

LP 1399
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DESCRIPTIVE CATALOGUE
AND
PRICE LIST
OF
PHOTOGRAPHIC APPARATUS
MANUFACTURED BY
E. & H. T. ANTHONY & CO.,
INCLUDING ALL THE
DESIRABLE GOODS
IN THE LINE OF
PHOTOGRAPHIC MATERIALS.

NEW YORK:
E. & H. T. ANTHONY & CO., NO. 591 BROADWAY.
NOVEMBER, 1893.

LET EVERY PHOTOGRAPHER READ THIS

The goods enumerated in this Catalogue can be had on reasonable terms of all local dealers.

Photographers often send to New York under the supposition that local dealers charge them too high prices. They will see by this Price List that such is not the case. On the other hand, if goods are offered them lower than these prices, that fact gives good ground for caution in buying, as first quality goods cannot be made for nothing.

As prices of all kinds of goods fluctuate, this Catalogue gives merely their value at the date of its issue. It will answer, however, as an approximate guide in estimating the cost of an outfit or an invoice.

When our goods cannot be obtained of a local dealer, they can be had by sending direct to us.

Later Novelties will be found published from month to month in the columns of the BULLETIN, a special number of which we shall be pleased to send to any address, and also our circulars and catalogues.

THE BEST STUDIO CAMERA.

In selecting Cameras for studio work we recommend those described on pages 23 to 30 inclusive, as they contain all of the later improvements, being substantially and elegantly finished, strength and solidity not being sacrificed for lightness. They will last a lifetime with proper care.

We call particular attention to the above, from the fact that a camera too lightly made (as some are) will warp and get out of shape by continual use under the sky-light. For outdoor work, where the weight of the camera is a consideration, we have provided the very acme of lightness in the "Novelette," "Fairy," "Phantom," "Normandie," "Climax View," "Vincent," "Compact," "Victor" and "N. P. A." Cameras.

In ordering new Holders for cameras now in use, we would advise you to send to us your old Holder if possible; if not, to give the exact size by laying the Holder, or part wanted, on a paper and making a diagram of the same, also giving the focus of the ground glass. Holders, or parts, to fit cameras made years ago, or by other manufacturers, are difficult to make without accurate description and measures.

To the Trade.

The revised Catalogue of Photographic Supplies we now have the pleasure to offer, will be found as complete, and possibly more to be relied on, than any that have preceded it.

The prices, too, will bear favorable comparison; and in quality our manufactures are known to be unsurpassed.

Our goods, though made more particularly for home use, are very largely in demand in foreign lands, and none have ever given such general satisfaction to the photographer, whether in the West Indies, Central or South America, Europe, China, Japan, or elsewhere.

They may be very generally purchased of the dealers in photographic stock, and, if not, they may be procured directly from our house.

In ordering lenses or apparatus, kindly give the numbers and description in full, and also state the folio in the catalogue from which they are selected; much loss of time and inconvenience will also be avoided by giving diagrams and dimensions of special plate holders, when required to match.

We implicitly follow instructions as to shipment, etc., wherever possible, but reserve the privilege of substituting a better for an inferior article, when any real improvement is effected in its manufacture or preparation, every manifest or desirable modification in apparatus or materials being at once availed of.

Finally, the interests of our customers, as well as our own, will be often subserved by anticipating your wants, and the danger of delay will be correspondingly diminished.

We invite a careful and critical examination of the following pages.

TERMS

Cash, or Collect on Delivery.

Persons unknown to us will remit part of the estimated amount of bill with order, remainder to be sent C. O. D.

Orders for shipment per freight lines must be accompanied with the amount of invoice.

As prices of all kinds of goods fluctuate, this catalogue gives merely their value at date of issue.

We pack with the utmost care, but we cannot be accountable for breakage in transportation.

New customers, seeking to establish a line of credit, will avoid delay by sending their references with order.

When goods are to be sent by mail, amount of postage must accompany remittance.

Orders for goods not made or kept in stock by us will be filled with the understanding that such goods cannot be returned, or the prices, which we are obliged to charge, altered.

SELECTION OF LENSES.

To select a Lens, suitable for certain purposes, is a matter of considerable difficulty, even for an adept in Photography, and we are sure that a few words from us, which will aid in making proper selections, will not be found amiss.

There are such a variety of claims made for different Lenses, that we are not surprised at the many inquiries we receive as to the various conditions involved.

While results in Photography depend to a great extent upon personal skill and experience, the basis of all good work is always the Lens. The Camera, and its adjuncts as well, may be more or less crude, but that part of it which gives the photographic image, the Lens, should be of as high grade as possible, so as to give a correct representation of what it is desired to retain in the form of a picture. From a false understanding of the subject, many persons endeavor to economize by purchasing a cheap and in many cases a useless Lens, unmindful of the fact that instead of acquiring what will always be a source of pleasure, they are burdening themselves with what will be a continual cause of annoyance and dissatisfaction. The outcome is, that such Lenses are almost always discarded and become a loss, while others of known reliability are purchased. In other cases Lenses are purchased, wholly unsuited to the purpose to which they are put, with usually the same result.

Achromatism is the first condition in a good Lens. It is that quality which brings the chemical rays, or those which produce the photographic image, in exact coincidence with visual rays, or those which make the image apparent to the eye on the ground glass. A slight deviation from perfect achromatism will produce the photographic image either in front of or behind the plate, and will therefore cause in distinctness. This may sometimes be partially corrected by the use of small stops, but when it exists it is always a serious fault.

Angle of View depends upon the proportion of focal length to the size of plate, and is expressed by the angle produced by the extreme rays forming the image. Lenses of the rectilinear type have an angular aperture varying from 40 to 70 degrees. Those giving an angle of from 85 to 100 degrees are termed Wide Angle. Owing to the large apertures of the lenses in these latter, and their inability to combine the rays on the edges of the plate, it becomes necessary to use them with small stops to obtain good results. This involves another quality.

Speed or rapidity represents the quality of forming a correct image within a given time, and depends upon the proportion of working aperture to length of focus. It depends upon the quality of the Lens in design and mechanical execution, and is the principal feature in determining the quality of a Lens from an optical standpoint, providing its other qualities are of corresponding perfection. At this day, when instantaneous photography is so generally practised, it is of the greatest importance, not only as a quality in itself, but of the ability of the Lens to give with it a sharp, clearly defined picture. While the rapidity of a Lens depends, to some extent, upon its angle, the aperture through which the light passes, or the size of the stop, determines it. The speed decreases proportionately with the decrease in the size of stop. In this regard the recommendation of the English Society is now generally followed, by which each succeeding smaller stop requires double the exposure

of the preceding. By this system the stops are designated 8, 16, 32, etc., but their relative value to focal length is also used. The f -8 is one-eighth of the equivalent focal length, and really expresses the value of the speed. From this it will be seen that the focal length is as great a factor as the aperture.

Depth of Focus is another important quality, and represents the degree of sharpness with which objects lying at different distances in front of the Camera are shown at the same time on the plate. It depends upon the focal length, angle of view and working aperture, and increases with the decrease of these three factors. As can easily be determined by experiment, an object close to the Camera will be found to have a longer posterior focus than one at a distance, and no Lens can ever be constructed which, with full aperture, will bring the two in one plane, so that the advertised claims which are made for a large number of Lenses, of great speed with great depth of focus, may be put down as false. The extent to which a Lens possesses speed and depth of focus is variable, however, and depends upon the skill of the Optician; but it may be added that under the same conditions the depth increases with the decrease in focus, as there is less variation between the different planes at the back for the different distances at the front of the Lens. For this reason it is that only short focus Lenses can have approximately a "Universal focus." If plates would be constructed of such sensitiveness as to admit of the use of small apertures, depth of focus would be the result to a much higher degree, but this attainment depends upon the Chemist and not upon the Optician. A Lens may be made to have approximately a Universal focus for a $3\frac{1}{2} \times 4\frac{1}{2}$ inch plate, and even 4×5 inch plate, but here it ceases.

Flatness is the quality of defining an object equally well upon the entire surface of the plate, but can never be wholly accomplished, because in the nature of things there is a certain amount of curvature. It depends upon the angle, aperture and focus, but after these conditions, entirely upon the skill of the Optician, and in this respect probably the greatest difference is apparent in Lenses coming from the hands of different manufacturers. With many Lenses it is found necessary to use one intended for a certain plate on one or two sizes smaller, to obtain satisfactory results.

Definition is the capacity to concentrate the rays to one point so as to give a sharp, clearly defined image. It is of the greatest importance, as it shows principally the amount of care which has been devoted to the Lens during its construction. Any Lens not having this property in the highest degree may be put down at once as of inferior quality. The fault is overcome, only partially, however, by reducing the aperture, but this is, of course, at the sacrifice of speed. When due to non-achromatism it may be determined by observing whether the visual image is sharp and chemical image, or photograph, indistinct, although in this case great care should be observed that the ground glass and plate are in exact coincidence, which very often is not the case. When due to faulty construction or workmanship, it can easily be determined by observing the image on the ground glass. The image should be an exact representation of the real object in detail, and should be determined by the aid of a magnifier or focusing glass.

Testing Lenses is a matter of no small importance, and should be done with the greatest care and regard to the points mentioned above. As speed, depth and flatness are varying qualities in different Lenses, we emphatically recommend that they be not judged in a Lens by themselves, but in comparison with another Lens of about the same proportion, preferably with one of known excellence. A person well experienced in photography may be able to form a correct judgment, but one who is not, cannot do so with security. Care should be taken that comparisons be made under the same conditions as to light, size of stop and time of exposure, and if indefinite, should be repeated.

THE DALLMEYER LENSES.

The extraordinary unanimity of opinion regarding the excellence of Mr. Dallmeyer's lenses, both in Europe and America, is one of the most gratifying evidences of their great superiority. There is not a photographer of any note on either side of the Atlantic who is not the possessor of one or more—some can count them by the dozen—and the difference in cost between these and the inferior ones is very slight, when their great superiority is considered. None others approach them, and they have long been justly held to be the most indispensable of all the requisites of the art.

In the quality of the glass used; in the perfection of finish and adjustment; in softness, crispness and depth; in rapidity, delicacy, and every quality a lens should possess, the Dallmeyer Lenses are unrivaled. With or without diaphragms, they are better adapted to the particular work in hand than any others ever made, and every kind of photographic requirement is provided for. Before purchasing, carefully read the information contained in the catalogue, particularly that regarding the series of Rapid Rectilinear and the Wide Angle Rectilinear.

To those, however, with whom the first cost of the Dallmeyer Lenses is more or less prohibitory, we would recommend the line of E. A., Platyscope or Aristoscope Lenses, which we have found more to be depended on than any low-priced lenses in the market; in fact, the finest results we have yet seen—not made with the Dallmeyer Lenses—were made with the latter, that have no equals at the price. Too much care cannot be given to the selection of a lens.

The first requirement in making Photographs of great merit, whether for Portraiture, Landscapes, Architectural Views, or Copying, is a lens that in skilled hands promises the very best results. Those who excel uniformly select Dallmeyer lenses, and pronounce them indispensable.

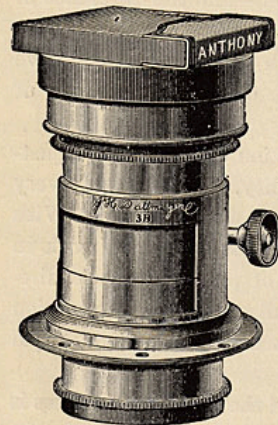
The PATENT PORTRAIT combinations have an adjustment of the back lens by which a diffusion of focus or depth of definition is obtained. This is not found in any other make. They also have a full set of the Water-house Diaphragms in Morocco Cases.

Mr. Dallmeyer's line of Lenses is the most complete of any in market, embracing everything that can be wanted for any possible operation.

DALLMEYER'S QUICK-ACTING PORTRAIT LENSES.

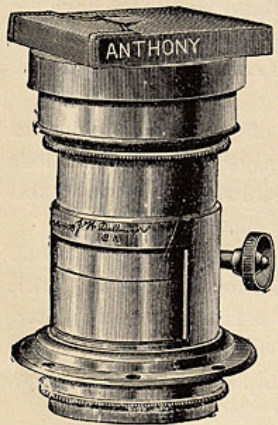
(Introduced November, 1860) especially constructed for CARTE DE VISITE PORTRAITS.

- No. 1 B. PORTRAIT LENS, consisting of two achromatic combinations, mounted in tube, with rack and pinion movement, the lenses 2 in. diameter, and $4\frac{1}{2}$ in. focal length from the back glass, producing pictures on plates $4\frac{1}{2}$ by $3\frac{1}{2}$ in. and under..... \$51 50
- Distance between the subject (5 ft. 8 in. high) and the lens, for a figure $2\frac{1}{2}$ in., from 12 to 13 feet. The Lenses can be had in pairs, or four, of exactly equal foci.
- No. 1 B (Long). Diameter of Lenses $2\frac{1}{2}$ in., back focus $4\frac{1}{2}$ in., distance from 14 to 15 ft. for above standard..... 55 50
- This lens is constructed to meet the requirements of those photographers who desire to use a longer focus lens than No. 1 B, but who have not sufficient length of gallery for No. 2 B.



DALLMEYER'S PATENT PORTRAIT LENSES (B). QUICK-ACTING LENSES

- No. 2 B. PATENT LENS, with rack and pinion movement. Diameter of Lenses $2\frac{1}{2}$ in., and back focus 6 in. Especially constructed for CARTE DE VISITE Portraits. Distance between subject and lens for a standing figure, 18 ft..... \$109 00
- No. 3 B. Ditto, ditto. Diameter of Lenses $3\frac{1}{2}$ in., and back focus 8 in. Especially constructed for the NEW CABINET Portraits. Distance between subject and lens for a standing figure, 18 ft..... 164 00
- No. 4 B. Ditto, ditto. Diameter of Lenses $4\frac{1}{2}$ in., and back focus 12 in., for pictures $8\frac{1}{2}$ x $6\frac{1}{2}$ in. Distance for a Cabinet Portrait 25 ft..... 328 00



DALLMEYER'S PATENT PORTRAIT LENSES (A). OF THE ORDINARY INTENSITY OR RAPIDITY.

- No. 1 A*. PATENT LENS, with rack and pinion movement. Diameter of front and back combinations, $2\frac{1}{2}$ and $2\frac{3}{4}$ in. respectively, and 6 in. back focus; for pictures $5\frac{1}{2}$ x 4 in. \$106 50
- No. 2 A*. Ditto, ditto. Diameter of front and back combinations, $3\frac{1}{2}$ and $3\frac{3}{4}$ in. respectively; 10 in. back focus; for pictures $6\frac{1}{2}$ x $4\frac{1}{2}$ in. 148 00
- No. 3 A*. Ditto, ditto. Diameter of Lenses 4 in., and 12 in. back focus; for pictures $8\frac{1}{2}$ x $6\frac{1}{2}$ in. 224 00
- No. 4 A. Ditto, ditto. Diameter of Lenses $4\frac{1}{2}$ in., and 14 in. back focus; for pictures $10\frac{1}{2}$ x 8 in. 316 00

* These lenses are well adapted for the New Cabinet Portraits, according to length of gallery. Thus, No. 1 A requires a distance of 14 feet between subject and lens (not recommended if a longer focus lens can be used), No. 2 A, 20 ft., and No. 3 A, 24 ft.

- No. 5 A. IN RIGID MOUNT. Diameter of Lenses 5 in., and 18 in. back focus; for pictures $15\frac{1}{2}$ x 12 and under..... \$410 00
- No. 6 A. Ditto, ditto. Diameter of Lenses 6 in., and 22 in. back focus; for pictures $20\frac{1}{2}$ x 16 in. and under..... 492 00

DALLMEYER'S "EXTRA" QUICK-ACTING PORTRAIT LENSES.

Possessing the greatest possible rapidity consistent with perfect definition. Especially constructed for Portraits of Children, but generally useful also for Vignettes, Cartes de Visite, Locket Portraits, etc.

- No. 2 C. PORTRAIT LENS, with rack and pinion movement; the lenses $2\frac{1}{2}$ in. diameter and $4\frac{1}{2}$ in. focal length from the back glass; for pictures on plates $4\frac{1}{2}$ x $3\frac{1}{2}$ in. and under..... \$129 00
- This Lens produces pictures in one-half the time of No. 1 B (long), but the field of view is not so flat; hence, for STANDING figures, a stop must be used.
- A MINIATURE LENS. Ditto, ditto. The lenses $1\frac{1}{2}$ in. and $1\frac{3}{4}$ in. diameter respectively, and 2 in. focus from the back glass; for pictures on plates 2 in. by 2 in., and, when used with stops, for $3\frac{1}{2}$ in. by $2\frac{1}{2}$ in. 47 00
- A MEDALLION LENS. Diameter of combinations $\frac{1}{2}$ in., back focus 1 in., in a rigid mount, without stops..... 20 50

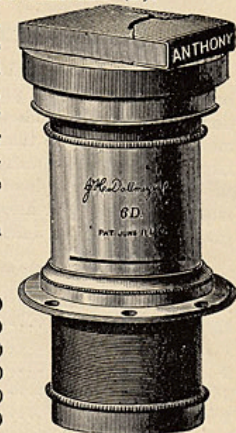
DALLMEYER'S PATENT PORTRAIT AND GROUP LENSES (D).

These Lenses are perhaps the most generally useful instruments a photographer, more especially the amateur, can be possessed of. Thus, with the full opening they are well adapted to portraiture in the studio (as for groups, studies, large heads, etc.); possessing four times greater intensity than the well-known Triple Achromatic Lens; and, when used with smaller stops, these new Lenses answer equally well for outdoor photography, such as architectural views, landscapes, etc. They are entirely free from distortion and flare.

With the exception of No. 3 D, the Lenses are mounted in rigid settings, i. e., without rack and pinion movement.

	Dia. of Lenses.	Back focus.	Size of Group.	Size of View.	
No. 3 D* Patent,	$2\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$ x 6 $\frac{1}{2}$	10 x 8....	\$78 00
" 4 D*	$2\frac{3}{4}$	13	10 x 8	12 x 10....	111 00
" 5 D	$3\frac{1}{2}$	16	12 x 10	15 x 12....	143 50
" 6 D	4	19 $\frac{1}{2}$	15 x 12	18 x 16....	217 50
" 7 D	5	24	18 x 16	22 x 20....	394 00
" 8 D	6	30	22 x 20	25 x 21....	475 00

* Distance for a Cabinet Portrait with No. 3 D, 18 feet; with No. 4 D, 25 feet.



DALLMEYER'S NEW PATENT STEREOGRAPHIC LENS.

Especially constructed for Instantaneous Views, Small Portraits, Groups, Interiors, Landscapes, etc.

This new Lens is entirely free from distortion; embraces an angle of about 60 deg.; and, when used with the smallest central diaphragm, it is practically free from flare or a central spot.

Diameter of front and back combinations $1\frac{1}{2}$ in. and $1\frac{1}{4}$ in. respectively, and $3\frac{1}{2}$ in. focus from the back glass (equivalent focus 5 inches).

In sliding mount, pair..... \$70 00

Ditto, ditto, with rack and pinion movement, pair..... 78 00

When the Lenses are used in pairs, and the posterior Lens is unscrewed to obtain diffusion of focus, care should be taken that the amount of unscrewing or separation is exactly alike in both, as is indicated by divisions and index, in order to preserve identity of focus, etc.

N.B.—The front combination can be used alone and intact (focal length 8 inches), simply by unscrewing and dispensing with the back combination, when, with a small-sized stop, it will be found to cover the $7\frac{1}{2}$ by $4\frac{1}{2}$ plate.

For very short operating-rooms this Lens can also be used for Cartes de Visite.

DALLMEYER'S QUICK-ACTING STEREOSCOPIC LANDSCAPE LENSES.

"I have used them most of the season, and like them very much."—*Extract from a Letter by George W. Wilson, Aberdeen.*

No. 1. $1\frac{1}{2}$ in. diameter, $4\frac{1}{2}$ in. back focus, in rigid mount, with rotating stops, pair, \$33 00
No. 2. $1\frac{1}{2}$ " " 6 " " " " " " " " 37 00

This Lens has been especially constructed for pure "Landscape" photography, for which it possesses the following advantages over multiple or non-distorting lenses. It has only two reflecting surfaces, and therefore produces more brilliant pictures, free from all fog and flare whatever; the illumination also is practically equal from center to margin of the picture, and the definition is perfect with a comparatively large aperture—or, in other words, it is quicker acting.

DALLMEYER'S RECTILINEAR STEREO. LENSES.

Especially constructed for Architectural and Landscape Views in confined situations.

Diameter of front combination, $\frac{1}{2}$ in.; back focus, $2\frac{1}{2}$ in. (equivalent focus, 3 in.); mounted in rigid setting, with rotating diaphragm plate, pair..... \$65 50

DALLMEYER'S NEW WIDE-ANGLE LANDSCAPE LENS. (Patent.)

This is a single combination landscape lens, working at an intensity of $\frac{1}{4}$, and is the best lens for landscapes, pure and simple, embracing large angles. Being a single combination, like the rapid landscape, it has but two reflecting surfaces and therefore produces a more brilliant picture than the wide-angle multiple lenses. It works with a proportionally large stop, *i. e.*, it is quicker in action and the illumination is more equally distributed from the center to the margin of the plate. Being composed of three lenses cemented together it is superior to the old Meniscus, composed of two, inasmuch as it produces less distortion, gives better marginal definition and is of much smaller size.

The Lenses are mounted in "Rigid" Tubes or Settings, with "Rotating" Stops.

No.	Size of Plate.	Diameter of Lenses.	Equivalent Focus.	Price.	Remarks.
1A.....	5 x 4	$1\frac{1}{2}$	$5\frac{1}{2}$	\$26 50	No. 1A and No. 1 are
1.....	$7\frac{1}{2}$ x $4\frac{1}{2}$	$1\frac{1}{2}$	7	31 00	made to screw into
2.....	$8\frac{1}{2}$ x $6\frac{1}{2}$	$1\frac{1}{2}$	$8\frac{1}{2}$	37 00	the same flange as
3.....	10 x 8	$2\frac{1}{2}$	10	45 00	No. 1 Triple Achro-
4.....	12 x 10	$2\frac{1}{2}$	12	57 50	matic Lens.
5.....	15 x 12	$2\frac{1}{2}$	15	70 00	Nos. 2 and 3 screw into
6.....	18 x 16	3	18	86 00	No. 2 Triple Achro-
7.....	22 x 20	$3\frac{1}{2}$	22	115 00	matic flange.
8.....	25 x 21	$4\frac{1}{2}$	25	155 00	

DALLMEYER'S WIDE-ANGLE RECTILINEAR LENSES. (Patent.)

These Lenses embrace angles of pictures from 90 to 100 deg., and enable photographers to take views of buildings, interiors, etc., in confined situations, where lenses of longer focus cannot be used, and where absolute rectitude of lines is imperative.

The Wide-angle Rectilinear Lens has the following advantages over existing non-distorting double-combination lenses: It is entirely free from a central spot. It can be used with a larger stop, *i. e.*, it is quicker in action. It produces a more brilliant picture.

The lenses of which it is composed are smaller and thinner, for a given sized plate, than those of other lenses intended for the same size of picture.



DIMENSIONS AND PRICES.*

The lenses are mounted in rigid settings or tubes, and each is furnished with a rotating diaphragm plate. In the column below, the largest size of plate covered by each lens is recorded; and if microscopic definition up to the corners be required, the smallest or smallest but one stop should be used.

No.	Largest Dimension of Plate.	Dia. Front Combination.	Back Focus.	Equivalent Focus.	Price.	Remarks.
1AA ..	$7\frac{1}{2}$ x $4\frac{1}{2}$	$\frac{1}{2}$ in.	$3\frac{1}{2}$ in.	4 in.	\$37 00	No. 1A and No. 1 are
1A	$8\frac{1}{2}$ x $6\frac{1}{2}$	$1\frac{1}{2}$ "	$4\frac{1}{2}$ "	$5\frac{1}{2}$ "	45 00	made to screw into
1.....	12 x 10	$1\frac{1}{2}$ "	$6\frac{1}{2}$ "	7 "	61 50	the same flange as
2.....	15 x 12	2 "	$7\frac{1}{2}$ "	$8\frac{1}{2}$ "	86 00	the No. 1 Triple
3.....	18 x 16	2 " $\frac{1}{2}$	11 "	13 "	115 00	Achromatic.
4.....	22 x 20	3 "	14 "	$15\frac{1}{2}$ "	164 00	

* This Lens is also well adapted for Stereoscopic Views.

DALLMEYER'S RAPID RECTILINEAR LENSES.* (Patent.)

The Rapid Rectilinear Lens is emphatically "The Lens" for all kinds of out-door photography. It works at an intensity of $\frac{1}{2}$, and, although not so rapid as the D Lens, requiring nearly double the exposure, is superior to it for views because of its having only four, instead of six, reflecting surfaces. It is composed of two exactly symmetrical cemented combinations, and unlike most existing double combination cemented lenses, requiring small stops to cure the inherent excessive spherical aberration, the Rapid Rectilinear is aplanatic, *i. e.*, it works with the full opening. Hence its superiority for all kinds of quick out-door pictures, groups, instantaneous effects, landscapes, architectural subjects, or for dimly-lighted interiors. For copying and enlarging this lens is unrivaled. With smaller stops each lens covers the next larger, or even two sizes larger plates than those recorded, thus embracing angles of pictures from sixty to eighty degrees and this without any trace of flare or central spot. Many fine large portrait studies have been taken with this lens, and it is to be found in the possession of almost every photographer of eminence wherever the art is practiced. Either combination can be used singly as an ordinary landscape lens; focus, about twice that of the compound lens. Each lens is supplied with a set of Waterhouse Diaphragms. If required, any of the lenses marked below can be used, with smaller stops, for the next size larger view.

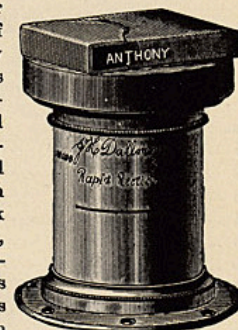
N.B.—It is recommended that all Rapid Rectilinear Lenses above the 12 x 10 size should always be focused with a medium stop (No. 3), whether the picture is to be afterwards taken with a larger or smaller stop. Each lens is constructed to give the greatest possible "depth of focus" which involves the above conditions.

Size of View or Landscape.	Size of Group or Portrait.	Diameter of Lenses.	Back Focus.	Equivalent Focus.	Price, Rigid Set.	Fitted with Iris Diaphragm.
$4\frac{1}{2}$ x $3\frac{1}{2}$ in.	$3\frac{1}{2}$ x $3\frac{1}{2}$ in.	$\frac{1}{2}$ in.	$3\frac{1}{2}$ in.	4 in.	\$31 00	\$34 00
5 x 4 " "	$4\frac{1}{2}$ x $3\frac{1}{2}$ "	$\frac{1}{2}$ "	5 "	6 "	37 00	40 00
5 x 6 " "	5 x 4 " "	$1\frac{1}{2}$ "	$7\frac{1}{2}$ "	8 "	45 00	48 00
$8\frac{1}{2}$ x $6\frac{1}{2}$ "	6 x 5 " "	$1\frac{1}{2}$ "	10 "	11 "	57 50	61 50
10 x 8 " "	$8\frac{1}{2}$ x $6\frac{1}{2}$ "	$1\frac{1}{2}$ "	12 "	13 "	74 00	80 00
12 x 10 " "	10 x 8 " "	2 "	15 "	16 "	90 00	96 00
15 x 12 " "	12 x 10 " "	$2\frac{1}{2}$ "	18 "	19 " $\frac{1}{2}$	123 00	133 00
18 x 16 " "	15 x 12 " "	3 "	23 "	24 " $\frac{1}{2}$	164 00	176 50
22 x 20 " "	18 x 16 " "	$3\frac{1}{2}$ "	28 "	30 "	222 00	234 50
25 x 21 " "	22 x 20 " "	4 "	31 "	33 " $\frac{1}{2}$	262 00	284 50

Fitted with Iris Diaphragms larger than 10 x 8, to order only.

5 x 4 furnished in matched pairs for stereo. work.

* The apertures of all stops or diaphragms supplied with Dallmeyer's lenses (portraits, views and landscapes) are so arranged that, counting from the largest to the next size smaller, the time of exposure is doubled. Stops marked X are exceptions to this rule, and require an exposure only half as long again as the preceding larger stop.



DALLMEYER'S NEW RECTILINEAR LANDSCAPE LENS.

This Lens works at an intensity, with the first stop, of $\frac{1}{16}$, and is therefore somewhat slower in action than the rapid landscape, requiring an exposure of about $\frac{1}{4}$ longer, and, similarly to those lenses, may be used with a larger aperture than the first stop. It is particularly constructed for views, architectural subjects, copying, etc., where it is essential that straight lines should be accurately portrayed, and has been constructed specially to meet this long-felt want in the form of a single combination.

No.	Largest Dimensions of Plate.	Diameter.	Equivalent Focus.	Price.
1	5 x 6 $\frac{1}{2}$ in.	1 $\frac{1}{2}$ in.	8 $\frac{1}{2}$ in.	\$39 00
2	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	11 $\frac{1}{2}$ "	49 50
3	8 x 10 "	2 "	13 $\frac{1}{2}$ "	65 50
4	10 x 12 "	2 $\frac{1}{4}$ "	16 $\frac{1}{2}$ "	84 00
5	12 x 15 "	2 $\frac{3}{4}$ "	20 "	102 50
6	16 x 18 "	3 "	25 "	131 00
7	20 x 22 "	3 $\frac{1}{2}$ "	32 "	172 90

DALLMEYER'S TRIPLE ACHROMATIC LENS.

(FREE FROM DISTORTION.)

For Architectural Views, Copying, etc., also for Landscapes and Groups.

No.	Size of View or Landscape.	Size of Group or Portrait.	Diam. of Back Combination.	Back Focus.	Price, Rigid Setting.
1	6 x 5 in.	5 x 4 in.	1 $\frac{1}{2}$ in.	7 in.	\$35 00
2	8 $\frac{1}{2}$ x 6 $\frac{1}{2}$ "	7 x 6 "	2 "	10 "	49 00
3	10 x 8 "	8 $\frac{1}{2}$ x 6 $\frac{1}{2}$ "	2 $\frac{1}{4}$ "	12 "	57 50
4	12 x 10 "	10 x 8 "	2 $\frac{3}{4}$ "	15 "	78 00
5	15 x 12 "	12 x 10 "	3 $\frac{1}{4}$ "	18 "	98 50
6	18 x 16 "	15 x 12 "	4 "	23 "	127 00
7	22 x 20 "	18 x 16 "	5 "	29 "	180 00
8	25 x 21 "	22 x 20 "	5 $\frac{1}{2}$ "	31 "	205 00

By removing (unscrewing) the central lens, and using the front and back combinations only, the back focus is shortened by about one-half; the time of exposure is now nearly the same as with the ordinary portrait lens, but the curvature of field is greater, and therefore it should only be used for vignette heads, or the like.

DALLMEYER'S RAPID LANDSCAPE LENS (Long Focus).

This is a single combination landscape lens specially constructed for obtaining large images in distant views, mountain scenery, balloon photography, etc. Each lens is supplied with a set of Waterhouse diaphragms, the apertures of the stops of these lenses being too large to admit of their arrangement in the form of a rotating diaphragm as supplied with the "wide angle" landscape series. It has a working intensity somewhat more than $\frac{1}{2}$ (or about twice as quick as the wide angle landscape lens), and in this condition is entirely free from outstanding spherical aberration, i. e., gives a perfectly defined image.

No.	Largest Dimensions of Plate. Inches.	Diameter of Lenses. Inches.	Equiv. Focus. Inches.	Price.
No. 1	4 $\frac{3}{4}$ x 6 $\frac{1}{2}$	1.3	9	\$37 00
" 2	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$	1.6	12	47 25
" 3	8 x 10	2.125	15	61 50
" 4	10 x 12	2.6	18	78 00
" 5	12 x 15	3.	22	94 50
" 6	16 x 18	3.5	25	115 00
" 7	20 x 22	4.25	30	144 00

COMPOUND TELE-PHOTOGRAPHIC LENSES.

	Mounted in Aluminium.	Mounted in Brass. (To order only.)
No. 1. Patent Stereographic Lens, with No. 1 Negative Attachment, Fitting Flange No. 4, i. e., 8 x 10 or 10 x 12 Rapid Rect.	\$82 00	\$74 00
No. 2. 1 B, Patent Portrait Lens, with No. 2 Negative Attachment, Fitting Flange No. 5	123 00	102 50
No. 3. 2 B, Patent Portrait Lens, with No. 3. Negative Attachment, Fitting Flange No. 7	184 00	162 50

DESCRIPTION.—These lenses mounted in aluminium are quite light. The negative attachment projects inside the Camera, the flange of the lens being one size larger than that for the lenses to which the attachment is made, respectively.

By the employment of the greater number of elements, greater excellence in the results is obtained, and distortion reduced to a minimum or practically eliminated.

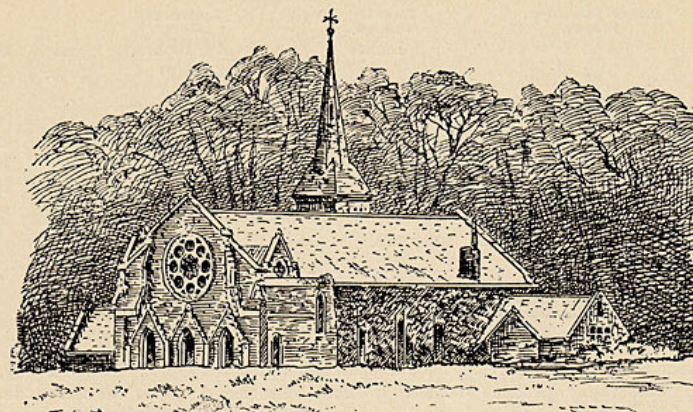


FIG. 1.—View of a church a half mile distant, taken with the new lens. Exact size of image on plate.

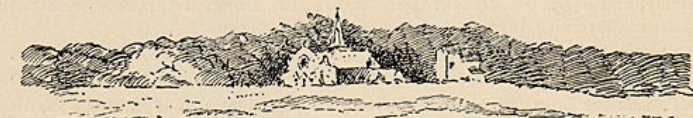


FIG. 2.—The same object taken from the same point with an 8 x 10 R. R. (13 inches equivalent focus). Exact size of image on plate.

The compound negative element consists of two symmetrical lenses, in appearance somewhat like the Rapid Rectilinear, but of negative focus, the lenses being so constructed that they can be mounted in close proximity to one another, thus obtaining the maximum angle.

The new Negative Combinations supplied to the above-mentioned lenses respectively have been chosen to give a sufficiently valuable increase in size of image, consistent with adequate illumination. Negatives of shorter foci can similarly be supplied to these lenses, but at the expense both of illumination and angle included.

PARTICULARS OF NEGATIVE ELEMENTS.

No.	Mounted in Aluminium.	Mounted in Brass.
No. 1.	\$41 00	\$31 00
" 2.	53 50	37 00
" 3.	74 00	53 50

These negative lenses can be adapted to existing or New Portrait Lenses of J. H. Dallmeyer's Patent Portrait Type. The reason for supplying these negatives to the Patent Portrait Form being that the movable back cell of this form of Portrait Lens permits of perfect correction as regards outstanding aberration to be attained for either near or distant planes, still maintaining the full aperture, which is a very important feature in this class of lens, to retain both maximum rapidity and maximum angle.

DALLMEYER'S EXTRA RAPID RECTILINEAR LENSES.

These Lenses work at an intensity of $\frac{1}{16}$; they are made of specially tested Jena glass, and are aplanatic. They produce very sharp and brilliant images, and are most suitable for instantaneous work in dull weather, when the intensity of $\frac{1}{8}$ is not sufficient. Nos. 1, 2 and 3 are unsurpassed for Hand Camera work. All are fitted with Iris Diaphragms.

No.	Largest Dimensions of Plate.	Diameter of Lenses.	Equivalent Focus.	Price each.
1	4 x 5	$\frac{1}{2}$ inches	$4\frac{2}{3}$ inches.	\$54 00
2	5 x 6	$1\frac{1}{4}$ "	$6\frac{2}{3}$ "	65 00
3	5 x 8	$1\frac{3}{4}$ "	$7\frac{2}{3}$ "	74 00
4	$6\frac{1}{2}$ x $8\frac{1}{2}$	$1\frac{1}{2}$ "	$8\frac{1}{3}$ "	86 00
5	7 x 9	$1\frac{3}{4}$ "	$9\frac{1}{3}$ "	102 50
6	8 x 10	$1\frac{3}{4}$ "	$9\frac{1}{3}$ "	121 00
7	10 x 12	2 "	$11\frac{2}{3}$ "	154 00

Larger sizes can be made to order, but above the 10 x 12 size the ordinary Rapid Rectilinear should be chosen in preference.

DALLMEYER'S NEW PATENT LANTERN LENSES.

Especially constructed for use with the Optical Lantern.

These Lenses (intended for use for exhibiting with the Optical Lantern *only*, and not for photography) produce the most brilliant enlargements upon the screen, true to the original, both in outline and coloring; they are free from all distortions, the images are well defined throughout, and the field is flat.

No. 1. Lantern Lens (patent) consists of two combinations, $1\frac{1}{2}$ and $1\frac{1}{4}$ in. diameter respectively, and $3\frac{1}{2}$ in. back focus (5 in. equivalent), mounted in tubes with rack and pinion movement; suitable for $3\frac{1}{2}$ -in. condensers.

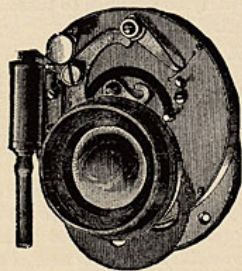
Price, each\$34 00
Condensers, $3\frac{1}{2}$ in. diameter, mounted, pair..... 43 00

No. 2. Lantern Lens (patent) consists of two combinations, $1\frac{1}{2}$ in. and 2 in. diameter respectively, and 4 in. back focus (6 in. equivalent) mounted in tubes, with rack and pinion movement; suitable for 4-in. condensers.

Price, each\$43 00
Condensers, 4 in. diameter, mounted, pair..... 51 75

To any one desiring a strictly first-class Magic Lantern, we recommend procuring both Lens and Condensers as supplied by Mr. Dallmeyer.

THE PERISCOPE LENS



Is a rectilinear combination of the wide-angle variety, having an angle of 80 degrees, and is suitable for taking interior and exterior views—a very satisfactory instrument for general open-air work.

The largest aperture, F-14, admits sufficient light for instantaneous views. The larger sizes are suitable for taking life-size portraits in the studio.

Nos. 3 to 7 are furnished with a pneumatic shutter, at a slight additional cost. This shutter works between the lenses and is a marvel of simplicity and compactness.

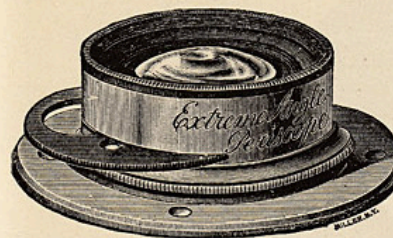
No.	Diameter of Lens.	Equivalent Focus.	Size of Plate Largest Stop.	Size of Plate Smallest Stop.	Price.	Price with Shutter.
1	$\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{2}$ x $2\frac{1}{2}$	$3\frac{1}{2}$ x $4\frac{1}{2}$	\$10 00	....
2	$\frac{3}{4}$	$4\frac{1}{2}$	$3\frac{1}{2}$ x $4\frac{1}{2}$	$4\frac{1}{2}$ x $6\frac{1}{2}$	10 00	....
3	$\frac{1}{2}$	6	4 x 5	5 x 8	12 00	\$19 00
3A	1	$7\frac{1}{2}$	$4\frac{1}{2}$ x $6\frac{1}{2}$	$6\frac{1}{2}$ x $8\frac{1}{2}$	13 50	20 50
4	$1\frac{1}{2}$	$8\frac{1}{2}$	5 x 8	8 x 10	15 00	22 00
5	$1\frac{1}{2}$	$10\frac{1}{2}$	$6\frac{1}{2}$ x $8\frac{1}{2}$	10 x 12	18 00	25 00
6	$1\frac{1}{2}$	12	8 x 10	11 x 14	22 00	30 00
7	$1\frac{1}{2}$	16	10 x 12	14 x 17	30 00	40 00
8	2	21	11 x 14	16 x 20	40 00	....
9	$2\frac{1}{2}$	25	14 x 17	20 x 24	60 00	....

THE EXTREME ANGLE PERISCOPE LENS.

For use where views of an unusually wide angle are desired.

This objective is a symmetrical combination, and is absolutely free from astigmatism and secondary image or "ghost," besides which it is achromatic and perfectly rectilinear.

As each lens is individually achromatized, the front one can be removed and the back one used as a single landscape lens of about double the focal length of the entire combination.



For instantaneous exposures on the plates quoted in the third column, it is advisable to use the pair of extension tubes, furnished with each instrument; this extends the length of tube considerably, confines the angle of illumination to about 60 degrees, and renders the field very flat.

To insert extensions, remove both front and back cells, screw one of the extensions in each end of mount, then screw in the cells containing lenses.

No.	Equivalent Focus.	Size of Plate Largest Stop.	Largest Plate Covered.	Largest Aperture.	Price.
1	2.9 in.	$2\frac{1}{2}$ x $2\frac{1}{2}$	5 x 7	f-10	\$24 00
2	3.6 "	3 x 3	$6\frac{1}{2}$ x $8\frac{1}{2}$	f-10	27 00
3	4.2 "	$3\frac{1}{2}$ x $4\frac{1}{2}$	8 x 10	f-10	32 00
4	5. "	4 x 5	10 x 12	f-14	40 00
5	5.9 "	$4\frac{1}{2}$ x $6\frac{1}{2}$	11 x 14	f-14	51 00
6	7.1 "	5 x 8	14 x 17	f-14	66 00
7	8.4 "	$6\frac{1}{2}$ x $8\frac{1}{2}$	16 x 20	f-16	87 00
8	10. "	8 x 10	20 x 24	f-16	116 00
9	12.6 "	10 x 12	25 x 30	f-16	150 00

THE RECTIGRAPHIC AND PERIGRAPHIC LENSES.

PATENTED DECEMBER 9, 1890.

The Rectigraphic and Perigraphic lenses consist of two aplanatic triplets of a novel device, which makes each lens capable of performing the work of three.

The brilliancy of the image, and especially the flatness of field and fine definition at the extreme margin of the plate, place these lenses very high in the esteem of those who have used them.

The two triplets constituting the new lenses are of different focal length, the back lens having a much shorter focus than the front lens, and the relative curvatures are so calculated as to secure perfect optical (not geometrical) symmetry of the compound, and, at the same time, to form perfect achromatic and aplanatic objectives, for themselves, if used singly. This novel plan offers the important advantage that these new lenses, the Perigraphic as well as the Rectigraphic, contain or consist of three objectives of different powers or focal lengths. The latter are of the following approximate proportion:

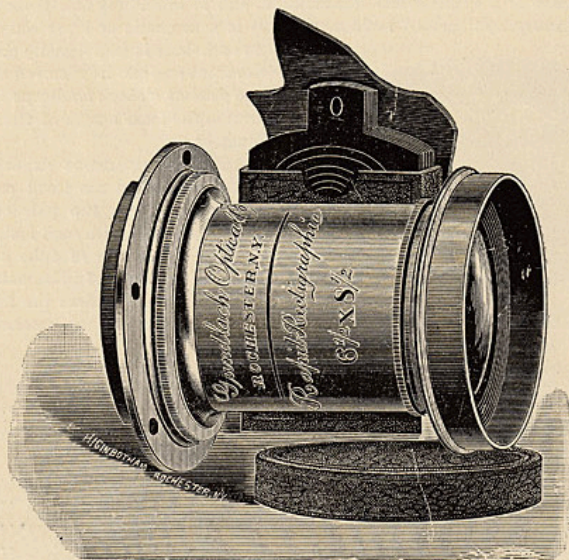
Equivalent of Compound 2.

Back lens alone 3.

Front lens alone 4.

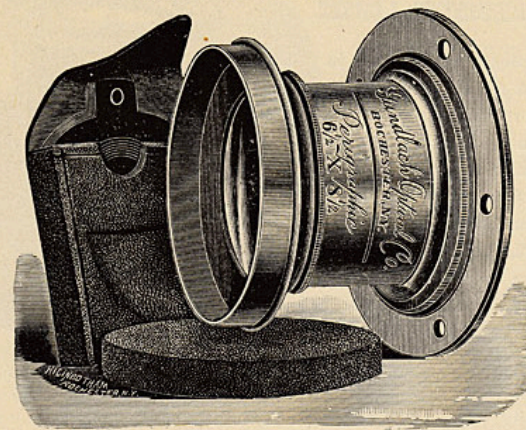
thus giving, on the same plate, pictures differing in size about as 2 to 3 to 4. To use the back lens alone, the front lens is to be removed and the hood screwed into its place. To use the front lens alone, the back lens is to be removed and the front lens screwed into its place, *i. e.*, the place of the back lens. The focal length of the compound and of each separate lens are engraved on the mounts of the lenses.

THE RAPID RECTIGRAPHIC LENS.



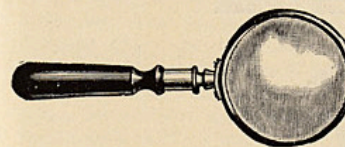
No.	Size of Plate.	Diam. of Lenses.	Equivalent Focus.	Focus of Back Lens.	Focus of Front Lens.	Price.
0	3½ x 4½	1½ in.	5 in.	8 in.	11 in.	\$14 00
1	4 x 5	1	6½	10	13½	20 00
1½	4½ x 6½	1½	7	11	14½	25 00
2	5 x 8	1½	8½	13½	18	30 00
3	6½ x 8½	1½	11	17	23	38 00
4	8 x 10	1½	13	20½	28	50 00
5	10 x 12	2	16	25½	34	64 00
6	11 x 14	2½	18½	29½	39½	76 00
7	14 x 17	2½	22	34½	47	100 00
8	17 x 20	3½	26	41	56	125 00

THE PERIGRAPHIC LENS.



No.	Size of Plate.	Diam. of Lenses.	Equivalent Focus.	Focus of Back Lens.	Focus of Front Lens.	Price.
0	4 x 5	1 in.	3½ in.	5½ in.	8 in.	\$18 00
1	5 x 7	1	5	8	11	28 00
2	6½ x 8½	1½	6½	10	13½	36 00
3	8 x 10	1½	8½	13½	18	46 00
4	10 x 12	1½	11	17	23	60 00
5	11 x 14	2½	13	20½	28	74 00
6	14 x 17	2½	16	25½	34	85 00

RETOUCHING GLASSES.



No. 202.	2 inch lens, each.	\$0 70
No. 204.	2½ " " "	0 90
No. 206.	3 " " "	1 25
No. 208.	3½ " " "	1 75
No. 210.	4 " " "	2 25
No. 260.	4½ " " "	2 50

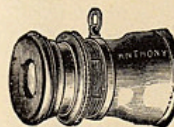
THE NEW DUPLEX FOCUSING GLASS.

Cheap and good. Price, \$1 25.



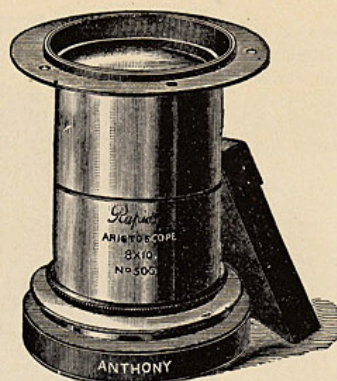
E. A. COMPOUND FOCUSING GLASS.

For fine work the E. A. Compound Focusing Glass is the best. It has a double compound lens. The price is \$2 50.



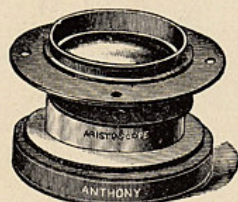
RAPID ARISTOSCOPE LENSES.

We have introduced these lenses in order to supply the demand for a first-class instantaneous instrument, giving rectilinear results, at a moderate price. They are unequaled at the price for instantaneous views, portraits, landscapes, architectural subjects, dimly-lighted interiors, copying, etc., etc. We urge those who intend purchasing a lens for such work to try the Aristoscope before deciding. We guarantee them to be unexcelled by any lens except the Dallmeyer. Sizes, prices, etc., as follows:



No.	Size of View.	Size of Group.	Diameter.	Equiv. Focus.	Price.
1	4 x 5	3 x 4½	1 inch	6 inches	\$24 00
2	5 x 8	5 x 6½	1½ "	9 "	32 00
3	6½ x 8½	5 x 8	1½ "	11 "	36 00
4	8 x 10	6½ x 8½	1¾ "	14 "	47 50
5	10 x 12	8 x 10	2 "	16 "	57 50
6	12 x 15	11 x 14	2½ "	20 "	80 00
7	16 x 18	14 x 17	3 "	24 "	100 00
8	18 x 22	16 x 18	3½ "	30 "	187 50
9	22 x 25	18 x 22	4 "	34 "	225 00

WIDE ANGLE ARISTOSCOPE LENSES.

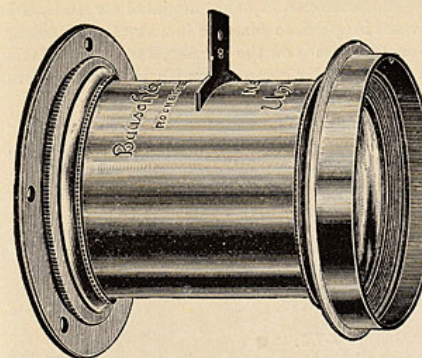


This lens is fast becoming a favorite, and where a really first-class instrument is required at a moderate price, cannot be excelled. It has great depth of focus, sharp and brilliant definition, and is rectilinear in its results. We would urge its trial, and feel confident that, if tested, its superiority will be made apparent.

No.	Size of View.	Diameter.	Back Focus.	Equiv. Focus.	Price.
1	5 x 6½	¾ inch	3½ inches	4 inches	\$25 00
2	6½ x 8½	1½ "	4½ "	5½ "	30 00
3	10 x 12	1½ "	6½ "	7 "	42 00
4	12 x 15	2 "	7½ "	8½ "	77 50
5	16 x 18	2½ "	11 "	13 "	103 50
6	20 x 22	3 "	14 "	15½ "	148 00
7	21 x 25	3½ "	17 "	19 "	222 00

RAPID UNIVERSAL LENSES.

These Lenses are of the Rectilinear, compound type, and are intended for studio and general outdoor photography. Every Lens is supplied with morocco cap and case and eight stops.



Nos.	Large Stop Covers.	Medium Stop Covers.	Diameter of Lenses.	Back Focus.	Equivalent Focus.	Largest Stop.	Price.	Extra if in Aluminium Mounting.
4½	3½ x 4½	4 x 5	1 in.	4½ in.	5½ in.	f6.7	\$16 00	\$4 00
5	4 x 5	5 x 8	1½ "	5½ "	6½ "	f7.0	20 00	4 50
8	5 x 8	6½ x 8½	1½ "	7½ "	8½ "	f7.0	24 00	5 00
8½	6½ x 8½	8 x 10	1½ "	10½ "	11½ "	f7.5	32 00	5 50
10	8 x 10	10 x 12	1½ "	12½ "	13 "	f7.5	44 00	6 00
12	10 x 12	12 x 15	2½ "	15 "	16 "	f8.4	56 00	7 00
15	12 x 15	16 x 18	2½ "	18 "	19½ "	f8.8	70 00	8 00
18	16 x 18	20 x 22	3½ "	22½ "	23½ "	f9.0	90 00	9 00
22	20 x 22	21 x 25	4½ "	28 "	30 "	f9.0	120 00	10 00

ALVAN G. CLARK LENSES.

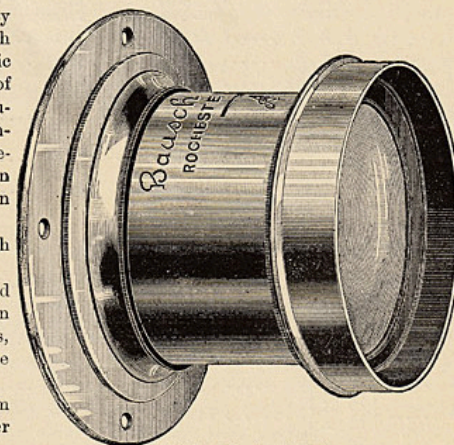
These Lenses are of such quality and capacity that they mark an epoch in the construction of Photographic Objectives. They are the invention of Alvan G. Clark, the celebrated manufacturer of telescopes, and are of a construction dissimilar from anything heretofore followed, and are as striking in their results as Mr. Clark's success in the telescope objectives has been.

These Lenses may be used with equal facility in three directions:

1. To all work to which the Rapid Rectilinear type may be adapted, when they give an angle of about 60 degrees, and in which capacity we enumerate them under List No. 1.

2. To all work requiring a medium angle objective, as enumerated under List No. 2.

3. When they may be used as Wide Angle Objectives, having an aperture of nearly 100 degrees, and as such they may be used with larger stop than other specially constructed Wide Angle Lenses. They are quite free from marginal distortion and magnified perspective, so common to Lenses of this class. As Wide Angle Lenses they are quoted under List No. 3. When using these Lenses in this capacity, care should be used in beveling the back of the front board, so as to allow free passage of the rays.



(Full Size, 6½ x 8½, A. G. C.)

The Lenses are uncemented, each Lens of the combination being mounted for itself, and are therefore free from danger of gradual decrease in speed, so common in many Lenses owing to the chemical change in the cement. The crown glass is on the outside, and therefore less liable to become scratched. The mountings are unusually compact, and each mounting has engraved upon it Mr. Clark's autograph as well as our firm name.

While these Lenses are intended to be used in all outdoor work, they are also particularly suited to copying, enlarging and photo-engraving work, and are superb for portraiture, particularly for groups, covering the plates for which they are rated, noticeably better than any others. Their characteristic qualities in almost every direction are of so high an order that we have no hesitation in claiming that they are superior to any Lens yet produced.

These Lenses, although classified under different lists, are marked as quoted in List No. 1.

LIST No. 1.

WORKING WITH STOP $f=7.5$.

Nos.	Size of Plate.	Diameter of Lenses.	Back Focus.	Equivalent Focus.	Price.	Extra if in Aluminium Mounting.
4 $\frac{1}{2}$	3 $\frac{1}{2}$ x 4 $\frac{1}{2}$	$\frac{3}{4}$ in.	4 $\frac{1}{2}$ in.	5 in.	\$18 00	\$4 00
5	4 x 5	$\frac{3}{4}$ "	5 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "	22 00	4 50
8	5 x 8	1 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	8 $\frac{1}{2}$ "	28 00	5 00
8 $\frac{1}{2}$	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$	1 $\frac{1}{2}$ "	10 $\frac{1}{2}$ "	11 "	36 00	5 50
10	8 x 10	1 $\frac{1}{2}$ "	12 $\frac{1}{2}$ "	13 $\frac{1}{2}$ "	48 00	6 00
12	10 x 12	2 $\frac{1}{2}$ "	15 "	16 $\frac{1}{2}$ "	60 00	7 00
15	12 x 15	2 $\frac{1}{2}$ "	18 "	19 $\frac{1}{2}$ "	78 00	8 00
18	16 x 18	3 $\frac{1}{2}$ "	22 "	23 $\frac{1}{2}$ "	100 00	9 00
22	20 x 22	4 $\frac{1}{2}$ "	28 "	29 $\frac{1}{2}$ "	140 00	10 00

LIST No. 2.

WORKING WITH STOP $f=12.0$.

Nos.	Size of Plate.	Diameter of Lenses.	Back Focus.	Equivalent Focus.	Price.	Extra if in Aluminium Mounting.
3	4 x 5	$\frac{9}{16}$ in.	3 $\frac{1}{2}$ in.	3 $\frac{1}{2}$ in.	\$14 00	\$4 50
4 $\frac{1}{2}$	5 x 8	$\frac{3}{4}$ "	4 $\frac{1}{2}$ "	5 "	18 00	5 00
5	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$	$\frac{3}{4}$ "	5 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "	22 00	5 50
8	8 x 10 } 10 x 12 }	1 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	8 $\frac{1}{2}$ "	28 00	7 00
8 $\frac{1}{2}$	12 x 15 } 16 x 18 }	1 $\frac{1}{2}$ "	10 $\frac{1}{2}$ "	11 "	36 00	9 00
10	20 x 22	1 $\frac{1}{2}$ "	12 $\frac{1}{2}$ "	13 $\frac{1}{2}$ "	48 00	10 00

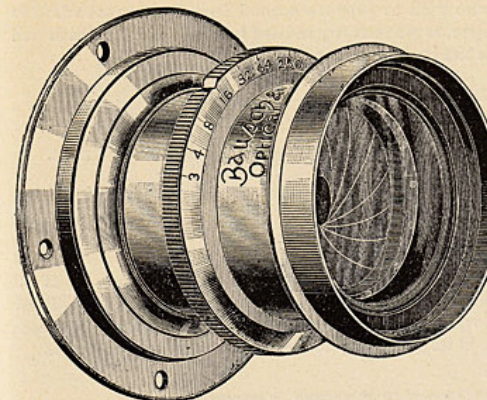
LIST No. 3.

WORKING WITH STOP $f=35.0$.

