "Ideal" Drying Rack.



Most Draining Racks are not well suited for drying plates. The "Ideal" Rack is the best for draining and drying, and will be welcomed in every dark-room. The grooves are wide apart, and are so cut that, although the plate is held perfectly, yet air can get to the extreme edges. It will take 21 plates and is suitable for Lantern size to $8\frac{1}{2} \times 6\frac{1}{2}$. Larger sizes may be had to order.

Price 2/6 each.

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The Sinclair Hand Book of Photography

is the Best Guide and Reference Book.

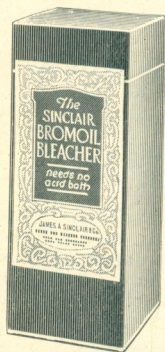
Edited by JAMES A. SINCLAIR, F.R.P.S.

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For **SUCCESSFUL BROMOIL PRINTS**

— USE —

Sinclair Bromoil Bleacher.

IT NEEDS NO ACID BATH

and simplifies pigmenting.

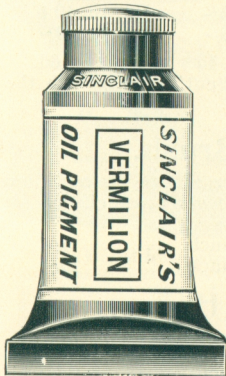
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1/3

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SINCLAIR'S IMPROVED BROMOIL PIGMENTS



Sinclair's Pigments showing size of opening in tube.

ENCRE MACHINE. A hard warm black ink.

ENCRE TAILLE DOUCE. A soft ink to mix with Encre Machine.

These two last are the inks used by Messrs. Demachy, Puyo, Read, etc.

The Sinclair Bromoil Medium does not dry so quickly as Megilp.

9d. per large tube.

FRANK H. READ, Esq., writes:—

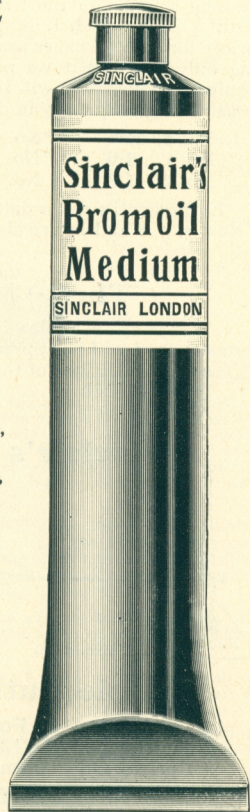
"My thanks, I feel, are due to you for placing such excellent materials upon the market.

ARE THE
EASIEST
TO
USE.

1/- per large
Tube.

Colours.

BLACK,
BURNT UMBER,
WARM SEPIA,
COBALT BLUE,
ULTRAMARINE,
BURNT SIENNA,
ZINC WHITE,
VERIDIAN GREEN,
DARK GREEN,
CADIUM YELLOW,
LIGHT YELLOW,
RED CHALK,
VERMILION,
CRIMSON LAKE.



Sinclair's Medium.
9d. per Tube.

JAMES A. SINCLAIR & CO., LTD.
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THE OIL AND BROMOIL PROCESSES.

Sinclair's Oil Pigment Brushes.

(Genuine "Putois pied de biche")

The quality of the Brush is as important as the quality of the ink. All sorts of brushes have been recommended, but we believe that there is nothing to equal the brushes recommended by M. Demachy. These are made from the hair of the pole cat, and the hair is arranged in the making so that on the bevel it is beautifully domed. Consequently with a large brush it is quite possible to do small fine work. Our prices for these brushes are exceedingly low. For a beginner purchasing only one brush we recommend one of the larger sizes, but an equipment of several will be found very advantageous, a clean or dry brush being frequently in demand.

No. 0, 11d.	*No. 3, 1/4	*No. 8, 3/-	No. 14, 6/6
No. 1, 1/0	*No. 5, 1/9	*No. 10, 4/-	No. 18, 10/6
No. 2, 1/2	No. 7, 2/6	No. 12, 5/-	No. 33, 30/-

Extra small size for detail work. .A, 3d. B, 4d. C, 5d. D, 6d.
*Nos. 3, 5, 8 and 10 are also supplied "straight cut" for use with the "Hopper."

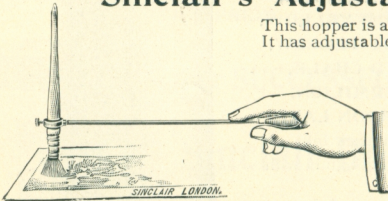
The "Mortimer" Brush.

