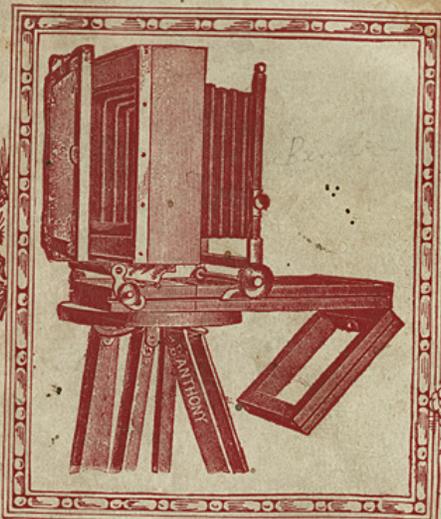
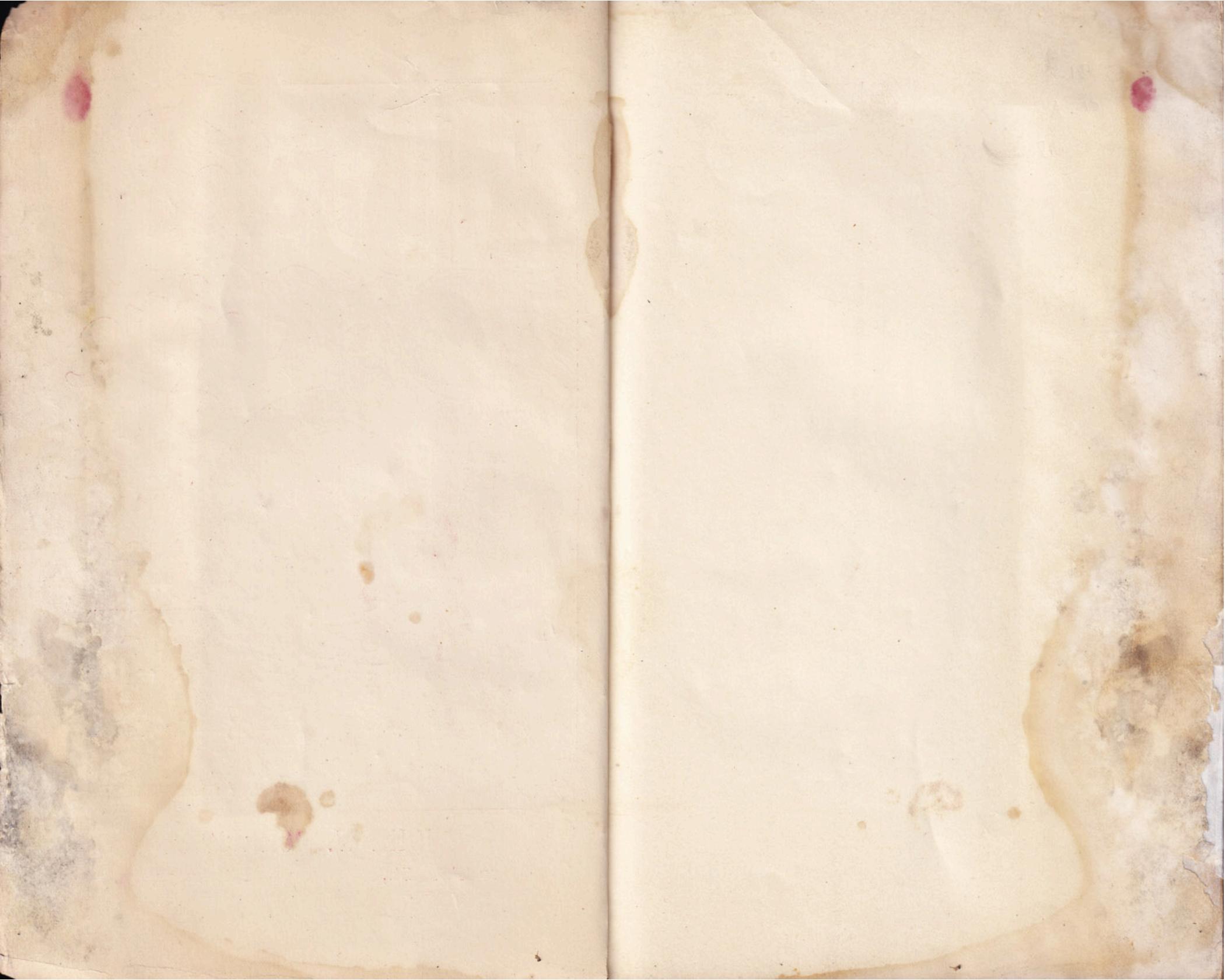


The above solution composed
 of Citrate of Soda 1/2 Water 4 grs. per cent
 of Permian especially for over Exposed
 and Reversals of Platinotype for the Reproduction
 of C. W. ... , treating of Photo-Mechanical Processes
 Vol. 11 ... P. 353-1890



Illustrated
Catalogue
 OF
 PHOTOGRAPHIC
 EQUIPMENTS
 and
 MATERIALS
 FOR
 AMATEURS

JOHN W. MORRISON,
 10 Sixth St., Pittsburgh, Pa.



ILLUSTRATED

CATALOGUE

OF

Photographic

Equipments and Materials,

FOR

AMATEURS.

June, 1889.

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.

—*—

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 objection 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 forty-five years'* diligent effort and experience in the preparation of photographic supplies.

JOHN POLHEMUS,
PRINTER,
102 NASSAU ST., 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.

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 \$19.00 as follows :

No. 1 Equipment, described on page 2,	\$9 00
4 x 5 Developing Outfit, described on page 81,	5 25
4 x 5 Printing Outfit, described on page 82,	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 \$22.50, as follows :

No. 2 Equipment, described on page 2,	\$10 00
5 x 8 Developing Outfit, described on page 81,	6 50
5 x 8 Printing Outfit, described on page 82,	6 00

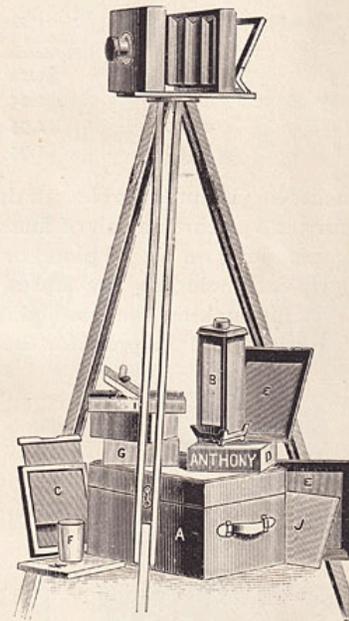
Developing and printing outfits adapted to equipments of other sizes will be found on pages 81 and 82 of this catalogue.

Catalogue for Amateurs.

Eureka School Outfit.

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

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

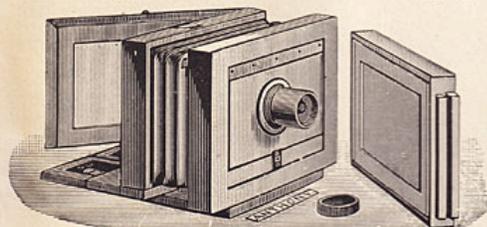


THIS EQUIPMENT is intended as a means of learning the elementary steps of photography by practical working, at an extremely low price, and, while none of the several parts of the equipment are made with elaborate finish or ornamentation, they are all practicable and good results can be obtained with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

Price complete, \$7.50

Manhattan Equipment.*

THE CAMERA which forms a part of this Equipment is of mahogany, well finished and thoroughly practicable; it is adapted to



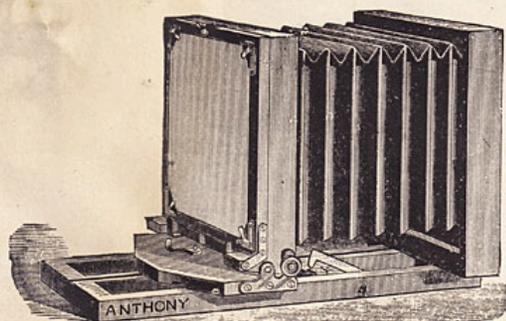
making of pictures either vertically or horizontally. The equipment comprises, beside the camera, one patent double zephyr dry plate holder, a single achromatic lens, tripod and carrying case.

With the 4 x 5 size, the triple jointed climax tripod is furnished, and with the other two sizes the improved folding tripod No. 1.

No.	Size of View.	Price.	Extra Zephyr Double Plate Holders, each.	Extra Eclipse Double Plate Holders, each.
1	4 x 5	\$9.00	\$1.20	\$2.00
1½	4½ x 6½	10.00	1.25	2.20
2	5 x 8	10.00	1.35	2.20
3	5 x 8	16.50	1.35	2.20

Manhattan Equipment No. 3 is similar to No. 2 of the same name, and has in addition to the lens for 5 x 8 pictures, a pair of fine achromatic lenses for making either stereoscopic views on a 5 x 8 plate, or two 4 x 5 views on a plate 5 x 8 inches. The price, including the lenses, tripod and carrying case, is \$16.50. The lens for making the 5 x 8 picture may be omitted from this Equipment if desired, and the price for the outfit complete with the two 4 x 5 lenses will be \$13.50.

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

*These Equipments are the same as those formerly known by numbers only, as above.

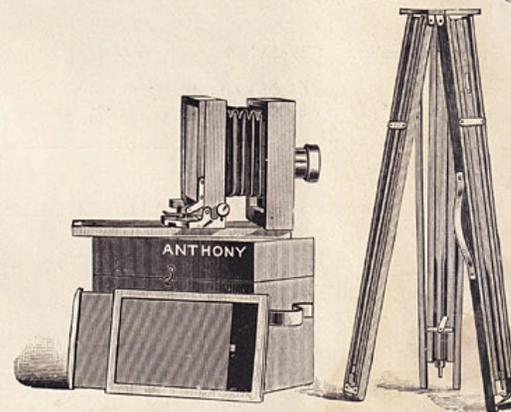
zephyr double dry plate holder, carrying case, fine single achromatic lens, and improved folding tripod.

Size of View.	Price.	Extra Double Zephyr Plate Holders, Each.	Extra Double Eclipse Plate Holders, Each.
4 x 5	\$10.00	\$1.20	\$2.00
4½ x 6½	12.00	1.25	2.20
5 x 7	12.00	1.25	2.20
5 x 8	12.00	1.35	2.20
6½ x 8½	14.00	1.60	3.30
8 x 10	20.00	1.85	4.30

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 6½ x 8½ and 8 x 10, which have our patent telescopic folding tripod, as stated below.

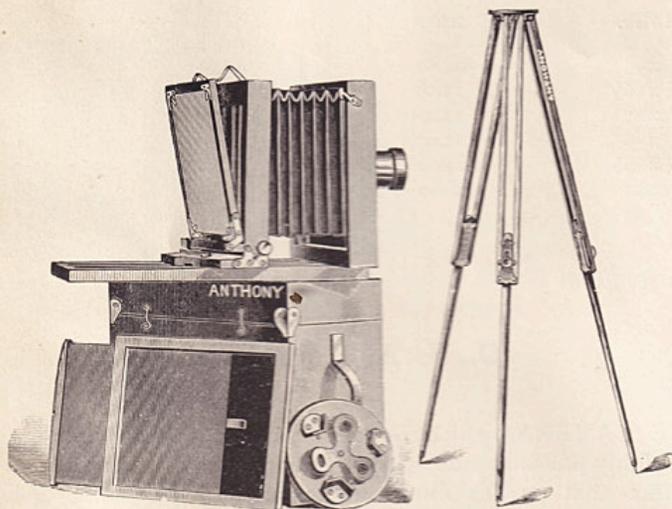


Equipment Number.	Size of View.	Price.	Extra Double Zephyr Plate Holders, each.	Extra Double Eclipse Plate Holders, each.
1 B	4 x 5	\$12.00	\$1.20	\$2.00
1½ B	4½ x 6½	13.00	1.25	2.20
1¾ B	5 x 7	14.00	1.25	2.20
*2 B	5 x 8	15.00	1.35	2.20

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

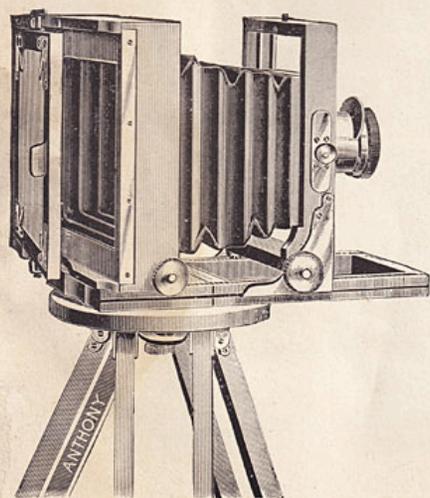
Catalogue for Amateurs.

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



Equipment Number.	Size of View.	Price.	Extra Double Zephyr Plate Holders, each.	Extra Double Eclipse Plate Holders, each.
7 B	6½ x 8½	\$20.00	\$1.60	\$3.30
8 B	8 x 10	26.00	1.85	4.30

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,

Catalogue for Amateurs.

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	\$2.00
4½ x 6½	17.00	1.25	2.20
5 x 7	18.00	1.25	2.20
5 x 8	20.00	1.35	2.20
6½ x 8½	24.00	1.60	3.30
8 x 10	31.50	1.85	4.30

Anthony's Bicycle Equipment.

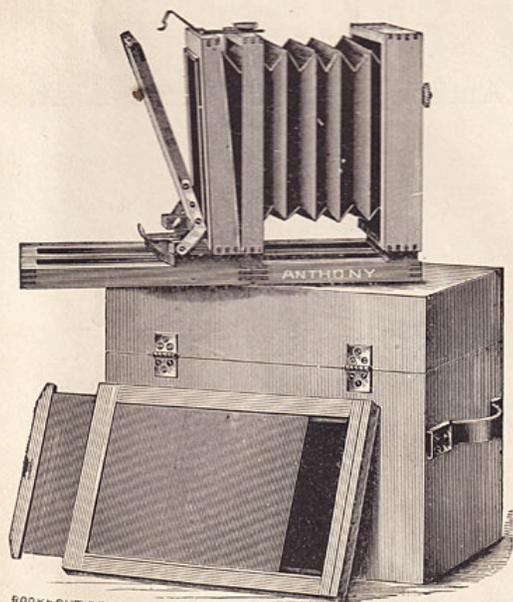


THE several parts which make up this very compact equipment are as follows: A handsome mahogany camera, suitable for views 3¼ x 4½, a fine single achromatic lens, patent double dry plate

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, \$10. Extra double dry plate holders, each, . . . \$2.00
Telescopic "y" shaped bicycle support, 1.50

The N. P. A. Camera.



EGGKHOULT, BROS. N. Y.

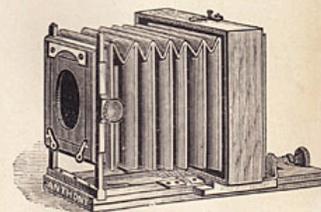
THIS is a highly polished mahogany camera with patent swing back rising front, folding bed, patent clamp hooks (to make the bed rigid), extra front and stereoscopic partition. The metal work has the draw file finish, similar to that on the finest mathematical instruments. By means of a plate on the side, 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.

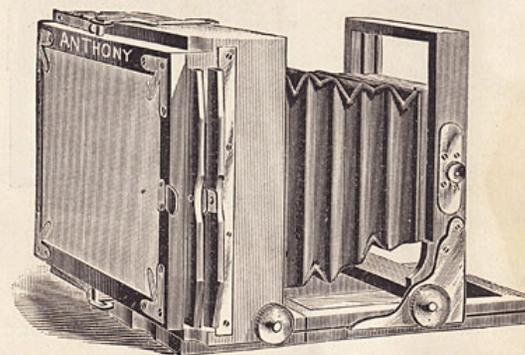
It has a sliding front, hinged ground glass, and folding bed, which is provided with a novel arrangement for fixing it in position, enabling the operator to adjust it in a few seconds. It is made of highly polished mahogany, with flexible bellows and brass mountings, making a remarkably elegant little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

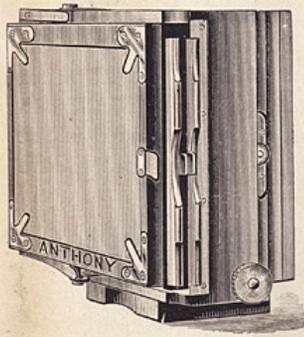
Price of camera, with one double holder, \$ 9.00
With swing back, 12.00
Price of patent improved double dry plate holders, 3¼ x 4¼ each, 2.00

The Victor Camera.



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

Catalogue for Amateurs.

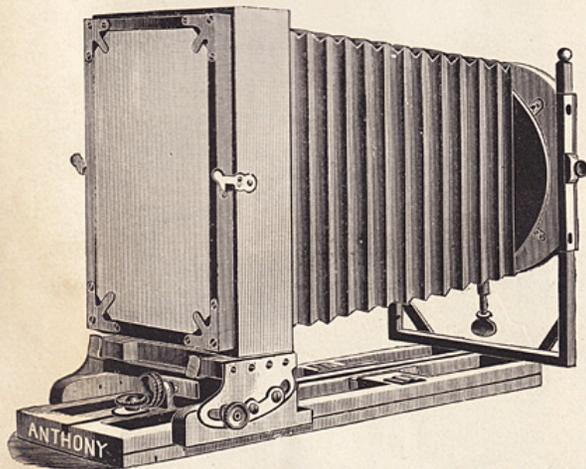


It is provided with rising front and single swing and is adapted to front focus, having the double rack and pinion movement.

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	\$2.00
4½ x 6½	11.00	1.25	2.20
5 x 7	12.00	1.25	2.20
5 x 8	13.50	1.35	2.20
6½ x 8½	16.00	1.60	3.30
8 x 10	22.50	1.85	4.30

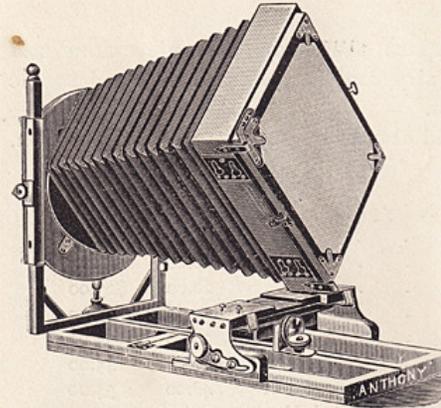
Anthony's Patent Novelette View Cameras.



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-

Catalogue for Amateurs.

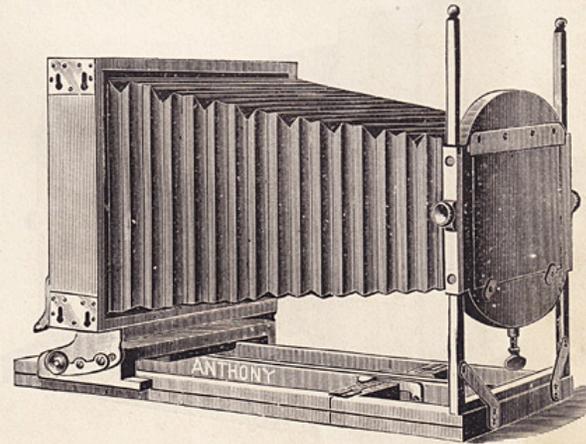
tally with equal ease, the change of position being effected very quickly. The rear part of the camera is separated from the bed by merely pushing it from left to right, the keyhole slots releasing the heads of the screws.



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 rabbit 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 rabbits when made on

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.

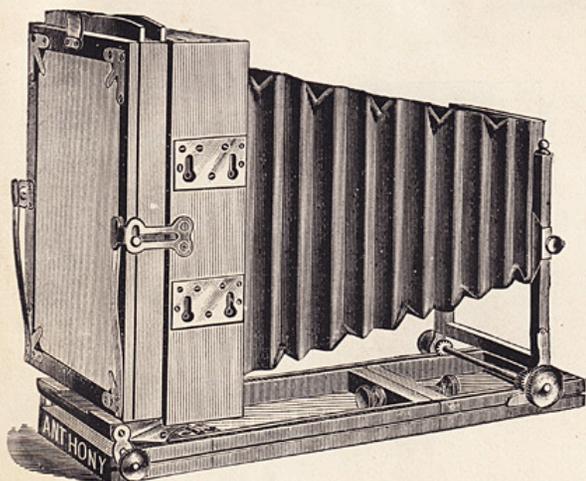
The Novelette occupies less space than any other view camera of the same capacity except our Fairy, and is packed in our telescopic brass bound Canvas Carrying Case.