Nos.	Size of Plate.	Diameter of Lenses.	Back Focus.	Equivalent Focus.	Price.	Extra if in Aluminium Mounting.
3	5 x 8	$\frac{9}{16}$ in.	3 $\frac{1}{2}$ in.	3 $\frac{1}{2}$ in.	\$14 00	\$5 00
4 $\frac{1}{2}$	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$	$\frac{3}{4}$ "	4 $\frac{1}{2}$ "	5 "	18 00	5 50
5	8 x 10	$\frac{3}{4}$ "	5 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "	22 00	6 00
8	10 x 12 } 12 x 15 }	1 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	8 $\frac{1}{2}$ "	28 00	8 00
8 $\frac{1}{2}$	16 x 18 } 20 x 22 }	1 $\frac{1}{2}$ "	10 $\frac{1}{2}$ "	11 "	36 00	9 00
10	21 x 25	1 $\frac{1}{2}$ "	12 $\frac{1}{2}$ "	13 $\frac{1}{2}$ "	48 00	10 00

Lenses of the same number in each of the three lists are identical.

IRIS DIAPHRAGM.



(Full Size, 5 x 8, R. U., with Iris Diaphragm.)

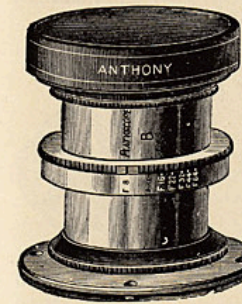
The advantages of the Iris Diaphragm over the system of loose stops are so apparent that we believe no argument in their favor is needed. We are making them in all sizes, and supply them to our own, as well as Lenses of other construction. The mountings are accurately made with a due regard for wear, and neatly finished. The revolving ring is provided with index, giving the exact size of diaphragm.

The Lens must be sent in all cases where an Iris Diaphragm is to be fitted.

THE PLATYSCOPE LENS.

Is another of the Rectilinear series of Aplanatic lenses, and while more moderate in price than the Dallmeyer or Aristoscope, gives most excellent results. Besides giving the equivalent focus and measure of plate they will cover with full opening, we also state the circle of light, the marginal sharpness of which will depend on the diaphragm used. We guarantee every one.

The Platyscope lenses are now fitted with Iris diaphragm in place of the central stops, the desired opening being obtained by merely turning the ring on body of tube, which shows exact measure of opening. In these there are no loose diaphragms to get lost.



No.	Full Opening. Inches.	Small Stop. Inches.	Circle. Inches.	Diameter. Inches.	Equiv. Focus. Inches.	Price.
B.	5 x 7	6 x 8	10 $\frac{1}{4}$	1 $\frac{1}{2}$	8 $\frac{1}{2}$	\$22 00
C.	6 x 8	8 x 10	14	1 $\frac{3}{4}$	11 $\frac{1}{2}$	27 00
D.	7 x 9	10 x 12	15	1 $\frac{3}{4}$	12 $\frac{1}{2}$	31 00
E.	8 x 10	11 x 14	19	2 $\frac{1}{2}$	15 $\frac{1}{2}$	37 00
F.	10 x 12	14 x 17	24	2 $\frac{3}{4}$	19 $\frac{1}{2}$	54 00
G.	12 x 15	17 x 20	32	3 $\frac{1}{2}$	24	80 00

LONG FOCUS PLATYSCOPE.

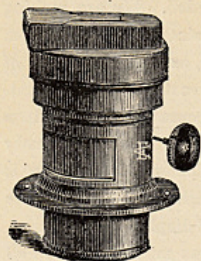
We have also some Platyscopes of longer foci, for use on distant objects, yachts, steamers, etc., where one desires them to be larger on the negative than when lenses of shorter foci are used. This makes possible the photographing of many things which would otherwise be impossible, as, for instance, views which from their distance would be too small to be of use. This lens, in fact, is exactly the reverse of a very short-focus wide-angle lens, and is as valuable in its way for special work as is the wide angle in its peculiar field.

Each lens is supplied with full set of diaphragms in a leather case.

No.	Full Opening.	Small Stop.	Back Focus.	Price.
AA.	5 x 7 inches	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$ inches	8 inches	\$22 00
BB.	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$ "	8 x 10 "	13 $\frac{1}{4}$ "	30 00

E. A. LENSES.

The attention of photographers who wish to procure a good lens, but cannot afford to purchase those made by J. H. Dallmeyer, is respectfully invited to the following, which will be found good and uniform, as well as the best for the price.



E. A. PORTRAIT LENSES. With Rack and Pinion.

Back Focus.	Inches.	Each.
1-4 Central Stop.....	4 1/4	8 75
1-3 " ".....	5	14 50
1-2 " ".....	6	17 50
4-4 " ".....	10	35 50

By removing the back combination, and screwing the front combination in its place, an excellent landscape lens is secured.

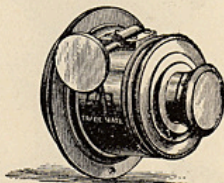
E. A. INSTANTANEOUS STEREO. LENSES.

For instantaneous outdoor views, for indoor stereo. groups, C. de V., etc., etc. These are so constructed that the back lenses can be removed and the front ones screwed in their places, thus making a pair of single combination landscape lenses. They are in matched pairs, have Waterhouse diaphragms in leather cases, and rack and pinion movement.

Price, per pair \$18 00

E. A. VIEW LENSES.

These are single combination lenses, used for landscape work only, but cover the plate very sharply. They have diaphragms in the front of the tube, and rack and pinion movement.

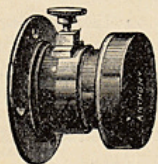


SIZES AND PRICES.

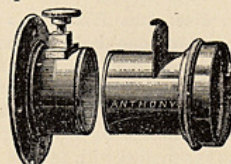
1-9 size, Stereoscopic,	6 1/2-inch focus, per pair.....	\$9 00
1-6 " " " "	9 " " " ".....	10 00
1-4 " for 4-4 View, 10	" " each,.....	6 00
1-3 " " 8 x 10 " 12	" " " ".....	7 25
1-2 " " 10 x 12 " 15	" " " ".....	9 00
4-4 " " 14 x 17 " 20	" " " ".....	18 00

E. A. RAPID LENSES (Hemispherical)

Have double achromatic combinations for making instantaneous views, portraits, groups, etc. The lens should be focused with the full opening. They are unusually fine lenses, and can be relied on as the best in the market for the price.



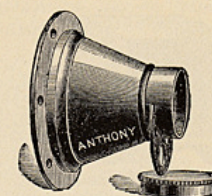
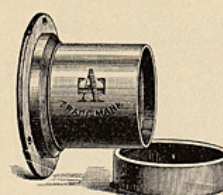
Lens ready for use.



Showing how the central stops or diaphragms are inserted.

No. 1, Rapid Lens, for 4 x 5 pictures.....	\$13 50
" 2, " " 5 x 8 " ".....	20 00
" 3, " " 8 x 10 " ".....	30 00

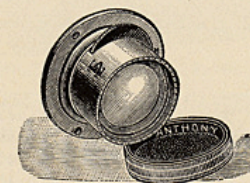
E. A. SINGLE COMBINATION LENSES.



No. 0, for 3 1/2 x 4 1/2 plates.....	\$3 50	No. 2, for 5 x 8 plates.....	\$4 50
" 1, " 4 x 5 " ".....	3 75	" 3, " 6 1/2 x 8 1/2 " ".....	7 00
No. 4, for 8 x 10 plates.....		\$7 00	

For ordinary landscape work these lenses give very brilliant effects, fully covering the plates specified. They are the best lenses in the market at the price. No. 0 is in straight nickerel mount with stationary diaphragm; Nos. 1 to 4 are in cone mounting with rotating diaphragm.

THE E. A. WIDE ANGLE LENS.



This lens, being of short focus and of wide angle, and made on the rectilinear principle, is a useful one for architectural photography, and is not equaled at the price by any in the market. Those who cannot afford the best—the Dallmeyer—will find this an excellent substitute.

No. 2, 5 x 6 1/2.....	\$15 00	No. 4, 10 x 12.....	\$25 00
" 3, 7 x 9.....	20 00	" 5, 14 x 17.....	35 00

CONDENSING LENSES.

These are plano-convex, made of the best crown glass, finely polished, and warranted.

Diameter.	Focus.	Each.	Diameter.	Focus.	Each.
5 1/2 inches.....	10 inches.....	\$7 50	12 inches.....	16 inches.....	\$40 00
6 ".....	15 ".....	5 00	14 ".....	18 ".....	55 00
8 ".....	20 ".....	12 50	15 ".....	20 ".....	65 00
9 ".....	21 ".....	13 50	16 ".....	21 ".....	75 00
10 ".....	25 ".....	15 00	18 ".....	25 ".....	115 00
10 ".....	20 ".....	22 00	20 ".....	35 ".....	160 00
10 ".....	14 ".....	26 00			

GEM TUBES.

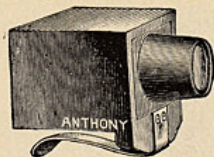
These are exactly the same in working as the portrait lenses above mentioned, but have neither rack-work, hood, nor central stops. They come matched—the one-ninth in sets of 4, 6 or 9 each; the quarter size in sets of 2, 4, 6 or 8.

1-9 size, 3 inches back focus.... Each, \$2 25 | 1-4 size, 4 1/4 inches back focus... Each, \$3 75

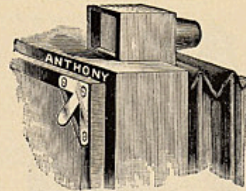
Brass Plates for above supplied as follows:

For four 1-9 Tubes on 1-4 plate, each, \$1 00 | For nine 1-9 Tubes on 5 x 7 plate, each, \$2 50
For four 1-4 Tubes on 5 x 7 plate, \$1 50.

ANTHONY'S UNIVERSAL FINDER.



Showing method of fastening
Finder to Camera.



Showing Finder on Camera.

This is a neat, compact article that can instantly be attached to any camera, and is of great value in composing a view. The object to be photographed being plainly visible, and occupying the same relative position as on the ground glass or plate; it is indispensable for instantaneous views of moving objects. It corresponds in shape to the ordinary negative. The ground side of the glass can be marked at will to denote position desired when taking instantaneous views.

Price..... \$1 50

FINDER LENSES.

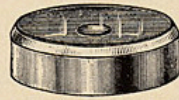
These Lenses are of first quality, and are furnished either double or plano-convex, with edges ground or unground.

No.	Diameter.	Focus.	Price with Edges Unground.	Price with Edges Ground.
1	$\frac{1}{2}$	$\frac{3}{4}$ to 2 inch.	\$0 40 each.	\$0 60 each.
2	$\frac{3}{4}$	$\frac{1}{2}$ to 2 "	40 "	60 "
3	$\frac{1}{2}$	1 to 2 "	40 "	60 "
4	$\frac{3}{4}$	1 $\frac{1}{2}$ to 3 "	40 "	60 "
5	$\frac{1}{2}$	1 $\frac{1}{2}$ to 3 "	50 "	70 "
6	$\frac{3}{4}$	2 to 3 $\frac{1}{2}$ "	50 "	70 "
7	1	2 to 4 "	50 "	70 "

CAMERA LEVELS.



No. 1.



No. 3.



No. 2.



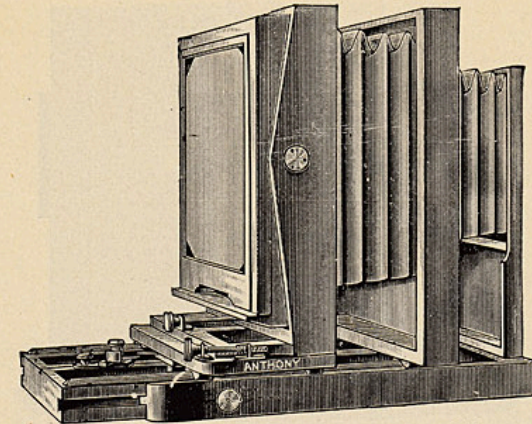
No. 4.

These levels will be found very useful, and should be on all cameras.

No.	Description	Price.
No. 1.	In Metal Mounting, round, with flange screw holes	\$0 75
No. 2.	In Metal Mounting, round, large size	1 00
No. 3.	In Metal Mounting, without flange	75
No. 4.	Pocket Level	75

CLIMAX CAMERAS, FITTED WITH THE "BENSTER" PLATE HOLDERS.

These cameras are manufactured in the most substantial manner from the best of mahogany, and handsomely finished with all late improvements.



No. 14 B Climax Camera, with Telescopic Bed and Benster Holder.

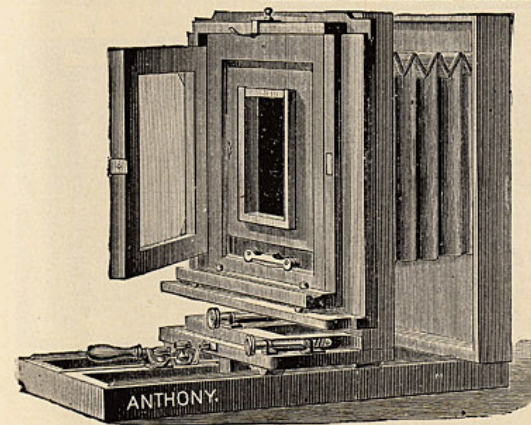
CLIMAX PORTRAIT CAMERAS.

Double Swing Back, Tangent Screw Motion and Telescopic Bed.

No.	Size	Length of bed	Price
No. 13 B.	11 x 14 and under	49 inches	\$59 00
" 14 B.	14 x 17	60 "	70 00
" 15 B.	17 x 20	65 "	83 00
" 16 B.	18 x 22	75 "	90 00
" 17 B.	20 x 24	77 $\frac{1}{2}$ "	97 00
" 18 B.	22 x 27	Cameras made to order only	118 00
" 20 B.	25 x 30	" " "	150 00

All the above are supplied with a lever attachment, by which the most minute adjustment of the focus may be instantly obtained.

CLIMAX IMPERIAL CAMERAS.



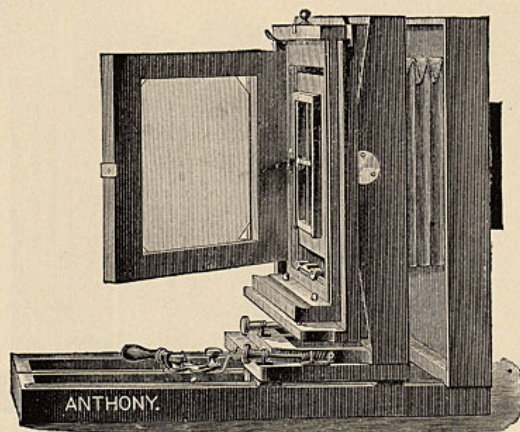
No. 19 B. For 8 x 10 and under and two cabinets on 8 x 10 plate, or two C. de V. on smaller plate; length of bed, 30 $\frac{1}{2}$ inches. Fitted with "Benster" Holder and carriage movement on our Patent Rollers, and lever focusing attachment.

Double swing back... \$39 00
The same for 10 x 12 and under, length of bed, 32 inches, double swing back. 55 00

No. 19 C. Same as above, in 8 x 10 size, length of bed, 28 $\frac{1}{2}$ inches, varnish finish, Dry Plate Benster holder, with curtain slide..... 30 00

CLIMAX CINCINNATI GEM CAMERA.

FITTED WITH THE "BENSTER" PLATE HOLDER.



Length of Bed, 30½ inches.

For negatives or ferrotypes (admitting of picture 8 x 10 and under, two on 8 x 10, 7 x 10 or 5 x 7 with one lens) with carriage movement on our Patent Rollers, lever focusing attachment and fitted with the "Benster" holder with wooden slide.

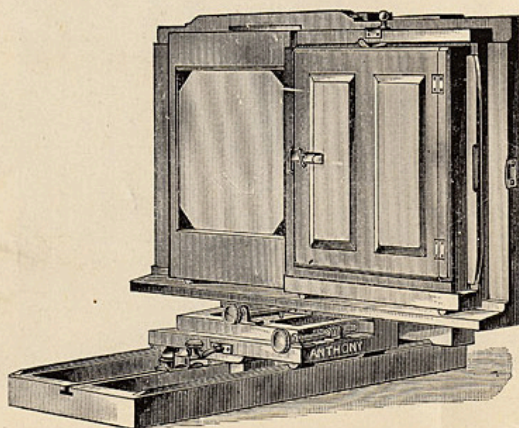
No.	Price.
43 B. Without swing.....	\$27 00
43 B. Single swing.....	30 00
43 B. Double swing.....	34 50

When fitted with four 1-4 Gem Tubes on plate, it will admit of eight on 7 x 10, and four on 5 x 7.

Without swing, fitted with four tubes on plate.....	\$43 00
Single " " " ".....	46 00
Double " " " ".....	50 00

CLIMAX ROYAL CAMERA.

This camera has the sliding back or carriage for plate holder, and has a ground glass attached in place, where it is always at hand. When the operator has the plate holder ready, he places it in the carriage, instead of laying it on the floor or some other inconvenient place, while he gets his focus; this done, he merely slides the holder, ground glass and all, together. It is made in the best manner, of fine mahogany, and is fitted with the celebrated Benster plate holder, working 8 x 10 plates, and smaller; two 5 x 8 negatives on an 8 x 10 plate; two 4½ x 6½ negatives on a 6½ x 8½ plate; two 4 x 5 negatives on a 5 x 8 plate, etc. Prices:

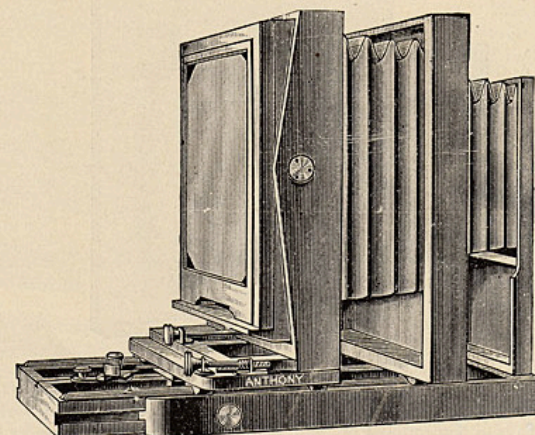


8 x 10 size, complete; length of bed, 30½ inches.....	\$43 75
11 x 14 " " " " 41½ ".....	70 00

NEW YORK IMPERIAL CAMERA,

FITTED WITH THE

"BENSTER" PLATE HOLDER.



A new combination camera, with carriage movement, consisting of an 11 x 14 double swing back camera, with telescopic bed, for portraiture from 11 x 14 to 8 x 10 and reversible.

Also with an 8 x 10 Attachment (as illustrated below) for 8 x 10 to 1-4 reversible, as follows: Making two cabinets on an 8 x 10, using one tube, and two cartes de visite on 4½ x 6½.

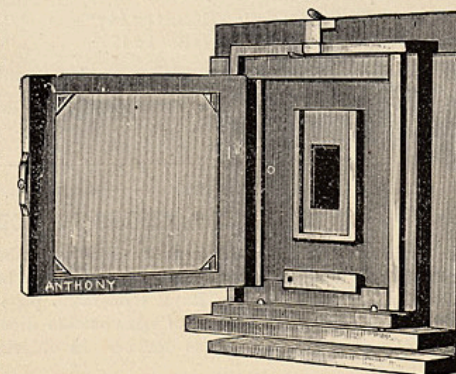
These will fill all the requirements of any studio. Price, complete,	
11 x 14. Length of bed, 49 inches.....	\$80 00
14 x 17. " " 60 ".....	95 00

ATTACHMENTS FOR PORTRAIT CAMERAS,

Consisting of a carriage and plate holder to be attached to larger portrait cameras, by occupying the place of the ground glass or shield of the same for producing smaller pictures, without using the large shield belonging to the camera. Two carte de visite or cabinet portraits can be made with one lens. These attachments can be laid aside when large-sized pictures are to be taken, and replaced when imperial work is to be done, for which they are available, from the largest size specified down to the smallest imperial work.

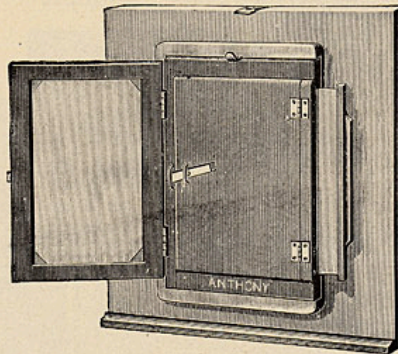
In ordering please state what kind of camera is in use, and give the outside size at the back, to guard against error.

8 x 10 and cabinet and C. de V. attachment for 11 x 14.....	\$22 00
8 x 10 " " " " 14 x 17.....	25 00
8 x 10 " " " " 17 x 20.....	32 50



CLIMAX ATTACHMENT

FOR CABINET SIZE DRY PLATE HOLDERS



Is an attachment for use with either single or double dry plate holders, which will be found especially desirable by those doing a large amount of cabinet work, who, by its use, are enabled to load any number of holders they may wish, and be ready for sittings as fast as they may appear.

Each carrier is fitted with one single dry plate holder, and additional holders will be furnished at prices quoted below.

The carrier is supplied with a swinging ground glass, and for use, is attached to the back of the camera, in same place as the ordinary ground glass and frame.

The dry plate holders which are supplied for this carrier are all of same outside dimensions, but are fitted to receive plates either $4\frac{1}{2} \times 6\frac{1}{2}$, 5×7 or 5×8 , as desired.

In ordering, please specify which size plate is to be used.

SIZE OF CARRIER, OUTSIDE.

12 $\frac{1}{2}$ wide x 12 $\frac{1}{2}$ high, for 8 x 10, No. 19C, 19B and No. 11 and Royal Climax Cameras, fitted as above.....	\$8 00
13 $\frac{1}{2}$ " x 13 $\frac{1}{2}$ " for 43B " "	8 00
17 " x 17 $\frac{1}{2}$ " 13B, 11 x 14 " "	10 00
20 $\frac{1}{2}$ " x 21 " 14B, 14 x 17 " "	11 00

Larger sizes to order.

Cabinet Single Dry Plate Holders, per dozen.....\$14 40

ROYAL ATTACHMENT FOR PORTRAIT CAMERAS.

Similar to Climax Attachment, as illustrated above, except that in place of swinging ground glass, the ground glass and plate holder are both fitted into grooved carriage, in the same way as shown in Climax Royal Camera on page 24. The dry plate holders which are supplied with this carrier are all of same outside dimensions, but are fitted to receive plates either $4\frac{1}{2} \times 6\frac{1}{2}$, 5×7 or 5×8 , as desired. In ordering, please specify which size plate is to be used.

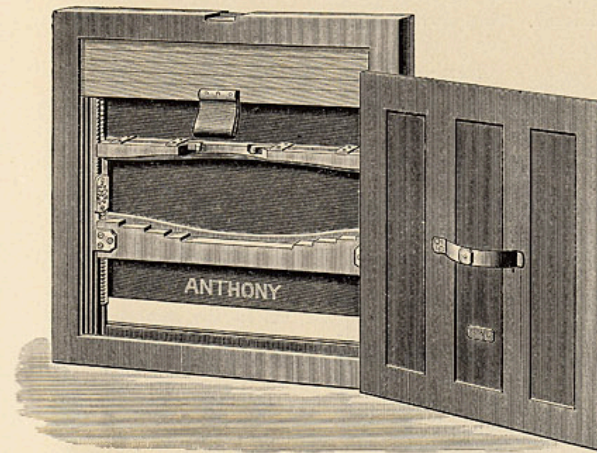
Size of carrier outside: To fit No. 13B, 11 x 14, is 17 inches wide by 17 $\frac{1}{2}$ inches high. Price each, \$12.

To fit No. 14B, 14 x 17, is 20 $\frac{1}{2}$ inches wide by 21 inches high. Price each, \$14.

Cabinet single dry plate holders extra. Per dozen, \$14.40.

THE "BENSTER" PLATE HOLDER.

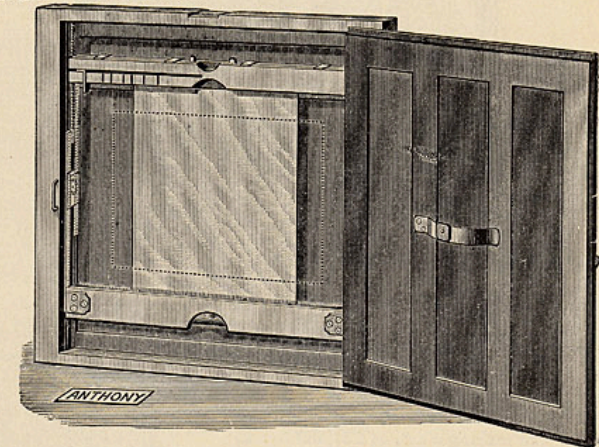
WITH CURTAIN SLIDE.



Showing the Holder with Curtain Slide.

fastened for plates of any size. For dry-plate studio work, it is the holder *par excellence*. It is fitted to all Climax Cameras, with the exception of the 43B, 43C, copying, and enlarging and reducing cameras.

THE BENSTER HOLDER, WITH WOODEN SLIDE, is applied only to boxes for wet-plate work, such as 43B and copying cameras, and in these holders the plate rests on pure silver wire, and there is a trough with large bottle underneath, into which all the silver waste readily finds its way.



Showing the Holder with Wooden Slide.

The glass plate rests on a wooden ledge, notched for different-sized plates. As the lower ledge is raised, the upper ledge descends, so that the center of the plate is at all times in the center of the holder, no matter what size is used. This obviates the use of inside kits, and adapts itself at once to any size of plate, from the largest the holder will admit, to one not under three inches square. This is unquestionably the best gallery plate holder made. The ledges may be instantly

The prices of Benster Holders for Portrait Cameras are as follows:

For 8 x 10 plate and under, 12 $\frac{1}{2}$ inches wide, 13 $\frac{1}{2}$ inches high.....	\$10 00
" 8 x 10 " " 13 $\frac{1}{2}$ " 13 $\frac{1}{2}$ "	10 00
" 10 x 12 " " 15 " 15 $\frac{1}{2}$ "	14 00
" 11 x 14 " " 17 " 17 $\frac{1}{2}$ "	18 00
" 14 x 17 " " 20 $\frac{1}{2}$ " 21 "	22 00
" 17 x 20 " " 23 $\frac{1}{2}$ " 24 "	25 00
" 18 x 22 " " 26 " 26 $\frac{1}{2}$ "	30 00
" 20 x 24 " " 28 " 28 $\frac{1}{2}$ "	35 00
" 22 x 27 " " 31 " 31 $\frac{1}{2}$ "	40 00

Special sizes, to order, will cost 20 per cent. additional.

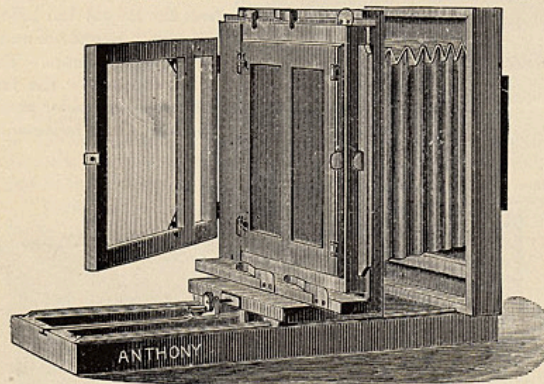
CLIMAX CAMERAS.

WITH SOLID BEDS.

These cameras are manufactured in the most substantial manner from the best of mahogany, and handsomely finished. They are all fitted with the Patent "Benster" Plate Holders.

	For Reversible Plate.	Price.
No. 11	8 x 10	\$36 00
" 12	10 x 12	42 50
" 13	11 x 14	50 00
" 14	14 x 17	62 50
" 15	17 x 20	72 00

CLIMAX PORTRAIT AND GEM CAMERA. (No. 43 C.)



The best every-day camera in the market. With sliding holder and swinging ground glass; improved focus screw; extension bellows. With rabbeted kits for dry plate and ferrotype work. With a single $6\frac{1}{2}$ x $8\frac{3}{4}$ or 8 x 10 lens it will make all regular work, reversible, from $4\frac{1}{4}$ x $6\frac{1}{4}$ size to 8 x 10; also two cabinets on 8 x 10 plate or two 5 x 7 size on two 5 x 7 plates. With a 1-4 or 1-2 size tube, copying and enlarging to 8 x 10; with four 1-4 Gem tubes set in brass

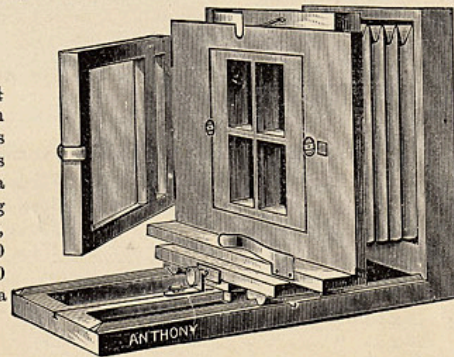
plate, it makes eight large bon-tons or card size on 7 x 10; also four of the same size on 5 x 7, and eight small bon-tons on 5 x 7. Prices:

No. 43 C. All complete except tubes	\$22 50
" 43 C. As above, fitted with four 1-4 Gem tubes	37 50

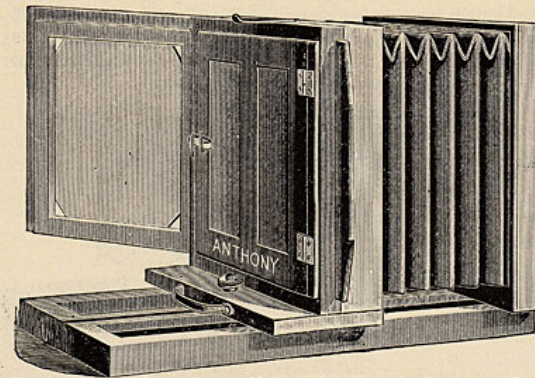
5 x 7 IMPROVED VICTORIA CAMERA.

For making 5 x 7, $4\frac{1}{4}$ x $5\frac{1}{4}$ and $3\frac{1}{4}$ x $4\frac{1}{4}$ pictures, and reversible, and 4 or 8 on 5 x 7 plates with 4 Gem tubes. It is handsomely finished in mahogany, has rabbeted shield and kits. The camera has several improvements over anything heretofore offered to the trade. Price, without lenses \$15 00
With $4\frac{1}{4}$ lenses on plate 31 50
Extra diaphragms for 9 or 18 on a 5 x 7 plate, \$1 50 each.

Extra Holders, \$5 00 each.



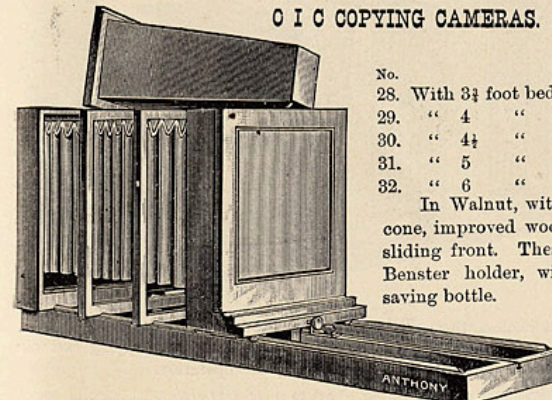
O I C PORTRAIT CAMERAS.



Rubber bellows, improved wooden guide, solid bed, swinging ground glass and reversible holder.

No. 2. 1-2	\$8 50	No. 5. 10 x 12, focus rack	\$21 00
" 3. 4-4	11 50	" 6. 11 x 14, "	30 00
" 4. 8 x 10	17 00	" 7. 14 x 17, "	40 00

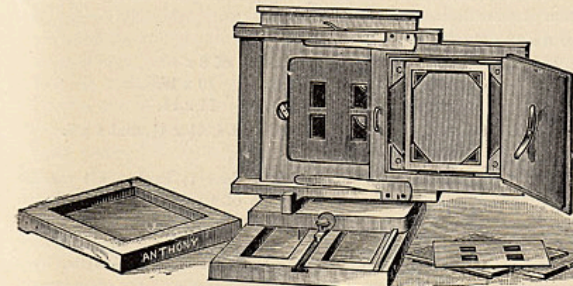
O I C COPYING CAMERAS.



No.	Price.
28. With $3\frac{1}{4}$ foot bed, for 8 x 10 to 1-4	\$23 75
29. " 4 " " 10 x 12 " 1-2	36 50
30. " $4\frac{1}{4}$ " " 11 x 14 " 1-2	43 00
31. " 5 " " 14 x 17 " 4-4	55 50
32. " 6 " " 17 x 20 " 8 x 10	61 50

In Walnut, with extra long rubber bellows, cone, improved wooden guide, focus screw and sliding front. These cameras are all fitted with Benster holder, with wooden slide and silver saving bottle.

CLIMAX OR NEW YORK GEM CAMERA.



This camera has been in great demand for small ferro. work and photographs to half size.

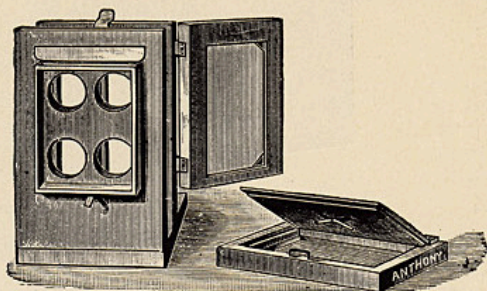
	Without Lenses.	With 4 1-9 Lenses.
No. 42. For 4, 8 and 16 on 1-4 plate with 4 1-9 lenses, 2 on 1-2 plate, and 1-2 to 1-6 reversible with 1 portrait lens.	\$15 00	\$24 00

CLIMAX FERROTYPE CAMERAS.

			Without Lenses.	With Lenses.
No. 37 $\frac{1}{2}$.	Camera and shield for 4 on 1-4 plate with 4 1-9 lenses.....		\$6 75	\$16 00
" 38.	" " " 6 " 1-2 " 6 "		8 50	22 25
" 39.	" " " 9 " 5-7 " 9 "		12 00	32 50

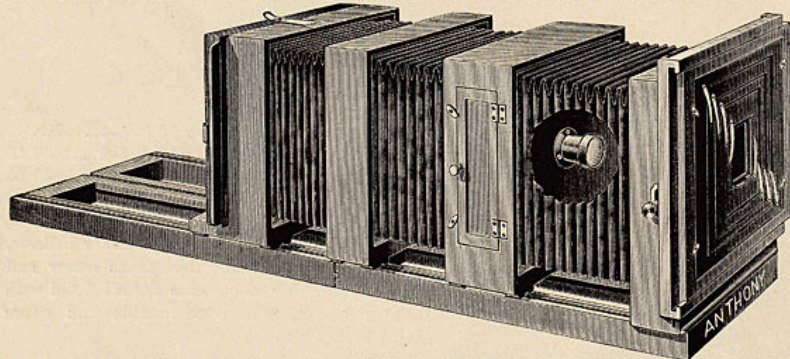
No. 41. This is an excellent and cheap camera for making four bon-tons on a 5 x 7 ferro. plate with four tubes, or one card or cabinet picture on a 5 x 7 plate with one lens.

Without lenses..... \$12 00
Fitted with four 1-4 lenses. 27 50



CLIMAX ENLARGING, REDUCING AND COPYING CAMERAS.

The form of construction of this new camera is made apparent by the illustration here shown. The experienced copyist will not need any such simple directions for use as we append.



An important feature in this camera, that is found in no other, is that the center-board with lens, can be used in the end of the camera, converting it at once into an extra long copying camera. This will be found very advantageous in enlarging small pictures by one operation.

Size, 4 x 5.....	\$12 00	Size, 10 x 12.....	\$48 00	Size, 17 x 20.....	\$90 00
" 6 $\frac{1}{2}$ x 8 $\frac{1}{2}$	30 00	" 11 x 14.....	60 00	" 18 x 22.....	100 00
" 8 x 10.....	35 00	" 14 x 17.....	72 00	" 20 x 24.....	110 00

Both the outside kits and the holder kits are fitted with springs, and are interchangeable, thus making possible any transposition of sizes desired.

Holder Kits for 8 x 10—4 $\frac{1}{2}$ x 5 $\frac{1}{2}$, 5 x 7, 5 x 8, 6 $\frac{1}{2}$ x 8 $\frac{1}{2}$.

" " 10 x 12, same as above, with the addition of 8 x 10.	
" " 11 x 14, " " " 10 x 12.	
" " 14 x 17, " " " 11 x 14.	

Outside kits, the same as above, in all sizes, with the addition of 3 $\frac{1}{2}$ x 4, 3 $\frac{1}{2}$ x 4 $\frac{1}{2}$, and 4 x 5.

DIRECTIONS FOR USE.—To copy a negative in the natural size, place it in the kit on the front of the camera and button it in. Attached to the center frame of the camera is a division upon which, on the side toward the camera front, a lens is mounted. Suppose this to be a quarter-plate portrait lens, the focal length of which we will suppose to be 4 inches: draw back the center frame and the lens twice the focal length of the lens (8 inches); slide the back frame with ground glass the same distance from the center frame. To enlarge with the same lens to

eight times the size of the original, the center of the lens must be 4 $\frac{1}{2}$ inches from the negative, and the ground glass be 36 inches from the center of the lens. To reduce in the same proportion, reverse and have 36 inches from the center of the lens to the negative, and from the center of lens to ground glass 4 $\frac{1}{2}$ inches.

These examples will furnish a key to the following table.

TABLE FOR ENLARGEMENTS.

Copied from the "British Journal Almanac for 1882."

FOCUS OF LENS.	TIMES OF ENLARGEMENT AND REDUCTION.							
	1	2	3	4	5	6	7	8
In.	In.	In.	In.	In.	In.	In.	In.	In.
2	4	6	8	10	12	14	16	18
	4	3	2 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$
2 $\frac{1}{2}$	5	7 $\frac{1}{2}$	10	12 $\frac{1}{2}$	15	17 $\frac{1}{2}$	20	22 $\frac{1}{2}$
	5	3 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$	3	2 $\frac{1}{2}$	2 $\frac{1}{2}$	2 $\frac{1}{2}$
3	6	9	12	15	18	21	24	27
	6	4 $\frac{1}{2}$	4	3 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$
3 $\frac{1}{2}$	7	10 $\frac{1}{2}$	14	17 $\frac{1}{2}$	21	24 $\frac{1}{2}$	28	31 $\frac{1}{2}$
	7	5 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4	3 $\frac{1}{2}$
4	8	12	16	20	24	28	32	36
	8	6	5 $\frac{1}{2}$	5	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$
4 $\frac{1}{2}$	9	13 $\frac{1}{2}$	18	22 $\frac{1}{2}$	27	31 $\frac{1}{2}$	36	40 $\frac{1}{2}$
	9	6 $\frac{1}{2}$	6	5 $\frac{1}{2}$	5 $\frac{1}{2}$	5 $\frac{1}{2}$	5 $\frac{1}{2}$	5 $\frac{1}{2}$
5	10	15	20	25	30	35	40	45
	10	7 $\frac{1}{2}$	6 $\frac{1}{2}$	6 $\frac{1}{2}$	6	5 $\frac{1}{2}$	5 $\frac{1}{2}$	5 $\frac{1}{2}$
5 $\frac{1}{2}$	11	16 $\frac{1}{2}$	22	27 $\frac{1}{2}$	33	38 $\frac{1}{2}$	44	49 $\frac{1}{2}$
	11	8 $\frac{1}{2}$	7 $\frac{1}{2}$	6 $\frac{1}{2}$	6 $\frac{1}{2}$	6 $\frac{1}{2}$	6 $\frac{1}{2}$	6 $\frac{1}{2}$
6	12	18	24	30	36	42	48	54
	12	9	8	7 $\frac{1}{2}$	7 $\frac{1}{2}$	7	6 $\frac{1}{2}$	6 $\frac{1}{2}$
7	14	21	28	35	42	49	56	63
	14	10 $\frac{1}{2}$	9 $\frac{1}{2}$	8 $\frac{1}{2}$	8 $\frac{1}{2}$	8 $\frac{1}{2}$	8	7 $\frac{1}{2}$
8	16	24	32	40	48	56	64	72
	16	12	10 $\frac{1}{2}$	10	9 $\frac{1}{2}$	9 $\frac{1}{2}$	9 $\frac{1}{2}$	9
9	18	27	36	45	54	63	72	81
	18	13 $\frac{1}{2}$	12	11 $\frac{1}{2}$	10 $\frac{1}{2}$	10 $\frac{1}{2}$	10 $\frac{1}{2}$	10 $\frac{1}{2}$

It is assumed that the photographer knows exactly what the focus of his lens is, and that he is able to measure accurately from its optical center. The use of the table will be seen from the following illustration: A photographer has a *carte* to enlarge to four times its size, and the lens he intends employing is one of six inches equivalent focus. He must, therefore, look for 4 on the upper horizontal line, and for 6 in the first vertical column, and carry his eye to where these two join, which will be at 30—7 $\frac{1}{2}$. The greater of these is the distance the sensitive plate must be from the center of the lens, and the lesser, the distance of the picture to be copied. To reduce a picture any given number of times the same method must be followed; but in this case the greater number will represent the distance between the lens and the picture to be copied; the latter, that between the lens and the sensitive plate. This explanation will be sufficient for every case of enlargement or reduction.

If the focus of the lens be 12 inches, as this number is not in the column of focal lengths, look out for 6 in this column and multiply by 2, and so on with any other numbers.

FERROTYPE OUTFIT NO. 1.

For those who wish to start on a small scale, the following outfit will suffice for a beginning:	
1 $\frac{1}{2}$ Gem Camera and Holders, with 4	1 Instruction Book, The Ferrotypes
1-9 Gem Lenses to make 4 1-9	and How to Make It.....
Gems on $\frac{1}{2}$ plate.....	1 Box $\frac{1}{2}$ Ferro. Plates.....
1 Short Head Rest.....	500 No. 4 Ferrotypes Envelopes.....
1 $\frac{1}{2}$ Excel. Camera Stand.....	1 pt. Silver Bath Solution.....
1 $\frac{1}{2}$ Rubber Bath and Dipper.....	$\frac{1}{2}$ lb. Ferrotypes Collodion.....
1 4 x 5 Rubber Dish.....	1 lb. Acetic Acid.....
2 No. 0 Rubber Funnels.....	$\frac{1}{2}$ lb. Cyanide Potassium.....
1 3 oz. Collodion Vial.....	1 lb. Sulph. Iron, in bottle.....
1 3 oz. Graduated Glass.....	1 Bottle Varnish.....
1 Alcohol Lamp.....	1 Pint 95° Alcohol.....
1 Box Ferro. Colors, Brushes, etc....	
1 $\frac{1}{2}$ pt. Jar Daisy Paste and Brush....	
1 Quill Duster.....	
Total..... \$37 95	

Those who wish to make single pictures, 1-9, 1-6 and 1-4 sizes, can do so with this outfit, by adding a $\frac{1}{2}$ E. A. Portrait Lens, with central stops, which will cost, extra, \$8 75.

The same outfit as above, but instead of $\frac{1}{2}$ Camera, Stand, Bath and Dish, we will send $\frac{1}{2}$ sizes, \$38 70.
 With $\frac{1}{2}$ E. A. Lens..... \$46 70 | With $\frac{1}{2}$ E. A. Lens..... \$52 50

FERROTYPE OUTFIT NO. 2.

The following outfit will be found the best for traveling business on a small scale:	
1 1-2 Combination Camera makes 1-9,	$\frac{1}{2}$ lb. Cyanide Potassium.....
1-6, 1-4 and 1-2 single Ferrotypes,	$\frac{1}{2}$ lb. Ferro. Collodion.....
and 2 card size on a $\frac{1}{2}$ plate with 1	1 Bottle Varnish, Crystal.....
$\frac{1}{2}$ size Lens. Price of Camera and	1 Box Colors, Brushes and Gold Sauc-
E. A. Lens.....	cer.....
1 $\frac{1}{2}$ Excel. Camera Stand.....	1 Pint 95° Alcohol, bottle.....
1 Tall Head Rest.....	1 Box each $\frac{1}{2}$ and $\frac{1}{4}$ Ferrotypes Plates.
1 $\frac{1}{2}$ Glass Bath in Box, and Dipper...	100 No. 11 Ferrotypes Envelopes....
1 5 x 7 Rubber Dish.....	50 No. 24 Card Envelopes.....
1 Alcohol Lamp.....	$\frac{1}{2}$ Pint Jar Daisy Paste and Brush...
1 4 oz. Collodion Vial.....	1 1-inch Camel's-hair Duster for
1 4 oz. Graduated Glass.....	Plates.....
2 No. 1 Rubber Funnels.....	1 Copy Ferrotypes and How to Make
1 Pint Silver Solution.....	It.....
1 lb. Sulph. Iron, in bottle.....	
1 lb. Acetic Acid, in bottle.....	
Total..... \$51 93	

FERROTYPE OUTFIT NO. 3.

For those who wish to make larger pictures, the following will be found a good outfit:

1 8 x 10 Cincinnati Gem Camera and	1 lb. Sulph. Iron, in bottle.....
Holder, carriage movement, fitted	1 lb. Cyanide Potassium.....
with 4 $\frac{1}{2}$ E. A. Lenses, plain.....	1 lb. Ferro. Collodion.....
1 4-4 E. A. Portrait Lens, C. S.....	1 Pint Ferro. Varnish.....
1 No. 2 Acme Camera Stand, boxed...	1 Pint 95° Alcohol.....
1 Tall Head Rest.....	1 $\frac{1}{2}$ pt. Jar Daisy Paste and Brush...
1 9 x 12 Glass Bath, in box, and Dip-	1 $\frac{1}{2}$ inch Camel's-hair Duster.....
per.....	50 10 x 14 Ferro. Plates.....
1 8 x 10 Rubber Dish.....	500 No. 11 Ferrotypes Envelopes....
1 Alcohol Lamp.....	100 No. 15 Ferrotypes Envelopes for
1 8 oz. Collodion Vial.....	$\frac{1}{2}$ size.....
1 8 oz. Graduated Glass.....	24 No. 20 Cabinet Envelopes.....
2 No. 3 Rubber Funnels.....	1 Copy Ferrotypes and How to Make
1 Box Ferrotypes Colors, Brushes, etc.	It.....
3 Pints Silver Bath Solution.....	
2 lbs. Acetic Acid.....	
Total..... \$118 00	

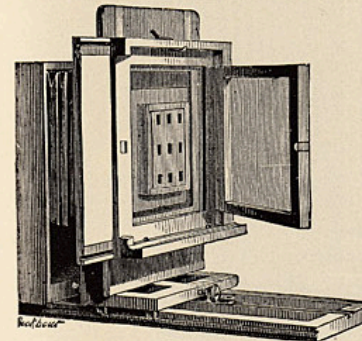
Those who do not care to make large pictures can dispense with the 4-4 Lens.

Or a $\frac{1}{2}$ size E. A. Portrait Lens can be substituted for \$17 50, making this outfit very useful.

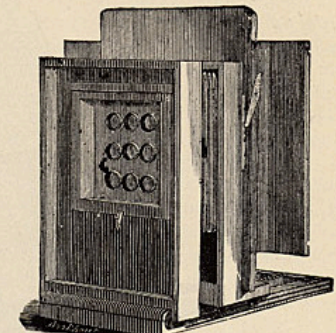
NOTE.—To these outfits may be added other articles to make them more complete (but can be dispensed with, if economy is an object), such as Backgrounds and Accessories, Posing Chair, Tent, etc.

SUCCESS MULTIPLYING CAMERA.

N 8 x 10 Multiplying Gem Camera, making 72, 36 or 8 on 7 x 10 plate, and 36, 18 and 9 on 5 x 7 with 9 1-9 lenses, 8 on 7 x 10 and 4 on 5 x 7 plate with 1, 2 or 4 lenses, 4 on 7 x 10, 2 on 4-4 and 8 x 10 to $\frac{1}{2}$ \$68 00

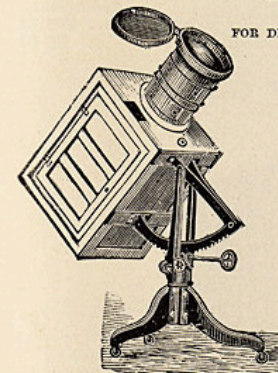


N Camera, Rear View.

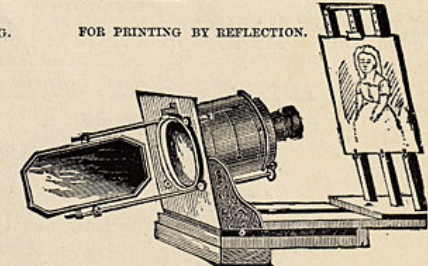


O Camera, Front View.

O Same as N, fitted with nine 1-9 Lenses..... \$90 00
 Fitted with nine 1-9 and four 1-4 Lenses..... 105 00

IMPROVED SOLAR CAMERAS.

FOR DIRECT PRINTING.



FOR PRINTING BY REFLECTION.

Patented Feb. 24, 1857; July 10, 1866;
 Feb. 23, 1871; May 26, 1874; Aug. 4,
 1874; Sept. 18, 1877.

Manufactured under the immediate direction of D. A. Woodward, the original inventor and patentee, combining all the important improvements that have been made. The Condensing Lenses, free from color as can be obtained, and the Objective or Magnifying Lenses (which are triple compound) of short focus, are made in Europe expressly to order.

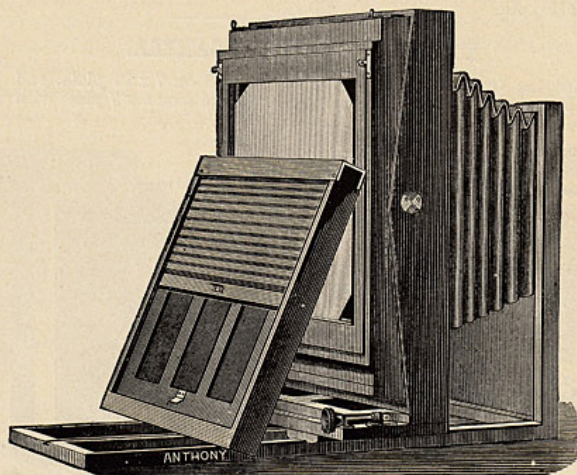
The optical construction of the apparatus is calculated to secure the greatest amount of light to pass through the negative with precision and rapidity of action. By recent improvements the bodies of these Cameras are composed principally of metal, combining lightness with great strength and durability. The Reflecting Camera can be moved to and from the window with ease, and the highest winds cannot disturb it.

	Reflecting.	Direct	Boxing.
10 inch, will print 18 x 23 inches.....	\$155 00	\$170 00	\$2 50
12 " " 25 x 30 ".....	187 00	200 00	4 00
14 " " 27 x 34 ".....	210 00	240 00	5 00
15 " " 29 x 36 ".....	220 00	250 00	5 00
16 " " 30 x 40 ".....	240 00	280 00	6 00
18 " " 40 x 50 ".....	295 00	330 00	7 00
20 " " 44 x 56 ".....	375 00	395 00	8 00

The above prices are net, and are 25 per cent. less than the former prices.

Every Camera will be tested and accompanied by the Patent Stamp, and will be provided with the new Automatic Vignetting Apparatus.

CLIMAX VIEW CAMERA.



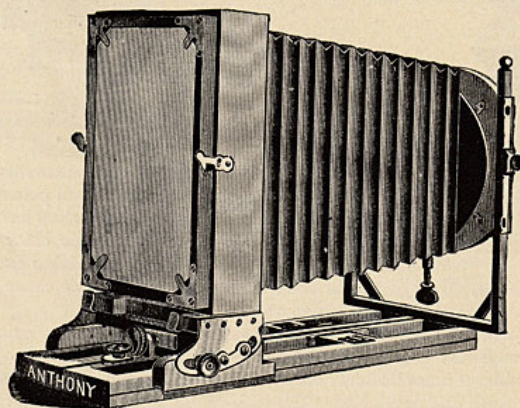
With vertical sliding front and folding bed. Compact, light and strong; fitted with single holder, made with a new curtain slide especially desirable in confined situations.

Only the sizes quoted are manufactured, and all have double swing, the larger sizes being also provided with extra long bed.

For prices of extra holders, see Climax Dry Plate Holders.

Double Swing.		Double Swing.	
No. 24, for view, 11 x 14, reversible..	\$46 00	No. 26, for view, 17 x 20, reversible..	\$62 50
" 25, " 14 x 17, " ..	54 00	" 27, " 18 x 22, " ..	70 00

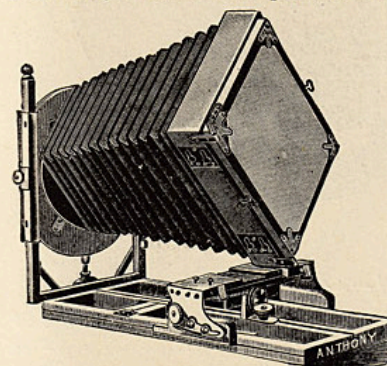
ANTHONY'S PATENT NOVELETTE VIEW CAMERAS.



These cameras are made in the best possible manner, and of first quality mahogany, highly polished; the metal work having the draw-file finish, the same as is used on the finest mathematical instruments. They have single and double swing backs, cone bellows and folding beds; are very light, compact and strong. Their peculiar construction admits of making the pictures either vertically or horizontally with equal ease, the change of position being effected very quickly.

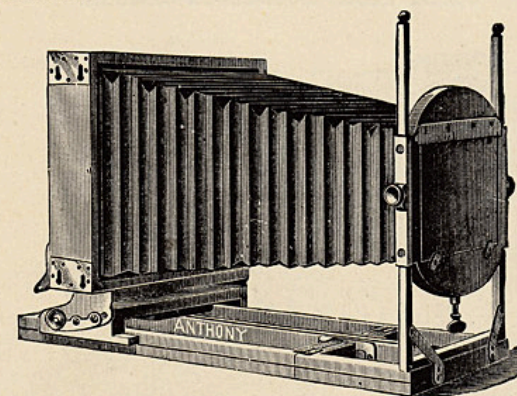
The rear part of the camera is separated from the bed by merely pushing it from left to right, the key-hole slots releasing the heads of the screws.

The front end of the bellows being arranged so as to revolve in a light framework which runs on the two hollow upright brass rods, when the rear of the camera is separated from the bed, the entire bellows revolves at the same time with the rear. When this is turned on its side and replaced on the screws, the camera is reversed. The whole operation of reversing a 5 x 8 camera requires but two seconds by the watch.



Showing Method of Reversing Camera.

holders (two on each of the six usually carried), and the no inconsiderable item of three-fourths of an inch in bulk.



The plate holders are made of hard wood, with metal carriers for the plates, and fitted with all the later improvements. This camera occupies less space than any other view camera of the same capacity, except our Fairy, and is packed in our Telescopic Brass Bound Carrying Case. When packed, the camera should always be put in a vertical position.

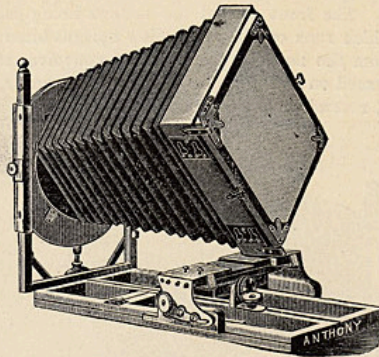
PRICES.

	Single Swing.	Double Swing.
4½ x 6½, including one Novelette double dry plate holder	\$18 00	.....
5 x 7, or 5 x 8, as above	20 00	\$23 00
6½ x 8½, as above	25 00	28 00
8 x 10, "	30 00	33 00
10 x 12, "	42 00	45 00
11 x 14, "	48 00	54 00

With the 4 x 5 size the "Zephyr" plate holders are used.

ANTHONY'S PATENT NOVEL VIEW CAMERAS.

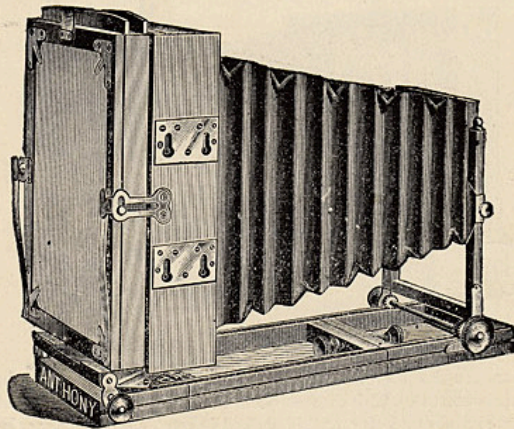
The Novel View Cameras are fitted with one of our Novel Holders, each one of which has two slides, working in the end and in the side of shield; therefore the slide can be withdrawn from the side of the shield, no matter in what position the camera is placed. These shields are made single, and for dry plates only. Prices include the carrying case. All sizes of Novel Cameras are made with the ground glass of the same focus as wet plate holders; if desired, wet plate holders can be furnished to order.



Price, with one single Novel Dry Plate Holder.

14 x 17, Single swing.....	\$55 00	Double swing.....	\$60 00
17 x 20, "	64 50	"	72 00
18 x 22, "	71 50	"	79 00

FRONT FOCUS NOVELETTE CAMERA.

