

Illustrated
Catalogue
OF
PHOTOGRAPHIC
EQUIPMENTS and
MATERIALS
FOR
AMATEURS

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LP 489 # 75

ILLUSTRATED

CATALOGUE

OF

Photographic

Equipments and Materials,

FOR

AMATEURS.

September, 1894.

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~~☞~~ The prices given in this catalogue are liable to fluctuation. When any article is reduced, the buyer will get the benefit without reference to the printed list.

Read Carefully these Few Facts.

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Presumably the reader of the following pages knows something of the interesting art for which the articles enumerated in this catalogue are provided. If not, he can acquire a general idea of it from what follows, and we shall be pleased, on receipt of fifty cents, to mail to any address a book, in which all the details are given, entitled *How to Make Photographs; A Manual for Amateurs*, by T. C. Roche, recently published by our house. It has been penned and edited by eminent theoretical and practical photographers, and with the purpose of stating in the most simple and concise language, everything necessary for any one to know who may be disposed to engage in photography as an amateur. It will be found equally serviceable to those who desire to practice the art as an aid in their business or profession, and all its statements may be implicitly relied on for accuracy and practicability.

The introduction of the gelatino-bromide dry plate has so revolutionized photography that but little preliminary knowledge of it is now essential; in fact, it is astonishing what can be accomplished by totally inexperienced amateurs who may exercise a little taste and judgment.

It is scarcely to be supposed that success should always attend one's first efforts, but rapid progress can generally be made by old or young, lady or gentleman, who may manifest the slightest disposition to excel.

Unlike the old "wet" plate, the gelatino-bromide process has the advantage of admitting a much wider latitude of exposure—that is to say, the actual time which the sensitive plate may now be subjected to light, though still important, is far less so than by the old collodion process, and the subsequent operations are free from the former objections of complexity, uncertainty and stains. The apparatus and chemicals required are also few and inexpensive, and there is nothing which the veriest tyro in chemistry cannot readily master.

Another obvious improvement is recognized in the exceeding lightness and portability of the equipments, and their greater adaptability to the requirements of the public.

Unfortunately the increasing demand has led many persons to engage in the manufacture and sale of apparatus and materials that are quite inadequate for the attainment of satisfactory results. We therefore point with pride to the intrinsic excellence of every item in the following list—the outcome of *more than fifty years'* diligent effort and experience in the preparation of photographic supplies.

PRESS OF A. H. KELLOGG,
400-415 PEARL STREET,
NEW YORK.

In selecting an outfit from those described in the following pages there are two axioms it will be well to bear in mind. They are :

First.—The larger the camera, the greater the bulk and weight.

Second.—While a small picture can be made with a large camera, a large picture *cannot* be made with a small camera.

Remember, we do not make a single toy ; all our cameras are practical working instruments such as are in constant use by professional photographers. All are fitted with our Patent Double Dry Plate Holders, which are by far the lightest, tightest and handiest holders made, and have done as much as any other one thing toward giving popularity to our equipments. The equipments are fitted with fine single achromatic lenses, which (with the exception of the 4 x 5) are provided with changeable diaphragms, so that the time of exposure may be varied to suit the subject.

They are adapted for landscapes and out-of-door groups and in a good light require but a second's time (or even less) to make a picture. Amateurs who aim to excel, and with whom the cost is a secondary consideration, are invited to examine the more expensive double achromatic lenses described in the following pages.

Those made by DALLMEYER especially can be depended on as being *absolutely the best in market*. With these the very finest results are possible.

In buying do not forget that you are not going to make an experiment. Your success is assured if you follow the printed directions. Thousands have succeeded before you with only the ordinary amount of brains, and some with less than is allowed to mankind generally. So when you buy, buy as good an outfit as you can afford. With a cheap instrument you can do good work, but with the better grades you can do better work more easily. First decide what size you want, then *get the best you can afford of that size*.

With these few hints and explanations we take pleasure in opening to your view and for your consideration the pages of this little book, with the further assurance that everything therein mentioned is guaranteed to be exactly as described.

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.

Remit by Express, Money Order, Draft, Post-office Order, or Registered Letter.

At places where the American Express Co. have offices, any of our goods can be ordered through their agents, who will furnish blanks for the purpose, saving postage and trouble.

IMPORTANT.

—*—

In this list the prices of many Cameras, Lenses, Tripods, etc., are given separately, for those who desire to make up an equipment differing from those presented herein.

When the price is given for *camera, holder and carrying case*, it includes *neither lens nor tripod*. Our list has been prepared with great care, and we have endeavored to be explicit enough to enable any one to select such articles as will make a harmonious equipment. The sizes given are the largest that each camera will admit of, but smaller plates can be used in each by means of our inside kits, for each of which we give the outside dimensions with size of plate that can be used in same.

As our equipments are sold at a less price than the several parts could be bought for separately and combined, we suggest the purchase of such *complete*, wherever possible, as a matter of economy. Where lenses different from those accompanying the equipments are required, the price for making up such special outfit can readily be reached, as prices are given for the different parts that can be supplied separately.

When prices for such parts are not given, it designates that such outfit is sold in one way only. *viz. complete*.

As will be seen, a complete outfit for making pictures measuring 4 x 5 inches can be purchased for \$20.00 as follows :

No. 1 Champion Equipment, described on page 7,	\$10.00
4 x 5 Developing Outfit (see index),	5.25
4 x 5 Printing Outfit (" "),	4.75

This will include everything necessary for making and developing one dozen negatives, and making and mounting two dozen prints from these negatives.

The cost of making subsequent pictures would be trifling, as the developing and printing outfits include trays, graduates, funnels, etc., that will last for years, and sufficient chemicals for making several dozen additional negatives and prints.

A corresponding outfit for making 5 x 8 pictures would cost \$24.50 as follows :

No. 2 Champion Equipment, described on page 7,	\$12.00
5 x 8 Developing Outfit (see index),	6.50
5 x 8 Printing Outfit (" "),	6.00

Developing and printing outfits adapted to equipments of other sizes will be found on the same page as above sizes.

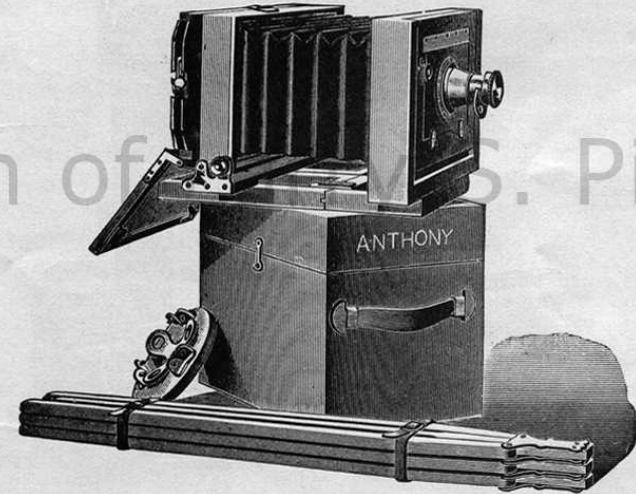
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equipment demonstrate. The equipment comprises a 4 x 5 camera, with lens, folding tripod, and complete developing and printing outfit, as indicated in above cut.

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

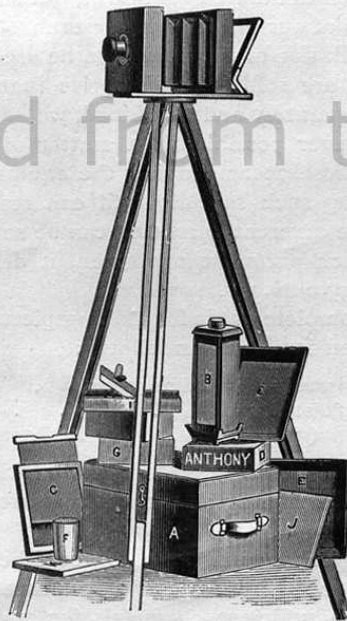


above camera, the equipment includes one patent zephyr double dry plate holder, carrying case, fine single achromatic lens, and improved folding tripod.

Size of View.	Price.	Extra Double Zephyr Plate Holders, each.	Extra Double Eclipse Plate Holders, each.
4 x 5	\$10.00	\$1.20	
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

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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

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.

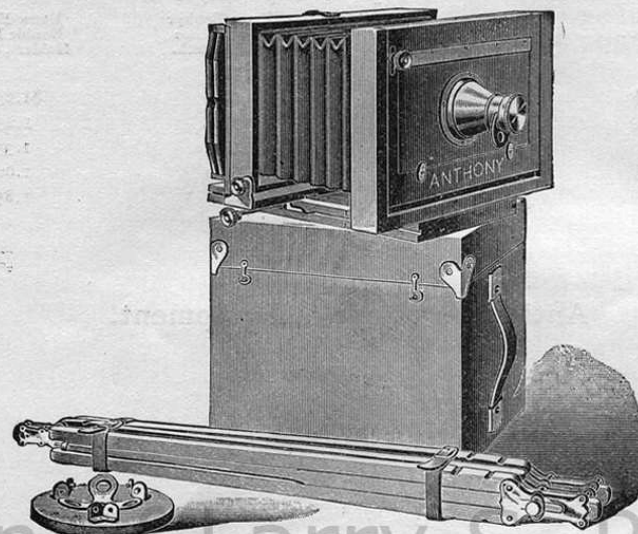


This camera can be used either vertically or horizontally. The outfit includes, beside the camera, a fine single achromatic lens, a patent zephyr double dry plate holder, an improved triple jointed climax tripod and carrying case, except in the case of the two sizes $6\frac{1}{2} \times 8\frac{1}{2}$ and 8×10 , 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	
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

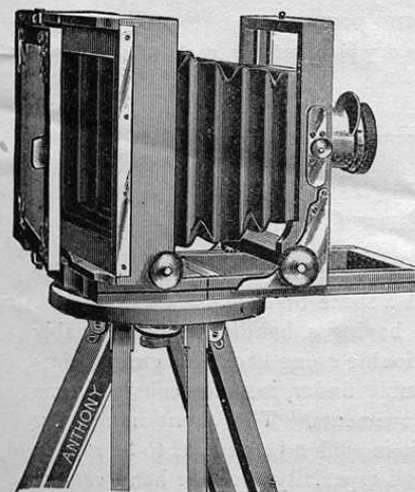
* This Equipment is also fitted with a shutter for instantaneous work, which is included in the price named.

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	$6\frac{1}{2} \times 8\frac{1}{2}$	\$20.00	\$1.60	\$1.60
8 B	8 x 10	26.00	1.85	1.85

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,

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beside 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.



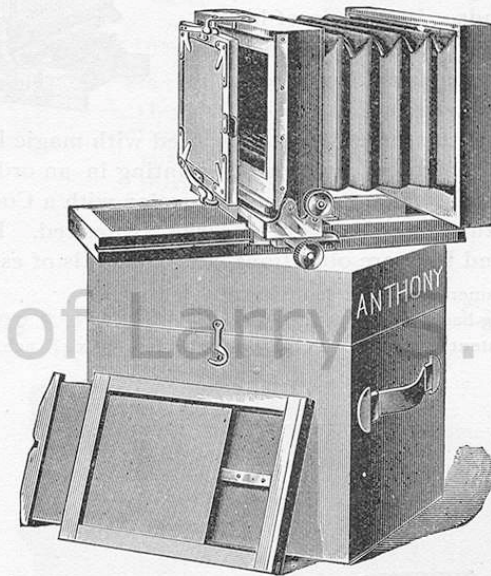
THE several parts which make up this very compact equipment are as follows: A handsome mahogany camera, suitable for views 3¼ x 4¼, a fine single achromatic lens, patent double dry plate

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holder and a sole leather carrying case with shoulder strap for convenience in carrying, and a clamp for attaching camera to bicycle when in use. The weight of this complete outfit is exactly 2 pounds.

Price complete, \$6.50 Extra double dry plate holders, each, . . . \$1.40
Telescopic "y" shaped bicycle support, 1.50

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

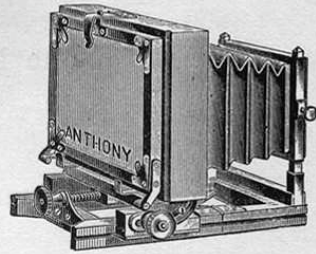
The Patent Bijou Camera.

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.

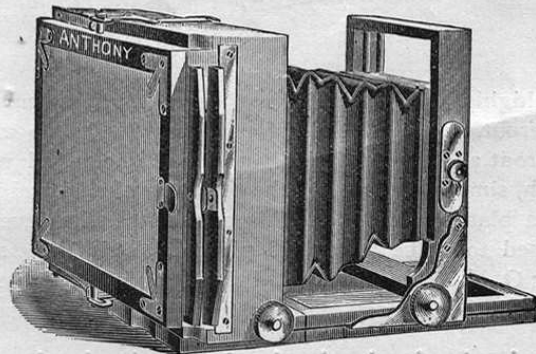
It has a sliding front, hinged ground glass, and folding bed, which is provided with a novel arrangement for fixing it in position, enabling the operator to adjust it in a few seconds. It is made of highly polished mahogany, with flexible bellows and brass mountings, making a remarkably elegant little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

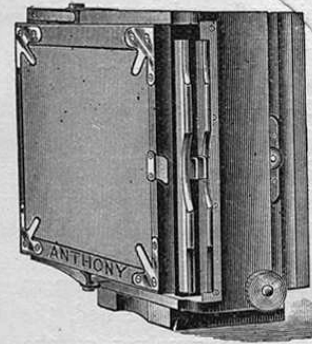
Price of camera, with one double holder, \$6.75
 With swing back, 9.00
 Price of patent improved double dry plate holders, 3¼ x 4½ each, 1.40



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.

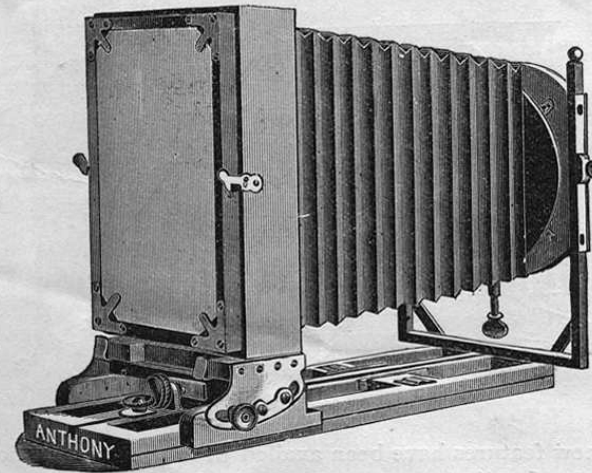


It is provided with rising front and single swing and is adapted to front focus, having the double rack and pinion movement.

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.
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

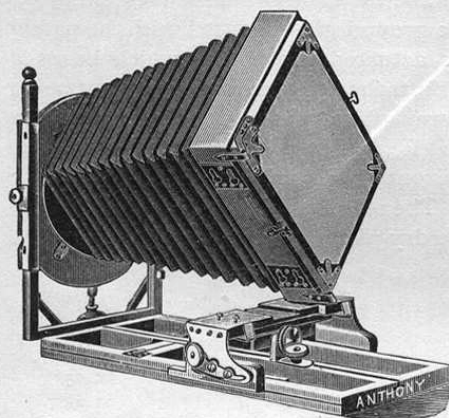
Anthony's Patent Novelette View Cameras.



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 horizon-

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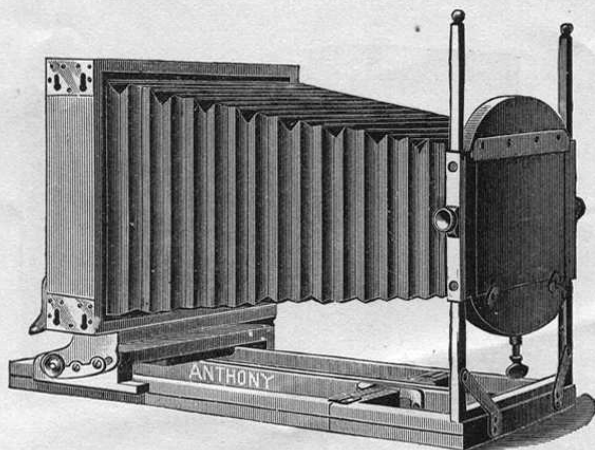
tally with equal ease, the change of position being effected very quickly. The rear part of the camera is separated from the bed by merely pushing it from left to right, the keyhole slots releasing the heads of the screws.



Showing Method of Reversing Camera.

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.

They are made with as long a bellows as possible, the 5 x 8 being about four inches longer than those of the ordinary kind. The ground glass is hinged to the camera.



Several new features have been availed of in the construction of this camera, to wit: In all sizes except 4x5 the bed may be instantly rendered rigid, *without the use of screws*, by means of a brace of patent hooks that hold the two sections of the bed with great firmness. In the case of the 4 x 5 size, the bed is fastened with a sliding plate.

The rabbet commonly found on the plate holder is dispensed with, and instead it is placed on the camera, thus saving the otherwise additional weight rendered necessary for twelve such rabbets when made on

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the plate 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.

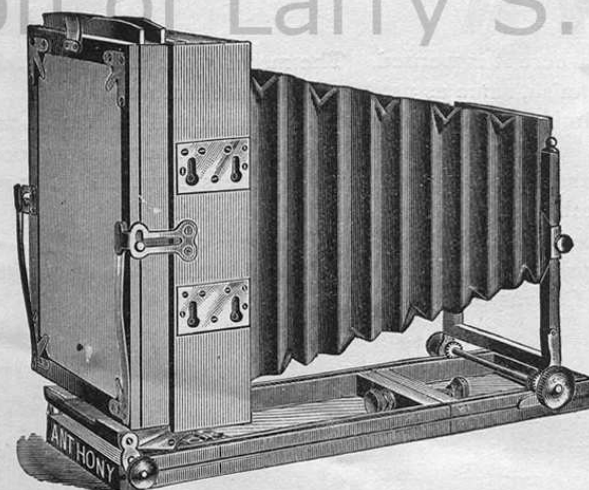
The Novelette occupies less space than any other view camera of the same capacity except our Fairy, and is packed in our telescopic brass bound Canvas Carrying Case.

When packed, the camera should always be put in a vertical position.

	Without Swing.	Single Swing.	Double Swing.
4½ x 6½, including one Novelette double dry plate holder,	----	\$20.00	----
5 x 7 as above	----	20.00	\$23.00
6½ x 8½, "	----	25.00	28.00
8 x 10, "	----	30.00	33.00
10 x 12, "	----	42.00	45.00

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

Front Focus Novelette Camera.



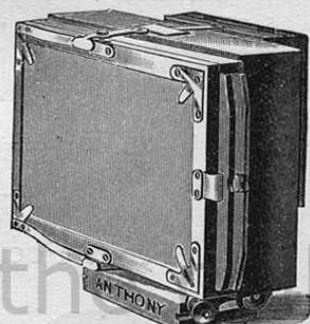
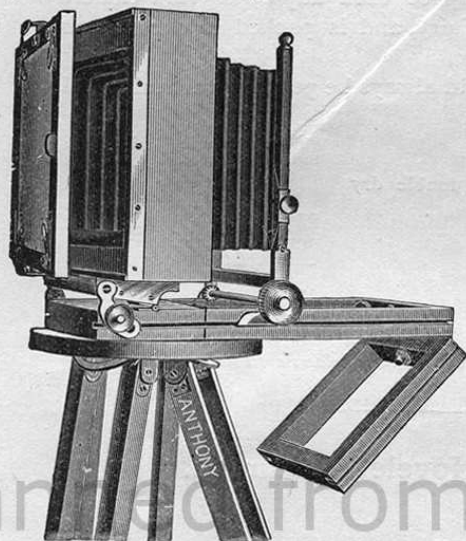
WITH the exception of the regular Novelette, Fairy and Phantom Cameras, this is the lightest and most compact reversible Camera extant. The body of the Camera is made of same shape as the holder, and is reversed more easily and quickly than any other in the market. It occupies only one-half the space 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 and

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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.

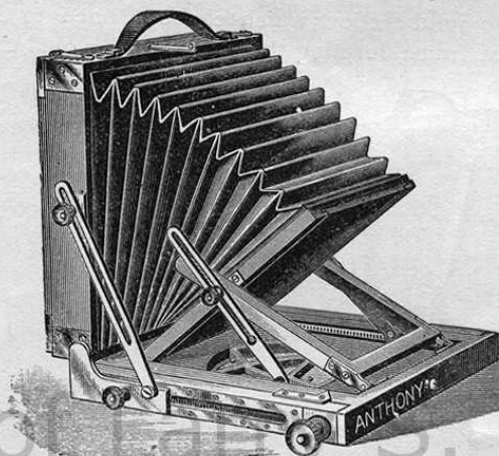
It is fitted with the Eclipse double dry plate holder, which is included in price of Camera quoted below. Also one of our telescopic brass bound Canvas Carrying Cases.

Size	Plain.	Single Swing.	Double Swing.	Extra Double Zephyr Holders, Each.	Extra Double Eclipse Holders, Each.
5 x 7	----	\$23.00	\$25.50	\$1.25	\$1.25
5 x 8	----	24.00	27.00	1.35	1.35
8 x 10	----	34.50	37.50	1.85	1.85
10 x 12	----	45.00	50.00	----	6.00
14 x 17	----	70.00	75.00	----	10.00

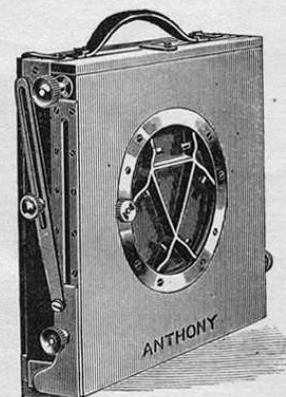
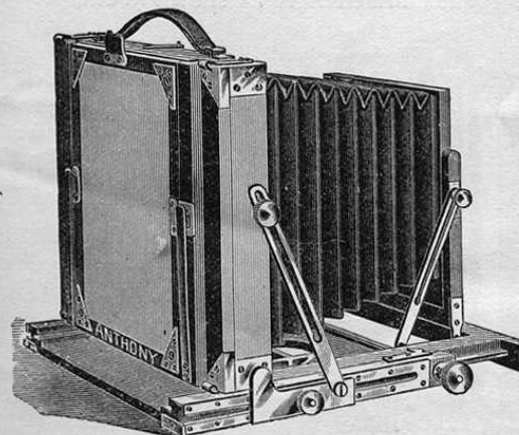
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The Anthony Compact Camera

IS a recent improvement in folding cameras, similar in effect to the noted English makes. This camera is constructed with reversible back, which makes it almost square when folded, and measures (5 x 8 size) $9\frac{1}{2} \times 9\frac{1}{2} \times 3\frac{1}{8}$ inches. The bed telescopes with rack and pinion, and when closed for carrying, forms the outside of the box. The bellows has an extension (5 x 8 size) of 16 inches, and the telescopic bed makes it



capable of use with very short focus lenses. The tripod top is built into this camera, and is of brass, arranged in such a manner that it revolves freely, thus giving the advantage of changing the field without moving the tripod legs. The ground glass is attached with our patent spring



action, which keeps it out of the operator's way and prevents its becoming detached from the box, and the entire instrument, with ground glass and double holder, weighs only $5\frac{1}{2}$ pounds.

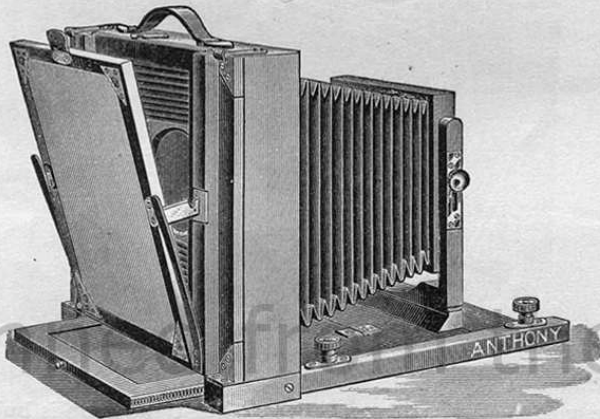
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Prices, with zephyr holder and carrying case :

5 x 7, single swing	---\$28.00	6½ x 8½, single swing	---\$35.00
5 x 8, " " "	--- 30.00	8 x 10, " " "	--- 40.00

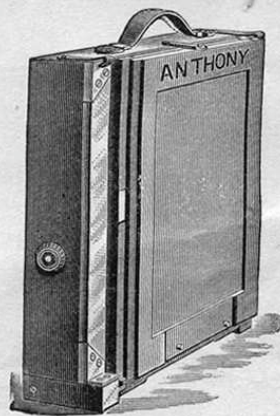
The Vincent Camera.

IS a new style of camera, constructed on the folding principle, the bed being in two solid sections which telescope, one into the other and fold closely to the frame, forming the back of the closed camera. The



OPEN.

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, pro-



CLOSED

vided 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

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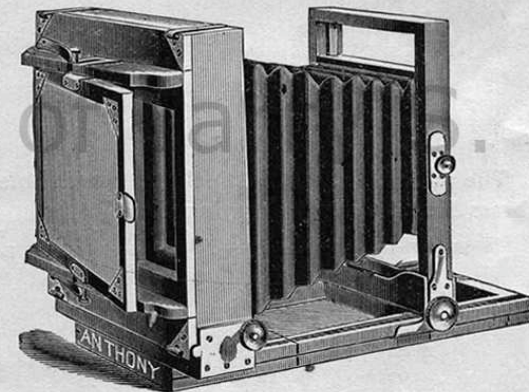
with reversible backs, which render them nearly square in shape and very convenient for carrying. The ground glass is attached to camera by means of our patent springs, and is therefore not liable to get in the way or become detached. The bellows has a capacity, in the 5 x 8 size, of extension to the 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	...\$20.00	6½ x 8½, single swing	...\$22.50
5 x 8, " " "	... 21.00	8 x 10, " " "	... 26.00

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.

Anthony's "Normandie" Reversible Back Camera.

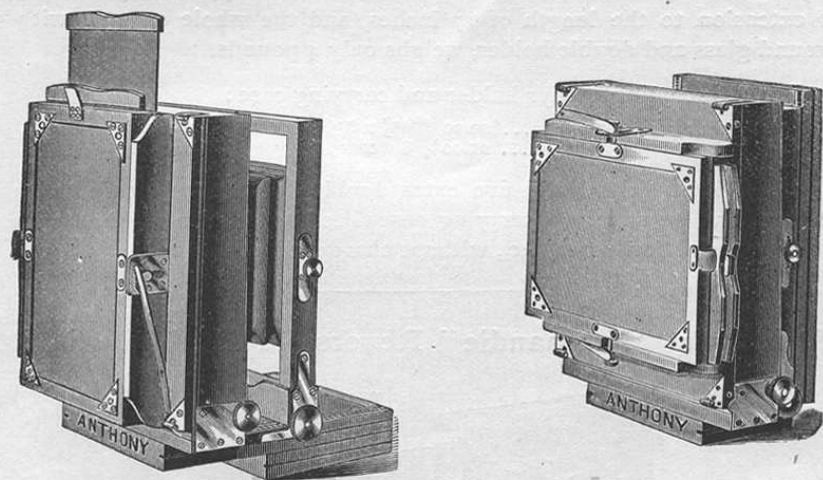


THIS is the lightest, most compact and easily adjustable, reversible back camera in the market. It is of highly polished mahogany, the metal work having the draw file finish, like that used on the finest mathematical instruments. It is provided with our patent adjustable spring actuated ground glass, 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

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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.