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

	Without Swing.	Single Swing.	Double Swing.
4 x 5, including one Novelette double dry plate holder,	\$12.50	\$15.50	----
4½ x 6½, as above,	----	20.00	----
5 x 7 or 5 x 8, as above,	----	20.00	\$23.00
6½ x 8½, as above,	----	25.00	28.00
8 x 10, "	----	30.00	33.00
10 x 12, "	----	42.00	45.00
11 x 14, "	----	48.00	54.00

With the 4x5 size the Detective plate holders are used.

Front Focus Novelette Camera.



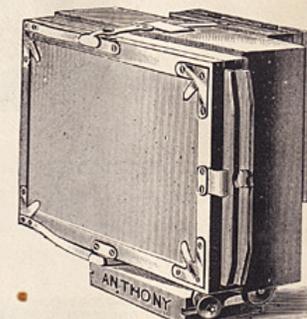
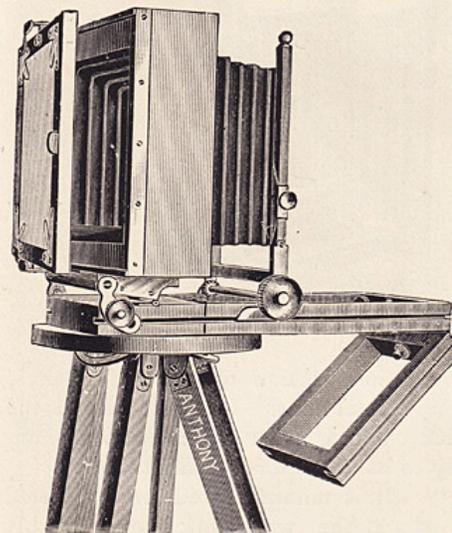
WITH the exception of the regular Novelette, Fairy and Phantom Cameras, this is the lightest and most compact reversible Camera extant. The body of the Camera is made of same shape as the holder, and is reversed more easily and quickly than any other in the market. It occupies only one-half the space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

back by rack and pinion movement for focusing, thus giving the operator access to the ground glass without interference from the bed of the Camera.

It is of best quality mahogany, highly polished, has double rack and pinion the entire length of the bed, and when a lens of short focus is

used the front section of the bed folds underneath, hooking to center section. It has rising front, single or double swing back, and our patent adjustable ground glass, which is

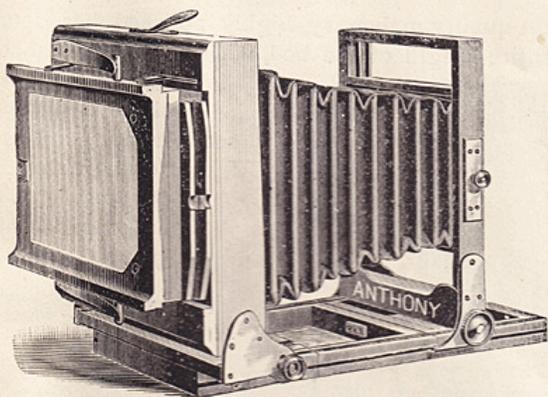


always just where it is wanted. The metal work has the straight line or draw file finish, same as used in the finest mathematical instruments. Each size admits the use of lenses of longest and shortest focus for the size plate to which the Camera is adapted. There are no loose pieces or sections, and in this respect also it differs from all other reversible Cameras of other makes, being complete in itself.

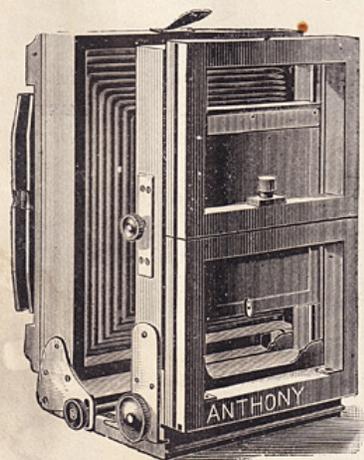
It is fitted with the Eclipse double dry plate holder, which is included in price of Camera quoted below. Also one of our telescopic brass bound Canvas Carrying Cases.

Size	Plain.	Single Swing.	Double Swing.	Extra Double Zephyr Holders, Each.	Extra Double Eclipse Holders, Each.
4 x 5	\$19.00	\$21.00	\$23.50	\$1.20	\$2.00
4½ x 6½	----	22.50	25.00	1.25	2.20
5 x 7	----	23.00	25.50	1.25	2.20
5 x 8	----	24.00	27.00	1.35	2.20
6½ x 8½	----	29.00	32.00	1.60	3.30
8 x 10	----	34.50	37.50	1.85	4.30
10 x 12	----	45.00	50.00	----	6.00
11 x 14	----	55.00	60.00	----	7.00
14 x 17	----	70.00	75.00	----	10.00

Anthony's Reversible Back Camera.



THE accompanying cuts show a new design of camera, which is destined to please the most fastidious. It combines all the advantages of other reversible back cameras, with several new and important features which add greatly to its value for all round work.



It is manufactured from selected stock, the woodwork being highly polished and the metal work having the draw file finish, the same that is used on the finest mathematical instruments, and is lacquered to prevent tarnishing.

The camera is arranged for front focus and the back is reversible, admitting of a view being made either horizontally or vertically, without changing position of the box or altering the focus, and is so made that the slides may be drawn out, not only from top or sides of the camera, but from the bottom as well, the latter method

greatly diminishing the possibility of light entering the holder.

It is provided with our patent clamps for making rigid the bed when extended, by the use of which, great firmness and rigidity are obtained by the simple pressure of two buttons. This device entirely does away with the old turn screw and consumes no time.

It has also our patent swing back with which a very wide angle can be covered, by the simplest mechanical device. It is fitted with our patent zephyr holder, one of the lightest and best in the market, and has also our patent rabbets, for exclusion of light, attached to the back of the camera,

instead of being on the plate holder, the latter being thus made thinner and lighter, a saving of the weight and bulk of eleven rabbets resulting from this improvement, where six holders are in use. The bellows are made of the finest quality of rubber.

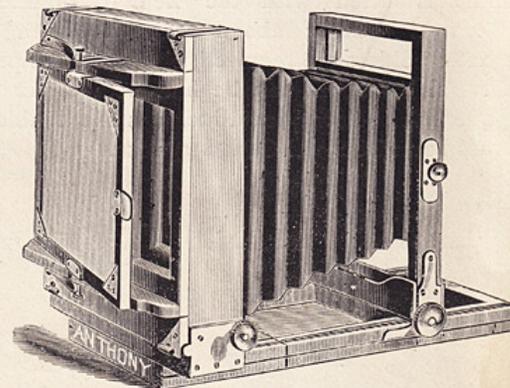
The back is fitted with the spring actuated ground glass, which is preferred by many to the ordinary hinged ground glass.

The backs of these cameras are made under the reversible back patents.

The prices herewith include one of our handsome carrying cases, and one Zephyr double dry plate holder.

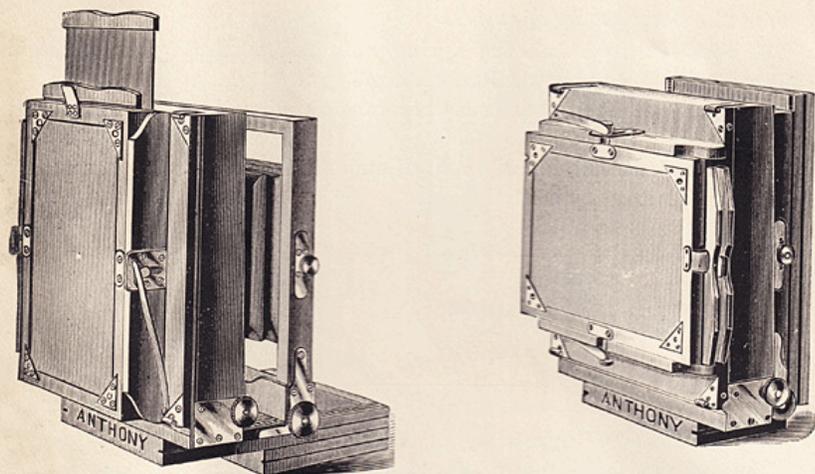
Size, 5 x 7, Single Swing....	\$28.00	Size, 6½ x 8½ Single Swing...	\$30.00
“ 5 x 8, “ “ “ “	30.00	“ 8 x 10 “ “ “ “	34.00

Anthony's "Normandie" Reversible Back Camera.



THIS is the lightest, most compact and easily adjustable, reversible back camera in the market. It is of highly polished mahogany, the metal work having the draw file finish, like that used on the finest mathematical instruments. It is provided with our patent adjustable spring actuated ground glass, always in position and never in the way. The front portion of the bed is provided with hinges, so as to drop or to fold under the camera when in use with wide angle lenses of short focus. It is made rigid by use of our patent clamp hooks, and is provided with

double rack and pinion movement and front focus. The back of this camera is completely reversible, and the slides can be drawn from *bottom*



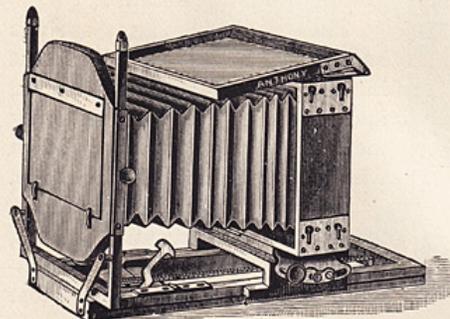
as well as from top or either side. This is an additional safeguard against the admission of light into the holder.

The Normandie is fitted with the Zephyr double dry plate holder up to 8 x 10 inclusive; above that size, with the Eclipse holder. Where extra holders are required, either the Eclipse or Zephyr may be ordered. This camera can be had with either the single or double swing. The price below quoted includes one double holder, and our telescopic brass bound Canvas Carrying Case.

Size.	Single Swing.	Double Swing.	Extra Double Zephyr Holders, Each, to 8-10.	Extra Double Eclipse Holders, Each.
4 x 5	\$20.00	\$22.50	\$1.20	\$2.00
4½ x 6½	22.50	26.00	1.25	2.20
5 x 7	25.00	28.50	1.25	2.20
5 x 8	27.50	31.00	1.35	2.20
6½ x 8½	30.00	33.75	1.60	3.30
8 x 10	35.00	39.00	1.85	4.30
10 x 12	45.00	50.00	----	6.00
11 x 14	55.00	60.00	----	7.00
14 x 17	70.00	75.00	----	10.00

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.

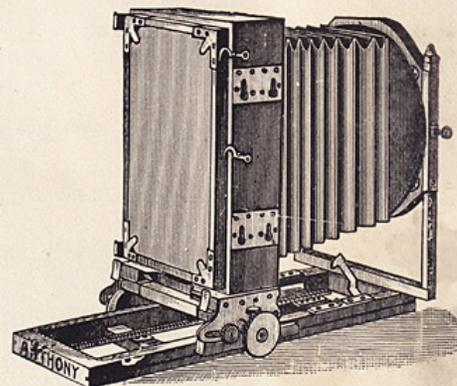
Compactness.—It occupies less space than any other view camera of the same capacity, except the Phantom and Novelette, and the plate holders are made of hardwood, with metal carriers for the plates, and fitted with all the later improvements.

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.

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

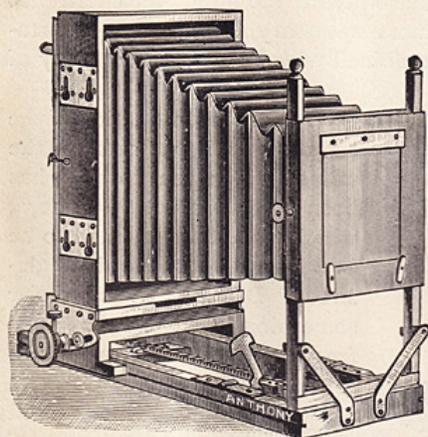
First.—The bed may be instantly rendered rigid, without the use of screws, by means of a brace of hooks that hold the two sections of the bed with great firmness.

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



With Stereo Attachments, used Vertically.

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.

4½ x 6½, without stereo attachments,	. . . . .	\$40.00
5 x 8, " " " "	. . . . .	42.00
5 x 8, with " " " "	. . . . .	42.00
6½ x 8½, " " " "	. . . . .	45.00
8 x 10, " " " "	. . . . .	50.00

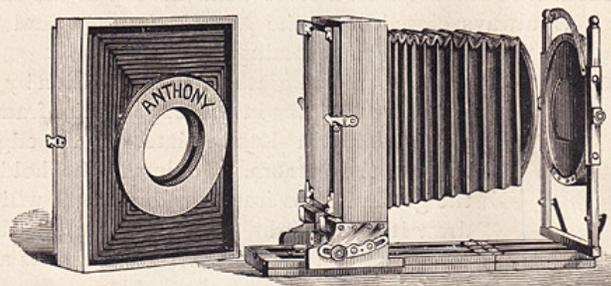
Including six Double Dry Plate Holders.

4½ x 6½, without stereo attachments,	. . . . .	\$50.00
5 x 8, " " " "	. . . . .	54.00
5 x 8, with " " " "	. . . . .	54.00
6½ x 8½, " " " "	. . . . .	62.00
8 x 10, " " " "	. . . . .	72.00

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.

Anthony's Patent Duplex Novelette Camera.

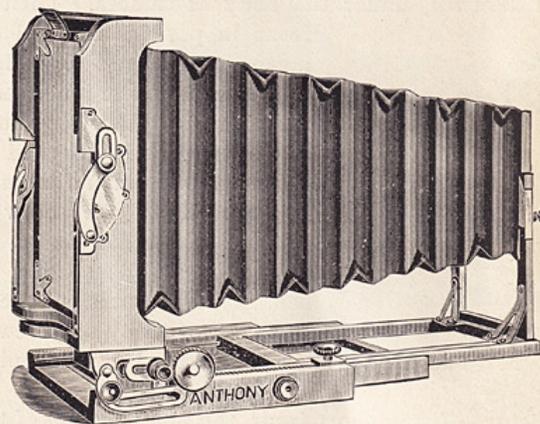
CONSISTING of an 8 x 10 bellows and ground glass, with a 5 x 8 camera, and an 11 x 14 bellows and ground glass with an 8 x 10 camera, making two cameras in one.



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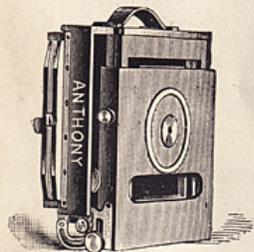
Anthony's Phantom Camera.



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.

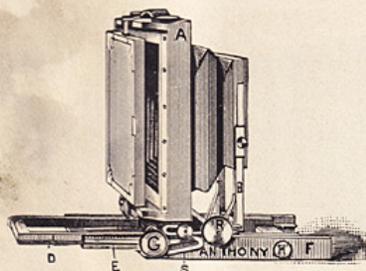
The camera is reversed in same way as our Novelette and Fairy Camera, by the keyhole slots and screw heads. The front is raised or lowered on the metal standards, but when closing the camera, the top of the front should be fastened on a level with the top of the standards. The camera is always closed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



Camera when closed.

The ground glass is held in position by springs, which act on pins in the edge of the frame, these pins running in slots in plates on the edge of the body of the camera. To insert the holder, raise the ground glass frame as high as it will go, and draw it to the right, when the pins in the edges will rest upon the shoulders in the slots and keep it in position. Insert the holder as far as it will go, and either push the ground glass frame at same time, or afterwards, releasing the pins in its edge from the shoulders, when the springs will act upon it, keeping the holder firmly in position. To withdraw the holder, raise it slightly to allow it to pass the metal light protecting edge, and it is easily removed. If raised high enough, it will catch the ground glass upon the shoulders, and hold it there ready to insert another holder. Where two or more views of the same object are desired, this will be found of great advantage. This construction never necessitates removal of the ground glass, nor is the latter ever in the way.

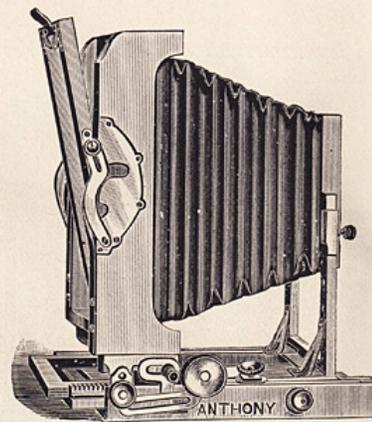
To open, and assemble it for operating, unfasten the hook that holds the bed to the top of the camera under the leather handle, and bring the bed at right angles with the body A. Then fasten set screw S (the smaller one of the two), under the body of camera. Then adjust the



front in position on end of bed, by means of the two keyhole slots and screw heads. The inner section of the bed D is then placed to about where it is to be used, and fastened in position by set-screw. The adjustment of focus is obtained by the screw R, which works the rack and pinion, moving the second or middle section of camera bed, E. When this is done, the bed is rigidly secured by set-screw H in outer section of bed, F. The swing back is operated by loosening the set-screw G.

For using lenses of very short focus, the inner section of the bed D is run to the rear as far as possible, and the middle section of the bed, E, racked to the rear, when it will admit of use of lenses of shorter foci,

without the least danger or possibility of the bed being brought into the view.



Camera arranged for short focus.

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

Size.	Longest Focus.	Price.
4½ x 6½	16 inches	\$28.00
5 x 7	18 "	32.00
5 x 8	18 "	34.00
6½ x 8½	20 "	38.00
8 x 10	23 "	40.00

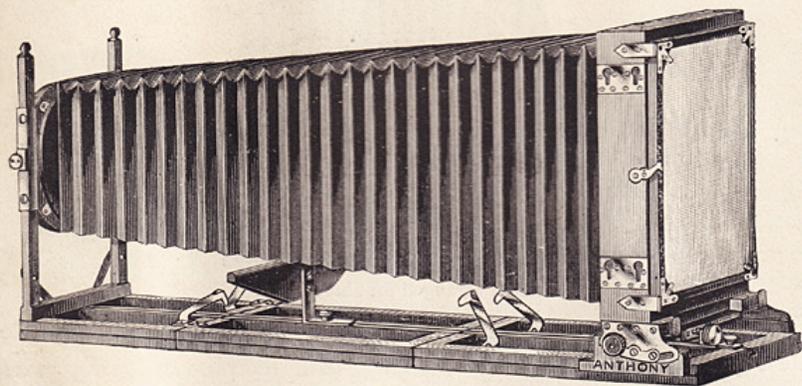
Anthony's Telescopic Brass Bound Carrying Cases.



THESE carrying cases are, as indicated by the cut, extremely neat and tasteful in appearance, and are made of the best material and in the most thorough manner. We now supply these cases with all our Novelette, Phantom and Reversible Back Cameras, without extra charge.

Anthony's Long Bellows Novelette Camera,

For View, Portrait and Copying Work.

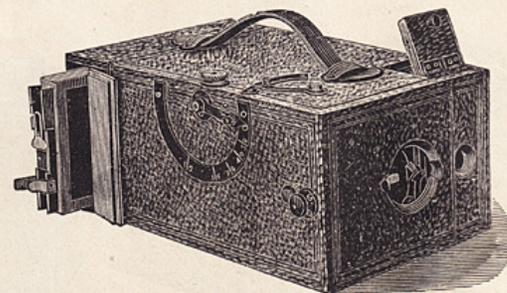


THIS instrument is a most useful camera for view and portrait photography and enlargements combined. It consists of a regular 8 x 10 Novelette Camera, made however with an extra long bellows and arranged with an extension to the bed which gives it a focal length of 32½ inches. As shown in the cut, the 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.