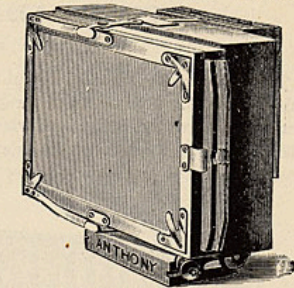
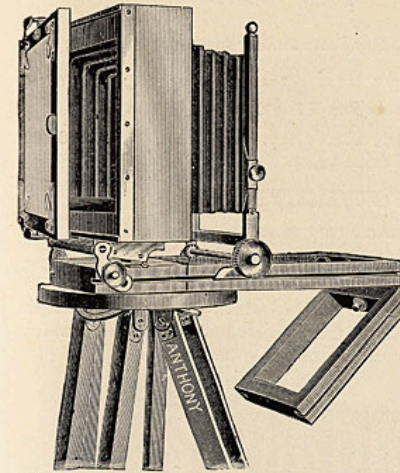


With the exception of the regular Novelette, Fairy and Phantom Cameras, this is the lightest and most compact reversible camera extant. The body of the camera is made of same shape as the holder, and is reversed more easily and quickly than any other in the market. It occupies only one-half the space necessary for other reversible cameras for the same size plate, and is only two-thirds the weight.

It is made with the back rigid and the front moving forward or back by rack and pinion movement for focusing, thus giving the operator access to the ground glass without interference from the bed of the camera.

It is of best quality mahogany, highly polished, has double rack and pinion the entire

length of the bed, and when a lens of short focus is used the front section of the bed folds underneath, hooking to center section. It has rising front, single or double swing back, and our patent adjustable ground glass, which is always just where it is wanted. The metal work has the straight line or draw-file finish, same as used in the finest mathematical instruments. Each size admits the use of lenses of longest

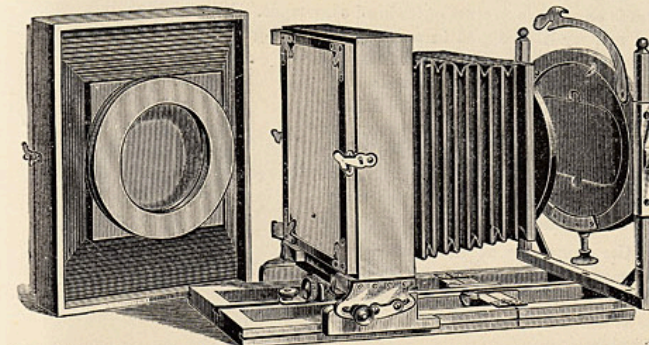


and shortest focus for the size plate to which the camera is adapted. There are no loose pieces or sections, and in this respect also it differs from all other reversible cameras of other makes, being complete in itself.

It is fitted with the Eclipse double dry plate holder, which is included in price of camera quoted below. Also one of our Telescopic Brass Bound Canvas Carrying Cases.

Size.	Plain.	Single Swing.	Double Swing.	Extra Double Zephyr Holders, Each.	Extra Double Eclipse Holders, Each.
4 x 5	\$19 00	\$21 00	\$23 50	\$1 20	
4½ x 6½		22 50	25 00	1 25	\$1 25
5 x 7		23 00	25 50	1 25	1 25
5 x 8		24 00	27 00	1 35	1 35
6½ x 8½		29 00	32 00	1 60	1 60
8 x 10		34 50	37 50	1 85	1 85
10 x 12		45 00	50 00		6 00
11 x 14		55 00	60 00		7 00
14 x 17		70 00	75 00		10 00

ANTHONY'S PATENT DUPLEX NOVELETTE CAMERA.



8 x 10
5 x 8

11 x 14
8 x 10

Consisting of an 8 x 10 bellows and ground glass, with a 5 x 8 camera, and an 11 x 14 bellows and ground glass, with an 8 x 10 camera, making two cameras in one.

This most ingenious method converts a camera of smaller size into a larger one by the simple adjustment of the back and bellows, which are made to fit the same bed and front board; each part is provided with separate carrying case and

double holder, and makes, when attached to the bed, a perfect camera of either size, as desired.

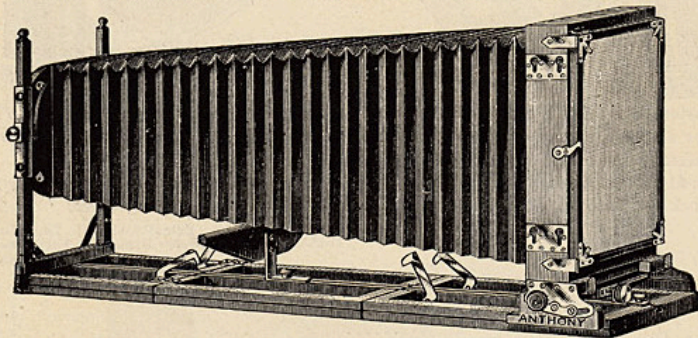
Price complete for $\frac{8 \times 10}{5 \times 8}$, with one Patent Double Dry Plate Holder for each size, and carrying case for each..... \$36 00

Price complete for $\frac{11 \times 14}{8 \times 10}$, with one Patent Double Dry Plate Holder for each size, and carrying case for each..... 65 00

ANTHONY'S LONG BELLOWS NOVELETTE CAMERA.

FOR VIEW, PORTRAIT AND COPYING WORK.

This instrument is a most useful camera for view and portrait photography and enlargements combined. It consists of a regular 8 x 10 Novelette Camera, made, however, with an extra long bellows, and arranged with an extension to the bed which gives it a focal length of 32 inches. As shown in the cut, the bellows is fitted with a movable support, which serves to hold it in position and prevent sagging when in use for enlargements.



The extra bed is held firmly in position, by means of dowels, and our patent clamp hooks, and may be attached or detached almost instantly. This camera is furnished with carrying case, and its entire weight is only seven pounds. Price, including one of our new style double Novelette holders and carrying case, \$40.00.

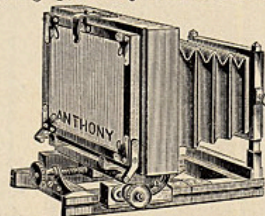
THE PATENT BIJOU CAMERA.

This little camera is one of the neatest of its kind ever made. When folded, it measures 5 x 5 x 3½ inches, and can readily be put in an ordinary hand-grip, or may even be carried in the overcoat pocket. It weighs only 14½ ounces, and the holders are correspondingly light and compact.

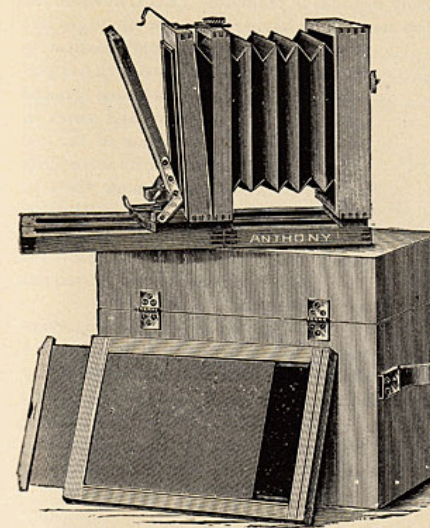
It has a sliding front, hinged ground glass and folding bed, which is provided with a novel arrangement for fixing it in position, enabling the operator to adjust it in a few seconds. It is made of highly polished mahogany, with flexible bellows and brass mountings, making a remarkably elegant little instrument.

As the plate is the same size as those used with magic lanterns, slides may be made from them by contact printing in an ordinary printing frame. By using bromide paper in connection with a Cooper Enlarging Lantern, the pictures may be made as large as desired. For tourists, to whom weight and bulk are objections, this camera is of especial value.

Price of camera, with one double holder \$6 75
With swing back 9 00
Price of patent improved double dry plate holders, 3½ x 4½ each 1 40



THE N. P. A. CAMERA.



This is a highly polished mahogany camera with patent swing-back, rising front, folding bed, patent clamp hooks (to make the bed rigid), extra front and stereoscopic partition. The metal work has the draw-file finish, similar to that on the finest mathematical instruments. By means of a plate on the side, this camera can be reversed on the tripod and used to make a vertical picture. This is the same camera as used in our O. N. A. Equipment. Prices, including camera as above, one patent double Zephyr dry plate holder and carrying case:

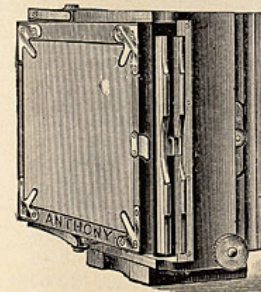
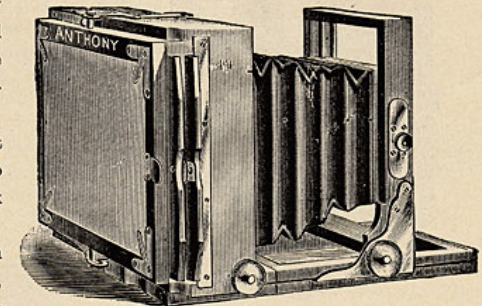
4 x 5	\$6 00
4½ x 6½	7 00
5 x 7	8 00
5 x 8	9 00
6½ x 8½	12 50
8 x 10	16 00

THE VICTOR CAMERA.

This camera is made of highly polished mahogany, and the metal work has the draw-file finish, the same as that used on the finest mathematical instruments.

It is provided with rising front and single swing, and is adapted to front focus, having the double rack and pinion movement.

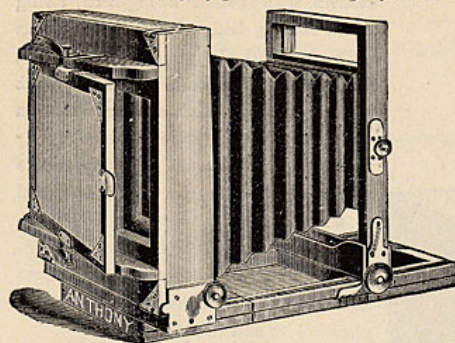
The ground glass is fitted with the patent spring-actuated movement, which keeps it always attached to the camera without being in the way of the operator. The camera may be used for making pictures, either vertically or horizontally, by means of a plate on the side. The price includes camera, one Eclipse double dry plate holder and canvas carrying case.



Size of View.	Price.	Extra Double Zephyr Holders, Each.		Extra Double Eclipse Holders, Each.	
		Each.	Each.	Each.	Each.
4 x 5	\$10 50	\$1 20	.....	
4½ x 6½	11 00	1 25	.....	\$1 25	
5 x 7	12 00	1 25	.....	1 25	
5 x 8	13 50	1 35	.....	1 35	
6½ x 8½	16 00	1 60	.....	1 60	
8 x 10	22 50	1 85	.....	1 85	

ANTHONY'S "NORMANDIE" REVERSIBLE BACK CAMERA.

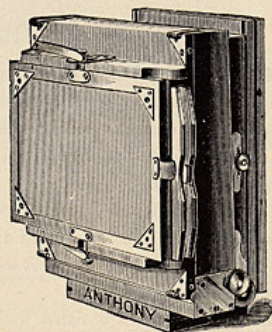
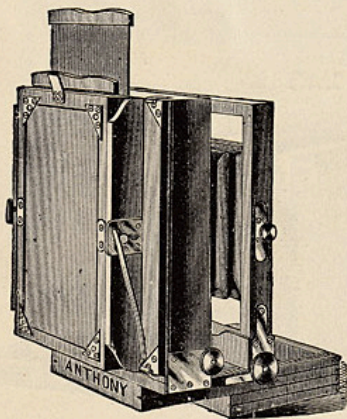
This is the lightest, most compact and easily adjustable reversible back Camera in the market. It is of highly polished mahogany, the metal work having the draw-file finish like



that used on the finest mathematical instruments. It is provided with our patent adjustable spring-actuated ground glass, always in position and never in the way. The front portion of the bed is provided with hinges, so as to drop or to fold under the Camera when in use with wide angle Lenses of short focus. It is made rigid by use of our patent clamp hooks, and is provided with double rack and pinion movement and front focus.

The back of this Camera is completely reversible, and the slides can be drawn from bottom as well as from top or either side. This is an additional safeguard against the admission of light into the holder.

The Normandie is fitted with the Zephyr double dry plate holder up to 8 x 10 inclusive; above that size, with the Eclipse holder. Where extra holders are required, either the Eclipse or Zephyr may be ordered. This camera can be had with either the single or double swing.



The price below quoted includes one double holder, and our Telescopic Brass Bound Canvas Carrying Case.

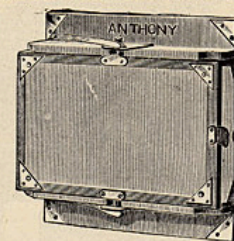
Size.	Single Swing.	Double Swing.	Extra Double Zephyr Holders, Each, to 8-10.	Extra Double Eclipse Holders, Each.
4 x 5	\$15 00	\$17 00	\$1 20	
4½ x 6½	18 00	20 00	1 25	\$1 25
5 x 7	18 00	20 00	1 25	1 25
5 x 8	20 00	22 00	1 35	1 35
6½ x 8½	22 00	25 00	1 60	1 60
8 x 10	25 00	28 00	1 85	1 85
10 x 12	35 00	39 00		6 00
11 x 14	45 00	49 00		7 00
14 x 17	65 00	69 00		10 00

REVERSIBLE BACK ADJUSTERS.

The reversible back adjuster applied to Compact, Normandie and Knickerbocker Cameras will be supplied to take Blair's Feather-Weight or Zephyr holders instead of the Victor, when preferred.

Unless otherwise ordered, adjusters for the above-named cameras will be fitted for Victor holders in sizes up to 11 x 14 inclusive, above which, Zephyr holders.

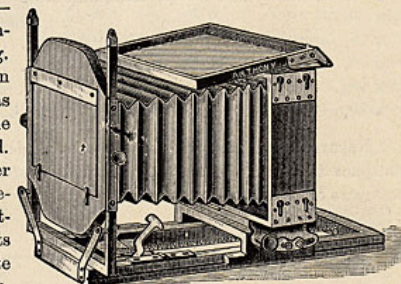
For 4 x 5 Cameras....	\$4 00	For 6½ x 8½ Cameras..	\$5 00
" 4½ x 6½ "	4 50	" 8 x 10 " ..	6 00
" 5 x 7 "	4 50	" 10 x 12 " ..	8 00
" 5 x 8 "	5 00	" 11 x 14 " ..	9 00



THE FAIRY CAMERAS.

It has long been our desire to place before the public a camera that would at once embrace these most necessary requirements—portability, compactness, and strength, combined with beauty and accuracy of working.

Until the introduction of the camera herein described, the nearest approach to this has been the Novelette Camera, which for a time seemed to be everything that could be desired. But urgent calls for something still better were frequently made, and we therefore devised the Fairy Camera, one of the most attractive and elegant pieces of apparatus of its kind ever offered. In presenting it we invite attention to the following advantages it possesses over all others:



With Stereo. Attachments, used Horizontally.

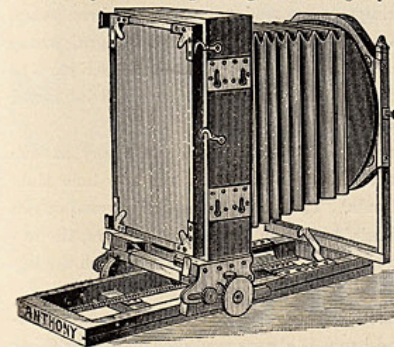
Strength.—It is put together as rigidly as wood and metal will admit of, and the result is a camera of great strength.

Compactness.—It occupies less space than any other view camera of the same capacity, except the Phantom and Novelette, and the plate holders are made of hard wood, with metal carriers for the plates, and fitted with all the later improvements.

Portability.—When closed for carrying, it occupies very little space, and is packed in a neat sole leather carrying case, which is provided with a shoulder strap.

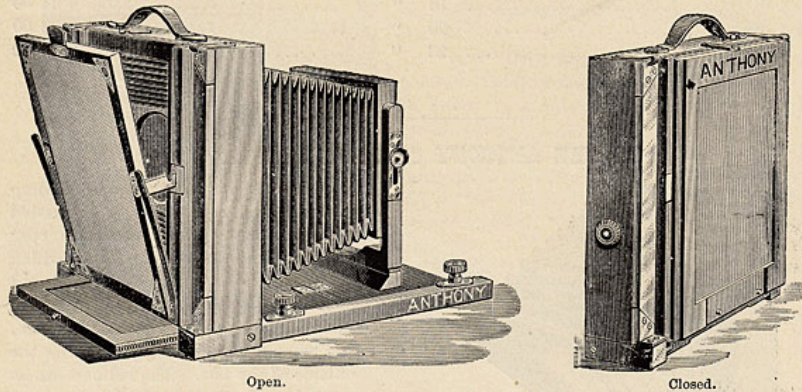
Several new features have been availed of in the construction of this camera.

First.—The bed may be instantly rendered rigid, without the use of screws, by means of a brace of hooks that hold the two sections of the bed with great firmness.



5 x 8, with Stereo. Attachments, used Vertically.

of the closed Camera. The bed being telescopic renders it suitable for work with Lenses of either the longest or shortest focus. When folded it is, as shown in cut, provided with a carrying strap, and measures, complete (for 5 x 8 negative), only 9 x 10 x 3½; other sizes in proportion. These Cameras are all made with reversible backs, which render them nearly



square in shape and very convenient for carrying. The ground glass is attached to Camera by means of our patent springs, and is therefore not liable to get in the way or become detached; the bellows has a capacity in the 5 x 8 size, of extension to the length of 17 inches, and the whole Camera, with ground glass and double holder, weighs only 4 pounds.

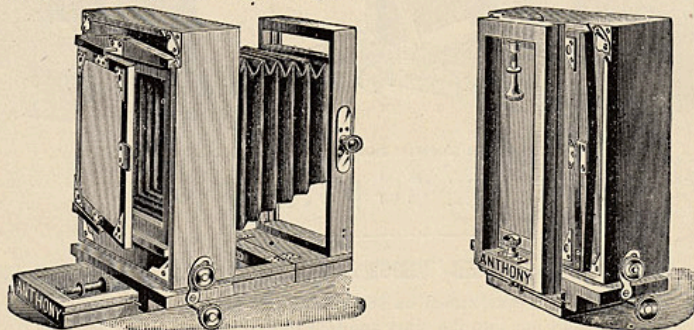
PRICES, INCLUDING ZEPHYR HOLDER AND CARRYING CASE.

5 x 7, single swing.....	\$25 00	6½ x 8½, single swing.....	\$30 00
5 x 8, " "	27 50	8 x 10, " "	35 00

If a Triplex Tripod and five extra double holders are ordered with this Camera, we supply a carrying case fitted to contain them all, with compartments for Lenses, etc., without charge for case.

THE KNICKERBOCKER CAMERA

Is a New Reversible Back Camera of an inexpensive kind, but thoroughly practical and efficient. It is made of mahogany with fine polish finish and brass mountings, on a very similar pattern to our well-known and justly popular N. P. A. Camera, only that it is provided with a Reversible Back, which makes it possible to obtain negatives either upright or horizontal without changing position of the box. It is fitted with the Victor Holder, which is one of the simplest and best plate holders in use to-day, the plates being removed from the front of the holder instead of the end. It has single swing, folding bed, rising front and patent spring actuated ground glass.



PRICES.

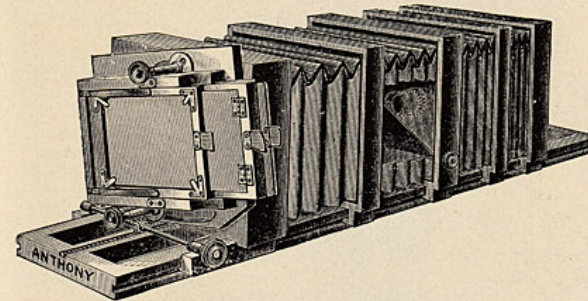
5 x 7.....	\$12 00	6½ x 8½.....	\$16 00
5 x 8.....	13 50	8 x 10.....	22 50

No other sizes made.

ANTHONY'S LANTERN SLIDE CAMERA,

For Copying 4 x 5 Negatives for use in the Lantern,

Is made with special reference to Transparency Work, and has an oscillating frame carriage for ground glass and plate holder, to facilitate the adjustment of picture on plate.



It is well made, light and simple of construction and unsurpassed for excellence and convenience.

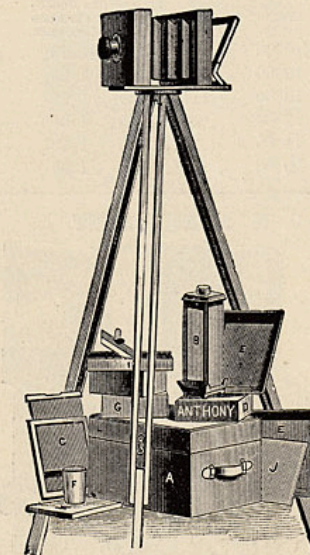
An important feature in this camera, that is found in no other, is, that the center-board with lens can be used in the end of the camera, converting it at once into an extra long copy-

ing camera. This will be found very advantageous in enlarging small pictures by one operation.

For table of enlargements and general instructions, see Catalogue, page 27.

Price.....	\$12 00
Special Holders, extra, 3½ x 4, or 3½ x 4½.....	1 50

EUREKA SCHOOL OUTFIT.



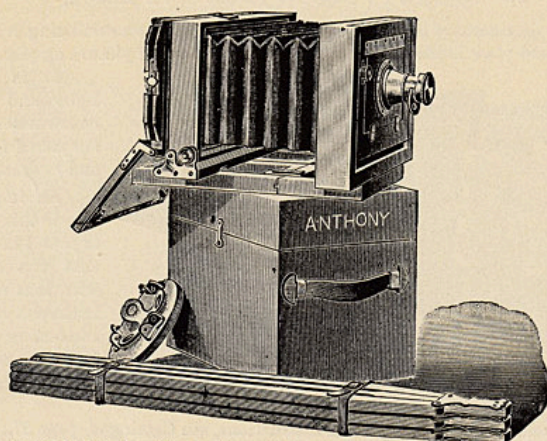
- A. Carrying Case.
- B. Ruby Lamp.
- C. Double Plate Holder.
- D. Dry Plates.
- EE. Developing Trays.
- F. Glass Graduate.

- G. Developing and Toning Solution.
- H. Hyposulphite Soda.
- I. Printing Frame.
- J. Sensitized Paper.
- K. Card Mounts.
- Focusing Cloth.

This equipment is intended as a means of learning the elementary steps of photography by practical working, at an extremely low price, and, while none of the several parts of the equipment are made with elaborate finish or ornamentation, they are all practicable and good results can be obtained with them, as the pictures produced by the equipment demonstrate. The equipment comprises a 4 x 5 camera, with lens, folding tripod, and complete developing and printing outfit, as indicated in above cut.

Price complete..... \$7 50

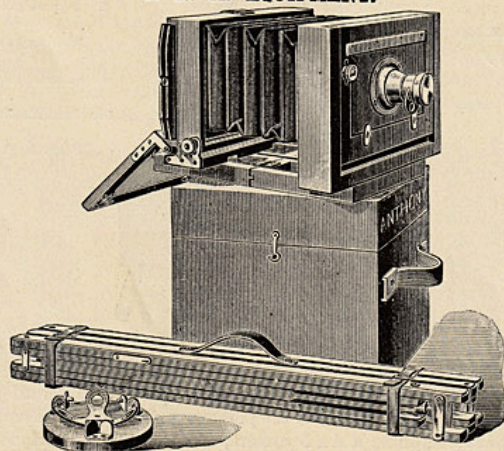
CHAMPION EQUIPMENT.



The camera included in this equipment is of mahogany, with fine varnish finish, and is provided with folding bed (made rigid by the use of our patent clamps), rising front and swing-back, and is adapted to either vertical or horizontal pictures. In addition to the above camera, the equipment includes one patent Zephyr double dry plate holder, carrying case, fine single achromatic lens, and improved folding tripod.

Size of View.	Price.	Extra Double Zephyr Plate Holders, each.	Extra Double Eclipse Plate Holders, each.
4 x 5	\$10 00	\$1 20	\$1 25
4½ x 6½	12 00	1 25	1 25
5 x 7	12 00	1 25	1 25
5 x 8	12 00	1 35	1 35
6½ x 8½	14 00	1 60	1 60
8 x 10	20 00	1 85	1 85

O. N. A. EQUIPMENT.



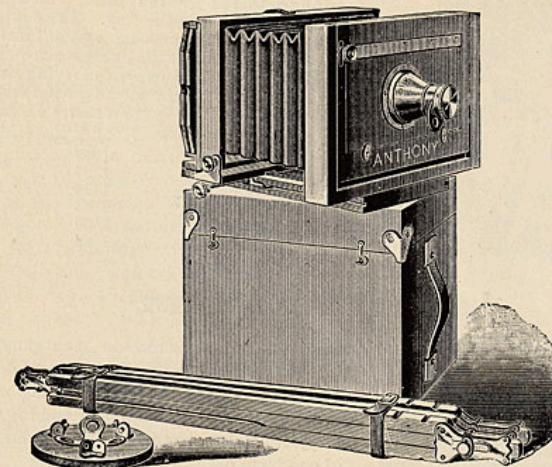
The Camera which forms a part of this Equipment is of highly polished mahogany, the metal-work having the draw-file finish like that on the finest mathematical instruments, and

being lacquered to prevent tarnishing. It is provided with a bed which folds for convenience in packing, and has single swing and rising front.

This Camera can be used either vertically or horizontally. The outfit includes, besides the Camera, a fine single achromatic Lens, a patent zephyr double dry plate holder, an improved triple-jointed climax tripod and carrying case, except in the case of the two sizes 6½ x 8½ and 8 x 10, which have our patent telescopic folding tripod, as stated below.

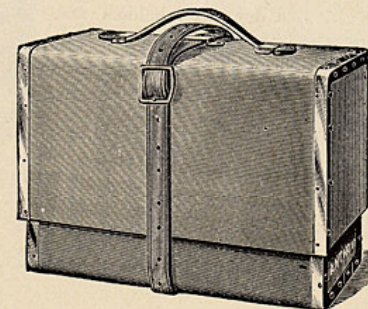
Equipment Number.	Size of View.	Price.	Extra Double Zephyr Plate Holders, each.	Extra Double Eclipse Plate Holders, each.
1 B	4 x 5	\$12 00	\$1 20	\$1 25
1½ B	4½ x 6½	13 00	1 25	1 25
1¾ B	5 x 7	14 00	1 25	1 25
*2 B	5 x 8	15 00	1 35	1 35

O. N. A. equipments numbers 7 B and 8 B are similar to those previously described, except that they are fitted with a patent telescopic folding tripod, as shown in the cut.



Equipment Number.	Size of View.	Price.	Extra Double Zephyr Plate Holders, each.	Extra Double Eclipse Plate Holders, each.
7 B	6½ x 8½	\$20 00	\$1 60	\$1 60
8 B	8 x 10	26 00	1 85	1 85

ANTHONY'S TELESCOPIC BRASS BOUND CARRYING CASES.



These carrying cases are, as indicated by the cut, extremely neat and tasteful in appearance, and are made of the best material and in the most thorough manner. We now supply

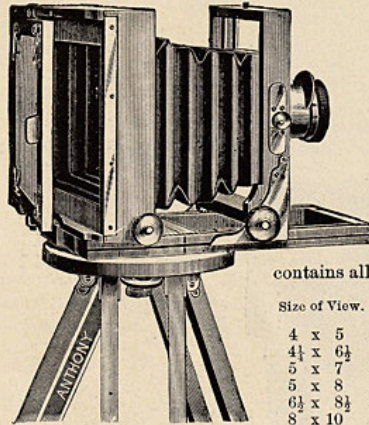
* This Equipment is also fitted with a shutter for instantaneous work, which is included in the price named.

these cases with all our Novelette and Phantom Cameras, without extra charge.

Size.	Price.	Size.	Price.
4 x 5	\$1 60	6½ x 8½	\$2 00
4½ x 6½	1 75	8 x 10	3 00
5 x 7	1 75	10 x 12	3 50
5 x 8	1 75	11 x 14	4 00

Odd sizes made to order at an advance of 50 per cent. on above prices.

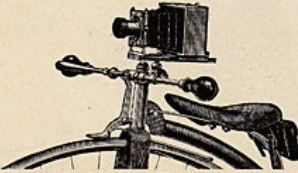
VICTOR EQUIPMENT.



The Camera forming a part of this equipment is of highly polished mahogany, and the metal-work has the draw-file finish, similar to that used on the best mathematical instruments. The Camera has rising front, single swing and front focus; is fitted with the double rack and pinion movement and folding bed. It can be used either vertically or horizontally by means of a plate on the side and has also the patent spring-actuated ground glass, which is always ready, but never in the way. The equipment includes, besides the camera, a patent Eclipse double dry plate holder, fine single achromatic lens, Triplex tripod, and canvas carrying case, which contains all the above named articles, except the tripod legs.

Size of View.	Price.	Extra Zephyr Double Plate Holders, each.	Extra Eclipse Double Plate Holders, each.
4 x 5	\$16 00	\$1 20	\$
4½ x 6½	17 00	1 25	1 25
5 x 7	18 00	1 25	1 25
5 x 8	20 00	1 35	1 35
6½ x 8½	24 00	1 60	1 60
8 x 10	31 50	1 85	1 85

ANTHONY'S BICYCLE EQUIPMENT,



holders, each, \$1 40. Telescopic "Y" shaped bicycle support, \$1 50.

consisting of a handsome mahogany Camera, fine single achromatic Lens, patent double dry plate holder, sole leather carrying case, with shoulder strap and clamp for attaching Camera to bicycle. Makes pictures 3½ x 4½ inches. Weight of complete outfit, exactly 2 pounds.

Price, complete, \$7 50. Extra double dry plate

THE SIMPLEX CAMERA

is a neat and handsome detective camera for pictures 2½ x 2½ inches. It is fitted with six double dry plate holders and twelve kits for films. It is provided with finder, and is covered in black grained leather. It may be used for time exposure as well as instantaneous, and occupies only a space of 4 x 5½ x 6½ inches.



PRICE.

With six Double Holders, either for Films or for Plates, with Kits..... \$6 00
Dry Plates for this camera.....per dozen 25

THE CENTURY HAWK-EYE.

A 6½ x 8½ Folding Hand Camera, fitted with double swing, rising and falling front, Bausch & Lomb automatic diaphragm shutter, rapid universal or Alvan G. Clark lens, aluminium shutter and lens mountings.

Improved roll-holder and three plate or cut film holders. Best morocco leather covering.

Price, complete as above.....	\$100 00
" without roll-holder.....	90 00
" " lens and shutter.....	45 00

THE COLUMBUS CAMERA.

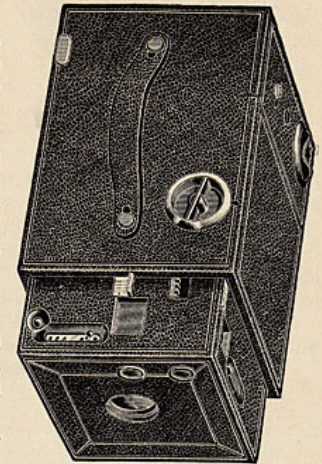
The "Columbus" is a camera of the most simple and reliable construction, arranged to make the largest number of continuous exposures, with the least bulk, least weight, and least trouble to the user, at a very moderate price.

A reference to the illustration will show its advantages. Size, 8 x 6½ x 5½ inches. Weight, 3½ pounds. Capacity, one hundred 4 x 5 pictures without reloading. To focus, the inside box is quickly projected by turning the knob, the scales for distances being located close to the finders on side and top.

It is fitted with Blair Rapid Rectilinear lens, revolving diaphragm and adjustable speed safety shutter with time-exposure stop, of the same general style as in the '91 model Hawk-Eye. The workmanship and finish are first-class, and it is leather-covered with oxidized trimmings.

The Columbus is provided with a Hawk-Eye roll-holder, and is constructed to use roll film only.

Price, complete, loaded for 50 exposures.. \$25 00



Top view, opened for use.

"THE 400" CAMERA.

Fitted with Bausch & Lomb Shutter, and 8-In. R. R. Lens.

The "400" is positively the most compact 4 x 5 camera for roll film in existence and the highest grade folding hand camera in the world.

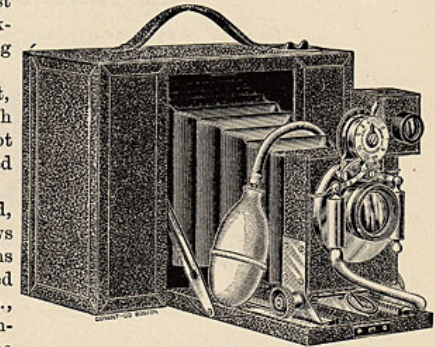
Every exposed part inside and out, when folded or unfolded, is covered with the finest selected morocco leather, except the brass work, which is hand-finished and lacquered.

It is quite like a book when folded, and only 3½ ins. thick; but the bellows capacity is nevertheless such that a lens of longer focus than usually employed with 4 x 5 cameras is fitted. It is 8-in., Rapid Rectilinear, and, with large opening, gives beautiful definition to the extreme edges of the field.

The shutter may be set for automatically timed exposures of from 1/100 of a second to three seconds with great accuracy, as well as for longer exposures in the usual manner.

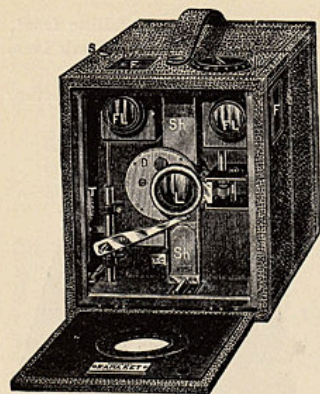
Size, folded, 6½ x 3½ x 8½ inches. Weight, 4 pounds. Capacity, fifty 4 x 5 pictures, without reloading.

Price, with roll of film for 50 exposures.....	\$60 00
Attachment for plates, with one F. W. Holder.....	10 00



Unfolded for use.

THE KAMARET.



The Kamaret is the latest photographic wonder, being nearly one-third smaller than any other camera of equal capacity, viz.—100 4x5 pictures without reloading. Size complete 5½ x 6½ x 8½ inches.

To make exposures with the Kamaret it is only necessary to push a spring when a picture is to be taken.

The same spring when pulled out again after winding up the used film, prepares the camera for the next picture. All other cameras have an additional attachment for setting the shutter—one more thing to be looked after.

The Kamaret has a positive safeguard against double exposures and is provided with an Automatic Tally showing just how many pictures have been taken and how much film there is left. A double swing back attachment for using glass plates or

cut films in the regular double holder, may be obtained and applied to the Kamaret without fitting.

Other points of superiority are the easy manner of removing the film roll and reloading the Kamaret, the beautiful finish and thorough mechanism of the working parts, the clean, clear-cut work of the lens, the liberal size and brilliant illumination of the two finders, and fine quality of the leather covering.

The film rolls may be returned to us to have the pictures developed and printed, or we will supply an outfit for such purpose, as preferred.

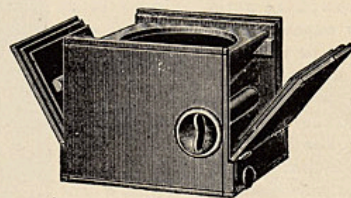
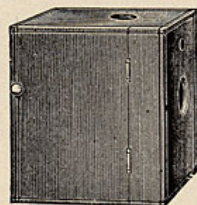
The Kamaret Booklet, with complete description, will be sent on application.

PRICE LIST.

Kamaret, fitted with double combination Rapid Rectilinear Lens and loaded with transparent film for 50 exposures, with leather carrying case.....	\$40 00
Extra rolls of Transparent Film for 50 exposures.....	3 30
“ “ “ 100 “	6 60
Attachment for plates, with one Feather Weight Holder	5 00

THE PETITE KAMARETTE.

One half as large as any other Camera of Equal Capacity.



Size 4½ x 4½ x 5 inches. Weight, 25 ounces.
Loaded with Blair's Film for fifty 3½-inch round pictures.

The Petite is constructed on the same plan as the 4x5 Kamaret, the Blair Camera Co. controlling the patents on a camera carrying film rolls in front of the plane of focus. Herein lies the great advantage of the Kamaret system, which makes possible the extreme compactness of these instruments, without folding.

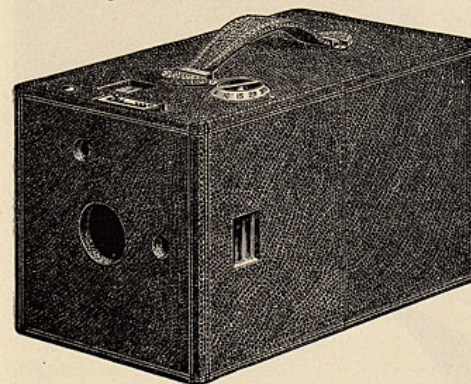
The Petite Kamarette is provided with a double Rapid Rectilinear lens, Automatic Punch preventing “double exposures” and “blanks,” and the safety shutter is set and released by the same spring.

It is operated in the same manner as the larger sizes, excepting that the method of taking apart for loading is somewhat different, as shown by the illustration above. The back is detached by pressing two springs, there being no other separable part.

Price complete with carrying case and loaded for 50 exposures.....	\$25 00
Extra rolls Blair's Film, 25 exposures	1 10
Extra rolls Blair's Film, 50 exposures.....	2 20

THE HAWK-EYE.

The Hawk-Eye maintains its position as the leading camera for all-around use, having had the largest sale of any combined plate and film camera ever placed on the market.



Several new improvements have been made in the 1891 model, which will still further increase the popularity of the Hawk-Eye.

The method of setting the shutter (which is of the adjustable speed, safety type, as before) has been simplified, and a new time-exposure stop, which is in quickness and convenience fully equal to a pneumatic release, has been provided.

The focusing index and screw have been combined in one part and located close by the push-button; the rigidity of the inside bellows frame has been greatly increased; and, last but not least, the width of the Hawk-

Eye has been decreased nearly an inch, thus improving the appearance of the camera and making it a better shape to carry.

Feather-Weight Holders for glass plates or cut films, or an improved roll holder with automatic tally, containing transparent film for 25 to 100 exposures without reloading, may be used in the same camera.

Both vertical and horizontal finders, interior ground-glass screen, and two tripod plates for time work are provided.

Lenses of other make, provided they are of suitable size and focal length, may be fitted to the Hawk-Eye if preferred.

The Hawk-Eye booklet, with complete description, will be sent on application.

PRICE LIST.

The Hawk-Eye Camera, 4x5, hand finished, wood case.....	\$15 00
Covered with black grain leather.....	3 00
Improved Roll Holder with Automatic Tally (empty).....	7 00
Transparent Film for 50 exposures.....	3 30
“ “ “ 100 “	6 60
Blair Rapid Detective Lens	12 00
Taylor & Hobson English Lens with Iris Diaphragm.....	25 00
Darlot Lens.....	15 00

THE 5 x 7 FOLDING HAWK-EYE

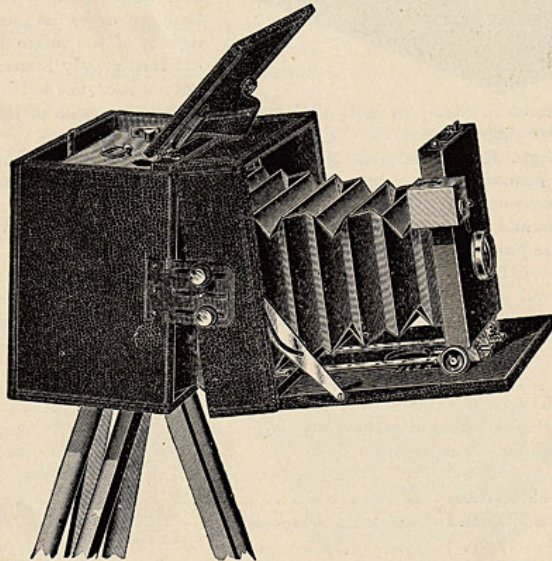
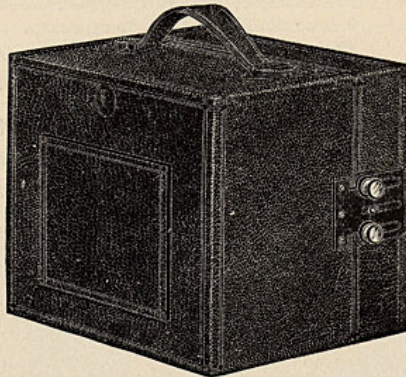
Is the acme of simplicity and convenience, being the most compact double-swing camera of its size yet produced; it measures only $7 \times 7\frac{1}{2} \times 9$ inches; takes 5 x 7 pictures; carries three double holders for glass plates or cut films, or automatic tally-roll holder for fifty continuous exposures.

One great advantage of this camera, in addition to its extreme portability, is its adaptability to use with either glass plates, cut films or films in rolls as desired. No special connecting frame is necessary for the change from one to the other, but holders for glass plates, for cut films, or for films in rolls, are slipped into the Folding Hawk-Eye in exactly the same manner.

The shutter is of the same style as in the regular '91 model Hawk-Eye. It is the acme of simplicity; free from bothersome complications, and instantly adjustable in speed for "snap shots" or for time exposures of any duration.

The lens is a double achromatic Rapid Rectilinear, of excellent working capacity, and is provided with revolving diaphragm.

This camera may also be used on a tripod, and is provided with swing-back, as shown in cut.



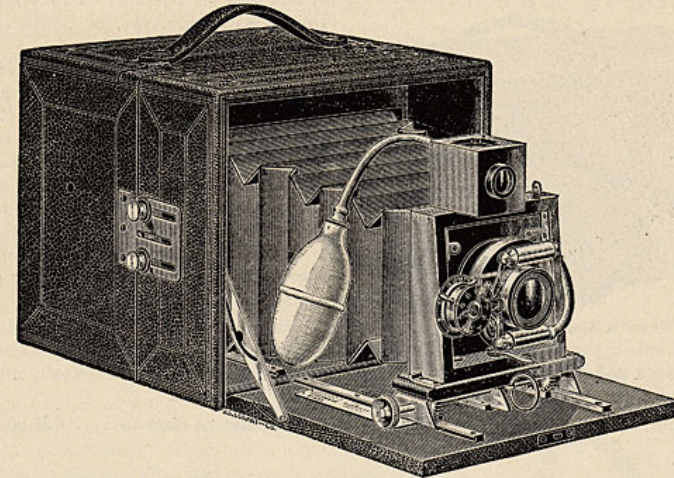
PRICES.

The Folding Hawk-Eye, 5 x 7, with ground-glass screen for visual focusing, three "Feather-Weight" double holders for glass plates, or same for cut films.....	\$40 00
Roll Holder, with Automatic Tally.....	9 00
Blair's Film, for twenty-five, 5 x 7 Exposures.....	3 00
Blair's Film, for fifty, 5 x 7 Exposures.....	6 00

Taylor & Hobson Rapid Rectilinear lenses in special cells to fit the regular mounts in the Folding Hawk-Eye, can be furnished at only \$7.50 additional, making price of camera complete, with lens and three holders, \$47.50.

THE 5 x 7 FOLDING HAWK-EYE, No. 2.

With Taylor & Hobson or Kamaret Lens, and Bausch & Lomb Improved Shutter.



The strength of the above combination from a photographic standpoint will be readily recognized, and the beautiful finish and fine workmanship of camera, lens and shutter will also tend to make this the most desirable outfit of the season for those who want the very best.

The No. 2 model has, in addition to the double swing, a sliding front, thus giving every adjustment which will ever be required.

This camera is of extra fine hand-finish throughout, the woodwork being ebonized and French polished, and the leather is genuine morocco.

The lenses are guaranteed, and, if in any way unsatisfactory, may be returned and exchanged.

The Bausch & Lomb Iris diaphragm shutter is the latest and most popular model, and may be set for automatic exposures of from 1-100 of a second to 3 seconds with absolute accuracy, as well as for longer exposures in the usual manner. The lightness of this shutter, and freedom from noise and jar in quick exposures, also commend it.

Price of the No. 2 Folding Hawk-Eye, as above, with three holders for plates or cut films..... \$60 00

THE No. 3 FOLDING HAWK-EYE.

This is substantially the same as the No. 2 Folding, and is designed for those who wish to use their own favorite lenses or shutters.

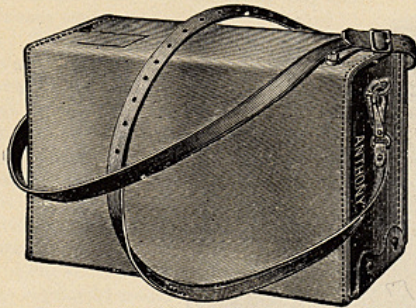
In ordering, specify length of lens tube to be used, from back of flange to front of tube, and a camera of right depth to fold without unnecessary space in front of the lens will be furnished.

Lenses and shutters may be fitted, adjusted and focused at factory at slight additional expense.

Price of the No. 3 Folding Hawk-Eye (without lens or shutter), with three holders for plates or cut films..... \$30 00

THE APOLLO CAMERA

Is a Magazine Detective Camera for $3\frac{1}{2} \times 4\frac{1}{2}$ pictures, finished in finely polished walnut, with metal trimmings, and fitted with a handsome leather carrying case with shoulder strap. It is arranged to carry fifty plates or films at a time, and may be operated without removal from the carrying case, or independently of it, as desired.

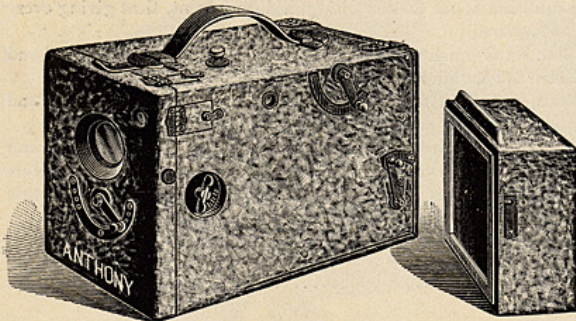


The working of the magazine is very simple and effective, the raising of a lever bar on outside of the camera serving to remove the exposed plate, while a similar lever brings into focus for the next exposure a fresh plate. The action of the levers serves to rotate a registering dial, in view on the outside of the box, causing it to record each exposure, enabling the operator to tell at a glance just how many unexposed plates he has.

The lens is a Steinheil Aplanatic, and is fitted with a shutter, working for either time or instantaneous exposures, and changed from one to the other by the mere turning of a button. Two screened finders, one for upright and the other for horizontal views, are neatly fitted to this camera, making it a very complete and satisfactory instrument.

Price, including carrying case and fifty slides for plates or films..... \$25 00

ANTHONY'S MAGAZINE CAMERA



is an entirely new magazine camera, in which twelve or twenty-four exposures may be made without drawing a slide or inserting a plate holder, and twelve or twenty-four new plates or films may then be inserted and exposed without going into a dark room.

It is adapted to 4×5 size, either vertical or horizontal, and is so

arranged that the plates or films stored in the camera are exposed one at a time, as desired, and then by the simple pressure of a spring, each plate, after exposure, is dropped into a reservoir at bottom of the camera, where it may remain until the whole are exposed or be removed earlier for development, as desired. The plates may be changed and the camera refilled in broad daylight, the process being simplicity itself. Accompanying the camera is a magazine which is filled in the dark room, and which holds, like the camera, either 12 plates or 24 films. When it is desired to refill the camera, this magazine is fitted on the back of camera in the same way that a ground glass is attached to an ordinary box, and by drawing two dark slides, one from the camera and the other from the magazine, the entire lot of fresh plates are deposited in position to be exposed in rotation; the slide is then returned to back of camera and the empty magazine detached, after which it is secured at the bottom of the camera and slide drawn therefrom, when the exposed plates will drop into the magazine. The slides are now both replaced and the magazine, full of exposed plates, detached.

The size of this camera is only $10\frac{1}{2} \times 7\frac{1}{2} \times 6\frac{1}{2}$, while the magazine measures only $6\frac{1}{2} \times 6 \times 2\frac{1}{2}$.

It is fitted, as above stated, to carry either glass or films, or both, the turning of two metal catches adapting it to the different thicknesses of either, and owing to this difference in thickness 24 films may be carried, as against 12 glass plates. This camera is covered in black leather with black metal trimmings, and is unsurpassed for neatness of appearance.

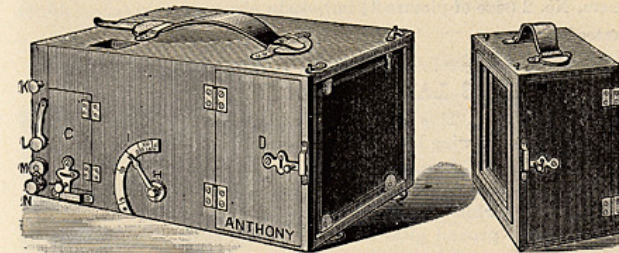
It is provided with a double achromatic lens, and has the advantage that it may be focused from the outside, by movement of a lever on the side of the box; it is provided with a finder which is adjustable for horizontal or upright views, and has a shutter, simple of construction, but thoroughly practicable, which may be used for either time or instantaneous exposures.

Price \$45 00
Extra Magazines..... 3 00 each.
Extra Kits..... 1 00 per doz.

ANTHONY'S CLIMAX DETECTIVE SATCHEL CAMERA

Is made for use in either a short or long satchel of fine finish and appearance, and when enclosed in the long satchel is complete with rear compartment, which will contain five extra double plates. This camera can be manipulated without removal from the satchel, and is a thoroughly reliable and convenient detective instrument. The working parts of the camera are shown herewith, by which it will be seen that it is manipulated entirely on the left side. The shutter may be set, released and its speed regulated without opening the camera, and the lens diaphragm may be changed by opening the door C.

The removable rear compartment, besides carrying five extra double holders, serves admirably in place of a focusing cloth.



It is made only in one size, namely, 4×5 .

PRICES.

	Instantaneous Landscape Lens.	R. R. Hemispherical Lens.	Dall- meyer R. R. Lens.
Climax Detective mahogany camera, with six, 4×5 dry plate holders, short satchel and rear compartment	A \$25 00	B \$41 00	C \$63 00
Covered with black grained leather and with metal work oxidized black, landscape lens, long satchel, six holders and rear compartment.....	D 30 00	E 45 00	F 67 00

LILLIPUT CAMERA.



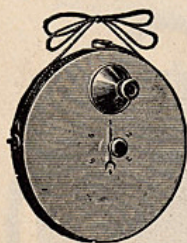
This is the handiest, lightest and most easily handled detective camera ever put upon the market. In outward appearance it resembles a small hand bag, being made of fine sole leather and fitted with a sling strap for convenience in carrying. It occupies a space only 4 x 4 x 6 inches, and notwithstanding its small bulk, carries six double holders, which may be filled with glass plates or films, and which are emptied and refilled by the operator himself, precisely as if in a regular camera.

The lens covers an angle of about 60°, and is adjusted to universal focus, being therefore always in readiness for use. The camera is worked without taking from the case, and all mechanism is entirely concealed from view. The size of picture obtainable is 2½ inches square, and they may be either time or instantaneous exposures, at will of the operator, the shutter having an adjustment for either the one or the other. Price, including carrying case



and strap, camera, lens, six double plate holders, twelve kits for same, nine dozen celluloid films and ruby lantern, \$15 00. Dry plates for this camera, 25 cents per dozen.

THE CONCEALED VEST CAMERA.



This minute camera is made to be suspended from the neck of the operator and worn under both coat and vest, with the lens protruding through the buttonhole of the vest.

It is made of metal, nickel plated, and is provided with circular plate for six exposures without changing.

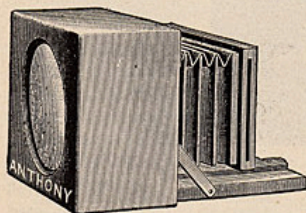
The camera is 6 inches in diameter, ¾ inch in thickness, and weighs only ½ lb. The lens is of universal focus and concealment almost perfect.

Fine nickel-plated camera, in handsome box, with 6 plates, for 36 pictures, for No. 1, or 24 large pictures for Camera No. 2.

Nickel or Oxidized Camera, No. 1 (size of picture 1½ in.), each..... \$10 00
 Magic Lantern Size Camera, No. 2 (size of picture 2½ in.), each..... 15 00

Every camera guaranteed perfect.

ANTHONY'S LANTERNOSCOPE.



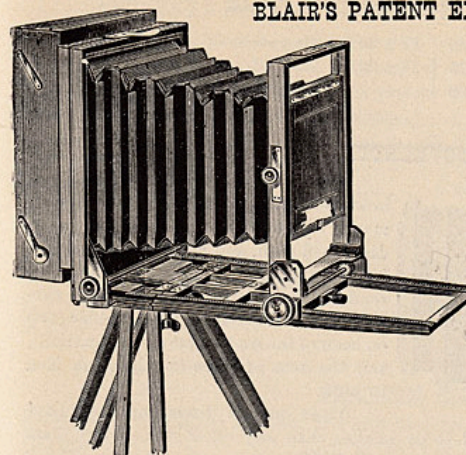
This is a novel and beautiful contrivance for viewing lantern slides without the aid of the lantern.

It is, as shown in cut, provided with a magnifying lens at one end, after the manner of the graphoscope, while the slide is inserted in the other end against a ground glass and may be focused by means of the extension bellows. When not in use it folds into small compass.

It is made in finely finished mahogany and is an instrument which every amateur should possess.

Price.....\$10 00

BLAIR'S PATENT EXTENSIONS.



Illustrating New Model Extension as applied to Camera.

The only practical device for using plates of a larger size than provided for by the camera proper.

It often occurs that the possessor of a camera desires *very much* to make an occasional picture larger than his camera is capable of making.

Blair's Patent Extension is an article which meets this want, being a contrivance for placing the plate a sufficient distance from the back of Camera proper, to allow the rays to spread to the size of plate to be used on the Extension.

Thus, one Camera may be made to answer the purpose of two, with a saving in time and money.

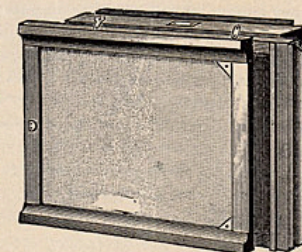
REDUCED PRICE LIST OF EXTENSIONS.

Prices include one Feather-Weight Holder and canvas carrying case, with strap and handle, the extension finished in French polish.

1540,	5 x 8	Extension for	4½ x 5½	Camera...	\$5 00
1541,	6½ x 8½	"	5 x 7	"	7 00
1542,	8 x 10	"	5 x 7	"	7 00
1543,	8 x 10	"	5 x 8	"	7 00
1544,	8 x 10	"	6½ x 8½	"	7 00
1545,	10 x 12	"	5 x 8	"	9 00
1546,	10 x 12	"	6½ x 8½	"	9 00
1547,	11 x 14	"	8 x 10	"	11 00

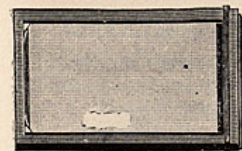
Extensions are made to fit Compact, Normandie and Knickerbocker Cameras, and will be adapted to use Eclipse and Victor Holders as well as the Feather-Weight.

Bellows Extensions and other special patterns to order. A more complete description and price list of these goods will be sent upon application.



New Model Extension with spring actuated ground-glass and Feather-Weight Holder.

BLAIR'S FEATHER-WEIGHT DOUBLE PLATE HOLDERS.



Are absolutely light-tight, substantial and accurate. They are extremely compact and light in weight, and so constructed that the slide may be drawn from either right or left of the holder when desired to be reversed in cramped positions. All sizes under 10 x 12, unless otherwise ordered, are fitted with blackboard registering slides.

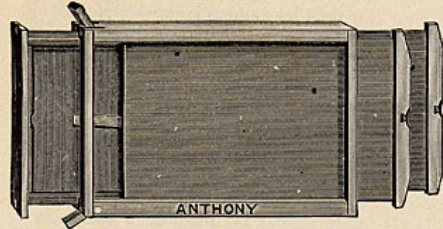
PRICES.

No. 2090	3½ x 4½	\$1 00	No. 2095	5 x 8	\$1 35
" 2091	4 x 5	1 00	" 2096	6½ x 8½	1 60
" 2092	4½ x 5½	1 00	" 2097	8 x 10	1 85
" 2093	4½ x 6½	1 25	" 2098	10 x 12	3 50
" 2094	5 x 7	1 25	" 2099	11 x 14	4 00

NOVEL DRY PLATE HOLDERS (PATENTED).

10 x 12 (single), each.....	\$5 50	17 x 20 (single), each.....	\$12 00
11 x 14 " "	6 75	18 x 22 " "	14 00
14 x 17 " "	10 00		

ANTHONY'S PATENT ECLIPSE AND NOVELETTE DOUBLE DRY PLATE HOLDERS



These are the most compact plate holders in the market, the rabbit commonly found on the plate holder being dispensed with, and placed on the camera instead, thus saving the additional weight rendered necessary for twelve such rabbits when made on the plate holder (two on each of the six holders usually carried), and the item of three-fourths of an inch in bulk.

Their outside dimensions, exclusive of slide caps as given below, will be found to be smaller than any other double dry plate holders made.

The construction of our Patent Perfect Double Holders is such that several sizes of plates can be used without the aid of inside kits, for instance, in a 5 x 8 holder any plate measuring five inches one way and not over eight inches the other can be used, 4 x 5, 5 x 7, etc. This is very convenient where experiments regarding time are being made, and narrow strips tried in place of using an entire plate, or different sizes of plate with inside dry plate kits.

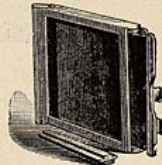
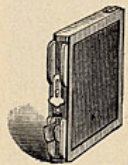
Thin wooden frames can be supplied for holding still smaller sizes, if desired, so that the amateur can experiment with plates smaller than the extreme limit of his holders, and at much less expense. (See Inside Dry Plate Kits.) They are also much more readily managed in the ruby light than any other style.