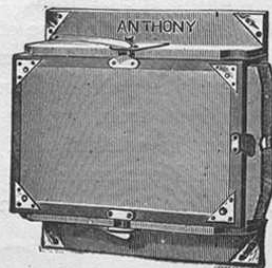
Size.	Single Swing.	Double Swing.	Extra Double Zephyr Holders, Each, to 8-10.	Extra Double Eclipse Holders, Each.
4 x 5	\$15.00	\$17.00	\$1.20	
4½ x 6½	18.00	20.00	1.25	\$1.25
5 x 7	18.00	20.00	1.25	1.25
5 x 8	20.00	22.00	1.35	1.35
6½ x 8½	22.00	25.00	1.60	1.60
8 x 10	25.00	28.00	1.85	1.85
10 x 12	35.00	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.

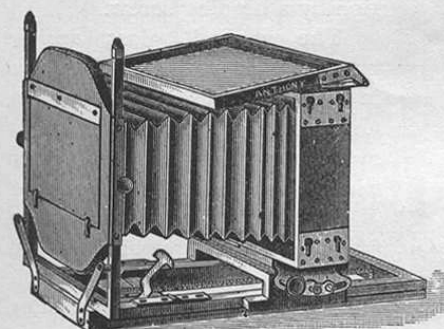
For 4 x 5 Cameras, \$4.00	For 6½ x 8½ Cameras, \$5.00
" 4½ x 6½ " 4.50	" 8 x 10 " 6.00
" 5 x 7 " 4.50	" 10 x 12 " 8.00
" 5 x 8 " 5.00	" 11 x 14 " 9.00



Catalogue for Amateurs.

The Fairy Camera.

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.



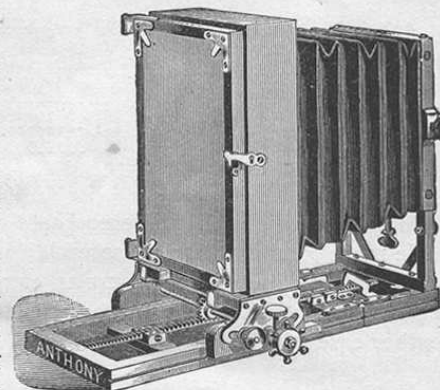
With Stereo Attachments, used Horizontally.

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.

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 hardwood, 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.



Without Stereo Attachments, used Vertically.

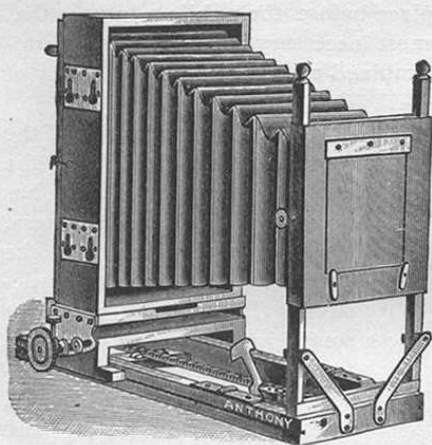
Several new features have been availed of in the construction of this camera.

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.

Second.—The rabbet commonly found on the plate holder is dispensed with, and is placed on the camera instead, thus saving the

Catalogue for Amateurs.

additional weight and the no inconsiderable item of bulk, amounting to nearly an inch, where the customary six double holders are carried.



Without Stereo Attachments.

Third.—The camera is focused with a long, continuous metallic rack, cog wheel and pinion, the latter being firmly held in position by a binding screw.

The ground glass springs backward in its frame, like that in the regular Novelette Camera, and is held tightly in position by metallic spring corners. When windy this is a decided advantage.

The Fairy Camera is made in finely polished Circassian walnut, the metal work being nickel-plated, thus giving it a most elegant appearance.

At present it may be had in four sizes, as follows :

Including one Double Dry Plate Holder.

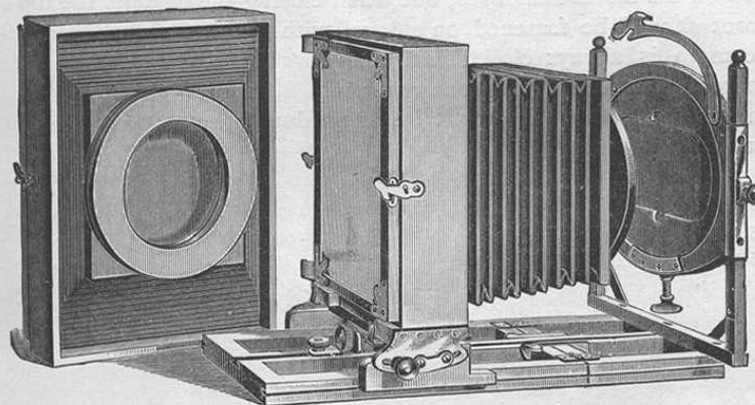
4 x 5, without stereo attachments	\$24.00
4 1/4 x 6 1/2, " " "	28.00
5 x 8, " " "	30.00
5 x 8, with " " "	30.00
6 1/2 x 8 1/2, " " "	33.00
8 x 10, " " "	40.00

Naturally those without stereoscopic attachments are still lighter and a trifle more compact than those with, and may be preferred by persons who desire to make single portraits or views only. When six holders are purchased at once with the camera, the extra five holders are put in a leather case with sling, gratis.

Catalogue for Amateurs.

Anthony's Patent Duplex Novelette Camera.

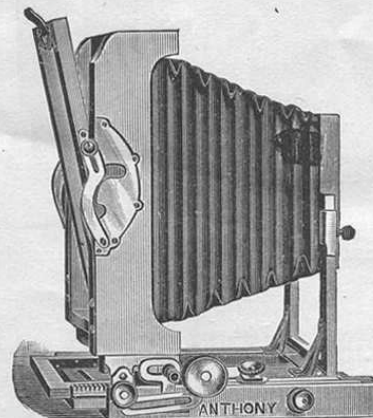
CONSISTING of an 8 x 10 bellows and ground glass, with a 5 x 8 camera, and an 11 x 14 bellows and ground glass, with an 8 x 10 camera, making two cameras in one.



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	Price complete for $\frac{11 \times 14}{8 \times 10}$ with one
Patent Double Dry Plate Holder	Patent Double Dry Plate Holder
for each size, and carrying case for	for each size, and carrying case for
each, \$36.00	each, \$65.00

Anthony's Phantom Camera.



Camera arranged for short focus.

IN issuing this camera, every care has been taken to produce one that would be *compact, light, strong, and easily assembled.* It has no

complicated parts to get out of order, and the different parts will be found interchangeable.

The camera is reversed in same way as our Novelette and Fairy Camera, by the keyhole slots and screw heads. The front is raised or lowered on the metal standards, but when closing the camera, the top of the front should be fastened on a level with the top of the standards. The camera is always closed with the *plate horizontally*, and hence is always ready for viewing without reversing.

The price includes one patent Phantom double holder and new style telescopic case.

Size.	Longest Focus.	Price.
4½ x 6½,	16 inches,	\$20.00
5 x 7,	18 "	25.00
5 x 8,	18 "	27.50
6½ x 8½,	20 "	30.00

Anthony's Telescopic 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 these cases with all



our Novelette and Phantom Cameras, without extra charge.

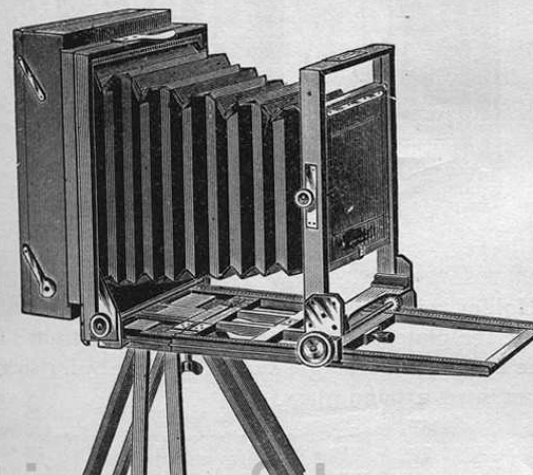
Size.	Price.	Size.	Price.
4 x 5,	\$1.60	6½ x 8½,	\$2.00
4½ x 6½,	1.75	8 x 10,	3.00
5 x 7,	1.75	10 x 12,	3.50
5 x 8,	1.75	11 x 14,	4.00

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

Blair's Patent Extensions.

THE only practical device for using plates of a larger size than provided 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.



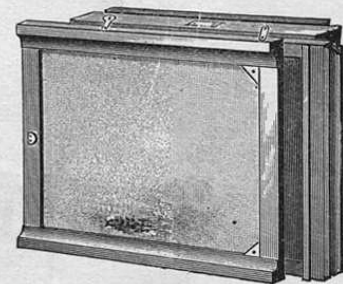
New Model Extension applied to Camera.

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

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

1540, 5 x 8 Extens'n for 4½x 5½ Camera..	\$5.00
1541, 6½x 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 " 6½x 8½ "	.. 7.00
1545, 10 x 12 " 5 x 8 "	.. 9.00
1546, 10 x 12 " 6½x 8½ "	.. 9.00
1547, 11 x 14 " 8 x 10 "	.. 11.00



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

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.

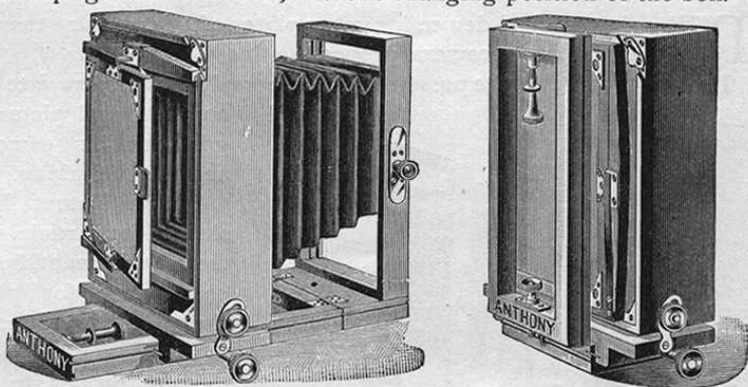
Bellows Extensions and other special patterns to order. A more complete description and price list of these goods will be sent upon application

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

Catalogue for Amateurs.

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.

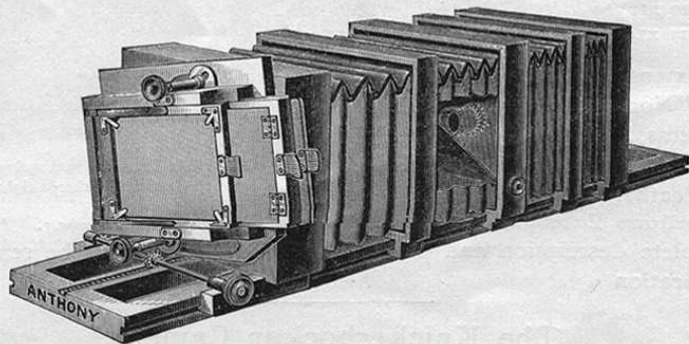
5x7-----	\$12.00	6½x 8½-----	\$16.00
5x8-----	13.50	8 x 10-----	22.50

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.

Catalogue for Amateurs.

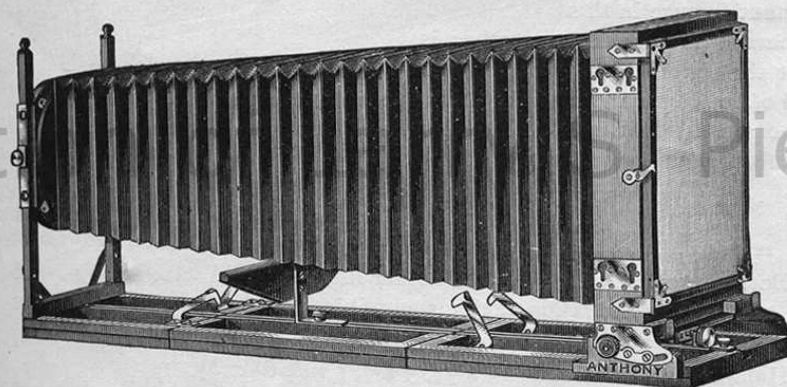
An important feature in this camera, that is found in no other, is that the center-board with lens can be used at the end of the camera, converting it at once into an extra long copying camera. This will be found very advantageous in enlarging small pictures by one operation.

For table of enlargements and general instructions see Catalogue, page 22.

Price-----	\$12.00
Special Holders, 3¼ x 4, or 3¼ x 4¼.....	1.50

Anthony's Long Bellows Novelette Camera,

For View, Portrait and Copying Work.

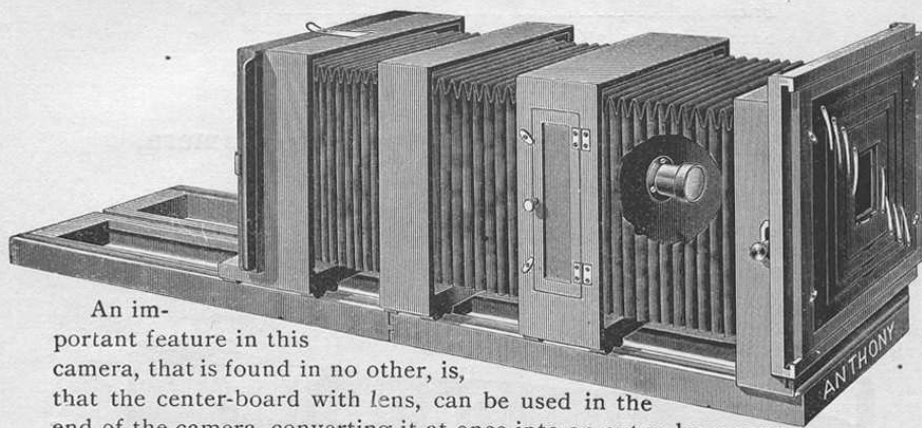


THIS instrument is a most useful camera for view and portrait photography and enlargements combined. It consists of a regular 8 x 10 Novelette Camera, made however with an extra long bellows and arranged with an extension to the bed which gives it a focal length of 32½ inches. As shown in the cut, the 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 7 pounds. Price, including one of our new style double Novelette holders and carrying case, \$40.00.

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, $6\frac{1}{2} \times 8\frac{1}{2}$ -----	\$30.00	Size, 14 x 17 -----	\$72.00
" 8 x 10 -----	35.00	" 17 x 20 -----	90.00
" 10 x 12 -----	48.00	" 18 x 22 -----	100.00
" 11 x 14 -----	60.00	" 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— $4\frac{1}{2} \times 5\frac{1}{2}$, 5 x 7, 5 x 8, $6\frac{1}{2} \times 8\frac{1}{2}$.

" " 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 $3\frac{1}{4} \times 4$, $3\frac{1}{4} \times 4\frac{1}{4}$, 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.]

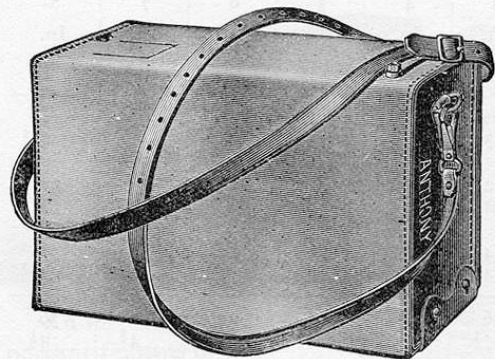
FOCUS OF LENS.	TIMES OF ENLARGEMENT AND REDUCTION.							
	1	2	3	4	5	6	7	8
In.	In.	In.	In.	In.	In.	In.	In.	In.
2	4	6	8	10	12	14	16	18
	4	3	$2\frac{3}{4}$	$2\frac{1}{2}$	$2\frac{2}{5}$	$2\frac{1}{3}$	$2\frac{2}{7}$	$2\frac{1}{4}$
$2\frac{1}{2}$	5	$7\frac{1}{2}$	10	$12\frac{1}{2}$	15	$17\frac{1}{2}$	20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

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 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 lesser, 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.

The Apollo Camera

IS a magazine, detective Camera for $3\frac{1}{4} \times 4\frac{1}{4}$ 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 the outside of camera serving to remove the exposed plate, while a similar lever brings into focus for exposure a fresh plate. The action of the levers serve to

rotate a registering dial, in view on outside of the box, causing it to record each exposure, thus 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.

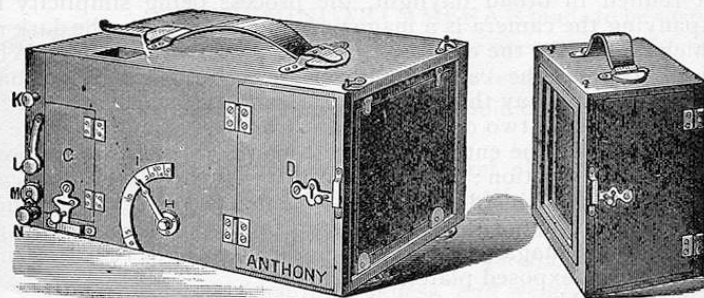
Price, including carrying case and fifty slides for dry plates, or films..... \$25.00

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.



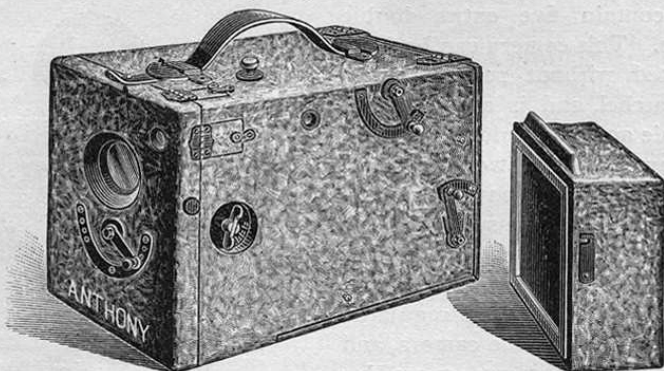
It is made only in one size, namely, 4 x 5.

PRICES.

	Instantaneous Landscape Lens.	R. R. Hemispherical Lens.	Dallmeyer R. R. Lens.
Climax Detective mahogany camera, with six, 4 x 5 dry plate holders, short satchel and rear compartment...	A \$15 00	B \$28 00	C \$52 00
Covered with black grained leather and with metal work oxidized black, landscape lens, long satchel, six holders and rear compartment.....	D 20 00	E 33 00	F 57 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 x 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.

The Hetherington Magazine Camera

IS a magazine camera of the highest grade of workmanship, and is adapted to carry either plates or films. The lens is of the rapid hemispherical type and is of the best quality. No working parts extend beyond the surface of the box, the whole being neat, compact and portable. Shutter is always set ready for use. This, and the fact that there is no slide to draw, makes the camera of especial value for snap-shot work. No hinges or springs, no doors to open. Every part is under control, nothing being left to chance.



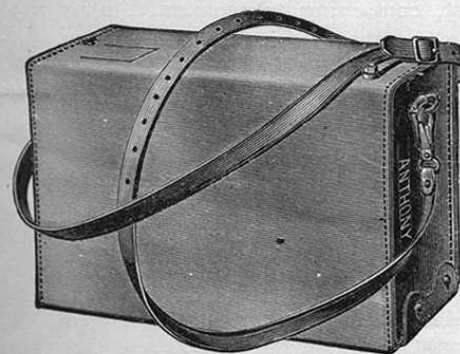
This camera is made in two styles.

PRICES.

No. 1. 4 x 5, for 12 plates or films, fitted with Darlot Lens.....	\$45 00
No. 2. 4 x 5, for 6 plates or films, fitted with Darlot Lens.....	25 00

The Apollo Camera

IS a magazine detective Camera for $3\frac{1}{4} \times 4\frac{1}{4}$ 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 the outside of camera serving to remove exposed plate, while a similar lever brings into focus for exposure a fresh plate. The action of the levers serves to rotate a registering dial, in view on outside of the box, causing it to record each exposure, thus enabling the operator to tell at a glance just how many unexposed plates he has.

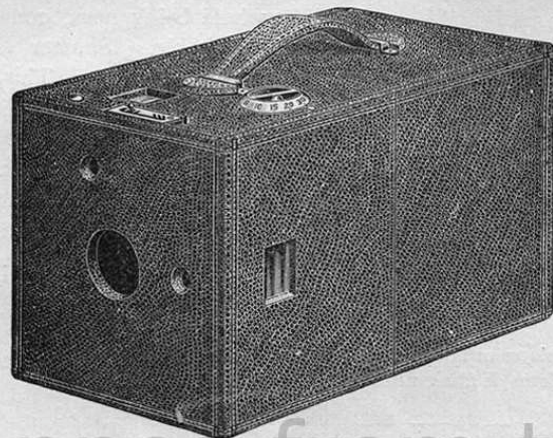
The lens is a Steinheil aplanatic, and is fitted with a shutter, working for either time or instantaneous exposures, and changed from one to the other by the mere turning of a button. Two screened finders, one for upright and the other for horizontal views, are neatly fitted to this camera, making it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

Price, including carrying case and fifty slides for dry plates or films, \$25.00

The Hawk-Eye Camera.

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.

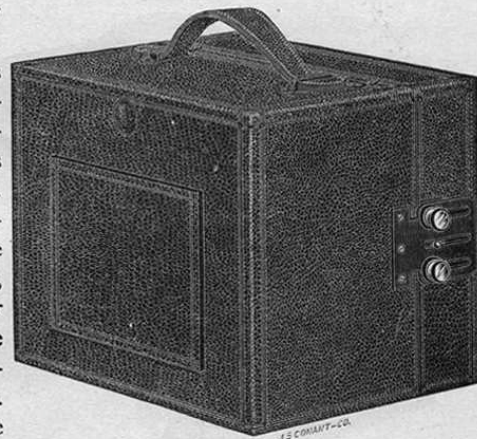
PRICE LIST.

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
4 x 5 Hawkeye, wood case, E. A. Rapid Lens	30.00
4 x 5 Hawkeye, leather case, " " "	23.00
4 x 5 Hawkeye, wood case, Dallmeyer "	52.00
4 x 5 Hawkeye, leather case, " " "	55.00

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 x 7½ x 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.

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 25 5 x 7 Exposures	3.00
Blair's Film, for 50 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 and Double Sliding Front.

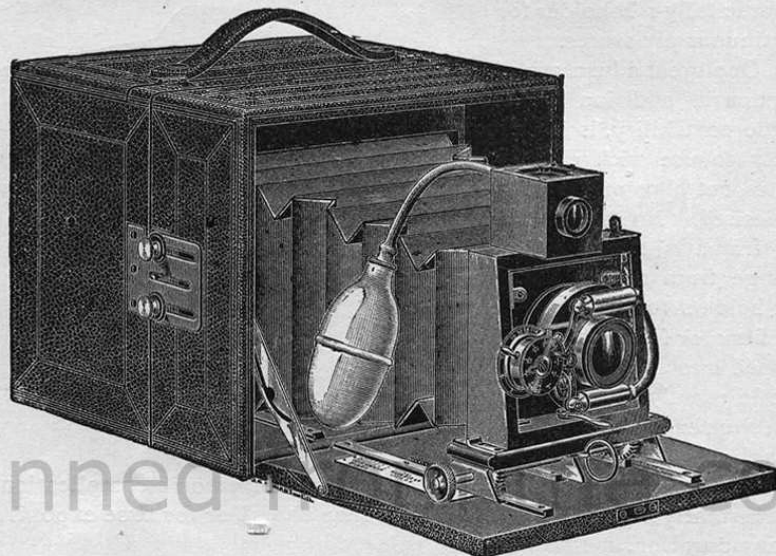
THE strength of the above combination, from a photographic standpoint, will be readily recognized, and the beautiful finish and fine workmanship of camera, lens and shutter will also tend to make this the most desirable outfit of the season for those who want the very best.

Catalogue for Amateurs.

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

Catalogue for Amateurs.

The Century Hawkeye.

A 6½ x 8½ Folding Hand or Tripod Camera, fitted with double swing, double rising and falling front, Bausch and Lomb automatic diaphragm shutter, Rapid Universal or Alvan G. Clark Lens, Aluminium shutter and lens mountings, improved roll holder, three feather-weight plate or cut film holders, and best morocco leather covering. It is the first practical 6½ x 8½ combined hand and tripod camera, very compact, and no heavier than 5 x 7's of other manufacture. In appearance and operation it is identical with the No. 2, 5 x 7 Folding Hawkeye, except that the opening for holders is at the side instead of the top.

PRICE.

Complete, as above.....\$100 00
 Without Roll Holder..... 90 00
 With Lens or Shutter..... 45 00

Blair Rapid Rectilinear Lens.

THIS lens is made complete in the Boston factory, the glass used being of the superior quality prepared in Jena, Germany, and universally recognized as admirable in every way for photographic purposes.

The success of this new departure in manufacturing high grade lenses has been such that it has been found necessary to put in several new grinding machines and otherwise enlarge the facilities in this department.

The Blair Rapid Rectilinear Lens was designed especially for use with the Hawkeye Camera, but we are now prepared to supply them separately, and at a price lower than that of any other lens of equal quality. For the present but three sizes are made, as below:



Nos. 1575-1577

Cat. No.	No.	Size of Plate.	Diameter of Lens.	Diameter of Flange.	Back Focus.	Price.
1575	1	4 x 5	1½ in.	2¼ in.	6 in.	\$12 00
1576	2	5 x 7	1¾ "	2½ "	8 "	20 00
1577	3	6½ x 8½	1¾ "	2¾ "	9½ "	30 00

The Columbus Camera.

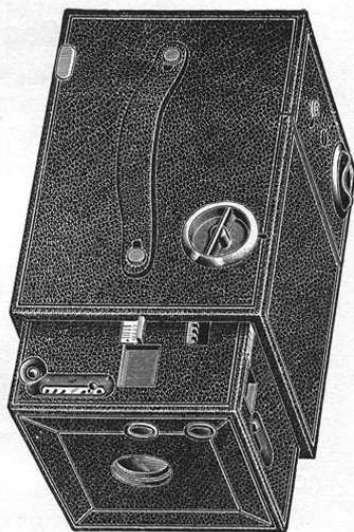
THE "Columbus" is the result of continued experiment with a view to produce a camera of the most simple and reliable construction, arranged to make the largest number of continuous exposures, with the least bulk, least weight, and least trouble to the user, at a very moderate price.

A reference to the illustration will show its advantages. Size, 8 x 6¼ x 5½ inches. Weight, 3¾ pounds. Capacity, 100 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. High priced, it may be considered, but if you care to possess the most marvellously beautiful, most wonderfully compact and most perfect working piece of photographic apparatus ever devised, you will not regret the investment.

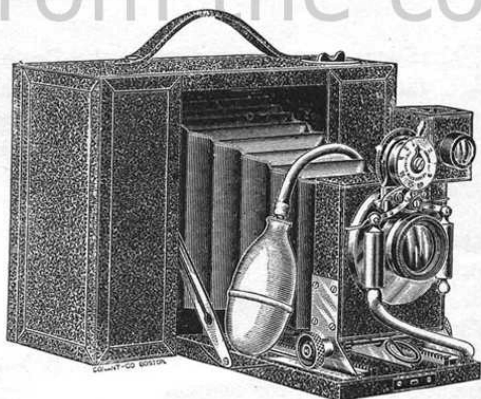
Wood cuts and type can convey but a poor idea of the appearance of the camera. Every exposed part inside and out, when folded or unfolded, is covered with the finest selected morocco leather, except the brass work, which is hand finished and lacquered.

It is quite like a book when folded, and only 3½ in. 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 inch, 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 3 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, 50 4 x 5 pictures, without reloading.