Schmid's Patent Detective Camera.

(PATENTED JAN. 2, 1883.)



The Leather Covered Detective Camera.

THIS CAMERA is focused for objects at various measured distances, and the points are marked upon the index shown in the cut at the side of the box, the pointer of the index serving to act upon gear work to bring the camera in adjustment for any given distance.

After this the ground glass may be entirely dispensed with, as it is then only necessary to estimate the distance of the object to be photographed and move the focusing lever to the mark corresponding to that distance, when the camera will obviously be in focus.

The small lens in the upper left hand corner serves to throw the picture on a piece of ground glass on the top of the camera, thus showing the position of the image on the plate. When the picture appears in proper position on this ground glass, it is only necessary to touch the button on the right of the camera and the exposure of the plate is instantly made, its development being afterward accomplished in the ordinary manner.

The slide is then replaced in the plate holder, which, being reversed, the shutter reset, and the other slide drawn out, everything is ready for the next shot.

Prices, complete, including camera, lens, shutter and one double dry plate holder, are as follows:

3½ x 4½,	\$55.00	5 x 8,	\$117.50
4 x 5,	60.00	6½ x 8½,	125.00
4½ x 6½,	90.00	8 x 10,	160.00
3½ x 4½ and 4 x 5, covered with leather,			\$2.50 extra.

Fitted with Dallmeyer Rapid Rectilinear Lens, prices are:

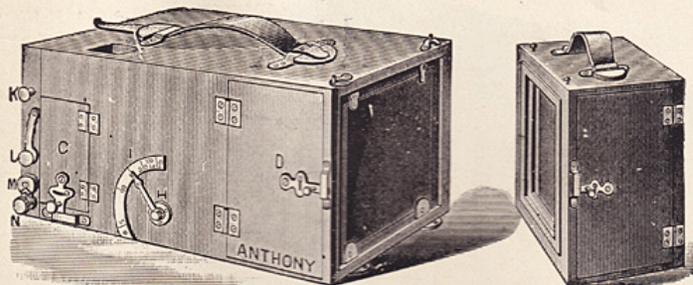
3½ x 4½,	\$77.00	5 x 8,	\$140.00
4 x 5,	82.00	6½ x 8½,	147.50
4½ x 6½,	105.00	8 x 10,	192.00

Sizes above 4 x 5 are made to order only.

Additional double dry plate holders, for 3½ x 4½ plates, each,	\$1.80
" " " " " 4 x 5 " "	1.80

Anthony's Climax Detective Camera.

Patented Nov. 11, 1884. Sep. 14, 1886. March 22, 1887. March 29, 1887.



THE above cut shows one of our latest Detective Cameras, which is kept in stock in one size only, 4 x 5, larger sizes being made to order. It is so arranged that its working parts are all on the left side of the box, and is so constructed that the shutter may be set, released, and its speed regulated, from the outside, without having to open the box at all.

Lenses of varying focal length may be used and the diaphragms changed without removing the shutter. A removable rear compartment is also made for use with the camera, which is fitted to contain five double holders and which is adapted to take the place of the focusing cloth when the plate holders and rear partitions have been removed, an advantage not possessed by any other style of detective camera. This Camera may be carried and operated in our patent satchel, thus giving it the appearance of an ordinary hand bag.

	Instantaneous Landscape Lens.	R. R. Hemis- pherical Lens.	Dallmeyer R. R. Lens
Climax Detective Mahogany Camera, with 4 x 5 Dry			
Plate Holder, complete,	A \$25.00	B \$41.00	C \$63.00
Or, if covered with Black Grained Leather and with			
Metal Work Oxidized Black,	D 29.00	E 45.00	F 67.00
With Removable Rear Compartment of Mahogany,			
containing 5 extra Double Dry Plate Holders,	G 40.00	H 56.00	I 78.00
Or, covered with Leather as above,	K 45.00	L 61.00	M 83.00

Satchel Climax Detective Cameras will cost, in addition to above :

In Genuine Alligator,	Extra, \$15.00
In Imitation Alligator, Grained Leather,	" 10.00

Anthony's Patent Satchel Detective Camera.

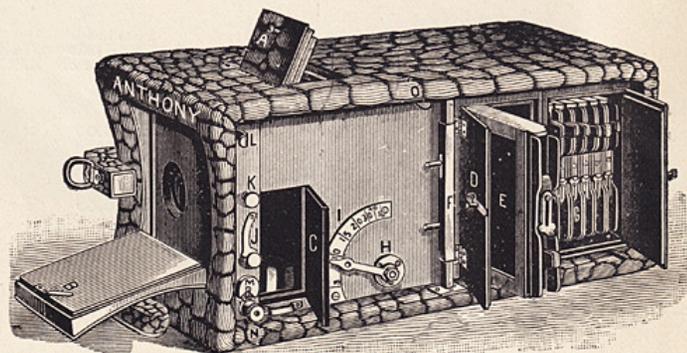
IN outward appearance, and to the ordinary observer, this latest modification of the Detective Camera looks exactly like an alligator hand-satchel that is carried by a shoulder-strap at the side of the pedestrian. Upon closer observation, one sees that it consists of an artfully-



concealed detective camera, in which all the various movements to secure a picture are situated upon the under side. For use, the camera is held so that the base of the satchel rests against the body of the operator. By means of a brass pull at the side the shutter is set. A plate in the regular holder is placed in position at the back of the camera, and the slide is drawn ready for exposure. The release of a short catch, exposes the front of the shutter ready for action,

and by raising a small leather-covered lid the little camera obscura, called the finder, on the (now) upper side of the camera, shows the position that the object will occupy on the plate. The slightest touch upon a small brass button releases the shutter, and the exposure is made. Replacing the slide in the plate holder, reversing the holder, and setting the shutter again, leaves the apparatus in readiness for another shot, when the plate holder slide is withdrawn as before.

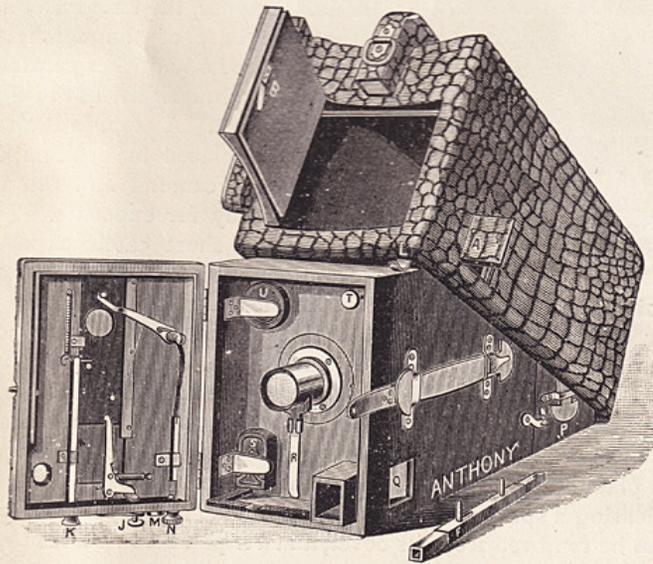
By releasing a spring bolt on the under side of the case, the camera proper can be removed from its cover, and a tripod screw serves to attach the camera to a tripod for ordinary use.



This last form of the detective camera allows the operator to carry with him twelve plates in the interior of the apparatus, and so carefully

packed away that no light can strike them. It is also furnished with an ingenious attachment by which the speed of the shutter can be regulated to suit the speed of the object, moving with greater or less velocity; while, by simply releasing a catch, time exposures can be made at the will of the operator. In fact the whole affair is an important achievement in ingenious, compact and light photographic apparatus.

These satchel detective cameras have been frequently operated with success where the use of others less deceptive has been prevented.



Camera showing the detachment of Satchel.

For Plate 4 x 5 inches.	Instantaneous Landscape Lens.	Fitted with R. R. Hemispherical Lens.	Dallmeyer R. R. Lens.
In Imitation Alligator or Grained Leather, with one Patent Double Dry Plate Holder,	N \$35.00	O \$51.00	P \$73.00
In Genuine Alligator, with one Patent Double Dry Plate Holder,	R 40.00	S 56.00	T 78.00
In Imitation Alligator or Grained Leather, with Removable Rear Compartment containing five extra Patent Double Dry Plate Holders (six in all),	U 50.00	V 66.00	W 88.00
In Genuine Alligator, with Removable Rear Compartment containing five extra Patent Double Dry Plate Holders (six in all),	X 55.00	Y 71.00	Z 93.00

Larger sizes made to order.

Lilliput Camera.



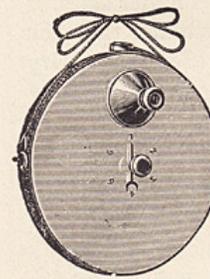
THIS is the handiest, lightest and most easily handled detective camera ever put upon the market. In outward appearance it resembles a small hand bag, being made of fine sole leather and fitted with a sling strap for convenience in carrying. It occupies a space only 4 x 4 x 6 inches, and notwithstanding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

The lens covers an angle of about 60°, and is adjusted to universal focus, being therefore always in readiness for use. The camera is worked without taking from the case, and all mechanism is entirely concealed from view. The size of picture obtainable is 2½ inches square, and they may be either time or instantaneous exposures at will of the operator, the shutter having an adjustment for either the one or the other. Price, including ruby lamp and plates for 108 exposures, \$25.00.



The Concealed Vest Camera.

(Patented.)



THIS MINUTE CAMERA is made to be suspended from the neck of the operator and worn under both coat and vest with the lens protruding through the buttonhole of the vest.

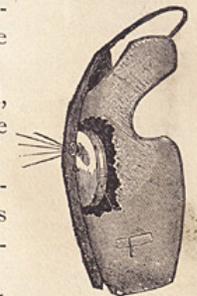
It is made of metal, nickel plated, and is provided with circular plate for six exposures without changing.

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

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

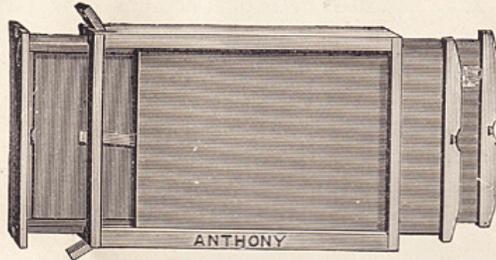
Nickel or Oxidized Camera, No. 1 (size of picture, 1¼ in.), . . . each, \$10.00
 Magic Lantern Size Camera, No. 2 (size of picture, 2½ in.), . . . each, 15.00

Every camera guaranteed perfect.



Vest, showing Camera in position.

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



THESE are the most compact plate holders in the market, the rabbet commonly found on the plate holder being dispensed with and placed on the camera instead, thus saving the additional weight of twelve such rabbets 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 $5\frac{1}{4}$ x $7\frac{1}{2}$	$4\frac{1}{2}$ x $6\frac{1}{2}$	each, \$2.40
$\frac{3}{4}$ x 6 x 8	5 x 7	" 2.20
$\frac{3}{4}$ x 6 x 9	5 x 8	" 2.20
$\frac{3}{4}$ x $7\frac{1}{2}$ x 10	$6\frac{1}{2}$ x $8\frac{1}{2}$	" 3.30
$\frac{3}{4}$ x 9 x $11\frac{1}{2}$	8 x 10	" 4.30
1 x $11\frac{1}{2}$ x $13\frac{1}{2}$	10 x 12	" 6.00
1 x $12\frac{1}{2}$ x $15\frac{1}{2}$	11 x 14	" 7.00
$1\frac{1}{8}$ x 16 x 19	14 x 17	" 10.00

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

Fairy Plate Holders.

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

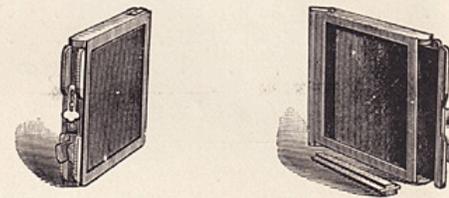
$4\frac{1}{4}$ x $6\frac{1}{2}$	each,	\$2.40
5 x 8	"	2.50
$6\frac{1}{2}$ x $8\frac{1}{2}$	"	3.70
8 x 10	"	4.80

Lilliput 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,	\$1.10
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Anthony's Patent Detective Double Dry Plate Holders.

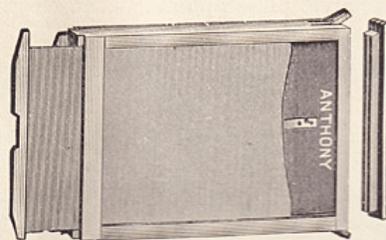


THESE are unquestionably the lightest and most convenient holders of their size in the market. The plates are placed in and removed from the holder at one of the ends, which is opened by pressing aside the metal band that secures the wooden cover. (See right hand cut.) These holders have hard rubber 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:

$3\frac{1}{2}$ x $4\frac{1}{4}$	each,	\$1.80		4 x 5,	each,	\$1.80
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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
4½ x 6½,	1.25	6½ x 8½,	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.

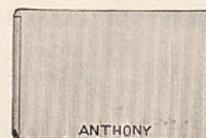
4½ x 6½, each,	\$1.80	5 x 8, each,	\$2.00
5 x 7, "	1.90	6½ x 8½, "	2.60
8 x 10, each,	\$3.00		

Film Holders.

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

4½ x 6½, each,	\$2.20
5 x 8, "	2.20
6½ x 8½, "	3.30
8 x 10, "	4.30
10 x 12, "	6.00
11 x 14, "	7.00

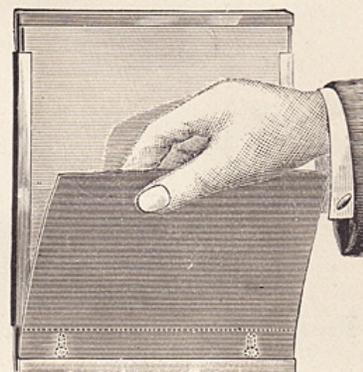
Anthony's Metal Film Kits.



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

2½ x 2½, each,	\$0.09	5 x 7, each,	\$0.21
3½ x 4½, " . . . . .	.10	5 x 8, " . . . . .	.25
4 x 5, " . . . . .	.12	6½ x 8½, " . . . . .	.30
4½ x 6½, " . . . . .	.18	8 x 10, " . . . . .	.36

Barnett's Film Carriers.



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

Sizes.	Price per Doz.
3½ x 4½,	\$1.30
4 x 5,	1.40
4½ x 5½,	1.40
4½ x 6½,	1.60
5 x 7,	2.00
5 x 8,	2.00
6½ x 8½,	2.25
8 x 10,	2.50

Other sizes made to order at special prices.

Barnett's Patent Universal Film Carrier.

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

DIRECTIONS FOR FILLING THE UNIVERSAL CARRIER.

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

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

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

Sizes.	Price per Doz.
3½ x 4½,	\$2.00
4 x 5,	2.00
4½ x 5½,	2.25
4½ x 6½,	2.50
5 x 7,	2.75
5 x 8,	2.75
6½ x 8½,	3.25
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.

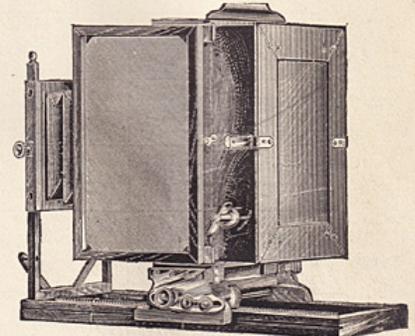
To fit Holders.	Each.	To fit Holders.	Each.
4 x 5—3½ x 4½,	\$0.25	8 x 10—4½ x 6½, 5 x 7, 5 x 8, 6½ x 8½,	\$0.35
5 x 8—3½ x 4½, 4 x 5, 4½ x 6½,	30	10 x 12—8 x 10,	55
6½ x 8½—4 x 5, 5 x 8, 4½ x 6½, 5 x 7,	30	11 x 14—8 x 10, 10 x 12,	60
		14 x 17—11 x 14,	75

Eastman's Roll Holders.

FIRST MODEL, with audible indicator and detachable key.

4 x 5,	\$12.00
*4½ x 7½,	16.00
5 x 8,	16.00
6½ x 8½,	20.00
8 x 10,	24.00

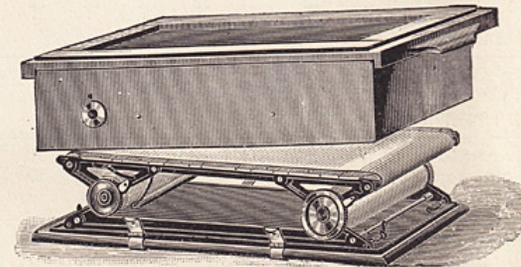
Holdings of other sizes to order.
Fitting holder to cameras extra.



Showing Roll Holder fitted to Fairy Camera.

Roll Holders.

NEW MODEL, with both audible and visible indicators and non-detachable key.



3½ x 4½,	\$12.00	5 x 8,	\$20.00
4 x 5,	15.00	6½ x 8½,	24.00
4½ x 7½,	20.00	8 x 10,	30.00

Roll Holders. (Extra Parts.)

Extra Keys, each, 35 cts. | Extra Reels, each, 75 cts.

All parts of roll holders are made interchangeable, and any part can be furnished on application.

* This size is made for 5 x 8 Fairy and Novelette cameras, which are smaller than any other regular 5 x 8 camera.

Carbutt's Flexible Negative Films.

For Portraits, Landscapes, Interiors and Instantaneous Views.

NO extra processes are necessary. But Films are exposed, developed, fixed, washed, dried, and printed from, the same as Dry Plates; and being but $\frac{1}{100}$ of an inch in thickness, can be printed from either side.

These Flexible Films are not made on sheet gelatine, or of paper made translucent, but on a transparent material perfectly impervious to water, unbreakable, and with a fine matt surface that renders them especially desirable for Interior Views and Landscapes, as halation is thereby greatly reduced.

They can be used in regular plate-holders for Studio or Landscape work, or in the special film-holders now supplied by the several manufacturers of photographic apparatus.

Price per Dozen. Coated with our "Special," "Eclipse" and "B" Landscape Emulsions.

3 $\frac{1}{4}$ x 4 $\frac{1}{4}$	\$0.65	5 x 7	\$1.65
4 x 5 . . . . .	.95	5 $\frac{1}{2}$ x 7	1.75
4 $\frac{1}{4}$ x 5 $\frac{1}{4}$	1.12	5 x 8	1.80
4 $\frac{1}{4}$ x 6 $\frac{1}{2}$	1.30	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$	2.50
4 $\frac{3}{4}$ x 6 $\frac{1}{2}$	1.40	8 x 10	3.60

They can be sent by mail without fear of breakage. When ordering from your dealer, add 5 per cent. to cost of films to cover postage.

Anthony's Negative Paper.

OUR PATENT ROLL, for using in any roll-holder. In lengths of 24 exposures.

4 in., per roll,	\$1.00	5 in., per roll, for $\frac{5}{8}$ and $\frac{3}{4}$,	\$2.00
4 $\frac{1}{2}$ " "	1.80	6 $\frac{1}{2}$ " "	2.70
8 in., per roll,	\$4.00		

Negative Paper. (Cut Sheets.)

3 $\frac{1}{4}$ x 4 $\frac{1}{4}$, two dozen in box,	\$0.65	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$, two dozen in box,	\$2.45
4 x 5, " " . . . . .	.90	8 x 10, " "	3.50
5 x 7, " "	1.55	10 x 12, one dozen "	2.60
5 x 8, " "	1.75	11 x 14, " "	3.50

Packed flat. Other sizes in proportion.

Vergara Films.

(Light, Tough, Flexible.)

NO stripping, can be printed from either side. Developed same as glass. Can be used in the ordinary carriers. Put up in packages of one dozen each.

3 $\frac{1}{4}$ x 4 $\frac{1}{4}$, per package,	\$0.90	5 x 8, per package,	\$2.70
4 x 5, " "	1.40	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$, " "	3.80
4 $\frac{3}{4}$ x 6 $\frac{1}{2}$, " "	2.00	8 x 10, " "	5.00

Anthony's patent film holders for using Vergara Films or Negative Paper in the ordinary dry plate holder.