Outside Dimensions.	For Plates.	Price.
$\frac{3}{4}$ x $5\frac{1}{2}$ x $7\frac{1}{2}$	$4\frac{1}{2}$ x $6\frac{1}{2}$	each \$1 25
$\frac{3}{4}$ x 6 x 8	5 x 7	" 1 25
$\frac{3}{4}$ x 6 x 9	5 x 8	" 1 35
$\frac{3}{4}$ x $7\frac{1}{2}$ x 10	$6\frac{1}{2}$ x $8\frac{1}{2}$	" 1 60
$\frac{3}{4}$ x 9 x $11\frac{1}{2}$	8 x 10	" 1 85
1 x $11\frac{1}{2}$ x $13\frac{1}{2}$	10 x 12	" 6 00
1 x $12\frac{1}{2}$ x $15\frac{1}{2}$	11 x 14	" 7 00
$1\frac{1}{8}$ x 16 x 19	14 x 17	" 10 00

The Novelette and Eclipse Holders are of the same dimensions and style, except that the former have pins in the edges by which they are held fast to the camera by hooks, whereas the Eclipse Holders are used with cameras having springs in place of hooks.

ANTHONY'S PATENT DETECTIVE DOUBLE DRY PLATE HOLDERS.

These are unquestionably the lightest and most convenient holders of their size in the market. The plates are placed into and removed from the holder at one of the ends, which is opened by pressing aside the metal band that secures the wooden cover. (See right hand cut.) These holders have hard rubber slides, and are provided with an ingenious device for holding slides in place and preventing their being accidentally drawn out when the holder contains plates.

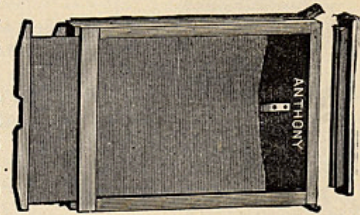


These holders are used with our "Detective," "4 x 5 Novelette," "Bicycle" and "Bijou" cameras. They are also supplied with our Manhattan No. 1 and O. N. A. No. 1 B equipments. Made in the following sizes only:

$3\frac{1}{2}$ x $4\frac{1}{2}$	each \$1 40	$4\frac{1}{2}$ x 5	each \$1 40
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ANTHONY'S PATENT ZEPHYR DOUBLE DRY PLATE HOLDERS.

Similar to the Detective Holders, but with paper slide. These can be used with any of our Amateur Outfits, and when fitted with pins at the sides can be attached to Novelette Cameras.



4 x 5	\$1 20
$4\frac{1}{2}$ x $6\frac{1}{2}$	1 25
5 x 7	1 25
5 x 8	1 35
$6\frac{1}{2}$ x $8\frac{1}{2}$	1 60
8 x 10	1 85
10 x 12, with hard rubber slides	\$3 00
11 x 14, " "	4 50
14 x 17, " "	6 00

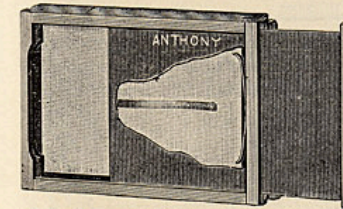
PHANTOM HOLDERS

Are the same as Zephyr Holders, but with hard rubber slides.

$4\frac{1}{2}$ x $6\frac{1}{2}$	each \$1 70	5 x 8	each \$1 80
5 x 7	" 1 75	$6\frac{1}{2}$ x $8\frac{1}{2}$	" 2 20
8 x 10	each \$2 65		

ANTHONY'S VICTOR DOUBLE DRY PLATE HOLDERS.

are constructed to be filled and plates removed from the front, on withdrawal of slide in dark room, and the plates are held firmly in position when the slide is drawn in the camera, by the spring and two grooved shoulders at ends of the holder. An ingenious safety latch is attached to this holder, which renders it impossible to draw more than one slide at a time, thus preventing many accidents. These holders fit all view cameras of our manufacture that have our patent spring-actuated ground glass. Our regular dry plate kits can be used in this holder, which is as light as the lightest weight holder made.



PRICES.

$4\frac{1}{2}$ x $6\frac{1}{2}$	\$1 25	$6\frac{1}{2}$ x $8\frac{1}{2}$	\$1 60
5 x 7	1 25	8 x 10	1 85
5 x 8	1 35	10 x 12	3 00
11 x 14	\$4 50		

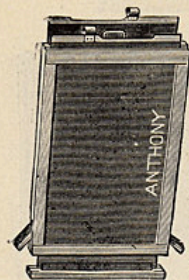
ANTHONY'S PATENT PERFECT DRY PLATE HOLDERS OR SHIELDS.

(WET PLATE FOCUS.)

These shields are reversible (except the 5 x 8) and are made for the convenience of those who wish to use them on the same camera as for wet plates, without changing the focus of the ground glass. They fit the regular Success or Climax View Cameras, but not the Dry Plate Cameras. Light inside frames for smaller sizes of plates can readily be used in them, of which we have a large number constantly in stock. In ordering the above, please give the exact outside measure of your wet plate shield. Regular sizes supplied as follows:

For 5 x 8 stereoscopic plates, each	\$3 75	11 x 14 Reversible	11 00
$6\frac{1}{2}$ x 8 $\frac{1}{2}$ Reversible	\$6 00	14 x 17 "	15 00
8 x 10 "	7 00	17 x 20 "	17 50
10 x 12 "	9 00		

Special sizes, to order, will cost extra.



FILM HOLDERS.

These holders are for use with our Climax Negative Films, and for compactness, lightness and practicability are unequalled. They are made in the same style as our Patent Novelette Holders for glass plates; but, being adapted to the use of the Climax Films, are consequently very much lighter than they could be made to carry a heavier plate.

4 x 5	each \$1 20	6½ x 8½	each \$1 60
4½ x 6½	" 1 25	8 x 10	" 1 85
5 x 8	" 1 35	10 x 12	" 6 00

ANTHONY'S PATENT METAL FILM KITS.

These kits are, as their name implies, made of metal, and are provided with a lip on each of two sides, under which the film is slipped; they are light and easier of handling than any other kit in the market. They are made in the following sizes:

2½ x 2½	each \$0 05	5 x 7	each \$0 11
3½ x 4½	" 05	5 x 8	" 13
4 x 5	" 06	6½ x 8½	" 15
4½ x 6½	" 09	8 x 10	" 18



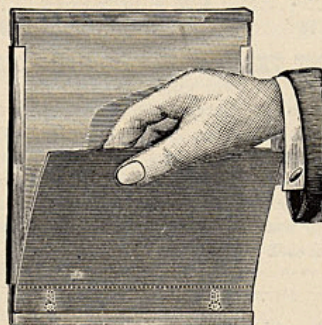
BARNETT'S FILM CARRIERS.

The introduction of films has called for a medium or carrier to handle them. To enable the photographer to use films in holders now on the market, Barnett's Film Carrier provides the means of handling this new negative producer as flat as glass. The film is held at each end.

Sizes.	Price per Doz.	Size.	Price per Doz.
3½ x 4½	\$1 30	5 x 7	\$2 00
4 x 5	1 40	5 x 8	2 00
4½ x 5½	1 40	6½ x 8½	2 25
4½ x 6½	1 60	8 x 10	2 50

Other sizes made to order at special prices.

BARNETT'S PATENT UNIVERSAL FILM CARRIER.



The Universal Film Carrier will carry films perfectly flat; fit any holder now made; and by means of a movable end, easily adjust any unevenness of edge, and is perfect for the use intended.

DIRECTIONS FOR FILLING THE UNIVERSAL CARRIER.

First.—Slide the films into grooves on side of carrier to within a short distance of end.

Second.—Place a piece of paper over end of plate into brass groove, when the film can be readily pushed in place.

Third.—Extend the other end of carrier by pulling out the slide. Use same means as in adjusting at other end, when the slide can be closed. There is no necessity of the fingers touching the film in placing in carrier.

Sizes.	Price per Doz.	Sizes.	Price per Doz.
3½ x 4½	\$2 00	5 x 7	\$2 75
4 x 5	2 00	5 x 8	2 75
4½ x 5½	2 25	6½ x 8½	3 25
4½ x 6½	2 50	8 x 10	4 00

INSIDE DRY PLATE KITS.

Thin wooden frames to hold small-sized plates, fitting in larger shields, thus enabling the amateur who has a large camera to use small plates as well as large ones.

To fit Shields.	Each.	To fit Shields.	Each.
4 x 5—3½ x 4½	\$0 25	10 x 12—8 x 10	\$0 55
5 x 8—3½ x 4½, 4 x 5, and 4½ x 5½	30	11 x 14—8 x 10, 10 x 12	60
6½ x 8½—4 x 5, 5 x 8, 4½ x 6½, 5 x 7	30	14 x 17—11 x 14	75
8 x 10—4½ x 6½, 5 x 7, 5 x 8, 6½ x 8½	35	18 x 22—17 x 20	1 00

REVERSIBLE PLATE HOLDERS OR SHIELDS FOR WET PLATES.

With Lewis's Patent Universal Solid Glass Corners, to fit Success Cameras, without Ground Glass.

For 1-4 Camera.	Outside Holders only.	Outside Holders and Kits.	For 11 x 14 Camera.	Outside Holders only.	Outside Holders and Kits.
" 1-2 "	\$4 00	\$5 00	" 14 x 17 "	\$12 00	\$15 00
" 4-4 "	4 00	5 75	" 17 x 20 "	15 00	18 75
" 8 x 10 "	6 50	8 65	" 18 x 22 "	17 50	22 00
" 10 x 12 "	7 50	10 00	" 20 x 24 "	24 00	29 00
	10 00	12 85		26 50	32 50

SPECIAL HOLDERS FOR WET PLATES.

For 8 x 10 Climax Imp. Box, saving bottle, without kits	\$10 50
" N Multiplying Box, with Rabbeted Kits only	12 00

KITS OR INSIDE FRAMES FOR WET PLATE HOLDERS.

To hold	Fits in Shield.	Pat. Glass Rabbeted for Corners. Ferrotypes.	To hold	Fits in Shield.	Pat. Glass Rabbeted for Corners. Ferrotypes.
1-9 Plate	1-4	\$0 50	5 x 8 Plate	8 x 10	\$0 90
1-6 "	1-2	60	6½ x 8½ "	8 x 10	1 00
1-4 "	1-2	65	7 x 10 "	11 x 14	60
1-2 "	5 x 7	30	8 x 10 "	10 x 12	1 10
1-2 "	4-4	75	8 x 10 "	11 x 14	1 20
4½ x 6½ "	4-4	75	10 x 12 "	14 x 17	1 60
5 x 7 "	4-4	75	11 x 14 "	14 x 17	1 60
4½ x 6½ "	8 x 10	90	14 x 17 "	17 x 20	1 80
5 x 7 "	7 x 10	30	17 x 20 "	20 x 24	2 25
5 x 7 "	8 x 10	90			

CLIMAX DRY PLATE HOLDERS.

FOR CLIMAX VIEW CAMERAS.

11 x 14, single	\$7 50	17 x 20, single	\$11 75
14 x 17, "	10 50	18 x 22, "	15 00

With an improved curtain slide as represented in cut on page 22. Above prices are for holders without kits. Prices of kits will be found on another page.

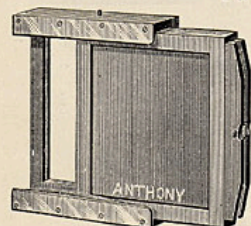
FAIRY PLATE HOLDERS.

These are the same style plate holders as the Novelette, but are fitted with hard rubber slides.

4½ x 6½.....each	\$1 45	6½ x 8½.....each	\$2 00
5 x 8	1 65	8 x 10	2 45

KODAK ADAPTER.

For Use of Glass Plates in the Folding Kodak.

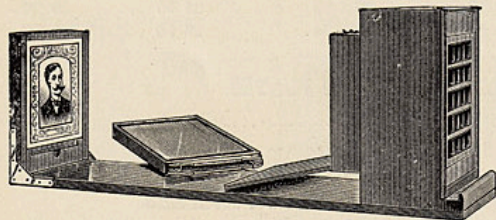


Consists of a false back which is to be inserted in place of the roll-holder, and into which the ordinary plate-holder fits, the same as in a regular camera, the adjustment being such that the plate comes into the same plane of focus as is required with the roll-holder.

Price, 4 x 5.....\$2 00 | Price, 5 x 7.....\$2 50

HYATT'S STAMP PORTRAIT APPARATUS.

With this wonderful little instrument the photographer is enabled to reproduce from a cabinet photograph 25 small pictures, the size of a postage stamp, on a 5 x 7 plate, by



Patented July 12, 1887.

simply placing the picture to be copied on the easel behind the matt or border and exposing and developing the plate in the usual manner.

No focusing is required, as all the lenses are accurately adjusted and focused.

Every instrument thoroughly tested and guaranteed.

Stamp Photo, size for 25, on 5 x 7 plate, including 2 borders.....	\$50 00
Minnette Photo, size for 8, on 5 x 8 plate, including 2 borders	40 00
Perforators for perforating same under our Stamp Patent (also issued July 12, 1887).	35 00
Extra Borders or Designs, each.....	1 00

Adhesive preparation for gumming the backs of same:

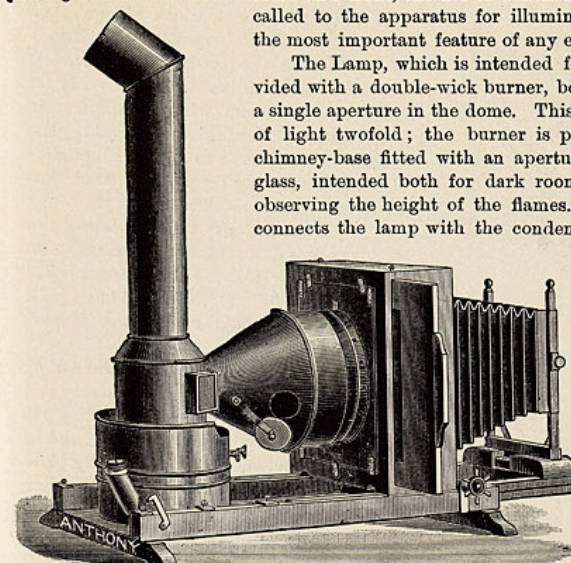
1 pint can.....	45 cents.	½ gallon can.....	\$1 25
1 quart "	75 "	1 "	2 00

Burnishing the sheets of stamp photos is done, after they have been gummed and dried, by folding the ends of the sheet over a piece of cardboard and passing them through the burnisher together.

COOPER'S UNIVERSAL ENLARGING LANTERN.

Patented Cooper & Lewis October 11, 1887, No. 371,262.
T. H. McAllister April 6, 1886, No. 339,451.

The cuts give an admirably clear idea of the Universal Lantern, and at a glance any one acquainted with the mechanism of projecting lanterns will see its advantages. With only a passing reference to the camera and front, the use of which is obvious, your attention is



called to the apparatus for illumination, which is by all odds the most important feature of any enlarging lantern.

The Lamp, which is intended for use with kerosene, is provided with a double-wick burner, both flames emerging through a single aperture in the dome. This feature increases the volume of light twofold; the burner is provided with a close fitting chimney-base fitted with an aperture covered with non-actinic glass, intended both for dark room illumination and also for observing the height of the flames. A conical light conductor connects the lamp with the condensing lenses, and is made to

telescope so as to adjust the light accurately to the focus of the condensers; this light conductor has an aperture at the side covered with a movable metallic disk, and is intended to admit of the operator finding the centering point of his flame on the condensers; this he will see at a glance by the reflector. The lamp is not rigid, but can be revolved so as to bring the flame in any desired

position. Some negatives require a more intense light than others, and experience will show how to arrange the light for any particular occasion.

The form of this lantern is such that all heat passes upwards through the chimney, and as there is no boxing around the apparatus it is always cool, and all risk of breaking lenses or negatives is avoided. The change from the use of artificial light to daylight is better shown in the cut than described in writing. With this lantern and a half-inch stop in a half-size portrait lens, life-sized enlargements from cabinet negatives may be easily made with Anthony's Reliable Bromide Paper in from thirty-five seconds to one minute, according to density of negative.

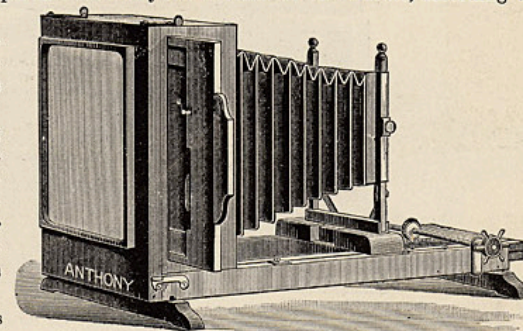
The design of this lantern is the result of long practical experience with various methods of illumination for enlarging, and we can guarantee its giving results as perfect as the electric light at a cost that makes comparison ridiculous. This lantern is also admirably suited for slide projection, and is therefore of double value to societies and colleges.

Any double combination lens may be used as an objective with this lantern—a portrait lens for enlarging portraits and landscape lens for landscapes.

This lantern may be transformed into an 8 x 10 portrait or copying camera by the addition of an adapter, double dry plate holder, and ground glass, at an extra expense of \$10.00.

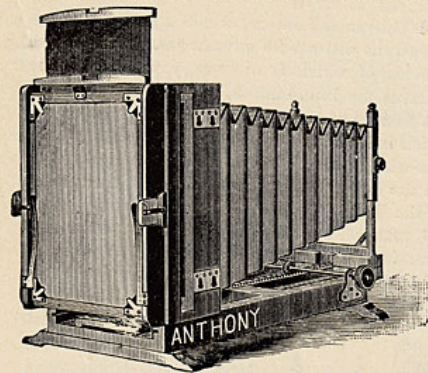
Price, without objective (fitted with two 5½-inch condensers), \$40 00

"	"	8	"	"	60 00
"	"	9	"	"	80 00
"	"	10	"	"	100 00



Above shows it as transformed into a Daylight Enlarging Camera.

FOR DAYLIGHT ENLARGING.—Remove the lamp and condensers, rack the front inward as far as it will come, then raise the back of the bellows-bearing frame from its position to the back



Cooper's Lantern as transformed into Copying or Portrait Camera.

of the bed-board on which it will be securely held by the screw heads which fit into the key-hole slots corresponding. Remove the front in the same way and set it back on the screws designed for it, which will be found on the movable bed operated by the rack work. Attach the ground-glass frame to the back, and the instrument is ready for use. A dark room with an aperture in the window allowing the ground-glass end to fit firmly so as to exclude all outside light, but allowing an unobstructed view of the sky, is the most satisfactory.

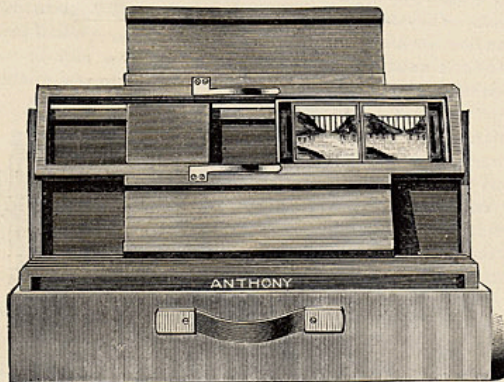
If you cannot get a clear view of the sky, use a mirror at a proper angle to reflect the sky above. White card-board reflectors may be used, but nothing equals the mirror. A shelf should be fastened

to the window to support the weight of the camera.

USED AS A COPYING OR PORTRAIT CAMERA.—Besides the double use for artificial or daylight work, this camera may be fitted with an attachment by which it can be quickly and easily adapted to the purposes of a copying or portrait camera. The camera being put together as in use for daylight enlarging, the ground glass and carrier are removed, and in their place a regular camera back is buttoned on. This is provided with a double dry plate holder, 8 x 10, which is slid into position under the ground glass, as shown in the cut. For ordinary work up to 8 x 10 in the gallery this is as good as any camera made.

Price of Attachment with 8 x 10 Double Dry Plate Holder, in addition to cost of Lantern..... \$10 00

MAGIC LANTERN ATTACHMENT TO COOPER'S ENLARGING LANTERN.



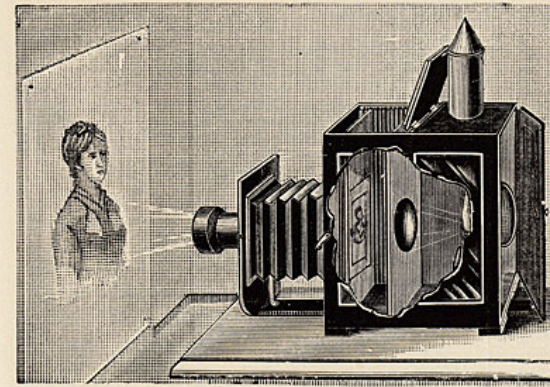
This cut represents the attachments which may be used for the exhibition of slides of views or scientific subjects, and makes the apparatus complete and specially suited to the use of schools, colleges and societies.

Consists of Frame, six Carriers and box.

Price \$7 50

ANTHONY'S PATENT IMPROVED ENLARGING LANTERN.

The great merit of this new enlarging camera is its simplicity of construction, economy, and practical usefulness. It is intended for making enlargements on gelatino-bromide rapid



printing paper by artificial light, requiring only from sixty to ninety seconds' exposure for a life-size head. Another purpose for which it admirably serves is that of a dark room lantern. All of them are provided with non-actinic glass panels in the sides of the lantern. It can also be used as a copying camera for making lantern transparencies.

Grooves in the interior admit of changing the relative positions of the negative and the two 5½-inch

condensing lenses. It is very compact, the size being 22 x 15 x 8 inches.

Price, \$25 00; including one-quarter size E. A. portrait lens, \$33 75.

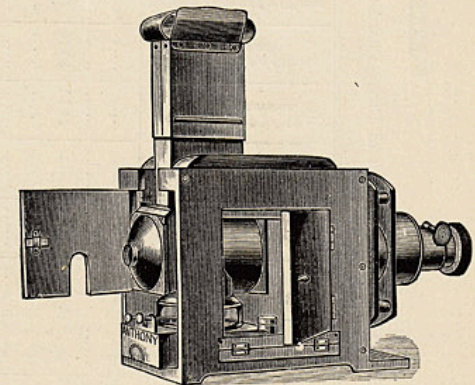
ANTHONY'S TRIPLEXICON MAGIC LANTERN.

We have seen many lanterns in our time, but in several respects this eclipses them all, especially those for use with kerosene oil only. The lamp itself is completely shielded with a well-made hood of Russian iron, and is provided with the patent triplex wick, which affords the utmost illumination obtainable with any oil light. The back and front of the hood are closed interiorly by glass plates, specially annealed to withstand extreme heat, and the rear one is again closed by perforated sheet iron covered interiorly with a highly-polished metallic reflector, back of which is inserted an eye-piece of ruby glass. The latter enables one to always observe the condition of the flame and wicks, and regulate them, without disturbing or discontinuing the action of the instrument. The chimney is made telescopic, to pack more compactly.

The diffusing lens, specially constructed for the purpose, is mounted on a cylindrical slide, to extend, if necessary, the focal distance, while the condensing lenses, which are of four-inch diameter and can be separated for cleaning, are inserted in a corresponding slide within the wooden case.

The case itself is quite compact, and appears very ornamental in its highly-polished mahogany, with its little hinged ventilators on either side at the bottom. The metal front is burnished and has a spiral spring adapter for the admission of the slides. A substantial wooden box contains all, and serves also as a table for the instrument while in use.

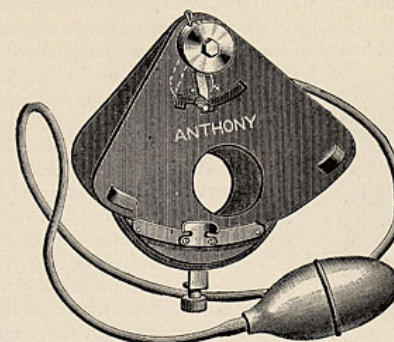
Altogether, this is the finest example of its kind we have yet seen. It will also serve admirably for enlargements with the gelatino-bromide paper. It is destined to become very popular. Price, \$30 00.



EXTRA PARTS OF APPARATUS.

Including Slides for Holders and Front Boards, Ground Glass, Tripod Screws, Tripod Screws, and Bellows for Cameras.

	Wood Slides for Novel Holders.	Extra Fine Ground Glass for Cameras.	Focus Screws for Novel Cameras.	Wood Slides for Bonester Holders.	Front Boards for Climax Portrait Cameras.	Front Boards for Climax View Cameras.	Rubber Bellows for Climax Portrait Cameras.	Cone Rubber Bellows for Climax View Cameras.	Press Board Slides for Double D. P. Holders.	Rubber Slides for Double D. P. Holders.	Front Plate Outlets.	Polished Front Boards for Novellette Cameras.	Polished Front Boards for Non-Stereo Novellette Cameras.	Polished Girassian Walnut Front Boards for Reversible Back and Phantom Cameras.	Polished Front Boards for Victor Cameras.	Straight Rubber Bellows for Dry Plate Outlets.	Cone Rubber Bellows for Novellette and Baby Cameras.	Cone Rubber Bellows for Reversible Back Cameras.	Stereo Partitions for Cameras.	Focus Screws for Novellette Cameras.	Tripod Screws for Cameras.	
3 1/2 x 4 1/2	\$0.10	\$0.10	\$0.15	\$1.00	\$1.50	\$0.25
4 x 5	10	10	\$0.20	1.25	2.00	\$2.25	25
4 1/2 x 5 1/2	.....	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
4 1/2 x 6 1/2	.....	15	\$1.75	.....	.....	.....	.....	.....	15	.....	.....	.....	.....	.....	.....	.....	2.50	2.75	.....	\$1.75	25
5 x 7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5 x 8	.....	20	1.75	.....	.....	.....	.....	.....	15	30	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5 1/2 x 8 1/2	.....	25	1.75	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
8 x 10	.....	32	1.75	\$0.70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
10 x 12	\$0.75	50	1.75	1.25	.....	.....	.....	.....	35	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
11 x 14	1.15	75	2.00	1.60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
14 x 17	1.35	1.00	2.00	2.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17 x 20	1.60	1.35	2.00	2.50	1.25	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
18 x 22	2.00	1.65	2.00	2.75	1.25	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
20 x 24	.....	.....	.....	3.25	1.25	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
22 x 27	.....	.....	.....	3.50	1.25	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
25 x 30	.....	.....	.....	4.00	1.25	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

THE NONPAREIL SHUTTER,
FOR TIME OR INSTANTANEOUS EXPOSURE.

The hood should be removed from the lens when possible in using this shutter, and care should be taken to have the collar of shutter closely fitted to lens to exclude light.

In order that it may fit any lens, this shutter is provided with a movable collar, which, by the use of three turn screws, may be made either larger or smaller, so that it is adjustable to any ordinary lens.

By a very simple and ingenious device, this shutter is changed from long-time exposure to the most rapid instantaneous working, all that is needed to effect the change being the adjustment of a metal catch.

It is provided with Pneumatic Release, which works either time or instantaneous movement; and for the former is unlike most other shutters in use, inasmuch as the bulb must be compressed for opening the shutter and again compressed for closing it; a metal catch dropping and holding it open until released by the second pressure of bulb, whether for long or short time. The shutter responds instantly to the compression of the bulb, thus giving the operator perfect control of his exposure.

Each shutter is neatly packed in a small mahogany case, which will readily fit into the pocket.

No.	Front Opening of Shutter.	Opening of Adjustable Collar.	Price with Bulb and Tube.
No. 1	1 inch	1 to 1 1/2 inches	\$4 50
" 2	1 1/2 "	1 1/2 to 2 "	4 50
" 3	1 1/2 "	1 1/2 to 2 1/2 "	4 50
" 4	1 1/2 "	1 1/2 to 2 1/2 "	4 50
" 5	2 1/2 "	2 1/2 to 3 1/2 "	6 00

THE PACKARD SHUTTER.

IMPROVED. PATENTED APRIL 28, 1885.

For time and instantaneous exposures.

This shutter is adapted to use on the outside of lens, and is attached to the front hood of same. It is equal to any instantaneous shutter in the market for all-round work.

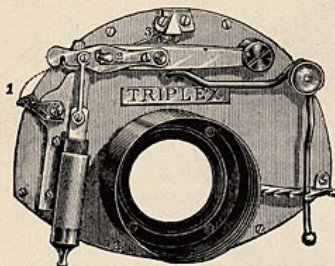
No. 1, 2-inch opening	.....	4 1/2 inches outside.
" 1, 2 1/2 "	.....	5 1/2 "
" 1, 2 3/4 "	.....	6 1/2 "
" 1, 3 1/4 "	.....	7 1/2 "
" 1, 3 3/4 "	.....	8 1/2 "
" 2, 1 1/2 "	.....	4 1/2 "

Price..... \$6 00

THE "TRIPLEX" SHUTTER.

(IMPROVEMENT ON THE "DUPLEX.")

The "Triplex" Shutter gives facility of three methods of exposure: *Quick Instantaneous, Time, Slow Instantaneous.* Time and slow instantaneous are effected in manner similar to silent time, slow instantaneous to Duplex Shutter. Its simplicity of construction and operation, and its mechanism being on front in sight, recommend it. It has met with much favor since its introduction in summer of 1889. It is easily adapted for use in detective boxes, to be released by either, or both, push trip or pneumatic. It is also made in stereoscopic form.



Two-thirds Size 4 x 5 Shutter.

The makers of this shutter assert that practical comparison with any other will demonstrate its unquestioned superiority.

When no particular size shutter is specified in order, lenses as a rule are adapted to shutter having opening less than the largest diaphragm of lens. Thus a 6½ x 8½ lens is adapted to a No. 1 Shutter.

Rotary stops include five openings, largest corresponding with opening in shutter, four others such as are thought best. Requests for special sizes are, however, complied with when possible. Rotary stops up to size No. 1, price \$1.50; over that size up to No. 2A, \$2.00 extra, but not furnished above 2A.

SIZES AND PRICES.

Numbers	00	0	0A	1	1A	2	2A	3	3A	4	5
Openings, in.	¾	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 3/4	2	2 1/4	2 1/2
Prices	\$12 50	13 00	13 50	14 00	15 00	15 50	16 00	16 00	18 00	20 00	22 00

When flange collars are required, as on Ross and lenses similarly mounted, 50 cents extra.

Shutters can be furnished for most standard lenses, fitted ready for use, but it is to the customer's interest to forward his lens tube, otherwise perfect fit is not guaranteed.

THE "HADDEN" SHUTTER. (Patented.)

FOR INSTANTANEOUS OR TIME EXPOSURES.

This shutter is made of metal, with hard rubber face and disks. The latter are propelled by levers, connecting them with the revolving plate, this plate being actuated by means of a lever and cord.

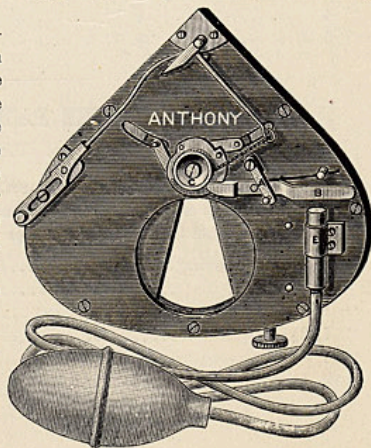
TO OPERATE THE SHUTTER.—For instantaneous work push the lever A to the right (as shown in the cut). Revolve the nut C until the aperture is full, when the focus can be obtained. Revolve it further until it catches, and pull out the slide D as far as it will go; then press the bulb and the operation is effected. For time exposures push in the slide D to slacken the speed, push the lever A to the left, press the bulb and release the pressure. The shutter will remain open until the bulb is again pressed, when it closes instantly.

The shutter is attached to the front of the lens by means of a collar.

They will be kept in stock of two sizes, apertures of 1½ and 1¼ inches.

Collars will be fitted to any of the regular makes of lenses in market, without extra charge.

Price, each.....\$12 00



DIAPHRAGM SHUTTER.

TIME AND INSTANTANEOUS, WITH SILENT TIME ATTACHMENT.

The advantages of the principles involved in the Diaphragm Shutter are so apparent that they have from the outset been fully appreciated. It requires little argument to show that the proper place for opening and closing a Shutter is in the optical axis of the Lens, and in both time and instantaneous photography, it is evident that this Shutter, starting its opening with a pin-hole and gradually increasing to the size of stop for which it is set, and returning in the same manner, will give the effect of a small stop, i. e., more depth and flatness.

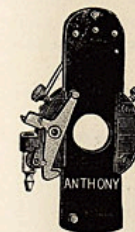
The makers have taken advantage of the possibility of all improvements, and offer their Model '90 with the confidence that it meets every condition. While the Shutter is in itself a nice piece of mechanism, the workmanship and finish are of the highest order.

The advantages of this Shutter over others are as follows:

There are no loose stops. The variation in size of stop is made by turning the black disk, which is supplied with a large index. Absolute control of time exposure. Large index giving correct indication of time, in seconds and fractions thereof. Entire independence of speed regulation from the influence of temperature or humidity. By turning a lever it is set for either time or instantaneous exposure, and remains so set until changed. The movement during exposure is almost absolutely free from concussion. The blades are changed from steel to hard rubber, so that there is no danger from rust. All parts which must be manipulated are placed at the front, easy of access. We guarantee that the Shutters and barrels are absolutely true and optically centered, whether arranged for our Lenses or others.

While we have sample barrels of almost all known Lenses, we find that there is a variation in the thread of almost all makes. We will therefore assume no responsibility in fitting the same, and recommend that the Lenses or Lens-tubes be sent to us to be fitted.

When fitted to Rapid Universal and Alvan G. Clark Lenses (List No. 1).	With extra Bar'l and Diap.	When fitted to Lenses of other manu- facture, leaving barrel intact.	Extra if in Alu- minium moun'g.
3½ x 4½	\$12 50	¾ in. opening of Diap.,	\$4 50
4 x 5	12 50	7/8 " "	4 00
5 x 8	13 50	1½ " "	4 50
6½ x 8½	14 50	1 7/8 " "	5 00
8 x 10	16 00	1¾ " "	5 50
		1½ " "	18 00



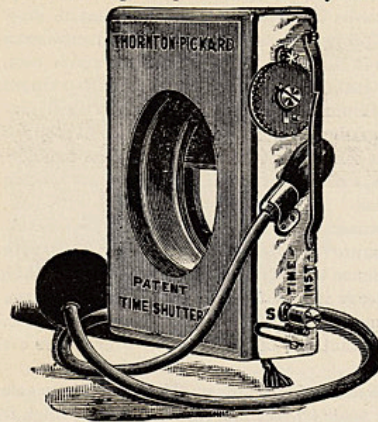
ANTHONY'S DROP SHUTTER.

One of the neatest, simplest and most practicable drop shutters ever made. It is adapted to either time or instantaneous movement by simply turning a small metal button, and the working of the Shutter for either, is simply perfect. The tension being obtained by the use of a rubber band, it may be set at great speed, or may be worked by gravity alone, if desired. This shutter will fit a tube 1½ inches in diameter or less.

Price, complete, with rubber tube and bulb..... \$2 00

THE THORNTON-PICKARD TIME SHUTTER.

For time or Instantaneous Exposures. Adapted to all classes of work. It is made upon the roller blind principle and does away with and takes the place of the cap of the lens; and it should be noticed that a length of exposure of say $\frac{1}{4}$, or $\frac{1}{8}$, or $\frac{1}{16}$ of a second (which would be too quick to get with the cap and too slow to get with an Instantaneous Shutter), can be obtained at will by this "Time" Shutter.



The Thornton-Pickard Time Shutter has been proved to be a most reliable instrument. It is very compact, simple, and does not get out of order. As the shutter takes the place of the lens cap, the chance of shaking the Camera when exposing is avoided. The instrument is entirely free from shake or jar when working, owing to the moving parts being so very light. It will work in any position, and does not go off accidentally.

This Shutter has the important advantage of giving foreground and sky an equal illumination, which for all round work is inestimable, and which, in a measure, accounts for the universal favor with which it has been received by both amateur and professional photographers. Over 10,000 of these shutters have been sold in England in the past two years.

Prices for Lens having Hood up to 2 Inches.....each,	\$7 25
" " " 2 $\frac{1}{2}$ "	" 8 00
" " " 2 $\frac{3}{4}$ "	" 8 25
" " " 2 $\frac{7}{8}$ "	" 8 75
" " " 3 "	" 9 50

DIRECTIONS FOR FITTING SHUTTERS TO LENSES BY MEANS OF THE THORNTON-PICKARD PATENT RUBBER MOULDING.

The Shutters are made to standard sizes, as given on price list, and may be fitted to intermediate sizes by using different thicknesses of india-rubber moulding, which form the adaptors.

The Moulding is made of the following thicknesses:

Nos.	1	2	3	4	5	6	7
	$\frac{1}{16}$ in.	$\frac{3}{32}$ in.	$\frac{1}{8}$ in.	$\frac{5}{32}$ in.	$\frac{3}{16}$ in.	$\frac{7}{32}$ in.	$\frac{1}{4}$ in.

Price, per foot.....30 cts.

It may be used with other makes of shutters also.

Fitting.—It should be cut to the required length with a sharp knife or scissors, and sprung into the aperture, with the rib or flange on the inside.

Adjustments.—The screw in the side of shutter will give the exact adjustment by turning with a screw-driver. An accurate fit upon the lens hood is thus insured.

Any thickness may be rubbed down on the back with a piece of sand paper when too thick, or, in case of emergency, a piece of card-board may be used as packing behind the moulding when it is not thick enough.

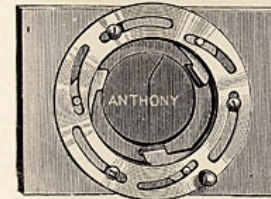
Adaptors.—In case that two or more lenses are required to be fitted to the same shutter, a second piece of moulding may be used inside the first one, so as to form an adaptor which can be put in or taken out as required.

THE LOW SHUTTERS.

These Shutters are each and every one carefully inspected before leaving the factory, and all are guaranteed to be perfect and well made, and we can confidently recommend them to all who desire a thoroughly good shutter for either gallery or out of door work. Order these shutters by number, giving the size of opening in inches.

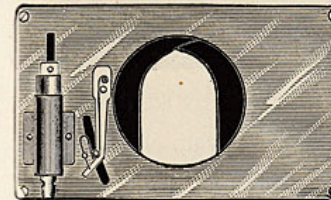
THE LOW ADJUSTABLE BACK

Is an automatic device for holding lens to the shutter. All Kazoo shutters No. 1, and Low Shutters Nos. 8 and 10, are provided with this back. When ordered separately, \$1 00.



Size of Shutter.	Will fit Lens.
1 $\frac{1}{2}$ inch opening.	1 $\frac{1}{2}$ to 1 $\frac{3}{4}$ inches.
1 $\frac{3}{4}$ " "	1 $\frac{3}{4}$ " 2 $\frac{1}{4}$ " "
2 " "	2 " 2 $\frac{3}{4}$ " "
2 $\frac{1}{2}$ " "	2 $\frac{1}{2}$ " 2 $\frac{3}{4}$ " "
2 $\frac{3}{4}$ " "	2 $\frac{3}{4}$ " 3 " "

LOW "KAZOO" SHUTTER, NO. 1.



1 $\frac{1}{2}$ inch opening, 4 inches long by 2 $\frac{1}{4}$ wide....	\$6 00
1 $\frac{3}{4}$ " " 4 $\frac{1}{2}$ " " 2 $\frac{3}{4}$ "	6 50
2 " " 4 $\frac{3}{4}$ " " 3 $\frac{1}{2}$ "	7 00
2 $\frac{1}{2}$ " " 5 $\frac{1}{2}$ " " 3 $\frac{3}{4}$ "	7 50
2 $\frac{3}{4}$ " " 6 " " 4 $\frac{1}{2}$ "	8 00

The Low "Kazoo" Shutter, No. 1, is a handsomely finished nickel-plated shutter.

Can be instantly changed from time to instantaneous exposures by simply moving the small lever to one side.

Gives the correct exposure, and requires no setting after either time or instantaneous movement, as it sets itself after every exposure without opening the wings.

This shutter is provided with an adjustable spring back that will fit any size of lens tube.

LOW "KAZOO" SHUTTER, NO. 2.

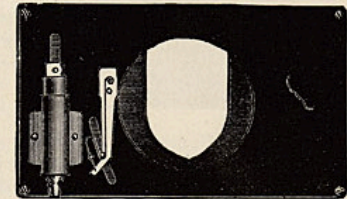
1 $\frac{1}{2}$ inch opening, 4 inches by 2 $\frac{1}{4}$ outside.....	\$6 00
1 $\frac{3}{4}$ " " 4 $\frac{1}{2}$ " " 2 $\frac{3}{4}$ "	6 50
2 " " 4 $\frac{3}{4}$ " " 3 $\frac{1}{2}$ "	7 00
2 $\frac{1}{2}$ " " 5 $\frac{1}{2}$ " " 3 $\frac{3}{4}$ "	7 50
2 $\frac{3}{4}$ " " 6 " " 4 $\frac{1}{2}$ "	8 00

This Low "Kazoo" No. 2 is designed to be placed on the inside of camera and attached to the front board.

It can be operated entirely from the outside of the camera and at any distance away.

To change from time to instantaneous exposures it is only necessary to push in or pull out a small brass pin, which passes through the front board and into the Shutter. It will balance open for any length of time while focusing.

The "Kazoo" gives the correct exposure, lighting the drapery or foreground most.



LOW VIEW SHUTTER, NO. 8.

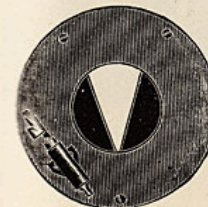
Price.....\$4 00 each

1 $\frac{1}{2}$ inch opening, 3 $\frac{1}{2}$ inches round.	2 inch opening, 4 $\frac{1}{2}$ inches round.
1 $\frac{3}{4}$ " " 4 $\frac{1}{4}$ " " 2 $\frac{1}{2}$ " " 5 " "	

The Low View Shutter No. 8 is designed to make only time exposures.

It is simply constructed and is a very practical shutter. It is nicely finished with Japan front, with brass trimmings and cherry finished back.

For work requiring only time exposure, it is a first-class shutter.



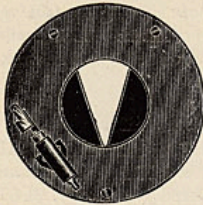
LOW VIEW SHUTTER, NO. 10.

Price\$6 00 each.

1½ inch opening, 3½ inches round. | 2 inch opening, 4½ inches round.
1½ " " " 4½ " " | 2½ " " " 6 " "

The Low Shutter No. 10 is the same as No. 8, with the addition of the instantaneous attachment.

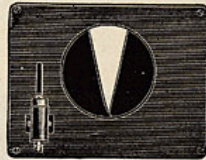
There are now many hundreds of them in use which give universal satisfaction and splendid results. They can be readily changed from time to instantaneous exposures by moving the brass lever to one side.



LOW SHUTTER, NO. 3.

Price\$4 00 each.

1½ inch opening.....by 2½ inches wide.....by 3½ inches long.
1½ " " " 3½ " " " 4½ " "
2 " " " 3½ " " " 4½ " "
2½ " " " 4½ " " " 5½ " "
3½ " " " 5½ " " " 7½ " "
3½ " " " 6½ " " " 7½ " "
4 " " " 7½ " " " 9 " "



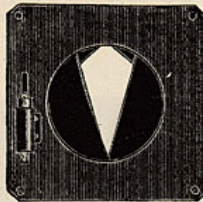
The Low Shutter No. 3 is designed to be attached to the front-board on the inside of camera.

It opens so as to light the drapery and foreground most. Will balance open while focusing.

It is very simple in its construction and will not easily get out of order.

LOW SHUTTER, NO. 5.

1½ inch opening, 3 inches square\$4 00
1½ " " 3½ " " " 4 00
2 " " 4 " " " 4 50
2½ " " 4½ " " " 4 50
3 " " 5½ " " " 5 00
3½ " " 6½ " " " 5 50
4 " " 7½ " " " 6 00
4½ " " 8½ " " " 6 50
5 " " 9 " " " 7 00



The Low Shutter No. 5 is a very simple, well made, and nicely finished shutter, having the special advantage of a very Large Opening in a Small Shutter.

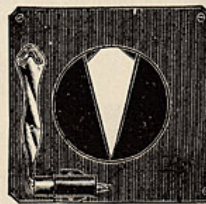
Works lightly and easily and gives the correct exposure.

For cameras having small front-boards the Low Shutter No. 5 is especially adapted.

The small sizes are admirably adapted for time view work.

LOW SHUTTER, NO. 6.

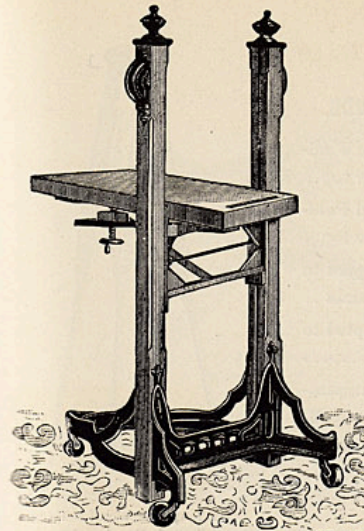
1½ inch opening, 3 inches square\$5 50
1½ " " 3½ " " " 5 50
2 " " 4 " " " 6 00
2½ " " 4½ " " " 6 00



The Low Shutter No. 6 is exactly the same as No. 5, with the addition of an instantaneous attachment, which can only be applied to the four smallest sizes.

To change from time to instantaneous exposures, it is only necessary to push in, or pull out a small brass pin, which passes through the front-board into the shutter.

THE SEMI-CENTENNIAL CAMERA STAND



is well and substantially made and does not get out of order. Camera may be adjusted with perfect ease, and by the use of coil springs and key may be made to counter-balance any weight of camera from 8 x 10 to 14 x 17 inclusive.

This stand is invaluable for children's pictures, as it lowers to within thirteen inches of the floor.

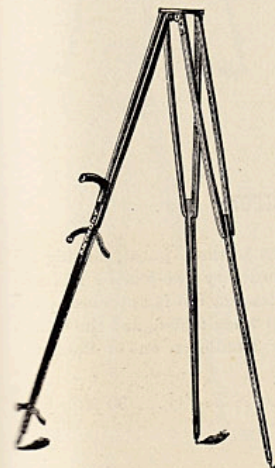
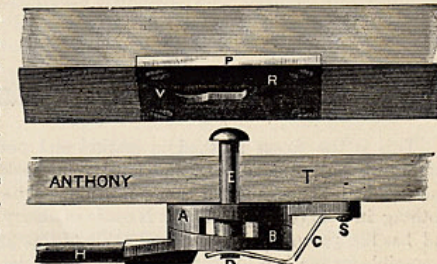
Price, complete..... \$25 00

CLAMP TRIPOD TOP.

We give a sectional view of our Clamp Tripod Top, which dispenses entirely with the tripod screw, and by means of which the camera is instantly clamped to the tripod. This attachment entirely does away with the annoying delays and difficulties of the old method, and is a most essential part of a complete photographic equipment. We have these Clamp Tripod Tops to fit our Triplex, Telescopic, Climax and Folding Tripods.

Price of top and patent clamp and plate for camera bed, \$1 40.

For complete tripod, fitted with above and plate, add 40 cents to the price of tripod.

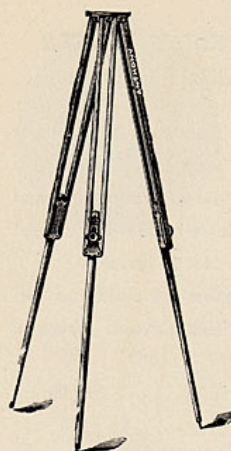


THE UMBRELLA TRIPOD

is, as shown by the cuts, an ingeniously arranged tripod which, when not in use, folds to resemble very closely an umbrella. When open it is firm and rigid. Size closed is only 2 inches in diameter.

Price..... \$4 00

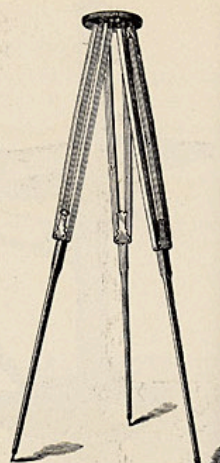




Anthony's Telescopic Folding
Tripod, Nos. 4 and 5.

JOINTED TRIPODS.

- No. 1, Anthony's Improved Folding Tripod, 6 in. circular top.. \$2 25
 No. 2, Anthony's Improved Folding Tripod, 8 in. circular top.. 2 25
 No. 4, Telescopic legs, adapted to Stereoscopic and 8 x 10 sizes .. 3 50
 No. 5, Telescopic legs, adapted to 11 x 14 size 3 75
 No. 6, Large Tripod with unjointed legs and 12-inch top, sufficiently strong for the heaviest view cameras..... 6 00

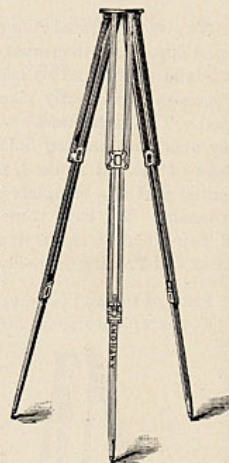


Anthony's Improved Folding
Tripod, Nos. 1 and 2.

ANTHONY'S PATENT TRIPLEX TRIPOD.

This is the finest finished in market and perfectly rigid, combining both the folding and telescopic, besides which it occupies little space, and for transportation can be packed with clothing in a large grip-sack. It is made of cherry throughout, and has the patent springs on under side of top, by which it is impossible for the legs to become unfastened accidentally. When the leg is fully extended, it is held automatically by a spring, saving necessity of using thumb-screw for clamping same.

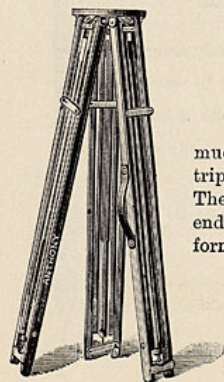
Price.....\$4 00



THE CLIMAX TRIPOD.

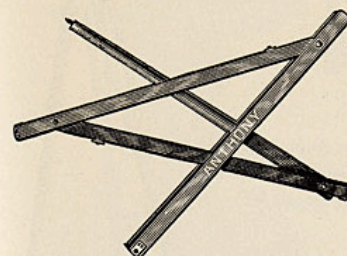
As shown by the cut, this tripod folds in three joints, making it much more convenient to carry than the ordinary two-jointed folding tripod. It resembles the Triplex tripod in length, but is not telescopic. The legs may be left permanently in the top when folded, and the other ends being fastened by a strap, a leather handle on one of the legs forms a convenient method of carrying it.

Price.....\$3 50



THE FAIRY TRIPOD.

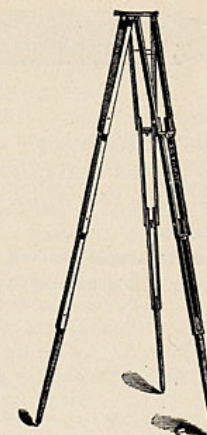
PATENTED.



Showing one leg of Fairy Tripod partly
folded.



Showing one leg of Fairy Tripod folded.



Showing Fairy Tripod set up ready for use.

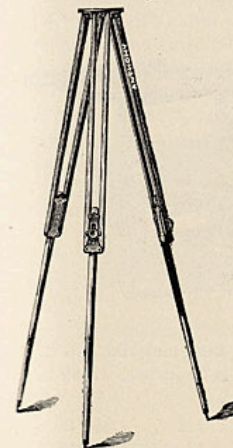
Our aim has long been to make all apparatus connected with outdoor photography as light and compact as is consistent with strength and durability. Until now the tripod has successfully resisted all efforts in that direction. But at last we can offer to our customers a tripod which is a marvel of lightness, compactness and rigidity, and which can be readily carried in an ordinary hand-bag. When folded it is only 16 inches long and weighs but 1 lb. 15 oz.

Price, each..... \$5 00
 Fine Sole-leather Carrying Case, with shoulder straps for legs of above tripod, each... 2 50

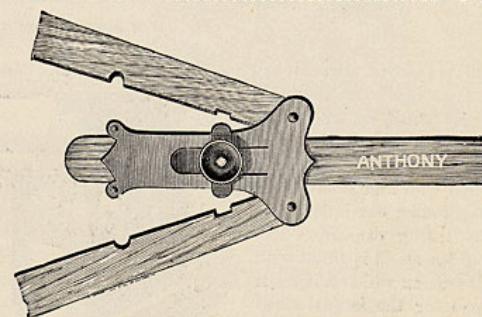
ANTHONY'S PATENT IMPROVED TELESCOPIC FOLDING TRIPOD.

This is the most rigid in market and combines both the folding and telescopic qualities in one, at moderate price. It is made of best quality ash and has the patent leg clamp.

No. 4..... \$3 50
 " 5, extra heavy..... 3 75



Showing Tripod set up ready for use.

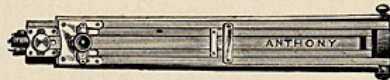


Showing Telescopic Folding Joint.



Showing one Leg of Tripod folded.

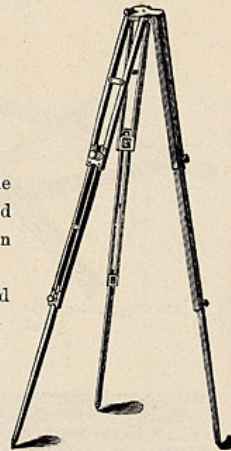
THE PHANTOM TRIPOD



Is the newest and best tripod of its kind to be found. The legs are firmly attached to the top by means of turn-screws, and are so set into it that they do not require to be detached when carrying the tripod.

The legs are telescopic—folding twice—and the whole tripod when folded occupies a space only $3\frac{1}{2} \times 3\frac{1}{2} \times 23\frac{1}{2}$ inches.

Price, \$5 00



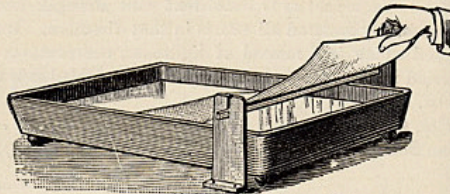
HOLLOW GLASS TUBES FOR SILVERING PAPER.

These are much stronger than solid rods.



One end flattened to prevent its turning.

15 in. long, $\frac{1}{4}$ in. diam.....each, 25c. | 19 in. long, $\frac{1}{4}$ in. diam.....each, 40c.
23 in. long, $\frac{1}{4}$ in. diam.....each, 50c.

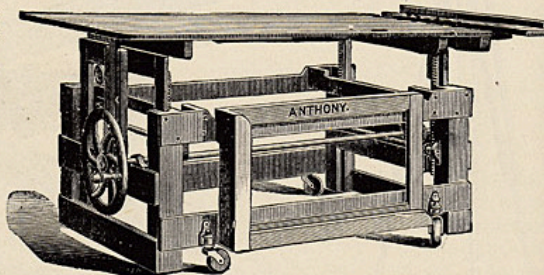


This cut shows the manner of adjusting it for use

ANTHONY'S GIANT CAMERA STAND

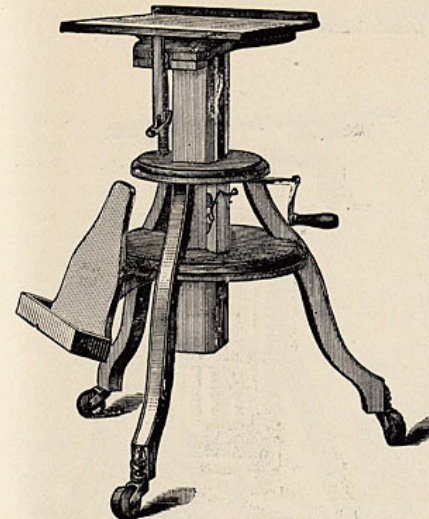
For large sized Cameras

Is, as its name implies, strong and thoroughly reliable. It is constructed on the principle of cog wheels working in a spiral screw thread, which insures ease and accuracy of manipulation combined with great lifting capacity. The top of the stand is fitted with an extension which adapts it to use for the largest sized box with a minimum of floor space consumed. Every part of this stand is made of the best material and it is guaranteed to do all that is claimed for it. Its minimum height is 28 inches, which may be increased to 42 $\frac{1}{2}$ inches and the top may be inclined forward.



Price..... \$32 00

THE MAGIC CAMERA STANDS.



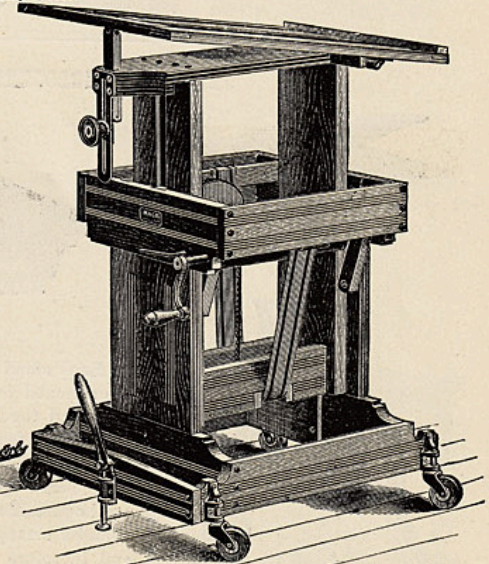
This cut represents the No. 1 Magic, patented May 5, 1885.