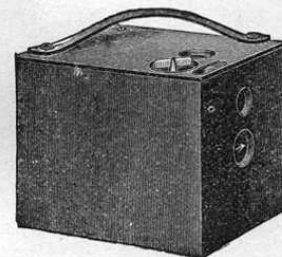
Price, with roll of film for 50 exposures\$60 00
Attachment for plates, with one F. W. Holder.....10 00



Unfolded for use.

The Bull's-Eye Camera

IS a small film camera for circular or rectangular pictures. No dark room is necessary for reloading, as the films are supplied and fitted in such a manner that the whole operation may be performed in broad daylight. The camera has a capacity for twelve pictures. The shutter is always set ready for use. A finder on the top of the box serves to locate the object. The camera weighs less than two pounds and is very small, measuring 5¼ x 4¾ x 4½ inches. Sold in wooden packing box, with instruction book and one light proof cartridge.



3½ x 3½ leather covered, with one cartridge, \$8.00
Extra cartridges for 12 exposures,60
4 x 5, leather covered, with one cartridge, 15.00
Extra cartridges for 12 exposures,90
Developing and printing outfits, 2.00

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 in 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. They are made in the following sizes only:

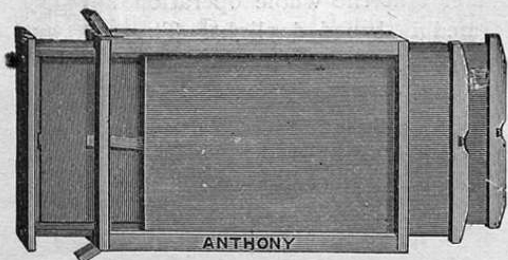
3½ x 4½, each \$1.60 | 4 x 5, each \$1.60

Anthony's Film Cutter.

AN instrument for measuring and cutting roll films. In practice, it is found that during the rolling up of the film upon the take-up roller the punctures are apt to be squeezed back again into the plane of the film or else smoothed down, so as to be barely perceptible. Again, when the film is cut by a knife or by scissors it frequently happens that, through carelessness or want of skill, the cut is not correctly made. With this film cutter actual measurement is made, the cutting being done by tearing against a metal edge, just as a check is torn from a check-book by the help of a ruler.

Price.....75 cents.

Anthony's Patent Eclipse and Novelette Double Dry Plate Holders or Shields.



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 of 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 being 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 of Plate Holders.	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
$1\frac{1}{2}$ 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.

Fairy Plate Holders.

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

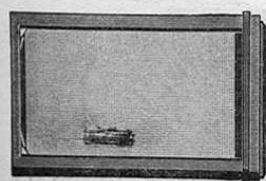
$4\frac{1}{2}$ x $6\frac{1}{2}$, each	\$1.45	$6\frac{1}{2}$ x $8\frac{1}{2}$, each	\$2.00
5 x 8 "	1.65	8 x 10 "	2.45

Simplex Double Holders.

THESE are the same style holders as the Zephyr, but are fitted with hard rubber slides.

$2\frac{1}{2}$ x $2\frac{1}{2}$, each	75c.
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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 black-board registering slides.

PRICES.

No. 2090, $3\frac{1}{2}$ x $4\frac{1}{2}$	\$1.00	No. 2095, 5 x 8	\$1.35
" 2091, 4 x 5	1.00	" 2096, $6\frac{1}{2}$ x $8\frac{1}{2}$	1.60
" 2092, $4\frac{1}{2}$ x $5\frac{1}{2}$	1.00	" 2097, 8 x 10	1.85
" 2093, $4\frac{1}{2}$ x $6\frac{1}{2}$	1.25	" 2098, 10 x 12	3.50
" 2094, 5 x 7	1.25	" 2099, 11 x 14	4.00

Blair's Feather-Weight Mahogany Plate Holders.

SAME style as the regular Feather-Weight, but made of mahogany, French polish, and fitted with hard rubber slides.

PRICES.

No.	Size.	Price.	No.	Size.	Price.
2090 C	$3\frac{1}{4}$ x $4\frac{1}{4}$	\$1 45	2095 C	5 x 8	\$2 00
2091 C	4 x 5	1 50	2096 C	$6\frac{1}{2}$ x $8\frac{1}{2}$	2 40
2092 C	$4\frac{1}{4}$ x $5\frac{1}{2}$	1 50	2097 C	8 x 10	2 90
2093 C	$4\frac{1}{4}$ x $6\frac{1}{2}$	1 90	2098 C	10 x 12	5 00
2094 C	5 x 7	1 90	2099 C	11 x 14	5 50

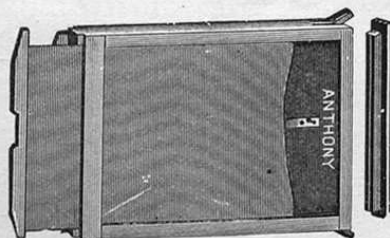
Blair's Feather-Weight Double Film Holder.

THIS holder does away entirely with Film Carriers, and measures but 7-16 inch in thickness, up to and including the 8x10 size. They are made and kept in stock to fit in place of and focus with regular Feather-Weight Plate Holders. The film is easily inserted and withdrawn, the operation being simply to withdraw the dark slide and insert the film, which is kept perfectly flat in the holders. They do not, however, focus with holders having back springs.

PRICES.

No.	Size.	Price.	No.	Size.	Price.
2090 B	$3\frac{1}{4}$ x $4\frac{1}{4}$	\$1 00	2095 B	5 x 8	\$1 35
2091 B	4 x 5	1 00	2096 B	$6\frac{1}{2}$ x $8\frac{1}{2}$	1 60
2092 B	$4\frac{1}{4}$ x $5\frac{1}{2}$	1 00	2097 B	8 x 10	1 85
2093 B	$4\frac{1}{4}$ x $6\frac{1}{2}$	1 25	2098 B	10 x 12	3 50
2094 B	5 x 7	1 25	2099 B	11 x 14	4 00

Anthony's Patent Zephyr Double Dry Plate Holders.



ARE similar to the Detective Holders, but with paper slide. They can be used with any of our Amateur Outfits, and when fitted with pins at the sides, can be attached to our Novelette Camera.

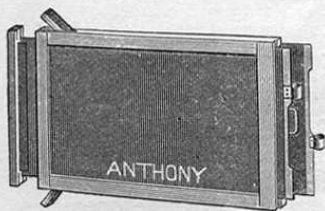
4 x 5,	\$1.20	5 x 8,	\$1.35
4 1/4 x 6 1/2,	1.25	6 1/2 x 8 1/2,	1.60
5 x 7,	1.25	8 x 10,	1.85

Phantom Holders

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

4 1/4 x 6 1/2, each,	\$1.70	5 x 8, each,	\$1.80
5 x 7, "	1.75	6 1/2 x 8 1/2, "	2.20
8 x 10, each,	\$2.65		

Film Holders.



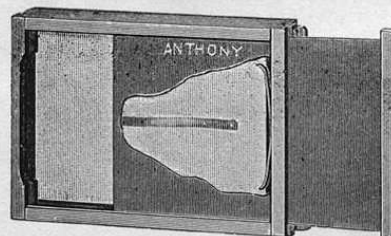
THESE HOLDERS are for use with our Climax Negative Films, and for compactness, lightness and practicability are unequaled. They are made in the same style as our Patent Novelette Holders for glass plates; but, being adapted to the use of the Climax Films,

are consequently very much lighter than they could be made to carry a heavier plate.

2 1/2 x 2 1/2, each,	\$0.75
4 x 5, "	1.20
4 1/4 x 6 1/2, "	1.25
5 x 8, "	1.35
6 1/2 x 8 1/2, "	1.60
8 x 10, "	1.85

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 1/4 x 6 1/2	\$1.25
5 x 7	1.25
5 x 8	1.35

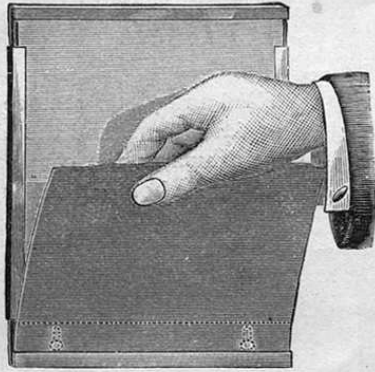
Anthony's Patent Metal Film Kits.



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:

2 1/2 x 2 1/2, each	\$0.05	5 x 7, each	\$0.11
3 1/4 x 4 1/4, " . . . . .	.05	5 x 8, " . . . . .	.13
4 x 5, " . . . . .	.06	6 1/2 x 8 1/2, " . . . . .	.15
4 1/4 x 6 1/2, " . . . . .	.09	8 x 10, " . . . . .	.18

Barnett's Patent Universal Film Carrier.



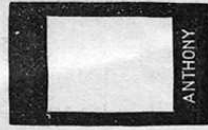
THE Universal Film Carrier will carry Films perfectly flat; fit any holder now made; and by means of a movable end, easily adjust any unevenness of edge, and is perfect for the use intended.

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	6¼ x 8¼	3.25
4½ x 6¼	2.50	8 x 10	4.00

Inside Dry Plate Kits.



THIN WOODEN FRAMES to hold small sized plates, fitting in any ordinary plate holder, thus enabling the amateur who has a large camera, to use small plates as well as large ones.

To fit Holders.	Each.	To fit Holders.	Each.
4 x 5—3½ x 4½	\$0.25	8 x 10—4½ x 6¼, 5 x 7, 5 x 8, 6¼ x 8¼	\$0.35
5 x 8—3½ x 4½, 4 x 5, 4½ x 6¼	30	10 x 12—8 x 10	55
6¼ x 8¼—4 x 5, 5 x 8, 4½ x 6¼, 5 x 7	30	11 x 14—8 x 10, 10 x 12	60
		14 x 17—11 x 14	75

Extra Parts of Apparatus.

	3¼ x 4¼	4 x 5	4¼ x 6½	5 x 7	5 x 8	6½ x 8½	8 x 10	10 x 12	11 x 14	14 x 17
Press Board Slides for Dble. D. P. Holders.	\$.10	.10	.15	.15	.15	.20	.20	.35	.45	.75
Rubber Slides for Dbl. D. P. Holders.	\$.15	.20	.25	.30	.30	.40	.50	1.00	1.30	2.25
Front Boards for Dry Plate Outfits.	\$.20	.20	.20	.20	.20	.45	.45	---	---	---
Polished Front Boards for Noveltie Cameras.	\$.25	.25	.30	.50	.50	.50	.50	.60	.60	.70
Polished Front Boards for Non-Stereo Noveltie Cameras.	\$.30	.30	.30	.30	.30	.50	.50	.70	.70	.70
Polished Front Boards for Walnut Fronts for Fairy Cameras.	\$.60	.60	.60	.60	.60	.60	.60	---	---	---
Polished Front Boards for Rever. Back and Phantom Cameras.	\$.45	.45	.45	.45	.45	.45	.45	.60	.60	.60
Polished Front Boards for Victor Cameras.	\$.25	.25	.25	.25	.25	.45	.45	---	---	---
Straight Rubber Bel- lows for Dry Plate Outfits.	\$.1.25	1.25	1.35	1.50	1.50	2.00	2.50	---	---	---
Cone Rubber Bellows for Noveltie and Fairy Cameras.	\$.2.00	2.00	2.50	3.00	3.00	3.30	4.00	5.00	7.00	10.00
Cone Rubber Bellows for Rever. Back Cameras.	\$.2.75	2.75	3.25	3.25	3.75	4.50	5.50	7.75	11.00	---
Stereo Partitions for Cameras.	\$.1.00	1.00	1.15	1.20	1.20	1.25	1.30	1.30	1.30	1.30
Ex. Fine Ground Glass for Cameras.	\$.10	.10	.15	.20	.20	.25	.32	.50	.75	1.00
Focus Screws for Noveltie Cameras.	\$.1.75	1.75	1.75	1.75	1.75	1.75	1.75	---	---	---
Tripod Screws for Cameras.	\$.25	.25	.25	.25	.25	.25	.25	.50	.50	.50

Dry Plates.

AS the manufacture of dry plates has advanced and the many plate makers have come to more uniform manipulations in the working of the process, the plates produced have gradually been improving in all the qualities essential to good results, until it has become no easy matter to select any one make as pre-eminently the best for any and all kinds of work, and the operator is at liberty to make his own selection from the successful brands which are recognized by all as being reliable, or to experiment for himself in new directions. We supply at manufacturers' regular list prices, all regular brands, such as Climax, Cramer, Carbutt, Seed, Eagle, E. E. for hot climates, Forbes, etc., as follows:

3½ x 4½	Per doz., \$0.45	8 x 10	Per doz., \$2.40
4 x 5	65	10 x 12	3.80
4½ x 5½	75	11 x 14	5.00
4½ x 6½	90	14 x 17	9.00
4½ x 6½	1.00	16 x 20	12.50
5 x 7	1.10	17 x 20	13.00
5 x 8	1.25	18 x 22	15.50
6½ x 8½	1.65	20 x 24	18.50

Special sizes to order.

Anthony's Climax Negative Films.

(Transparent and Flexible.)

FOR PORTRAITS, landscapes and drop shutter work. Weight and space reduced to a minimum. 14 doz. films weigh less than 1 doz. glass plates. They are developed in the same manner as dry plates. They reduce halation and can be printed from either side of film.

Anthony's Climax Negative Films are made upon a substance of recent discovery which is admirably adapted to the manufacture of a perfect negative film, combining transparency, strength and toughness of composition, which renders them capable of being made so thin as almost to eliminate the question of weight and bulk in carrying. They are made with a fine mat surface which reduces halation, and are perfectly impervious to water. Can be sent by mail without danger of breakage.

3½ x 4½	Per doz., \$0.55	5 x 7	Per doz., \$1.40
4 x 5	.80	5½ x 7	1.50
4½ x 5½	.90	5 x 8	1.55
4½ x 6½	1.10	6½ x 8½	2.10
4½ x 6½	1.20	8 x 10	3.00

Postage extra.

A trial of these films will demonstrate their practical value.

Roll 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. This 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.
3¼ inches	108 inches	25 3¼ x 4¼	\$1 20
3¼ "	215 "	50 3¼ x 4¼	2 40
3¼ "	90 "	25 3½ x 3½	1 10
3¼ "	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
4¼ "	135 "	{ 40 4¼ x 3¼ or 25 4¼ x 5 or } { 22 4¼ x 5¼ or 20 4¼ x 6½ }	1 65
4¼ "	265 "	{ 80 4¼ x 3¼ or 50 4¼ x 5 or } { 48 4¼ x 5½ or 40 4¼ x 6½ }	3 30
4¼ "	505 "	100 4¼ 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
5¼ "	180 "	25 5¼ x 7	3 00
5¼ "	355 "	50 5¼ 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

Carbutt's Dry Plates and Films.

ECLIPSE AND ORTHO. 27.—Process and "A."						"B" 16 AND 20.—Special and Ortho. 23 and 25.					
Sizes.	Per Dozen.	Strippers Per doz.		Per Dozen.	Strippers Per doz.		Per Dozen.	Strippers Per doz.		Per Dozen.	Strippers Per doz.
3¼ x 4¼	\$.40			\$.38							
4 x 5	.60	\$.80		.55							
4¼ x 5½	.70	.90		.65							
4¼ x 6½	.80	1.05		.75							
4¾ x 6½	.90	1.10		.85							
5 x 7	1.00	1.25		.94		\$1.25					
5 x 8	1.13	1.45		1.05		1.45					
6½ x 8½	1.50	1.95		1.40		1.95					
7 x 10	2.00	2.45		1.80		2.45					
8 x 10	2.15	2.80		2.04		2.80					
10 x 12	3.40	4.40		3.25		4.40					
11 x 14	4.50	5.80		4.25		5.80					
14 x 17	8.10	10.50		7.65		10.50					
16 x 20	11.25	14.50		10.65		14.50					
17 x 20	11.70	15.15		11.05		15.15					
18 x 22	13.95	17.50		13.20		17.50					
20 x 24	16.65	21.15		15.75		21.15					

CELLULOID FILMS.

Require precisely the same treatment as Glass Plates. Coated with Eclipse, "B," and Orthochromatic 23 to 27 Emulsions.

Sizes.	Per doz.	Sizes.	Per doz.
3¼ x 4¼	\$.55	5 x 8	\$1.55
4 x 5	.80	6½ x 8½	2.10
4¼ x 5½	.90	8 x 10	3.00
4¼ x 6½	1.10	10 x 12	4.75
4¾ x 6½	1.20	11 x 14	6.25
5 x 7	1.40		

Any size made to order up to 20 x 49 inches.

CARBUTT'S LANTERN PLATES
On Specially Imported Thin Crystal Glass, 55 cents per dozen.

COLUMBIAN ANTI-HALATION PLATES.

Sens. 23 to 27.—Eclipse and Orthochromatic.			
Sizes.	Plain.	Strippers.	
3¼ x 4¼	\$.50		
4 x 5	.70		
4¼ x 5½	.80		
4¼ x 6½	.95		
4¾ x 6½	1.05		
5 x 7	1.15		\$1.40
5 x 8	1.30		1.55
6½ x 8½	1.75		2.10
7 x 10	2.20		2.65
8 x 10	2.55		3.06
10 x 12	3.95		4.75
11 x 14	5.25		6.30
14 x 17	9.45		11.35
16 x 20	13.15		15.50
17 x 20	13.65		16.40
18 x 22	16.30		18.65
20 x 24	19.70		23.70

Isochromatic and Non-Halation Dry Plates.

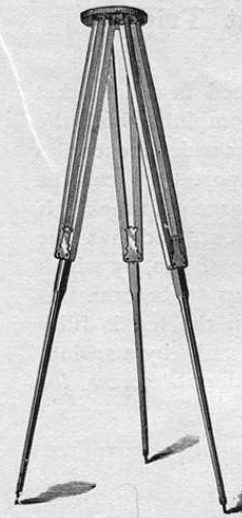
THE rapidly increasing popularity of Isochromatic and Orthochromatic plates for use either with or without color screens, for the more accurate rendition of color values, has led to the production of the Cramer Isochromatic Plates, at the following prices:

3¼ x 4¼	\$.55	8 x 10	\$3.00
4 x 5	.80	10 x 12	4.50
4¼ x 5½	.90	11 x 14	5.85
4¼ x 6½	1.10	14 x 17	10.80
4¾ x 6½	1.20	16 x 20	15.00
5 x 7	1.40	17 x 20	15.60
5 x 8	1.50	18 x 22	18.50
6½ x 8½	2.00	20 x 24	22.00

The Carbutt, Forbes and Eagle Orthochromatic Plates are at same prices as the regular brands of ordinary dry plates

Jointed Tripods.

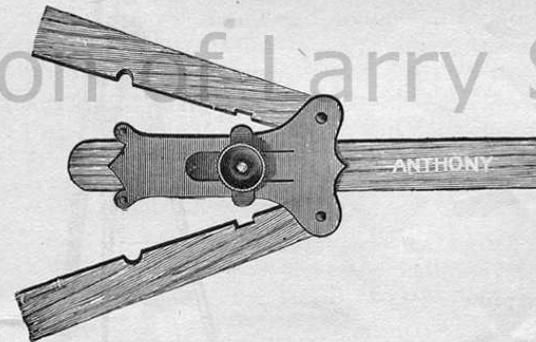
- No. 1, Anthony's Improved Folding Tripod, 6-in. circular top, \$2.25.
 - No. 2, Anthony's Improved Folding Tripod, 8-in. circular top, \$2.25.
 - No. 3, Jointed Tripod, folding iron top, adapted to large cameras, \$4.50.
 - No. 4, Telescopic Legs, adapted to Stereoscopic and 8 x 10 sizes, \$3.50
 - 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.
- Nos. 1, 2, 4 and 5 have patent adjustment for preventing accidental displacement of legs from top.



Anthony's Improved Nos. 1 and 2.



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



Showing Telescopic Folding Joint of Nos. 4 and 5.



Showing one leg of Telescopic Folding Tripod folded.

The Climax Tripod.

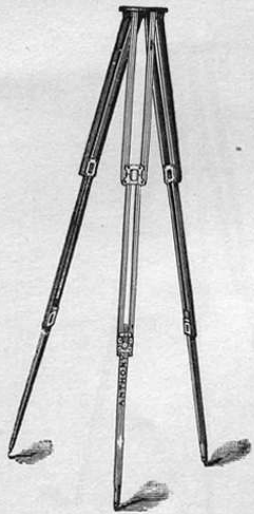
AS shown by the cut, this tripod folds in three joints, making it much more convenient to carry than the ordinary two jointed folding tripod. It resembles the Triplex Tripod in length, but is not telescopic. The legs may be left permanently in the top when folded, and the other ends being fastened by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



Price, \$3.50

Catalogue for Amateurs.

**Anthony's Patent Triplex
Tripod.**

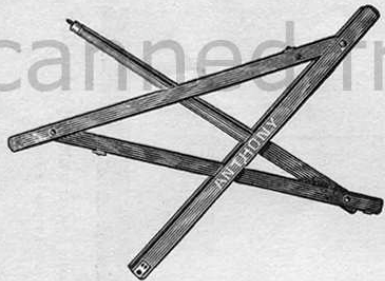


THIS is the finest finished in the market and perfectly rigid, combining both the folding and telescopic, besides which it occupies little space, and for transportation can be packed with clothing in a large grip sack. It is made of cherry throughout, and has the patent springs on under side of top, 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 Fairy Tripod.

(Patented February 23d, 1886.)



Showing one leg of Fairy Tripod partly folded.



Showing one leg of Fairy Tripod folded.



Showing Fairy Tripod set up ready for use.

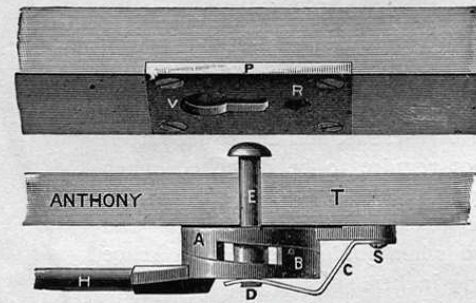
OUR aim has long been to make all apparatus connected with outdoor photography as light and compact as is consistent with strength and durability. Until now the tripod has successfully resisted all efforts in that direction. But at last we can offer to our customers a tripod which is a marvel of lightness, 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 cases for legs of above tripod, with shoulder straps, each, 2.50

Catalogue for Amateurs.

Clamp Tripod Top.

(Patented.)



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 price of tripod.

Compact Tripods.

A very compact tripod, light and portable, adapted to view and hand cameras of all sizes up to 8 x 10.

Price..... \$3.50

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.

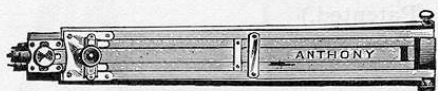
Size, closed, is only 2 inches in diameter.



Price.....\$4.00



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.

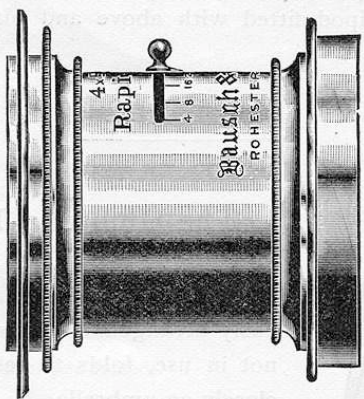
The legs are telescopic—folding twice—and the whole tripod when folded occupies a space only $3\frac{1}{2} \times 3\frac{1}{2} \times 23\frac{1}{2}$ inches.

Price.....\$5.00



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 iris diaphragms.

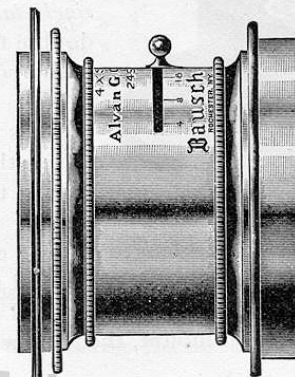


Cut full size No. 5.

Nos.	Large Stop Covers.	Medium Stop Covers.	Diameter of Lenses.	Back Focus.	Equivalent Focus.	Brass | Aluminum Mounting.	
						Price.	Price.
4 1/4	3 1/4 x 4 1/4	4 x 5	7/8 in.	4 3/4 in.	5 1/4 in.	\$18.00	\$21.00
5	4 x 5	5 x 8	1 1/8 in.	5 3/4 in.	6 3/4 in.	22.00	25.00
8	5 x 8	6 1/2 x 8 1/2	1 3/8 in.	7 3/4 in.	8 7/8 in.	26.00	30.00
8 1/2	6 1/2 x 8 1/2	8 x 10	1 5/8 in.	10 3/8 in.	11 3/4 in.	35.00	39.00
10	8 x 10	10 x 12	1 7/8 in.	12 1/4 in.	13 7/8 in.	48.00	52.00
12	10 x 12	12 x 15	2 1/8 in.	15 in.	17 in.	60.00	66.00
15	12 x 15	16 x 18	2 3/8 in.	18 in.	20 1/4 in.	75.00	82.00
18	16 x 18	20 x 22	3 1/8 in.	22 1/4 in.	24 3/4 in.	95.00	108.00
22	20 x 22	21 x 25	4 1/8 in.	28 in.	31 1/8 in.	125.00	139.00

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.



Cut full size No. 5.

They may be used: In all work to which the Rapid Rectilinear type may be adapted, when they give an angle of about 55 degrees with stop *F*. 8, on size of plate as listed.

As wide angle objectives, giving an aperture of about 90 degrees with stop *F*. 45, on larger sizes of plates up to the stated limit of image circle. They are free from marginal distortion and magnified perspective, so common to lenses of this class.

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.

They possess less astigmatism than any known lenses of the symmetrical type. The back combination may be used on larger plates at one-half the speed.

They are Supplied only with Improved Iris Diaphragm.

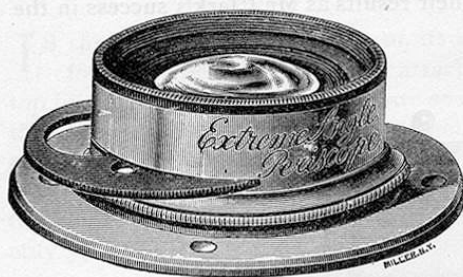
Waterhouse stops in place of Iris at the same prices.

No.	Size of Plate working with Stop <i>F</i> . 8.	Diameter of Image Circle.	Diameter of Lenses.	Back Focus.	Equivalent Focus.	Brass | Aluminum Mounting.	
						Price.	Price.
4 1/4	3 1/4 x 4 1/4	8 1/2 in.	3/4 in.	4 3/4 in.	5 1/8 in.	\$20.00	\$23.00
5	4 x 5	13 in.	7/8 in.	5 3/4 in.	6 1/8 in.	24.00	27.00
8	5 x 8	16 in.	1 1/8 in.	7 3/4 in.	8 1/4 in.	30.00	34.00
8 1/2	6 1/2 x 8 1/2	21 1/2 in.	1 1/2 in.	10 1/4 in.	11 1/8 in.	38.00	42.00
10	8 x 10	24 3/4 in.	1 3/4 in.	12 1/8 in.	13 3/8 in.	50.00	54.00
12	10 x 12	33 in.	2 1/8 in.	15 in.	16 in.	64.00	70.00
15	12 x 15	38 in.	2 3/8 in.	18 in.	19 1/4 in.	82.00	89.00
18	16 x 18	47 in.	3 in.	22 in.	23 7/8 in.	105.00	113.00
22	20 x 22	64 in.	4 1/8 in.	28 in.	30 in.	145.00	155.00

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.