3 $\frac{1}{4}$ x 4 $\frac{1}{4}$, each,	\$0.20	5 x 7, each,	\$0.30
4 x 5, " " . . . . .	.25	5 x 8, " " . . . . .	.30
4 $\frac{1}{4}$ x 6 $\frac{1}{2}$, " " . . . . .	.30	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$, " " . . . . .	.35
8 x 10, each,	\$0.40		

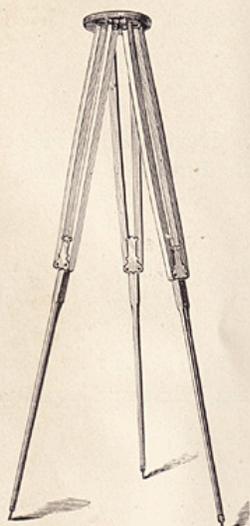
Anthony's New Transparency Dry Plates.

FOR LANTERN SLIDE, window transparencies, micro-enlargements, contact printing, duplicating negatives, and line work for photo-engraving. They work in half the time of the old collodion plates and require no intensifying. Send for circular and read what is said of them. Price per dozen :

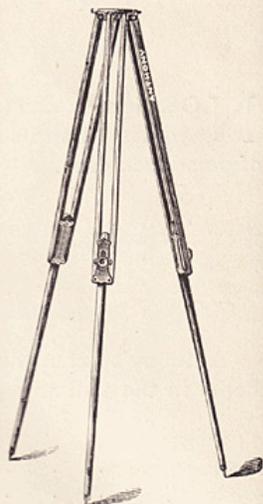
3 $\frac{1}{4}$ x 4, thin crystal,	\$0.55	6 $\frac{1}{2}$ x 8 $\frac{1}{2}$,	\$1.65
3 $\frac{1}{4}$ x 4 $\frac{1}{4}$, . . . . .	.45	8 x 10,	2.40
4 x 5, . . . . .	.65	10 x 12,	3.80
4 $\frac{1}{4}$ x 5 $\frac{1}{2}$, . . . . .	.75	11 x 14,	5.00
4 $\frac{1}{4}$ x 6 $\frac{1}{2}$, . . . . .	.90	14 x 17,	9.00
4 $\frac{3}{4}$ x 6 $\frac{1}{2}$,	1.00	16 x 20,	12.50
5 x 7,	1.10	17 x 20,	13.00
5 $\frac{1}{2}$ x 7,	1.25	18 x 22,	15.50
5 x 8,	1.25	20 x 24,	18.50

Jointed Tripods.

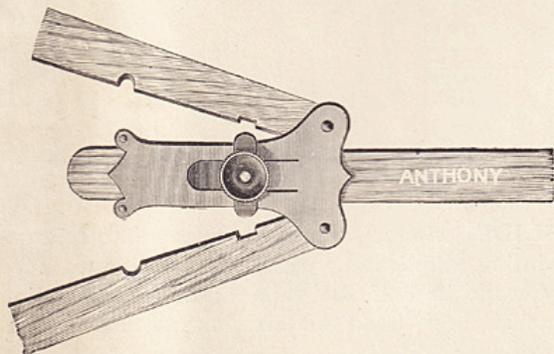
- No. 1, Anthony's Improved Folding Tripod, 6-in. circular top, \$2.25.
 - No. 2, Anthony's Improved Folding Tripod, 8-in. circular top, \$2.25.
 - No. 3, Jointed Tripod, folding iron top, adapted to large cameras, \$4.50.
 - No. 4, Telescopic Legs, adapted to Stereoscopic and 8 x 10 sizes, \$3.50
 - 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.



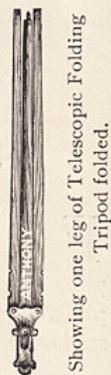
Anthony's Improved Nos. 1 and 2.



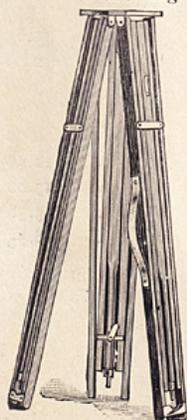
Anthony's Patent Telescopic Folding, Nos. 4 and 5.



Showing Telescopic Folding Joint of Nos. 4 and 5.



Showing one leg of Telescopic Folding Tripod folded.



The Climax Tripod.

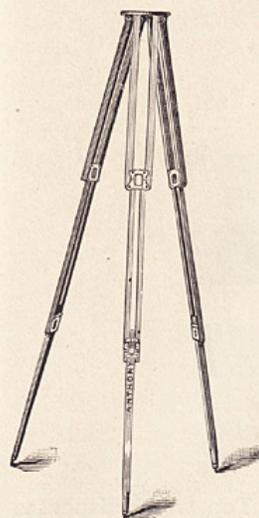
AS shown by the cut, this tripod folds in three joints, making it much more convenient to carry than the ordinary two jointed folding tripod. It resembles the Triplex Tripod in length, but is not telescopic. The legs may be left permanently in the top when folded, and the other ends being fastened by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

Price, \$3.50

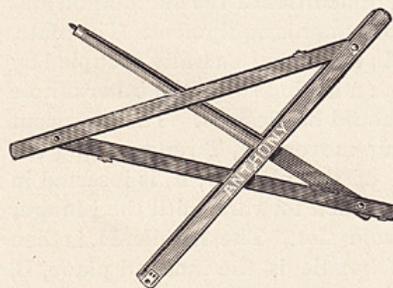
Anthony's Patent Triplex Tripod.

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.



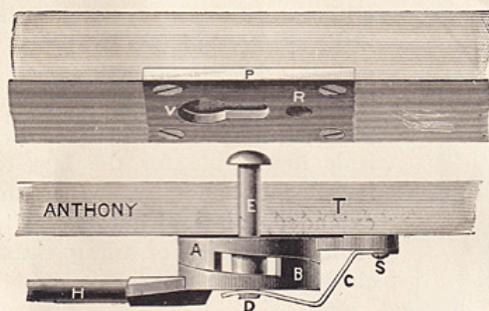
Showing Fairy Tripod set up ready for use.

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

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. The plate, P, is fastened in the bed of the camera, in the place generally occupied by the screw plate. In it are two holes, one a keyhole slot, the other a hole threaded for tripod screw in case it should be desired. The lower cut shows the construction of the clamping movement, T representing the wooden top of the tripod. The head of the plunger, E, is inserted in the keyhole slot at V, and the camera pushed forward until the plunger has reached the further end of the keyhole slot. The handle, H, is then pushed to the right. Attached to this handle is the inclined plane, B, into which the end of the plunger, E, is screwed. Turning the handle moves the inclined planes, which act like wedges, drawing the head of the plunger against the plate, P, holding the camera firmly in position. Should it be found necessary to lengthen or shorten the plunger, loosen the screw, S (which holds the entire attachment to the tripod), until the spring, C, can be slipped over and off from the plunger at D. To shorten the plunger unscrew it one or two turns, or more if necessary, replace the spring and set the screw, S, firmly in place. When firmly fixed to the tripod top, the camera cannot be moved from its position without moving the handle, H. The thickness of the plate, P, gradually decreases as it approaches the end of the narrow slot, giving positive security against the slipping of the camera when properly used.

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.

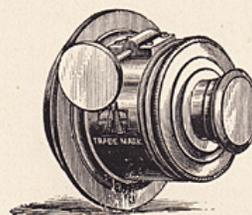
Anthony's Single Combination Lenses.



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. The $6\frac{1}{2} \times 8\frac{1}{2}$ and 8×10 sizes have changeable diaphragms, so that the time of exposure may be varied to suit the subject.

No. 0, for $3\frac{1}{4} \times 4\frac{1}{4}$ plates,	. \$3.50	No. 2, for $6\frac{1}{2} \times 8\frac{1}{2}$ plates,	. \$4.50
No. 1, for 4×5 plates,	. 3.50	No. 3, for 8×10 plates,	. 7.00

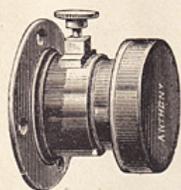
E. A. View Lenses.



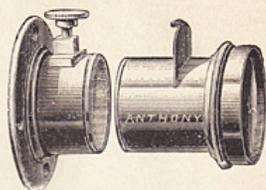
THESE are single combination lenses, used for landscape work only, but cover the plate very sharply. They have diaphragms in the front of the tube, and rack and pinion movement.

1-9 size, stereoscopic,	$6\frac{1}{2}$ inch focus, per pair,	. . . . .	\$9.60
1-6 " " " "	9 " " " "	. . . . .	10.00
1-4 " " for 5×8 view,	10 " " each	. . . . .	6.40
1-3 " " 7×9 " "	12 " " " "	. . . . .	7.60
1-2 " " 10×12 " "	15 " " " "	. . . . .	9.60
4-4 " " 14×17 " "	20 " " " "	. . . . .	19.20

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,	\$15.00
“ No. 2, for 5 x 8 “	25.00
“ No. 3, for 8 x 10 “	35.00

The No. 1 is supplied in rigid mounting.

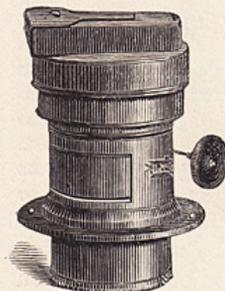
E. A. Wide Angle Lens.



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,	\$17.50	No. 4, 10 x 12,	\$25.00
No. 3, 7 x 9,	20.00	No. 5, 14 x 17,	35.00

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.

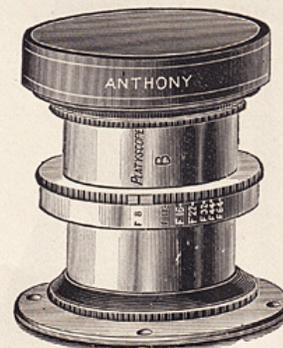
Back Focus.	Inches.	Each.
1-4 plain,	4½	\$7.50
1-4 central stop,	4½	8.75
1-3 “ “	5	14.50
1-2 “ “	6	17.50
4-4 “ “	10	35.50

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,	\$19.20
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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

Catalogue for Amateurs.

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.
A.	4 x 5 in.	5 x 7 in.	8½ in.	1 in.	6¾ in.	\$22.00
B.	5 x 7 "	6 x 8 "	10¾ "	1¼ "	8½ "	30.00
C.	6 x 8 "	8 x 10 "	14 "	1¾ "	11½ "	35.00
D.	7 x 9 "	10 x 12 "	15 "	1¾ "	12½ "	42.00
E.	8 x 10 "	11 x 14 "	19 "	2½ "	15½ "	50.00
F.	10 x 12 "	14 x 17 "	24 "	2¾ "	19½ "	68.00
G.	12 x 15 "	17 x 20 "	32 "	3¼ "	24 "	100.00

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	6½ x 8½ inches	8 inches	\$22.00
BB.	6½ x 8½ "	8 x 10 "	13¼ "	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,

Catalogue for Amateurs.

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 4¼	1 inch.	6 inches.	\$31.50
2	5 x 8	5 x 6½	1¾ "	9 "	43.00
3	6½ x 8½	5 x 8	1½ "	11 "	48.50
4	8 x 10	6½ x 8½	1¾ "	14 "	62.50
5	10 x 12	8 x 10	2 "	16 "	78.00
6	12 x 15	11 x 14	2½ "	20 "	107.50
7	16 x 18	14 x 17	3 "	24 "	137.50
8	18 x 22	16 x 18	3½ "	30 "	187.50
9	22 x 25	18 x 22	4 "	34 "	225.00

Wide Angle Aristoscope Lenses.



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

No.	Size of View.	Diameter.	Back Focus.	Equiv. Focus.	Price.
1	5 x 6½	¾ in.	3½ in.	4 in.	\$33.00
2	6½ x 8½	1¼ "	4¾ "	5½ "	40.00
3	10 x 12	1½ "	6¼ "	7 "	57.00
4	12 x 15	2 "	7½ "	8½ "	77.50
5	16 x 18	2½ "	11 "	13 "	103.50
6	20 x 22	3 "	14 "	15½ "	148.00
7	21 x 25	3¾ "	17 "	19 "	222.00

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.



* 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 Combination.	Back Focus.	Equivalent Focus.	Price.	Remarks.
1AA	4½ x 7¼	⅞	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 "	5½ "	45.00	
1	10 x 12	1½	6¼ "	7 "	61.00	
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 Rapid Rectilinear Lenses.

(Patent.)

THE RAPID RECTILINEAR LENS is emphatically "The Lens" for all kinds of outdoor photography. It works at an intensity of $\frac{1}{8}$, 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.
3½ x 4½ in.	3¼ x 3¼ in.	1 in.	3½ in.	4 in.	\$31.00
4 x 5 "	3½ x 4½ "	1 ¼ "	5½ "	6 "	37.00
5 x 6 "	4 x 5 "	1 ½ "	7½ "	8 ½ "	45.00
6½ x 8½ "	5 x 6 "	1 ¾ "	10½ "	11 "	57.50
8 x 10 "	6½ x 8½ "	2 "	12½ "	13 "	74.00
10 x 12 "	8 x 10 "	2 ¼ "	15 "	16 "	90.00
12 x 15 "	10 x 12 "	2 ½ "	18 "	19½ "	123.00
16 x 18 "	12 x 15 "	3 "	23 "	24¾ "	164.00
20 x 22 "	16 x 18 "	3 ¾ "	28 "	30½ "	222.00
21 x 25 "	20 x 22 "	4 "	31 "	33½ "	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 $\frac{1}{13}$ (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	4½ x 6½	1.3	9	\$37.00
2	6½ x 8½	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 $\frac{1}{18}$, 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.

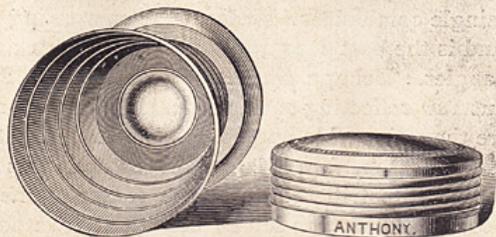
No.	Size of Plate.	Diameter.	Equivalent Focus.	Price.	Remarks.
1A	4 x 5	1 ¾	5½	\$26.50	No. 1A and No. 1 are made to screw into the same flange as
1	4½ x 7½	1 ⅝	7	31.00	No. 1 Triple Achromatic Lens.
2	6½ x 8½	1 ¾	8½	37.00	Nos. 2 and 3 screw into No. 2 Triple Achromatic flange.
3	8 x 10	2 ⅛	10	45.00	
4	10 x 12	2 ½	12	57.50	
5	12 x 15	2 ⅝	15	70.00	
6	16 x 18	3	18	86.00	
7	20 x 22	3 ⅝	22	115.00	
8	21 x 25	4 ¼	25	155.00	

Dallmeyer's New Rectilinear Landscape Lens.

THIS LENS works at an intensity, with the first stop, of $\frac{1}{14}$, and is therefore somewhat slower in action than the rapid landscape, requiring an exposure of about $\frac{1}{3}$ 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.	1 ½ in.	8½ in.	\$39.00
2	6½ x 8½ "	1 ¾ "	11½ "	49.50
3	8 x 10 "	2 "	13½ "	65.50
4	10 x 12 "	2 ¼ "	16½ "	84.00
5	12 x 15 "	2 ⅝ "	20 "	102.50
6	16 x 18 "	3 "	25 "	131.00
7	20 x 22 "	3 ½ "	32 "	172.00

Anthony's Combination Focusing Glass.



HANDY and compact; serving the double purpose of a convenient drinking cup and a perfect focusing glass. A telescopic metallic cup, with a fine lens adjusted to the bottom, and packed in a neat metal case with screw cover. Every tourist photographer should have one.

Price, \$0.75

The New Duplex Focusing Glass.



CHEAP and good. Price, \$1.25.

E. A. Compound Focusing Glass.

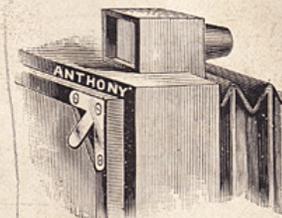


FOR fine work the E. A. Compound Focusing Glass is the best. It has a double compound lens. The price is \$2.50.

Anthony's Universal Finder.



Showing method of fastening Finder to Camera.



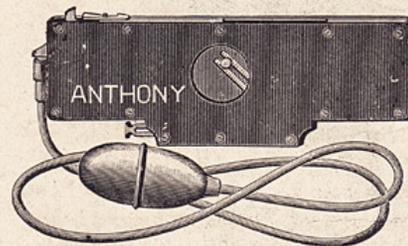
Showing Finder on Camera.

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.

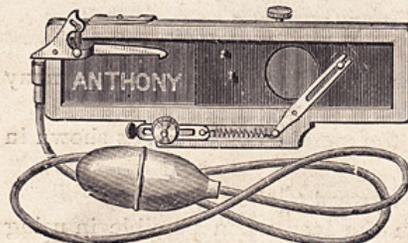
Price, \$1.50

Anthony's Climax Shutter.

THE shutter is attached to the lens tube by means of a metal collar, that is provided with a binding screw to hold it firmly in place. The shutter consists of a wooden casing, with facing of hard rubber, inside of which is a hard rubber slide, having an aperture corresponding



in size to the aperture in the casing. This slide runs very easily in the grooves in wooden casing, and admits of a very rapid exposure when the shutter is set at full speed. The shutter is set by turning (*towards the right*) the milled screw at the left hand side of back. The speed can be regulated at will by drawing out or pushing in the brass pull, seen in the cut, at lower left hand side of shutter, a binding screw at the left serving to hold this pull at any desired distance, thus perfectly regulating the speed.



For time exposures the shutter should be set at slow speed, and the little brass piece on top of shutter at the left hand side (see cut), so adjusted as to allow the long arm of the trigger to reach down as far as it will go, thereby engaging with the lower pin on the slide at the moment

Catalogue for Amateurs.

when the openings in slide and wooden casing coincide. The shutter is constructed so as to remain open until the pressure on the bulb is released, when it will close instantly.

Size.	Apert. of shutter.	Price.	Size.	Apert. of shutter.	Price.
No. 1.	1 inch,	\$4.00	No. 3.	1½ inch,	\$4.50
No. 2.	1¼ "	4.25	No. 4.	1¾ "	4.75

Collars furnished to fit all standard lenses without extra charge.

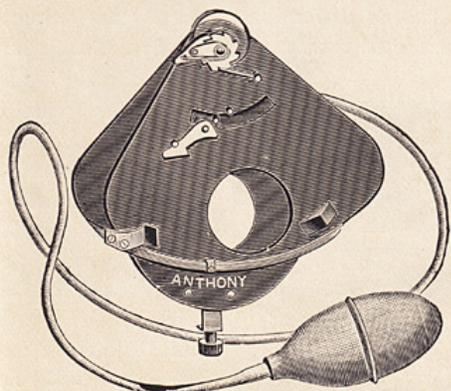
Anthony's Instantaneous Drop.



CONSISTS of two thin pieces of wood, each having a hole cut in it of the same size, and so arranged that when one piece is placed upon the end of the tube (which fits into the circular opening), the other piece can be made to slide up and down directly against it. Prices for 4 x 5, \$1; 5 x 8 and 6½ x 8½, \$1.25. Larger sizes to order.

The Nonpareil Shutter,

For Time or Instantaneous Exposure.



THE above cut represents the Nonpareil Shutter, possessing many advantages over those previously shown.

For instantaneous exposure, leave the metal catch down, as shown in cut.

For time exposure, turn the catch upward to the right.

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

Catalogue for Amateurs.

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.

It is compact, light and simple in construction, easily worked and of fine appearance, and 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.
No. 1.	1 inch,	1 to 1½ inches.
" 2.	1¼ "	1½ to 2 "
" 3.	1½ "	1½ to 2 1/8 "
" 4.	1¾ "	1¾ to 2 1/8 "

Prosch's Duplex Shutter.

A Perfect Time and Instantaneous Shutter.