New principles, new shape; the lightest, the strongest, the most durable; beautifully finished, easy to work; no heavy weights, no set screws, no noise, no weak points; perfectly rigid, perfectly reliable, quickly adjusted.

Perfectly adapted to cameras of any size or weight. Made of ash-wood, finely finished, and showing natural grain of the wood in all its beauty.

A coil spring bears the most of the weight in raising and lowering, and self-acting stops hold the center frame and bind it firmly at any height desired by the operator, no set screw being required to make it rigid. It has also a new and superior device for tilting the top. Nos. 3 and 4 are substantially the same as shown by cut, except that the tilt of the top is held by two automatic supports instead of one. All the metal work is either nickel plated or ebonized.

No. 2, for cameras 11 x 14, each..... \$16 00 | No. 3, for cameras 14 x 17, each \$20 00
No. 4, for cameras, 17 x 20 to 20 x 24, each..... \$25 00



This cut represents the No. 2 Magic, patented July 29, 1884, and May 5, 1885.

SHEARS.

Locket Snips, per pair..... \$1 00 | Tinnerns' Shears, per pair..... \$1 50
Bankers' Shears, according to quality and length of blade, 75 cents to \$3 00.

THE GEM CITY CAMERA STAND

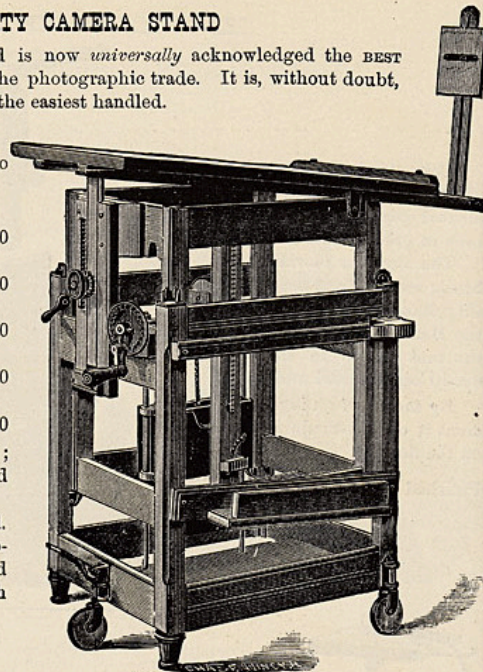
has stood the "test of time," and is now *universally* acknowledged the BEST CAMERA STAND ever introduced to the photographic trade. It is, without doubt, the most rigid and at the same time the easiest handled.

The best and cheapest for 8 x 10 to 25 x 30 cameras.

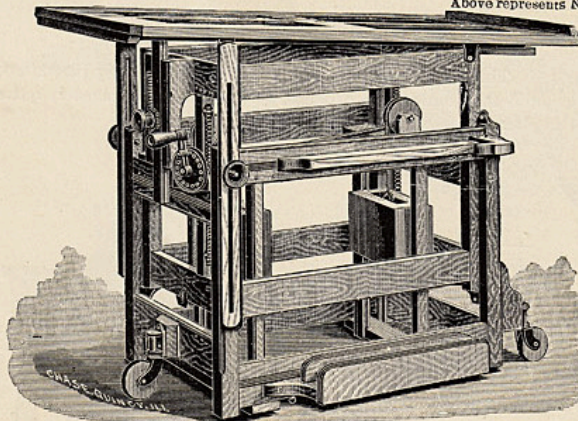
- No. 1, for 4-4 to 10 x 12 cameras, 30-inch bed.....\$20 00
 " 2, for 11 x 14 and 14 x 17 cameras, 40-inch bed... 20 00
 " 3, for 17 x 20 and 18 x 22 cameras, 48-inch bed... 25 00
 " 4, for 20 x 24 cameras, 60-inch bed..... 30 00
 " 5, for 25 x 30 cameras, made to order only..... 35 00

Nos. 1 and 2 have one weight; Nos. 3, 4 and 5, have two weights and base to correspond to size of bed.

They have been greatly improved. No set screw is required, when properly balanced act automatically, and there is no danger of binding with even the heaviest camera.



Above represents Nos. 1 and 2.



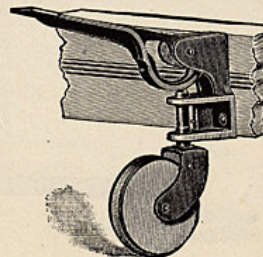
Above represents Nos. 3, 4 and 5.

No strength is required to elevate the camera, it being counterbalanced by weights sliding up and down on grooved guides; thus the camera is as rigid at its greatest height as at the lowest, the center of gravity being always the same, which cannot be said of many stands in the market.

"GEM CITY" LEVER CASTER

For attachment to camera stand to insure rigidity when once in position, required.

Price, each..... \$1 00



CELLULOID DEVELOPING TRAYS.

These trays are of exceedingly light material and very tough and strong. They may be dropped or thrown upon the floor without injury, and their rounded corners render them very easy to work with.

Another great advantage which they possess is that they are made in three distinct colors, and may thus be readily distinguished in the dark room.

They are made in four sizes only, as follows:

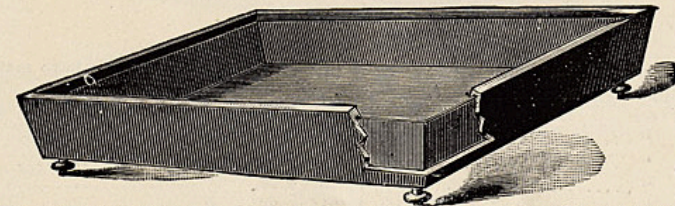
For Plates.	Price.	For Plates.	Price.
4 x 5.....	\$0 50	6½ x 8½.....	\$0 85
5 x 8.....	72	8 x 10.....	1 15

JAPANNED IRON DEVELOPING TRAYS.



For 4 x 5 plates..	\$0 20	For 11 x 14 plates..	\$0 60
" 5 x 8 " ..	25	" 14 x 17 " ..	1 00
" 6½ x 8½ " ..	30	" 18 x 22 " ..	2 00
" 8 x 10 " ..	40	" 20 x 24 " ..	2 50
" 10 x 12 " ..	50	" 25 x 30 " ..	4 50

THE COMMON SENSE TRAY.



For washing, silvering, etc. Made of kiln-dried lumber, with acid-proof paper lining, bound corners, canvassed joints, etc. We do not guarantee these trays for the handling of glass plates.

15 x 19 (½ sheet size), each.....	\$3 50	19 x 24 (whole sheet size), each.....	\$5 00
21 x 26.....	\$6 00		

EBONITE TRAY.

It is easily kept clean, and has a polished surface of high finish. Two slightly raised ridges on the bottom, prevent the plate from adhering to the tray.

No. 1, for 3¼ x 4¼ plate, each.....	\$0 24
" 2, ½ and 4 x 5 " ..	28
" 4, 5 x 7 and 5 x 8 " ..	56
" 5, 6½ x 8½ " ..	72
" 6, 8 x 10 " ..	1 08

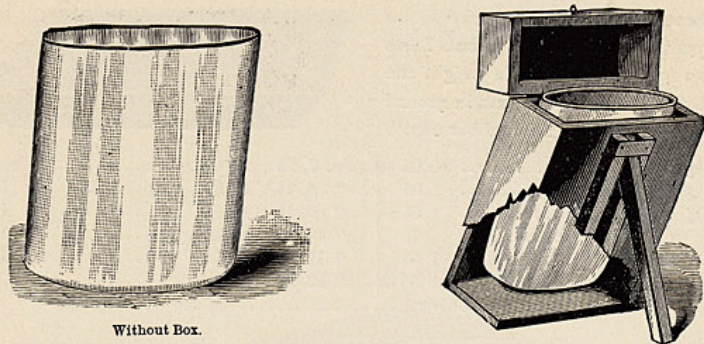


PORCELAIN TRAYS.

(The dimensions given are for inside the bottom of the tray.)

	Shallow.	Deep.		Shallow.	Deep.
5 x 7	\$0 44	\$0 62	11 x 14	\$2 16	\$2 64
5½ x 8½	60	75	14 x 17	5 10	6 60
7 x 9	66	82	15 x 19	6 28	8 00
8 x 10	82	1 00	19 x 23	11 60	14 50
10 x 12	1 32	1 66	19 x 24	12 88	16 00

LEWIS'S PATENT GLASS POT BATHS.



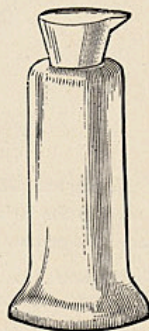
Without Box.

6 x 10 Lewis's Patent Glass Pot Bath, without box.....	\$2 50
6 x 10 " " " " with box	3 50

EFFECTIVE COLLODION BOTTLE.

Another marked improvement in the plain collodion vial will be seen in the illustration. Hitherto these articles have not been provided with a good pouring lip, and have had no means for preventing the flowing of any possible sediment outward with the collodion or varnish. The curvature in the base retards the passage of that sediment, while the lip is so constructed that the liquid returns to the bottle, and does not drip outwardly. The lip is also so shallow that the neck can be effectually corked. The neck, too, is widened, to more readily admit the return of the solution to the bottle. The size now made holds eight ounces.

They cost 15 cents each.

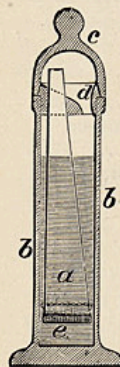


CROSS'S FILTERING AND POURING BOTTLE.

This vial is thought to supply a real want. By using it the photographer, in a measure, becomes master of the situation. Oftentimes collodion requires modification—it may be too thick or too thin, too old or too new, or the photographer may be desirous of combining two or more varieties, to meet a present requirement, and in all similar exigencies he has nothing to do but to fill the vial and go to work, for the process of filtration is constantly progressing. It is equally useful for varnishes.

The bottle is of the ordinary form, but of somewhat larger size; inside of this a graduated glass tube is inserted, from the top of which the collodion or varnish flows, and at the base one or more thicknesses of cotton flannel serve for a filter, that will last for months. The funnel-shaped orifice (d) receives the excess from the plate, and renders waste unnecessary. The cap covers both flowing and receiving orifices, and is easily removed. Many persons have expressed their approbation of its convenience.

Price, \$3 00.



PORCELAIN EVAPORATING DISHES.

These are the genuine imported; cheaper goods are in the market, but are not so reliable.

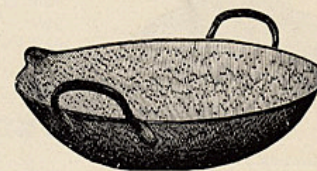
No.	Diameter.	Containing	Price.	No.	Diameter.	Containing	Price.
00	16 inches	3 gallons	\$4 25	3	10 inches	2 quarts	\$1 00
0	14 "	2 "	3 00	4	9 "	3 pints	90
1	12 "	1 "	1 80	5	8 "	2 "	75
2	11 "	3 quarts	1 55	6	7 "	24 ounces	65

AGATE WARE PANS.

		14 x 17 Flat	\$5 00
		15 x 19 "	7 00
		19 x 24 "	12 00
		5 x 7 Deep	1 00
		7 x 9 "	1 25
		8 x 10 "	1 60
5 x 7 Flat	\$0 80	10 x 12 "	2 25
7 x 9 "	1 00	11 x 14 "	3 37
8 x 10 "	1 25	14 x 17 "	6 00
10 x 12 "	2 00	15 x 19 "	8 00
11 x 14 "	3 00	19 x 24 "	15 00

AGATE EVAPORATING DISHES.

Pint	each	\$0 50
Quart	"	75
1/2 gallon	"	1 00
1 "	"	1 65
2 "	"	3 00
3 "	"	4 00
4 "	"	5 75
5 "	"	8 50



ANTHONY'S GLASS BATHS IN BOXES.

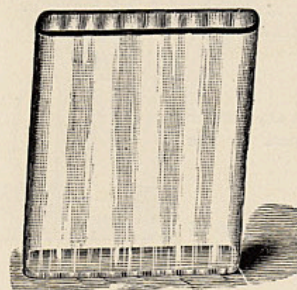


Fig. 1.

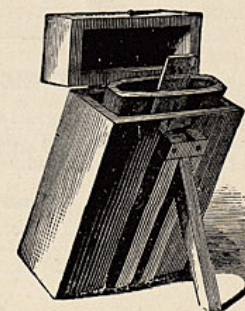


Fig. 2.

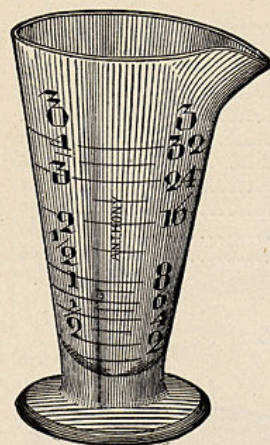
WITHOUT BOX, FIG. 1.

5 x 7 size, for plate 4 1/4 x 5 1/2	\$0 95	12 x 16 size, for plate 11 x 14	\$5 25
7 x 10 " " 6 1/2 x 8 1/2	1 30	15 x 20 " " 14 x 17	16 00
9 x 11 " " 8 x 10	2 00	18 x 22 " " 17 x 20	30 00
11 x 14 " " 10 x 12	3 50		

WITH BOX, FIG. 2.

5 x 7 size, for plate 4 1/4 x 5 1/2 in	\$2 50	12 x 16 size, for plate 11 x 14 in	\$8 75
7 x 10 " " 6 1/2 x 8 1/2 "	3 25	15 x 20 " " 14 x 17 "	18 75
9 x 11 " " 8 x 10 "	4 50	18 x 22 " " 17 x 20 "	40 00
11 x 14 " " 10 x 12 "	7 00		

ANTHONY'S MOLDED GRADUATES.



We take pleasure in offering our new Molded Graduates. Those ordinarily sold are of blown glass, and being registered according to a given rule, the least variation in form or thickness of the graduate renders the marking inaccurate. Made in the following sizes :

WARRANTED ACCURATE.	
Minim, each.....	\$0 20
2 dram, ".....	25
$\frac{1}{2}$ ounce ".....	20
1 " ".....	20
2 " ".....	20
3 " ".....	25
4 " ".....	30
6 " ".....	35
8 " ".....	45
12 " ".....	60
16 " ".....	75
24 " ".....	1 00
32 " ".....	1 25

GLASS MORTARS AND PESTLES.

2 $\frac{1}{2}$ inches.....	\$0 15	4 inches.....	\$0 35
3 ".....	20	5 ".....	55
3 $\frac{1}{2}$ ".....	25	6 ".....	88

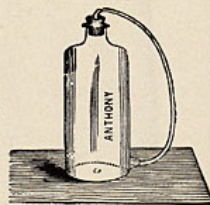
PORCELAIN MORTARS AND PESTLES.

8 inches.....	\$2 25	4 inches.....	\$0 70
7 ".....	1 75	3 ".....	50
5 $\frac{1}{2}$ ".....	1 25	2 $\frac{1}{2}$ ".....	45
5 ".....	1 00	2 ".....	40

ANTHONY'S DEVELOPING BOTTLE.

This developing bottle is a great convenience to the amateur or professional photographer, and will soon save its cost in the quantity of developer economized.

PRICES.	
Quart.....	\$0 75



HYDROMETERS.

Single degree scale, packed in wooden cases, 50 cents each.

SQUEEGEES. (Velvet Rubber.)

6-inch.....	25 cents.	12-inch.....	50 cents.
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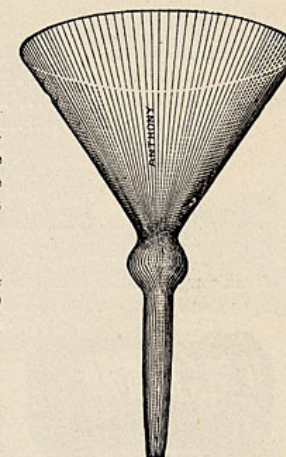
BRACKET CASTERS.

Large, Iron, for backgrounds, per set of four, 75 cents.

COLLODION FILTERS.

12 ounce.....	\$2 00
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ANTHONY'S COMBINED BULB FUNNEL AND FILTER.

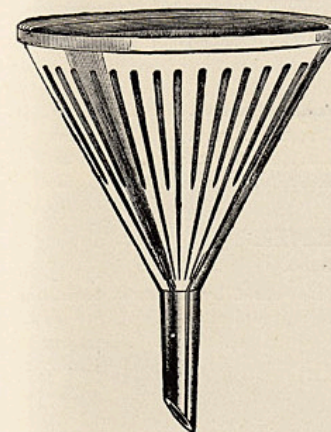


In this combination of funnel and filter, the bulb retains the filtering cotton in such a manner as to obviate the difficulty experienced in the ordinary funnel from the cotton being compressed too tightly. A glance at the cut will readily explain its advantages.

The sizes and prices are as follows :

Pints, each.....	\$0 34
Quarts, each.....	40
$\frac{1}{2}$ gallon, each.....	85

THE PATENT FLUTED FUNNEL.



This is the latest and best glass funnel ever made. They are very strong ; are made in molds ; have solid glass ribs on the inside, running vertically as shown in cut, thus forming passages through which the solution descends freely after passing through the paper, and accomplishing the filtration in a fraction of the time heretofore required. Another advantage of this funnel is, the outside of the neck is fluted, and the lower end beveled, so as to prevent choking up in the neck of the bottle, and overflowing.

$\frac{1}{2}$ pint.....	Each \$0 12
$\frac{1}{4}$ ".....	15
1 ".....	20
1 quart.....	30
2 ".....	45

GLASS FUNNELS.

$\frac{1}{2}$ pint.....	\$0 12	2 quarts.....	\$0 25
1 pint.....	15	1 gallon.....	50
1 quart.....	20	2 gallons.....	80

HARD RUBBER FUNNELS.

No. 0. $\frac{1}{2}$ pint.....	40 cents.	No. 2. 1 pint.....	55 cents.
" 1. $\frac{1}{4}$ ".....	50 "	" 3. 1 quart.....	60 "

PAPIER MACHE FUNNELS

Are unapproached for strength, lightness and general adaptability to use in the dark room. They will not break as glass so often does, are easily kept clean, and once put in use will always be looked upon as a necessity. They are both plain and ribbed.

PRICES.

1 pint.....	15 cents.	1½ quart.....	23 cents
1½ ".....	17 "	2 ".....	25 "
1 quart.....	20 "	3 ".....	30 "
4 quart.....	40 cents.		

THE WATKINS EXPOSURE METER.

A New and Reliable Meter for Correctly Timing Exposures.

This compact little instrument works splendidly for intense, difficult subjects and all daylight Camera exposures, and is a thorough practical success. It is a combination of a bromide of silver actinometer (most simple in use), a chain pendulum for timing the exposure, and a set of calculating rings, each carrying a pointer, which, when set to the correct value for each factor, cause a fifth pointer to indicate the correct exposure in seconds or fractions of a second. It is beautifully finished in brass, and measures only 2½ inches long and 1½ inches in diameter. It is not complicated in use, and the average time occupied in testing the light and adjustment of calculator is only 30 seconds.

Each instrument is sent out complete with supply of sensitive paper for 120 exposures, full instructions for use, and an important paper on "The Elements of Photographic Exposure."

PRICE.

With one extra Exposure Ribbon and Book of Comparative Tables.....	\$5 00
With "F" Ring.....	6 50
Extra Exposure Ribbons, each.....	25
Watkins' Exposure Note Books.....	50

THE BALLARD ACTINOMETER.

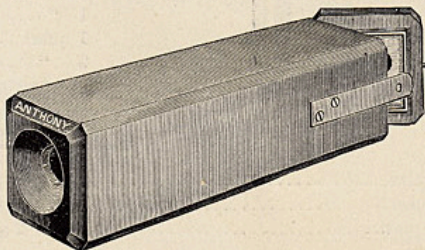
For Correctly Timing Exposures.

Is extremely simple and easy of manipulation, may be worked by the most unskillful and gives the exact time required for Exposure of varying subjects, differing powers of light, stops of any size and any of the standard American makes of dry plates. It is constructed on such a principle that the actinic rays which affect the plate are the only ones acting upon the Actinometer, and by comparison with a very complete set of tables which is furnished with each instrument, the necessary time under any conditions of lighting or subject, may be read in seconds or fractions of a second at a glance.

Judgment as to time required, which is always a matter of doubt, is entirely dispensed with, and the actual, not probable time, ascertained to a certainty.

It is reliable, simple and sure and a great help to the photographer, saving time, labor and loss of plates, besides insuring a correct Exposure and thus rendering certain the production of a good negative where it has heretofore been a matter of long calculation and uncertainty in the end.

Price, each..... \$4 00



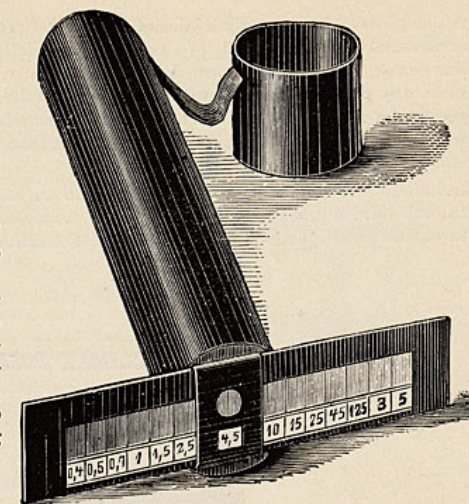
PHOTOMETER FOR TIMING EXPOSURE.

This instrument consists of a black, cloth covered tube, in one end of which is an aperture, into which slides a graduated scale, through which the light is allowed to pass *via* the tube, which is placed on the ground glass in the same way that a focusing glass would be used.

Corresponding to each graduation in the scale is marked a number, which gives the relative time of exposure required for pictures of differing intensity of lighting.

It will prove of great value to those who are constantly overtiming or undertiming their plates.

Price..... \$1 00

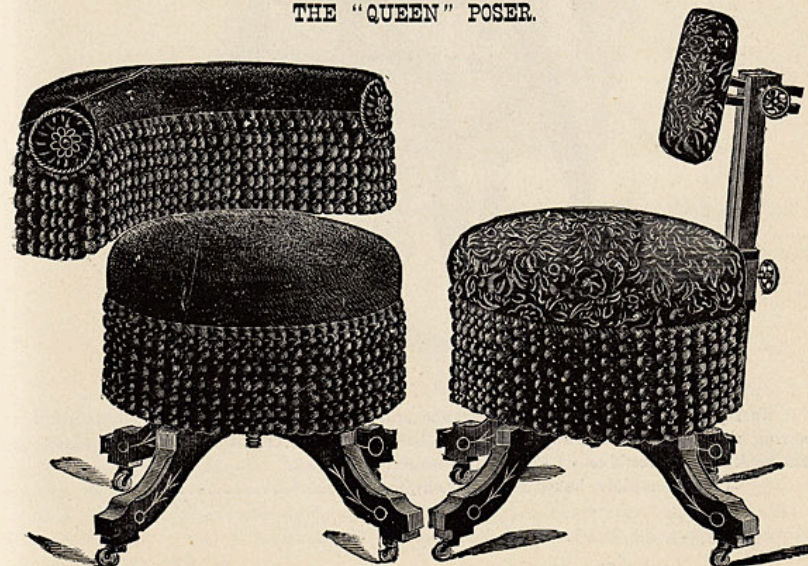


THE ACTINOGRAPH

Is a simple and thoroughly practical instrument for determining the time required for exposure of a negative under varying conditions of season, light and time of day. The several factors being known, it is only necessary to move a set of indicators till they correspond to the different conditions, as marked on the instrument, when the time required may be read at a glance.

Price..... \$3 00

THE "QUEEN" POSER.



This cut represents the Plush or Velvetten Cover and Large Adjustable Arm for general posing.

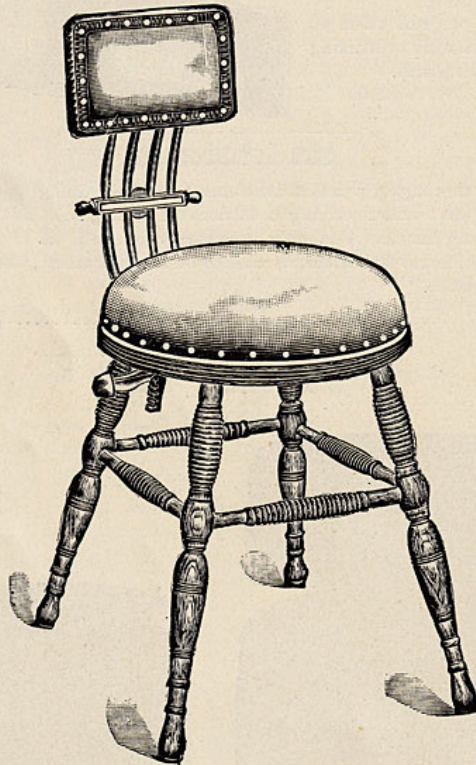
This cut represents the "Raw Silk" Cover and Adjustable Back Rest.

This is one of the latest and a very useful chair for the operating room, as it comprises

in one piece of furniture a very desirable chair for posing for bust pictures; together with an ornamental arm rest, or back, of a new and tasteful design, for figure posing of subjects of any size or age. The back rest can be moved instantly, up or down, forward or backward, or given any desired angle, at will. The seat revolves on an elevating screw, enabling the positionist to get any desired height of seat, as well as to turn his subjects at will. The semicircular back is new and rich in design, and the whole constitutes just what is essential in every well-regulated operating room.

In imitation raw silk, complete, each..... \$12 50
 In drab velveteen, complete, each..... 14 50
 In mohair plush, plain or embossed, complete, each..... 16 50

CLIMAX POSER.



Is light, neat and tasty in appearance and very strong. It is provided with a four-spring nickel-plated back support, which has ratchet movement to regulate position, and the back support itself may be raised or lowered at will.

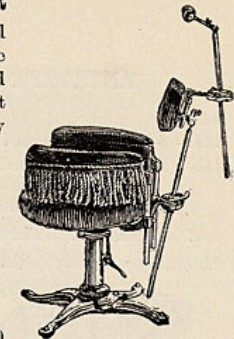
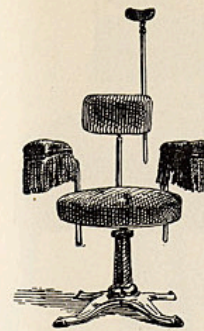
Price, complete, boxed ready for shipment.....\$8 25

WHITE'S "NEW STYLE" CHAIR

May be raised or lowered to suit tall or short sitters. Is provided with the celebrated sectional ball and slide rod joint; and arms, head rest and back rest are capable of movement in a great variety of directions.

PRICE.

With automatic floor adjustment, base supporting column, pedal screw footing, sectional ball slide rod, back adjustment, swivel back pad, and ball socket adjustable head rest, upholstered in corduroy..... \$27 00



THE DOW POSING CHAIR



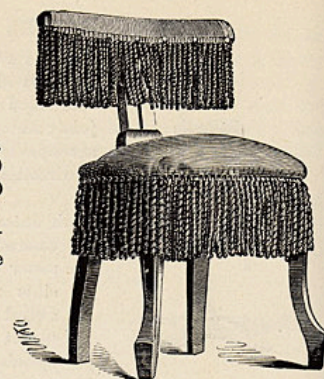
Is the Finest Chair in the Market.

The head rest, as well as the back support, is so arranged that, by simply lifting the supporting rod, the clamp at the bottom is loosened so that they may be adjusted to any angle or position. Both run either to the right or left on lateral supports, and the arm may be shifted from right to left at will. The rests are fitted with an universal motion secured by thumb screw, and the mountings are finished in black Japan and nickel plate. It is a handsome article of furniture and unsurpassed for wear and quick adjustment to any pose. Price, \$35 00.

ANTHONY'S POSITION CHAIR.

No.		Price.
144.	6 inch, terry.....	\$7 50
145.	6 " upholstered	12 00

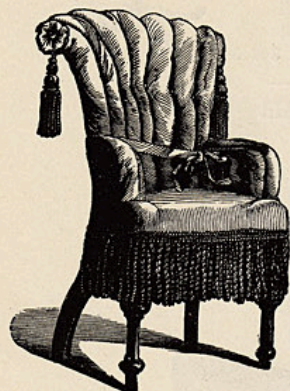
These chairs are substantially made, and give general satisfaction. They will be found to compare favorably with any, either as to price or quality.



THE BABY CHAIR.

We now make an extra cushion for the Child's Chair. This, placed in a semicircle under the knees, insures the favorite *pose* of babyhood.

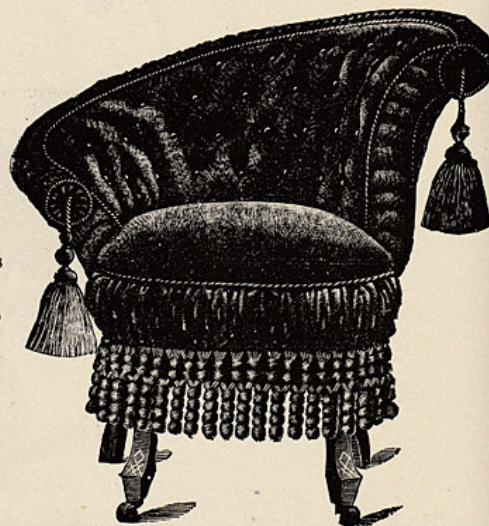
Velveteen, price.....	\$18 00
Plush, "	22 00



THE CENTENNIAL CHAIR.

Greatly facilitates the business of posing.

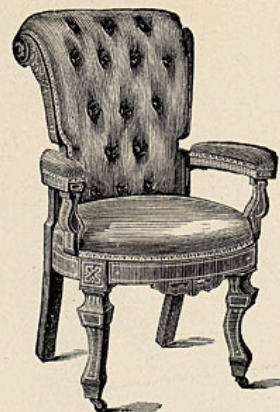
Drab velveteen, 6-inch fringe, \$23 50



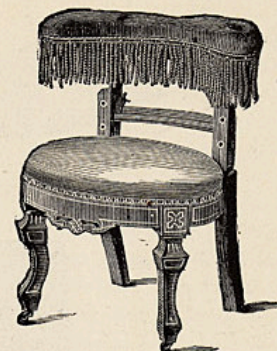
PARTS OF SUCCESS HEAD REST.

Base.....	\$1 60
Short Pillar	1 50
Tall Pillar	1 75
Rod.....	.60 and 70
Ear Piece.....	1 20
Cross Head.....	40

THE BOWDISH CHAIR.



Bowdish Chair.



The Bowdish Chair, with Revolving Circular Arm.



The Bowdish Chair, with Sofa Attachment.

Combines the advantages and uses of all the various chairs in market, comprising:

1st. A chair with high back, with or without arms.

2d. A chair with a revolving circular arm. This is an advantage over the ordinary chair with circular arm, which has only the vertical movement.

3d. A lounge attachment, which is invaluable for infants and children.

No. 1, drab velvet.....	\$30 00	With sofa	\$37 50
" 5, drab plush*.....	45 00	"	53 00
Centennial, with sofa, drab plush*.....			57 50

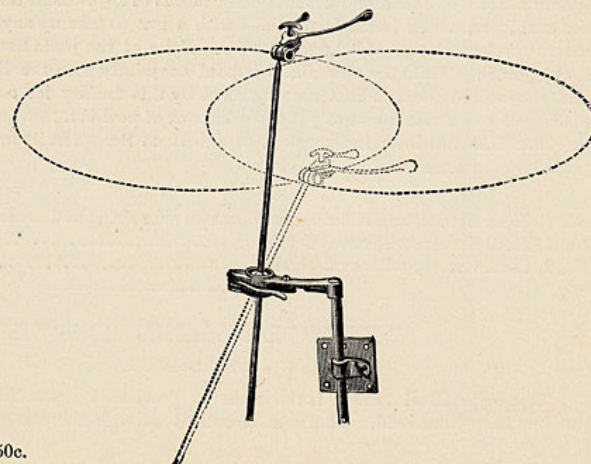
They are strongly made, of excellent material, are well finished and durable in every respect.

* After our present stock of drab plush is exhausted, we shall use raw silk coverings for the No. 5 and Centennial models.

WHITE'S PHOTOGRAPHIC CHAIR REST.

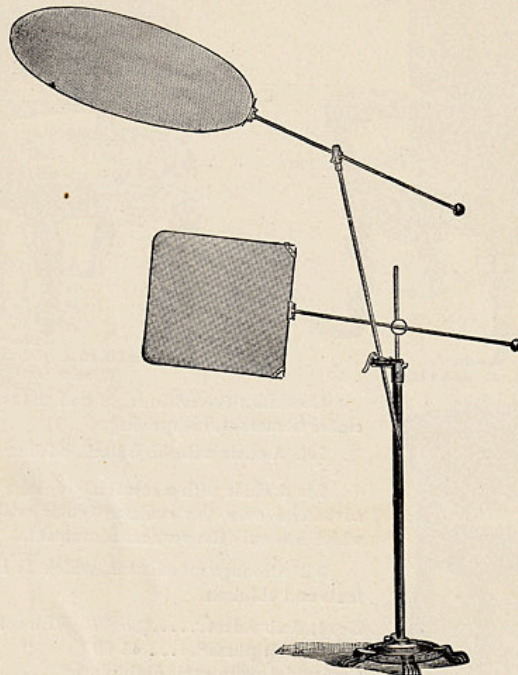
This appliance is for attachment to any Studio Chair by means of the plate, into which the supporting rod slides, and as shown by cut, has the ear-clips and ball and socket adjustment, and as shown by dotted lines, may be applied in almost any direction or angle. It will be found to be a very valuable accessory.

Price, \$8.00.
Extra Brackets, each, 50c.



WHITE'S PERFECTION HEAD SCREEN AND SIDE SHADE.

STYLE No. 1.



No. 1 Perfection Head Screen and Square Side Shade.

The base standard has the double or duplex joint, providing a separate rod for the new compound clamping and swiveling joint.

In this style the Head Screen is held by a projecting joint on the base support, having the sectional ball and slide rod movement, which extends its range more than two-fold in the area it will cover, giving adjustment from a height of 8 feet to the floor, to any position within a circle of 8 feet, and without other means of adjustment than is instantly afforded by the cam lever, which latter is provided with a nut to take up any wear occasioned by use, as are all the joints provided against wear. None of the parts have back-lash or loose and shaky joints. While the side shade is used conjointly with the Head Screen, it is evident that the desired effect is best accomplished by this facility for separate adjustment, as the placing of one shade does not put the other out of position.

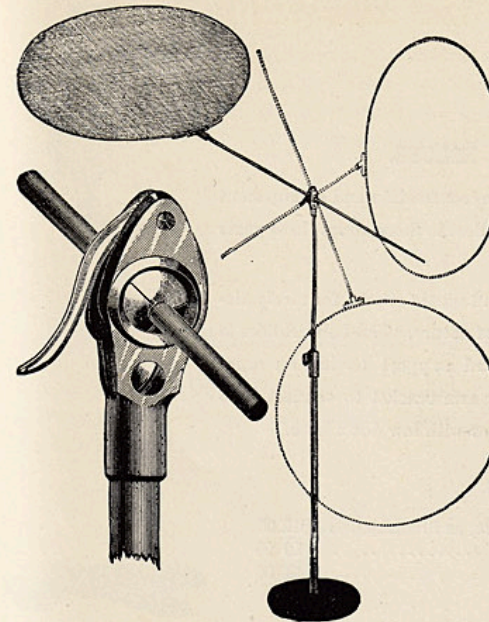
The Side Shade is independent of the Head Screen in its movements, while it is supported on the same base.

	Prices, Securely boxed.
No. 1, Head Screen, as illustrated, with square side shade and ornamental foot base.	\$10 00
No. 1, Head Screen, without side shade.....	7 00
No. 1, Head Screen, with oval shade.....	9 50

WHITE'S PHOTOGRAPHIC HEAD SCREEN.

STYLE No. 2.

This style Head Screen is the same as previously advertised, and of which a large number have been sold. It has a circular base with the elevating rod telescoping into



the base standard without the offset or projecting sectional ball joint. The adjustment of the elevating rod is made by a saddle and thumb-screw at the top of the base standard. In all other respects it is like No. 1, having the same slide rod ball and socket joint with binding lever, as shown in detail in this cut. Side shades can be used with this style of Head Screen, attached by the improved clamping joint to the elevating rod.

Price.

No. 2, Head screen, with oval side shade, including box..	\$8 50
Without shade.....	6 00
New base, extra.....	25

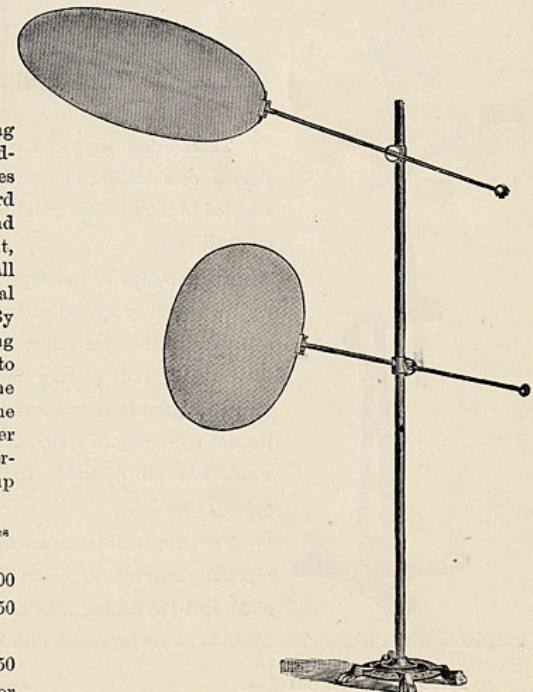
WHITE'S PHOTOGRAPHIC HEAD SCREEN.

STYLE No. 3.

This is a new pattern, having ornamental foot base. The standard is in one piece, 1½ inches diameter, 6 feet high, of hard wood. It has the new compound clamping and swiveling joint, which affords adjustment to all positions in a secure and practical manner, by one fastening. By slightly releasing the clamping joint, the shade rod is free to slide or be turned to place the shade at any angle around the supporting standard. A greater release of the clamping joint permits adjustment of the screens up or down on the standard.

	Prices
No. 3, Head Screen, as illustrated, with oval side shade	\$7 00
If with square side shade...	7 50
No. 3, Head Screen, without side shade.....	4 50

In ordering side shades for this style, specify that they are for No. 3 pattern.



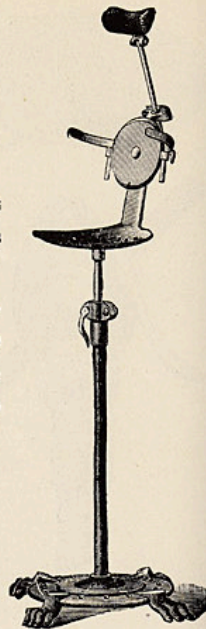
WHITE'S BABY HOLDER.

This has all needed adjustments for contraction and enlargement to accommodate infants, from the smallest to those about three years of age.

It may be successfully employed in scenic effects, for nicely disposing infant among representations of nature. The Baby Holder is furnished with a telescoping standard support having an ornamental base; or, if preferred, with an arm bracket to connect it to the arm of a chair or other support; or with low down base.

PRICES.

With telescoping standard support, as illustrated . . .	\$12.00
With arm bracket support	10 00
Low down base, extra	1 00



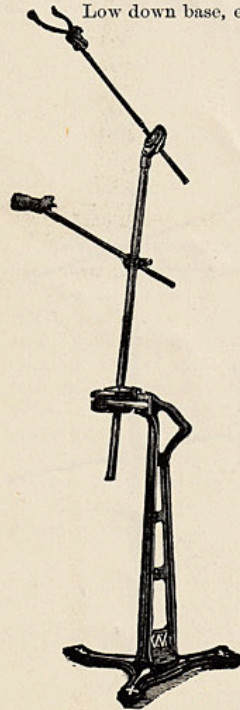
WHITE'S POSING SUPPORT NO. 1.

This Posing Support has the applied principle of the improved combination slide-rod, ball and socket joints. It is adapted to the smallest or tallest person, and for all adjustments or positions.

The ear-clips of the support have swiveling adjustment as well as lateral or spread movement combined at one fastening, affording facility for either horizontal or vertical positions of the carrying rod, placing the parts to conform to the pose without regard to instrument itself, or the liability of portions thereof appearing in view. A detachable back rest is provided which has all desirable facilities of adjustment, easily and quickly handled.

The adjustable joints are formed in the most perfect manner, especially adapted for giving accuracy and uniformity of movement, and the sliding rods are of steel of accurate gauge, and are plated with nickel. The stand is nicely japanned with blue and gold line ornamentation

Price, complete, boxed \$20 00



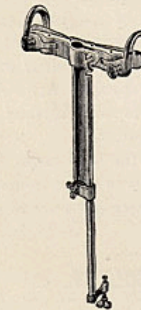
WHITE'S POSING SUPPORT NO. 2.

This cut shows another form of the Posing Support of somewhat lighter construction, and lacking the ball and socket joint at top of base, but which is instead provided with telescopic movement and handle for convenience in moving about the studio.

Price, boxed \$14 00

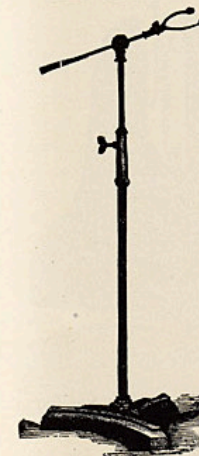
WHITE'S PORTABLE HEAD REST CARRIER

Is intended to be applied to any ordinary chair, and when so fixed by means of thumb-screws, affords a perfect holder for the head rest described below.



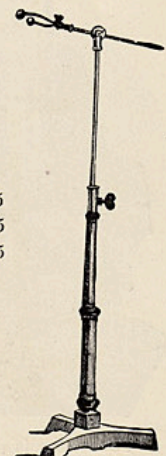
Price \$4 00

THE CENTENNIAL HEAD REST.



Plain and neat, with
no chance for dust.
The prices are :
Tall \$2 50
Short 2 25

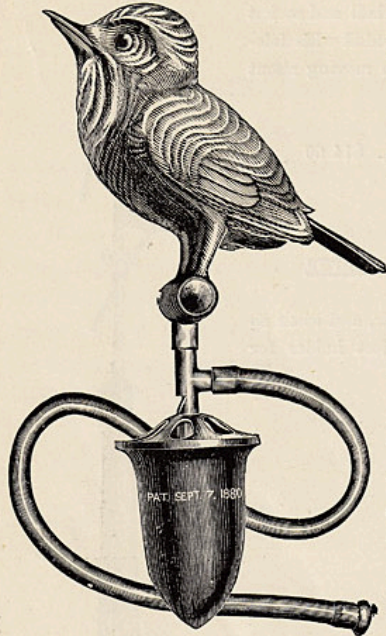
SUCCESS HEAD REST.



No. 61, extra finish,
Tall \$3 25
Short 3 15
With Back Support, 75
cents extra.

THE RIGID HEAD REST.

As its name implies, this rest is believed to possess, in an eminent degree, the quality of being much more rigid and, consequently, much more practical than any, including that so manifestly copied from Mr. Harrison's patterns. Its movements, also, are unusually diversified, and its mechanism exceedingly simple. The price is, nickel-plated, \$14 00.



THE AMERICAN SONGSTER.

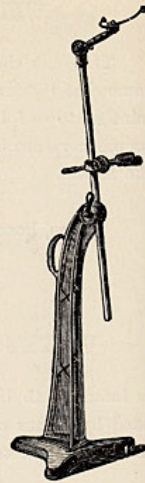
A decided novelty. One of the best Baby Charmers ever offered to the trade. Made of metal, nickel-plated.

The songsters are painted in a variety of bright colors in almost perfect imitation of life.

They sing as clear and liquid as the best living song birds. Are substantially and handsomely made and finished, and are not liable to get out of order.

While the bird sings, it moves its mouth (or bill) and tail in exact imitation of a living bird.

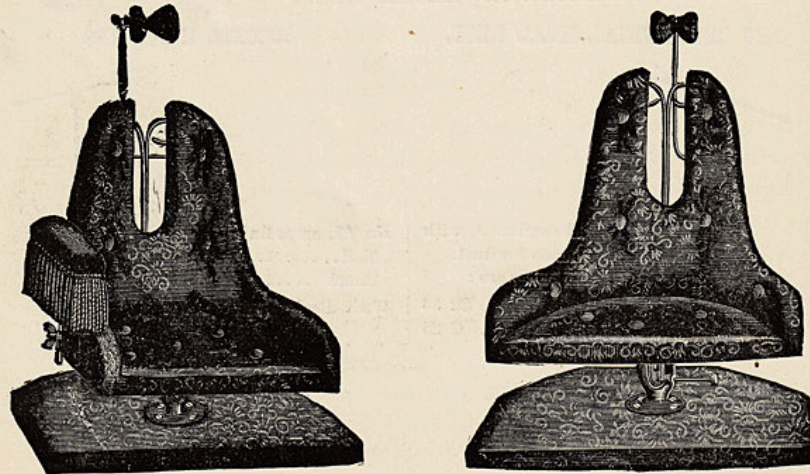
Each songster packed in a neat box.
Price..... 50 cents



The Rigid.

BALDWIN'S BABY HOLDER.

Not a Baby Chair, but a Baby Holder, that can be placed in any chair, on a table, etc., etc.



The holder is arranged with flat base—no legs. A tilting arrangement, under the seat,

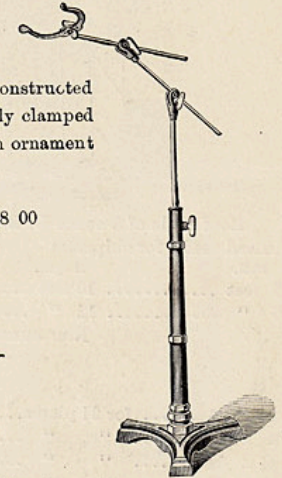
allows the adjustment of the seat to any angle desired. In the slot in the back is a spring clamp, in which the operator may force a portion of the child's dress or clothing, thereby holding the baby firmly in position without further assistance. Arms can be adjusted to either or both sides by an adjustable clamp.

Without arms, in plain or figured terry cover, japanned trimmings, each..... \$8 50
 " in drab velveteen cover, nickel-plated trimmings, each..... 10 00
 Arms, with attachments, either style, each 1 00

THE CLIMAX HEAD REST.

The newest and best head rest in the market. It is constructed with the universal movement, and is capable of being instantly clamped in any position required. It is handsomely nicked and an ornament to any gallery.

Price..... \$8 00



NEW FELT BACKGROUNDS.

FOR VIGNETTES.

The advantage of "felts" for vignettes is that they absorb rather than reflect light, as is the case with painted backgrounds, thus producing softer effects in the picture. We have them in two shades: No. E, drab; No. CC, light pink.

4 x 6 feet..... \$2 50 | 5 x 6 feet..... \$3 00 | 6 x 8 feet..... \$4 00

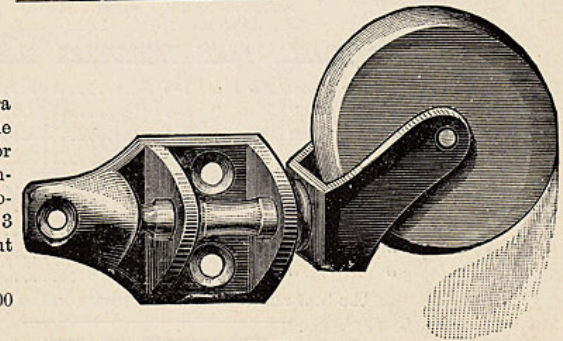
The E is for general work, and the pink is splendid for children. Send for samples.

THE MAGIC CASTERS.

PATENT APPLIED FOR.

For backgrounds, camera stands, screens, etc., etc. The best caster ever introduced for studio purposes. It was invented specially for photographic use. Wood wheel, 3 inches; does not drop out when raised off the floor.

Price, per set of four... \$1 00



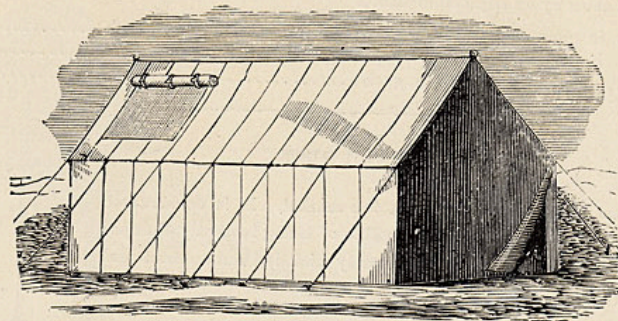
MAGIC BACKGROUND BRACKET.

Consists of a hardwood bracket with arms extending on both sides, nicely finished, and provided with groove and screw-holes, ready for immediate attachment to any background. It is neat and durable, and is fitted with the Magic Casters, which do not fall out when lifted from the floor.

Price, per pair \$2 00

THE PHOTOGRAPHER'S TENT.

Persons ordering tents C. O. D. will please send one-half the money in advance. Made of any size to order, and furnished in a few days.



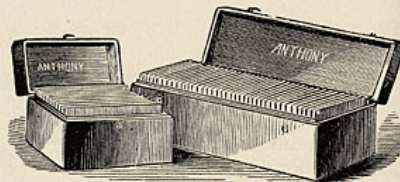
Roof made of 8-ounce U. S. A. Standard duck, and ends and side walls of 8-ounce twill. Priced ready for shipment.

Wall.	Height.	Size.	Regular.	Mildew-proof.
5 feet	10 feet	12 x 21	\$45 00	\$50 00
5 "	12 "	16 x 21	50 00	60 00

Nine-ounce brown duck dark room, \$15 00 extra.

NEGATIVE BOXES.

3½ x 4½	for 24 plates	\$0 75
4 x 5	"	80
4½ x 5½	"	90
4½ x 6½	"	90
5 x 7	"	1 00
5 x 8	"	1 00
6½ x 8½	"	1 10
8 x 10	"	1 25
10 x 12	"	2 00
11 x 14	for 12 plates	3 00
14 x 17	"	3 50
17 x 20	"	4 50
20 x 24	"	5 50



Special sizes to hold any number of plates required, made to order. Above blackened inside and fitted with lock and key, \$1.00 extra.

ADAMANTEAN FERROTYPED PLATES.

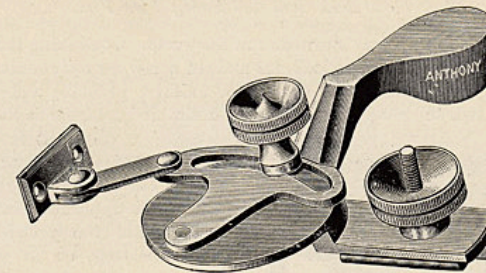
Box of 8 dozen, Black or Chocolate Tint, 1-9	Size	Egg-shell.	Glossy.
" 8 " " " " 1-6 "	"	\$0 80	\$0 90
" 8 " " " " 1-4 "	"	1 25	1 35
" 4 " " " " 1-2 "	"	1 85	2 00
" 4 " " " " 4½ x 6½ Size	"	2 20	2 35
" 4 " " " " 5 x 7 "	"	2 20	2 35
" 2 " " " " 6½ x 8½ "	"	2 40	2 70
" 2 " " " " 7 x 10 "	"	2 40	2 70
" 2 " " " " 10 x 14 "	"	2 70	2 90
200 Sheets	"	28 00	30 00

The best and most uniform plates in the market.

FERROTYPED PLATES.

EUREKA	Box of 200 10 x 14 Egg-shell, Black or Chocolate	\$20 00	Glossy	\$22 00
UNION	" " " " " " "	15 00	Per doz	90
CENTENNIAL	" " " " " " "	10 00	"	60
COLUMBIA	" " " " " " "	7 50	"	50
RIV/L	" " " " " " "	7 00	"	

FOCUSING LEVER—COMPLETE.



As shown by the cut, this lever is of great assistance in working any large camera box, as it renders a perfect adjustment of focus easily obtainable. A general focus is first obtained in the ordinary way, and by slight pressure on the lever may be reduced to microscopic sharpness, which once obtained may be kept by means of milled binding screw.

For	Prices.
8 x 10 Cameras	\$3 50
" 11 x 14 "	5 00
" 14 x 17 "	5 00
" 17 x 20 "	7 00
" 18 x 22 "	7 00
" 20 x 24 "	7 00

IMPROVED FOCUSING LEVER FOR CAMERAS. (Self-Fastening.)

PATENTED MAY 23, 1882.

The annexed cuts will illustrate our new patented focusing lever for cameras, which when placed in proper position, needs no set screw to keep the plate in focus. It may be described as follows:

On one end is a small plate which is to be fastened to the sliding part of the camera. The remainder runs regularly in the slot in the center rail, the same as the ordinary style. To focus, the milled screw at the rear end of the attachment is loosened, and the lever brought directly over it. A general focus is then secured, and the attachment fastened firmly by the screw. Then by pushing the lever to the right or left the exact focus is obtained, and the lever needs no fastening, as the motion forward and back can only be made by moving the lever. Fig. 1 represents the lever thrown to the left, repelling the rear part of the camera, or shortening the focus. Fig. 2 shows the effect of reversing the motion. Price each, nickel-plated, \$2 50.

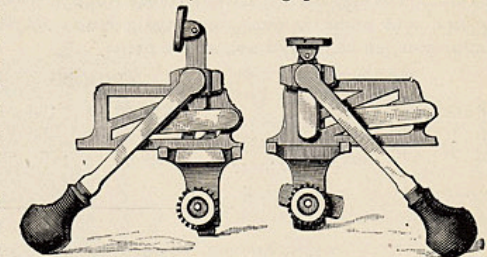


Fig. 1.

Fig. 2.



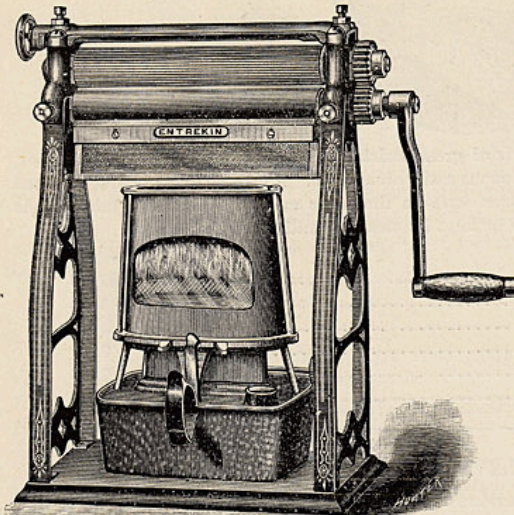
ANTHONY'S TIMING PLUMMET.

This device is constructed to mark one second of time at each beat, and is intended to simplify the timing of exposures. Price, 25 cents.

ENTREKIN'S IMPROVED ROTARY BURNISHER,

With Turn Back Roll and Swing Fire Pan,

Is without exception the Best Rotary Burnisher in the world. Combining the turn back roll, the one wheel-end adjustment and the lock-nut and set screw for maintaining even wear on the boxes and journals, with our patent device for uniform pressure, and being provided with a swing fire pan, it is the most practicable and desirable burnisher to be found.



The most essential improvements of this machine over all other Rotary Burnishers is, that the upper roll can be turned back from the polishing roll while heating, so as to prevent the moisture from dropping on the polishing roll and defacing the same; also, giving better facilities for cleaning the polished or nickel plated roll. The mechanical construction of these machines is first class in every particular. Both rolls are nickel plated, and every machine is guaranteed perfect. In the ten-inch size we build two styles—a light and a heavy machine.

Before heating, see that the lower or polished roll is perfectly clean; then place the gas heater, alcohol lamp or oil stove, as the case may be, under the fire pan.

having the flame parallel with the roll. Turn the handle occasionally, so as to equally diffuse the heat through the roll. Wipe the moisture from the polished roll before it evaporates, so as to prevent its drying and leaving stains on the surface of the polished roll. To secure the best results, have the lower roll about the temperature of a laundry iron when in use, and perfectly clean, and the pictures slightly moist. Use medium pressure. Lubricator can be used or not, as you prefer.

PRICES.

8-inch Roll	\$12 00	15-inch Roll	\$30 00
10 " " light.....	15 00	20 " "	40 00
10 " " heavy	25 00	25 " "	55 00

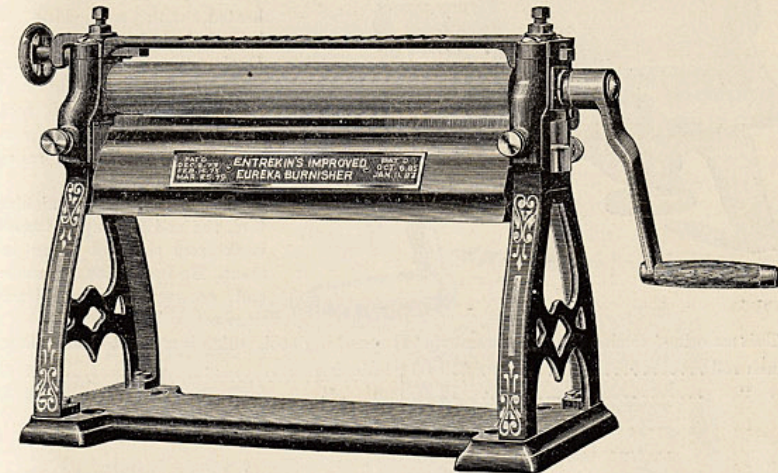
ENTREKIN'S IMPROVED EUREKA BURNISHER

Has the One Wheel-end Adjustment, Turnback Roll and Movable Burnishing Tool.