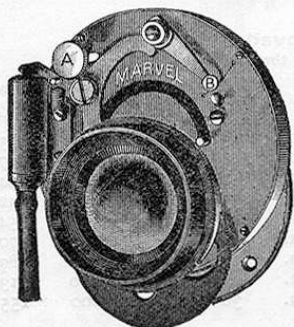


For instantaneous exposures on the plates quoted in the third column, it is advisable to use the pair of extension tubes furnished with each instrument; this extends the length of tube considerably, confines the angle of illumination to about 60 degrees, and renders the field very flat. To insert extensions, 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 "	2½ x 2½	5 x 7	f-10	\$24 00
2	3.6 "	3 x 3	6½ x 8½	f-10	27 00
3	4.2 "	3½ x 4½	8 x 10	f-10	32 00
4	5. "	4 x 5	10 x 12	f-14	40 00
5	5.9 "	4½ x 6½	11 x 14	f-14	51 00
6	7.1 "	5 x 8	14 x 17	f-14	66 00
7	8.4 "	6½ x 8½	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 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	1½	2½	2½ x 2½	3¼ x 4¼	\$10 00	----
2	2	4½	3¼ x 4¼	4¼ x 6½	10 00	----
3	2½	6	4 x 5	5 x 8	12 00	\$19 00
3A	1	7½	4¼ x 6½	6½ x 8½	13 50	20 50
4	1½	8½	5 x 8	8 x 10	15 00	22 00
5	1¾	10½	6½ x 8½	10 x 12	18 00	25 00
6	1¾	12	8 x 10	11 x 14	22 00	30 00
7	1¾	16	10 x 12	14 x 17	30 00	40 00
8	2	21	11 x 14	16 x 20	40 00	----
9	2½	25	14 x 17	20 x 24	60 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.	Pr. ce.
0	3¼ x 4¼	1⅜ in.	5 in.	8 in.	11 in.	\$14 00
1	4 x 5	1 ⅞	6¼	10	13½	20 00
1½	4¼ x 6½	1⅞	7	11	14¾	25 00
2	5 x 8	1¾	8½	13½	18	30 00
3	6½ x 8½	1¾	11	17	23	38 00
4	8 x 10	1¾	13	20½	28	50 00
5	10 x 12	2	16	25¼	34	64 00
6	11 x 14	2¼	18½	29¼	39½	76 00
7	14 x 17	2¾	22	34¾	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	¾ in.	3¾ in.	5½ in.	8 in.	\$18 00
1	5 x 7	1	5	8	11	28 00
2	6½ x 8½	1⅝	6¼	10	13½	36 00
3	8 x 10	1⅝	8½	13½	18	46 00
4	10 x 12	1⅝	11	17	23	60 00
5	11 x 14	2⅝	13	20½	28	74 00
6	14 x 17	2⅝	16	25¼	34	85 00

Dallmeyer's 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.

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 Waterhouse 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 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

* This lens is also well adapted for stereoscopic views.

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.

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 of Combination.	Back Focus.	Equivalent Focus.	Price.	Remarks.
1AA	4½ x 7¼	7/8	3½ in.	4 in.	\$37.00	No. 1A and No. 1 are made to screw into the same flange as the No. 1 Triple Achromatic.
1A	6½ x 8½	1¼	4½ "	5¼ "	45.00	
1	10 x 12	1½	6¼ "	7 "	61.50	
2	12 x 15	2	7½ "	8½ "	86.00	
3	16 x 18	2½	11 "	13 "	115.00	
4	20 x 22	3	14 "	15½ "	164.00	

Dallmeyer's New Rectilinear Landscape Lens.

THIS LENS works at an intensity, with the first stop, of 1/4, and is therefore somewhat slower in action than the rapid landscape, requiring an exposure of about 1/3 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 6½ in.	1½ in.	8½ in.	\$39.00
2	6½ x 8½ "	1¾ "	11½ "	49.50
3	8 x 10 "	2 "	13½ "	65.50
4	10 x 12 "	2½ "	16½ "	84.00
5	12 x 15 "	2¾ "	20 "	102.50
6	16 x 18 "	3 "	25 "	131.00
7	20 x 22 "	3½ "	32 "	172.00

Dallmeyer's Rapid Rectilinear Lenses.

(Patent.)

THE RAPID RECTILINEAR LENS is emphatically "The Lens" for all kinds of outdoor photography. It works at an intensity of $\frac{1}{5}$, 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 outdoor pictures, groups, instantaneous effects, landscapes, architectural subjects, or for dimly-lighted interiors. For copying and enlarging this lens is unrivalled. 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 10 x 12 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.	Back Focus.	Equivalent Focus.	Price Rigid Set.
3 1/4 x 4 1/4 in.	3 1/4 x 3 1/4 in.	1 1/8 in.	3 3/8 in.	4 in.	\$31.00
4 x 5 "	3 1/4 x 4 1/4 "	1 "	5 1/2 "	6 "	37.00
5 x 6 "	4 x 5 "	1 1/4 "	7 1/2 "	8 1/4 "	45.00
6 1/2 x 8 1/2 "	5 x 6 "	1 1/2 "	10 1/4 "	11 "	57.50
8 x 10 "	6 1/2 x 8 1/2 "	1 3/4 "	12 1/4 "	13 "	74.00
10 x 12 "	8 x 10 "	2 "	15 "	16 "	90.00
12 x 15 "	10 x 12 "	2 1/2 "	18 "	19 1/2 "	123.00
16 x 18 "	12 x 15 "	3 "	23 "	24 3/4 "	164.00
20 x 22 "	16 x 18 "	3 3/4 "	28 "	30 1/2 "	222.00
21 x 25 "	20 x 22 "	4 "	31 "	33 1/2 "	262.00

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

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 $\frac{1}{12}$ (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.	Equiv. Focus. Inches.	Price.
1	4 3/4 x 6 1/2	1.3	9	\$37.00
2	6 1/2 x 8 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

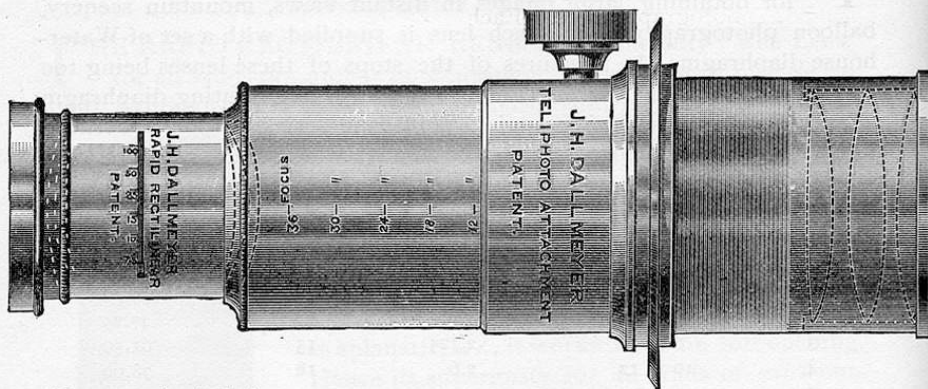
Dallmeyer's New Wide Angle Landscape Lens.

THIS is a single combination landscape lens, working at an intensity of $\frac{1}{16}$, 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.	Equivalent Focus.	Price.	Remarks.
1A	4 x 5	1 3/8	5 1/4	\$26.50	No. 1A and No. 1 are made to screw into the same flange as No. 1 Triple Achromatic Lens.
1	4 1/2 x 7 1/4	1 5/8	7	31.00	
2	6 1/2 x 8 1/2	1 7/8	8 1/2	37.00	
3	8 x 10	2 1/8	10	45.00	
4	10 x 12	2 1/2	12	57.50	
5	12 x 15	2 5/8	15	70.00	Nos. 2 and 3 screw into No. 2 Triple Achromatic flange.
6	16 x 18	3	18	86.00	
7	20 x 22	3 5/8	22	115.00	
8	21 x 25	4 1/4	25	155.00	

DALLMEYER'S Moderate Power Telephoto-Lens.



General Advice

It may be taken for granted that any Lens may be converted into a Telephoto-Lens by employing a negative Lens of $\frac{1}{2}$ of the focus of the positive Lens. If the Lens be a very quick one, such as a portrait Lens, the negative Lens suited to it may be $\frac{1}{3}$ (or less) the focus of such portrait Lens, but it is not recommended that the negative Lens should be less than $\frac{1}{2}$ of that of the positive Lens when its intensity is $F/\frac{8}{3}$ (the ordinary Rapid Rectilinear for example) or slower. It is preferable that quick Lenses or Lenses of high intensity should be converted into the new form of instrument. Advice as to the best method of conversion will be willingly given on application.

PRICES.

These are for the attachment only, and convert a Rapid Rect. Dallmeyer Lens into a moderate power Telephoto-Lens, the size of each Lens being given over the focus and diameter of the attachment suited to such Lenses.

SUITED TO RAPID RECT	4x5	5x6	5x8	6"x8"	8x10	10x12	11x13	12x15
FOCUS	3 in.	4 in.	5 in.	6 in.	7 in.	8 in.	10 in.	12 in.
DIAMETER	1 1/4 in.	1 1/2 in.	1 3/4 in.	2 in.	2 1/4 in.	2 3/8 in.	2 3/4 in.	3 in.
Price, with Rack and Pinion Movement in Brass	\$31 00	37 00	43 00	49 50	57 50	70 00	90 00	115 00
Price, with Rack and Pinion Movement in Aluminium	\$41 00	47 50	55 50	61 50	74 00	86 00	106 50	131 00

To have these attachments affixed to Lenses of other than Mr. Dallmeyer's, will necessitate sending the Lens to Mr. Dallmeyer. If of foreign make, the U. S. Government charge duty on its re-entry the same as if it had never been in this country.

Compound Tele-Photographic Lenses.

DESCRIPTION.—These lenses are mounted in aluminium and 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 about a half mile distant, taken with the new lens. Exact size of image on plate.

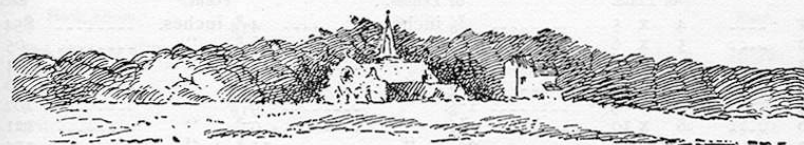


FIG. 2.

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.

Mounted in brass (to order only.)

- No. 1. Patent Stereographic Lens, with No. 1. Negative Attachment (mounted in aluminium), 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 (mounted in aluminium), Fitting Flange No. 5. 123 00 102 50
- No. 3. 2 B, Patent Portrait Lens, with No. 3 Negative Attachment (mounted in aluminium), Fitting Flange No. 7. 184 00 162 50

Catalogue for Amateurs.

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 $\frac{1}{8}$; 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	$\frac{7}{8}$ inches	$4\frac{9}{10}$ inches.	\$54 00
2	5 x 6	$1\frac{1}{4}$ "	$6\frac{9}{10}$ "	65 00
3	5 x 8	$1\frac{3}{8}$ "	$7\frac{1}{10}$ "	74 00
4	$6\frac{1}{2}$ x $8\frac{1}{2}$	$1\frac{1}{2}$ "	$8\frac{4}{10}$ "	86 00
5	7 x 9	$1\frac{5}{8}$ "	$9\frac{1}{10}$ "	102 50
6	8 x 10	$1\frac{3}{4}$ "	$9\frac{8}{10}$ "	121 00
7	10 x 12	2 "	$11\frac{2}{10}$ "	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

Catalogue for Amateurs.

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 $1\frac{3}{4}$ 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.

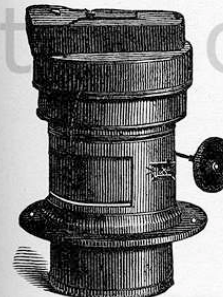
Price, each.....	\$34 00
Condensers, $3\frac{1}{2}$ in. diameter, mounted, pair.....	43 00

No. 2. Lantern Lens (patent) consists of two combinations, $1\frac{3}{4}$ 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.

E. A. Portrait Lenses. With Rack and Pinion.



THE attention of those who wish to procure a good portrait lens, but do not desire so expensive an instrument as that 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. By removing the back combination, and screwing the front combination in its place, an excellent landscape lens is secured.

Back Focus.	Inches.	Each.
1-4 central stop,	$4\frac{1}{2}$	\$8.75
1-3 " "	5	14.50
1-2 " "	6	17.50
4-4 " "	10	35.50

E. A. Instantaneous Stereo. Lenses.

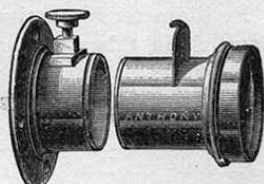
FOR instantaneous outdoor views, for indoor stereo. groups, C. de V., etc., etc. These are portrait combinations, and so constructed that the back lenses can be removed and the front ones screwed in their places, thus making a pair of single combination landscape lenses. They are in matched pairs, have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

Price, per pair,	\$18.00
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E. A. Rapid Lens (Hemispherical).



Lens ready for use.



Showing how the central stops or diaphragms are inserted.

HAS a double achromatic combination for making instantaneous views, portraits, groups, etc. The lens should be focused with the full opening.

Price, No. 1, for 4 x 5 pictures,	\$13.50
“ No. 2, for 5 x 8 “	20.00
“ No. 3, for 8 x 10 “	30.00

The No. 1 is supplied in rigid mounting.

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 market. Those who do not care to invest in *the best*—the Dallmeyer—will find this an excellent substitute.

No. 2, 4½ x 6½,	\$15.00	No. 4, 10 x 12,	\$25.00
No. 3, 6½ x 8½,	20.00	No. 5, 14 x 17,	35.00

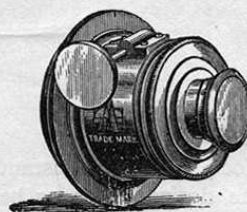
Anthony's Single Combination Lenses.



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. All have rotating diaphragms, so that the time of exposure may be varied to suit the subject.

No. 0, for 3½ x 4½ plates.....	\$3.50	No. 2, for 5 x 8 plates.....	\$4.50
“ 1, “ 4 x 5 “	3.75	“ 3, “ 6½ x 8½ “	7.00
No. 4, for 8 x 10 plates.....		\$7.00	

E. A. View Lenses.



THESSE 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.

1-9 size, stereoscopic, 6½ inch focus, per pair,	\$9.00
1-4 “ for 5 x 8 view, 10 “ each	6.00
1-3 “ “ 7 x 9 “ 12 “ “	7.25
1-2 “ “ 10 x 12 “ 15 “ “	9.00
4-4 “ “ 14 x 17 “ 20 “ “	18.00

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.

No.	Full Opening.	Small Stop.	Circle.	Diameter.	Equiv. Focus.	Price.
B.	5 x 7 "	6 x 8 "	10 1/2 "	1 1/4 "	8 1/2 "	\$22.00
C.	6 x 8 "	8 x 10 "	14 "	1 5/8 "	11 1/2 "	27.00
D.	7 x 9 "	10 x 12 "	15 "	1 3/4 "	12 1/2 "	31.00
E.	8 x 10 "	11 x 14 "	19 "	2 1/8 "	15 1/2 "	37.00
F.	10 x 12 "	14 x 17 "	24 "	2 5/8 "	19 1/2 "	54.00
G.	12 x 15 "	17 x 20 "	32 "	3 1/4 "	24 "	80.00

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.

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 1/4 x 8 1/2 inches	8 inches	\$22.00
BB.	6 1/2 x 8 1/2 "	8 x 10 "	13 1/4 "	30.00

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 unequalled 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.	Diam.	Equiv. Focus.	Price.
1	4 x 5	3 x 4 1/4	1 inch.	6 inches.	\$24.00
2	5 x 8	5 x 6 1/2	1 3/8 "	9 "	32.00
3	6 1/2 x 8 1/2	5 x 8	1 1/2 "	11 "	36.00
4	8 x 10	6 1/2 x 8 1/2	1 3/4 "	14 "	47.50
5	10 x 12	8 x 10	2 "	16 "	57.50
6	12 x 15	11 x 14	2 1/2 "	20 "	80.00
7	16 x 18	14 x 17	3 "	24 "	100.00

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.

Catalogue for Amateurs.

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 in.	3½ in.	4 in.	\$26.40
2	6½ x 8½	1¼ "	4½ "	5½ "	32.00
3	10 x 12	1½ "	6¼ "	7 "	45.60

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.

The Photoscript

IS an ingenious apparatus, by means of which the operator may title and number his negatives in plain type, with little or no trouble, directly on the film surface. The letters and numbers so produced, are clean cut and white, and may be put in any corner or margin desired.

Price.....\$3.75

Catalogue for Amateurs.

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.	Prices, with edges ground.
1	1 inch.	to 2 inch.	\$0.40 each.	\$0.60 each.
2	"	to 2 "	40 "	60 "
3	"	to 2 "	40 "	60 "
4	"	to 3 "	40 "	60 "
5	"	to 3 "	50 "	70 "
6	"	to 3½ "	50 "	70 "
7	1 "	to 4 "	50 "	70 "

Camera Levels.

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



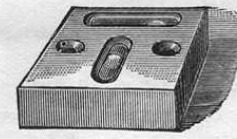
No. 1.



No. 3.



2.



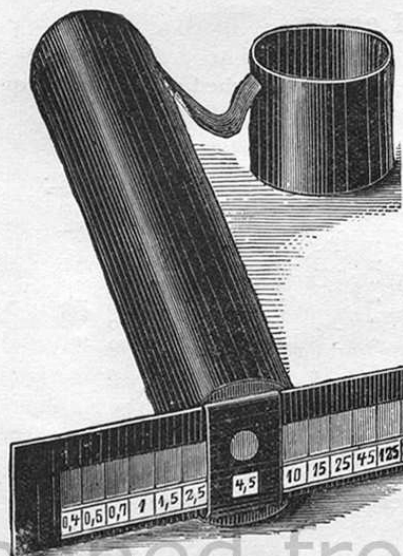
4.



No. 5.

No.	Description.	Price.
1	In Metal Mounting, round, with flange screw holes.....	\$0.75
2	In Metal Mounting, round, large size.....	1.00
3	In Metal Mounting, without flange.....	.75
4	Indicates two positions separately.....	1.50
5	Pocket Level.....	.75

Photometer for Timing Exposures.



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 focussing 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.

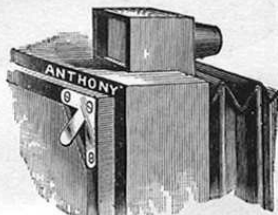
It will prove of great value to those who are constantly overtiming or undertiming their plates.

Price \$1.00

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

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



Patented in England and America.

(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, causes a fifth pointer to indicate the correct exposure in seconds or fractions of a second. It is beautifully finished in brass, and measures only $2\frac{1}{2}$ inches long and $1\frac{3}{8}$ 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."

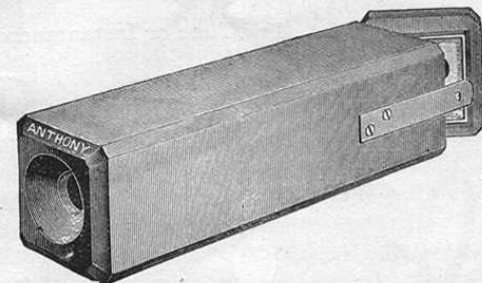
PRICE.

With Book of Comparative Tables.....	\$5.00
Extra Exposure Ribbons, each.....	25
Special Meters with "F. Ring," for Copying and Enlarging.....	6.50
Exposure Note-Book.....	50

The Ballard Actinometer.

FOR CORRECTLY TIMING EXPOSURES.

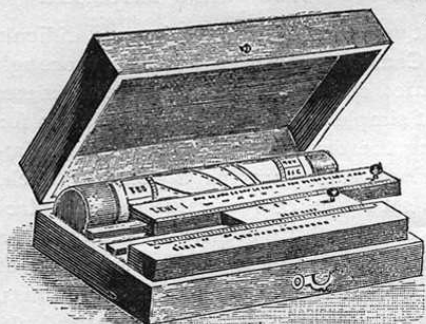
IS extremely simple and easy of manipulation, may be worked by the most unskillful and gives the exact time required for exposure of varying subjects, differing powers of light, stops of any size and any of the standard American makes of dry plates. It is constructed on such a principle that the actinic 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.



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.

Price.....\$3.50

The Actinograph

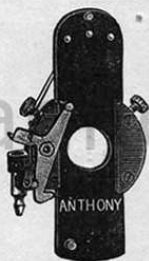


the time required may be read at a glance.

It 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 with the different conditions, as marked on the instrument, when

Price.....\$3.00

Anthony's Drop Shutter.

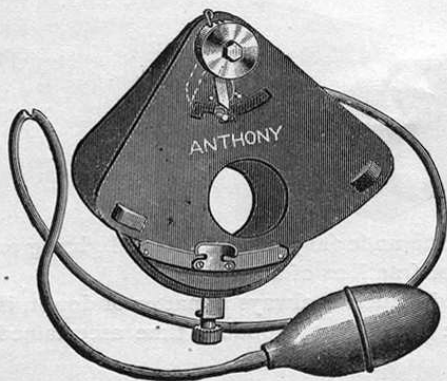


ONE of the neatest, simplest and most practicable drop shutters ever made. It is adapted to either time or instantaneous movement by simply turning a small metal button, and the working of the shutter for either is simply perfect. The tension being obtained by the use of a rubber band, it may be set at great speed, or may be worked by gravity alone, if desired. This shutter will fit a tube $1\frac{1}{2}$ inches in diameter, or less.

Price, complete with rubber tube and bulb....\$2.00

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.

The price of this shutter, with bulb and rubber tube, is \$4.50.

The following are the sizes of the apertures which we keep in stock :

No.	Front opening of shutter.	Opening of adjustable collar.	Price with bulb and tube.
No. 1.	1 inch,	1 to $1\frac{1}{2}$ inches	\$4 50
" 2.	$1\frac{1}{2}$ "	$1\frac{1}{2}$ to 2 "	4 50
" 3.	$1\frac{3}{4}$ "	$1\frac{3}{4}$ to $2\frac{1}{8}$ "	4 50

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 $\frac{1}{2}$, or $\frac{1}{6}$, or $\frac{1}{10}$ 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.

Catalogue for Amateurs.

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.

Price for Lens having Hood up to 2 inches	.....	\$7 25
" " " 2 1/4 "	.....	8 00
" " " 2 1/2 "	.....	8 25
" " " 2 3/4 "	.....	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 :

No.	1	2	3	4	5	6	7
	1/16"	3/32"	1/8"	5/32"	3/16"	7/32"	1/4"
Price per foot	.....30 cents.						

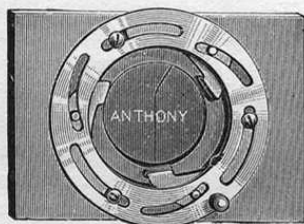
It may be used with other makes of shutters also.

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 ensured.

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 Adjustable Back

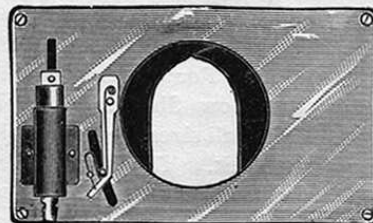
IS an automatic device for holding lens to the shutter. All Kazoo shutters No. 1, and Low Shutters Nos. 8 and 10, are provided with this back. When ordered separately, \$1.00.

Size of Shutter.	Will fit Lens.
1 1/2 inch opening.	1 1/2 to 1 7/8 inches.
1 3/4 " " "	1 3/4 " 2 1/8 " "
2 " " "	2 " 2 3/8 " "
2 1/2 " " "	2 1/4 " 2 5/8 " "
2 3/4 " " "	2 1/2 " 2 7/8 " "

Catalogue for Amateurs.

Low "Kazoo" Shutter, No. 1.

THE Low "Kazoo" Shutter No. 1 is a handsomely finished nickel plated shutter. Can be instantly changed from time to instantaneous exposure, by simply moving the small lever to one side.



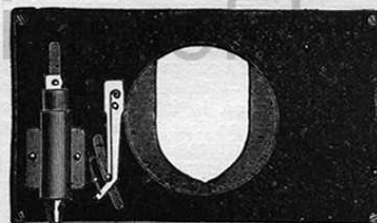
Gives the correct exposure, and requires no resetting after either time or instantaneous movement, as it sets itself after every exposure without opening the wings. This shutter is provided with an adjustable spring back that will fit any size of lens tube.

able spring back that will fit any size of lens tube.

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

Low "Kazoo" Shutter, No. 2.

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.

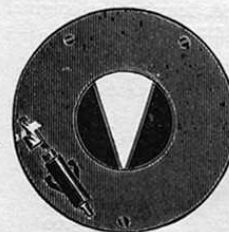


To change from time to instantaneous exposures, it is only necessary to push in or pull out a small brass pin, which passes through the front board and into the shutter. It will balance open for any length of time while focusing. The "Kazoo" gives the correct exposure, lighting the drapery or foreground most.

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

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

Low View Shutter, No. 10.

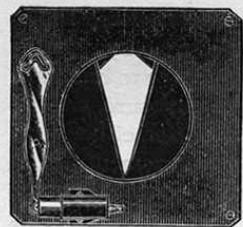


THE Low Shutter No. 10 is simply constructed and is a very practical shutter. It is nicely finished with Japan front, with brass trimmings, and cherry finished back. There are now many hundred of them in use which are giving universal satisfaction and splendid results. They can be readily changed from time to instantaneous exposures, by moving the brass lever to one side.

PRICE, \$6.00 EACH.

1 1/2 inch opening	.....	3 7/8 inch round.
1 3/4 " " "	.....	4 " " "
2 " " "	.....	4 1/2 " " "
2 1/4 " " "	.....	6 " " "

Low Shutter, No. 6.

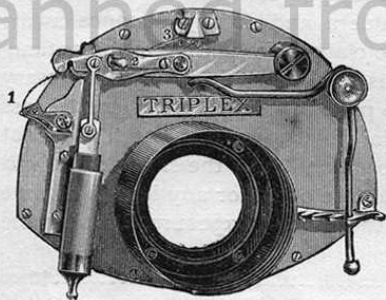


THE Low Shutter No. 6 is a very simple, well made, and nicely finished shutter, having the special advantage of a very large opening in a small shutter. Works lightly and easily, and gives the correct exposure. For cameras having small front-boards the Low Shutter No. 6 is especially adapted. The small sizes are admirably adapted for time view work. 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.

1 1/8 inch opening, 3 inches square...\$5.50 | 2 inch opening, 4 inches square...\$6.00
 1 1/4 " " 3 1/2 " " 5.50 | 2 1/2 " " 4 3/4 " " 6.00

The Improved Triplex Shutter.

THE Triplex Shutter, an improvement on the original and well-known Duplex, has been recognized during the past five years as the leading all around Shutter. The improved Triplex is in appearance similar to the regular Triplex, the features of the improvements being:



1. A NEW RELEASE, by which the spring in use is the only factor in the duration of exposure. This enables the operator to get a range of exposure from about 1/200th to 1/100th of a second. This maximum speed is from three to four times as great as that given by the great majority of shutters.

2. FOUR SPRINGS are furnished with each shutter, instead of two as formerly. The greatly increased range of speed alluded to above is made possible in this way.

3. A SPEED CARD, also containing directions for working, accompanies each shutter. This fills a long-felt want, and will greatly enhance the value of the shutter.

In the Triplex, the shutter opens with straight edges along a diameter of the lens, and the exposure being made by two flies, or wings, in one uninterrupted pass-by movement, perfect freedom from vibration is secured, and a high rate of speed is obtained, making the shutter an instrument of unrivaled quality.