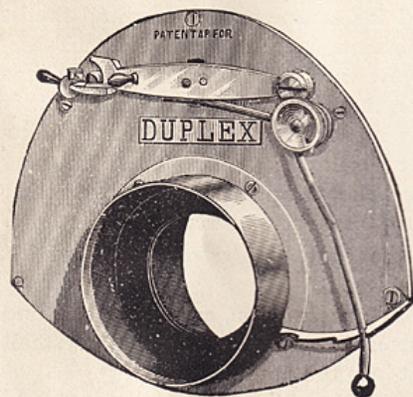
THIS SHUTTER is now so well known that an extended description here is hardly required. When shutter is received by purchaser, he transfers the glasses from his regular lens tube to correctly adapted tubes on the shutter, which are also arranged to receive regular diaphragms. Rotary diaphragms are added to shutter when ordered.

DUPLEX ENLARGED REVISED LIST.

Numbers,	. 00	0	0A	1	1A	2	2A	3	4	5	6
Openings, in	1/8	1/4	1/2	1 1/8	1 1/4	1 1/2	1 3/4	1 7/8	2	2 1/4	3 1/4
Prices,	\$11.50	12,	12.50,	13,	13.50,	14,	14.50,	16,	18,	20,	25.

Rotary stops to shutters up to and including No. 1, \$1.50; to No. 2A, \$2. An additional pneumatic attachment may be added at same

extra prices as for rotary stops, by which silent time and very slow to quite rapid instantaneous exposures can be made without having to reset the shutter for each exposure.



Opening in shutter should be about the size of next to largest diaphragm. Shutters can be furnished complete for most standard lenses, but it is to customer's interest to forward his lens tube to ensure a perfect fit, which is returned to him intact, with complete shutter.

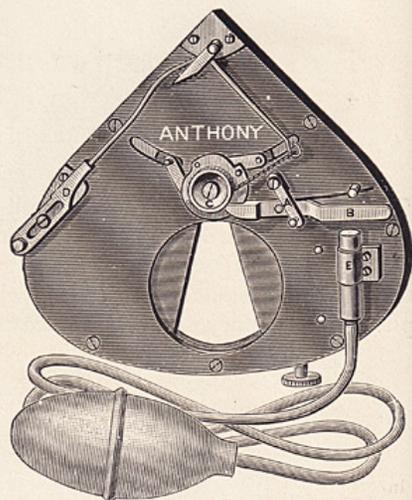
The Duplex can be operated, either time or instantaneous, as easily from a considerable distance as when close by.

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.



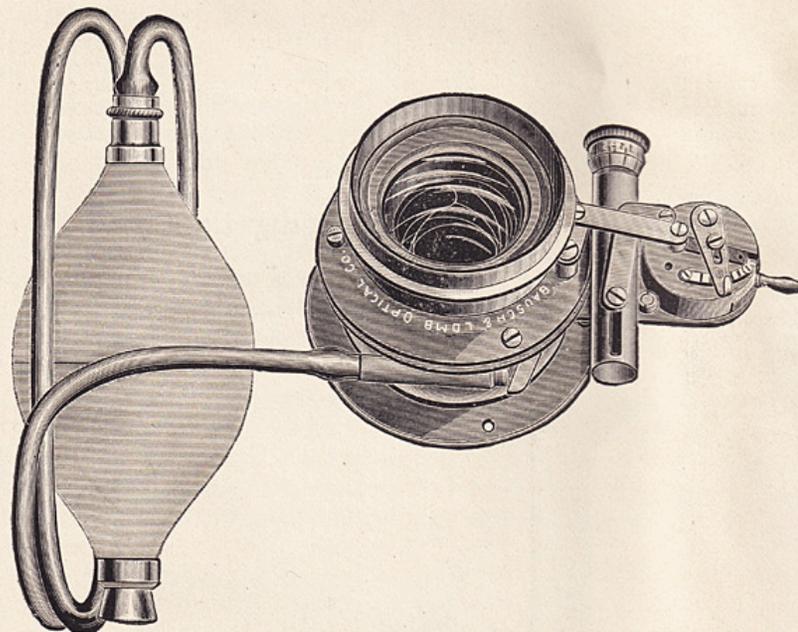
The shutter is attached to the front of the lens by means of a collar. They are kept in stock of two sizes, aperture of $1\frac{1}{4}$ and $1\frac{3}{4}$ inches. Collars may be fitted to any of the regular makes of lenses in market.

Price, each, \$12.00

Diaphragm Shutter.

(Time and instantaneous. With Silent Time Attachment.)

Model 1889.



THIS SHUTTER is the first practical form based on the principle of the Iris Diaphragm. Its advantages have been so apparent and its workmanship of such excellent quality, that it has been received with the most pronounced favor since its first introduction.

A series of steel blades are pivoted around the central opening, and in making exposures form a gradually expanding aperture to the size desired, and closing, form a contracting opening until the closed pivot is reached.

In the Model 1889, the spring, which is of such strength that it will not break, remains at one high tension, and a variation in speed is obtained by means of air compression in the horizontal tube. This is a new addition which is exceedingly valuable, as by means of the screw-head at its end a variation in speed may be obtained from one to one-

hundredth second, and when the mechanism is set for it, silent time exposures can be made. The variation for size of opening is made by means of a lever on the face of the revolving disc which indicates the various sizes of stops by a pronounced click. The change from time to instantaneous, or *vice versa*, is made by a lever at the back of the mounting, and when set for one or the other, it remains so until again changed.

All shutters are supplied with rubber bulb and tube.

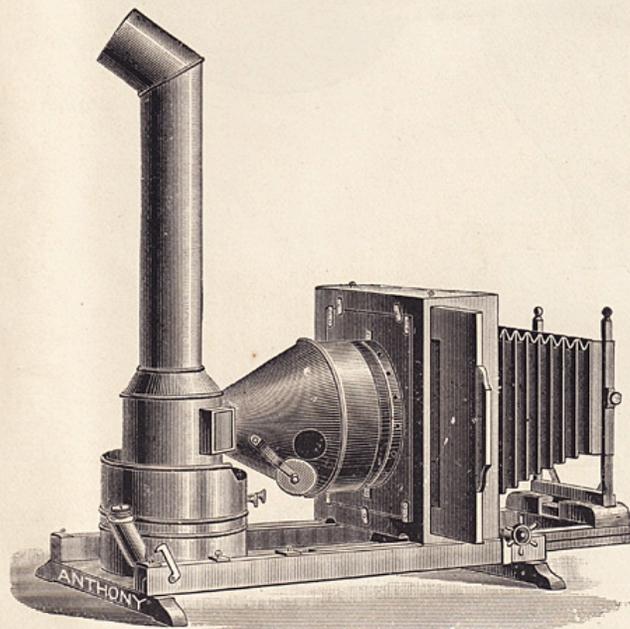
4 x 5	.	.	.	.	.	.	.	\$12.50
5 x 8	.	.	.	1 $\frac{1}{8}$	.	.	.	13.50
6 $\frac{1}{2}$ x 8 $\frac{1}{2}$	.	.	.	1 $\frac{1}{4}$	.	.	.	14.50
8 x 10	.	.	.	1 $\frac{3}{8}$	.	.	.	16.00
10 x 12	.	.	.	2	.	.	.	17.50
12 x 15	.	.	.	2 $\frac{1}{4}$	.	.	.	19.00
16 x 18	.	.	.	2 $\frac{3}{8}$	.	.	.	20.50

Cooper's Universal Enlarging Lantern.

(Patented.)

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

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



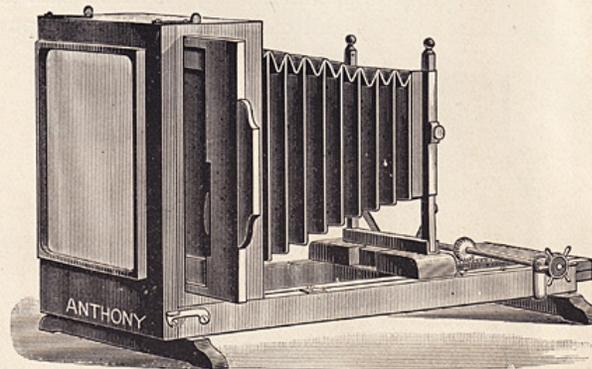
Above shows it as in use with *artificial* light.

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.

Catalogue for Amateurs.

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

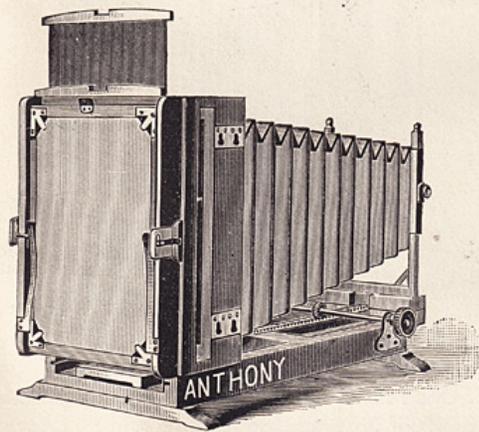
This lantern may be transformed into an 8 x 10 portrait or copying camera by the addition of an adapter, double dry plate holder, and ground glass, at an extra expense of \$10.

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

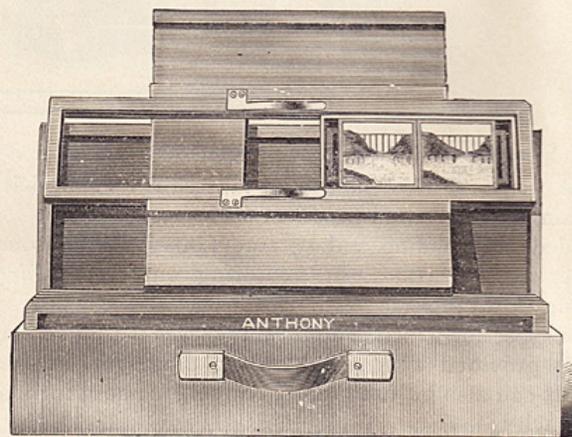
Catalogue for Amateurs.

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.



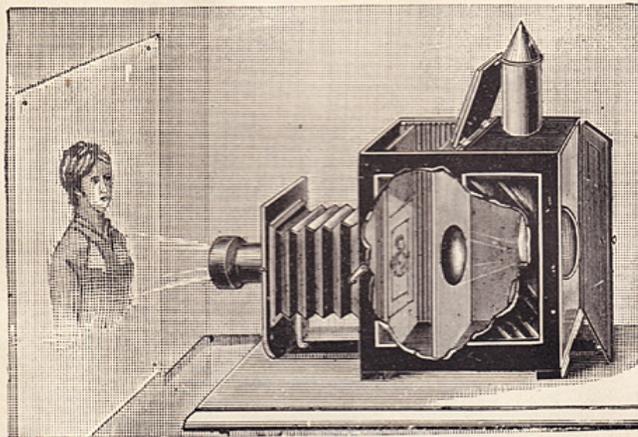
THE ABOVE CUT represents the attachments which may be used with the Cooper Lantern for the exhibition of slides of views or scientific subjects, and makes the apparatus complete and specially suited to the use of schools, colleges and societies.

Consists of frame, 6 carriers and box.

Price, \$7.50.

Anthony's Improved Enlarging Lantern.

(Patented.)



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

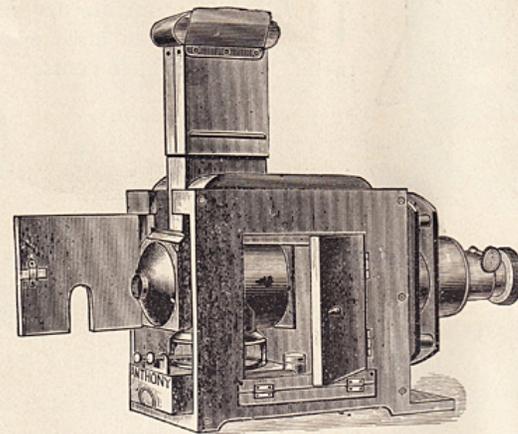
It is intended for making enlargements on gelatino-bromide rapid printing paper by artificial light, requiring only from *thirty to sixty seconds'* exposure for a life-size head.

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

Anthony's Triplexicon Magic Lantern.



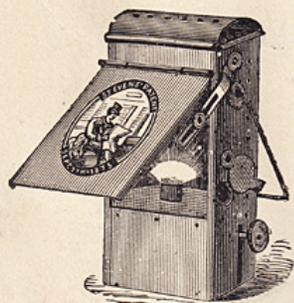
WE have seen many lanterns in our time, but in several respects this eclipses them all, and especially those for use with kerosene oil only. The lamp itself is completely shielded with a well made hood of Russia iron, and is provided with the patent triplex wick, which affords the utmost illumination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

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

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

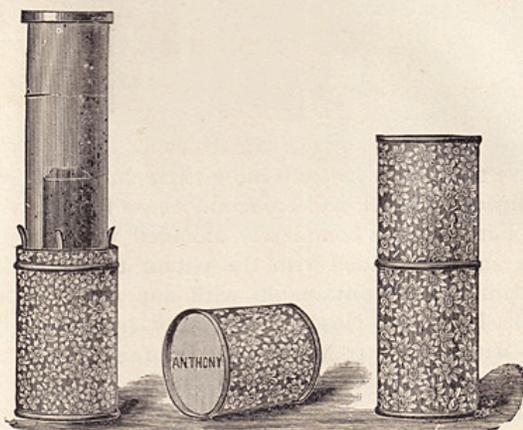
Altogether, this is the finest example of its kind we have yet seen. It will also serve admirably for enlargements with the gelatino-bromide paper. It is destined to become very popular. Price, \$35.00.

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.



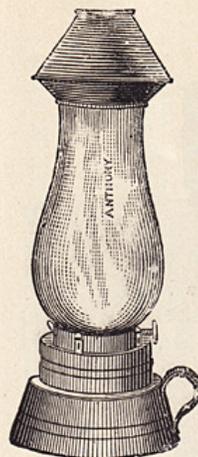
THE accompanying cut represents the Tisdell Candle Ruby Light for developing the most sensitive gelatine dry plates. One-half of a common sperm candle is the fuel required, consequently there is no danger of an explosion.

- 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 $6\frac{3}{4} \times 2\frac{1}{2}$ inches, and its weight only twelve ounces.

Price, complete, \$1.35

Oil Lamp with Ruby Chimney.



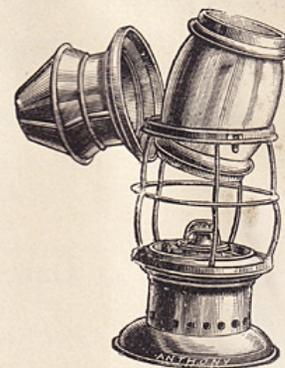
THE accompanying cut represents an oil lamp for use in developing gelatino-bromide plates. It is expressly made for the purpose, and is intended for use with kerosene oil. The chimney is of ruby colored glass of the proper and most desirable tint, and surmounted with a movable top to intercept the upward radiation of the light of the lamp.

Price, \$1.50 each.

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.



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.

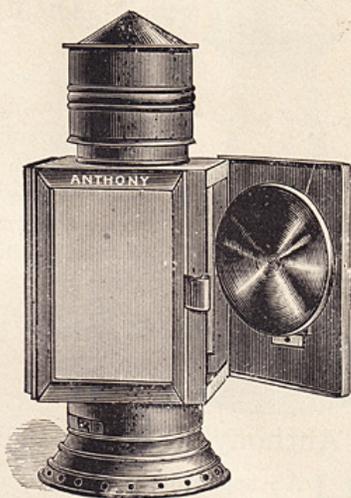
Price, \$2.00

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.

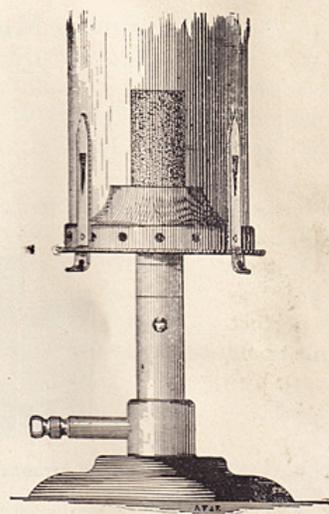
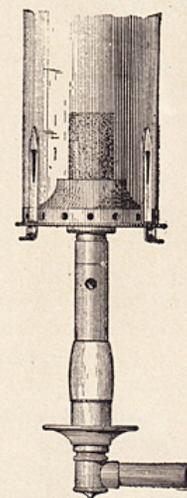
These burners are also manufactured on metal stands with a connection for rubber hose, by which they may be used at any distance from the gas bracket. Price of stand extra, 50 cts.

The Aladdin Dark Room Lamp.

Patent Applied For.

THIS lamp is made for use with gas and may be fitted over any ordinary burner, or if preferred, may be had with iron base for use on the table in connection with rubber tubing.

It is fitted with a wick and nonactinic glass chimney which together give a beautiful yellow



light for dark room use, which is perfectly safe, without smoke or odor, more brilliant than the ordinary ruby light and both pleasant and restful to the eyes.

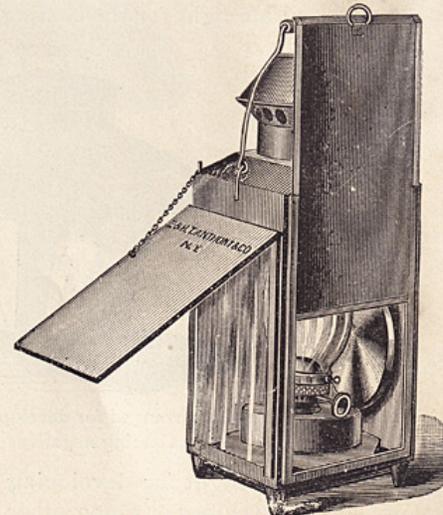
Price, including nonactinic amber chimney, extra brass tip and box of chemical wicks in wooden box complete, \$3.50. Extra chemical wicks sufficient for one thousand hours' lighting, per box, 35c. Extra non-actinic amber chimneys, each, 30c.

In ordering please specify whether bracket or table lamp is desired.

Anthony's Helios Dark Room Lantern.

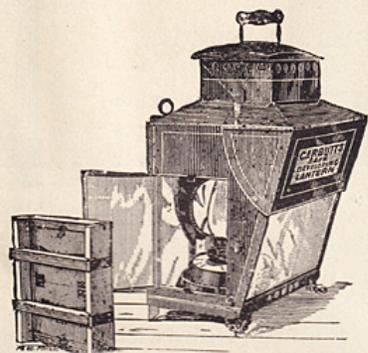
THIS is a new lantern for the dark room for those who desire more light than can be had from the ruby lamp. This lantern or lamp will be found to be all that can be desired. The draught is as perfect as can be. It has a glass 6½ x 8½ inches, with a burner capable of great volume of light when desired. It is intended to fill a want long expressed by many, for a good dark room lantern at a reasonable price.

Price, \$4.00



Carbutt's Multum in Parvo Lantern.

Patented April 25, 1882.



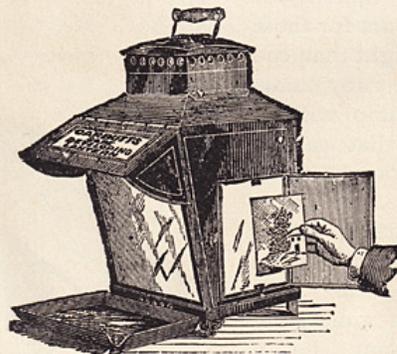
Lantern arranged for making positives by contact.

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

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, \$0.75
" 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	

Catalogue for Amateurs.

Economy Rubber Tray.
(Patented.)

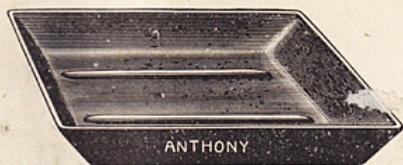


AS will be seen by the cut, the glass negative lies flat on the bottom of the tray, necessitating the least possible quantity of developer, and the depressed channel in bottom of tray is sufficiently deep to allow the finger or plate-lifter to engage firmly underneath the plate and remove it without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

No. 2, 3½ x 4½, each,	\$0.28	No. 4, 5½ x 8½, each,	\$0.56
" 3, 4½ x 5½, " . . . . .	.28	" 5, 7 x 9, " . . . . .	.72
No. 6, 8½ x 10½, each,	1.08		

Ebonite Tray.