The one wheel-end adjustment produces uniform pressure and perfect accuracy of adjustment with one motion. In case of uneven wear of the journals or boxes, the facility of the operator to readjust the roll in connection with the burnishing tool is a great advantage, allowing perfect adjustment to be maintained at all times, by simply loosening the lock-nut, adjusting the roll with the set-screw and tightening the lock-nut. We furnish a two-end wrench for this purpose.

This machine has also our patent turn-back roll device, so that by simply pulling out the two spring-bolts in front of the housings holding the upper roll, the roll may be thrown back in an instant when you wish to dress the tool. While heating the tool, it is a good plan to keep the roll turned back, as it prevents the moisture which collects on the roll from

dropping on the tool and impairing its surface. The bed holding the burnishing tool is so constructed that by turning the thumb screws connected with it, the burnishing tool may be shifted so as to change the point of contact between the tool and the roll, so the whole



surface of the burnishing tool be used. The operator will find this advantageous, in case he happens to scratch the surface of the tool while burnishing, as by moving the tool he secures a new burnishing surface without the necessity of stopping to dress the tool.

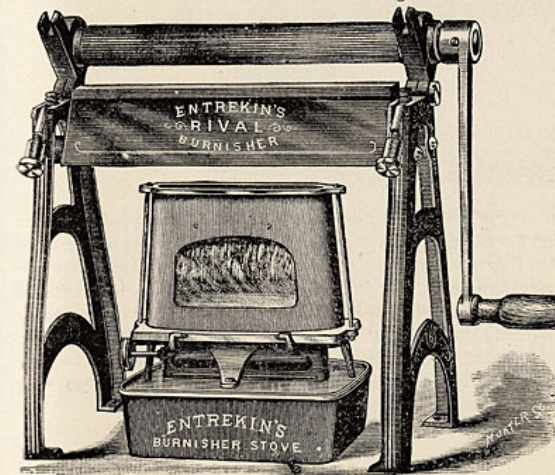
PRICES.

8-inch Roll.....	\$10 00	15-inch Roll.....	\$30 00
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ENTREKIN'S RIVAL BURNISHER

Is Quickly Heated, Economical and Durable, and has Removable Burnishing Tool,

Which is a great advantage, as, if the burnishing tool becomes defaced, it can be replaced at a mere nominal cost, and the machine is as good as new. The burnisher can be heated with

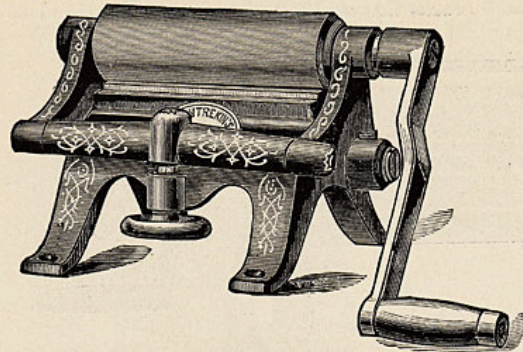


alcohol, oil or gas. During the process of heating, the roll can be turned back from the burnishing tool by disconnecting the pressure screws from the slots in which they rest, thereby preventing the condensation of moisture forming on the roll or tool. When using, first heat the burnishing tool about the temperature of a laundry iron when in use, and keep it at that temperature; see that the roll is clear of moisture, and properly adjusted by means of the adjusting screw. Use light pressure.

PRICE.

10-inch Roll fitted with Alcohol Lamp, Gas Burner or Coal Oil Lamp.....	\$10 00
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ENTREKIN'S EUREKA BURNISHER.



The Burnisher can be heated with any kind of lamp—alcohol, coal oil, or gas. During the process of heating the roll can be turned back from the burnishing tool, thereby preventing the condensation of moisture forming on the roll or tool.

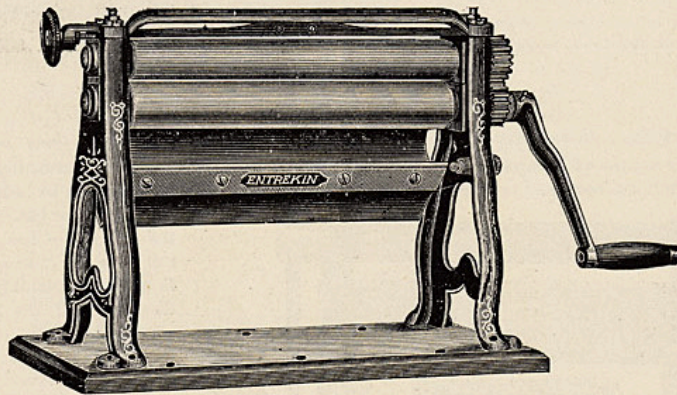
To dress the burnishing tool, the roll is simply turned back from the tool in an instant. No hot plates to handle, and consequently no burnt fingers.

This machine has also the patent removable burnishing tool, which is a decided advantage.

6-inch roll	\$10 00	14-inch roll.....	\$22 50
10 "	12 50	20 "	50 00
25-inch roll.....	\$55 00		

ENTREKIN'S ACCURATE ROTARY BURNISHER.

THE LATEST—PATENTED JANUARY 11, 1887.



With swing fire pan and one screw-wheel adjustment, this is the most perfect device ever applied to a photograph burnisher for securing the pressure and giving perfect accuracy of adjustment with one motion. Another great advantage is the facility the photographer has to readjust the rolls in case of uneven wear of the journals and boxes by the lock nut and set screws placed upon the wedges at each end of the roll; perfect adjustment can be maintained at all times by simply loosening the lock nut, adjusting the roll with the set screw, and then tightening the lock nut. This is only to be done when the adjustment has become impaired by wear of the machine from long and constant use. We send with each machine a two-end wrench for this purpose.

PRICES.

10-inch roll....	\$20 00
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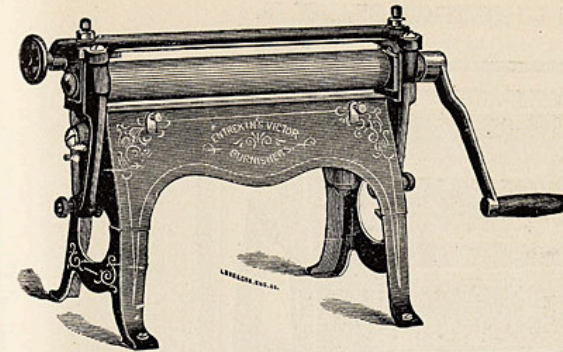
Prices include either the Oil Stove or Gas Burner. The former sent unless specified

ENTREKIN'S NEW VICTOR BURNISHER.

With patented movable burnishing tool and one wheel adjustment for uniform pressure and accuracy of adjustment at one motion.

PRICES.

8 inch Roll	\$10 00
10 inch Roll.....	15 00
15 inch Roll.....	20 00



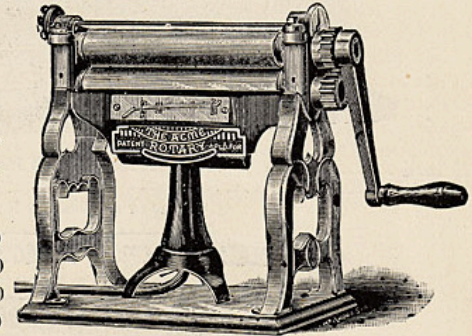
THE ACME ROTARY PHOTO BURNISHER

(PATENT APPLIED FOR)

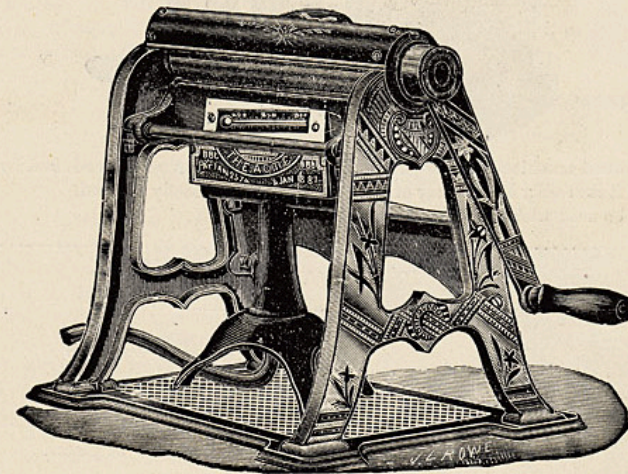
is the latest and best burnisher out.

It is a model of neatness and heats quickly and evenly.

Price, 11 inch, with gas or oil..	\$25 00
" 15 " " " ..	35 00
" 21 " " " ..	55 00
" 26 " " " ..	65 00



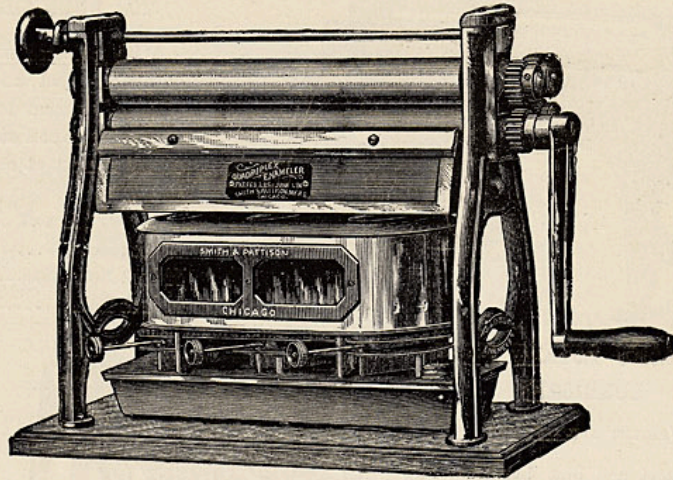
NEW ACME PATENT FLUE HEATING PHOTO-BURNISHER.



This burnisher is heated, either by gas or oil, and the heat can always be gauged by a thermometer which is attached to the front of burnisher. It is easily and quickly heated, and is made to accomplish the best possible results with the least complicity of parts.

11-inch roll, with gas or oil.....	\$25 00	21-inch roll, with gas.....	\$55 00
15 " " " "	35 00	26 " " " "	65 00

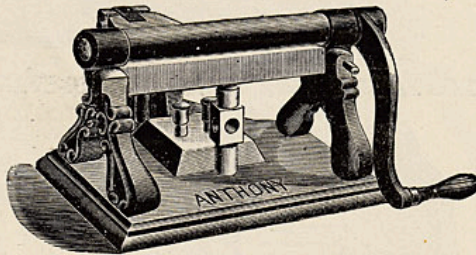
THE QUADRUPLEX ENAMELER.



10 inch	\$25 00	20 inch	\$45 00
15 "	35 00	25 "	55 00

Gas or oil heaters included.

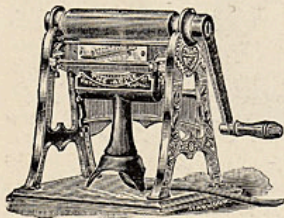
CLIMAX CHAMPION IMPROVED BURNISHER.



An excellent machine at a low price. The roller is hinged at one end, and by removing an iron key it is readily lifted clear of the base and may be easily cleaned.

It may be used with either gas or oil.

6-inch.....	\$3 00	14-inch.....	\$27 00
10-inch.....			\$16 00



ACME BURNISHER,

8-INCH—FOR AMATEURS,

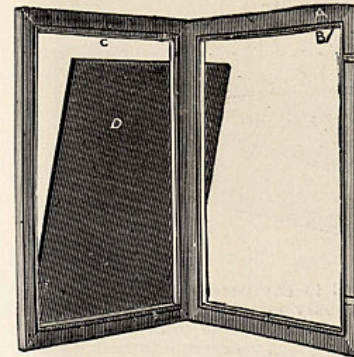
is made with special reference to use by amateurs and those who use the smaller sizes of plates.

It is a beautiful tool.

Price..... \$15 00

KUHN'S SENSITIZED PAPER STRETCHER AND DRYER.

PATENTED APRIL 13, 1886.



This simple arrangement cannot but commend itself to every practical photographer.

The cut represents the Stretcher open; (a) represents the two frames fastened together with hinges; (b) is a rubber strip which fits in groove (c); in opposite frame (d) is a board same thickness as the Stretcher, and lays inside while the sensitized paper is being placed in position before the Stretcher is closed which fastened with the two clasps at side. By this method the paper is held in place by the rubber strip (b), and is then set up and allowed to dry. When dry it is perfectly smooth (in fact just like a drum-head), and has a beautiful gloss. Two sheets can be put in a Stretcher at the same time; when dry the Stretcher and paper are put in the fuming box.

Paper dried in this manner lays perfectly flat, and therefore better prints can be made, and you can also cut your paper either lengthwise or crosswise of the sheet, as it neither stretches nor shrinks afterwards. In addition to all the above advantages, the paper is much more easily handled than in any other way; in fact it is no trouble at all. The Stretchers are made in two sizes.

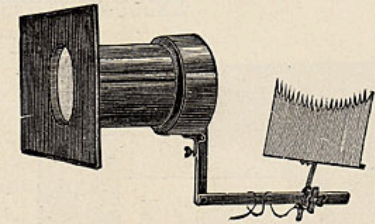
Price for sheet 18 x 22, each..... \$1 50 | Price for 20 x 24, each..... \$1 75

KUHN'S IMPROVED VIGNETTING ATTACHMENT

For Vignetting the Negative.

Light, strong and durable. It is perfectly reliable and quickly adjusted to any lens by means of a thumb screw. It can be raised or lowered at will to any position desired by the operator, by simply pulling a cord, without leaving his position behind the Camera.

Price, each..... \$3 50



PATENTED.

THE NEW MAGIC VIGNETTER.

PATENTED MAY 31, 1887.

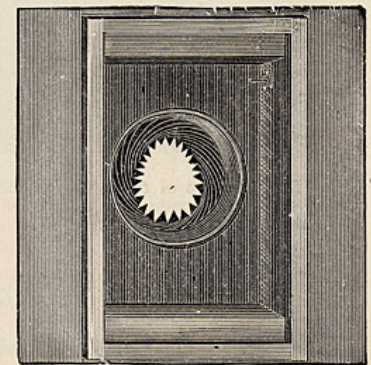
FOR PRODUCING THE POPULAR BACKGROUND PHOTOGRAPHS.

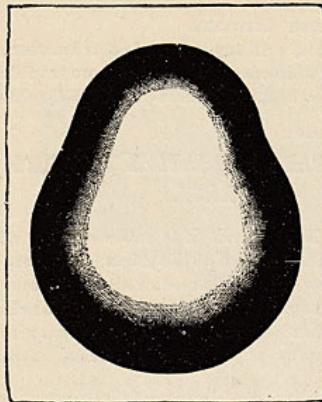
Heretofore the difficulty and extra labor in making them has been so great that but few have ventured. With this attachment there is no more trouble or expense than in making plain photographs.

Either light or dark backgrounds can be used, but of course should be suited to the dress. Can be easily attached to the diaphragm of any camera by means of the two screws as shown in cut above.

It is telescopic, so it can be used with either a long or short focus lens. It also has a carriage, so that the picture can always be located in the center of the plate.

The opening can be adjusted to the proper size by simply moving the lever. Focus and expose as usual. Price, each \$8 00.



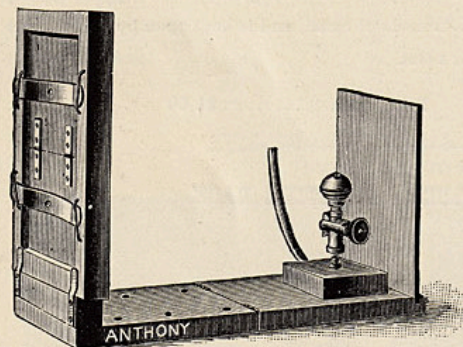


WEYMOUTH'S VIGNETTE PAPERS.

Nineteen sizes are now made, suiting all dimensions of pictures from a small *carte* figure to Victorias, cabinets, whole size, etc. They are printed in black for ordinary negatives, yellow bronze for thin negatives, and red bronze for still weaker ones.

In envelopes, containing one each, Nos. 1 to 15. \$1 00
 Nos. 1, 2, 3, 4 and 5, for cartes, per dozen..... 50
 " 6, 7, 11, 12 and 13, for large cartes and Victorias, per dozen..... 75
 " 8, 9, 10, 14, 15 and 15½, for cabinets and 4-4 size..... 1 00
 " 16, 17 and 18, for cabinet and half-size, per dozen..... 1 25

ACWORTH'S APPARATUS FOR PRINTING BROMIDES BY CONTACT.



As will be seen by the cut, this consists of a base-board, movable strip for holding the printing frame, gas jet and reflector.

The patent gas jet is connected with the house gas by a rubber tube, lighted and turned apparently out. Inside the outer case is a fine jet, which is not extinguished, but emits no light. The bromide paper is placed in the printing frame, which is then put in position. Turn the gas on by the stop-cock in patent jet, for the proper length of time, then shut same off. The operation can be repeated as long as desired

without relighting the jet. In the base-board are holes which admit of bringing the print nearer the light. These have been calculated to a nicety. If one second is necessary in the row nearest the jet, two seconds will be required in the next row, three in the third and four in the fourth. The apparatus is suited for 8 x 10 prints and under, and serves equally well for printing transparent positives.

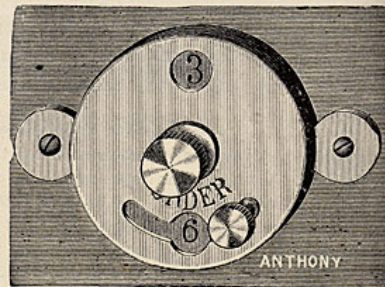
Price, without printing frame or tubing..... \$1 50

ALLDERIGE'S COMPOUND PRINTING REGISTER.

(PATENTED.)

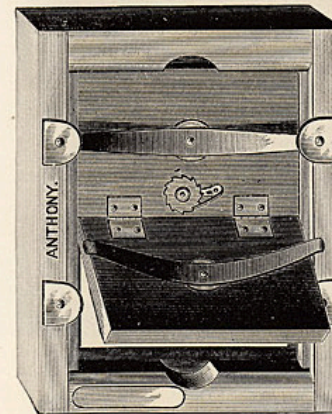
This neat article can be readily attached to the door of any printing frame, and has two dials, one of which shows how many prints are to be made from the negative, and as each one is removed it is recorded on the other dial. By this means the count can always be kept correctly. They are all nickel-plated, and the cut shows the exact size.

Price, per dozen..... \$0 50



ANTHONY'S PATENT IMPROVED PRINTING FRAMES.

Our printing frames have been greatly improved by the placing of a washer under the spring, thereby saving the wear and tear of the wood-work, and the springs are fastened with rivets instead of screws. A tongue and groove is fitted into the back of frame where the two parts are hinged, preventing the entrance of any light. We have also recently added a spring tally for recording the number of prints made (see cut). A celluloid tablet is



recessed into each frame, constituting an admirable means for recording details of negative and of printing. Being recessed, the tablet is out of the way and no erasure of the notes is possible unless desired. The celluloid takes the pencil easily and marks are readily washed off.

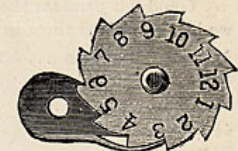
Size.	Flat.	Deep.	Size.	Flat.	Deep.
3½ x 4½	\$0 36	....	11 x 14	\$1 80	\$2 40
4 x 5	38	....	14 x 17	2 40	3 00
4½ x 5½	40	....	16 x 20	3 00	4 20
4½ x 6½	42	....	17 x 20	3 00	4 50
5 x 7	50	....	18 x 22	4 00	5 00
5 x 8	52	....	20 x 24	5 00	5 25
6½ x 8½	60	\$1 20	24 x 30	....	8 80
8 x 10	75	1 40	35 x 45	....	15 00
10 x 12	1 00	1 60	30 x 60	....	20 00

When the backs open lengthwise, 10 per cent. additional is charged.

SPRING REGISTERING TALLY.

Which is attached to all of Anthony's printing frames, without charge.

Price, separately, 10 cents each.



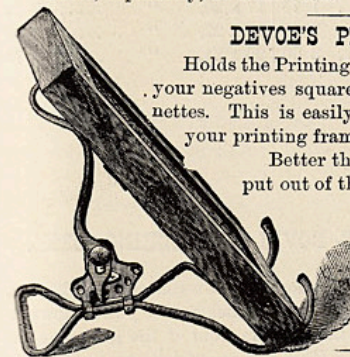
DEVOS'S PRINTING EASEL.

Holds the Printing Frame at any desired angle. Economizes space, keeps your negatives square to the sun, thereby making more symmetrical Vignettes. This is easily done with this adjustable holder. It also prevents your printing frames from slipping down and breaking negatives.

Better than shelves, blocks of wood, or any other device. Easily put out of the way when not in use. Simple, efficient, cheap.

They do not wear out, break or rust, being made of malleable iron and strong wire, all thoroughly tinned. Try them and you will wonder how you ever got along without them.

Price, size suitable for Printing Frames from ½ to 10 x 12, per dozen..... \$3 00



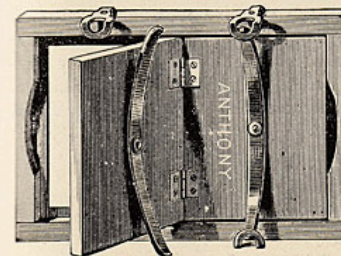
FAIRY PRINTING FRAMES.

PATENTED DEC. 8, 1885.

Combining strength, rigidity and lightness, and so constructed that the springs lock into the eyes or catches on the sides, rendering it impossible for them to slip from position. They are handsomely finished, and much lighter and more compact than any other style. Prices as follows:

3½ x 4½, each.....	\$0 45	5 x 7, each....	\$0 60
4 x 5, ".....	45	5 x 8, ".....	30
4½ x 5½, ".....	45	6½ x 8½, ".....	65
4½ x 6½, ".....	55	8 x 10, ".....	75

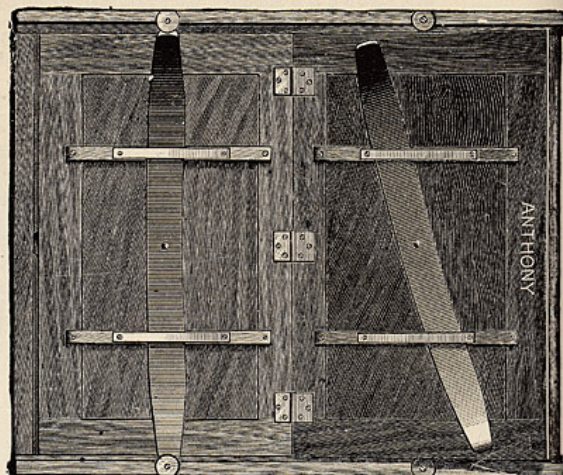
No larger sizes made.



THE "LEWIS" IMPROVED PRINTING FRAME.

As will be noticed by the illustration, the pressure on the negative is equally distributed, the bearing covering eight points, thereby reducing the danger of breaking a negative to the minimum.

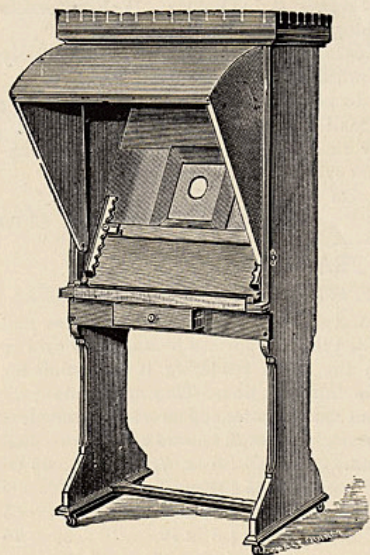
14 x 17.....	\$2 40
17 x 20.....	3 00
18 x 22.....	4 00
20 x 24.....	5 00



PRINTING-FRAME PADS.

Good felt pads for the printing frame have long been in demand. To supply this want we have provided them in the following sizes, put up in boxes of one dozen each.

3½ x 4½, per dozen ...	\$0 35	5 x 8, per dozen....	\$0 80	14 x 17, per dozen.....	\$5 00
4 x 5, "	40	6½ x 8½, "	1 08	16 x 20, "	7 00
4½ x 5½, "	45	8 x 10, "	1 75	17 x 20, "	7 50
4½ x 6½, "	60	10 x 12, "	2 40	18 x 22, "	9 00
5 x 7, "	70	11 x 14, "	3 00	20 x 24, "	9 75

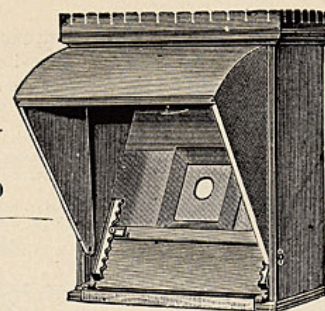


THE NOVEL RETOUCHING DESK.

Suitable for any size negative under 25 x 30. It has a false top which can be pulled down to darken the space in front of the ground glass cut-out. The bed on which the negative is laid can be set at any inclination to suit the convenience of the artist. By means of the slide rest, the negative may be moved up or down to any desired position. These desks are all made of hard wood, perfectly constructed, nicely engraved and well finished. They are an ornament to any studio. Price, \$12 00.

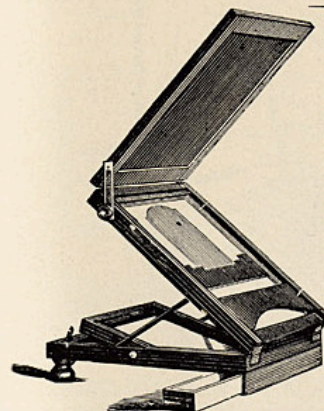
The Novel Retouching Desk, same as above, without stand or drawer.

Price \$7 00



IMPROVED RETOUCHING FRAME.

Improved Retouching Frame, for 8 x 10 and under.....	\$3 00
Improved Retouching Frame, for 11 x 14 and under.....	7 00

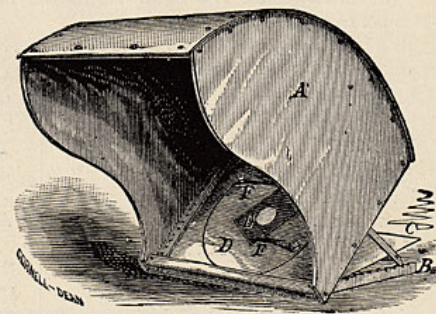


MOULTON'S IMPROVED RETOUCHING FRAMES.

For sale at the following prices :

8 x 10 Negatives and under....	\$3 00
11 x 14 "	4 00

Larger sizes to order.



A is the hood. *B*, inclination notches. *C*, reflector. *D*, turn table. *E*, light panel. *FF*, springs.

WAGNER'S RETOUCHING CYLINDERS.

There are three dark tints, viz.: No. 1, brownish tint; No. 2, reddish tint; No. 3, bluish tint. These are generally used before burnishing instead of India ink.

There are three tints to match up albumen tones, viz.: No. 1, pure white; No. 2, light yellow white; No. 3, deep yellow white. These dry glossy, and are very convenient in finishing; will also bear burnishing.



The six colors in polished mahogany box	\$2 00
Per single cylinder.....	30

RETOCADOR

Is an electric retouching pencil, operated by a portable battery. It is extremely simple and may be worked easily by anyone having the least knowledge of ordinary retouching methods.

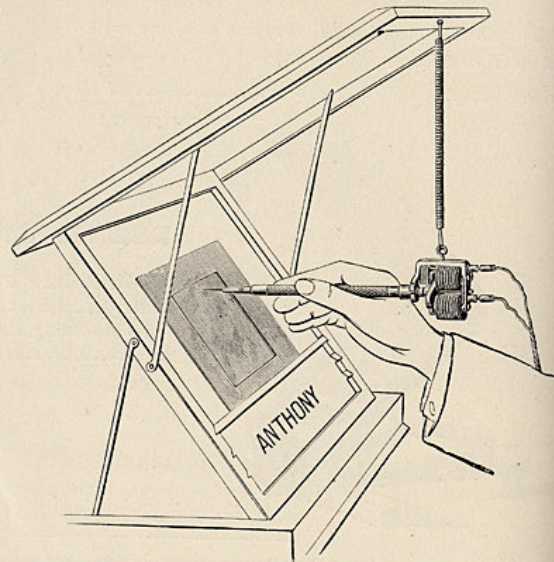
The pencil itself in which is the motor, is attached by a fine spiral spring to the frame of the retouching stand, thus relieving the hand of all weight, and is operated just as an ordinary pencil would be, except that the desired effect is produced by the pencil automatically instead of by movement of the hand. The lead, which may be either a Smith metallic point or an A. W. Faber 5 H retouching point, is sharpened to a long fine point as shown in the cut, and the motion given it by applying the power, is a rapid revolving one. The rapidity with which the point is moved over the negative regulates the grain of the stipple effect produced.

This pencil has been in practical working operation for nearly a year and has demonstrated that it is perfectly practicable and a vast improvement over handwork, an ordinary operator being able to retouch from 14 to 20 cabinets per day.

Price, complete, including battery	\$25 00
Apparatus Complete, including 60-hour Battery, packed in box, and Pen, Cord and Suspension Spring in small box.	\$25 00
Pen alone in a box.	20 00
Cord alone in box, complete, with terminals,	1 25
Suspension Spring.	25
Battery as above and connector, in box.	3 50
Zincs, each 8 cents, per dozen, 90 cents; per gross.	10 00

This Battery, when exhausted, may be refilled at a cost of 20 cents, and is then good for another run of 60 hours.

These batteries will operate the pen for the specified number of hours whether it be worked one or ten hours per day; and they require no attention after being set up, until the end of the run, when the zincs, negative plates and solutions must be removed from the cells and fresh ones substituted.



For those who prefer a Battery charged for longer service than 60 hours, we can supply the following:

Battery No. 5, which will run the pen for 500 hours continuously, price complete	\$8 00
Elements and solution for renewing Battery.	2 85
Battery No. 10, which will run the pen for 1,000 hours	11 40
Elements and solution for renewing Battery.	5 00
Battery No. 20, which will run the pen for 2,000 hours	19 40
Elements and solution for renewing Battery.	9 00

METALLIC RETOUCHING PENCILS.

Crowell's, each 20 cents. | Smith's points, each 25 cents.

RETOUCHING PENCILS.



FABER'S HOLDER FOR LEADS, including one lead, each \$0 25.

A. W. FABER'S PENCILS.

WITH SIBERIAN LEAD FROM THE ALBERT MINE.

FOR RETOUCHING, ETC.

We give the following scale for convenience in ordering:

- BBBBBB—Extra soft and extra black.
- BBBB—Very soft and extra black.
- BBB—Very soft and very black.
- BB—Soft and very black.
- B—Soft and black.
- HB—Hard and black.
- F—Middling.
- H—Hard.
- HH—Harder.
- HHH—Very hard.
- HHHH—Very hard.
- HHHHH—Extra hard.

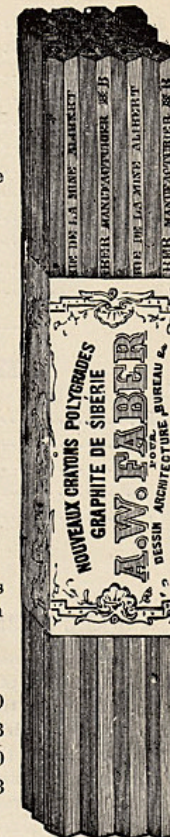
The above scale applies to both the pencils in wood and leads only, so be sure to state which is wanted.

SIBERIAN PENCILS.

2 B to 6 H, per doz.	\$1 10	Each. \$0 10
3 B " 6 B, "	1 25	" .. 13
2 B " 6 H, Leads, per doz.	1 10	" .. 10
3 B " 6 B, " "	1 25	" .. 13

CAMEL'S-HAIR DUSTERS.

	Per Dozen.	Each.
1 inch	\$2 25	\$0 20
1½ "	2 37	30
2 "	4 50	40
2½ "	5 62	50
3 "	6 75	60



RED SABLE PENCILS—FIRST QUALITY.

PRICES.		
No.	Per Gross.	Each.
No. 1	\$8 00	\$0 07
" 2	8 30	08
" 3	9 90	09
" 4	11 40	10
" 5	12 90	12
" 6	14 45	15
" 7	21 25	18
" 8	23 15	20
" 9	24 80	22
" 10	28 20	24
" 11	34 75	30
" 12	42 90	38

BRISTLE BRUSHES.

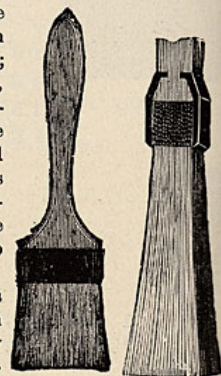
	Per Dozen.	Each.
1 inch.....	\$1 20	\$0 12
1½ inches.....	1 80	20
2 ".....	2 40	25
2½ ".....	3 00	30
3 ".....	3 60	40

HARD RUBBER SET AND BOUND PHOTOGRAPHERS' BRUSHES.

The bristles of these brushes are secured by first immersing the butts (or stiff ends) of the bristles in soft rubber; they are then put upon the end of the handle (not around it as in the old way); a belt of rubber combined with metal is wound around the whole, covering the butt of the bristles, and conforming to a groove running around the adjoining end of the handle. The portion of the brush covered with rubber and metal is then placed in a die and vulcanized (or hardened) under heat and pressure. The result is a solid vulcanized head, in which the bristles are so thoroughly imbedded that it is impossible for them to get loose. The handle being dovetailed into the head (see sectional illustration), is also firmly secured.

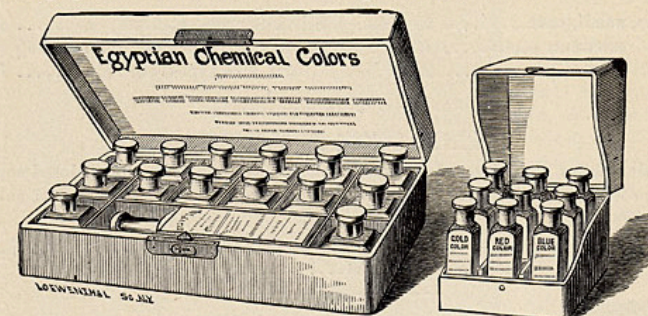
It is self-evident that this method of constructing brushes is far superior to the old modes. These brushes are not affected in any manner by any solution in which they may be used, and they can be kept for any length of time in either damp or dry atmosphere without injury. Prices are as follows:

Width.	Each.	Width.	Each.
1 inch Camel's Hair.....	\$0 38	1 inch Bristle, paste.....	\$0 20
1½ " ".....	57	1½ " ".....	25
2 " ".....	75	2 " ".....	35
2½ " ".....	95	2½ " ".....	45
3 " ".....	1 35	3 " ".....	50



EGYPTIAN CHEMICAL COLORS.

Triple strength. Manufactured expressly for painting photographs, views, etc.; also used in connection with the Egyptian Transparent Compound for producing the Egyptian Crystal Photograph, said to be the most life-like picture in the world.



No. 1.

No. 3.

PRICE LIST OF COLORS.

Box No. 1 contains 13 one ounce (white glass) bottles of colors and one six ounce bottle compound for mounting photographs on flat or convex glass after they are colored. This is a box with nickel-plated lock and hinges, highly polished, and will color five thousand imperial size photographs. Price, \$6 00.

Box No. 2 contains 9 half-ounce bottles of colors. Polished wood box. Price, \$2 50.

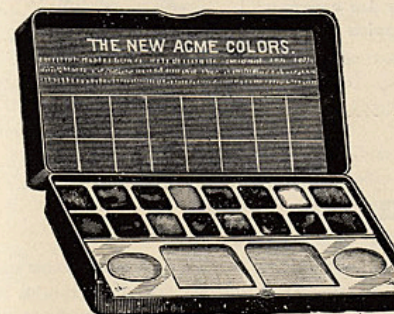
Box No. 3 contains 9 quarter-ounce bottles of colors. Polished wood box. Price, \$1 50. Single bottles, 30 cents each.

Egyptian Transparency Compound, 75 cents per bottle.

LIQUID WATER COLORS, ETC.

Chinese, per box of 12.....	\$1 20
Anderson's (dry), fitted, per box of 14.....	1 75
Cake Water Colors, per cake or box, to order.....	20c. to 9 00
India Ink (lion head), per stick.....	20

ACME TRANSPARENT WATER COLORS



are adapted to any and all kinds of paper, and are specially intended for views, lantern slides, transferotypes, transparencies, engravings, artotypes and prints. They are easy of application, economical, and of great permanency. Each color is put up in separate double pans and each set of colors in a neat box.

Large box containing 16 colors, palette and instructions.....	\$2 50
Amateur box containing 6 colors, palette and instructions.....	1 00
Single pan of color (except carmine, 35 cents).....	25
Acme medium for gloss finish, per pan.....	35
Acme guide to coloring.....	25

GIHON'S OPAQUE.

Opaque (Gihon's), per box..... 50 cents.

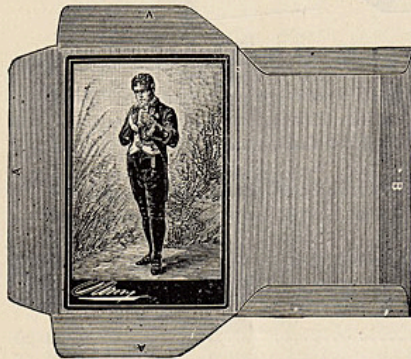
GOLD AND SILVER SAUCERS.

Gold Saucers, small, each..... 10 cents.	Silver Saucers, medium, each..... 10 cents.
“ medium, each..... 13 “	Silver Ink (French's), for spotting
“ large, each..... 20 “	out ferrotypes, per cake..... 35 “

CABINET PHOTO ENCLOSURES.

Are invaluable for high class work, as each photograph may thus be enclosed separately and perfect protection of the print be insured. They are made in two grades of thin white paper as follows :

White, Ordinary, per M.....\$1 88	White, Linen, per M.....\$2 25
Rice, White, per M.....\$2 00	



LAVETTE'S PATENT ENVELOPE

For Mailing Individual Photographs.

Insures perfect safety to the print while in the mail.

Is all ready to insert the print and seal.

Will include a written letter with the photograph, sealed securely from observation.

Is neat, handy, safe and indispensable.

Packed 250 in a box.

\$10 per 1,000; or \$1.20 per 100.



JAPANESE ART TISSUES.

The finest quality of Mikado Silk Paper for covering fronts of photographs, and preserving the burnish or gloss. Eight charming designs printed in blue ink.

Nearly twenty million have been sold.

Price per 1,000, assorted designs..... \$2 00

ANTHONY'S ARISTOTYPE PASTE

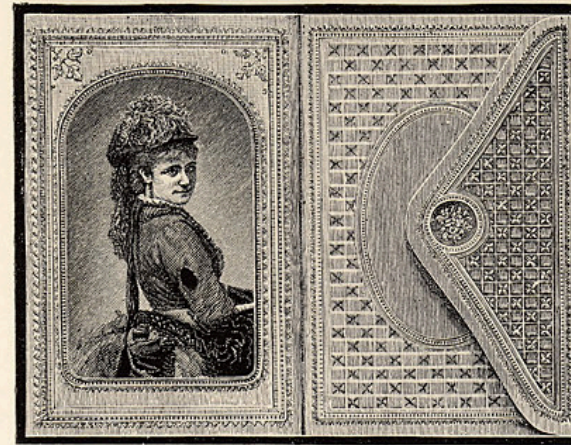
Is an unexcelled mountant for either silver prints or aristrotypes.

The basis of this Paste being gelatine, it requires only to be placed in warm water until liquefied and may then be applied with a soft brush. It is entirely free from lumps, and by reason of being applied hot, the prints may be mounted dry. It will be found smooth, clean and easy of application and will keep almost indefinitely.

PRICE.

Per can..... 30 cents. | Per doz. cans..... \$3 00

ANTHONY'S NEW EMBOSSED ENVELOPE.



This handsome envelope supplies a long expressed demand, and forms an elegant receptacle for either the carte de visite or the bon ton ferrotype. It is embossed on delicately toned paper, from a new design, and may be had in assorted tints, with oval and arch openings. Put up in boxes of four packs containing twenty-five each, at \$1.00 per 100.

PHILADELPHIA CARTE ENVELOPES.

Prices are now reduced as follows :

Cabinet size, per 1,000..... \$10 00	Card size, per 1,000..... \$5 00
Half “ “ 8 00	Gem “ “ 4 00
Victoria “ “ 6 00	Bon-ton Slips, per 1,000, No. 11.... 2 00

Cabinet Bon-ton Holder, \$4 00 per 1,000.

CABINET MAILING ENVELOPES.

Manilla, per M..... \$1 50	No. 50, Manilla, per M..... \$2 50
No. 40, Manilla, per M..... 2 10	White, Granite or Fawn, per M..... 4 00

THE NEGATIVE PRESERVER

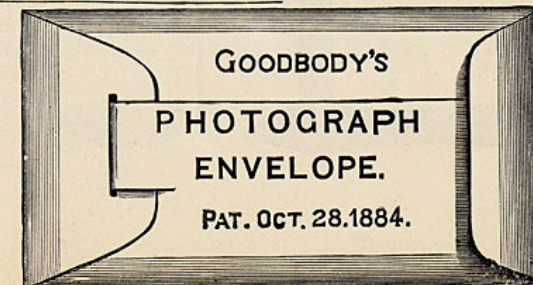
Consists of a stout brown paper envelope, one end open and cut to admit the thumb and forefinger in removing the negative, and having on the front three printed lines for the number, name and remarks. They may be used either with or without a rack, and in the latter case may be stood up on end, or piled one above another in any position, with safety; but their chief merit lies in the absolute protection of the glass and film from breakage, dust, and scratching.

They are put up in boxes of 500 each, 25 in a package, and cost as follows:

No. 1. For negatives 3½ x 4½, per 1,000..\$2 35	No. 5. For negatives 6½ x 8½, per 1,000..\$4 20
“ 2. “ “ 4 x 5 “ .. 2 50	“ 6. “ “ 8 x 10 “ .. 5 00
“ 3. “ “ 4½ x 6½ “ .. 2 75	“ 7. “ “ 10 x 12, per 100.. 1 40
“ 3½. “ “ 5 x 7 “ .. 3 00	“ 8. “ “ 11 x 14 “ .. 1 60
“ 4. “ “ 5 x 8 “ .. 3 25	“ 9. “ “ 14 x 17 “ .. 2 75

One of the best devices for the mailing or delivery of carte de visite and cabinet photographs. Does away with the bother of tying with strings, and the risk of trusting valuable mail matter to the uncertainty of rubber bands.

Carte de Visite, per 1,000 \$4 50
Cabinet, per 1,000..... 6 00



COVERING GLASS FOR LANTERN SLIDES.

Price, $3\frac{1}{2} \times 4$	Per Doz.	30 cents.
" $3\frac{1}{2} \times 4\frac{1}{2}$	45 "	
" 4×5	60 "	

SUPERIOR CONVEX GLASS.

For covering fine pictures, and especially for the Photochrome process.

Card size,	Oval or Round Corners.....	gross	\$2 25
Cabinet size,	" " $4\frac{1}{2} \times 6\frac{1}{2}$	"	5 40
Promenade size,	Round Corners, $4\frac{1}{2} \times 7\frac{1}{2}$	"	6 75
Panel size,	" " $4\frac{1}{2} \times 8\frac{1}{2}$	"	8 50
Boudoir size,	" " $5\frac{1}{2} \times 8\frac{1}{2}$	"	11 00
Whole size,	Oval or Round Corners, $6\frac{1}{2} \times 8\frac{1}{2}$	dozen	1 25
Extra whole size,	" " 8×10	"	2 50
Double whole size,	" " 10×12	"	6 75

PORCELAIN GLASS.

size, per dozen.....	Plain.	Ground.
1-4 " ".....	\$0 50	\$0 75
1-2 " ".....	1 25	1 50
4-4 " ".....	3 00	3 50
8 x 10 " ".....	3 50	4 00
10 x 12 " ".....	5 00	6 00
11 x 14 " ".....	6 50	7 50
14 x 17 " ".....	8 00	8 50

ORANGE AND RUBY GLASS

FOR DARK ROOMS.

Size 8 x 10, per light.....	\$0 30	Size 13 x 16, per light.....	\$0 70
" 10 x 12, ".....	50	" 12 x 20, ".....	80
" 11 x 14, ".....	55		

GLASS STIRRING RODS.

8 inch, each.....	10 cents.	15 inch, each.....	20 cents.
12 " ".....	15 "	18 " ".....	25 "

Both ends are glaze finished.

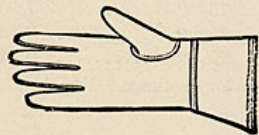
HARD RUBBER DIPPERS.

No. 3, size, 4×5 , each.....	\$0 35	No. 6 $\frac{1}{2}$, size, 10×12 , each.....	\$0 55
" 4, " 5×7 , ".....	40	" 7, " 12×16 , ".....	60
" 5, " 7×10 , ".....	45	" 8, " 14×18 , ".....	90
" 6, " 9×11 , ".....	50	" 9, " 17×20 , ".....	1 10
No. 10, size, 19×24 , each.....	\$1 60		

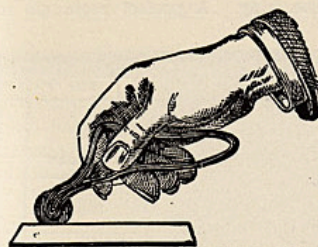
RUBBER GLOVES.

Just the Thing to Keep Silver or Pyrogallie Acid off the Hands.

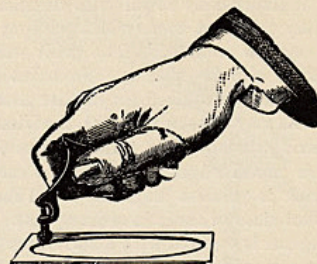
Sizes, ladies' long, Nos. 6, 7, 8 and 9, corresponding approximately to kid-glove sizes $5\frac{1}{2}$, 6, $6\frac{1}{2}$ and 7, per pair.....	\$1 50
Sizes, ladies' short, Nos. 6, 7, 8 and 9, per pair.....	1 25
Sizes, gents' long, Nos. 10, 11, 12, 13, 14 and 15, corresponding approximately to kid-glove sizes 7 $\frac{1}{2}$, 7 $\frac{3}{4}$, 8, 8 $\frac{1}{2}$ and 8 $\frac{3}{4}$ or 9, per pair.....	1 65
Sizes, gents' short, Nos. 10, 11, 12, 13, 14 and 15, pair..	1 35



PHOTOGRAPH TRIMMERS.



Plan of holding the Straight Cut Trimmer when in use. Price, 20 cents.



Plan of holding the Revolving Trimmer when in use. Price, 30 cents.

This Photograph Trimmer is substituted for the knife for trimming photographs, and does the work much more expeditiously and elegantly. They save time, save prints, and save money.

They do not *cut* but *pinch off* the waste paper, and leave the print with a neatly beveled edge, which facilitates adherence to the mount. Try one, and you will discard the knife and punch at once. For ovals and rounded corners they are worth their weight in gold.

ROBINSON'S GUIDES.

Made of sheet iron. We furnish to order the following regular sizes at 10 cents per inch the longest way of the aperture.

OVALS.					
$2 \times 2\frac{1}{2}$	$2\frac{1}{2} \times 3\frac{1}{2}$	$3\frac{1}{2} \times 4\frac{1}{2}$	5×7	$5\frac{1}{2} \times 7\frac{1}{2}$	7×9
$2\frac{1}{2} \times 3\frac{1}{2}$	$2\frac{1}{2} \times 4\frac{1}{2}$	$3\frac{1}{2} \times 5\frac{1}{2}$	$5\frac{1}{2} \times 7\frac{1}{2}$	6×8	$7\frac{1}{2} \times 9\frac{1}{2}$
$2\frac{1}{2} \times 3\frac{1}{2}$	$3\frac{1}{2} \times 4\frac{1}{2}$	$4 \times 5\frac{1}{2}$	$5\frac{1}{2} \times 7\frac{1}{2}$	$6\frac{1}{2} \times 8\frac{1}{2}$	$7\frac{1}{2} \times 9\frac{1}{2}$
$2\frac{1}{2} \times 3\frac{1}{2}$	$3\frac{1}{2} \times 4\frac{1}{2}$	$4\frac{1}{2} \times 6\frac{1}{2}$	$5\frac{1}{2} \times 7\frac{1}{2}$	$6\frac{1}{2} \times 8\frac{1}{2}$	$7\frac{1}{2} \times 9\frac{1}{2}$

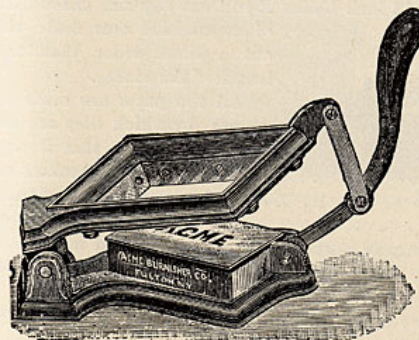
SQUARE OR ROUND CORNERED.

$1\frac{1}{2} \times 3\frac{1}{2}$	$1\frac{1}{2} \times 3\frac{1}{2}$	$2\frac{1}{2} \times 3\frac{1}{2}$	$2\frac{1}{2} \times 4\frac{1}{2}$	$2\frac{1}{2} \times 4\frac{1}{2}$	$4 \times 5\frac{1}{2}$	$3\frac{1}{2} \times 6$
$1\frac{1}{2} \times 3\frac{1}{2}$	$1\frac{5}{8} \times 3$	$2\frac{5}{8} \times 3\frac{1}{2}$	$2\frac{1}{2} \times 4\frac{1}{2}$	$3\frac{1}{2} \times 5\frac{1}{2}$	$4\frac{1}{2} \times 5\frac{1}{2}$	$4 \times 6\frac{1}{2}$
Arch Tops.			Round Cornered.			Round.
$3\frac{1}{2} \times 3\frac{1}{2}$, 3 x 3			$3\frac{1}{2} \times 3\frac{1}{2}$, 3 x 3			3 x 3

The above sizes suit the Collins Card Mounts, and photographers knowing that they can always be had at the low price of ten cents per inch, would do well to make their sizes accord, as orders can also be filled more quickly. Ten days is required to make special sizes.

Special sizes made to order at 15 cents per inch the longest way of the aperture.

THE ACME CABINET PRINT TRIMMER



will be found a most useful accessory to the gallery; it is quick, durable and accurate, and is the only trimmer in the market that cuts all four sides of a sheet at once.

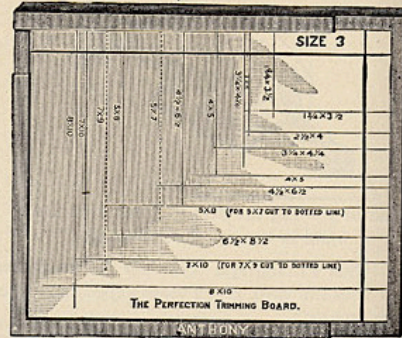
Several thicknesses may also be cut at one impression. It is made in two sizes. No. 1, $3\frac{1}{2} \times 5\frac{1}{2}$, and No. 2, $3\frac{1}{2} \times 6$ inches.

Price..... \$12 00
Special sizes to order..... 1 00 extra.

THE PERFECTION TRIMMING BOARD

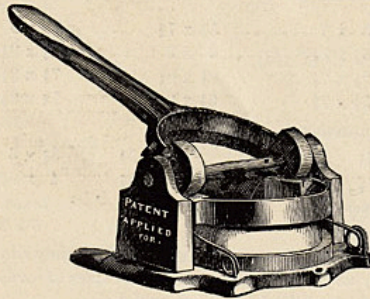
Is indispensable to all who do their own printing and mounting. The print is accurately trimmed to any size without measuring or marking. A perfect rectangle may always be obtained. The print will not readily slip in cutting. No extra glass patterns are required for smaller sizes.

As may be seen from cut, the trimming board consists of a solid wooden tablet with raised edges, containing a card on which is printed diagrams of all the different sizes of cards in ordinary use. This diagram is covered with a stationary thick glass, on which is a movable glass pattern. The print to be trimmed is laid in place under this glass pattern, which is held firmly against the raised edge of the board, to prevent its slipping, and a sharp knife or straight trimmer trims two sides, when the print is reversed and the other two sides cut. The operation is quick, sure and easy.



This is made in three sizes as follows:

- | | | |
|--------|--|---------------|
| No. 1. | For four sizes, from Petite to 4 x 5 inclusive..... | Price, \$1.00 |
| No. 2. | For seven sizes, from Petite to 5 x 8 inclusive..... | " 1.25 |
| No. 3. | For eleven sizes, from Petite to 8 x 10 inclusive..... | " 1.50 |



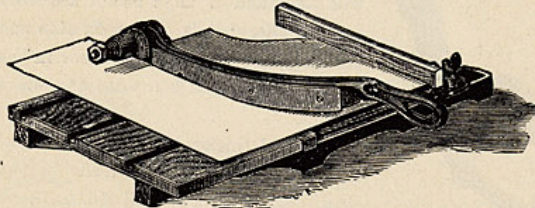
BARKER'S CAMEO PRESS.

Card size, with oval and arch top..... \$2 75
Imperial size, 3 dies..... 7 50

PHOTOGRAPHIC CARD AND FERROTYPE PLATE CUTTER.

Photographers will find this a grand thing for cutting albumen paper, and it is also invaluable for cutting ferrotype plates.

The advantages of this cutter are: with 12 inch blades it will cut any size sheet. No other machine ever made will cut a sheet wider than the length of the blades.



All the parts are made to gauges, by which they are interchangeable, so that if any part is worn out, broken or lost, a duplicate can be ordered.

All the parts are made of

the best material, and a cutter capable of a range of work never before attempted in a small machine is offered at less than one-half the price of any other cutter with same length of blades.

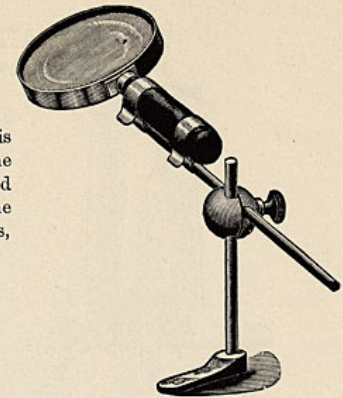
A number of important improvements have been made in this machine for closer register and the prevention of sagging where large sheets are being cut.

Price only \$10 00 for a complete machine, with adjustable gauges and latest improvements. Each machine boxed, and no extra charges.

RETOUCHING LENS SUPPORT.

The most practical device as yet invented for this purpose. The bed plate is screwed to the side of the retouching frame. The lens can readily be adjusted to and held firmly in any conceivable position by the universal ball clamp employed. Made of brass, nickel-plate finish.

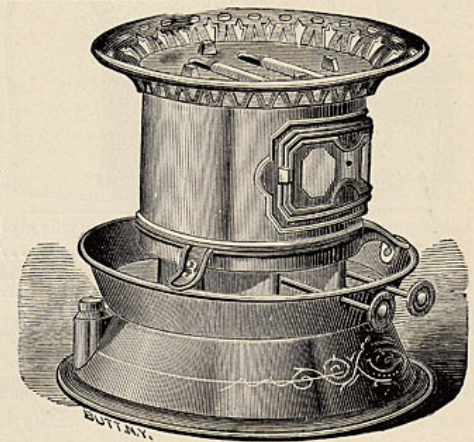
Price, each..... \$1 50



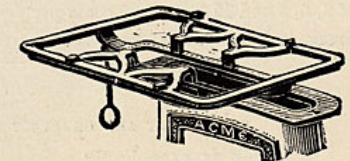
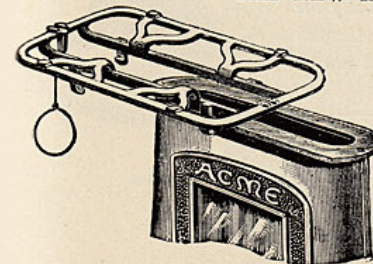
QUEEN KEROSENE OIL STOVE.

Made in the latest improved pattern. Each one has a water basin for keeping the tank cool that holds the oil.

- | | | |
|----------|-----------------------------|--------|
| No. 0. | 1 Burner, 1 1/2 inch wick.. | \$1 00 |
| " 1. | 1 " 3 " .. | 1 60 |
| " 2. | 2 " 3 " .. | 2 25 |
| " 2 1/2. | 2 " 3 1/4 " .. | 2 50 |
| " 3. | 2 " 4 " .. | 3 00 |



THE NEW ACME PORTABLE RACK

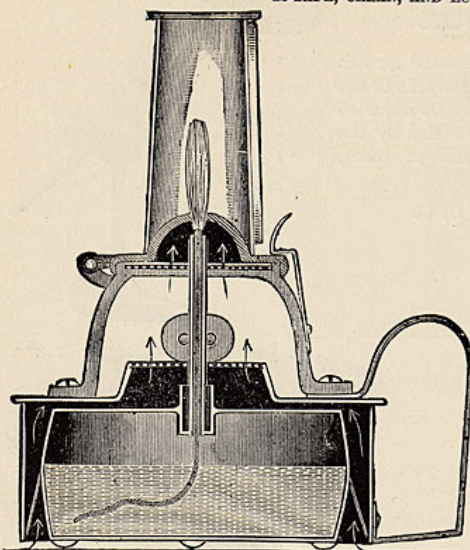


is a perfect substitute for the extra oil or gas stove, so necessary in all galleries. Can be adjusted to Acme oil stove and atmospheric gas heater instantly, and will be found most useful and economical.

Price 50 cents each.

THE-NEW PATENT ODORLESS LAMP STOVE

IS SAFE, CLEAN, AND ECONOMICAL.