The Triplex Improved Shutter is fitted between the combinations of the lens, at the diaphragm, and an entirely new lens tube is attached, leaving the original lens tube intact. A rotary stop is fitted, having five openings. If desired, the shutter can be fitted with Waterhouse stops.

SIZES AND PRICES.

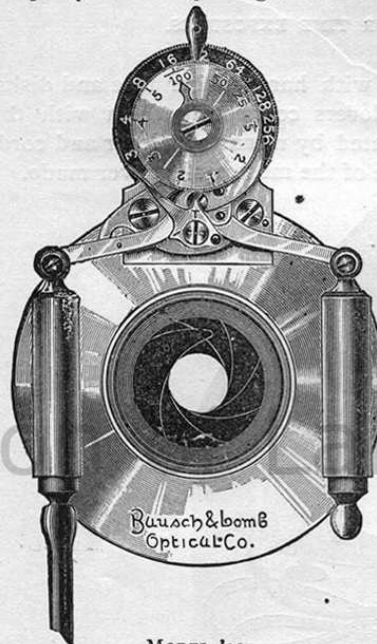
Size.	Aperture Inches.	Price.	Extra for Aluminium.
00	3/8	\$12.50	\$3.00
0	7/8	13.00	3.50
0A	1	13.50	4.00
1	1 1/8	14.00	4.50
1A	1 1/4	15.00	5.00
2	1 3/8	15.50	5.50
2A	1 1/2	16.00	6.00
3	1 3/4	17.00	6.00
3A	2	18.00	7.00

Prices of larger sizes on application.

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.



MODEL '90.

(Cut two-thirds of actual 5 x 8 size.)

The makers have taken advantage of all the improvements, and offer the 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 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 Barrel and Diaphragm.	When Fitted to Lenses of Other Manufacture leaving barrel intact.	Extra if in Aluminum Mounting.
3 1/2 x 4 1/2 --- \$12.50	\$14.00	1/2 in. opening of Diap., \$14.50	\$4.00
4 x 5 ---- 12.50	14.00	3/8 in. " " 14.50	4.00
5 x 8 ---- 13.50	15.00	1/2 in. " " 15.50	4.50
6 1/2 x 8 1/2 ---- 14.50	16.00	1 1/8 in. " " 16.50	5.00
8 x 10 ---- 16.00	17.50	1 1/2 in. " " 18.00	5.50

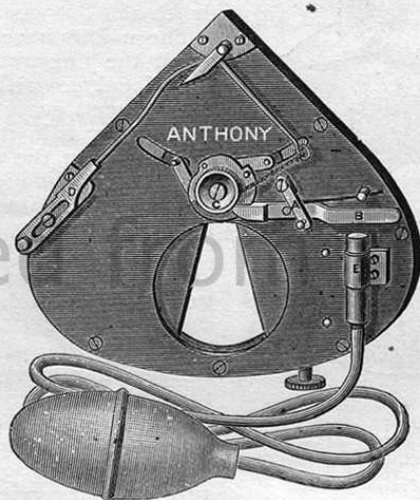
Catalogue for Amateurs.

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. This shutter, though expensive, is one of the most perfect ever made.



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 are kept in stock of two sizes, aperture of $1\frac{1}{4}$ and $1\frac{3}{4}$ inches.

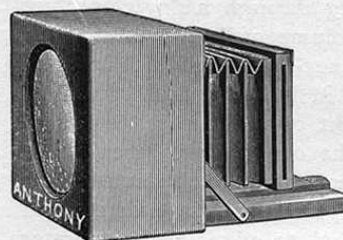
Collars may be fitted to any of the regular makes of lenses in market.

Price, each.....\$6.00

Catalogue for Amateurs.

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

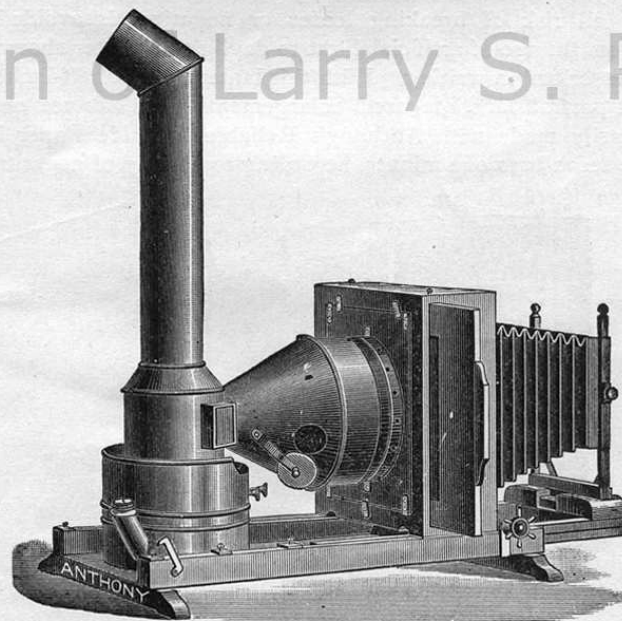
should possess.

Price.....\$10.00

Cooper's Universal Enlarging Lantern.

Patented Cooper & Lewis October 11, 1887, No. 371,252.

T. H. McAllister April 6, 1886, No. 339,451.



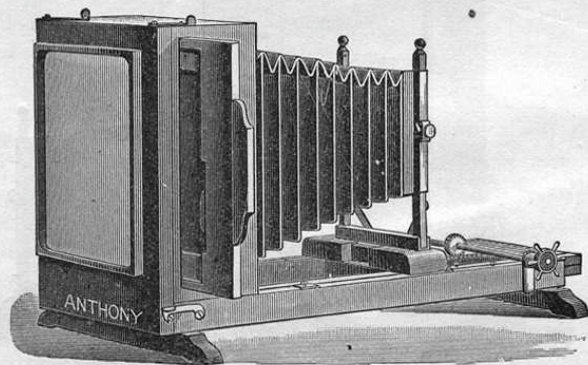
Above shows it as in use with artificial light.

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 two-fold; 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.



Cooper Lantern as transformed into a *Daylight Enlarging Camera*.

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.

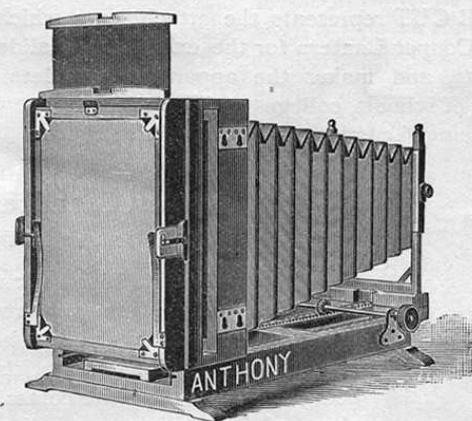
This lantern may be transformed into an 8 x 10 portrait or copying camera by the addition of an adapter, double dry plate holder, and ground glass, at an extra expense of \$10.

Price, without objective (fitted with two 5½-inch condensers),	.	\$40.00
“ “ “ 8 “ “	.	60.00
“ “ “ 9 “ “	.	80.00
“ “ “ 10 “ “	.	100.00

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 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



Cooper Lantern as transformed into *Copying or Portrait Camera*.

a copying or portrait camera. The camera being put together as in use for daylight enlarging, the ground glass and carrier are removed, and

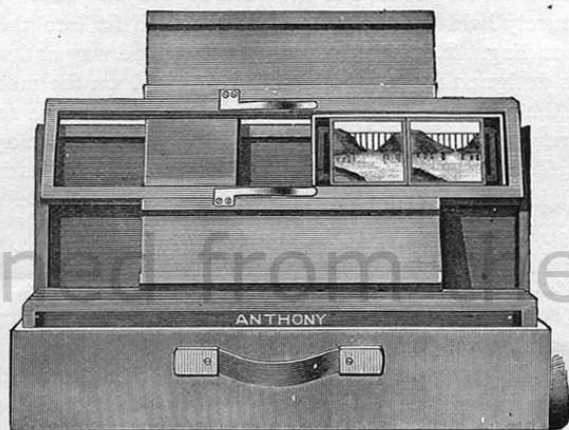
Catalogue for Amateurs.

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

Magic Lantern Attachment

For the Cooper Lantern.



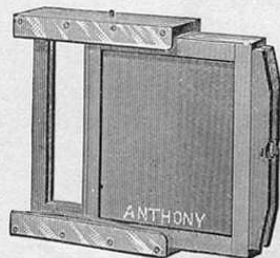
THE ABOVE CUT represents the attachments which may be used with the Cooper Lantern for the exhibition of slides of views or scientific subjects, and makes the apparatus complete and specially suited to the use of schools, colleges and societies.

Consists of frame, 6 carriers and box. Price, \$7.50.

Kodak Adapter.

For Use of Glass Plates in the Folding Kodak.

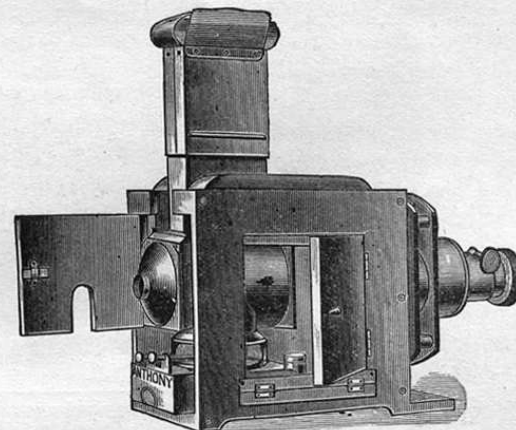
CONSISTS of a false back which is to be inserted in place of the roll holder, and into which the ordinary plate holder fits, the same as in a regular camera, the adjustment being such that the plate comes into the same plane of focus as is required with the roll holder.



Price, 4 x 5.....\$2.00 | Price, 5 x 7.....\$2.50

Catalogue for Amateurs.

Anthony's Triplexicon Magic Lantern.



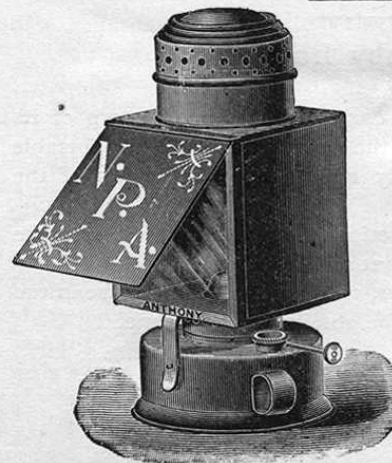
WE have seen many lanterns in our time, but in several respects this eclipses them all, and especially those for use with kerosene oil only. The lamp itself is completely shielded with a well made hood of Russia iron, and is provided with the patent triplex wick, which affords the utmost illumination obtainable with any oil light. The back and front of the hood are closed interiorally by glass plates, specially annealed to withstand extreme heat, and the rear one is again closed by perforated sheet iron, covered interiorally 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 closely.

Will also serve admirably for enlargements with the gelatino-bromide paper. It is destined to become very popular. Price, \$30.00.

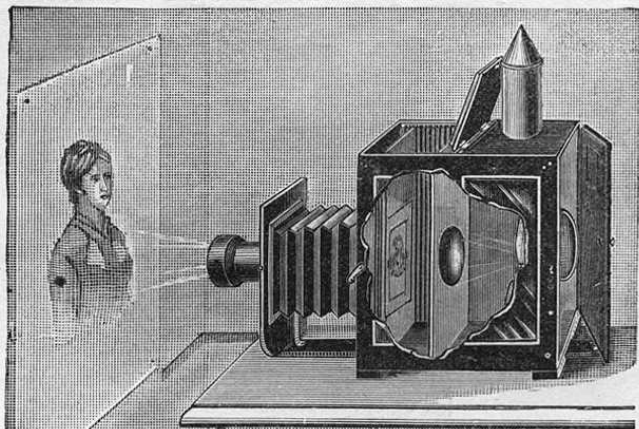
The "N. P. A." Lamp.

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



Anthony's Improved Enlarging Lantern.



THE great merit of this enlarging lantern is its simplicity of construction, economy, and practical usefulness.

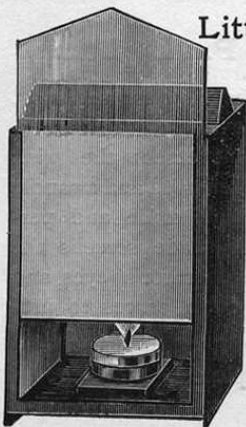
It is intended for making enlargements on gelatino-bromide rapid printing paper by artificial light, requiring only from *thirty to sixty seconds'* exposure for a life-size head.

Another purpose for which it admirably serves is that of a dark-room lantern. It is 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 condensing lenses. It is very compact, the size being 18 x 15 x 8 inches.

Improved Enlarging Lantern complete (except Portrait Lens), . . .	\$25.00
Including one quarter-size E. A. Portrait Lens,	33-75

Little Giant Ruby Lantern



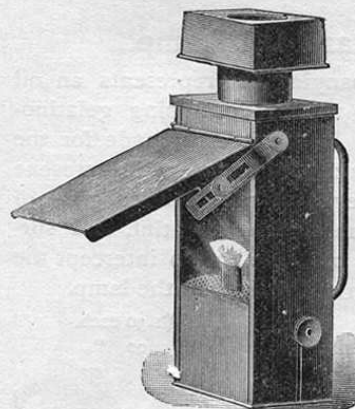
IS without exception the best lantern of its price in the market. It is light, portable and especially adapted to the wants of the amateur.

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.

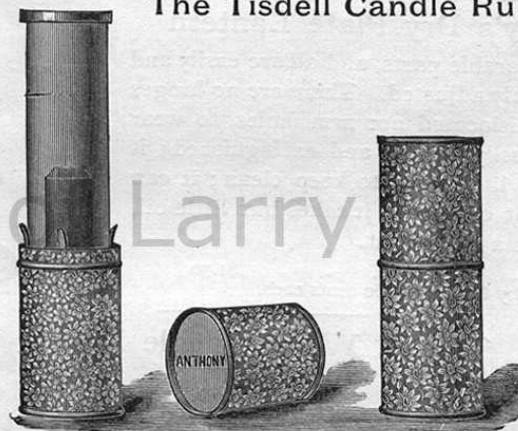
Price	\$0.60
Extra lights, each .....	.05

E. A. Pocket Ruby Lantern.



USED when putting dry plates into the holders, and also when developing them. Price, each, 60 cents.

The Tisdell Candle Ruby Light.

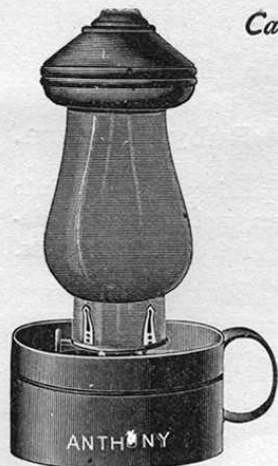


THE accompanying cut represents the Tisdell Candle Ruby Light for developing the most sensitive gelatine dry plates. One-half of a common sperm candle is the fuel required, consequently there is

- 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 has 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 6¾ x 2½ inches, and its weight only twelve ounces.

Price, complete,	\$1.00
Extra Ruby Chimneys, 30 cents each.	



Standard Oil Lamp.

THE accompanying cut represents an 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 each.
Extra Ruby Chimneys,90 "

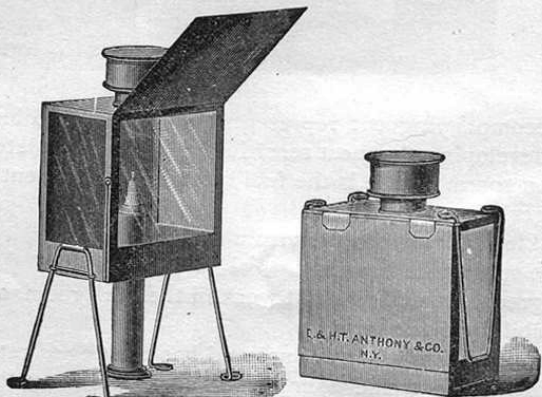
Anthony's Dry Plate Lantern

HAS separable parts, and all are easily and quickly adjusted. There are no hinges to become dislocated nor arm holes to wear out. It is easily lighted and extinguished; it requires but little care to keep clean; it can never get out of order; it takes but little oil, and it affords a good light.

Price, \$1.50
Extra Ruby Chimneys, 60 cents each.



The H. W. G. Candle Light.



Open for use.

Closed.

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.

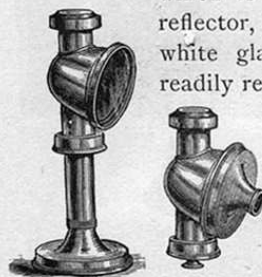
Price, \$2.00

The "Holiday" Dark Room Lamp.

Safe, Smokeless, Odorless, Portable.

Far Superior to any other Candle Lamp.

THE "Holiday" dark room 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.



Open for Use.



Packed for Traveling.

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.

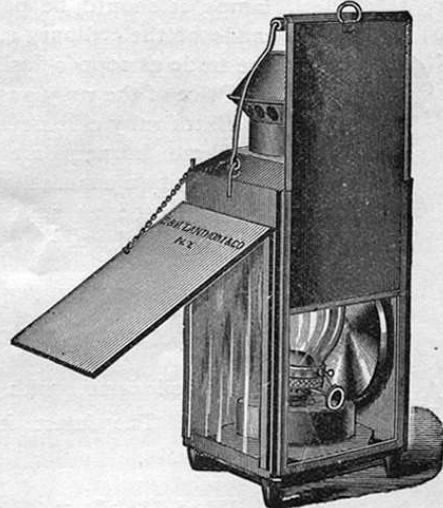
Price \$5.00

Candles, per box of six, 30c.

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



Anthony's Climax Dark Room Lantern.

(Patented.)

IT has three large illuminating surfaces and reflector. The glass is of the correct non-actinic hue. It is perfectly safe, and by all odds the most comfortable kerosene lantern to work by yet seen.

Price, \$2.00.



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 cents 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 cents.

Novel Dark Room Lamp.

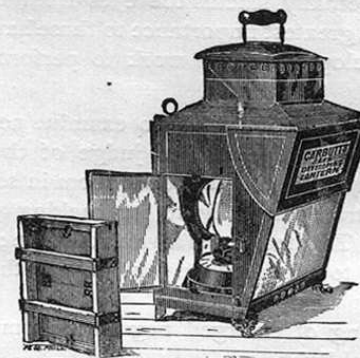
A COMPACT safe oil lamp, with hinged protecting shade. The latest improvement in ruby lamps.

Price \$1.00



Carbutt's Multum in Parvo Lantern.

Patented April 25, 1882.



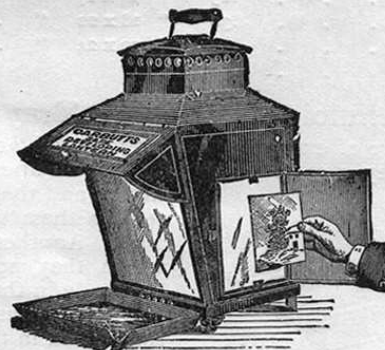
Lantern arranged for making positives by contact.

THE following are some of the advantages possessed by this Lantern: It saves your eyesight. It is simple and easy to manage is not 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 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 can be used for seven or more different operations in photography, several of which have never been combined in any one lantern, to wit:

First.—A safe light for the preparation of gelatino-bromide emulsion.

Second.—A safe light for the coating of gelatino-bromide plates.



Lantern arranged for developing, and after fixing, examining negatives by opal light.

Third.—A safe light for developing the most sensitive plates, while for preparing developer or doing other work the room can be instantly

Catalogue for Amateurs.

flooded with white light and as quickly changed to the 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, a matter of the greatest importance to those having a large number of negatives to develop, or other work to perform necessitating red light.

Fourth.—An opal light by which to examine negatives or positives after fixing, enabling the operator to judge of their quality, thereby avoiding the necessity of leaving the dark room in search of white light.

Fifth.—A clear transparent light for making positives on glass (gelatino-bromide). This feature is a valuable one; any photographer can materially add to his revenue by making these most beautiful products.

Sixth.—The making of enlarged negatives from gelatine positives, placed in front of opal light.

Seventh.—The making of photo-micrographs with the clear, transparent light, which can readily be accomplished with the gelatino-bromide plate and the microscope.

Eighth.—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, boxed ready for shipment.

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		

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

Catalogue for Amateurs.
Economy Rubber Tray.

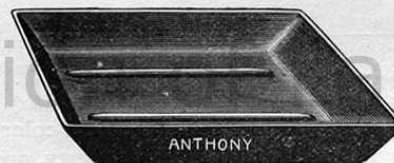


AS will be seen by the cut, the glass negative lies flat on the bottom of the tray, necessitating the least possible quantity of developer, and the depressed channel in bottom of tray is sufficiently deep to allow the finger or plate-lifter to engage firmly underneath the plate and remove it without risk of scratching. They are of polished hard rubber.

No. 3, 4½ x 5¾, each,	\$0.28	No. 5, 7 x 9, each,	\$0.72
" 4, 5½ x 8½, " . . . . .	.56	" 6, 8½ x 10½, "	1.08

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. 2, ½ and 4 x 5 plate, each,	\$0.28
" 4, 5 x 7 and 5 x 8 plate, each, . . . . .	.56
" 5, 6½ x 8½ plate, each, . . . . .	.72
" 6, 8 x 10 " " " "	1.08

Papier Maché Trays.

ARECENT importation of our own, of superior quality, and at reduced prices. These goods are very durable, light in weight and deep. They are black in color, and in general appearance not unlike the hard rubber tray.



No.	Each.	No.	Each.
1. 3½ x 4½,	\$0.25	8. 14½ x 18½,	2.75
2. 4½ x 5½, . . . . .	.35	9. 16 x 20,	3.25
3. 5½ x 8½, . . . . .	.55	10. 19 x 24,	5.50
4. 7 x 9, . . . . .	.70	11. 23 x 27,	6.50
5. 8½ x 10½,	1.00	12. 26 x 30,	7.50
6. 10½ x 12½,	1.50	13. 28 x 34,	8.50
7. 12 x 14½,	2.00		

Glass Trays.



THESE TRAYS are non-actinic, clean and convenient.

White, $5\frac{1}{2} \times 7\frac{1}{2}$, \$0.25
 White or Amber, $5\frac{1}{2} \times 8\frac{1}{2}$, \$0.35 | White or Amber, $8\frac{1}{2} \times 10\frac{1}{2}$, \$0.75

Porcelain Developing Trays.

THE dimensions given are for inside the bottom of the tray.

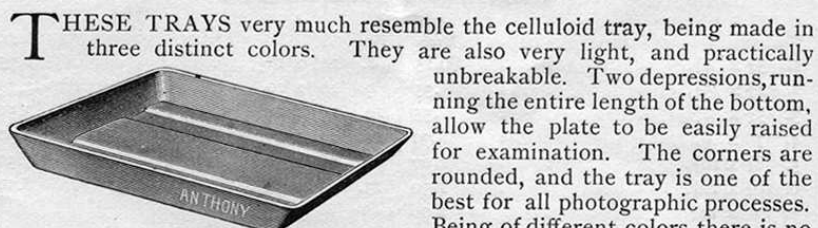
	Shallow.	Deep.		Shallow.	Deep.
5 x 7,	\$0.44	\$0.62	8 x 10,	\$0.82	\$1.00
$5\frac{1}{2} \times 8\frac{1}{2}$,	.60	.75	10 x 12,	1.32	1.66
7 x 9,	.66	.82			

Non-Actinic Porcelain Trays.

THESE TRAYS, being made of porcelain, of a dark brown color, are very durable, and owing to their non-actinic property, are considered by many to be far superior to the ordinary white porcelain ware for developing purposes.

Sizes.	Deep.	Shallow.
6 x 8 for 5 x 7 plates, each,		\$0.28
$5\frac{1}{2} \times 8\frac{1}{2}$ " 5 x 8 " "		.42
$7\frac{1}{2} \times 9\frac{1}{2}$ " $6\frac{1}{2} \times 8\frac{1}{2}$ " "		.46
10 x 12 " 8 x 10 or 10 x 12 plates, "		.84
11 x $14\frac{1}{2}$ " 11 x 14 plates, "		1.40
14 x $17\frac{1}{2}$ " 14 x 17 " "	\$4.20	3.22
15 x 19 " 14 x 17 or 14 x 18 plates, "	4.90	3.85

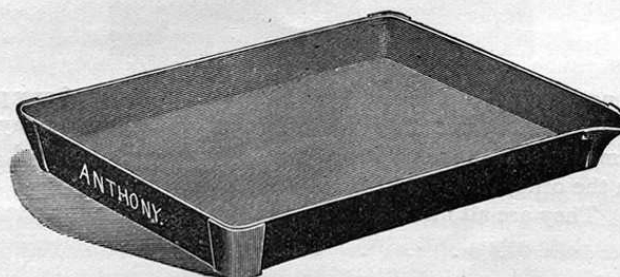
The Amateur Tray.



THESE TRAYS very much resemble the celluloid tray, being made in three distinct colors. They are also very light, and practically unbreakable. Two depressions, running the entire length of the bottom, allow the plate to be easily raised for examination. The corners are rounded, and the tray is one of the best for all photographic processes. Being of different colors, there is no danger of getting the trays mixed; the colors being readily distinguishable even in the dark room.

For Plates, Price.
 4 x 5 \$0.42

Hard Rubber Trays.



Original and Genuine Hard Rubber.

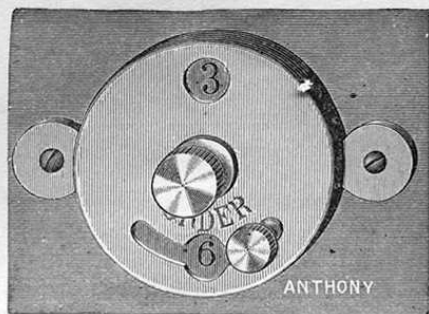
THESE goods, so long and favorably known to the profession, and which have met with universal approval, are now offered at the following reduced prices:

$4\frac{1}{2} \times 5\frac{1}{2}$, each,	\$0.50	
5 x 7 " . . . . .	.60	
$5\frac{1}{2} \times 8\frac{1}{2}$, " . . . . .	.72	Extra Deep.
7 x 9, " . . . . .	.85	
$8\frac{1}{2} \times 10\frac{1}{2}$, "	1.15	10 x 12, each, \$3.25
$10\frac{1}{2} \times 12\frac{1}{2}$, "	1.80	12 x 16, " 4.50
12 x 16, "	2.50	15 x 18, " 5.75
15 x 18, "	4.10	18 x 22, " 7.50
18 x 22, "	5.35	19 x 24, " 8.25
21 x 26, "	7.50	21 x 26, " 10.00

Glass Patterns.

Carte de Visite—Oval, Arch or R. C.,	each, \$0.25
Stereo. Cards—Square or Arch,	" .30
Cabinets,	" .40
4 x 5,	" .40
5 x 8,	" .75
$6\frac{1}{2} \times 8\frac{1}{2}$,	1.00
7 x 9,	1.15
8 x 10,	1.25

Allderige's Compound Printing Register.

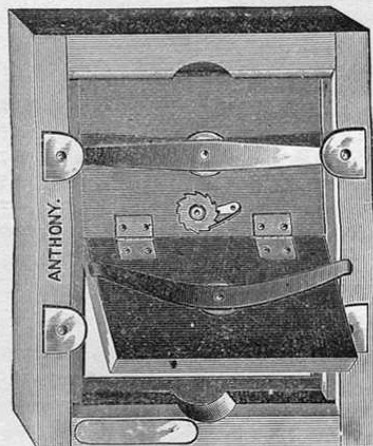


THIS neat article can be readily attached to the door of any printing frame, and has two dials, one of which shows how many prints are to be made from the negative, and as each one is removed, it is recorded on the other dial. By this means the count can always be kept correctly. They are all nickel plated, and the cut shows the exact size.