This brush is made of long and fine hog hair, shaped like our Fitch brushes, and will be appreciated by those who desire broad effects. It is used by the Editor of the *Amateur Photographer*.

No. 1— $\frac{3}{4}$ inch 5/-	No. 3— $1\frac{1}{4}$ inch 8/-
No. 2—1 inch 6/6	No. 4— $1\frac{1}{2}$ inch 10/-

Sinclair's Adjustable Hopper.

This hopper is almost essential for every worker. It has adjustable grip and polished wood handle.



No. 1. The most useful size for all brushes to No. 10, 1/0 each
No. 2. For large brushes to No. 18 2/0 each
Hopper Brushes—
No. 3, 1/4; No. 5, 1/9; No. 8, 3/0; No. 10, 4/0.

Sample Outfits. (For Prints $6\frac{1}{2} \times 4\frac{3}{4}$ inches.)

For the Oil Process.

1 No. 8 Brush; 1 "B" Brush; 1 Pot Pigment; 1 Tube Medium; 1 packet Oil Pigment Paper; 1 Bottle Spirit Sensitizer, 6/8

For the Bromoil Process.

1 No. 8 Brush; 1 "A" Brush; 1 doz. Bromide Paper; 1 Bromoil Solution; 1 Pot Pigment; 1 Tube Medium, 7/0.

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SINCLAIR'S "HEWITT"

Pigmenting and Retouching Desk.



The Best Desk for Oil and Bromoil Work.

The Best Desk for Spotting,

The Best Desk for Retouching.

The Best Easel.

The Best Desk for Trimming Prints.

Although primarily intended for pigmenting Oil and Bromoil Prints this desk will be found an exceedingly useful adjunct in every work-room.

The "Hewitt" Desk is in general form, like a retouching desk with a substantial base, containing a large drawer, $19 \times 19 \times 1\frac{1}{2}$ inches, in which all requisites for pigmenting, spotting and retouching may be kept.

The hinged frame above the base holds a sheet of plate glass, 18×18 inches, and this glass supports the wet blotting paper on which the print is placed for pigmenting at a convenient angle. Above the frame and attached to it by sliding hinges, so that it may be removed when desired, is a cover, consisting of a mahogany frame in which is recessed a sheet of metal. When this cover is closed over a wet oil or bromoil print the moisture is retained, and the print may be kept in good condition for days, should it not be possible to ink it immediately.

The "Hewitt" Desk for Retouching. A sliding bar, which clamps on to the framework of the desk, may be adjusted to any desired position for supporting negatives resting on the plate-glass surface and converts the apparatus into an exceedingly rigid and effective retouching desk. A sheet of white paper on the base of the desk forms an admirable reflector for reflecting light through the negative.

The "Hewitt" Desk for spotting prints or as a work-room table. For this purpose the cover folds down over the glass and forms an excellent and clean desk that may be used flat or at a convenient angle.

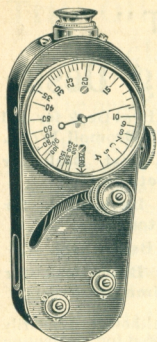
The "Hewitt" Desk as an Easel. The work being finished, the desk may be set nearly vertical and the print is examined in comfort. Mounted prints are supported by a ledge at the bottom of the desk.

For many purposes the "Hewitt" Desk will be appreciated. It is exceedingly handy for trimming, mounting, or indeed any work-room purpose where a clean table or desk is necessary.

The "Hewitt" Desk, made in polished mahogany, with 18×18 plate glass, adjusting carrier, and cover as described,

£2 2 0 Nett Cash.

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The Ideal One-Man Range Finder.

**Sinclair's No. 2 Owen
TOPOMETER. (PATENT).**

"This Remarkable Instrument."—*The Broad Arrow.*

"The Ideal Range Finder. This beautiful instrument combines the 'desiderata' of lightness, portability, simplicity and accuracy."—*War Office Times and Naval Review.*

"That this clever invention will meet with the success it undoubtedly deserves would appear a foregone conclusion."
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THE TOPOMETER DOES NOT NEED A DEFINITE BASE,
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The only instrument which gives a graphic and indisputable record of time taken by a train to pass over a measured distance, and which also shows the number of axles in the train and the relative times of their passing a fixed point.

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