Constructed on entirely new and scientific principles, with double ventilated tank, which makes it perfectly safe and prevents the oil from heating, thus avoiding danger and the disagreeable odors arising from the use of all other stoves.

The casing or jacket to which the burner is attached, is separated from the oil reservoir as shown in cut. With a constant current of cold air passing between the jacket and reservoir to feed the flame, it can be burned at its full capacity all day without heating or smelling. Will boil two quarts of water in fifteen minutes; has the largest burner of any lamp stove in the market; has a larger reservoir and holds more oil and will burn twice as long as any other lamp stove with a single burner. We will warrant it to produce twice the amount of heat, without smoking,

that is possible with any other lamp stove of this style ever yet produced.

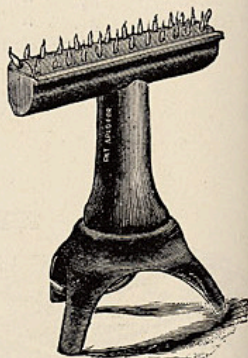
Price..... \$1 75
Extra wicks..... 10 cents each.

NEW ACME ODORLESS, ATMOSPHERIC GAS HEATER

is the most intense and economical gas heater ever invented. It burns with a pure carbon flame, and will produce twice the amount of heat, with less than half the quantity of gas, of the most economical gas heater ever yet produced. It burns 75 per cent. of air to 25 per cent. of gas.

Price..... \$1 75

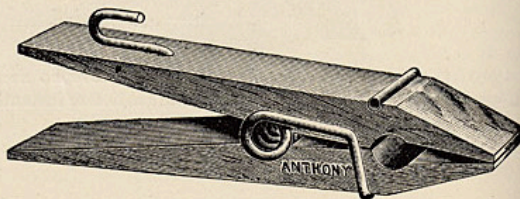
New Antimony Gas Tubing, manufactured specially for use with our New Atmospheric Gas Heater, furnished in lengths of 3, 6, 9 and 12 feet, at 20 cents per foot. Warranted not to break, leak or become saturated.



U. S. PHOTO CLIP.

THE LATEST AND CHEAPEST SERVICEABLE PHOTO CLIP IN THE MARKET.

This clip is exceedingly strong, being made of hard wood, with heavy wire springs, and is provided with a hook. The quality of stock employed in its construction is of the best, and the price lower than for any other article of its kind.



Price, per gross \$2 50
Price, per doz 25

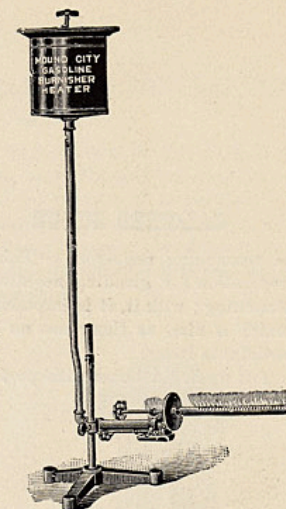
THE MOUND CITY ADJUSTABLE GASOLINE BURNISHER HEATER.

Gives a steady, strong heat, is simple and economical, produces neither smoke nor soot and is easy to regulate.

Can be adjusted to fit almost any burnisher in the market.

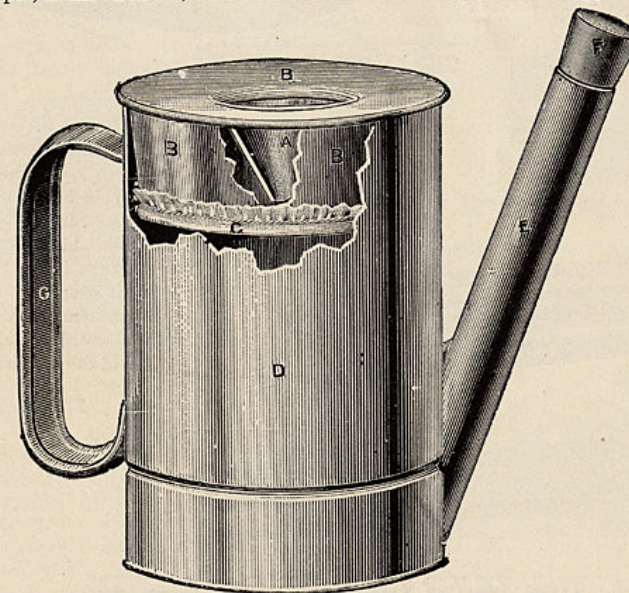
PRICE.

10-inch Burner.....	\$5 00
15 " "	5 50
20 " "	6 00



PEERLESS VARNISH POT AND FILTER.

A tin pot, as shown in cut, with a Filter and Funnel in top; rubber stopper in spout.



This pot has been greatly improved; the whole top is slightly sunk, which makes the funnel complete. The spout is now cut level, allowing the whole (spout and top) to be covered with a single piece of glass instead of the rubber stopper.

Put your varnish in clean, flow your plates, and drain surplus varnish back through the funnel in the top, and you will never be troubled with specks of dirt in it. Pot holds 16 ounces. Price, 50 cents each.

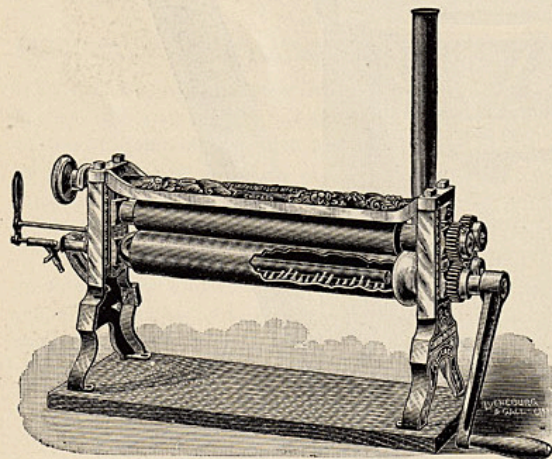
CALCINED FLOUR

for retouching negatives. — This is a preparation for grinding negatives for retouching; with it, it is impossible to scratch a film, as there are no gritty particles in it.

Put up in tin boxes with perforated tops, 25 cents.



THE GLOBE ENAMELER.



Embodies the best features of the quadruplex enameler and the patent hollow roll heaters, and may be heated either with gas or gasoline, as preferred, which should be specified in ordering.

It is geared on the quadruplex system and the heat is communicated directly to the bottom of the burnishing roll.

PRICE.

10 inch.....	\$30 00
15 ".....	40 00
20 ".....	50 00
25 ".....	60 00

OVAL VELVET CASES, FRENCH PRESERVERS.

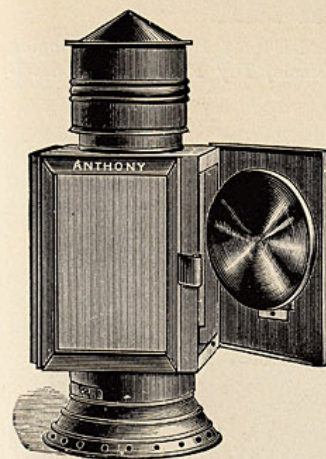
1-16 size, per dozen.....	\$10 00	1-6 size, per dozen.....	\$15 50
1-12 " ".....	11 50	1-4 " ".....	18 75
1-9 " ".....	13 50	Card " ".....	18 00

SPIRIT LAMPS.

Glass, each, 70 cents. Britannia, without sliding tube, each, 75 cents. Britannia, with sliding tube, each, 85 cents.

ANTHONY'S CLIMAX DARK ROOM LANTERN.

PATENTED.



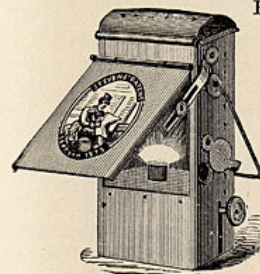
This is truly the best lantern for its price in the market. It has three large illuminating surfaces and reflector. The glass is of the correct non-actinic hue. It will be found exceedingly agreeable to the eye, while perfectly safe for ordinary dry plate development, and it is by all odds the most comfortable kerosene lantern to work by we have yet seen.

The price is \$2 00.

STANDARD OIL LAMP.

The accompanying illustration represents the new oil lamp for use in developing gelatino-bromide plates. It is expressly made for the purpose, and is intended for use with kerosene oil. The chimney is of ruby colored glass of the proper and most desirable tint, and surmounted with a movable top to intercept the upward radiation of the light of the lamp. Price, \$1 50.

Extra ruby chimneys, 90 cents each.



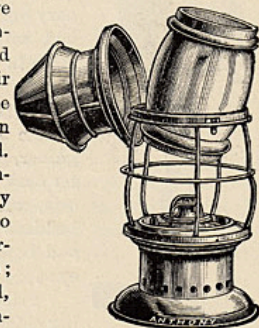
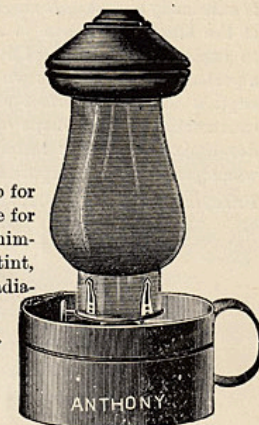
E. A. POCKET RUBY LANTERN.

Used when putting dry plates into the holders, and also when developing them. Price, each, 60 cents.

ANTHONY'S PERFECT DRY PLATE LANTERN.

Amateur photographers and, indeed, professionals have frequently expressed a desire for a compact, safe, and simply constructed lantern for dry plate work. Several have been placed in the market, but either their dimensions were too great, their cost too considerable, or their adaptability too inadequate for the purpose desired. It will be observed that in the Perfect Lantern all the parts are separable, and all are easily and quickly adjusted. It has no hinges or arm-holes to break, and every part of it is instantly and always accessible. Therefore it can be instantly extinguished; it will never crack the chimney; it requires no (hardly any) care to keep it clean; it is impossible to misunderstand it; it will never get out of order; it never needs attention; it requires but little oil; it never ceases to burn when ignited, if the oil cup is filled; it is abundantly wicked; it may be instantly ignited; it is proof against breakage. Price, \$1 50.

Extra ruby chimneys, 60 cents each.



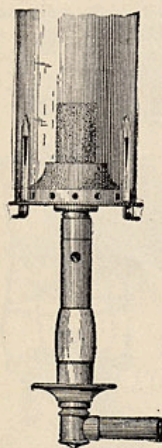
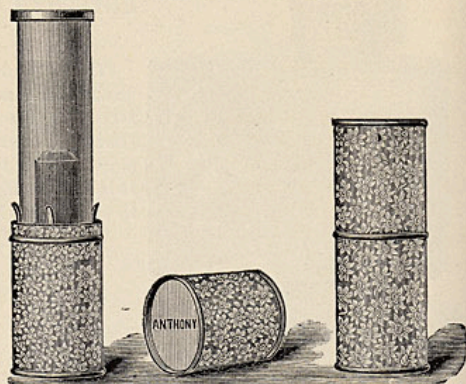
THE TISDELL CANDLE RUBY LIGHT.

The accompanying cut represents the Tisdell Candle Ruby Light for developing the most sensitive Gelatine Dry Plates. Even the Stanley Dry Plates may be developed with perfect safety by its light.

One-half of a common sperm candle is the fuel required, consequently there is no danger of an explosion; no breaking of ruby chimney from over-heating; no oil to spill while traveling; no disagreeable smell while at work in the dark room, and no possibility of smoke. The lamp is always ready for use and nothing to get out of order. Its manipulation is extremely simple. A single glance at the lamp while open is sufficient to explain the method of its use to a perfect stranger. It is without exception the most perfect and *petite* construction in the shape of a ruby developing lamp ever introduced in the photographic market. Its outside measurement when packed for transportation is only 6½ x 2½ inches, and its weight only 12 ounces.

Price, complete \$1 00

Extra ruby chimneys, 30 cents each.



THE ALADDIN DARK ROOM LAMP.

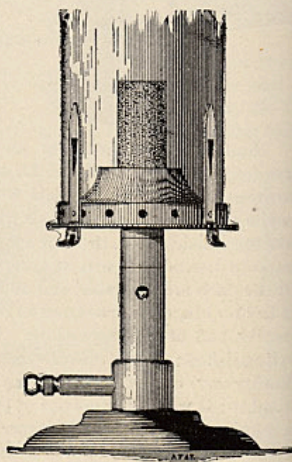
PATENT APPLIED FOR.

This lamp is made for use with gas and may be fitted over any ordinary burner, or, if preferred, may be had with iron base for use on the table in connection with rubber tubing.

It is fitted with a wick and non-actinic glass chimney, which, together, give a beautiful yellow light for dark room use, which is perfectly safe, without smoke or odor, more brilliant than the ordinary ruby light and both pleasant and restful to the eyes.

Price, including non-actinic amber chimney, extra brass tip and box of chemical wicks in wooden box complete, \$3.50. Extra chemical wicks sufficient for one thousand hours' lighting, per box, 35c. Extra non-actinic amber chimneys, each, 30c.

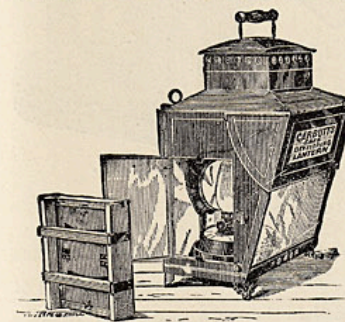
In ordering, please specify whether bracket or table lamp is desired.



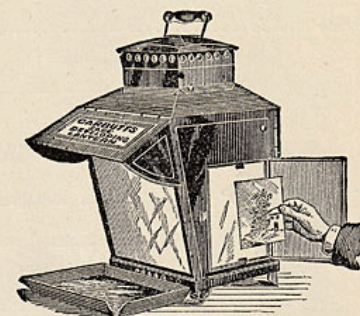
CARBUTT'S MULTUM IN PARVO DRY PLATE LANTERN.

The following are some of the advantages possessed by this lantern: It saves your eyesight. It is simple and easy to manage; nothing complicated, yet has three separate and distinct forms of light. It is adapted for the use of either oil or gas; is about nine inches square by fourteen high, with eight by ten deep ruby glass in front. Each lantern is provided with a coal-oil lamp with improved patent burner, and silvered reflector, which may be revolved in any direction, and operated from the outside. By removing the revolving lamp bed a hole will be found through which a gas burner can be introduced. It is:

1. A safe light for the preparation of gelatino-bromide emulsion.
2. A safe light for the coating of gelatino-bromide plates.
3. A safe light for developing the most sensitive plates, while for preparing developer or doing other work the room can be instantly flooded with white light and as quickly changed to red, giving abundance of light by which to develop the largest sized plates used. The adjustable hood effectually shields the eyes from the glare of the red light.



Lantern arranged for making positives by contact.

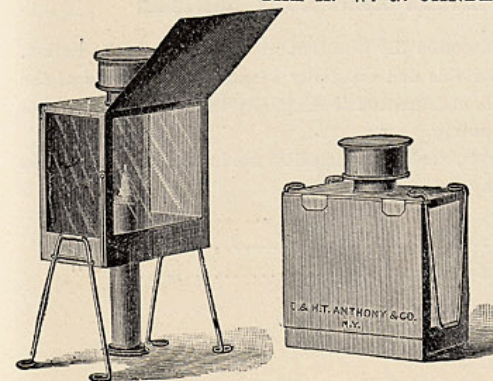


Lantern arranged for developing, and after fixing, examining negatives by opal light.

4. An opal light by which to examine negatives or positives after fixing.
5. A clear transparent light for making positives on glass (gelatino-bromide). This feature is a valuable one.
6. The making of enlarged negatives from gelatine positives placed in front of opal light.
7. The making of photo-micrographs with the clear, transparent light, which can readily be accomplished with the gelatino-bromide plate and the microscope.
8. By the adjustment of condensers and holder for slides and objective in front of the clear light, a very effective magic lantern is formed.

Price \$6 00, boxed ready for shipment.

THE H. W. G. CANDLE LIGHT.



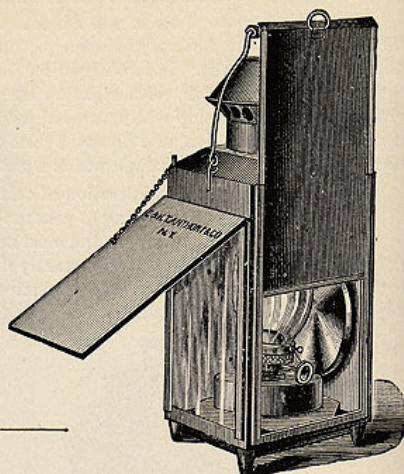
The framework about this candle is covered with both orange and ruby fabric, the combination making a safe and efficient light for the dark room and one which is agreeable to the eyes. It has no glass to break.

Price \$2 00

ANTHONY'S HELIOS DARK ROOM LANTERN.

This is a new lantern for the dark room for those who desire more light than can be had from the ruby lamp. This lantern or lamp will be found to be all that can be desired. The draught is as perfect as can be. It has a glass 6½ x 8½ inches, with a burner capable of great volume of light when desired. It is intended to fill a want long expressed by many, for a good dark room lantern at a reasonable price.

Price \$4 00



ARGAND GAS BURNER WITH RUBY CHIMNEY.

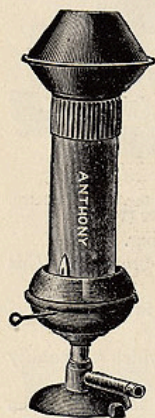
FOR ATTACHMENT TO ANY ORDINARY GAS BRACKET.

By the annexed cut it will be seen that the patent argand burner has been so modified as to intercept the downward radiation of the light of the lamp; protection above is provided in the same manner as with the oil lamp. The chimneys of both gas and oil lamps, it should be particularly remembered, are not made of the ordinary ruby glass, but what is known in the trade as copper-flashed.

Price of the ruby gas burner and chimney, \$2.50.

Extra ruby chimneys, 30 cts. each.

These burners are also manufactured on metal stands with a connection for rubber hose, by which they may be used at any distance from the gas bracket. Price of stand extra, 50 cts.



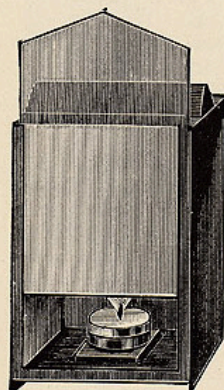
LITTLE GIANT RUBY LANTERN

Is without exception the best lantern of its price in the market. It is light, portable and especially adapted to the wants of the amateur. Its construction is simplicity itself, and the light is brilliant and steady.

Extra lights, ready for immediate use in the lantern, may be obtained at any time.

Price 60 cents.

Extra lights each 05 "



THE "HOLIDAY" DARKROOM LAMP.

SAFE, SMOKELESS, ODORLESS, PORTABLE.

Far Superior to any other Candle Lamp.

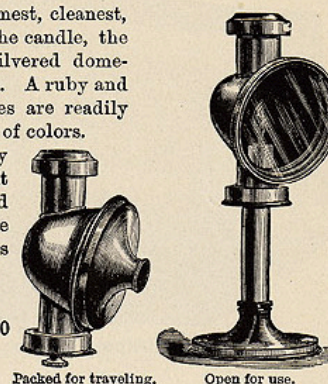
The "Holiday" darkroom lamp is the handsomest, cleanest, and best candle lamp made. A brass tube carries the candle, the light from which is deflected downwards by a silvered dome-shaped reflector, thus relieving the eyes from strain. A ruby and white glass accompanies each lamp. These glasses are readily removable, permitting of the use of any combination of colors.

The lamp is made of spun brass, and is of very handsome appearance. When packed for traveling it is very compact, the base being removed and used as a cover to protect the glass, while the candle tube is pushed into the body of the lamp. No chimneys or exposed glass to break.

No oil, no trimming, no danger.

Price \$5 00

Candles, per box of six, 30c.



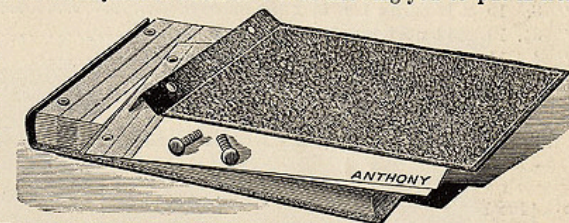
THE "MOREHOUSE ALBUM"

Is the only album that will allow you to bind your mounted photographs.

It is the only album with an adjustable extension, thus allowing you to put in from twenty to thirty mounts.

It opens perfectly flat and at the same time it is perfectly rigid in the back.

It is so constructed that you can take out or put in one or more leaves easily and quickly without disturbing the balance.



FOR MOUNTED PHOTOGRAPHS.

These books are furnished with twenty-five patent gummed stubs to which you can attach your already mounted and finished photographs.

SIZE.	STYLE A. Full Cloth.	STYLE B. Seal Back and Corners.	STYLE C. Full Seal Grain, Heavy Bevel Covers.	Extra Hinges, Package of 25.
6 x 7	\$1 00	\$1 75	\$2 00	\$0 35
7 x 10	1 25	2 00	2 50	45
10 x 12	1 50	2 25	3 00	55
11 x 14	1 75	2 50	4 00	65

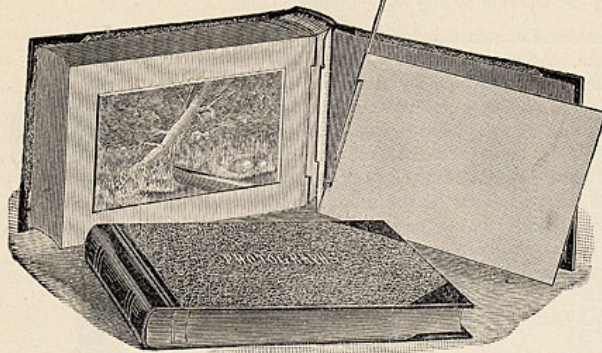
FOR UNMOUNTED PHOTOGRAPHS.

Each book is furnished with twenty-five No. 1 Mounts with perforated stubs attached, so it is only necessary to mount and finish your photograph before putting it into your book.

SIZE.	STYLE D. Bound in Full Cloth.	STYLE E. Bound in Half Leather and Half Cloth Embossed.	STYLE F. Seal Grain Back and Corners, Embossed and Rolled in Gold Leaf.	STYLE G. Full Seal Grain Leather, Best Binding.	Extra Leaves, per doz.
6 x 7	\$1 25	\$1 50	\$2 00	\$2 25	\$0 35
7 x 10	1 50	1 75	2 25	2 75	45
8 x 10	1 75	2 00	2 50	3 00	50
10 x 12	2 00	2 50	3 25	4 50	75
11 x 14	2 50	3 00	4 00	5 50	1 00
14 x 17	3 50	4 00	5 00	7 00	1 50

ECLIPSE ALBUM.

(PATENTED.)



Extra cards for Eclipse Album may be had if desired.

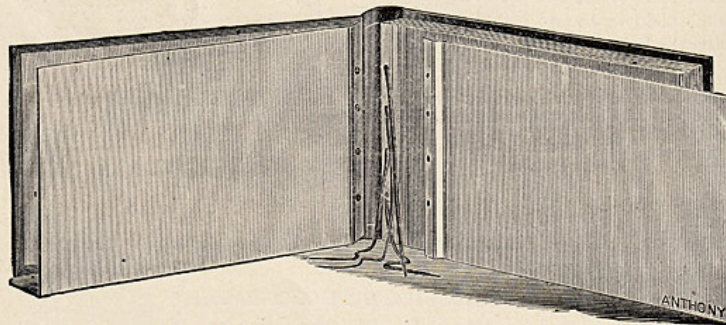
The Eclipse Album, with interchangeable leaves, is one of the most perfect manufactured. Each card mount is *distinctly* independent, and may be taken out or replaced without having to disturb any other leaf or part of album. They are handsomely finished in morocco half leather bound, with gilt title, and enclosed in a neat box.

PRICE LIST.

WITH TWENTY-FOUR COLLINS' CARDS.

No. 1.	6 x 7 cards, for 4 x 5 photographs.....	\$2 25
" 2.	7 x 10 " 5 x 8 "	2 50
" 2½.	7½ x 10 upright.....	3 50
" 3.	10 x 12 cards, for 6½ x 8½ photographs.....	3 75
" 3½.	10 x 12 upright.....	4 25
" 4.	11 x 14 cards, for 8 x 10 photographs.....	4 25
" 5.	14 x 17 " 11 x 14 "	7 00

THE CLIMAX REMOVABLE LEAF ALBUM.



This album is unequalled for convenience, strength, durability and gentility of appearance. Its greatest advantage lies in the fact that its leaves are entirely independent of the book itself and of each other, and one or all may be removed from the covers, and the whole or a part replaced or new leaves substituted with perfect ease. The covers and heavy fly leaves front and back constitute the binding, the latter being very strongly made with linen guards, which are provided with four holes and lacings; the cards are provided with a jointed linen guard which is punctured to match lace holes in fly leaves, and the whole operation of lacing one or more leaves in this way is simplicity itself.

By using this album, prints may be mounted on either or both sides of card, and may also be burnished without injury to the album, which is alone a most important feature.

The guards being made with a patent double flexible joint, admit of the album being opened in a perfectly flat position without difficulty, and the ease of binding makes possible a classification and re-arrangement of subjects from time to time.

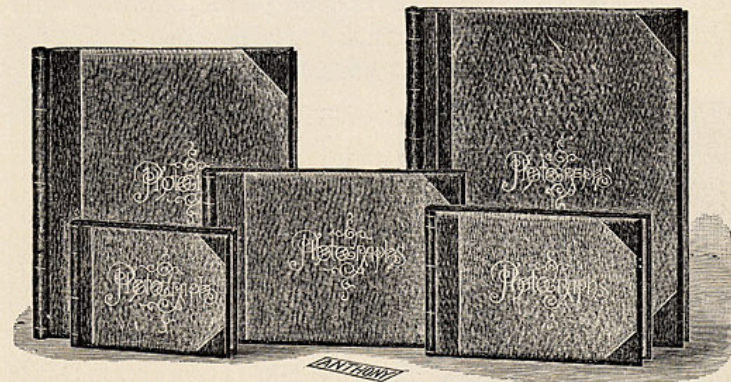
Handsomely bound in full plain cloth, with linen laces, containing 25 Collins' cards,

Size of Cards.	Price.	Size of Cards.	Price.
6 x 7, for 4 x 5 print.....	\$1 25	11 x 14, for 8 x 10 print.....	\$2 50
7 x 10, " 5 x 8 "	1 50	14 x 17, " 11 x 14 "	3 50
10 x 12, " 6½ x 8½ "	2 00	16 x 20, " 14 x 17 "	6 75
Bound in cloth, with leather back and corners, with gold rules and gold side stamp and with silk laces, containing 25 Collins' cards, each—			
Size of Cards.	Price.	Size of Cards.	Price.
5 x 6, for 4 x 5 print.....	\$1 35	11 x 14, for 8 x 10 print.....	\$3 00
6 x 8, " 4½ x 6½ "	1 45	14 x 17, " 11 x 14 "	4 00
7 x 10, " 5 x 8 "	1 75	16 x 20, " 14 x 17 "	7 25
10 x 12, " 6½ x 8½ "	2 50		

EXTRA LEAVES FOR CLIMAX REMOVABLE LEAF ALBUM—

Size.	Price.	Size.	Price.
5 x 6, per package of one dozen.....	\$0 38	10 x 12, per package of one dozen....	\$0 75
6 x 7, " " " "	40	11 x 14, " " " "	90
7 x 10, " " " "	50	14 x 17, " " " "	2 00
		16 x 20, per package of one dozen.....	\$2 40.

ANTHONY'S AMATEUR ALBUMS.



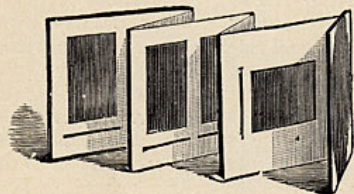
For preserving prints from negatives of one's own work these albums form a handsome and interesting addition to the library table. They are very beautifully bound in cloth, with gilt stamp on side, the corners being finished with leather. The purest quality of card-board is used in their manufacture, made expressly for mounting photographs, and free from any chemicals injurious to prints.

Size of Card.	Plain, each.	With Gilt Lines, each.
5 x 6 for 3½ x 4½ pictures.....	\$0 75	\$1 00
6 x 7 " 4 x 5 "	1 10	1 10
7 x 10 " 5 x 8 "	1 30	1 25
10 x 12 " 6½ x 8½ "	1 95	1 50
11 x 14 " 8 x 10 "	2 40	2 00

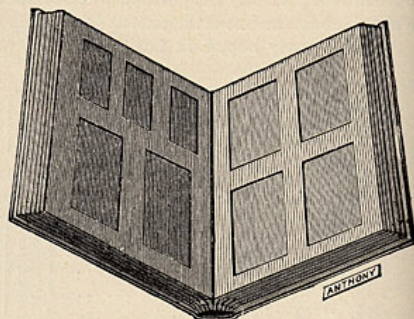
ANTHONY'S DISPLAY ALBUMS.

A splendid line lately introduced, very neatly gotten up, and admirably adapted for the purpose. They are made in two styles, opening from one end only and also from both ends, the latter being represented in the wood-cut as above. The leaves, which are of stout, pearl-tinted boards with beveled openings, are hinged on heavy cloth; the covers are thick, and made in the style generally known as half-bound. Those opening from one end only have double-jointed hinges.

These albums will undoubtedly prove very acceptable to the fraternity and the public, as they afford a ready means of presenting in rapid succession the different styles of pictures a photographer may have occasion to exhibit to his patrons. Deep beveled openings afford protection to the pictures and prevent them from being rubbed.



Nos. 1, 2, 3 and 4.



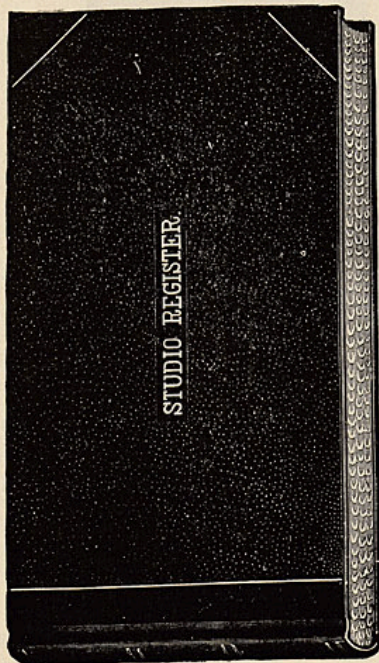
No. 5.

Substantial in construction, attractive in appearance and moderate in cost, the trade will not be slow in recognizing their value.

No. 1.	holding	10 cabinet	pictures, each.....	\$1 50
" 2,	"	16 "	and 2 panel pictures, each.....	2 00
" 3,	"	24 "	4 panels, and 2 7½ x 13 panel pictures, each.....	3 50
" 4,	"	36 "	pictures, 10 panels, 2 7½ x 13 and 10 card openings, each...	5 00
" 5,	"	56 "	8 panels, 2 7½ x 13 and 12 card openings, each.....	9 00

No. 5 is bound in book form, and has the extra-strong double-jointed hinges. The name of the proprietor or studio may be embossed in gilt on the cover, at reasonable price, if desired.

STUDIO REGISTER.

[illegible]

The full size of sheet, as used in the book, is 8½ x 14 inches ; there are 20 lines on a page, all pages alike. The books are well bound, with leather back and corners, cloth sides and index in front. No well-regulated gallery should be without one of these very useful books. Use it a week and you would not be without it for ten times the price. They are for sale by all wide-awake stock dealers, at the following prices :

No. 2.	160 pages, each.....	\$2 75	No. 4.	320 pages, each.....	\$4 25
" 3.	240 " ".....	3 50	" 5.	400 " ".....	5 00

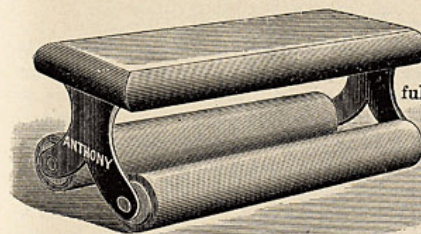
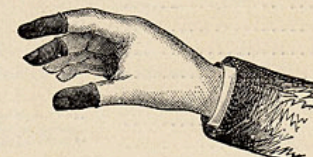
A sample leaf will be mailed on application.

PURE RUBBER FINGER TIPS

SPECIALLY MADE FOR PHOTO USE. A PERFECT PROTECTION AND RELIEF FOR THE FINGERS.

The only economical means ever offered against the discoloration of nails and fingers from acids and chemicals. A great improvement over the expensive and clumsy glove, as they do not impair the sense of touch, but rather increase it. Very easily applied or removed.

Per set of three\$0 15



THE SUCCESS PRINT MOUNTER.

The accompanying illustration describes it fully.

6 inch.....	\$1 00
12 inch.....	1 50

ISOCHROMATIC AND ORTHOCHROMATIC DRY PLATES.

The rapidly increasing popularity of Isochromatic and Orthochromatic plates for use either with or without color screens, for the more accurate rendition of color values, has led to the production of the Cramer Isochromatic Plates, at the following prices :

3½ x 4½	\$0 55
4 x 5	80
4½ x 5½	90
4½ x 6½	1 10
4½ x 6½	1 20
5 x 7	1 40
5 x 8	1 50
6½ x 8½	2 00
8 x 10	3 00
10 x 12	4 50
11 x 14	5 85
14 x 17	10 80
16 x 20	15 00
17 x 20	15 60
18 x 22	18 50
20 x 24	22 00

The Carbutt and Eagle Orthochromatic Plates are at same prices as the regular brands of ordinary dry plates.

BLAIR'S FILM

Is made in rolls for 25, 50 or 100 exposures without a joint or seam, and is wound on a patented device, adapting it to use in other roll-holder cameras as well as the Hawkeye and Kamaret.

It is a well-known fact that the finest photographs are obtained by printing through ground glass. Blair's film has a delicate ground-glass surface on the coated side, and can be soaked for an indefinite period in the developer, the fixing bath or the soaking solution, and never frill a particle. Thus, an under-exposed negative need never be removed from the tray until the development has been carried to the last degree.

The ground-glass surface but slightly affects the transparency of the film, and makes no appreciable difference in printing. The emulsion is extremely rapid.

PRICE LIST.

Width.	Length.	Equal to following Exposures.	Price.
3½ inches	108 inches	25 3½ x 4½	\$1 20
3½ "	215 "	50 3½ x 4½	2 40
3½ "	90 "	25 3½ x 3½	1 10
3½ "	180 "	50 3½ x 3½	2 20
4 "	130 "	25 4 x 5	1 65
4 "	255 "	50 4 x 5	3 30
4 "	380 "	75 4 x 5	5 00
4 "	505 "	100 4 x 5	6 60
4½ "	135 "	40 4½ x 3½ or 25 4½ x 5 or } 22 4½ x 5½ or 20 4½ x 6½ }	1 65
4½ "	265 "	80 4½ x 3½ or 50 4½ x 5 or } 48 4½ x 5½ or 40 4½ x 6½ }	3 30
4½ "	505 "	100 4½ x 5	6 60
5 "	180 "	44 5 x 4 or 25 5 x 7 or 22 5 x 8	3 00
5 "	355 "	88 5 x 4 or 50 5 x 7 or 44 5 x 8	6 00
5½ "	180 "	25 5½ x 7	3 00
5½ "	355 "	50 5½ x 7	6 00
6½ "	218 "	25 6½ x 8½	4 40
6½ "	435 "	50 6½ x 8½	8 80
8 "	255 "	25 8 x 10	6 60
8 "	505 "	50 8 x 10	13 00

CARBON TISSUE.

Made by the Autotype Co., London, England. Used in making carbon prints, transparencies, etc., giving permanent pictures.

No.	Colors.	Size of Band.	Price per Band.
100.	Standard Brown	2½ x 12 ft.	Sold in Bands only, \$3 00
103.	Warm Black	"	" 3 00
104.	Engraving Black	"	" 3 00
105.	Sepia	"	" 3 00
106.	Red Chalk	"	" 3 00
115.	Lambertype Purple (for Portraits)	"	" 3 00
107.	Special Trans'y Black	2 x 12 ft.	" 4 00
86.	Autotype Final Support	2½ x 12 ft.	" 1 60
112.	Sawyer's Temporary Support, Sheets 18 x 23 in., per sheet	"	0 25
112.	" " " " " "	dozen sheet	2 50
Johnson's Actinometer with Sensitive Paper			1 25
Waxing Compound (for Solution in Turpentine), cake			0 25

The Temporary Support upon which are treated pigment prints from ordinary negatives,



permits of the prints being developed upon it with the same ease and facility as did the Single Transfer, of which this takes the place. This support can be used an indefinite number of times, only requiring to be rubbed over with the Waxing Solution to insure the stripping of the print from its surface.

The Final Support is a special paper coated with a gelatinous emulsion of a permanent white or tinted pigment. It supersedes the old Double Transfer Paper by reason of its greater efficiency and the ease and simplicity of working with it. It will keep good for an indefinite time, does not require hot water, and forms a permanent basis for the pigment print.

ZIG-ZAG TRANSPARENCY FRAMES.

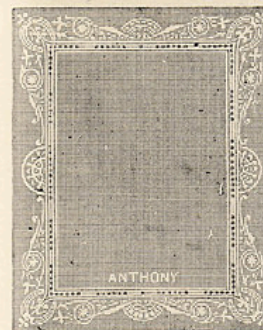
PLAIN NICKEL.

These by many are preferred to the regular styles, on account of the ease in fitting glasses of different thicknesses. All are made with ring in each corner, to hang either vertically or horizontally, as represented in cut illustrative of the Antique Silver.

4 x 5, per doz.	\$4 00	6½ x 9, per doz.	\$5 50
5 x 8, " "	4 50	8 x 10, " "	6 00
6½ x 7½, " "	4 50	10 x 12, " "	7 50
6½ x 8½, " "	5 25	11 x 14, " "	9 00

PLAIN GROUND GLASSES FOR TRANSPARENCIES OR CAMERAS.

4 x 5, each.	\$0 10	6½ x 8½, each.	\$0 26
4½ x 6½, " "	0 13	8 x 10, " "	0 32
5 x 8, " "	0 18	10 x 12, " "	0 50



ETCHED GROUND GLASS FOR TRANSPARENCIES.

These glasses are etched with handsomely figured borders, and the 8 x 10 and 10 x 12 sizes may be had in either of two or three designs. The other sizes are only supplied in one pattern.

6½ x 8½ glass for picture 4½ x 6½	\$0 33
8 x 10 " " 5 x 7	0 42
10 x 12 " " 7 x 9	0 57
11 x 14 " " 6½ x 9½	0 75

GROUND GLASS FOR TRANSPARENCIES WITH COLORED ETCHED BORDER

has the ordinary ground glass center, but with a colored design etched around the border, making a very attractive window transparency. It is etched on the 8 x 10 size only, but may be had in either of three different patterns.

Price.....60 cents each.

DIAMONDS.

A good Diamond is an important consideration. Ours are all selected. Ebony, plain, \$3 00; ebony, with key, \$3 50; ivory, with key, \$5 50.

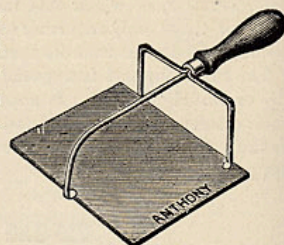
ANTHONY'S ADJUSTABLE DEVELOPING FORK.

As seen by the cut, this is for holding the Dry Plate during developing and washing. It entirely prevents soiling of hands, and by its aid the plate is easily examined and returned to solution, saving necessity of ridges and elevations on bottom of tray to prevent capillary attraction. They are made in two sizes, nickel plated.

No. 1 for plates $3\frac{1}{4} \times 4\frac{1}{4}$ to 5×860 cents.

No. 2 " 4×5 " 8×1090 "

Can be sent by mail.

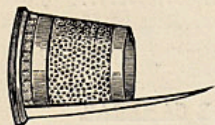


THE SKELETON NON-ADJUSTABLE DEVELOPING FORK.

These resemble the adjustable forks in shape, but are rigid. They are made of nickel wire. For 4×5 or 4×8 plates.....30 cents.

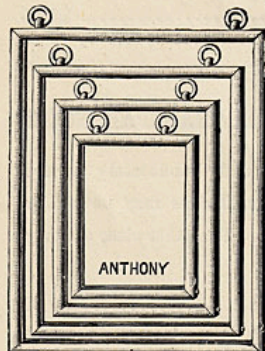
THE EFFICIENT PLATE LIFTER.

This Plate Lifter is very near like an ordinary open end thimble with a pointed piece of metal soldered securely to it, as shown in the illustration. Where a number of plates are developed in one dish, this Plate Lifter is not only a convenience, but quite a necessity. Price, 15 cents each.



PATENT TRANSPARENCY FRAMES.

These are made with one side removable, enabling the transparency to slide into the frame easily and without danger of breaking. They are also made to hang either vertically or horizontally.

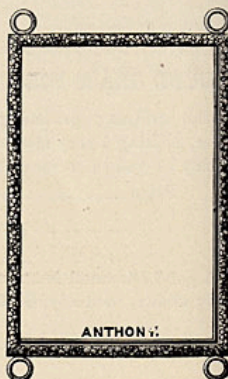


4×5 , per doz.....	\$3 36
5×7 , "	3 60
5×8 , "	4 08
$6\frac{1}{2} \times 7\frac{1}{2}$, "	4 56
$6\frac{1}{2} \times 8\frac{1}{2}$, "	4 56
$6\frac{1}{2} \times 9$, "	5 25
8×10 , "	5 76
10×12 , "	9 00
11×14 , "	10 80

ANTIQUA SILVER TRANSPARENCY FRAMES.

These Frames are handsomely embossed in a heavy leaf pattern and present a very rich and beautiful appearance. They are so arranged with a loop at each of the four corners that they may be used either vertically or horizontally.

4×5 , per doz.....	\$3 75
5×8 , "	4 50
$6\frac{1}{2} \times 7\frac{1}{2}$, "	5 00
$6\frac{1}{2} \times 8\frac{1}{2}$, "	5 00
$6\frac{1}{2} \times 9$, "	5 75
8×10 , "	6 25
10×12 , "	9 50
11×14 , "	11 25



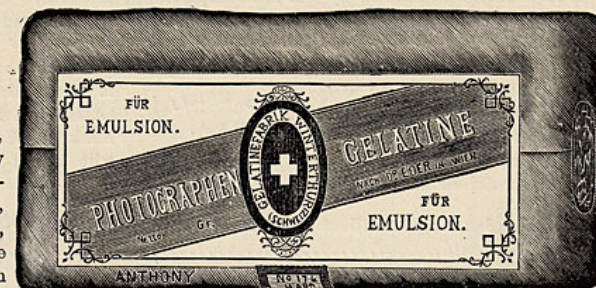
VARNISH FOR GELATINE DRY-PLATE NEGATIVES.

In consequence of the peculiarity exhibited by gelatine negatives, it seems to be desirable that any varnish used upon them should be as hard and as insoluble as possible. We have consequently prepared and are now ready to furnish a proper varnish at the same rate as our other negative varnishes. It is very clear, does not impart any color to the negative, and will not soften in the heat of the sun.

Price, per 6-ounce bottle, 40 cents; pint, \$1 00; quart, \$1 90.



IMPROVED PHOTOGRAPHIC GELATINE.



The above gelatine, which is especially made for dry-plate emulsion, is unbleached, of the greatest strength, and guaranteed quite pure. It has been highly recommended by Dr. J. M. Eder at the meetings and in the journals of the Photographic Association of Vienna, and by other eminent authorities.

Manufactured by the Gelatinefabrik Winterthur, Switzerland.

Gelatine, Swiss, per lb. package..... \$1 25

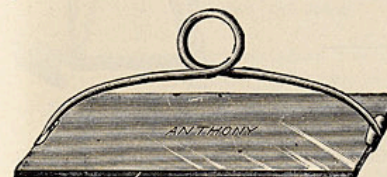
PHOTOGRAPHIC GELATINE.

The various brands of Gelatine mentioned below we can supply at the following prices:

Cox's, per dozen.....	\$3 00
Coignet, gold brand, per lb.....	1 10
Magdebourg, per package.....	1 00
Nelson's No. 1 Photo Gelatine, shred, in $\frac{1}{2}$ lb. parcels, per lb.....	1 38
" " 2 " " " in $\frac{1}{2}$ lb. " "	1 00
" " 3 " " sheets, in 1 lb. " "	65
" X Amber " " loose, in cases, 112 lbs., "	1 20
" Special X Patent Opaque, loose, per lb.....	2 50
Heinrich's Celebrated Gelatine, per lb.....	1 25
Drescher's, per lb	1 25

THE PERFECT PLATE HANDLE.

Holds the plate firmly and with absolute safety. Is snapped on with a single downward pressure, and released as easily. Does not raise the plate up in the developing tray. Does not scratch the film when being put on. Does not touch the film when on. Will pick dry plates out of the box in the dark room with perfect ease. Makes a most convenient drying support when the negative is fixed and finally washed.



Made in four sizes, of spring wire, handsomely nicked. Size No. 1 is for plates $3\frac{1}{4} \times 4\frac{1}{4}$, $4\frac{1}{4} \times 6\frac{1}{2}$, or any plates having a $4\frac{1}{4}$ -inch measurement. Size No. 2 is for 4×5 , 5×7 , 5×8 , or any plates having a 5-inch measurement. Size No. 3 is for $6\frac{1}{2} \times 8\frac{1}{2}$, $4\frac{1}{4} \times 6\frac{1}{2}$, or any plates having a $6\frac{1}{2}$ -inch measurement. Size No. 4 is for 5×8 , 8×10 , or any plates having an 8-inch measurement. Larger sizes made to order.

Price.....25 cents each.

COTTONS.

Anthony's Negative, per oz.....	\$0 50
No. 1 and No. 2 Soluble, per oz.....	50
Positive, per oz.....	50
Snowy, per oz.....	1 00
Glacé Cotton, per oz.....	50
Climax " ".....	75
Special " ".....	1 00
Flash Cotton for the Piffard Magnesium Flash Light, per oz.....	50
Papyroxyline, per oz.....	1 00
Hance's Silver Spray Negative, per oz.....	50
" Delicate Cream Negative, per oz.....	75
Filtering Cotton, per package.....	65
Absorbent Cotton, 1 lb. package, 40 cents; 8 oz., 25 cents; 4 oz. box, 15 cents; 2 oz..	10

COLLODIONS.

Anthony's Negative, per lb.....	\$1 25
New " ".....	1 25
Positive, per lb.....	1 25
Instantaneous, per lb.....	1 25
Dry, per lb.....	1 25
New View, per lb.....	1 25
New Ferrottype.....	1 20
Glacé, per quart.....	1 50
Newton's Quick, per lb.....	1 30
Anthony's Porcelain, per 8 oz. bottle.....	1 50
Coonley's Portrait Collodion, per lb.....	1 25
Lewis & Holt's Negative and Positive, per bottle.....	60

COONLEY'S COLLODION.

Prepared especially for portrait work, and, in the opinion of Mr. Coonley, rendering much richer results than anything attainable with the gelatino-bromide dry plates. A noticeable feature is its extreme sensitiveness and rapidity in working, and the delicacy of the resulting lights and shades, the color imparted to the negatives being admirably adapted for yielding rich prints. Price, \$1 25 per lb.

VARNISHES.

Flint, per 6 oz. bottle, 40 cents; pint, \$1 00; quart.....	\$1 90
Mountfort's, " " 40 cents; pint, \$1 00; quart.....	1 90
Special, " ".....	40
Retouching, " " 50 cents; pint, \$1 25; quart.....	2 25
Diamond, " " 35 cents; pint, \$1 00; quart.....	1 75
Dry Plate, " " 40 cents; pint, \$1 00; quart.....	1 90

THE H. T. A. DEVELOPER.

FOR WET PLATES.

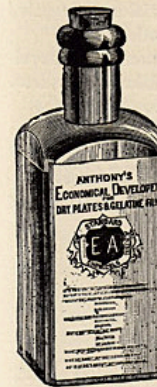
We especially recommend this Developer as a very great help in every way to photographers generally.

1-2 gallon packages..... 8 cents. | 1 gallon packages..... 15 cents.

FERROUS OXALATE DEVELOPER.

READY FOR USE.

For dry plate development, and specially adapted for developing Anthony's Reliable Bromide Paper. Price per package (two bottles), 50 cents.

ANTHONY'S NEW ECONOMICAL DEVELOPER.

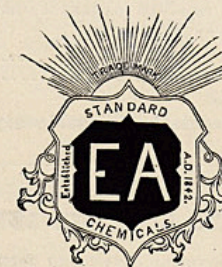
This developer is put up in a highly concentrated form, keeps well, and will perform nearly twice the work of any similar developer. Being in one solution, its management is easily understood by the beginner, who is often "all at sea" with developers put up in separate solutions. It stands unrivaled as a dry plate developer, and is extremely quick in action. It can be used with any brand of plates, giving beautifully soft negatives. To those who are desirous of avoiding the trouble of preparing their own developers, it will recommend itself on the very first trial; and that it will figure as a valuable item in the traveler's photographic outfit goes without saying. All who have used this developer thus far express themselves as delighted with it. With this solution under-exposed plates will bear prolonged and forced development without showing the least tendency to become veiled or hazed in the shadows, as is so common with most developers.

Price, per bottle, 40 cents.

COOPER'S CONCENTRATED DEVELOPER.

This Developer is from another formula put up in concentrated form, which also produces beautiful negatives and allows very considerable latitude of exposure; it never becomes muddy and can be used repeatedly with fine effect, over-exposed plates producing better results if developed in old Developer than new. It is sold ready mixed and only needs to be diluted with water.

Be sure that the label bears
the Trade Mark.



None other is genuine.

Fifty 8 x 10 plates can be developed with one bottle of Developer.

Price, per bottle..... 50 cts.

"ON! STANLEY ON!"



TRADE MARK

STANLEY'S CONCENTRATED DEVELOPER.

In package containing 16 ounces Concentrated Developer, in 8-ounce bottles, one having the pyrogallie solution, the other the alkali, thus enabling the operator to proportion them as desired.

The contents of each bottle are in highly concentrated form and require merely the addition of water to reduce to normal strength.

Price per package.....50 cents.

ANTHONY'S HYDROCHINONE DEVELOPER.

READY FOR USE.

The excellent qualities of this article, and its convenience for use, are possessed by no other ready prepared Developer in the market.

For use, it is simply poured into the tray, and when development is finished, may be filtered and returned to the bottle. This can be repeated many times. It yields a negative of fine printing color, and without fog. Full directions accompany each bottle.

Dr. H. W. Vogel, of Germany, writes in the highest terms of Hydrochinone as a Developer, praising particularly its advantages for negatives of widely differing relative exposures.

Price, per eight-ounce bottle..... 30 cts.
" pint bottle..... 55 "

ANTHONY'S IMPROVED CONCENTRATED HYDROCHINONE DEVELOPER,

A highly concentrated form of the above developer, which is put up in 2-ounce bottles, and ready for instant use by the addition of 6 oz. of water.

Price per bottle..... 30 cents.

NEWTON'S GIANT DEVELOPER.

FOR GALLERY OR OUT-DOOR WORK.

This new developer, introduced by Prof. Henry J. Newton, is unlike any similar agent, inasmuch as it works from the first, until all used up, with full vigor, and does not slow up after developing a few plates as most developers are apt to do.

The "Giant" produces negatives with the greatest brilliancy, clear shadows, and a splendid, quick printing color.

It is admirably adapted to general work, yielding the most brilliant negatives, transparencies, or bromide prints. Perfect freedom from stain with rapidity of action, and a very strong tendency to do what is most desired of a developer, *i. e.*, continue its action until the development is completed, combine to make it just what is required for the photographer, either professional or amateur.

Put up in 8-ounce bottles, price..... 30 cents.
16-ounce bottles..... 55 "

Full directions with each bottle.

No preparation or dilution is required. It is sold ready for use.

ANTHONY'S EIKONOGEN DEVELOPER

is manufactured from the most powerful developing agent known, and its results are of a beautiful bluish black color, which renders it easy to judge of the quality of the negative. By its use, the time of exposure may be made considerably less than with any developer now in use, and the resultant negative will be found to be full of detail, with the high lights crisp and brilliant.

It is prepared in solution ready for use, and its keeping qualities are excellent. It may be used several times over, and for all but very much under-exposed plates, old developer is better than new.

Price, per 8 oz. Bottle..... 30 cents. | Price, per 16 oz. Bottle..... 55 cents.

DR. ANDRESEN'S NEW FIXING SALT.

Sold in cans, is very handy for the traveler. Dissolved in water it gives a fixing bath which remains clear for months. Pyro-developed negatives come from it free from all stain.

PRICE.

One pound can.... 40 cents. | Half pound.. 26 cents. | Quarter pound.. 16 cents.

CRISTALLOS DEVELOPER.

Is put up in dry form in packages suited to make either 16 or 32 ounces of developer ready for use. It is packed neatly in paper boxes well sealed, each box containing some loose powder and three tubes of chemicals. It is only necessary to dissolve the loose powder first and then the contents of the bottles or tubes in the requisite quantity of water, and the developer will be ready for use. It is very active and vigorous in its action, and yields negatives that are strong and brilliant, combined with softness and delicacy. Each mixture suffices for a large number of negatives, and keeps well in the solution.

Package sufficient for 1 pint..... 80 cents. | Package sufficient for 1 quart..... \$1 30

ANTHONY'S DEVELOPING POWDERS.*Economical and Convenient.*

These powders are put up in dry form, and in such a way that the contents of an envelope only needs to be added to 2 ounces of water when the developer is ready for immediate use, and may be used repeatedly.

Each package contains 1 dozen Envelopes of the dry powder, which is sufficient to develop a large number of plates and which is not subject to deterioration, but which will keep indefinitely in the dry form.

Price per package of 1 dozen..... 50 cents.

CLIMAX DEVELOPER.*For Dry Plates and Films.*

This developer possesses every good quality that can be desired. It is very effective and yields negatives of great brilliancy combined with softness, bringing out the finest details. Being in concentrated form, it merely requires the addition of water and bromide potassium. In this diluted form it can be used several times before being exhausted. It will not stain the negatives, and any degree of intensity can be produced. It is equally good for instantaneous or time exposures. Full directions accompany each bottle.

8 ounce bottles, each..... 30 cents. | 16 ounce bottles, each..... 55 cents.

CRISTALLOS AQUA VERNIS,*Or Antiseptic Negative Varnish for Film Negatives.*

Is of great value to prevent their curling and to render them flexible at all times. Film negatives treated with this varnish may be kept serviceable in any climate. It is put up in boxes of sufficient quantity to make 8 ounces of solution, which may be used repeatedly.

Price per box..... 80 cents.

ALBUTONE.*For Toning and Fixing in one bath prints on Albumen Paper.*

This solution is prepared for immediate use, and works equally well with freshly silvered or ready sensitized paper, producing rich, warm tones. The prints require only to be washed after toning and the solution may be used repeatedly.

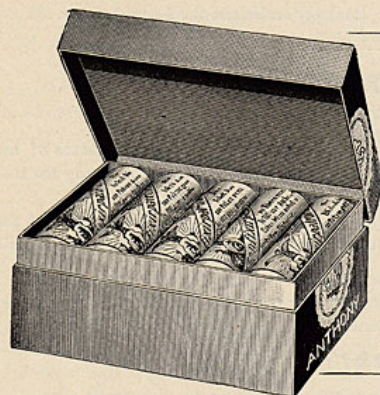
Price per half pint bottle..... 40 cents.

EIKONOGEN PATRONEN.

A READY PREPARED EIKONOGEN DEVELOPER IN DRY POWDER.

These Patronen or Tubes contain the Eikonogen and all necessary Developing Agents, merely requiring the addition of Water. They are sold in boxes containing Ten Tubes, each one of which will make $3\frac{1}{2}$ ounces of Developer.

Price, per box.....\$1 20

**TONIFIXIR PATRONE.**

Cartridges containing the materials for a combined toning and fixing solution in dry form. For use, they require only to be dissolved in water. They are put up in boxes of 10 cartridges, or may be had singly and in either of two sizes, as follows: No. 1, cartridge makes $3\frac{1}{2}$ ounces in solution; No. 2, cartridge makes 8 ounces.

PRICE.

No. 1.	Per box of 10....	\$1 80....	Each, \$0 25
" 2.	" " "	4 00....	" 0 50

ANTHONY'S ARISTOTYPE TONING AND FIXING SOLUTION.

This single solution for toning and fixing prints on "Aristo," or Aristotype Paper, yields most brilliant results, and is so easily manipulated that no skill is required. The Aristotype Paper is printed under the negative until it is of very reddish tone. The print, on being immersed in the toning and fixing solution, begins to change almost immediately; the reddish tint becoming sepia, then purplish, and if left long enough, a rich blue-black tone. This entire operation takes but a few minutes, and when the desired color has been reached, the prints should be removed from the solution and washed in clear water. It is of great importance that they be well washed, and if in several changes of water—ten minutes in each—it will be all the better. Spread on a sheet of paper, face up, and let them dry spontaneously.

A number can be toned and fixed at same time, but must be watched carefully, and constantly turned, to stop the operation when the desired color has been obtained.

This solution is put up in bottles containing 8 ounces, which can be used over and over until action ceases.

Price per bottle..... 40 cents.