Price, per dozen, 50c.

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 woodwork, 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

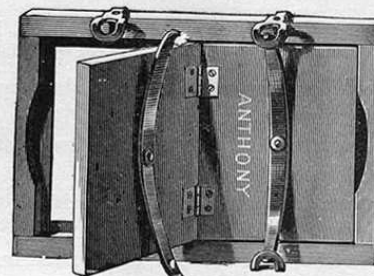
celluloid takes the pencil easily and marks are readily washed off.

PRICES.

Size.	Flat.	Size.	Flat.
3 1/4 x 4 1/4	\$.36	5 x 7	\$.50
4 x 5	.38	5 x 8	.52
4 1/4 x 5 1/2	.40	6 1/2 x 8 1/2	.60
4 1/4 x 6 1/2	.42	8 x 10	.75

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.

For Plates.	For Plates.
3 1/4 x 4 1/4 each, 45c.	5 x 7, each, 60c.
4 x 5, " 45c.	5 x 8, " 65c.
4 1/4 x 5 1/2, " 45c.	6 1/2 x 8 1/2, " 75c.
4 1/4 x 6 1/2, " 55c.	8 x 10, " 75c.

No larger sizes made of this style.

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 "

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 eight ounce bottles, price, 30 cts.
Sixteen ounce bottles, 55 "

Full directions with each bottle.

No preparation or dilution is required. It is sold ready for use.

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 commend itself on the very first trial; and that it will figure as a valuable item in the travelers' 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 cts.

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.

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.

Stanley's Concentrated Developer.



IN PACKAGE containing 16 ounces Concentrated Developer, in 8-ounce bottles, one having the pyrogallic 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 cts.

Anthony's Climax Developer.

For Dry Plates and Films.

THIS Developer possess 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 Bro. Potass. 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 " " " 55 "

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.

Acid Sulphite of Soda.

IS especially adapted to use in the fixing bath, rendering it acid and very considerably reducing the time required for fixing; it also gives exceptionally clear and stainless negatives.

Acid Sulphite may also be used as a preservative of pyro, hydroquinone or eikonogen in developers, but not in those developers which contain all the ingredients in one bottle. Where used in this way it entirely replaces the use of ordinary sulphite of soda in the two solution developer.

Price, per pint Bottle.....40 cents.

Anthony's Improved Concentrated Hydroquinone 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.

Rodinal, or Para-Amidophenol Developer,

IN CONCENTRATED SOLUTION.



THIS article, which has lately been introduced by the Anilin Fabrik in Berlin, is an extremely concentrated solution of Para-Amidophenol, the application of which as a photographic developer has been patented by Dr. Andresen.

The manufacturers have decided to place Para-Amidophenol on the market in this solution only, merely requiring the addition of water to render it ready for use. This will guarantee to the consumer a perfectly uniform article at all times. The Rodinal is a developer of the first class, working with extreme rapidity, clearness and power, yielding negatives that are strong, with great contrast, or soft with full details, according to the strength used. One ounce of Rodinal in thirty ounces water gives developer for normal exposures.

Price, per bottle of 3 ounces.....\$0.60
" " 8 " 1.10
" " 16 " 2.00

Aristotone

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 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 print 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 eight ounces, which can be used over and over until action ceases, when it is thrown away as useless.

Price, per bottle.....40 cents.

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 need 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.

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 Compound Toning Tablets.

FOR convenience in toning silver prints these tablets will be found unequalled. One tablet dissolved in 7 oz. water and combined with ½ oz. 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, 25c. per bottle.



Tonifixer 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 ten cartridges, or may be had singly and in either of two sizes, as follows: No. 1 cartridge makes 3½ ounces in solution; No. 2 cartridge makes 8 ounces.

PRICES:

No. 1.	Per box of 10.....	\$1.80
" 1.	Each.....	.25
" 2.	Per box of 10.....	4.00
" 2.	Each.....	.50

Anthony's Compound Toning Powders.

SAVE TIME and hence money. The solution is made ready in a few moments, and can be used by anyone. 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 7½ 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.

"Albutone."



For Toning and Fixing in one Bath, Prints on Albumen Paper.

THIS solution is prepared ready 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 bottle 40 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.

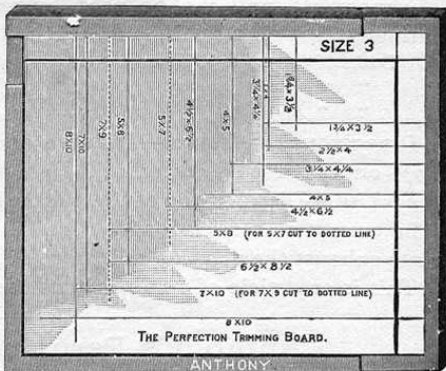
Price per box..... 80 cents.

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.

Catalogue for Amateurs.

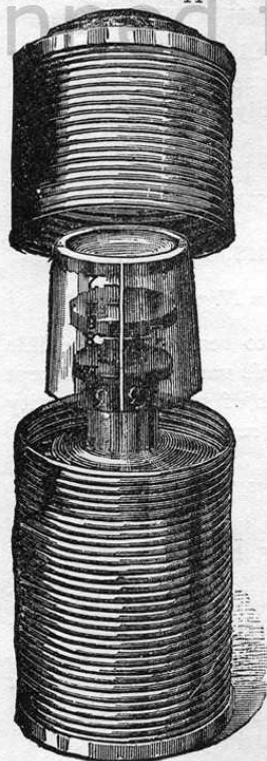
As may be seen from cut, the trimming board consists of a solid wooden tablet with raised edges, containing a card on which is printed diagrams of all the different sizes of cards in ordinary use. This diagram is covered with a stationary thick glass, on which is a movable glass pattern. The print to 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
- “ 2. “ seven “ “ “ 5 x 8 “ “ 1.25
- “ 3. “ eleven “ “ “ 8 x 10 “ “ 1.50

Patent Metallic Protecting Cases.

With Ground Stopple Bottle and Graduated Tumbler for Chemical Solutions.



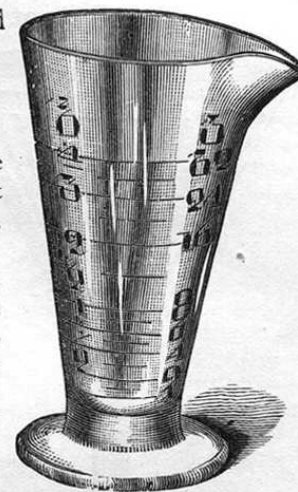
THESE contrivances are a great convenience to either amateur or professional photographers who wish to carry solutions of developers, etc., in their travels without possibility of breakage or leakage. The cases are drawn from solid metal and made of even thickness throughout, being corrugated for the 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, 1 5/8 in.; length, 3 1/2 in.; weight, 4 1/2 oz., furnished with 1 oz. bottle, each, . . . \$0.50
- No. 3A. Diameter, 2 in.; length, 5 1/2 in.; weight, 7 1/2 oz., furnished with 4 oz. bottle, with tumbler, making 1/2 pint flask, each, 85
- No. 4A. Diameter, 2 1/2 in.; length, 7 in.; weight, 14 oz., furnished with 8 oz. bottle, with tumbler, making 1/2 pint flask, each, 1.10
- No. 13A. Diameter, 2 3/4 in.; length, 6 in.; weight, 17 oz., furnished with 8 oz. bottle, with tumbler, making 1/2 pint flask, each, 1.20

Catalogue for Amateurs.

Anthony's Superior Molded Graduates.

Warranted Accurate.

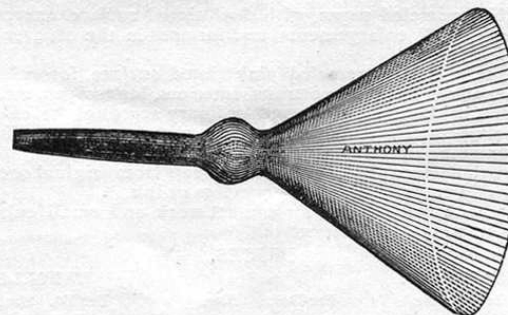


COMPLAINT is frequently made of the ordinary glass graduate that it is not accurate, and sometimes one marked 16 oz. will show a variation of 1 oz. either way.

The Anthony Molded Graduate, however, can be depended on every time to be thoroughly accurate in its markings and to hold full measure as indicated by scale marked on each. They are all manufactured at the same place and by skillful workmen, and are guaranteed.

Minim, each,	\$0.20
2 dram, “ . . . . .	.25
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

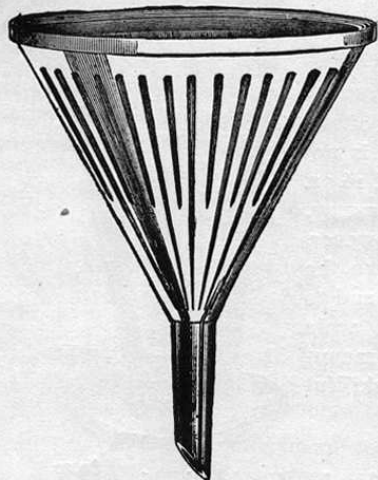
Anthony's Combined Bulb Funnel and Filter.



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.

- Pints, each, . . . 34c. | Quarts, . . . 40c. | Half gallon, . . . 85

The Patent Fluted Funnel and Filter.



THESE are the latest and best glass funnels 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 that 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.

1/2 pint,	Each, \$0.12
1/4 "	" .15
1 "	" .20
1 quart,	" .30
2 "	" .45

Glass Funnels.

1/2 pint, \$0.12	2 quarts, \$0.25
1 "15	1 gallon,50
1 quart,20	2 gallons,80

Buffalo Argentic Paper

IS a bromide paper of the finest quality. It is made in four grades, C., E., H. and L.

- "C"—Thin, flexible enameled paper, with flesh tinted surface, expressly for contact printing and small enlargements, and for use in the Hoover Patent Contact Printing Machine.
- "E"—Heavy paper, with an enameled pink tinted surface, for enlargements (from original negatives only) of portraits, interiors, landscapes, etc., and making a finished print without labor beyond ordinary spotting, the enlargement, when finished, being equal to a contact from the same negative. This paper has no equal for finishing in transparent oil or water colors.
- "H"—Heavy, rough surface paper, for enlargements from original or copied negatives, for finishing in crayon, pastel, water colors or ink.
- "L"—Thin paper, with mat surface, for contact work and small enlargements to be finished in crayon, water colors, etc.

PRICES.

CUT SHEETS.				IN ROLLS.			
Size.	Per Doz.	Size.	Per Doz.	Size.	Per Yd.	Size.	Per Yd.
3 1/4 x 4 1/4	\$0 25	11 x 14	\$3 00	4 ins. wide	\$0 22	15 ins. wide	\$0 90
4 x 5	40	12 x 15	3 35	5 "	28 18	" "	1 00
4 1/4 x 5	50	14 x 17	4 50	6 "	33 20	" "	1 12
4 1/4 x 6 1/2	55	16 x 20	6 00	7 "	39 22	" "	1 24
4 3/4 x 6 1/2	60	17 x 20	6 40	8 "	44 24	" "	1 35
5 x 7	65	18 x 22	7 50	10 "	56 25	" "	1 40
5 x 7 1/2	70	20 x 24	9 00	11 "	62 30	" "	1 08
5 x 8	75	22 x 27	11 25	12 "	68 31	" "	1 75
6 1/2 x 8 1/2	1 10	24 x 30	13 50	14 "	79		
8 x 10	1 50	25 x 30	14 00				
10 x 12	2 25	24 x 36	16 00				
10 x 14	2 65	30 x 40	22 50				

Other sizes in proportion.

Not less than ten yards each roll.

Anthony's Extra Glossy Ready Sensitized Albumen Paper.

THIS PAPER was expressly manufactured for and introduced by us to give to those who have not the skill, time, inclination or appliances to sensitize photographic paper preparatory to printing, an article of the finest quality and of uniform sensitiveness.

3 1/4 x 4 1/4 inches, in light tight boxes of 2 dozen, per box,	\$0.25
4 x 5, " " " 2 " " . . . . .	.40
4 1/4 x 6 1/2, " " " 2 " " . . . . .	.50
5 x 7, " " " 2 " " . . . . .	.70
5 x 8, " " " 2 " " . . . . .	.75
6 1/2 x 8 1/2, " " " 2 " "	1.00
8 x 10, " " " 2 " "	1.50
18 x 22, " " " 2 " "	3.00

per sheet, 30 cents; per doz., 3.00
To save loss, boxes are not broken.

Anthony's Patent Improved Reliable Bromide Paper

For Contact Printing and Enlargements.

Requires neither Toning nor Sunlight.

THIS PAPER being prepared with the same substance as used on the gelatine dry plates, requires no other chemicals for its development than the ferrous oxalate developer employed in the development of the negative, which is a great convenience in traveling. It must consequently always be used in a room free from actinic light. It yields the strongest blacks, with a fullness of detail that is quite surprising.

It can be had either in Light Smooth (L. S.), Heavy Smooth (H. S.), or Heavy Grained (H. G.), as may be desired.

Use it once and you will have no other.

CUT SHEETS.

Size.	Per Doz.	Size.	Per Doz.
3 1/4 x 4 1/4	\$0 25	12 x 15	\$3 35
4 x 5	40	14 x 17	4 50
4 1/4 x 5 1/2	50	16 x 20	6 00
4 1/4 x 6 1/2	55	17 x 20	6 40
4 3/4 x 6 1/2	60	17 x 21	6 74
5 x 7	65	18 x 22	7 50
5 x 7 1/2	70	20 x 24	9 00
5 x 8	75	22 x 27	11 25
6 1/2 x 8 1/2	1 00	24 x 30	13 50
8 x 10	1 50	25 x 30	14 00
10 x 12	2 25	24 x 36	16 00
10 x 14	2 65	30 x 40	22 50
11 x 14	3 00	40 x 60	45 00

Developing Outfits for Making Negatives.

THESE OUTFITS contain everything necessary for developing one dozen negatives, including trays, graduates, funnels, etc., that will last for years, and sufficient chemicals for making several dozen additional negatives.

4 x 5 Developing Outfit.—Tisdell Lamp; 1 dozen dry plates; 2 developing trays; Stanley's Concentrated Developer; hyposulphite of soda; bromide potass.; alum; 1 funnel; 3 glass graduates; focusing cloth; scales and weights; developing fork; bottle of negative varnish. Price, \$5.25.

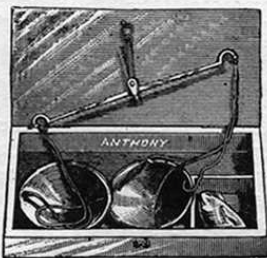
4½ x 6½	Developing Outfit, as above,	. . . . .	\$6.25
5 x 8	" " " "	. . . . .	6.50
6½ x 8½	" " " "	. . . . .	7.00
8 x 10	" " " "	. . . . .	8.00

Printing Outfits.

THESE OUTFITS include everything necessary for making and mounting two dozen prints from the negatives, and chemicals sufficient for several dozen more.

4 x 5 Printing Outfit.—4 dozen 4 x 5 sensitized albumen paper; blue litmus paper; chloride gold (A); bicarbonate of soda (B); chloride of sodium (D); 1 pound hyposulphite soda; 1 printing frame, 4 x 5; 1 4 x 5 papier maché developing tray; one 2 oz. graduate; 1 5 x 7 porcelain tray (deep); 1 jar of paste; 1 hard rubber set and bound paste brush; 1 glass pattern, 4 x 5; 1 straight trimmer; 24 sheets 6½ x 8½ card-board. Price, \$4.75.

4½ x 6½	Printing Outfit, as above,	. . . . .	\$5.75
5 x 8	" " " "	. . . . .	6.00
6½ x 8½	" " " "	. . . . .	6.75
8 x 10	" " " "	. . . . .	7.75



Dispensing Scales and Weights.

THESE are made for weighing small quantities only—grains, scruples and drams. With French weights they are equally useful for weighing grams, etc. Price, in wooden box, with a set of apothecaries' weights, 75 cts.

Dispensing Scales, 8 inch Beam.

THESE scales are similar to the preceding but of larger size, adapted to weighing grains, scruples, drams and ounces. Price, with weights, \$1.50.

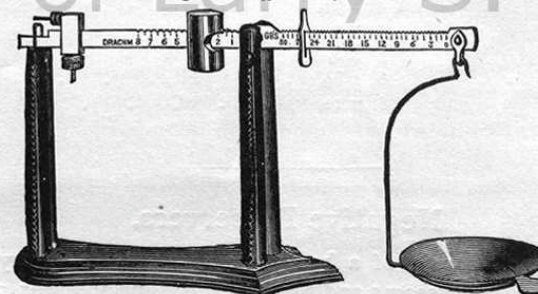
Patent Pocket Pyro Scales.



THESE scales are made with a view to being carried in the pocket and occupy, when closed, a space only 2¼ x 1½ inches. They have no weights to lose, are neat, handy and extremely useful, their capacity is from ½ to 20 grains. Price, complete, \$1.00.

New Patent Dispensing Scale.

No Weights. Quickly Adjusted.



THIS, we believe, will fill a long felt want. It has a 9-inch nickel-plated beam, neatly mounted on a japanned iron standard. The front end of the beam weighs from one to thirty grains, the other end weighing from one-half to eight drams, or one ounce, and is very accurate. The pan is movable and has no side bar to interfere. We guarantee them in every respect. Price, \$5.00

Dr. Andresen's New Fixing Salt.

BY using a solution of this salt for fixing, a perfectly clear bath is always at hand, and negatives free from stain obtained. Well suited for travelers.

PRICES.

One pound can...40 cts. | Half pound can...26 cts. | Quarter pound can...16 cts.

Dry Plate Safety Box.

IN outward appearance resembling 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. Thus plates of any size up to 8 x 10 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.

PRICES.

4 x 5,	\$1	5 x 8,	\$1.25
6½ x 8½ or 8 x 10,			\$1.50



Negative Boxes.

FOR storing negatives. They are smoothly made, with grooves each side, and have nicely rounded corners.

Prices, holding 24 plates, each :

3½ x 4½,	\$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

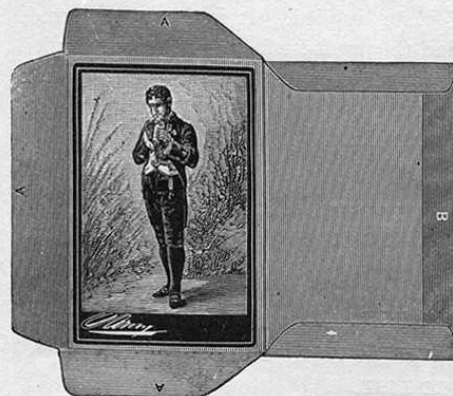
Negative Preservers.

THESE goods consist of a heavy manilla envelope, very carefully made, with flat seams and having blanks printed for registering number, subject and description of negative enclosed. They are unexcelled for convenience and safety in packing negatives away and finding them when wanted. In packages of 25, packed 500 in a box. Prices as follows :

No. 1,	For negatives, 3½ x 4½, per 1,000	\$2.35
" 2,	" " 4½ x 5½, "	2.50
" 3,	" " 4½ x 6½, "	2.75
" 3½,	" " 5 x 7, "	3.00
" 4,	" " 5 x 8, "	3.25
" 5,	" " 6½ x 8½, "	4.20
" 6,	" " 8 x 10, "	5.00
" 7,	" " 10 x 12, per 100.	1.40
" 8,	" " 11 x 14, "	1.60
" 9,	" " 14 x 17, "	2.75

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.

\$10.00 per 1,000, or \$1.20 per 100.

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.



The trouble in varnishing gelatine negatives arises from the fact that the gelatine film is very apt to absorb or retain moisture. It should therefore be well heated to drive off all moisture before the varnish is applied.

It should then be allowed to cool off to the temperature proper for varnishing. As the film is liable to retain within it the solvent of the varnish, it should be allowed to cool after the varnishing, and then, before being used in printing, it should be well heated again to drive off any of the alcohol that may be retained in the film. All our negative varnishes, viz: the flint, the

special, the retouching, and Mountfort's, can be used perfectly well with the precautions above noted, and it is better, even with the new dry plate varnish, to proceed in the same manner.

Price, per 6 ounce bottle,	\$0.40
" " Pint "	1.00
" " Quart "	1.90

"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

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,

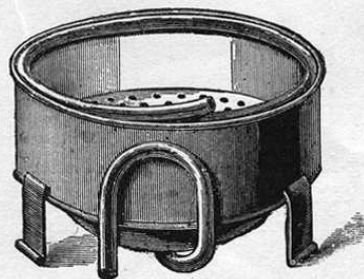
Anthony's C. P. Kalkar.

FOR use in the toning bath. "Aristo" gold, kalkar and water make the ideal toning bath. For one hundred-ounce bath, take one ounce kalkar, eight ounces water and fifty minims of No. 3 "Aristo" gold. Allow to stand for an hour, decant off clear liquid, add ninety-two ounces of water and two ounces of alcohol.

Put up in pound packages only..... 15 cents.

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.



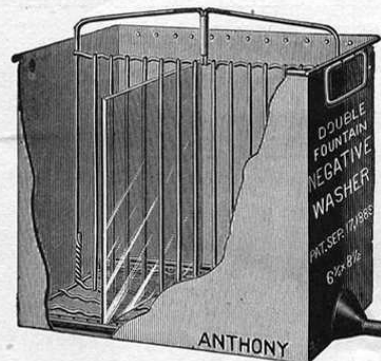
By attaching a hose from the hydrant to the pipe on upper edge of the washer, the water flows freely, giving a circular motion to it in the washer, keeping the prints in lively circulation. When the water has become deep enough to start the siphon, it will gradually empty the bowl and carry off the water almost entirely. The siphon will then cease operating, and the washer becomes re-

filled. This operation will continue as long as may be desired and is automatic. They are made in three sizes, as follows:

24 inches diameter.....Price, each, \$11.00

They are cheaper than trays or sinks for washing prints, and much more effectual in removing every trace of hypo.

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

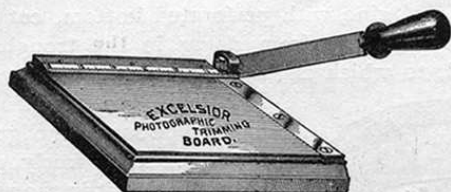
in a constant upward current to the overflow pipe, thus insuring a perfect elimination of free chemical agents from the negatives.

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.

The Excelsior Photographic Trimming Board.

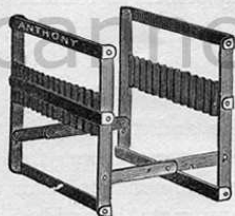


THIS cutter is designed to supply a long-felt want for a cheap, serviceable article. The knives are made of the best grade of steel and are guaranteed for wear. Trims prints perfectly square, and the edges clean and smooth.

PRICES.

Trims sizes up to 8½ inches.....	\$3 50
" " 10 " 	4 00

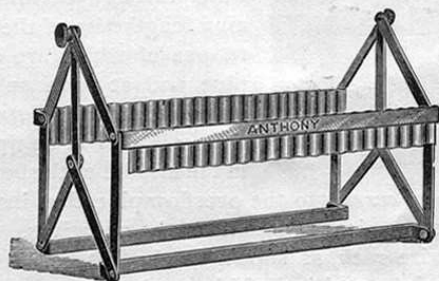
Coe's Negative Washing Rack.



A convenient and compact washing rack for negatives which, when not in use, may be folded together to occupy extremely small space. It is made of metal and is kept open by a metal button locking into a slot.

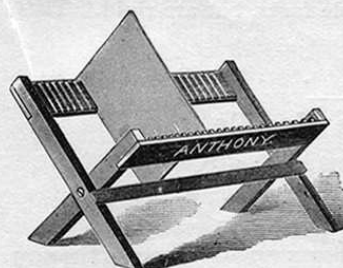
Price each, \$1.00

Adjustable Negative Washing Rack.



THIS Negative Rack is made entirely of metal and is fastened at the joints with rivets which allow it to be opened or closed, to take any sized negative desired, the joints are held in place after being opened to the proper size, by set screws at either end. Price, each, \$1.50.

Anthony's Folding Negative Rack.

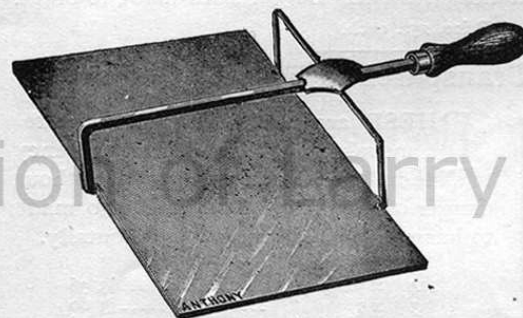


ANTHONY'S FOLDING NEGATIVE RACK, for holding 24 plates while drying; when not in use it can be folded and hung on a nail. Price, 40 cents each.

Small size, similar to above, for twelve 2½ x 2½, lantern slide or 4 x 5 negatives, 50c.

Same as larger one, mentioned above, but with grooves for thirty-six plates. Price, 50 cents each.

Anthony's Adjustable Developing Fork.



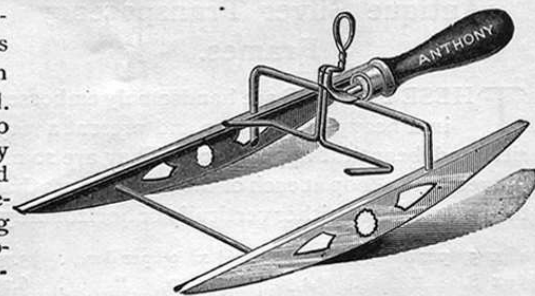
AS seen by the cut, this is for holding the dry plate during developing and washing. It entirely prevents soiling of hands, and by its aid the plate is easily examined and returned to solution, saving necessity of ridges and elevations on bottom of tray

to prevent capillary attraction. They are made in two sizes, nickel plated.

No. 1, for plates, 3¼ x 4¼ to 5 x 8,	Each, 60 cts.
" 2, " 4 x 5 to 8 x 10,	" 90 "

Allderige's Developing Rocker.

THE regularity of the motion allowed by the Rocker necessitates the use of less solution and diminishes the danger of streaked plates. It not only protects the hands, but serves also to raise the plate from the tray when desired. The rocker is adapted to the sizes of trays mostly used by professional and amateur. It is also useful in toning and fixing prints, the motion keeping the solution in constant agitation.



Price, each, \$1.50

The Skeleton Non-Adjustable Developing Fork.

THESE resemble in shape the adjustable forks, but are rigid. They are made of nickel wire.

For 4 x 5 or 5 x 8 plates, Each, 30 cts.

The Perfect Plate Handle.

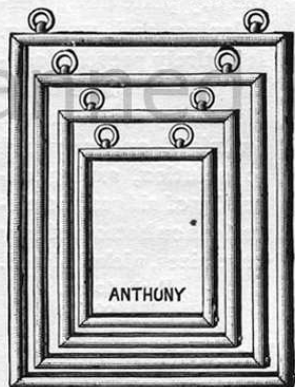
MADE in four sizes, of spring wire, handsomely nicked. Size No. 1 is for plates $3\frac{3}{4} \times 4\frac{1}{4}$, $4\frac{1}{4} \times 6\frac{1}{2}$, or any plates having a $4\frac{1}{4}$ inch measurement. Size No. 2 is for any plates having a 5 inch measurement. Size No. 3 is for any plates having a $6\frac{1}{2}$ inch measurement. Size No. 4 is for any plates having an 8 inch measurement. Larger sizes made to order.