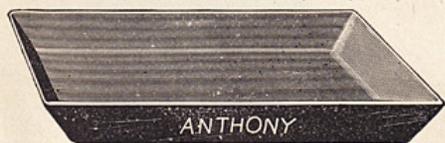
IT is easily kept clean, and has a polished surface of high finish. Two slightly raised ridges on the bottom prevent the plate from adhering to the tray.



No. 1, for 3½ x 4½ plate, each, . . .	\$0.24
" 2, ½ and 4 x 5 " " . . . . .	.28
" 3, 4½ x 6½ " " " " . . . . .	.40
" 4, 5 x 7 and 5 x 8 plate, each, . . .	.56
" 5, 6½ x 8½ plate, each, . . . . .	.72
" 6, 8 x 10 " " " "	1.08
" 7, 10 x 12 " " " "	1.56
" 8, 11 x 14 " " " "	2.40

Papier Maché Trays.

A RECENT 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,	\$2.85
2. 4½ x 5½, . . . . .	.30	9. 16 x 20,	3.35
3. 5½ x 8½, . . . . .	.55	10. 19 x 24,	5.75
4. 7 x 9, . . . . .	.70	11. 23 x 27,	6.75
5. 8½ x 10½,	1.05	12. 26 x 30,	7.75
6. 10½ x 12½,	1.65	13. 28 x 34,	8.75
7. 12 x 14½,	2.10		

Catalogue for Amateurs.

Amber Glass Trays.



THESE TRAYS are non-actinic, clean and convenient.

5½ x 8½,	\$0.35	8½ x 10½,	\$0.75
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Porcelain Developing Trays.

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

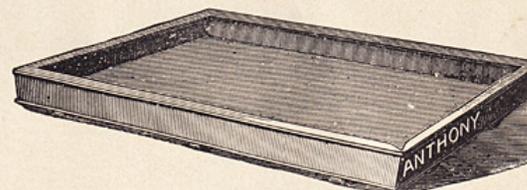
	Shallow.	Deep.		Shallow.	Deep.
5 x 7,	\$0.44	\$0.62	8 x 10,	\$0.82	\$1.00
5½ x 8½, . . . . .	.60	.75	10 x 12,	1.32	1.66
7 x 9, . . . . .	.66	.82			

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,	\$0.56	\$0.40
5½ x 8½ " 5 x 8 " " . . . . .	.75	.60
7½ x 9½ " 6½ x 8½ " " " " . . . . .	.80	.65
10 x 12 " 8 x 10 or 10 x 12 plates,	1.50	1.20
11 x 14½ " 11 x 14 plates,	2.40	2.00
14 x 17½ " 14 x 17 " " " "	6.00	4.60
15 x 19 " 14 x 17 or 14 x 18 plates,	7.00	5.50

Climax Trays, for Developing Large Bromide Prints.



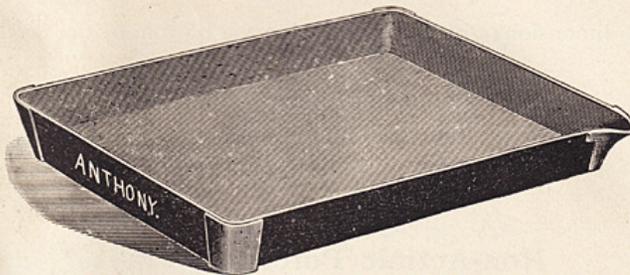
HAVING succeeded in producing the Cooper Enlarging Lantern at a very low rate, to use in making the print, we now offer the

Catalogue for Amateurs.

above article for use in developing and fixing the same. We guarantee it for the purpose specified, and can furnish the following sizes, viz.:

15 x 19, each,	\$3.00	26 x 32, each,	\$6.00
19 x 24, "	4.00	31 x 42, "	10.00
21 x 25, "	5.00	31 x 64, "	14.00
23 x 29, "	5.50	45 x 64, "	18.00

Hard Rubber Trays.



Original and Genuine Hard Rubber.

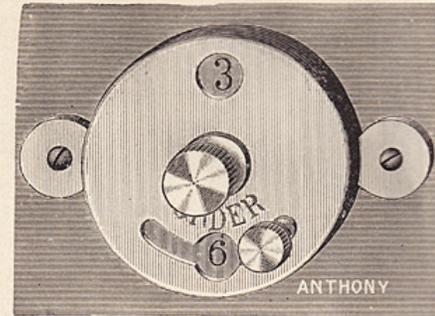
THESE goods, so long and favorably known to the profession, and which have met with universal approval, are now offered at the following reduced prices :

4½ x 5½, each,	\$0.50		
5 x 9 " . . . . .	.60		
5½ x 8½ " . . . . .	.72		
7 x 9 " . . . . .	.85		
8½ x 10½ "	1.15		
10½ x 12½ "	1.80		
12 x 16 "	2.50		
15 x 18 "	4.10		
18 x 22 "	5.35		
21 x 26 "	7.50		
		Extra Deep.	
		10 x 12, each,	\$3.25
		12 x 16. "	4.50
		15 x 18, "	5.75
		18 x 22, "	7.50
		19 x 24, "	8.25
		21 x 26, "	10.00

Catalogue for Amateurs.

Allderige's Compound Printing Register.

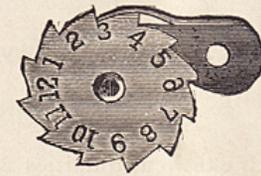
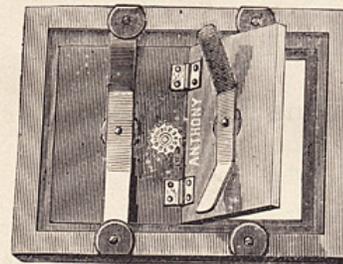
(Patented.)



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

Price, per dozen, \$1.25

Improved Printing Frames.



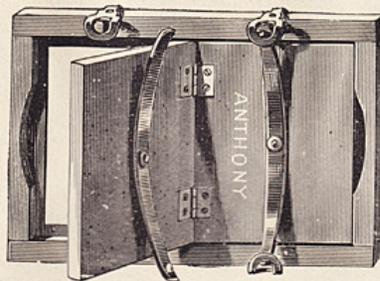
OUR PRINTING FRAMES are now provided, in all sizes, with the new tally without addition to price. As will be seen from the cut, the numerical wheel is revolved, being held firmly in position by a spring. These printing frames are made of cherry, with superior brass springs, constructed on the most scientific principles. The springs are riveted to the backs and a brass washer is placed under the spring to prevent abrasion of the wood in turning it.

For Plates.		For Plates.	
3½ x 4½, each,	36c.	5 x 7, each,	50c.
4 x 5, "	38c.	5 x 8, "	52c.
4½ x 5½, "	40c.	6½ x 8½, "	60c.
4½ x 6½, "	42c.	8 x 10, "	75c.

Catalogue for Amateurs.

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.	
3½ x 4½ each,	. . . . .	5 x 7, each,	. . . . .
4 x 5, "	. . . . .	5 x 8, "	. . . . .
4½ x 5½, "	. . . . .	6½ x 8½, "	. . . . .
4¾ x 6½, "	. . . . .	8 x 10, "	. . . . .
	45c.		60c.
	45c.		60c.
	45c.		65c.
	55c.		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 with out 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 "

Catalogue for Amateurs.

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.

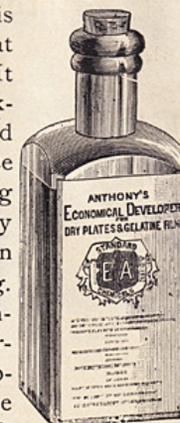
Put up in eight ounce bottles, price,	. . . . .	30 cts.
Sixteen ounce bottles,	. . . . .	55 "

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 underexposed 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.
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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 Pure Chemical Tablets.

Something New and Practicable.



FOR convenience in the compounding of developers, we have prepared the following chemicals in the form of *tablets*, each tablet containing a specified number of grains. We believe that they will be found very valuable, particularly among amateurs, who, by their use, will be enabled to dispense entirely with the troublesome method of weighing for each formula. We put them on the market with confidence that they will fill a long felt want.

		PRICE PER BOTTLE.	
$\frac{1}{2}$ oz.	Hydrochinon,	(about 54, 4 grain Tablets),	\$0.50
$\frac{1}{2}$ "	Pyrogallic Acid,	" 47, 5 " "	40
I "	Carb. Potass.,	" 87, 5 " "	20
I "	Sulphite Soda,	" 87, 5 " "	20
I "	Carb. "	" 87, 5 " "	20
$\frac{1}{2}$ "	Bromide Potass.,	" 106, 2 " "	20

Anthony's Compound Toning Tablets.

FOR convenience in toning silver prints these tablets will be found unequaled. One tablet dissolved in 7 oz. water and combined with $\frac{1}{2}$ 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.

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.

Patent Metallic Protecting Cases.

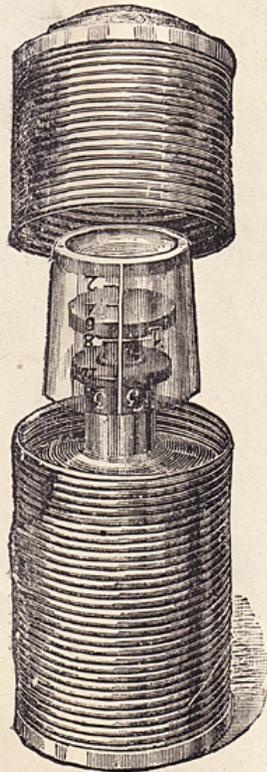
With Ground Stoppie Bottle and Graduated Tumbler for Chemical Solutions.

THESE CONTRIVANCES are a great convenience to either amateur or professional photographers who wish to carry solutions of developer, etc., in their travels without possibility of breakage or leakage.

The cases are drawn from solid metal and made of even thickness throughout, being corrugated for the purpose of giving them strength to resist crushing or indentation, as they are very light. This corrugation answers the purpose of a male and female screw, whereby the top of the case is screwed down until it rests on the glass stoppie of the bottle and thus keeps it tightly in its place and prevents the bottle from rattling about in the case. The cut shows the case as it appears when open, indicating the style and position of the graduated tumbler which is furnished with the three last sizes.

They are nickel finished and are very attractive in appearance.

- No. 1. Diameter, 1½ in.; length, 3½ in.; weight, 4¼ oz., furnished with 1 oz. bottle, each, . . . \$0.50
- No. 3A. Diameter, 2 in.; length, 5½ in.; weight, 7¾ oz., furnished with 4 oz. bottle, with tumbler, making ¼ pint flask, each, . . . 85
- No. 4A. Diameter, 2½ in.; length, 7 in.; weight, 14 oz., furnished with 8 oz. bottle, with tumbler, making ½ pint flask, each, . . . 1.10
- No. 13A. Diameter, 2¾ in.; length, 6 in.; weight, 17 oz., furnished with 8 oz. bottle, with tumbler, making ½ pint flask, each, . . . 1.20

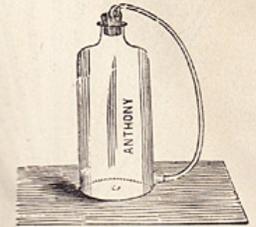


Anthony's Developing Bottle.

For Oxalate Developer.

THIS DEVELOPING BOTTLE is a great convenience to the amateur or professional photographer. It is provided with a rubber tube by which the developer is drawn from the bottom of the bottle as required. A thin layer of oil on the surface prevents chemical action from contact with the air. It will soon save its cost in the quantity of developer economized.

Quarts, 75 cts.

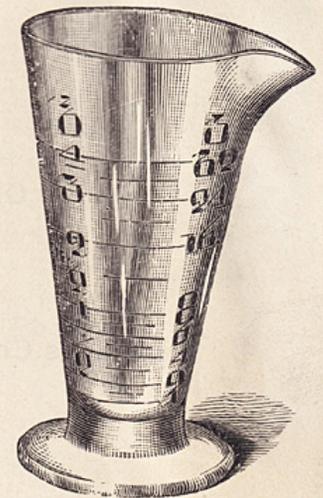


Anthony's Superior Molded Graduates.

Warranted Accurate.

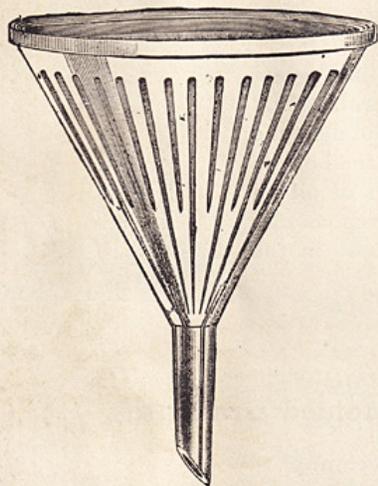
COMPLAINT is frequently made of the ordinary glass graduate that it is not accurate, and sometimes one marked 16 oz. will show a variation of 1 oz. either way.

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
½ ounce, " . . . . .	.20
1 " " . . . . .	.20
2 " " . . . . .	.20
3 " " . . . . .	.25
4 " " . . . . .	.30
6 " " . . . . .	.35
8 " " . . . . .	.45
12 " " . . . . .	.60
16 " " . . . . .	.75
24 " "	1.00
32 " "	1.25

The Patent Fluted Funnel and Filter.



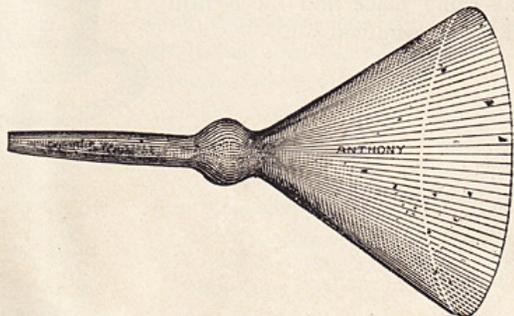
THESE are the latest and best glass funnels ever made. They are very strong; are made in molds; have solid glass ribs on the inside, running vertically as shown in cut, thus forming passages through which the solution descends freely after passing through the paper, and accomplishing the filtration in 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 pin.	\$0.12	2 quarts,	\$0.25
1 " "	.15	1 gallon,	.50
1 quart,	.20	2 gallons,	.75

Anthony's Combined 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,	50c.	Quarts,	62c.	Half gallon,	\$1.00
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Glass Stirring Rods.

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

Both ends are glazed finished.

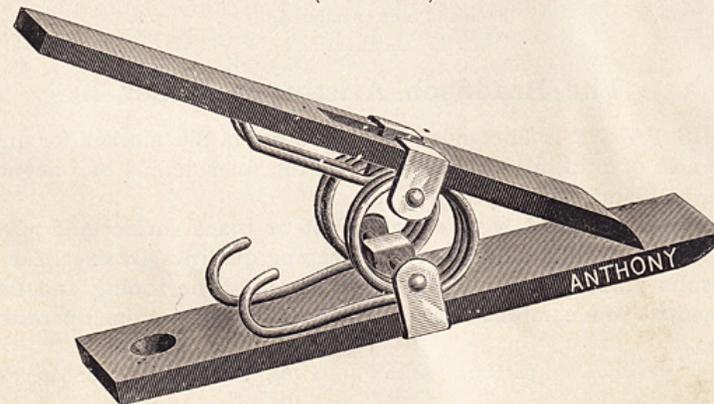
Daisy Permanent Starch Paste.

THERE has been for a long time a demand for a Starch Paste that would neither mold, sour or 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	EACH.
1/2 pint jars,	\$0.25
1 " bottles,	.35
1 quart "	.55
2 " " "	1.00
1 gallon "	2.00

Allderige's Adjustable Photo Clip.
(Patented.)

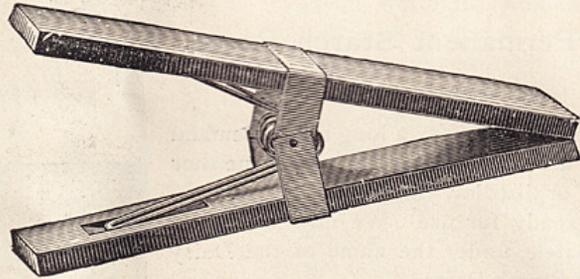


THE ILLUSTRATION shows the clip with one end extended. This article, from its form of construction, is much more durable

than any other adjustable clip in market. The change from long to short clip is effected in an instant, and there is nothing about it to break or get out of order. The cut represents the exact size.

Price per dozen, 63 cts.

Lockwood's Patent Photo Clips.



THESE are the most desirable articles of their class to be found in the market, being substantially made in the best manner, and the fact that they never break or give way in any particular must recommend them to all. The springs are made of first quality brass wire, and the wood is very hard and durable. They are made in two sizes and various styles, as follows, the cut showing the exact size of the large clip:

No.	Description	Full Gross.	Per Doz. Cents.
No. 15 A	Small, 2½ inches, plain, chamfered,	\$4.80	45
" 15 B	" " with hook "	5.50	50
" 15	" " and hole chamfered,	6.00	55
" 1	Large, plain,	6.00	55
" 14	" with hook,	6.80	60
" 17	" " hole chamfered,	7.00	65
" 18	" " hook and hole chamfered,	7.20	70

The Bradfish Aristotype Paper.

THIS PAPER is unequalled by any other in the market for quickness of printing, for bringing out the finer details of a negative, and for brilliancy and depth of tone.

It may be finished with either a flat or glacé surface and may be toned in several shades of color. Its keeping qualities are excellent and the results obtained with it are unsurpassed. The toning and fixing may be done in a combined bath thus necessitating but one operation.

Size. Inches.	per dozen, \$	Size. Inches.	per dozen, \$
3½ x 4½	20	6½ x 8½	70
4 x 5	25	8 x 10	90
4 x 6	"	20 x 24	35 per sheet,
5 x 7	"	20 x 24	3.60 per dozen sheets,
5 x 8	45	20 x 24	120.00 per ream,

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.

3½ x 4½ inches, in light tight boxes of 2 dozen, per box,	\$0.25
4 x 5, " " " 2 " "	40
4½ x 6½, " " " 2 " "	50
5 x 7, " " " 2 " "	70
5 x 8, " " " 2 " "	75
6½ x 8½, " " " 2 " "	1.00
8 x 10, " " " 2 " "	1.50
18 x 22, " " " 2 " "	1.50

per sheet, 25 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 is made in a quick emulsion for use with artificial light; and also in a slow, for use with daylight. It can be had either quick or slow, 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.
3½ x 4½	\$0.25	11 x 14	\$3.00
4 x 5	40	12 x 15	3.35
4½ x 5½	50	14 x 17	4.50
4½ x 6½	55	16 x 20	6.00
4½ x 6½	60	17 x 20	6.40
5 x 7	65	18 x 22	7.50
5 x 7½	70	20 x 24	9.00
5 x 8	75	22 x 27	11.25
6½ x 8½	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

Catalogue for Amateurs.

IN ROLLS (10 Yards.)

	Per Yd.		Per Yd.
10 inches wide,	\$0.56	20 inches wide,	\$1.12
11 " "	62	22 " "	1.24
12 " "	68	24 " "	1.35
14 " "	79	25 " "	1.40
16 " "	90	30 " "	1.68
18 " "	1.00	31 " "	1.74

EXTRA LARGE SIZES.

	Per Yd.		Per Yd.
33 inches wide,	\$1.85	37 inches wide,	\$2.10
35 " "	1.96	41 " "	2.30

When the slow paper is wanted, please mention it particularly in the order, as otherwise the quicker grade will be sent. Price same for both.

GRADES.

H. G.—Heavy Grain. H. S.—Heavy Smooth. L. S.—Light Smooth.
 Always designate the *Grade* you desire.
 Regular Reliable Bromide Paper is put up in MANILLA WRAPPERS.
 Slow Reliable Bromide Paper is put up in BLUE WRAPPERS.

Pizzighelli Direct Printing Paper.