ARISTOTONE,*Specially adapted for Collodion Emulsion Papers,*

Is a new combined softening, toning and fixing bath, giving fine, warm tones on "Aristo," or any collodion paper. By its use all preliminary softening is dispensed with. All curling tendency is destroyed, the toning proceeding slowly, thus ensuring complete fixation, and, consequently, absolute permanency. This solution may be used repeatedly. Should it become turbid, allow to settle, decant, and use clear liquid.

Price, per bottle.....40 cents.

ANTHONY'S COMPOUND TONING POWDERS.

Save time and hence money. The solution is made ready in a few moments, and can be used by any one. Try them and you will continue to use them. They are put up in

Boxes of 12 powders, price	\$0 15
" 24 " "	25
" 48 " "	40

DIRECTIONS FOR USING.—Dissolve one bottle of Anthony's Dry Gold in $7\frac{1}{2}$ ounces of pure water.

TO USE.—Dissolve one of the packages of toning powder in 7 ounces of lukewarm water, and add 1 ounce of the gold solution. As the prints exhaust the solution, add more of the gold and powder.

This is an article of real merit, as those using will testify.

ANTHONY'S DEVELOPING POWDER.

A new form of dry developer which is all ready mixed and requires only to be combined with water in proportion of one ounce to three ounces of water, to render it fit for use. It will be found very convenient for use by tourists, from the fact that if spilled there is no staining, as would result with a liquid developer. This developer is put up in glass bottles in three sizes.

1 lb. Bottle.....	75 cents.	|	$\frac{1}{2}$ lb. Bottle.....	40 cents.
$\frac{1}{2}$ lb. Bottle.....			$\frac{1}{4}$ lb. Bottle.....	25 cents.

ANTHONY'S TONING AND FIXING SOLUTION,

for the Bradfish Aristotype Paper, tones and fixes the prints in the one bath and gives permanent results of great brilliancy and in any desired tone of color. It is put up in 8-ounce bottles.

Price, per bottle..... 40 cents.

ANTHONY'S COMPOUND TONING TABLETS.

For convenience in toning silver prints these tablets will be found unequaled. One tablet dissolved in 7 ounces of water and combined with $\frac{1}{2}$ ounce of ordinary gold solution makes a toning bath which will produce beautiful prints and save the operator much time in preparation.

24 Tablets in bottle..... 25 cents per bottle.

ACID SULPHITE OF SODA.*For Use in the Fixing Bath.*

Two ounces of this solution added to one quart of the ordinary hypo bath (1 to 4) reduces the time of fixing very considerably, and gives exceptionally clear and stainless negatives.

This material can also be used as a preservative of pyro, hydroquinone or eikonogen in developers, but not in those developers where all the ingredients are in one bottle. In other words, it entirely replaces the use of ordinary sulphite of soda in the two solution developer.

Pint bottle..... 40 cents.

DRY PLATE SAFETY BOX.

In outward appearance resembles an ordinary negative box, though not so deep; but within, instead of grooves, it has a close-fitting cover lined with black velvet, so as to guard the plates against any possible reflections. These may be removed from the original packages, that should always be opened in the dark room, and safely kept in this box until transferred to the plate holder.

Price, 4 x 5, \$1 00; 5 x 8, \$1 25; $6\frac{1}{2}$ x $8\frac{1}{2}$ or 8 x 10, \$1 50.

PAPIER MACHÉ WASHING BOXES

Are unsurpassed for durability, economy, lightness and ease of handling. They are very strong and thoroughly practicable in every way.

PRICES.

8 x 10 2 25

MOODY'S DOUBLE FOUNTAIN NEGATIVE WASHER.

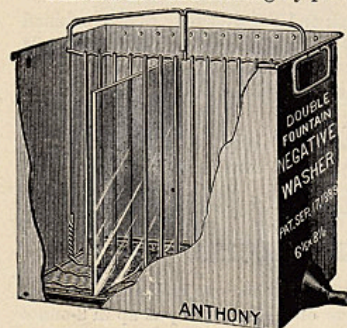
This is a new and thoroughly practicable arrangement for washing negatives and consists of an outer box of heavy metal, provided with a tube at bottom, for attachment of rubber hose, which distributes the water through perforated pipes running lengthwise of the box, the perforations of which are on the inside of pipe and at such an angle to each other, as to cause the streams of water to cross each other in an upward direction in the middle of the box, which results in a constant upward current to the overflow pipe, thus insuring a perfect elimination of free chemical agents, from the negatives.

A removable wire rack, as shown in the cut, serves to hold fifteen negatives in an upright position within the box.

These negative washers are made in three sizes only, but may be used for any size of plate smaller than the one named, without adjustment.

5 x 8..... \$4 50 | 6½ x 8½..... \$5 00
8 x 10 \$5 50

Rubber hose and coupling for same, \$1 50 extra.



CIRCULAR PRINT WASHER.

This is made of zinc, with perforated bottom, cut funnel-shape, to prevent any hypo from rising in the trough. Under the bottom is a well, to which is affixed a siphon, to carry off the water.

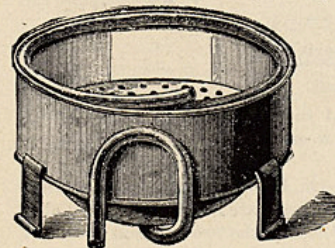
By attaching a hose from the hydrant to the pipe on upper edge of the washer, the water flows freely, giving a circular motion to it in the washer, keeping the prints in lively circulation. When the water has become deep enough to start the siphon, it will gradually empty the bowl and carry off the water almost entirely. The siphon will then cease operating and the washer become refilled.

This operation will continue as long as may be desired, and is automatic.

They are made in three sizes as follows:

14 inches diameter Price each, \$4.00
18 " " " " 6.00
24 " " " " 11.00

They are cheaper than trays or sinks for washing prints, and much more effectual in removing every trace of hypo.

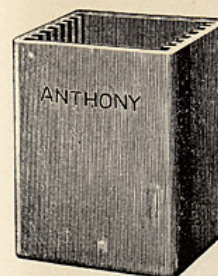


HARD RUBBER FIXING BATHS

Are very popular among those who have tried them, they are clean and the plates are easily and safely inserted in the partitions. They can be depended upon to give entire satisfaction.

PRICES.

4 x 5 \$2 00
4½ x 6½ 2 25
5 x 7 2 50
5 x 8 2 50
6½ x 8½ 3 00
8 x 10 3 50



PATENT METALLIC PROTECTING CASES.

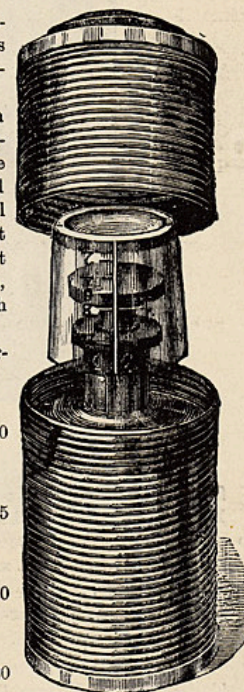
With Ground Stopple Bottle and Graduated Tumbler for Chemical Solutions.

These contrivances are a great convenience to either amateur or professional photographers who wish to carry solutions of developer, etc., in their travels without possibility of breakage or leakage.

The cases are drawn from solid metal and made of even thickness throughout, being corrugated for the purpose of giving them strength to resist crushing or indentation, as they are very light. This corrugation answers the purpose of a male and female screw, whereby the top of the case is screwed down until it rests on the glass stopple of the bottle, and thus keeps it tightly in its place and prevents the bottle from rattling about in the case. The cut shows the case as it appears when open, indicating the style and position of the graduated tumbler which is furnished with the three last sizes.

They are nickel finished and are very attractive in appearance.

- No. 1. Diameter, 1½ in.; length, 3½ in.; weight, 4½ oz., furnished with 1-oz. bottle, each..... \$0 50
- No. 3A. Diameter, 2 in.; length, 5½ in.; weight, 7½ oz., furnished with 4-oz. bottle, with tumbler, making ½-pint flask, each..... 85
- No. 4A. Diameter, 2½ in.; length, 7 in.; weight, 14 oz., furnished with 8-oz. bottle, with tumbler, making 1-pint flask, each..... 1 10
- No. 13A. Diameter, 2½ in.; length, 6 in.; weight, 17 oz., furnished with 8-oz. bottle, with tumbler, making ½-pint flask, each..... 1 20



WOOD'S DISPLAY CABINET.



Seven leaves that open out showing 50 cabinets at one time. Height, 6 ft. 7 ins.

Holds 300 Cabinets and 18 Paris Panels. The finest invention for showing specimens. No handling of photos necessary; no rubbing, no marring. Made with polished oak case, the leaves of polished mouldings, with panels of three-ply veneer. Base is for mats and large pictures.

Very handsome and durable.

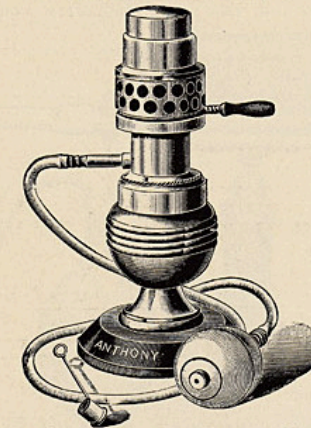
PRICES.

With base (boxed)..... \$40 00

To fasten to Wall (boxed)..... 30 00

IMPERIAL MAGNESIUM FLASH LAMP.

(PATENT APPLIED FOR.)



The simplicity of construction and manipulation of this lamp, enabling all to use it with the utmost ease and certainty of result, will at once commend it to both the professional and amateur. The amount of smoke given off is insignificant, exposure succeeding exposure without hindrance therefrom. The full charge is 15 grains (at the utmost 20 grains) of pure magnesium, a few grains, however (3 to 5), being sufficient for simple portraiture. Full directions accompany each lamp.

Price..... \$6 00

CAUTION.—The so-called flash powders should never be used in this or any other form of lamp, but only pure magnesium.

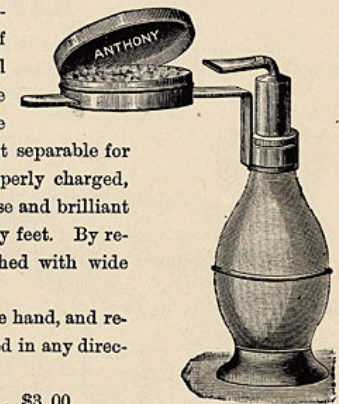
THE MIZE POCKET REPEATING FLASH LAMP.

The lamp here offered embodies the latest improvements of the original inventor of this system of magnesium lighting. It consists of three essential parts, namely: a large flat alcohol lamp, a receptacle for magnesium holding about sixty grains, and a large hand pressure bulb, all compactly joined together, but separable for convenience in carrying. The apparatus, when properly charged, will give, with a single pressure on the bulb, an intense and brilliant light sufficient to fully expose from fifteen to twenty feet. By repeated pressures, large interiors may be photographed with wide angle lenses.

The apparatus is held in and operated by the same hand, and requires no other support, and the light may be projected in any direction, and at any angle of elevation.

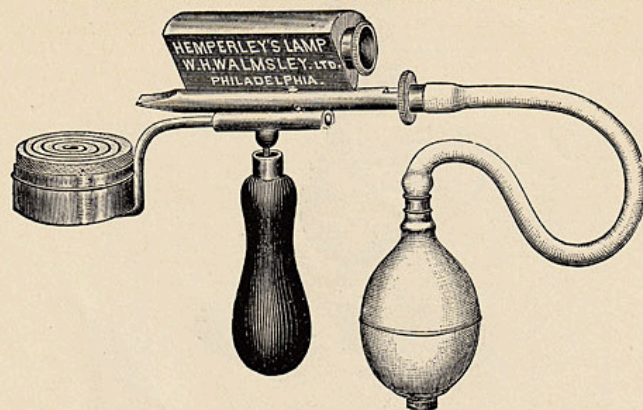
Price, complete..... \$3 00

CAUTION.—The so-called flash powders should never be used in this or any other form of lamp, but only pure magnesium.



HEMPERLEY'S MAGAZINE FLASH LAMP.

SELF LOADING FOR USE WITH PURE MAGNESIUM POWDER ONLY.



Model of 1890.

Is a simple, effective and perfectly safe instrument at a moderate price.

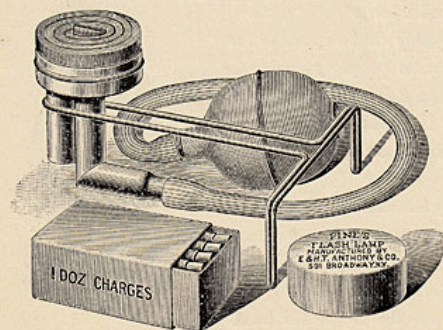
As will be seen from the illustration, the apparatus consists of a reservoir for containing the supply of Magnesium Powder, beneath which is the discharging barrel, flattened at one end in order to throw the magnesium in a thin sheet across the flame of the lamp. To the other end of the barrel is attached the rubber tubing and pressure bulb. The lamp is filled with a coil of wick, which being saturated with alcohol, affords a large surface of flame, completely and instantly burning all the magnesium powder that is forced into it. A metallic cover is provided for the lamp to prevent evaporation of the alcohol when not in use.

By its construction, the necessity of reloading after each exposure is avoided, thus obviating the use of glass capsules or shells, and the saving of much time and trouble.

Price of Lamp, complete	\$2 75
Magnesium, fine ground, per oz.	40

THE PINE FLASH LAMP.

The principle upon which this lamp is constructed is such that the greatest amount of light is obtained from the smallest amount of magnesium; the powder being blown



is free from complicated parts and easy of manipulation. Each lamp is supplied with one dozen capsules of powder without charge. After the capsules have been emptied

vertically through the center of the wick, is projected into the intense heat of a blow-pipe flame which is drawn out by the blast from the bulb to a foot or more in length, and perfect combustion is thereby assured. The vertical flame insuring perfect illumination.

The flash for the same reason, instead of being a slow blaze as with many other lamps, is absolutely instantaneous, a matter of the greatest importance when photographing animate objects. All parts are perfectly interchangeable, and, in case any are lost, new ones can be obtained at a trifling cost. This lamp

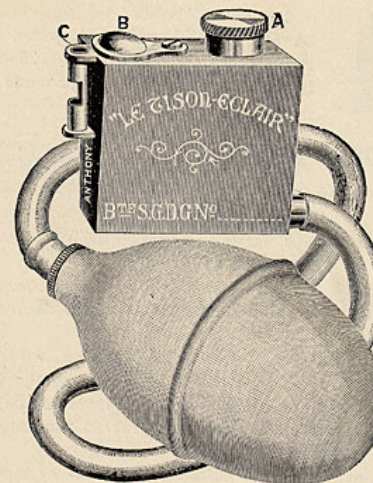
they can be reloaded again and again. The cost of each flash made by the Pine Flash Lamp is less than 1½ cents.

USE ONLY PURE MAGNESIUM.

Where desired, a mouth-piece can be supplied instead of a bulb.

Pine's Flash Lamp with one dozen capsules of powder, packed in pasteboard box. . .	\$2 00
Extra loaded capsules, per dozen.	40
Pure magnesium powder, per ounce.	40

FUSEE POCKET FLASH LAMP OR TISON ÉCLAIR.



PATENT APPLIED FOR.

This is a Magazine Magnesium Lamp, and is capable of making twelve exposures without refilling. The flame is furnished entirely by safety fusees (or cigar lighters), which can be purchased at almost any tobacco store in the country. Each fusee will last long enough to make two or three consecutive exposures, each one of which will illuminate a radius of ten or eleven yards, sufficient for a full timed exposure.

The cut shows the full size of the body of the Lamp, and the entire apparatus. Fusees, Bulb and all can be carried in a pocket, ready for ten or twelve exposures, the attaching of the fusee being all that is necessary, dispensing with the use of alcohol, oil, etc. Pure Magnesium only must be used.

It is truly the smallest, lightest and most economical of any Magnesium Flash Light in the market, giving the greatest illumination for quantity of Magnesium used.

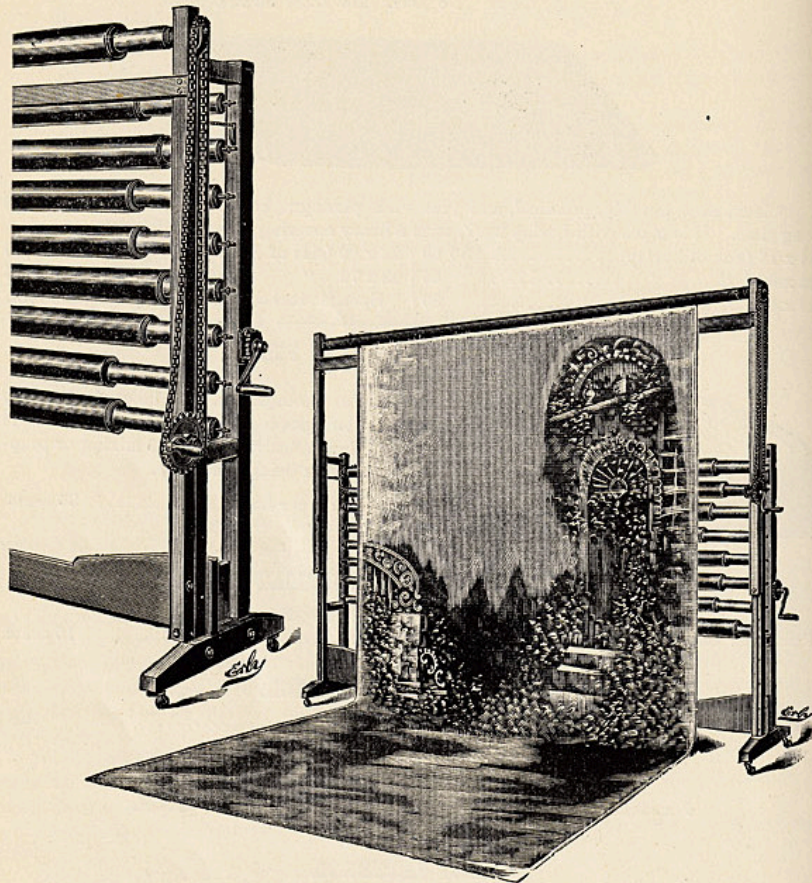
Price, including a bottle of pure Magnesium Powder and a box of Fusees, \$1 50

PRISMS.

For making non-reversed ferrotypes, and for copying plans, etc., by photo-lithography. 2½ inches square, mounted in brass, each. \$30 00

These can be fitted to any lens by giving the diameter of front hood of the lens.

THE NEWELL BACKGROUND CARRIER.



The most complete, simplest constructed, easiest working, cleanest made, quickest adjusted, largest capacity of any background carrier in the market.

Invaluable for handling the popular continuous backgrounds. Carries any size from 5 feet to 8 feet high, any width up to 10 feet. The change of backgrounds is made instantly by simply lifting the discarded roller out of the slots at top of uprights and replacing it with another. Each carrier has a capacity for nine backgrounds.

The rollers are the best known; heavy tin with curtain for stitching background to. Cut No. 1 shows end view of carrier lowered ready for changing rollers. Cut No. 2 shows carrier raised to extreme height, with an 8 x 15 continuous background ready for use.

PRICE.

Carrier with 1 roller (boxed and delivered on board cars).....	\$26 50
Extra rollers, 2½ inches in diameter, each.....	2 50
“ “ 3 “ “ “.....	3 50

Above will generally be kept in stock, boxed with four extra 2½-inch rollers.

HETHERINGTON'S BACKGROUNDS AND ACCESSORIES.

A few subjects only of which are shown in this catalogue.

EXPLANATORY.

- No. 45. Wire foreground. Light, serviceable, and very useful for children.
- No. 450. Accessory suitable for interior and exterior work. It is in two sections, back and base separate, finished in the popular plastic material. The framework is light but strong, neatly ornamented with papier-maché. Color, cream and gold.
- No. 205. Wainscot accessory, very useful for groups and figures. It makes up well with our 205 curtain ground.
- No. 205. Curtain ground. The curtain is attached to the ground with plastic paint. This is, without doubt, one of the most useful grounds in the market. It is capable of numerous changes, and can be made to assume good effects with any of our accessories. It is equally well adapted for use with heads, figures or groups.
- No. 204. Balustrade. Large post is 3 ft. high, the small one 27 inches; total length, 4 ft. 5 in. Finished in rough plastic effect; hence, giving much better photographic results than the plain finish of cheaper grades. It is put up on casters and easily handled.
- No. "B." Child's bench accessory. Finished with papier-maché and an adjustable paper back. The back is braced with an invisible wire screen.
- No. "C." Pedestal for statuary of children. Finished in plastic paint. Color, cream and gold.
- No. "H." Bench accessory, reversible back, especially useful with grounds. The back is adjustable, and can be used alone as a wainscot with children, and to good advantage in an endless variety of positions. Send for sample sheet showing some of its different uses.
- No. 606 and 627 are plastic head grounds made on burlap. Size, 4 x 5.
- No. 757 is a sample print showing the use of Hetherington's vignetted paste, for shadow effects and difficult printing. Directions go with every package.
- No. 5. A plastic ground for heads or three-quarter figures. Size, 6 x 8.
- No. 605½. Combination. An accessory in two sections. The base can be used with any interior ground. The upper portion can be used for heads or children. Total size, 6 x 8.
- No. 767. An 8 x 6 ground for theatrical work. It has attached to the upper corner a design made with papier-maché, which stands out in relief from the ground. The ground complete is shipped on stretcher ready for use. Size, 7 x 5.
- Nos. 501 and 760 are continuous grounds for children. Size, 10 x 6.
- Nos. 750, 751, 752, 753, 754, 761, 762, 763, 764, 600, 610 and 611 are all continuous (backgrounds and floor cloth in one). They can be painted without floor-cloth, if so desired.

PRICE LIST.

No. 46.....	\$5 00	No. "C." Pedestal	\$8 00
" 450. Accessory alone.....	18 00	With curtain ground....	15 00
Accessory and ground.....	25 00	" "H." Reversible bench	20 00
Ground alone.....	10 00	With curtain ground.....	25 00
" 205. Accessory.....	10 00	Nos. 606 and 627. Plastic head	
Accessory and ground.....	18 00	grounds.....	10 00
Ground	10 00	No. 757. Vignetting paste, per pkg.	1 00
" 205. Curtain ground.....	10 00	" 5. Plastic.....	7 00
" 204. Balustrade.....	15 00	" 760.....	7 00
" "B." Child's bench accessory..	12 00	" 605 $\frac{1}{2}$	20 00
With curtain ground.....	20 00	" 767.....	7 00

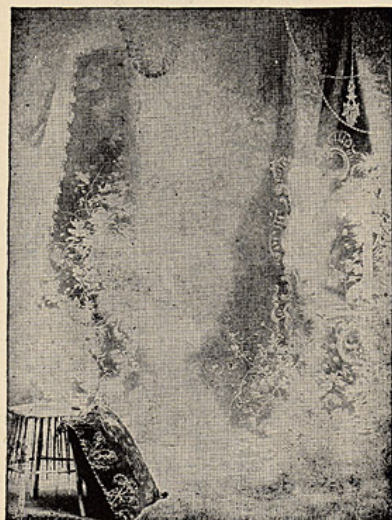
Backgrounds, 20 cts. per sq. ft. Boxing, extra,

DIRECTIONS FOR ORDERING.

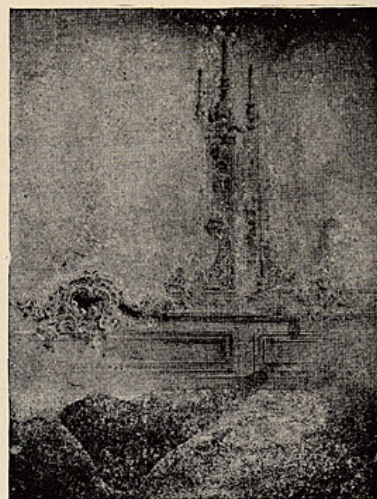
1. Height; 2, width; 3, No. of ground; 4, tint; 5, whether the light falls on the left or right of the sitter, adding any special directions as to painting, shipping or marking. This process of printing does not show the photographic quality of grounds or accessories—only the designs.

SPECIAL LINE OF ARTISTIC EFFECTS BY HETHERINGTON.

Prices quoted on application.



Special Design A.



Special Design B.



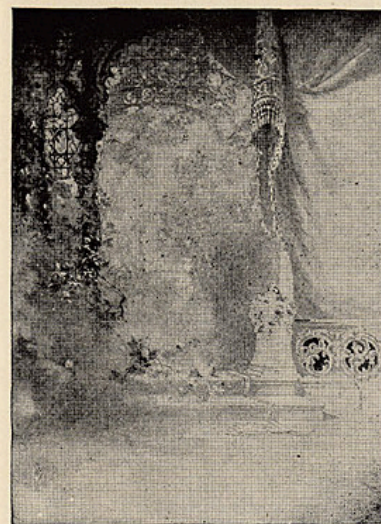
Special Design C.



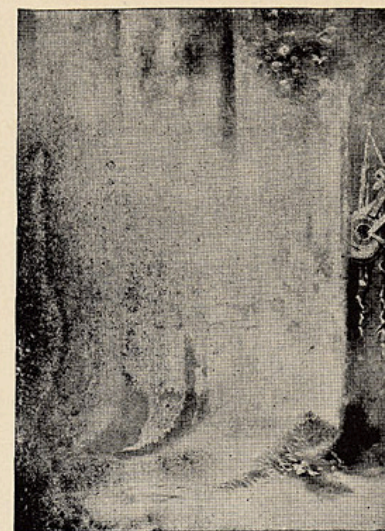
Special Design D.

SPECIAL LINE OF ARTISTIC EFFECTS BY HETHERINGTON.

Prices quoted on application.



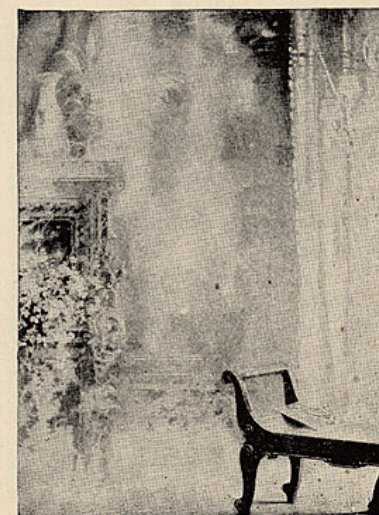
Special Design E.



Special Design F.



Special Design G.



Special Design H.

SPECIAL LINE OF ARTISTIC EFFECTS BY HETHERINGTON.

Prices quoted on application.



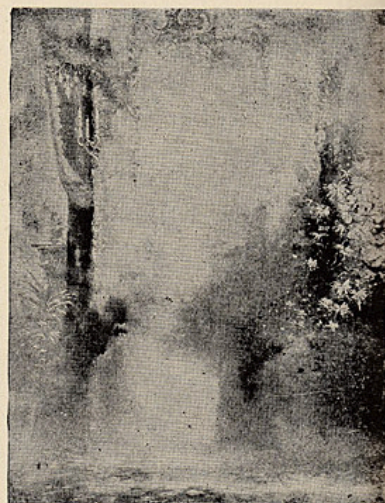
Special Design I.



Special Design J.



Special Design K.



Special Design L.

SPECIAL LINE OF ARTISTIC EFFECTS BY HETHERINGTON.

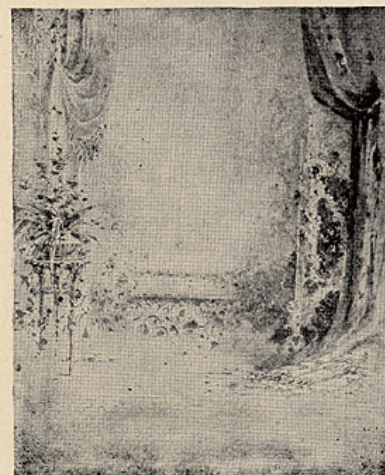
Prices quoted on application.



Special Design M.



Special Design N.



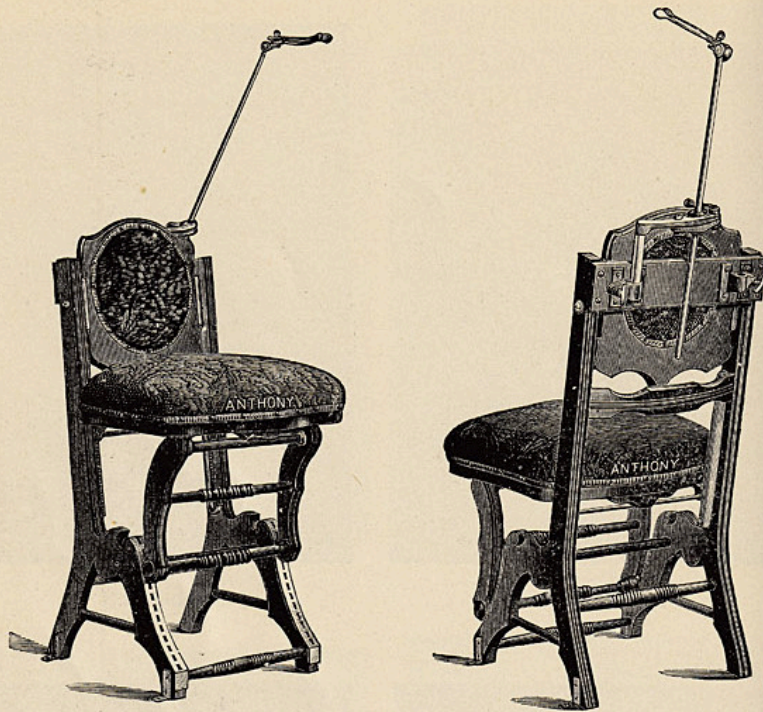
Special Design O.



Special Design P.

THE N. P. A. CHAIR

Is unsurpassed for bust pictures.



It is fitted with ball and socket head rest, which is readily adjusted to either side of the chair at the back, as shown in the cut, or it may be entirely removed. Either of these operations are accomplished by simply loosening the clamp and lifting the rest out or in.

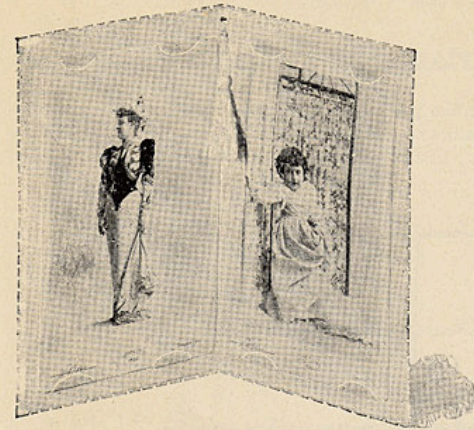
The raising or lowering of the seat, is by means of the ratchets in the front, and its simplicity and practicability are beyond compare.

It is firmly attached to a movable platform having casters, and is handsomely upholstered in plush. This chair is handsome in design, well made in every particular and extremely valuable as a studio requisite.

PRICE.

With head rest	\$35 00
Without head rest	25 00

BECKER'S PORTRAIT SOUVENIR HOLDER AND NOVELTIES.



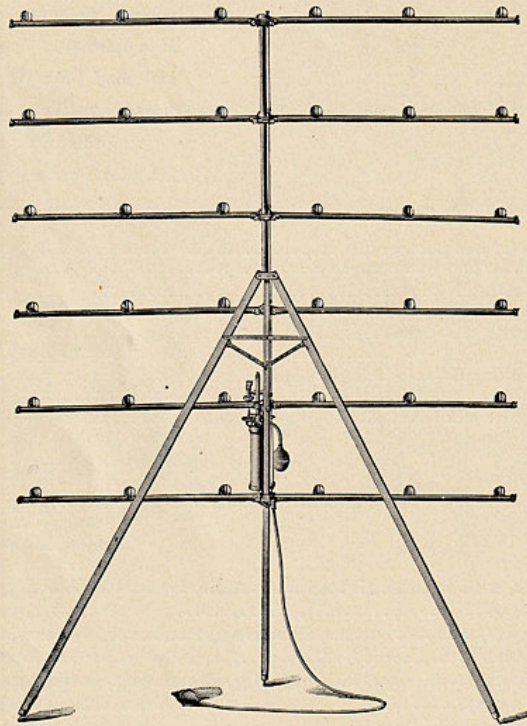
This souvenir holder is a folding case of tasteful and unique design, made of fine linen wedding board in assorted colors, beautifully embossed and edged, and arranged to contain one or more cabinet photographs as desired. It is finished in a variety of styles, and may be used as a booklet, frame, easel or wall ornament.

In ordering from the following list, please order by number.

No.			
1	Single holders for one photograph	per gross,	\$2 50
2	Double holders for two photographs	"	2 50
3	Single holder with gilt edge	"	3 50
4	Double holder "	"	3 50
5	Single holder with silk tassel	"	3 75
6	Double holder "	"	3 75
7	Single holder with silk tassel and gilt edge	"	5 00
8	Double holder "	"	5 00
9	Single holder with silk tassel, ribbons and buttons	per hundred,	5 00
10	Double holder "	"	5 00
11	Single holder "	"	6 00
12	Double holder "	"	6 00
13	Single celluloid holders with silk tassel, ribbons and buttons	per dozen,	2 25
14	Double "	"	2 25
15	Single "	"	2 88
16	Double "	"	2 88
17	Booklets, plain, with buttons, ribbons and tassels, for twelve photographs (two in a box)	per dozen,	3 25
18	Booklets, gilt edge, with silk buttons, ribbons and tassels, for twelve photographs (two in a box)	per dozen,	4 75
19	Booklets, fancy celluloid cover, with gilt edge, silk ribbons, buttons and tassels (two in a box)	per dozen,	8 00
20	Four-panel screens, plain (four in a box)	"	2 88
21	" silk trimmed (three in a box)	"	5 60
22	Six-panel screens, plain (four in a box)	"	2 88
23	" silk trimmed (three in a box)	"	5 60
24	Hangers, trio, fancy embossed tisso, silk trimmed	"	8 00
25	Hangers, square, "	"	10 40
26	Hangers, celluloid trio, silk trimmed	"	10 40
27	Hangers, " " transparent	"	12 00
28	Hangers, celluloid square, silk trimmed	"	12 80
29	Hangers, " " transparent	"	15 68
30	Becker's safe mailing device	per hundred,	3 00
31	Same as 13, only transparent	per dozen,	3 00
32	" 14, "	"	3 00
33	" 15, "	"	4 00
34	" 16, "	"	4 00

THE WILLIAMS FLASH-LIGHT APPARATUS.

The only practical flash lamp for the professional. Thirty-six cups carry the compound flash powder, and a single pressure of the bulb ignites the whole of them, at the same time releasing the camera shutter. Either gas or gasoline may be used.

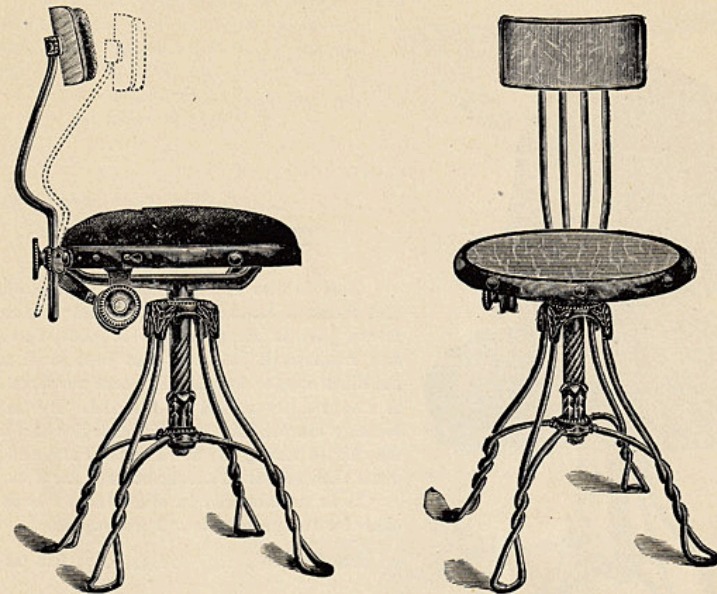


The apparatus is supported on a tripod, strengthened by connections between the legs. The cut shows the lamp fitted with the gasoline generator. Already many of these are in use, the leading photographers in the country appreciating, first, the necessity for a practical flash lamp, and, secondly, the fact that the Williams Flash-Light Apparatus entirely meets all requirements. When packed for traveling it goes into a case 5 feet long and 6 inches square, and the whole apparatus, boxed, weighs about 30 pounds.

Price, complete \$100

THE ELITE POSER.

A Beautiful, Common-Sense Posing Chair for Bust Portraits.



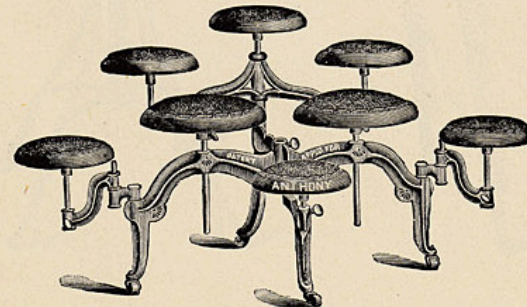
Constructed principally of steel, the legs and back supports being of steel rods. Entirely metal, except the covering of seat and back rest.

The seat revolves and can be raised or lowered to any desired height; set screw holding it firm; back tilts forward or back.

PRICES.

With Solid Oak Seat and Back, each	\$8 00
With Leather Seat and Back, each	9 50
With Plush Seat and Back, each	9 50

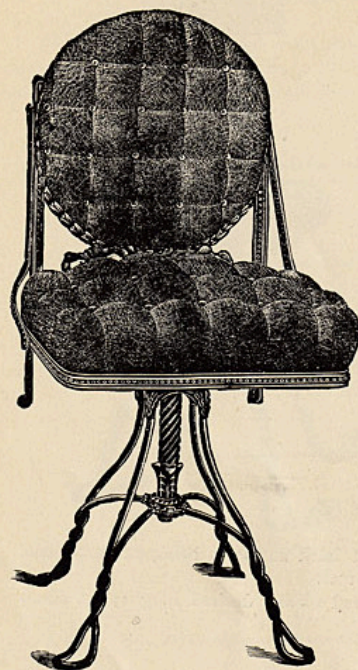
THE "BESAW" GROUPEUR.



The only rational arrangement for artistic grouping. The seats are easily raised or lowered and may be moved into any position, giving an almost unlimited series of combinations.

PRICES.

5 Oak Seats	\$19 00	5 Upholstered Seats	\$22 75
8 " "	24 00	8 " "	30 50

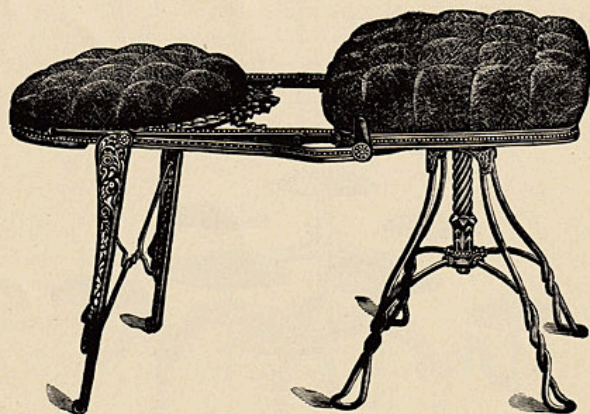


THE "DUPLEX" CHAIR.

This is the latest thing in posing chairs and forms a handsome and useful accessory. Every part is strong and well made, the legs and framework being of the best steel with oxidized copper finish. The seat revolves and is also readily raised or lowered. By an extremely simple and ingenious device the back may be let down, as shown in the cuts, and the chair then makes an admirable seat for two.

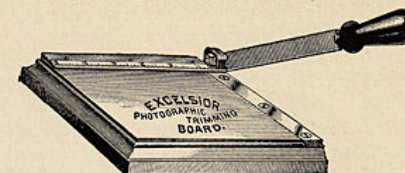
It is upholstered in silk plush. It is *the* chair for the progressive photographer.

Price \$15 00



THE EXCELSIOR PHOTOGRAPHIC TRIMMING BOARD.

This cutter is designed to supply a long-felt want for a cheap serviceable article. The knives are made of the best grade of steel and are guaranteed for wear. Trims prints perfectly square, and the edges clean and smooth.

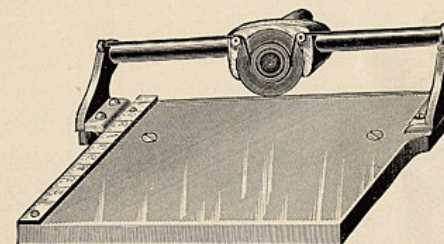


PRICES.

Trims sizes up to 8½ inches	\$4 00
" " 10 "	5 00

THE CLIMAX CUTTER

Is the acme of perfection. A solid iron base gives great stability to this instrument and ensures its durability. There are no pins to become loosened, and a minimum of strain on any of the working parts. The cutter is a wheel made of the finest steel, and the movement



is of the simplest possible kind. The accompanying cut gives a good idea of the general arrangement. Paper, cards or ferrotype plates may readily be trimmed or cut with it. A scale of inches and fractions thereof serves as a guide and will be found useful. The whole instrument is simple and durable.

PRICE.

10-inch.....	\$9 00
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THE SIMPLEX CAMERA STAND.

This is a cheap stand so far as price is concerned, being excellently made, and raising and lowering by a very easy movement.

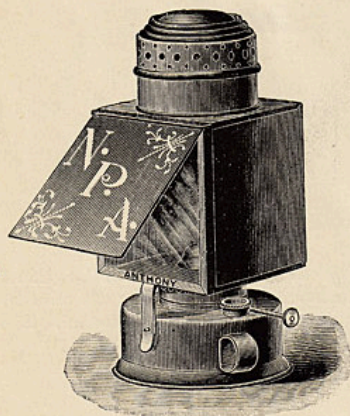
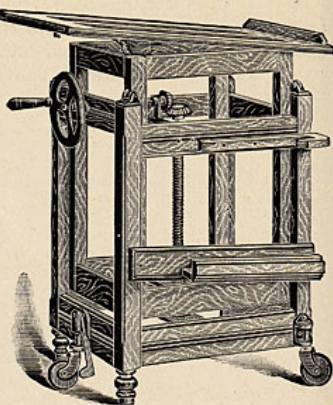
The simplex movement will elevate a camera weighing 100 pounds as easily as one weighing 15 pounds.

No ratchet on the crank wheel or stop pin catching in a dial connected with its structure.

When the operator ceases turning the handle wheel, the machine stops, and no weight can lower it.

PRICES.

No. 1, for 8 x 10 and smaller.....	\$15 00
" 2, " 10 x 12, Camera, 30-inch bed.....	18 00
" 3, " 11 x 14, " 40-inch "	19 00
" 4, " 14 x 17 to 18 x 22, Camera 48-inch bed.....	24 00
" 5, for 20 x 24, Camera 52-inch bed	29 00
" 6, " 25 x 35, to order	33 00



THE "N. P. A." LAMP.

At once the simplest and most effective lamp on the market. By a simple movement the wick carrier may be removed and a candle substituted. Well made and perfectly safe. A shade screens the light from the operator's eyes, and, when entirely down, serves to protect the glass.

Price, complete\$1 00

"ARISTO" MATT-SURFACING SOLUTION

For producing the finest matt surface on American "Aristo" paper. The washed print is laid out on the pasting glass as usual and rather more than the ordinary quantity of paste applied. It is then transferred, face up, to another sheet of glass and the matt-surfacing solution applied as in varnishing a plate. In a few seconds it is finished. Sufficient paste remains for the final mounting process. The solution produces a water-proof coating, and the effect is very artistic.

Price per bottle 50 cents.

"ARISTO" MEZZO PLATES

Give soft prints from hard negatives. These mezzo plates are thin transparent sheets with a matt finish. Placed between the negative and the paper they reduce hard contrasts to pleasing gradations.

PRICE LIST.

Size.	Dozen.	Half Dozen.	Each.
5 x 7	\$2 00	\$1 10	—
5 x 8	2 40	1 35	—
6½ x 8½	3 00	1 60	\$0 35
8 x 10	4 75	2 50	50
10 x 12	7 25	3 75	75
11 x 14	9 25	4 75	90
14 x 17	14 25	7 25	1 25
16 x 20	19 25	9 75	1 70
18 x 22	23 75	12 00	2 25
20 x 24	28 00	14 00	2 45

STRAUSS MARL

Is an invaluable aid to operator, printer and retoucher. For working in shadows and backgrounds on the negative it has no equal. Invaluable for blocking out and vignetting. Far superior to any opaque. Sold in glass jars with metal screw top.

Price per jar..... \$1 00
Postage extra..... 10

ANTHONY'S SENSITIVE LITMUS

Supplies a long-felt want. This is the best litmus paper yet introduced and is made especially for use in toning baths. It is put up in amber glass tubes, convenient for the pocket. Both colors, red and blue.

Price, one hundred sheets in tube..... 15 cents.

ANTHONY'S C. P. KALKAR

For use in the toning bath. "Aristo" gold, Kalkar and water make the ideal toning bath.

Directions for using Anthony's C. P. Kalkar—a 100-ounce bath is made up as follows: 1 ounce of Anthony's C. P. Kalkar, 8 ounces of water, 50 minims of No. 3 "Aristo" gold.

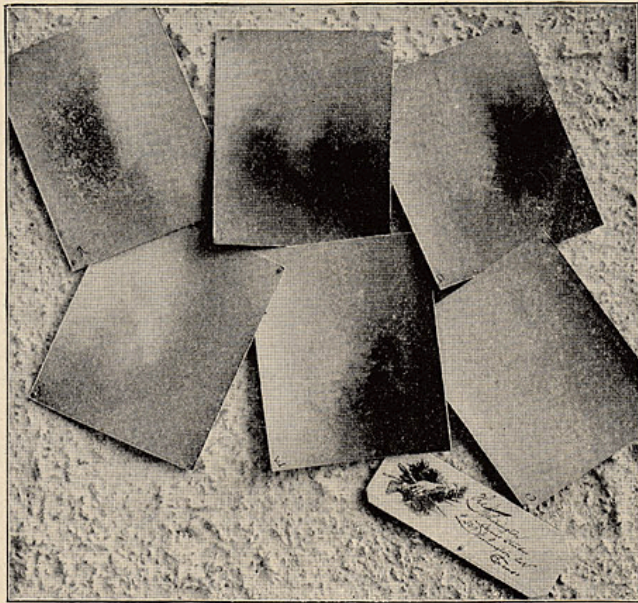
Allow this to settle thoroughly by standing about one hour, then pour off very carefully (without disturbing the sediment), and filter into 92 ounces of water, and add 2 ounces of pure alcohol.

If No. 2 "Aristo" gold is used, 100 minims will be required, because it is only half the strength of No. 3.

Put up in pound packages only.

Per pound 15 cents.

BACKGROUNDS.



The plate shows six of these designs.

Six superb 4 x 5 backgrounds, assorted useful designs, mounted on three stretchers, back to back, with the edges nicely finished, a neat carrier with grooved sides or uprights, a cam lever clamp to hold the background at any desired height, constitutes what we claim is the neatest, most useful, and most economical outfit ever placed in reach of the fraternity.

They are invaluable for use with standing figures of children, bust and three-quarter length portraits of adults.

The bottom of the background may be lowered until it touches the floor, or raised to a height of 4 feet if needed.

Price, complete, with carrier..... \$25 00

USEFUL BENCH ACCESSORY.



The cut shows a few of the numerous effects possible with this popular bench accessory. It may be used as a bench with either high or low back and as a screen.

Price \$20 00

PRICE LIST

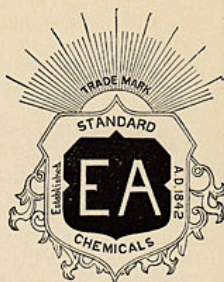
OF

PHOTOGRAPHIC CHEMICALS

SOLD AND MANUFACTURED BY

E. & H. T. ANTHONY & CO.,

[WARRANTED PURE AND OF FULL WEIGHT AND MEASUREMENT.]



c. b. 11 signifies corked bottle, 11 cts.; g. s. b. 18 signifies glass stoppered bottle, 18 cts.

Acid, Acetic, No. 8, in 1 lb. bottle, per lb.	\$0 20
“ by the 5 lb., in 1 bottle, per bottle	70
“ Glacial, g. s. b., 1 oz., 15 cents; 4 oz., 28 cents; 8 oz., 35 cents; per lb.	50
Boracic, per oz.	05
Carbolic, crystal, g. s. b., per oz.	18
Citric, c. b., per oz., 12 cents; per lb.	90
Formic, g. s. b., per oz.	25
Gallic, c. b., per oz.	20
Hydrobromic, g. s. b., per oz.	20
Muriatic, C. P., g. s. b., per lb.	45
Nitric, com., g. s. b., per 7 lb. bottle	1 25
“ “ “ per lb.	30
“ C. P. “ “	45
“ “ “ per oz., 12 cents; per ½ lb.	30
Oxalic, c. b., per oz., 10 cents; per lb.	30
Pyrogallie, E. A., c. b., per oz. bottle.	40
“ “ “ per ½ oz. bottle, about 47 5-grain tablets	40
“ “ “ “ oz. can.	35
“ “ “ “ 4 oz. can.	1 25
“ “ “ “ 8 “ “	2 25
“ “ “ “ 16 “ “	4 25
“ “ “ “ 5 lb. “	@ 4 00

THE E. A. PYROGALLIC ACID

YOU CAN ALWAYS DEPEND UPON.

Recommended by

NEWTON, WARDLAW, COOPER and ROCHE, all of whom are known to every Photographer.

THE STANLEY DRY PLATE CO. THE CARBUTT DRY PLATE CO.
THE CRAMER DRY PLATE CO. THE ST. LOUIS DRY PLATE CO.
And Many Others.

See that it has the E. A. Trade Mark.

Put up in 5 gr. tablets ½ oz. in bottle.
In 1 ounce bottles.

“ 1 “ cans.
“ 4 “ “
“ 8 “ “
“ 16 “ “
“ 5 pound “

ASK YOUR DEALER FOR IT.



Cooper's Concentrated Developer, which is found to work so well on all kinds of plates, is compounded with the E. A. Sublimed Pyro; also Anthony's Economical Developer and Stanley's Concentrated Developer.

Schering's Pyrogallie Acid; prices same as E. A.

ACID, Sulphite, per pint bottle.	\$0 40
Sulphuric, C. P., g. s. b., 1 oz., 12 cents; 4-oz. bottle, 20 cents; per lb. bottle.	45
Salicylic, per oz.	25
Sulphurous, bottle included, per lb.	40
Tartaric, bottle included, per lb.	80
Albumen, dry, per oz.	15
Alcohol, Attwood's, 95 per cent. c. b., per pint	50
Quart, 90 cents; ½ gallon, \$1.80; gallon, \$3.00, no bottle.	
Alum, Powdered, per lb.	15
Chrome, per lb., in bottle.	30
Ammonia, liq. conc., g. s. b., ½ lb. bottle, 25 cents; 1-lb. bottle, 35 cents; 4-lb.	95
Ammonium, Sulph. Cyanide, per oz.	30
Iodide, Anthony's C. P., per oz.	45
Bromide, Anthony's C. P., bottle included, per oz., 15 cents; per lb.	85
Bichromate, c. b., bottle included, per lb.	3 00
Carbonate, c. b., bottle included, per lb.	60
Chloride, c. b., bottle included, 1 oz., 10 cents; 8 oz., 30 cents; per lb.	45
Hydrosulphate, c. b., bottle included, per 5 lb.	2 60
Nitrate, fused, c. b., per oz., 10 cents; 1 lb. bottle.	50
Sulphocyanide, c. b., bottle included, per oz.	25
Barium, Nitrate, c. b., bottle included, per oz., 10 cents; per lb.	55
Carbonate, c. b., “ “ 15 “ “	1 50
Chloride, c. b., “ “ 10 “ “	55
Benzole, extra quality, c. b., bottle included, per pint.	70
Borax, per lb.	25
Bromine, packed in tin, g. s. b., bottle included, per oz.	25
Cadmium, Bromide, c. b., bottle included, per oz.	25
Iodide, c. b., bottle included, per oz.	50
Chloride, c. b., bottle included, per oz.	50
Calcium, Chloride, c. b., bottle included, per oz., 13 cents; per ½ lb. bottle.	35
Iodide, g. s. b., bottle included, per oz.	55
Bromide, g. s. b., bottle included, per oz.	35
Chloroform, c. b., bottle included, 1 oz., 18 cents; per lb.	1 50
Copper, sulph., C. P., c. b., bottle included, per lb.	55
Acetate, c. b., bottle included, per oz.	15
Chloride, c. b., bottle included, per oz.	15
Developer, H. T. A., per package of ½ lb., 8 cents; ¾ lb.	15
Anthony's Economical, for dry plates, per ½ lb. bottle	40
Cooper's Concentrated, “ “ 50 cents; 1 lb. bottle.	90
Eikonogen, “ “ 30 cents; 1 lb.	55
Hydrochinone, “ “ 30 cents; 1 lb.	55
“ Concentrated, “ “ 2 oz. bottle	30
Newton's Giant, “ “ ½ lb. bottle, 30 cents; 1 lb.	55
Dermaline, to protect the hands, per bottle	25
Dextrine, bulk.	12
Eikonogen, 1 oz., 50 cents; 3½ oz. bottle, \$1.40; ½ lb.	3 20
Ether, sulph. conc., c. b., bottle included, per lb., 90 cents; 3½ lbs.	3 00
Enameline, c. b., 6 oz.	62
Glycerine, C. P., c. b., bottle included, oz., 15 cents; per lb.	60
Gold, Chloride (liquid), 15 gr. bottles, per bottle.	75
Gold, Chloride (dry), 15 grains, per bottle.	60
Gold and Sodium (dry), 15 gr. bottles, per bottle.	45
Gum Arabic Select, per lb.	1 00
Asphaltum, per lb.	20
Benzoin, per lb.	75
Camphor, per lb.	45
Damar, per lb.	50
Mastic, per lb.	2 25
Sandarac, per lb.	50
Shellac, bleached, per lb.	60
Tragacanth, per lb.	1 20
White Pine Turpentine, per lb.	20
Hydrochinone, E. A., per oz.	50
Merk's, per oz.	60
H. & F., per oz.	60

Hydrochinone , E. A. Tablets, per $\frac{1}{2}$ oz., about 54 4-grain tablets.....	\$0 50
Hydroxylamine , per oz.....	1 50
Iodine , resub., g. s. b., per oz.....	45
Iron , Sulphate, bulk, per lb.....	06
" pure, c. b., bottle included, per lb.....	60
" and Ammonia, per lb.....	15
Iodide, g. s. b., per oz.....	40
Citrate and Ammonia, c. b., bottle included, per lb.....	85
Lactate, c. b., per oz.....	18
Perchloride, c. b., bottle included, per lb.....	1 00
Kaolin , bulk, per lb.....	10
Lead , Acetate, C. P., c. b., bottle included, per oz., 12 cents; per lb.....	55
Chloride, c. b., bottle included, per oz.....	15
Nitrate, " " ".....	12
Lime , Carbonate, bulk, per lb.....	15
Chloride, c. b., in boxes, per lb.....	20
Lithium , Iodide, g. s. b., bottle included, per oz.....	90
Bromide, g. s. b., bottle included, per oz.....	40
Litmus Paper , blue and red, sheet, 5 cents; per doz.....	50
Magnesia , Nitrate, c. b., bottle included, 1 oz., 15 cents; per lb.....	1 10
Magnesium Powder , per oz., 50 cents; per lb.....	5 25
Bromide, g. s. b., bottle included, per oz.....	50
Chloride, g. s. b., bottle included, per oz.....	15
Iodide, g. s. b., bottle included, per oz.....	75
Calcined (oxide), per lb.....	1 00
Manganese (black oxide), bulk, per lb.....	10
Mercury , Bichloride, c. b., bottle included, per oz., 15 cents; 4 oz., 25 cents; 8 oz., 45 cents; 1 lb.....	75
Naphtha (wood), c. b., bottle included, per lb.....	50
Oil Lavender , per 2-oz. bottle.....	30
Palladium , Sodio-chloride, c. b., 15 grains.....	1 00
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Potass , Carb., per 1-oz. bottle, about 87 5-grain tablets.....	20
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Meta-bisulph., per oz.....	38
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Potassium Bromide, bottle included, c. b., per oz., 15 cents; per lb.....	70
" per $\frac{1}{2}$ -oz. bottle, about 106 2-grain tablets.....	20
Bicarbonate, bottle included, per lb.....	30
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" com., in paper, per lb.....	27
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Cyanide, c. b., bottle included, $\frac{1}{4}$ -lb. bottle, 25 cents; $\frac{1}{2}$ -lb. bottle, 35 cents; per lb.....	65
Ferrocyanide (Yellow Prussiate), bottle included, per lb.....	70
Ferrocyanide (Red Prussiate), bottle included, per lb.....	1 00
" " " C. P., " " ".....	1 50
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Bromide, c. b., bottle included, per oz.....	12
Carbonate (crystal), per box, per lb.....	15
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Citrate, c. b., bottle included, 1 oz. bottle, 15 cents; 3 oz. bottle, 35 cents; per lb.....	1 00
Hyposulphite, 1 lb. box, per lb., 7 cents; 1 lb. bottle, per lb., 16 cents; kegs of 112 lbs.....	4 00
Iodide, c. b., bottle included, per oz.....	30
Nitrate, c. b., " per lb.....	35
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Tannin , bottle included, per oz.....	30
Uranium , Nitrate, g. s. b., bottle included, per oz.....	\$0 90
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Iodide, g. s. b., bottle included, per oz.....	60



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