Price, 25c. 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.

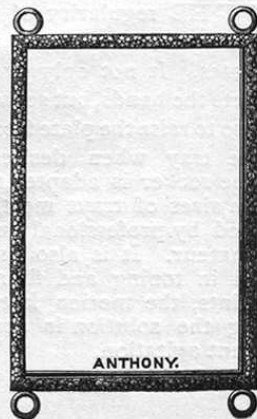


4 x 5, per doz	-----	\$3 36
5 x 7, "	-----	3 60
5 x 8, "	-----	4 08
$6\frac{1}{2} \times 7\frac{1}{2}$, "	-----	4 56
$6\frac{1}{2} \times 8\frac{1}{2}$, "	-----	4 56
$6\frac{3}{4} \times 9$, "	-----	5 25
8 x 10, "	-----	5 76
10 x 12, "	-----	8 00
11 x 14, "	-----	10 00

Antique 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 x 5, per doz., .	\$3.75	$6\frac{1}{2} \times 9$, per doz., .	\$5.75
5 x 8, "	4.50	8 x 10, "	6.25
$6\frac{1}{2} \times 7\frac{1}{2}$, "	5.00	10 x 12, "	9.50
$6\frac{1}{2} \times 8\frac{1}{2}$, "	5.00	11 x 14, "	11.25



Covering Glass for Lantern Slides.

Price, $3\frac{1}{4} \times 4$	Per dozen, 30 cents.
" $3\frac{1}{4} \times 4\frac{1}{4}$	" 45 "
" 4×5	" 60 "

Orange and Ruby Glass.

For Dark Rooms.

8 x 10, per light,	\$0.30
10 x 12, "	50
11 x 14, "	55
13 x 16, "	70
12 x 20, "	80

Ruby and Orange Fabric.

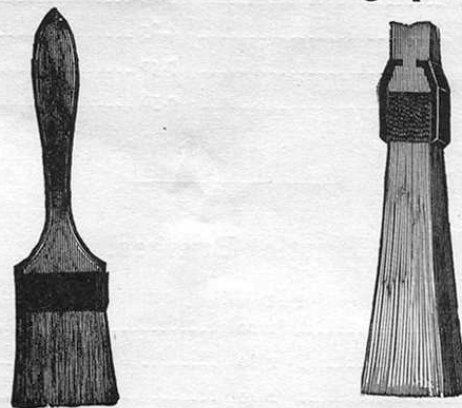
A VERY desirable article for lighting dark rooms. Price per square yard, either shade, 50 cents.

Hard Rubber Plates.

For Drying Paper Negatives.

4 x 5, $\frac{1}{8}$ in. thick,	10 cts.	$\frac{5}{8}$ in. thick,	15 cts.
5 x 7, "	18 "	"	27 "
5 x 8, "	20 "	"	30 "
$6\frac{1}{2} \times 8\frac{1}{2}$, "	30 "	"	45 "
8 x 10, "	40 "	"	60 "

Hard Rubber Set and Bound Photographers' Brushes.



THESE BRUSHES, though somewhat more expensive than the ordinary make, are well worth the difference in price, being absolutely the best thing of the kind ever made. The bristles are secured

Catalogue for Amateurs.

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.

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



Camel's-Hair Dusters.

	Per Dozen.	Each.
1 inch	\$2 25	\$0.20
1½ "	3.45	30
2 "	4.85	40
2½ "	7.40	.65
3 "	9.56	.80

Bristle Brushes.

	Per Dozen.	Each.
1 inch	\$1 20	\$0.12
1½ "	1 80	20
2 "	2 40	25
2½ "	3 00	30
3 "	3 60	40

Catalogue for Amateurs.

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. When desired with two rings only, 50 cents per dozen less.

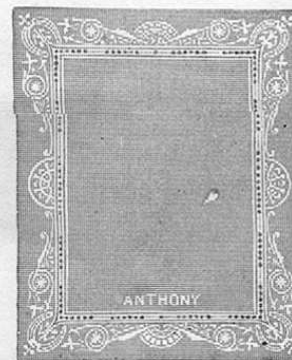
PRICES.

4 x 5, per doz.,	\$4.75	6½ x 9, per doz.,	\$6.75
5 x 8, " "	5.75	8 x 10, " "	7.00
6½ x 7½, " "	6.00	10 x 12, " "	9.50
6½ x 8½, " "	6.25	11 x 14, " "	12.00

Plain Ground Glasses for Transparencies or Cameras.

4 x 5, each,	\$0.10	6½ x 8½, each,	\$0.20
4½ x 6½, " "	13	8 x 10, " "	.25
5 x 8, " "	15	10 x 12, " "	.38

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.

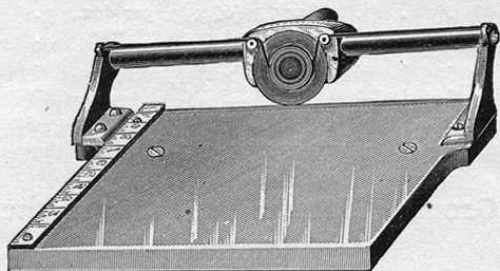
6½ x 8½ glass for picture	4½ x 6½,	\$0.33
8 x 10 " "	5 x 7,	42
10 x 12 " "	7 x 9,	63
11 x 14 " "	6½ x 9½,	75

The 8 x 10 size is also carried in stock with the BORDER ETCHED IN COLOR. Price, 60c.

Catalogue for Amateurs.

The Climax Cutter and Beveler.

IS the acme of perfection. A solid iron base gives great stability to this instrument and insures 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

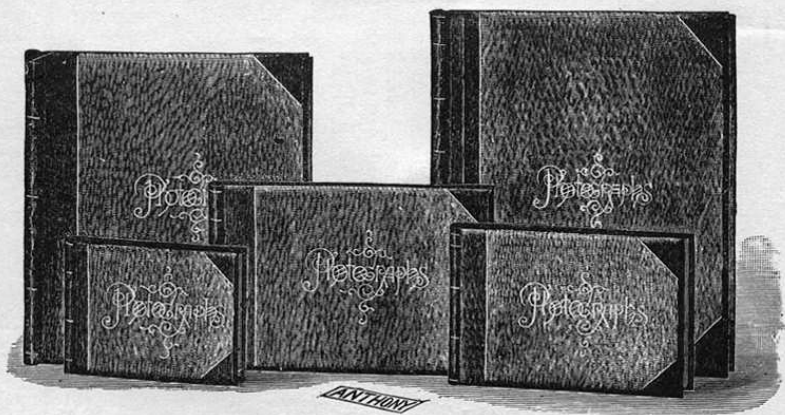


simplest possible kind. The accompanying cut gives a good idea of the general arrangement. Paper, cards or ferrotype plates may readily be trimmed or cut with it. A scale of inches and fractions thereof serves as a guide and will be found useful. The whole instrument is simple and durable.

PRICE.

10 inch.....\$9 00.
With beveler.....\$15.00

Anthony's Amateur Albums.



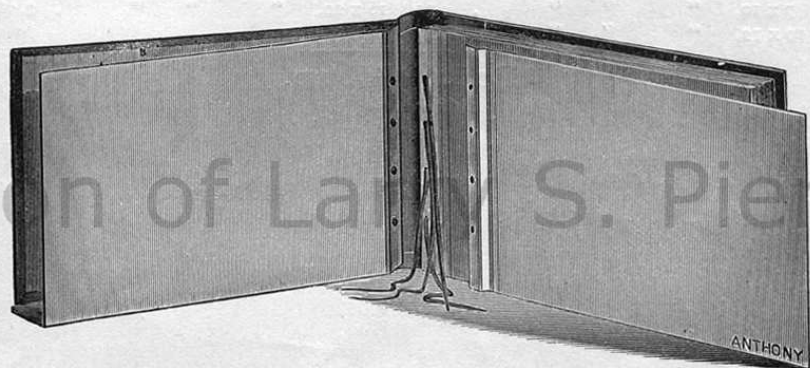
FOR preserving prints from negatives of one's own work, these Albums form a handsome and interesting addition to the library table. They are very beautifully bound in cloth, with gilt stamp on side,

Catalogue for Amateurs.

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 . . .	\$.50	\$.50
6 x 7 " 4 x 5 " . . .	1.10	
7 x 10 " 5 x 8 " . . .	1.30	
10 x 12 " 6½ x 8½ " . . .	1.95	1.25
11 x 14 " 8 x 10 " . . .	2.40	1.75

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 remounted 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 rearrangement of subjects from time to time.

Catalogue for Amateurs.

Handsomely bound in full plain cloth, with linen laces, containing 25 Collins' cards, each—

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

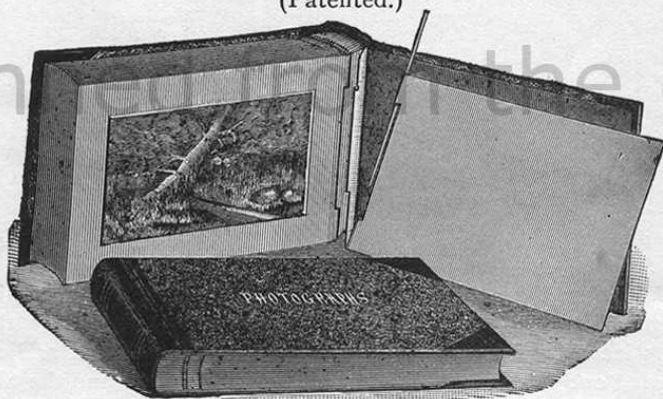
Bound in cloth, with leather back and corners, with gold rules and gold side stamp and with silk laces, containing 25 Collins' cards, each—

Size of Cards.	Price.	Size of Cards.	Price.
5 x 6, for 3¼ x 4¼ print.....	\$1 35	11 x 14, for 8 x 10 print.....	\$3 00
6 x 7, " 4 x 5 "	1 50	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.

Size.	Price.	Size.	Price.
5 x 6, per package of one dozen, .	\$0.38	11 x 14, per package of one dozen, .	\$0.90
6 x 7, " " " " " " " " " " " "	. 40	14 x 17, " " " " " " " " " "	. 2.00
7 x 10, " " " " " " " " " " " "	. 50	16 x 20, " " " " " " " " " "	. 2.40
10 x 12, " " " " " " " " " " " "	. 75		

Eclipse Album.
(Patented.)



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.

Extra cards for Eclipse Album may be had if desired.

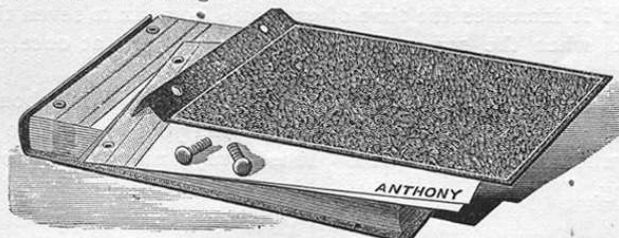
Price with twenty-four Collins' Cards.

No. 1,	6 x 7 cards, for 4 x 5 photographs.....	\$2 25
" 2,	7 x 10 " " 5 x 8 "	2 50
" 2½,	10 x 7½ upright.....	3 50
" 3,	10 x 12 cards, for 6½ x 8½ photographs.....	3 75
" 3½,	12 x 10 upright.....	4 25
" 4,	11 x 14 cards, for 8 x 10 photographs.....	4 25

Catalogue for Amateurs.

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 forty 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

The Squeegee Album.

THESE Albums meet a long-felt want, being designed to do away with the necessity for pasting prints into books. All regular sizes of openings are supplied, and each leaf has openings on both sides. An 11 x 14 Album will hold Two Hundred 4 x 5 Prints. These Albums have all the advantages of the Patent Extensible Back, and the general neat appearance of the well-known Morehouse Album; having, at the same time, openings for all sizes of prints. No cockling or warping of the leaves; no mounting.

PRICE LIST SQUEEGEE ALBUMS.

Each containing 25 leaves.

STYLE D. Bound in Full Cloth, Handsomely Embossed in Gold Leaf.	STYLE E. Bound in Half Leather and Half Cloth, Embossed.	STYLE F. Bound in Seal Grain Back and Corners, Handsomely Embossed and Rolled in Gold Leaf.	STYLE G. Bound in Full Seal Grain Leather; Heavy Bevel Covers, Embossed.
6 x 7 - \$1.50	6 x 7 - \$1.75	6 x 7 - \$2.25	6 x 7 - \$2.50
7 x 10 - 2.00	7 x 10 - 2.25	7 x 10 - 2.75	7 x 10 - 3.25
10 x 12 - 3.00	10 x 12 - 3.50	10 x 12 - 4.00	10 x 12 - 5.50
11 x 14 - 3.50	11 x 14 - 4.00	11 x 14 - 4.50	11 x 14 - 6.50

PRICE LIST SQUEEGEE LEAVES.

In ordering leaves, trouble will be saved by mentioning the numbers, and the color, white or gray.

No.	6 x 7 Leaf, 2 Openings for 4 x 5 prints	PER DOZEN.
1.	6 x 7 Leaf, 2 Openings for 4 x 5 prints	\$0.50
2.	7 x 10 " " " " " " " " " " " "	.75
3.	10 x 12 " " " " " " " " " " " "	1.25
4.	11 x 14 " " " " " " " " " " " "	1.50
5.	11 x 14 " " " " " " " " " " " "	1.50
6.	11 x 14 " " " " " " " " " " " "	1.50
7.	11 x 14 " " " " " " " " " " " "	1.50
8.	7 x 10 " " " " " " " " " " " "	.75

Yellow Screens for Use with Orthochromatic Plates.

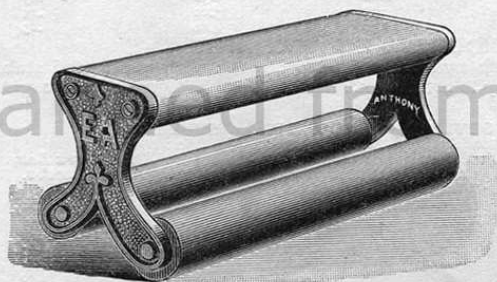
FOR giving the true color value to copies of oil paintings, colored pictures, and even views of nature, this article is a positive necessity. As it increases the time of exposure from six to seven times that required when the screen is not used, it is seen at once that it is unsuited to instantaneous photography.

The Yellow Screen can be put on the inside of the front board of the camera, attached by screws or tacks, or better yet, arranged to fit into a rabbet when its use is desired. It is always put in position before focussing.

PRICE.

Yellow Screen, 3 1/4 x 4 inches.....\$1.00

Special sizes made to order if desired.



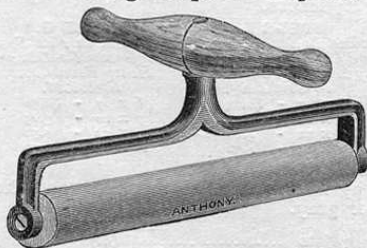
The Success Print Mounter.

THE illustration describes it fully.

6 inch, . . . \$1.00
12 " . . . 1.50

Anthony's Squeegee Roller.

ANSWERS the purpose of both squeegee and print mounter, being adapted for prints of all sizes. It consists of a single roller, made of the finest velvet rubber, fastened to a single handle. When in use for mounting, the handle is set at right angles to the roller; for packing, it is laid parallel to the roller.



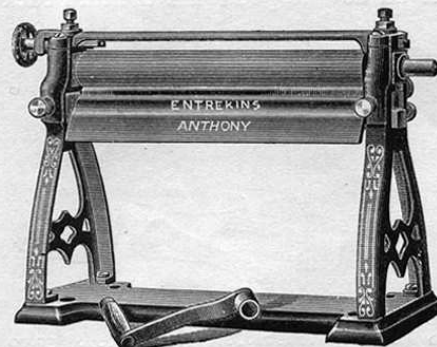
PRICE.

6 inch.....\$0.75
9 inch..... 1.00

Entrekin's Improved Eureka Burnisher

HAS the turn back roll, operated by pulling out the two spring bolts in front of the housings of the upper roll.

The adjustment is regulated at one motion by the one wheel end device, and may be renewed when worn in journals or boxes by lock nut and set screw.



The burnishing tool may be shifted from time to time so that its whole surface is available.

It may be heated with Alcohol, Oil or Gas.

PRICES.

15 inch Roll 30.00

Entrekin's Victor Burnisher.

HAS the patent turn back roll, by which the roll may be swung back from the burnishing tool while heating or cleaning.



A removable burnishing tool which may be replaced at nominal cost when worn out.

Quick and accurate adjustment of the roll is obtained by one motion, and in case of uneven wear of the journals and boxes, may be re-adjusted by means of lock nut and set screw.

The Victor is quickly heated, either with Alcohol, Oil or Gas.

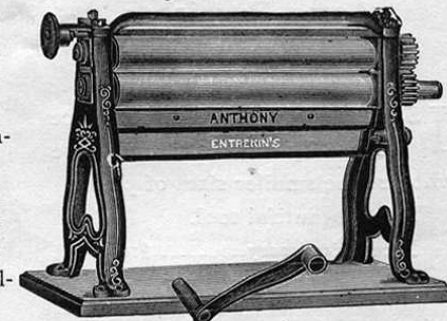
Medium light pressure should be used.

8 inch Roll \$10.00 | 10 inch Roll \$15.00
15 inch Roll \$20.00

Entrekin's Accurate Rotary Burnisher.

THE principle on which the Rotary Burnisher is constructed being similar to that of a calendering machine, scratches on the print are impossible.

This machine has the one wheel end adjustment, the lock nut and set screw and drop fire pan. It may be heated with alcohol, oil or gas.

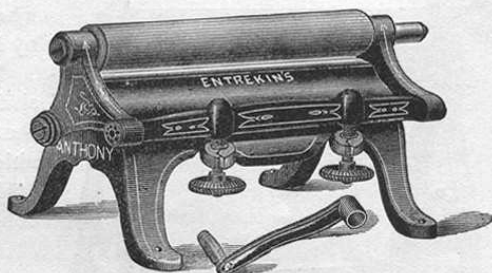


10 inch Roll.....\$20.00

Entrekin's Eureka Burnisher.

MORE than 68,000 of these machines have been sold during the last few years. The Eureka is a heavier machine than the other styles, which many consider an advantage; it has the turn back roll and removable burnishing tool, the former being held in place by the heavy pressure screws shown in the cut.

The adjustment is regulated by an adjusting screw and is easily, quickly and perfectly changed for thick or thin cards.



PRICES.

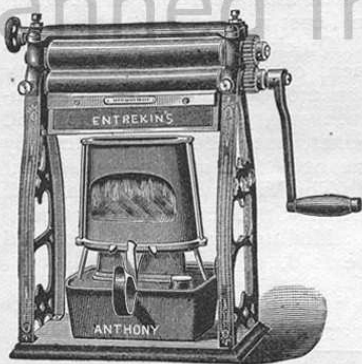
10 inch Roll.....	\$12.50	20 inch Roll.....	\$50.00
14 inch Roll.....	22.50	25 inch Roll.....	55.00

Entrekin's Improved Rotary Burnisher

IS the best Rotary Burnisher in the world. This machine has the turn back roll, the one wheel end adjustment, lock nut and set screw and swing fire pan.

The 10 inch size is made in two styles, light and heavy.

It may be heated with Alcohol, Oil or Gas.



PRICES.

8 inch Roll.....	\$12.00
10 inch Roll, light	15.00
10 inch Roll, heavy	25.00
15 inch Roll.....	30.00
20 inch Roll.....	40.00
25 inch Roll.....	55.00

Acme Burnisher,

8-INCH,

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

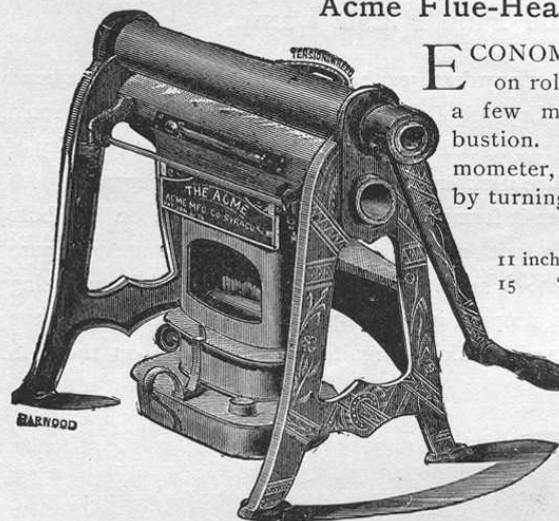
It is a beautiful tool.

Price of Stationary.....	\$10 00
“ Rotary.....	13 00



Acme Flue-Heating Burnisher.

ECONOMICAL. No moisture on rolls. It can be heated in a few minutes. Perfect combustion. Heat gauged by thermometer, and held at one point by turning wick up or down.



11 inch Roll, gas or oil	\$25.00
15 “ “ “	35.00

Entrekin's Magic Lubricator.

For Burnishing Photographs.

Price, per cake.....	15 cents.
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Richardson's Lubricator.

4 ounce bottle.....	35 cents	8 ounce bottle.....	70 cents.
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Anthony's Enameline.

For Cleansing and Enameling Photographs, per bottle.....	62 cents.
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Anthony's Non-Actinic Paper.

PREPARED expressly to exclude actinic rays, and especially useful in gelatino-bromide dry plate photography.

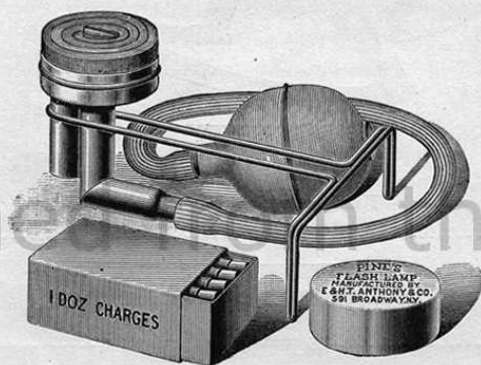
Price, per dozen, in sheets of 12 x 19 inches.....	\$1 50
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Papers.

Onion Skin, for vignetting, etc., per dozen.....	\$0 25
Cepa Skin, for vignetting, very fine, per dozen.....	20
White Blotting Paper, extra heavy, 19 x 24, per dozen.....	60
Best Square White Filtering Paper, per quire.....	40
Gum, or Sticking Paper, per dozen, 20 cents; gross.....	1 75
Sheplie's Gum Paper, per roll of 300 yards.....	60
Lantern Slide Binders, per package of 50.....	15

The Pine Flash Lamp.

THIS lamp possesses many features that make it possibly the best hand flash lamp at the disposal of the photographer. It is so constructed that the greatest amount of light is obtained with the smallest quantity of magnesium powder. The wick in the circular cup is impregnated with alcohol and lighted, when it forms a conical flame. Pressure on the bulb lengthens this flame to a foot or more. The powder, which must be pure magnesium, is loaded into a small glass capsule and, the wick cup being removed, this capsule is dropped into the upright arm of the body of the lamp, the cup replaced and the alcohol ignited. By pressure on the bulb



the powder is forced through the flame, a flash, of great rapidity and covering a considerable area, being attained. It must be borne in mind that *only pure magnesium powder* must be used. The cost of each flash, as made by the Pine Lamp, does not exceed one and a half cents. Each lamp is supplied with one dozen capsules of powder without charge. After the capsules have been emptied they may be reloaded again and again. This lamp is free from complicated parts and is easy of manipulation. All parts are perfectly interchangeable and, in case any are lost, new ones can be supplied. When firing the flash the lamp may be either held in the hand or attached to a support by means of the device just beneath the wick cup.

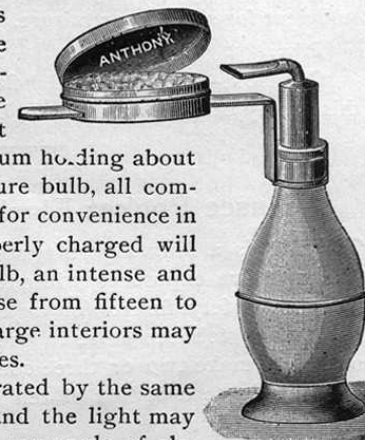
PRICES.

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

Mize Flash Lamp.

(Patented Oct. 22, 1889.)

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.



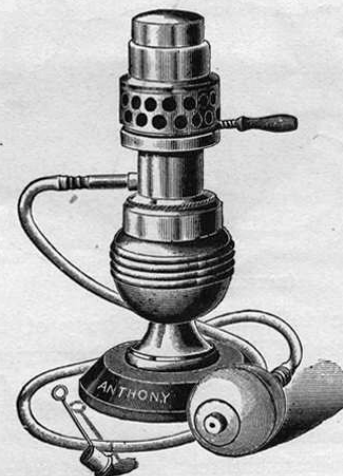
The apparatus is held in and operated by the same hand, and requires no other support, and the light may be projected in any direction, and at any angle of elevation.

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.

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

Catalogue for Amateurs.

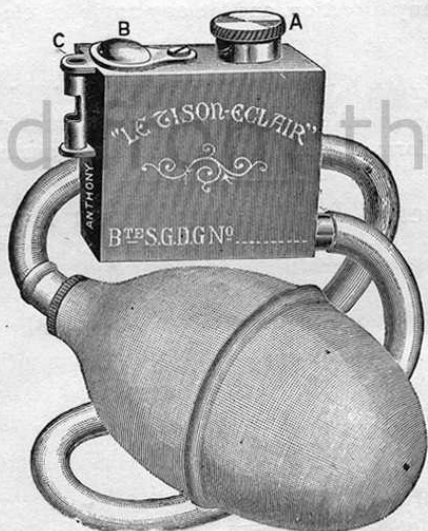
amount of smoke given off is insignificant, exposure succeeding exposure without hindrance therefrom. The full charge is 15 grains (at the utmost 20 grains) of *pure magnesium*, a few grains, however (3 to 5), being sufficient for simple portraiture. Full directions accompany each lamp.

Price, \$4.50

CAUTION.—The so-called “flash powders” should never be used in this or any other form of lamp, but only pure magnesium.

Fusee Pocket Flash Lamp or Tison Éclair.

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.



(PATENT APPLIED FOR.)

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.

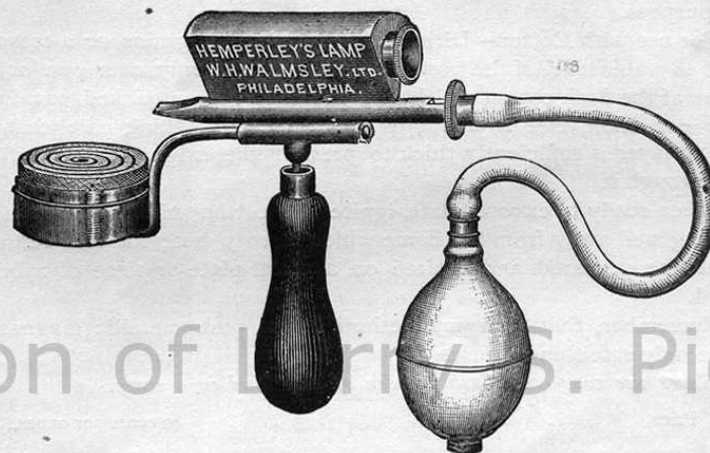
Price (including a bottle of pure Magnesium Powder and a box of Fusees), \$1 50.

Catalogue for Amateurs.