THIS is a new production which requires neither developing nor toning and gives a beautiful print, with deep rich black tones of color, at a minimum of labor. After printing, the paper is soaked for a few moments in dilute muriatic acid and washed in two or three changes of water and the result is absolutely permanent.

Price per package of one dozen sheets.

4 x 5 inches,	\$0.62
5 x 7 "	1.00
5 x 8 "	1.20
6½ x 8½ "	1.40
8 x 10 "	2.50

E. A. Ferro-prussiate Paper, for Making Blue and White Pictures.

THIS requires no chemicals in its development. It is merely printed for about ten minutes in the sunlight and then washed thoroughly in clean water.

Catalogue for Amateurs.

This paper is extremely simple in its manipulation, and therefore very convenient for making proofs from negatives. It is also adapted for the reproduction of mottoes, plans, drawings, manuscript, circulars, and to show representations of scenery, boats, machinery, etc., for an engraver to copy from. The rapidity with which a print can be made with this paper is, for numerous purposes, and to men in some occupations, a very great recommendation in its favor.

3½ x 4½ inches, in light-tight boxes of 2 dozen, per box,	\$0.16
4 x 5 " " " " 2 " " . . . . .	.20
4½ x 6½ " " " " 2 " " . . . . .	.30
5 x 7 " " " " 2 " " . . . . .	.35
5 x 8 " " " " 2 " " . . . . .	.40
6½ x 8½ " " " " 2 " " . . . . .	.56
8 x 10 " " " " 2 " " . . . . .	.63
18 x 22 " per sheet, 18 cents; per dozen,	1.50

To save loss, boxes are not broken. In full rolls of 10 yards each, 30 inches wide, \$2.40 per roll.

Anthony's Safety Cans.

For preserving sensitized albumen paper.

No. 1, for paper up to 4½ x 6½, each,	\$1.35
No. 2, " " 8 x 10 "	1.50
No. 3, " " 18 x 22 "	2.00
No. 4, " gallery size, full sheets, each,	3.00

Climax Absorbent.

FOR use in Anthony's Safety Cans, is unsurpassed as a preservative of sensitized albumen paper, it serves to keep all the good qualities of the paper in perfect working order and is of great advantage to any one using albumenized paper.

No. 1, per Can,	\$0.15
No. 2, " . . . . .	.25
No. 3, " . . . . .	.50



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.

Catalogue for Amateurs.

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

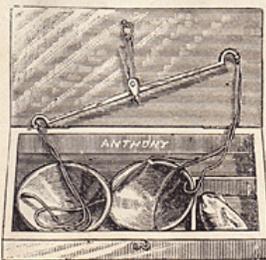
4½ x 6½	Developing Outfit, as above,	6.25
5 x 8	“ “ “	6.50
6½ x 8½	“ “ “	8.00
8 x 10	“ “ “	9.50

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.—2 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 japanned developing tray; half-ounce graduate; 1 5 x 7 porcelain tray (deep); 1 jar of paste; 1 one-inch 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, 9 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.

Catalogue for Amateurs.

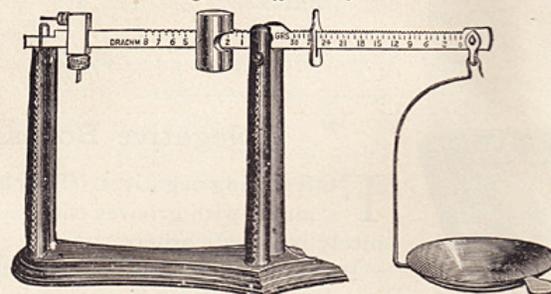
Patent Pocket Pyro Scales.



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 ¼ to 20 grains. Price, complete, \$1.00.

New Patent Dispensing Scale.

No Weights. Quickly Adjusted.

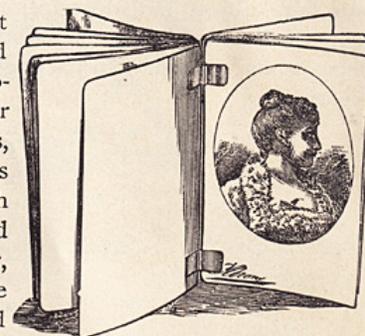


THIS, we believe, will fill a long felt want. It has a 9-inch nickel-plated beam, neatly mounted on a japanned iron standard. The front end of the beam weighs from one to thirty grains, the other end weighing from one-half to eight drams, or one ounce, and is very accurate. The pan is movable and has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

The Novel Picture Clasp.

(Patented.)

THIS article supplies a long felt want for something that would serve to hold mounted photographs together and admit of removal of one or more at will. These are small clamps, arranged in gangs of twelve, by means of wire loops that act as hinges. With two of these gangs twelve mounted photographs are held firmly together, and can be laid on a table or held in the hand, and the photos examined or turned over like leaves of a book. The photos thus mounted can be stood on end on a table, making an attractive



ornament and a very convenient method of showing specimen pictures in the studio. This admits of the photos being burnished, which cannot be done with the ordinary amateur album. They are sold in sets of two gangs. Price per set, 50 cents.

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,	\$0.65
4 x 5, . . . . .	.65
5 x 8, . . . . .	.85
6½ x 8½, . . . . .	.95
8 x 10,	1.10

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	\$2.70
" 2,	" "	4½ x 5½,	"	3.15
" 3,	" "	4½ x 6½,	"	3.35
" 3½,	" "	5 x 7,	"	4.00
" 4,	" "	5 x 8,	"	4.10
" 5,	" "	6½ x 8½,	"	4.70
" 6,	" "	8 x 10,	"	6.20
" 7,	" "	10 x 12,	per 100.	1.40
" 8,	" "	11 x 14,	"	1.60
" 9,	" "	14 x 17,	"	2.75

The Anthony Self-Changing Shower Washing Box.

(Patent applied for.)

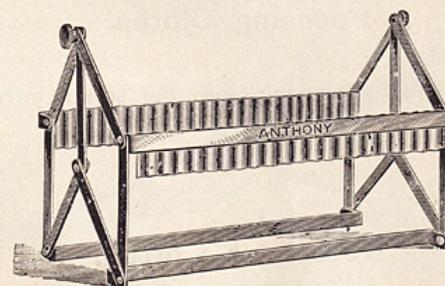
THE ANTHONY SELF-CHANGING SHOWER WASHING BOX for dry plate negatives is a nicely constructed and convenient apparatus. Made substantially, and well japanned inside and out, it has interior grooves in which either 5 x 8 or 8 x 10 negatives may be placed. When the negatives are introduced, the hose is attached to a faucet, the lid is now closed and locked if desired, and the water turned on.



It will be seen that the water enters the washer from above, and that the inside of the lid is made in the form of a perforated fountain, which discharges a spray over the plates. When the negatives are entirely submerged, the water is all drawn off by means of a self-acting siphon, and the process of showering is repeated.

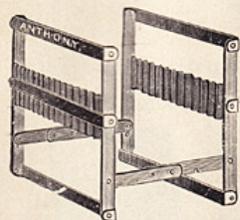
With this apparatus the hypo can be thoroughly eliminated from the gelatine film in from fifteen minutes to half an hour. The change of water is continuous. Price, \$5.

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.

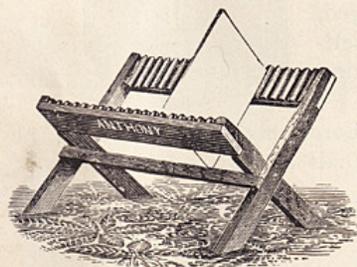
Coe's Negative Washing Rack.



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

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, 50 cents each.

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

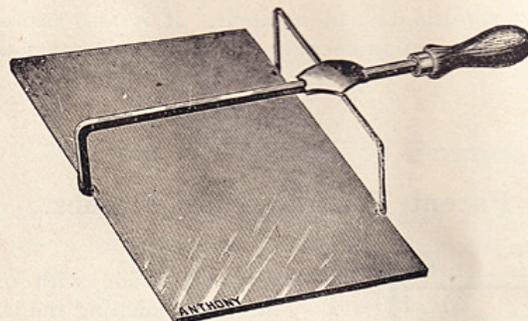
Focusing Cloths.

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

Absorbent Cotton.

1 lb. package, 75c.
 8 oz., in paper box 40c.
 4 oz., in paper box 25c.

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.

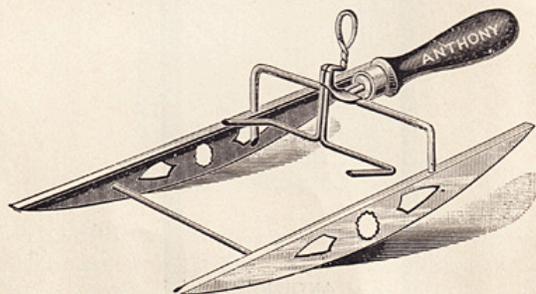
No. 1, for plates 3½ x 4½ to 5 x 8, Each, 60 cts.
 " 2 " 4 x 5 to 8 x 10, " 90 cts.

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.

Allderige's Developing Rocker.

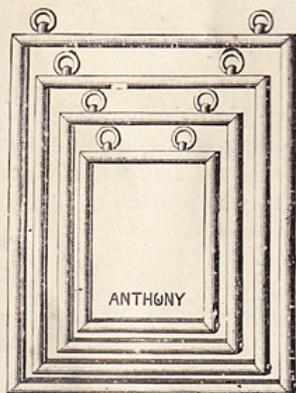


THE regularity of the motion allowed by the Rocker necessitates the use of less solution and diminishes the danger of streaked

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

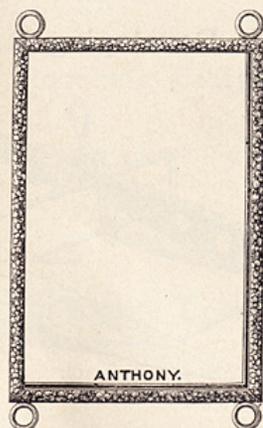
Patent Transparency Frames.



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 8, "	4.08
6½ x 7½, "	4.56
6½ x 8½, "	4.56
6½ x 9, "	5.25
8 x 10, "	5.76
10 x 12, "	9.00
11 x 14, "	10.80

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	6½ x 9, per doz.,	\$5.75
5 x 8, "	4.50	8 x 10, "	6.25
6½ x 7½, "	5.00	10 x 12, "	9.50
6½ x 8½, "	5.00	11 x 14, "	11.25

Zig-Zag Transparency Frames.

Plain Nickel.

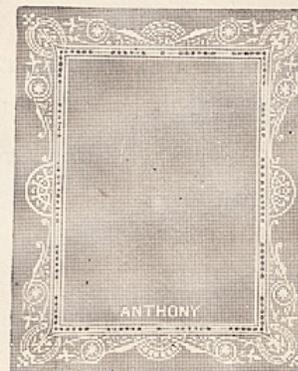
THESE by many are preferred to the regular styles, on account of the ease in fitting glasses of different thicknesses. All are made with ring in each corner, to hang either vertically or horizontally, as represented in cut illustrative of the Antique Silver.

4 x 5, per doz.,	\$3.75	6½ x 9, per doz.,	\$5.50
5 x 8, "	4.00	8 x 10, "	6.00
6½ x 7½, "	4.50	10 x 12, "	7.50
6½ x 8½, "	4.50	11 x 14, "	9.00

Plain Ground Glasses for Transparencies or Cameras.

4 x 5, each,	\$0.10	6½ x 8½, each,	\$0.26
4½ x 6½, "	13	8 x 10, "	32
5 x 8, "	18	10 x 12, "	50

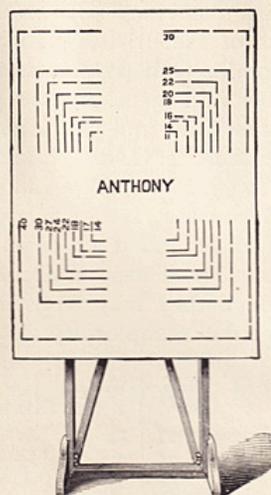
Etched Ground Glass for Transparencies.



THESE GLASSES are etched with handsomely figured borders and the 8 x 10 and 10 x 12 sizes may be had in either of two or three designs. The other sizes are only supplied in one pattern.

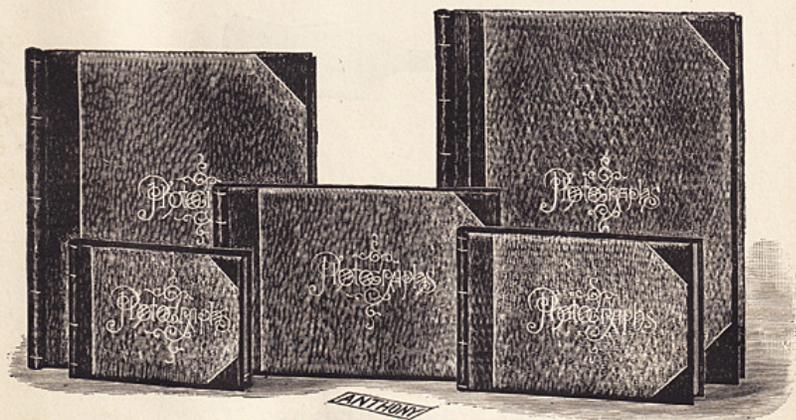
6½ x 8½ glass for picture	4½ x 6½,	. . . . .	\$0.33
8 x 10 " " "	5 x 7,	. . . . .	42
10 x 12 " " "	7 x 9,	. . . . .	57
11 x 14 " " "	6½ x 9½,	. . . . .	75

Easel for Bromide Enlargements.



THIS is a most convenient adjunct to an enlarging outfit, as it is so made as to fold into very small compass when not in use and to be firm and practicable in every way. It is made in two sizes, 32 x 42 and 42 x 64, and is easily taken apart for stowing away or transportation. Prices, \$9.00 and \$10.00, respectively.

Anthony's Amateur Albums.

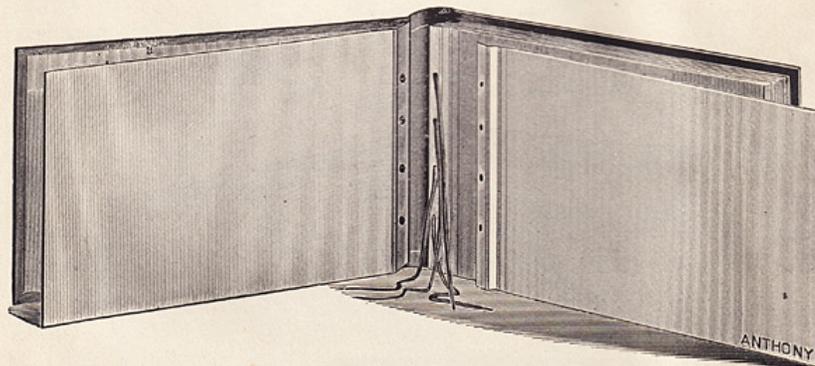


FOR preserving prints from negatives of one's own work, these Albums form a handsome and interesting addition to the library table. They are very beautifully bound in cloth, with gilt stamp on side,

the corners being finished with leather. The purest quality of card-board is used in their manufacture, made expressly for mounting photographs and free from any chemicals injurious to prints.

Size of Card.	Plain, each.	With Gilt Lines, each.	Covered with Silk Plush, with Gilt Lines and Gilt Edge, each.
5 x 6 for 3½ x 4½ pictures . . .	\$1.00	\$1.25	\$2.50
6 x 7 " 4 x 5 " . . .	1.10	1.50	—
7 x 10 " 5 x 8 " . . .	1.30	1.70	3.50
10 x 12 " 6½ x 8½ " . . .	1.95	2.36	—
11 x 14 " 8 x 10 " . . .	2.40	2.80	5.00

The 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—

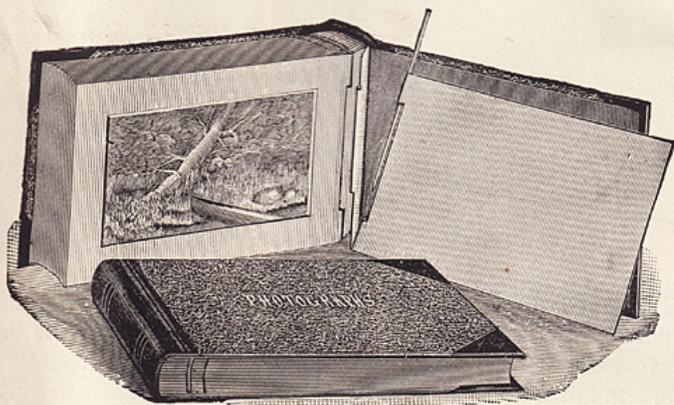
Size of Cards.	Price.
6 x 7	\$1.25
7 x 10	1.50
10 x 12	2.25
11 x 14	2.50

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.
5 x 6	\$1.35
6 x 8	1.45
7 x 10	2.00
10 x 12	2.75
11 x 14	3.00
14 x 17	5.75
16 x 20	7.25

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.

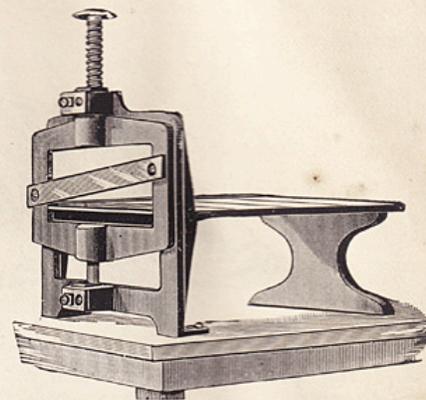
No. 1, 6 x 7 cards, for 4 x 5 photographs,	\$2.25
" 2, 7 x 10 " 5 x 8 "	2.50
" 3, 10 x 12 " 6½ x 8½ "	3.75
" 4, 11 x 14 " 8 x 10 "	4.25

Catalogue for Amateurs.

Trimming and Cutting Machine for Photographers' Use.

HAS been devised for the use of photographers, in trimming prints, cutting paper cards, tintype plates and in many other uses of a similar nature.

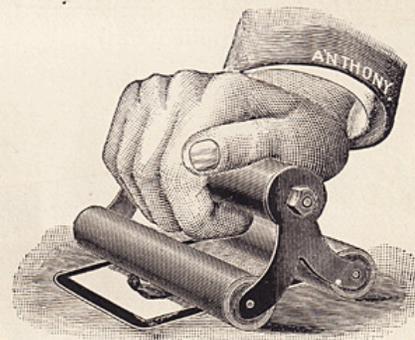
The prime features of its advantages are: An adjustable knife carriage having an easy and accurate action, with shearing cut. A table rest for material being cut. An accurate scale for obtaining uniformity in size. An absolute right-angle gauge for squaring prints, etc. A mechanical construction making it impossible for knife to run off, slip or tear prints, etc.



The old method of trimming prints by means of a "former" glass, and tintypes by use of shears, is far from satisfactory, as most photographers will testify, being slow and frequently resulting in utter destruction of the material. All these annoyances and difficulties are obviated by using this cutter. In architectural work the straight line side is cut first, which is then placed against the gauge, and print squared as desired. The machine is set complete upon a solid base, from which it can be detached and fastened to table as desired. All who have examined it and tested it speak very highly in its praise, owing to its general usefulness and cheapness.

No. 1, 6 in. clear cut,	\$5.00
" 2, 12 " "	7.00

The Success Print Mounter.



The above illustration describes it fully.

6 inch,	\$1.00	12 inch,	\$1.50
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The Climax Print Mounter.

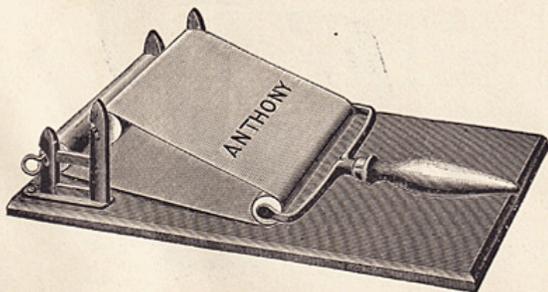


THIS article has been introduced as a convenient means of pressing prints on cards when mounting. It consists of a pair of rollers with a handle attached, a band of fine cotton cloth being wound around the rollers, the ends of the cloth being fastened one to each roller. Springs in the ends of each roller tend to turn them in opposite directions and thus the cloth is kept stretched across the intervening space, but may be rolled entirely from one roller on to the other or back without interfering with their action. Thus a fresh, clean portion of the cloth may be obtained whenever the portion in use becomes soiled by paste exuding from the sides of the print, or otherwise. When the band becomes entirely soiled it can be removed, washed and replaced.