Hemperley's Magazine Flash Lamp.

SELF LOADING, FOR USE WITH PURE MAGNESIUM POWDER ONLY.

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.



(Model of 1890.)

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

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 3¼ ounces of Developer.

Price, per box.....\$1.20

Anthony's Pure Metallic Magnesium

For use with any of the ordinary Flash Lamps, or in combination with Anthony's Flash Cotton.

FOR use with Magnesium Lamps, according to printed directions furnished with the various kinds of lamp.

This Magnesium Powder, being entirely free from explosive compounds, will not ignite by application of fire only, but is suitable only for use with a flash lamp or with our flash cotton specially prepared for the purpose.

For use with Cotton—Directions: Sprinkle 15 grains or a teaspoon filled to water level of the powder, lightly and evenly over one or two layers of the flash cotton which has previously been picked out, into a flaky condition, free from lumps and bunches; taking care that the bottom layer is sufficiently thick to prevent the magnesium from filtering through it.

When ready to expose plate, ignite the cotton with match or taper, keeping well away from the flame which is very hot; for this reason it should be prepared and ignited on a metal plate or piece of asbestos board.

Remember, that with magnesium lamps, pure metallic magnesium is the only safe thing to use.

Never use compound flash powder of any kind in a lamp.

Price, 40 cents per ounce.

Anthony's Compound Magnesium Powder

For Instantaneous Photography at Night, or in Dimly Lighted Interiors.

THIS POWDER is *unexcelled* for its *actinic power* and *absolute safety*. It is entirely free from chlorate of potass—it *cannot explode, either by friction or concussion, but can only be ignited by actual contact with flame*. It is especially useful in copying with orthochromatic plates, objects in which color values are particularly important. Oil paintings and rich interior decorations photographed by this light, in conjunction with orthochromatic plates, will give results of extraordinary fidelity.

It is put up in cans, each containing one ounce, which is sufficient for two dozen ordinary exposures.

This powder is only intended for use *without lamp*, and *must never be used with lamp of any make*.

Price, per ounce, 50 cts.

This cannot be sent by mail.

Daisy Permanent Starch Paste.

THERE has been for a long time a demand for a starch paste that would neither mold, sour nor discolor, yet put up in a convenient form ready for use. We now introduce such an article, under the name of the Daisy Permanent Starch Paste.

Put up in 1/2 pint jars.....	Each, \$0.25
" 1 " bottles.....	" .35
" 1 quart ".....	" .55
" 2 " ".....	" 1.00
" 1 gallon ".....	" 2.00

Focusing Cloths.

Extra fine quality rubber focusing cloth, per square yard, 50 cents.

Absorbent Cotton.

1 lb. package,	40c.
8 oz., in paper box,	25c.
4 oz., in paper box,	15c.



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.



Higgins' Photo-Mounter

IS an always-ready adhesive which will not spill, spatter, nor drop off the brush. It never hardens, separates or becomes gritty. Does not cockle, strike through, nor change the tone. Never molds, sours, or deteriorates in any way. It is a perfect adhesive, scientifically made to meet the special requirements of photograph mounting.

Prices (in Screw Capped Jars).

3 oz.....	\$0.15	1/2 gal.....	\$2.00
6 ".....	.25	Gal.....	3.50
14 ".....	.50		

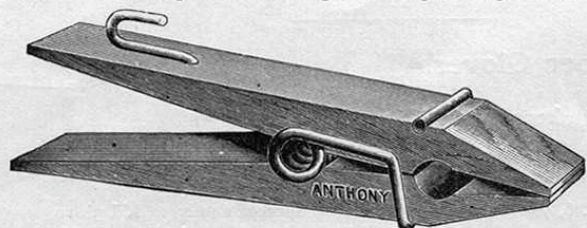
Glass Stirring Rods.

8 inch, each	----- \$0.10	15 inch, each	----- \$0.20
12 " "	----- .15	18 " "	----- .25

Both ends are glazed finished.

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

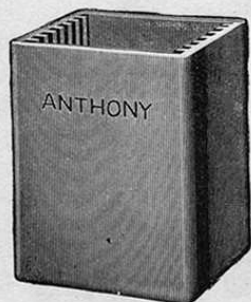
for any other article of its kind. Price per gross, \$2.50; price per dozen, 25 cents.

Papier Maché 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.

1½ pint	----- \$0.17	2 quart	----- \$0.25
1 quart	----- 0.20	3 "	----- 0.30
4 quarts	----- 0.40		



Hard Rubber Washing Boxes

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	5 x 8	----- \$2.50
4½ x 6½	----- 2.25	6½ x 8½	----- 3.00
5 x 7	----- 2.50	8 x 10	----- 3.50

Papier Maché Washing Boxes

ARE unsurpassed for durability, economy, lightness and ease of handling. They are very strong and thoroughly practicable in every way.

PRICE.

8 x 10	----- \$1.75
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Anthony's Aristotype Paste

IS an unexcelled mountant for either silver prints or aristotypes. 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	----- \$0.30	Per doz. cans	----- \$3.00
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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, \$2.75
103.	Warm Black	"	" " 2.75
104.	Engraving Black	"	" " 2.75
105.	Sepia	"	" " 2.75
106.	Red Chalk	"	" " 2.75
105.	Lambertype Purple (for Portraits)	"	" " 2.75
107.	Special Trans'y Black	2 x 12 ft.	" " 3.60
86.	Autotype Final Support	2½ x 12 ft.	" " 1.30
112.	Sawyer's Temporary Support, Sheets 18 x 23 ins., per sheet		.35
	" " " " dozen sheets		3.80
	Johnson's Actinometer with Sensitive Paper		1.10
	Waxing Compound (for Solution in Turpentine), cake		.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.

Special Daylight Tissue.

SAME as the regular article, but coated on non-actinic paper, which, after being sensitized, can be squeegeed upon an opaque support, and dried in ordinary light. Furnished, in full bands only, of following colors: Standard Brown, Engraving Black, Red Chalk, and Sepia, at \$3.00 per band.

Complete Instructions for Working the Carbon Process in our Publication No. 33, "Carbon Printing for Professionals and Amateurs." Price, 50 cents.

A B C Manual of Carbon Printing. By the Autotype Co. Illustrated, handsomely bound, \$1.00.

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 18 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

"Hyko" Developer

IS a combination of hydroquinone and eikonogen, capable of producing the finest quality of negatives. It is well adapted for all classes of work, instantaneous and time exposures, lantern slides, and bromide and argentic paper. Being put up in two separate solutions, either density or detail can be increased at will. For those who desire clean hands and clean negatives, "Hyko" is the developer.

Price, per package of two bottles, 50 cents.

Wynne's Infallible Exposure Meter.

THE simplest and most compact piece of apparatus for correctly timing exposures is Wynne's infallible exposure meter. The four conditions governing exposure are all taken into account. These conditions are: (1) the intensity of the light which illuminates the subject; (2) the diaphragm or stop employed; (3) the character of the subject; (4) the sensitiveness of the plate used. The first is determined by the time taken for the sensitive paper in the actinometer to color to standard tints. This varies from two or three seconds to a minute or so, and is called the actinometer time. There are two tints in the actinometer, the lighter tint being one-fourth the darker or standard tint, and being used in cases where the light is very weak. The instrument is marked with the diaphragm numbers. A table of the relative sensitiveness of the various brands of plates is supplied with each instrument. To calculate the correct exposure, one movement only is necessary. The movable scale of the instrument is turned until the actinometer time in seconds upon the exposure scale is opposite the diaphragm number of the plate. The correct exposure in seconds and fractions of seconds will be found against each stop, from the largest to the smallest. As an example, we will suppose that we are photographing an ordinary landscape on a Cramer Banner plate. The sensitiveness of the plate is given on the table as *F. 78*. The paper, we will presume, took twelve seconds to darken to the standard tint, and the diaphragm we are using is *F. 16*. Move the scale until twelve is opposite *F. 78*. Then, against *F. 16* will be found the correct exposure, one-half second.



Price, with full instructions, \$2.50

Catalogue for Amateurs.

Amateurs' Card Stock.

PLAIN EDGE MOUNTS, ROUND CORNERS.
PRIMROSE AND PEARL.

	PER HUNDRED.
No. 130. Cartes de Visite, size 2½ x 4¼	\$0.25
" 130. Cabinets, size 4¼ x 6½	.55
" 9. Boudoir (5¼ x 8½) or 5 x 8	1.30
" 9. 3½ x 4½	.55
" 9. 4¼ x 5¼	.70

GOLD BEVELED EDGE MOUNTS, ROUND CORNERS.
PRIMROSE AND PEARL.

No. 106. Cartes de Visite, size 2½ x 4¼	.65
" 106. Cabinets, size 4¼ x 6½	1.10
" 28. Boudoirs (5¼ x 8½) or 5 x 8	2.30
" 106. Carré, size 3 x 3	.90
" 28. 3½ x 4½	.90
" 28. 4¼ x 5¼	1.10
" 28. 5 x 7	1.90
" 28. 6¼ x 8½	2.65
" 28. 8 x 10	3.90

GOLD BEVELED EDGE MOUNTS, ROUND CORNERS.
DARK COLORS.

No. 127. Cartes de Visite, size 2½ x 4¼, maroon	.70
" 66. " " " black	.70
" 127. Cabinets, size 4¼ x 6½, maroon	1.20
" 66. " " " black	1.25
" 65. Boudoir (5¼ x 8½) or 5 x 8, maroon	2.40
" 26. " " " black	2.75
" 65. Carré, size 3 x 3, maroon	.70
" 65. 3½ x 4½, maroon	1.10
" 26. " " " black	1.10
" 65. 4¼ x 5¼, maroon	1.15
" 26. " " " black	1.35
" 65. 5 x 7, maroon	2.00
" 26. " " " black	2.25
" 67. 6¼ x 8½, maroon	3.60
" 26. " " " black	3.20
" 67. 8 x 10, maroon	5.50
" 26. " " " black	4.80

PLAIN CARDBOARD, SQUARE CORNERS.
WHITE OR GRAY.

No. 1. 6½ x 8½	1.20
" 1. 8 x 10	1.60
" 1. 10 x 12	2.38

PLAIN WHITE CARDS, WITH GILT LINES.

No. 2. 6½ x 8½, gilt lines, 4 x 5	2.00
" 2. 8 x 10, " 5 x 8	2.40

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	.65
" Glacial, g. s. b., 1 oz., 15 cents; 4 oz., 25 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.	.70
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	1.10
" " " per lb.	.30
" C. P. " " "	.45
" " " per oz., 12 cents; per ½ lb.	.25
Oxalic, c. b., per oz., 10 cents; per lb.	.30
Pyrogallic, E. A., c. b., per oz. bottle	.35
" " " " oz. can	.35
" " " " 4 oz. can	1.05
" " " " 8 "	2.00
" " " " 16 "	3.75
" " " " 5 lb. can	18.00

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 CRAMER DRY PLATE CO. THE CARBUTT DRY PLATE CO.

THE STANDARD DRY PLATE CO.

And Many Others.

See that it has the E. A. Trademark.

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.

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Catalogue for Amateurs.

Acid, Sulphuric, C. P., g. s. b., 1 oz., 12 cents; 4 oz. bottle, 20 cents; per lb. bottle,	\$0.45
Salicylic, per oz.....	.25
Sulphite, per pint bottle.....	.40
Sulphurous, bottle included, per lb.....	.35
Tartaric, bottle included, per lb.....	.80
Albumen, dry, per oz.....	.15
Alcohol, 95 per cent. c. b., per pint.....	.50
Quart, 80 cents; ½ gallon, \$1.50; gallon, \$2.75, no bottle.	
Alum, Powdered, per lb.....	.10
Chrome, per lb., in box.....	.20
Ammonia, liq. conc., g. s. b., ½ lb. bottle, 25 cents; lb. bottle, 30 cents; 4 lb.	.82
Ammonium, Iodide, Anthony's C. P., per oz.....	.40
Bromide, Anthony's C. P., bottle included, per oz., 12 cents; per lb.....	.85
Bichromate, c. b., bottle included, per lb.....	1.20
Carbonate, c. b., bottle included, per lb.....	.40
Chloride, c. b., bottle included, 1 oz., 10 cents; 8 oz., 30 cents; per lb.....	.40
Hydrosulphate, c. b., bottle included, per 5 lb.....	2.60
Nitrate, fused, c. b., per oz., 10 cents; 1 lb. bottle.....	.45
Sulphocyanide, c. b., bottle included, per oz.....	.18
Barium, Nitrate, c. b., bottle included, per oz., 10 cents; per lb.....	.28
Carbonate, c. b., " " " 15 " ".....	1.50
Chloride, c. b., " " " 10 " ".....	.35
Benzole, extra quality, c. b., bottle included, per pint.....	.60
Borax, per lb.....	.15
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.....	.45
Chloride, c. b., bottle included, per oz.....	.50
Calcium, Chloride, c. b., bottle included, per oz., 10 cents; per ½ lb. bottle,	.35
Iodide, g. s. b., bottle included, per oz.....	.45
Bromide, g. s. b., bottle included, per oz.....	.25
Chloroform, c. b., bottle included, 1 oz. bottle, 18 cents; per lb. bottle.....	.75
Copper, sulph., C. P., c. b., bottle included, per lb.....	.40
Acetate, c. b., bottle included, per oz.....	.15
Chloride, c. b., bottle included, per oz.....	.15
Developer, H. T. A., per package of ¼ lb., 8 cents; ½ 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, " " 30 cents; 1 lb.....	.55
Dermaline, to protect the hands, per bottle.....	.25
Dextrine, bulk.....	.12
Eikonogen, 1 oz., 37c.; ¼ lb. can, \$1.20; ½ lb. can, \$2.10; 1 lb. can.....	3.95
Ether, sulph. conc. c. b., bottle included, per lb., 85 cents; 3½ lb.....	2.75
Enamelline, c. b., 6 oz.....	.62
Glycerine, C. P., c. b., bottle included, oz., 10 cents; per lb.....	.45
Gold, Chloride (liquid), 15 gr. bottles, per bottle.....	.70
Gold, Chloride (dry), 15 grains, per bottle.....	.50
Gold and Sodium (dry), 15 gr. bottles, per bottle.....	.40
Gum Arabic, Select, per lb.....	.75
Asphaltum, per lb.....	.20

Catalogue for Amateurs.

Gum Benzoin, per lb.....	\$0.75
Camphor, per lb.....	.35
Damar, per lb.....	.35
Mastic, per lb.....	1.50
Sandarac, per lb.....	.50
Shellac, bleached, per lb.....	.50
Tragacanth, per lb.....	1.20
White Pine Turpentine, per lb.....	.20
Hydrochinone, E. A., per oz.....	.40
Merk's, per oz.....	.40
H. & F., per oz.....	.40
Iodine, resub., g. s. b., per oz.....	.35
Iridium, Potassic chloride, per bottle of 15 grains.....	1.00
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 oz., 15 cents; per lb.....	.85
Lactate, c. b., per oz.....	.18
Perchloride, c. b., bottle included, per lb.....	.80
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.....	.60
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., 40 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., 12 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
Paraffine, per lb.....	.35
Potass, Caustic, per oz.....	.15
Meta-bisulph., per oz.....	.25
Sulpho-cyanide per oz.....	.30
Potassium Bromide, bottle included, c. b., per oz., 12 cents; per lb.....	.70
Bicarbonate, bottle included, per lb.....	.30
Bichromate, C. P., c. b., bottle included, per lb.....	.50
" com., in paper, per lb.....	.20
Carbonate, per lb.....	.25
Chlorate, bottle included, per lb.....	.40
Chloride, " " ".....	.65
Cyanide, c. b., bottle included, ¼ lb. bottle, 20c.; ½ lb. bottle, 35c.; per lb.....	.65

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Catalogue for Amateurs.

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VOLUME VII.

— OF —

THE INTERNATIONAL ANNUAL

WILL BE WITHOUT A RIVAL.

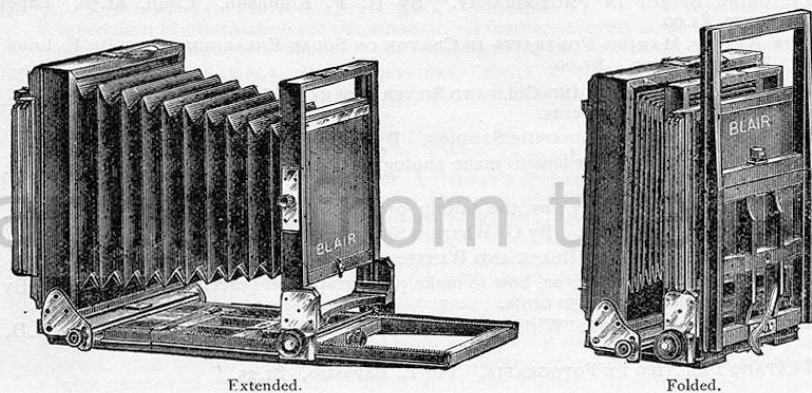
The foremost photographers in every country in the world have contributed to it. Never before have so many famous writers appeared in one volume.

ADDENDA.

Additional Goods of the Blair Camera Co.

Blair's Improved Reversible Back Cameras.

A CONSIDERATION of the many advantages and desirable features of these cameras will explain their great popularity, and the fact that there are many thousands of them in daily use by both professional and amateur photographers.



Extended.

Folded.

They are all constructed to receive, without special fitting, the Blair Patent Extensions for making larger negatives, (see description on page 25).

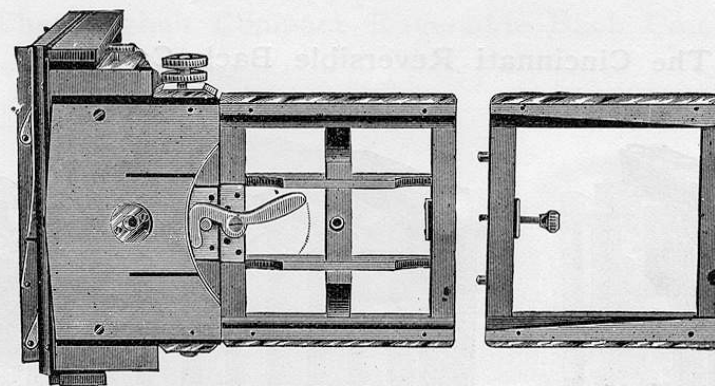
The Reversible Back Adjusters and Plate Holders (feather-weight) are attached by a system of grooves and springs with no projecting screws or pins to injure the polish or the hands.

The construction of the bed frames and bellows, affords a wide range of adjustment, so that short or long focus lenses may be employed to equally good advantage.

Any combination for different sizes can be made by using extra Reversible Back Adjusters for smaller plate holders, and Blair's Patent Extensions for larger ones, so that one camera with these attachments will take the place of several, and kits need never be used.

The method of clamping the bed insures the greatest rigidity, and the two tripod plates allow the camera to be properly balanced when using a long focus lens or an extension.

Prices include one double holder and carrying case for three or six holders, and camera, as desired.



Sections of the Bed.

PRICE LIST OF "IMPROVED" REVERSIBLE BACK CAMERAS.

No.	Size of Plate.	Size of Lens Board.	Capacity for Length of Focus.	Price Single Swing.	Price Double Swing.
1500	4 × 5	3 ³ / ₈ in. sq.	12 in.	\$23.00	
1502	5 × 7	4 ¹ / ₂ "	17 "	31.00	33.00
1503	5 × 8	6 "	18 "	35.00	37.00
1504	6 ¹ / ₂ × 8 ¹ / ₂	6 "	18 "	35.00	37.00
1505	8 × 10	7 ¹ / ₂ × 6 in.	20 "	40.00	43.00

EXTRA REVERSIBLE ADJUSTERS.

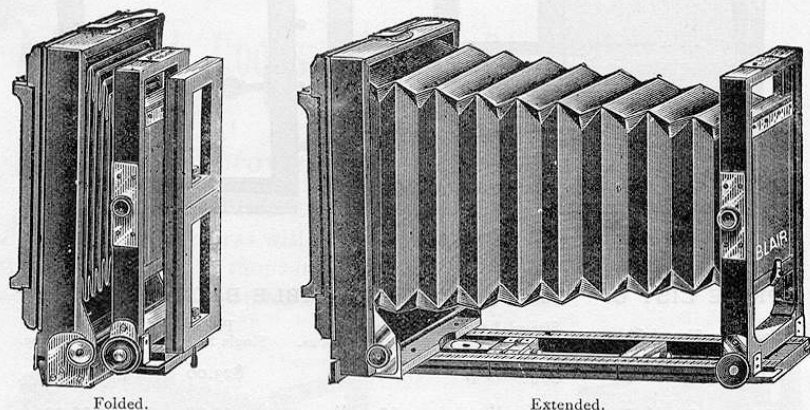
	Price.
For 4 ¹ / ₄ × 5 ¹ / ₂ Camera, Reversible Back	\$5.00
" 5 × 7 " " " "	5.00
" 6 ¹ / ₂ × 8 ¹ / ₂ " " " "	6.00
" 8 × 10 " " " "	7.00

The 5 × 7 Kamaret.

THE KAMARET described on page 37 is also made in size 5 × 7. The peculiar advantage of these cameras is COMPACTNESS WITHOUT FOLDING, and the 5 × 7 Kamaret is scarcely larger than the ordinary 4 × 5 hand camera.

Price, loaded with Blair's Film for 25 exposures,	\$42.50
" " " " " " 50 "	45.00
Double Swing Attachment for glass plates or cut films, with one F. W. Holder,	6.00

The Cincinnati Reversible Back Cameras.



Folded.

Extended.

THIS CAMERA is designed for one which, though thoroughly well made, is less expensive than the "Improved Reversible Back."

It has, however, many of the same advantages, being made to receive the same Reversible Back Adjusters and Patent Extensions, and the illustrations show clearly the construction.

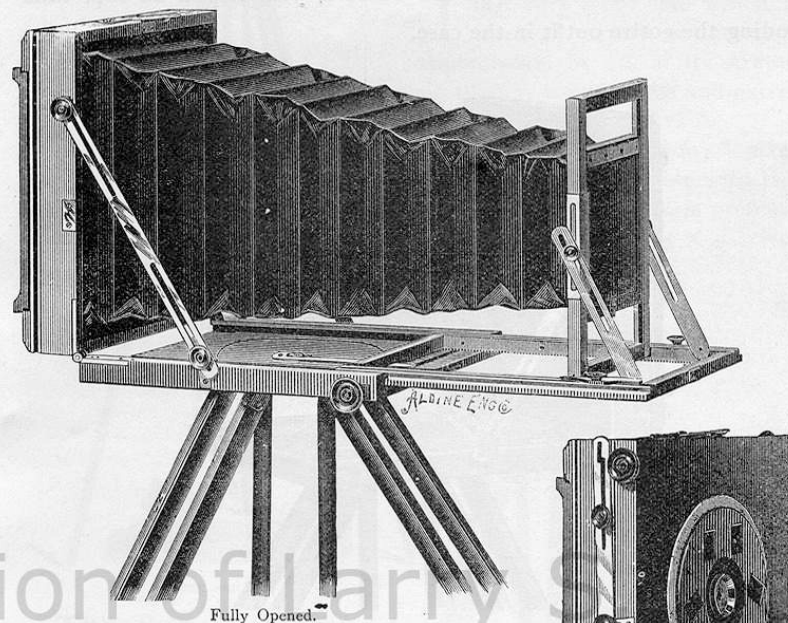
The price includes one double holder and carrying case.

PRICE LIST IMPROVED CINCINNATI R. B. CAMERAS.

No.	Size of Plate.	Size of Lens Board.	Capacity for Length of Focus.	Price. Single Swing.	Price. Double Swing.
1403	5 x 8	6 in. sq.	14 in.	\$30.00	.....
1404	6½ x 8½	6 "	14 "	30.00	.....

The English Compact Reversible Back Camera.

PATENTED.



Fully Opened.

Folded.

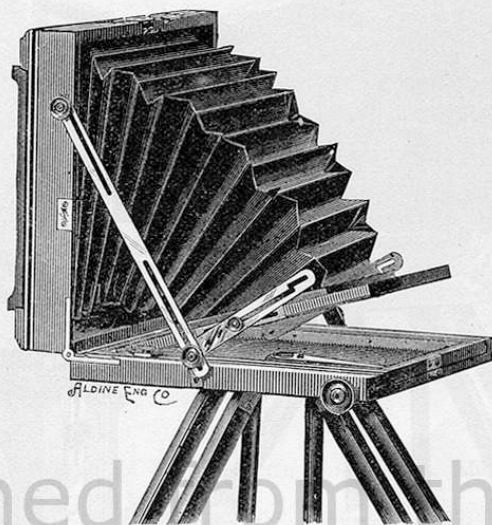
AS the title implies, compactness is the principal feature of this Camera. While it has all the desirable facilities possible, combining great lightness with rigidity, perfection of detail with simplicity and ease of working, it has in the smallest space, and with the least weight, every convenience and facility, with several new movements and devices peculiar to this Camera alone.

The Camera, when closed, measures in thickness in the 5 x 7, 5 x 8, and 6½ x 8½ size, 3½ inches; in the 8 x 10, 4 inches. The partial front view of the Camera, folded, shows the sunken tripod top, with clamping screw in centre, the centre of which (the clamping screw) is bored to receive a regulation tripod screw, thus enabling the operator to use any other form of tripod than that supplied with the Camera.

These Cameras are arranged to use the Blair Patent Extension.

The price includes one F. W. Mahogany Plate Holder, fitted with hard rubber slides, Special Compact Tripod and Carrying Case.

Carrying Cases are made to carry Camera, four Feather-Weight Holders arranged at the end of the Camera, with tripod on top, thus including the entire outfit in the case.



Partly Opened.

The English Compact is the perfection of high grade view Cameras, and in this class of apparatus is without an equal in the world. The Cameras, as well as the tripods and holders supplied with them, are made of best selected mahogany, French polished, and trimmed with hand-finished brass mountings. In convenience, in style, and in finish they are beyond criticism.

PRICE LIST ENGLISH COMPACT R. B. CAMERAS.

No.	Size.	Size of Lens Board.	Capacity for Length of Focus.	Price. All Double Swing.
1407	5 x 8	4½ in. sq.	18 in	\$50.00
1408	6½ x 8½	4½ "	18 "	50.00
1409	8 x 10	6 "	20 "	55.00

The Blair Compact Tripod.

THE very large sale which this tripod enjoys is due to the appreciation by all, of its strength, simplicity, convenience and extreme rigidity.

The No. 00 or "Pony" size is especially adapted to use with Hand Cameras, though No. 0 is preferable for sizes larger than 4 x 5. No. 1 is for larger Cameras.

PRICES:	No. 00	-	-	-	\$3.50
	" 0	-	-	-	4.00
	" 1	-	-	-	4.50



Open and Folded.

The Special Compact Tripod.

THE Special Compact is designed for those who desire to possess a tripod of the very highest grade in point of finish as well as of utility. Made of the best polished maple, with polished metal tips, the effect is extremely handsome, and the safety braces between the arms of the upper section make it impossible for the tripod to become accidentally detached.

Cat. No. 3000 B,	Size 00.	\$6.00
" 3001 B,	" 0.	6.00

Blair Combination Tripod and Additional Leg Folded.



The Blair Combination Tripod.

For Large, Heavy View Cameras.

IN making this tripod strength above all is considered, and only the toughest and most carefully selected materials are used. It is not, however, awkward in appearance, and folds conveniently for carrying.

Cat. No. 3001,	Size No. 2,	intended for 11 x 14 Camera	-	-	\$6.00
" 3002,	" 3,	" larger Cameras	-	-	7.50

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