For use, place the pasted print on the mount and draw the roller over it as shown in the cut; the pressure of the roller removing the air from under the print presses it securely to the mount. The cloth absorbs the moisture from the surface of the print without displacing it and leaves it perfectly smooth. Price, each, \$1.50.

Allderige's Print Mounter.

(Patent applied for.)

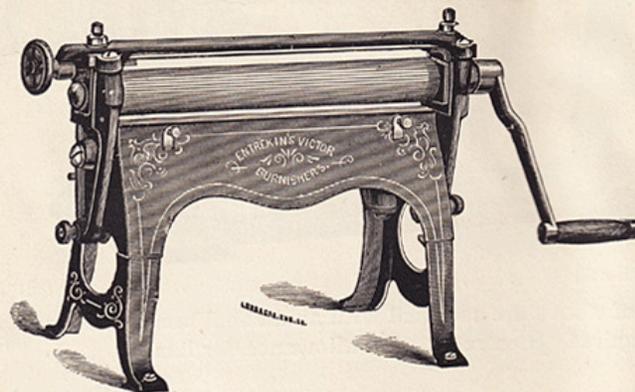


AS will be seen, this consists of a base, on which is mounted a framework supporting two rollers, while a third is propelled forward

and back by means of the handle. The upper one is a spring roller, and as the mounting roller is moved, releases or takes up the muslin, keeping it taut. The lower roller does not revolve, but holds the supply of muslin, and as fresh cloth is wanted it is raised from its bearings and a sufficient quantity unwound. The spring roller takes up all this extra cloth and serves for a large quantity of prints.

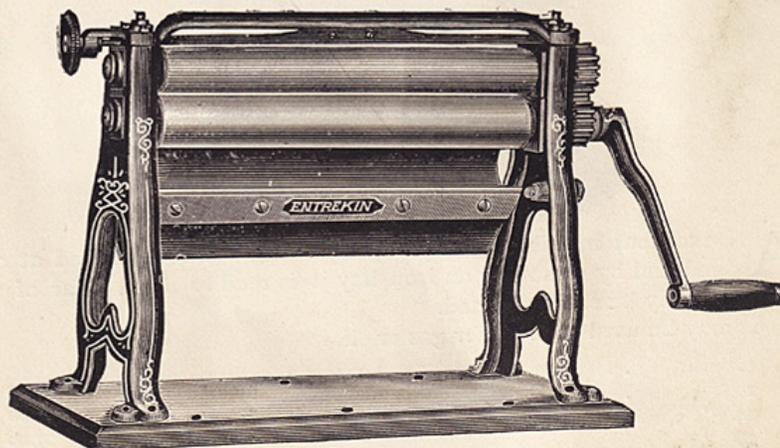
Price, complete, \$1.50

Entrekin's Victor Burnisher.



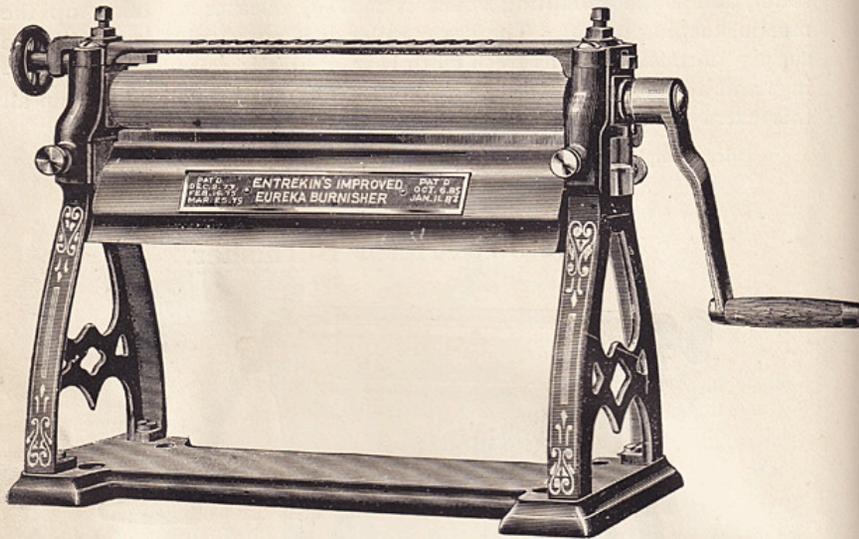
8 inch roll, \$8.00

Entrekin's Accurate Burnisher.



8 inch roll, \$10.00
 " with turn back roll, 12.00

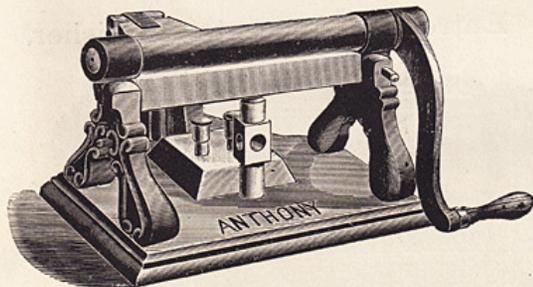
Entrekin's Improved Eureka Burnisher.



8 inch roll, \$13.00.

ALL of above are supplied with an alcohol lamp. If a gas-burner is required, \$1.00 extra. No allowance for lamp.

Climax Champion Improved Burnisher.



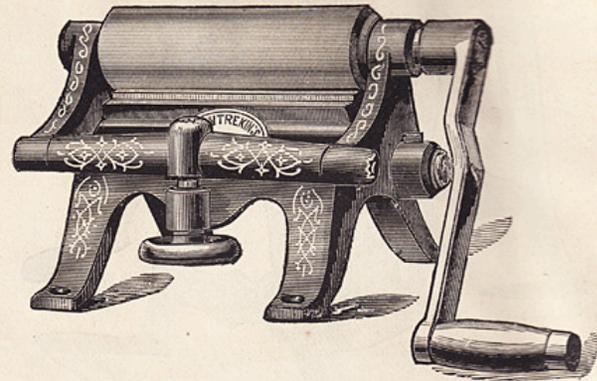
AN excellent machine at a low price. The roller is hinged at one end and by removing an iron key it is readily lifted clear of the base and may be easily cleaned.

It may be used with either gas or oil.

6 inch,	. . . . .	\$8.00
10 "	. . . . .	16.00
14 "	. . . . .	27.00
18 "	. . . . .	34.00
22 "	. . . . .	40.00

Entrekin's Eureka Burnisher.

THE superiority of the Eureka Burnisher consists in its cheapness simplicity and effectiveness, and the impossibility of the machine, getting out of order.



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

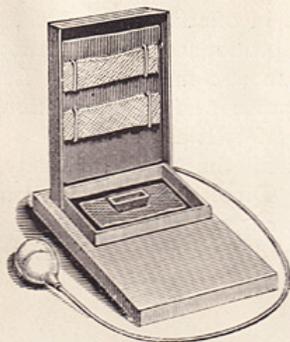
To dress the burnishing tool, the roll is simply turned back from the tool in an instant. No hot plates to handle, and consequently no burnt fingers.

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

6 inch Roll,	\$13.00	14 inch Roll,	\$30.00
10 " "	20.00	20 " "	50.00

The Reeves Magnesium Flash Lamp.

(Patent applied for.)



REFERENCE to the cut shows its simplicity and easy method of using. The rimmed back, 7 x 9½ inches in size, holds horizontally two wicks, the pan below has other wicks or pads of cotton wool, surrounding the bowl of an ingeniously shaped brass blow pipe, to which is attached rubber tube and bulb. To use it, the pipe is charged with powdered metallic magnesium, a small quantity of alcohol poured on the wicks, which, when lighted, give a very large flame (the width of the back and several inches higher), pressure on the bulb fires the magnesium through the blaze, the result being a flash of tremendous size and actinic power. Then the back, which is hinged, is shut down, at once extinguishing the blazing alcohol. There is no smoke, and there being no reservoir for alcohol, there is absolutely no danger of explosion. The bowl of the blow-pipe is so designed that it spreads the magnesium in a fan-like shape through all parts of the flame, using only about twelve grains of powder. Inside the hinged back are hooks to fasten the wicks, also a false back with curved bottom to convey the superfluous alcohol from upper wicks into lower pan. The back has spring to set it at any angle; there is a guard or fender to blow-pipe to prevent it over-heating, and cover for same. The whole is well and strongly made throughout of Russia iron, neatly mounted on metal-covered board, packed in box.

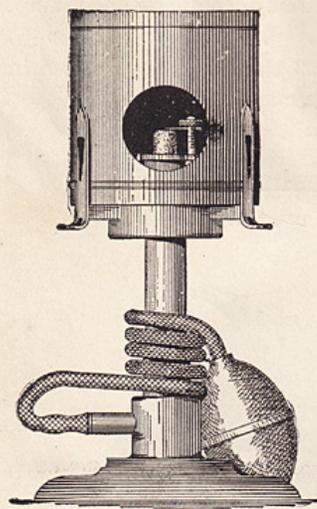
Full instructions inclosed with lamp.

Price, complete, including rubber tube and bulb, wicks, etc., . . . \$3.00

CAUTION.—Do not use any of the so-called flash powders in this or any other form of lamp, but only pure magnesium.

The Safety Flash Igniter.

(Patent applied for.)



THIS IGNITER may be used for either Compound Flash Powders, Magnesium Cartridges or pure Magnesium Powder on a substratum of Flash Cotton.

It is safe, reliable and simple in construction, consisting of a carbon heat arranged under a receptacle for the cotton and magnesium, the latter being fired by pressure of rubber bulb which forces the flame upward.

It may be used with long or short tube and is perfectly under the control of operator.

Price, including box of scented carbons, rubber bulb and 3 feet of rubber tubing, complete in wooden box, \$4.00. Extra boxes of prepared and scented carbons, enough for over 100 exposures, 25 cts. Extra rubber tubing in lengths up to 50 feet, 5 cents per foot.

Imperial Magnesium Flash Lamp.

(Patent applied for.)



THE simplicity of construction and manipulation of this lamp, enabling all to use it with the utmost ease and certainty of result, will at once commend it to both the professional and amateur. The

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

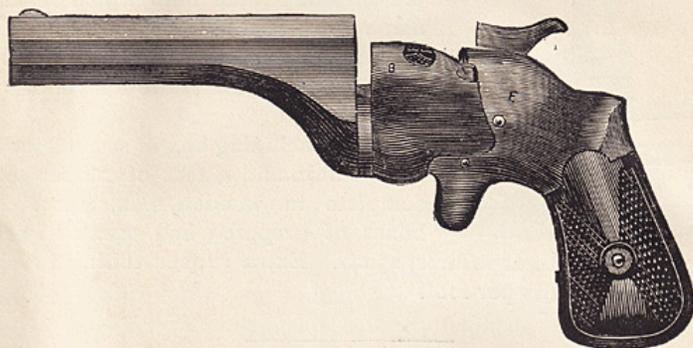
Price, \$6.00

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

Photogenic Pistol and Magnesium Cartridges

For instantaneous photography at night.

(Patent allowed.)



THE remarkable results obtained by using Photogenic Cartridges, fired from a pistol, have induced us to place them upon the market. Each cartridge will give sufficient light for an ordinary exposure or small group. They contain no chlorate of potash and can be handled without danger.

Pistols, each, \$4.00 | Cartridges, per box of 15, . . . \$1.00

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, 50 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 potash—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*.

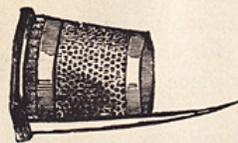
Price, per ounce, 50 cts.

Elastic Felt Printing Pads.

FOR USE IN THE PRINTING FRAME, they insure contact of the negative and paper and lessen the liability of breakage. They are superior to anything heretofore offered, and at following moderate prices. They are put up in boxes of one dozen each.

For	Dozen.	For	Dozen.
3½ x 4½ Printing Frame,	\$0.35	10 x 12 Printing Frame,	\$2.40
4 x 5 “ “	40	11 x 14 “ “	3.00
4½ x 5½ “ “	45	14 x 17 “ “	5.00
4½ x 6½ “ “	60	16 x 20 “ “	7.00
5 x 7 “ “	70	17 x 20 “ “	7.50
5 x 8 “ “	80	18 x 22 “ “	9.00
6½ x 8½ “ “	1.08	20 x 24 “ “	9.75
8 x 10 “ “	1.75		

The Efficient Plate Lifter.



THIS PLATE LIFTER is very nearly like an ordinary open-end thimble with a pointed piece of metal soldered securely to it, as shown in the illustration. Where a number of plates are developed in one dish, this plate lifter is not only a convenience, but quite a necessity. Price, 15 cents each.

Squeegees. (Velvet Rubber.)

For insuring the exclusion of air and obtaining perfect contact of prints with hard rubber plates or prepared glass, in the process of making glacé prints with bromide paper, aristotype paper, etc., etc.

6 inch, . . . 40 cts. | 8 inch, . . . 50 cts. | 12 inch, . . . 75 cts.

Photographers' Note Book.

THE MOST compact and simple for recording exposures, and containing perforated sheet numbers for 288 negatives, with pages for recording number of holder, progressive number, date, subject, time, lens, focus, diaphragm, time of day, plate, and general remarks. Neatly and strongly bound, measuring 3 x 4 1/4 inches.

Price, including pencil, each, 25 cts.

Artist's Cuffs.

(For Photographers' use.)



TO PREVENT soiling the sleeves and cuffs while developing negatives.

Price, 50 cents per pair.

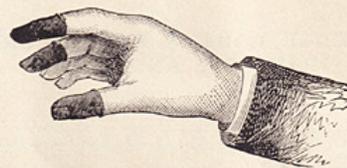
Rubber Gloves.

JUST the thing to keep pyrogallic acid off the hands of those who prefer the pyrogallic developer.



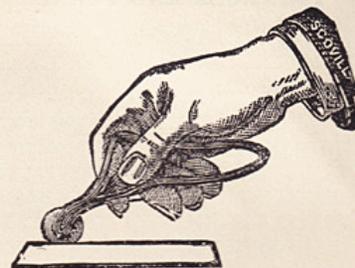
Sizes, ladies' long, Nos. 7, 8 and 9, per pair,	. . . . .	\$1.50
" " short, " " "	. . . . .	1.25
" gents' long, " 12, 13 and 14, "	. . . . .	1.65
" " short, " " "	. . . . .	1.35

Pure Rubber Finger Tips.



Price, per set of three, 15 cts.

Photograph Trimmers.



Straight, each, 20 cts. | Revolving, each, 30 cts.

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

Catalogue for Amateurs.

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" 9. Boudoir (5¼ x 8½) or 5 x 8	1.35
" 9. 3½ x 4½	.55
" 9. 4½ x 5½	.75

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PRIMROSE AND PEARL.

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" 106. Cabinets, size 4½ x 6½	1.10
" 26. Boudoirs (5¼ x 8½) or 5 x 8	2.50
" 106. Carré, size 3 x 3	.80
" 26. 3½ x 4½	1.15
" 26. 4½ x 5½	1.40
" 26. 5 x 7	2.20
" 26. 6½ x 8½	3.60
" 26. 8 x 10	5.50

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DARK COLORS.

No. 127. Cartes de Visite, size 2½ x 4½, maroon	.70
" 66. " " " black	.70
" 114. Cabinets, size 4½ x 6½, maroon	1.20
" 66. " " " black	1.30
" 65. Boudoir (5¼ x 8½) or 5 x 8, maroon	2.75
" 26. " " " black	2.85
" 65. Carré, size 3 x 3, maroon	.80
" 65. 3½ x 4½, maroon	1.10
" 26. " " " black	1.25
" 65. 4½ x 5½, maroon	1.40
" 26. " " " black	1.55
" 65. 5 x 7, maroon	2.40
" 26. " " " black	2.50
" 67. 6½ x 8½, maroon	3.88
" 26. " " " black	3.88
" 67. 8 x 10, maroon	6.13
" 26. " " " black	6.13

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Citric, c. b., per oz., 12 cents; per lb.	.90
Formic, g. s. b., per oz.	.25
Gallic, c. b., per oz.	.20
Hydrobromic, g. s. b., per oz.	.20
Muriatic, C. P., g. s. b., per lb.	.45
Nitric, com., g. s. b., per 7 lb. bottle	1.25
" " " per lb.	.30
" C. P. " " "	.45
" " " per oz., 12 cents; per ½ lb.	.30
Oxalic, c. b., per oz., 10 cents; per lb.	.30
Pyrogallic, E. A., c. b., per oz. bottle	.35
" " " per ½ oz. bottle, about 47 5-grain tablets	.40
" " " " oz. can	.35
" " " " 4 oz. can	1.15
" " " " 8 " "	2.10
" " " " 16 " "	4.25
" " " " 5 lb. "	@ 4.00

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THE CRAMER DRY PLATE CO. THE ST. LOUIS DRY PLATE CO.

And Many Others.

See that it has the E. A. Trade Mark.

Put up in 5 gr. tablets ½ oz. in bottle.

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" 4 " "

" 8 " "

" 16 " "

" 5 pound "

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Cooper's Concentrated Developer, which is found to work so well on all kinds of



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Tartaric, bottle included, per lb.	.80
Albumen , dry, per oz.	.15
Alcohol , Attwood's, 95 per cent. c. b., per pint.	.50
Quart, 90 cents; $\frac{1}{2}$ gallon, \$1.80; gallon, \$3.00, no bottle.	
Alum , Powdered, per lb.	.15
Chrome, per lb., in bottle	.30
Ammonia , Sulph. Cyanide, per oz.	.30
Ammonium , liq. conc., g. s. b., $\frac{1}{2}$ lb. bottle, 25 cents; lb. bottle, 35 cents; 4 lb	.95
Iodide, Anthony's C. P., per oz.	.45
Bromide, Anthony's C. P., bottle included, per oz., 15 cents; per lb.	.85
Bichromate, c. b., bottle included, per lb.	3.00
Carbonate, c. b., bottle included per lb.	.60
Chloride, c. b., bottle included, 1 oz., 10 cents; 8 oz., 30 cents; per lb.	.45
Hydrosulphate, c. b., bottle included, per 5 lb.	2.60
Nitrate, fused, c. b., per oz., 10 cents; 1 lb. bottle.	.50
Sulphocyanide, c. b., bottle included, per oz.	.25
Barium , Nitrate, c. b., bottle included, per oz., 10 cents; per lb.	.55
Carbonate, c. b., " " 15 " "	1.50
Chloride, c. b., " " 10 " "	.55
Benzole , extra quality, c. b., bottle included, per pint.	.70
Borax , per lb.	.25
Bromine , packed in tin, g. s. b., bottle included, per oz.	.25
Cadmium , Bromide, c. b., bottle included, per oz.	.25
Iodide, c. b., bottle included, per oz.	.50
Chloride, c. b., bottle included, per oz.	.50
Calcium , Chloride, c. b., bottle included, per oz., 13 cents; per $\frac{1}{2}$ lb. bottle.	.35
Iodide, g. s. b., bottle included, per oz.	.55
Bromide, g. s. b., bottle included, per oz.	.35
Chloroform , c. b., bottle included, 1 oz. bottle, 13 cents; per lb. bottle.	1.50
Copper , sulph., C. P., c. b., bottle included, per lb.	.55
Acetate, c. b., bottle included, per oz.	.15
Chloride, c. b., bottle included, per oz.	.15
Developer , H. T. A., per package of $\frac{1}{2}$ lb., 8 cents; $\frac{1}{2}$ lb.	.15
Anthony's Economical, for dry plates, per $\frac{1}{2}$ lb. bottle	.40
Cooper's Concentrated, " " " 50 cents; 1 lb. bottle	.90
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Newton's Giant, " " " 30 cents; 1 lb.	.55
Dermaline , to protect the hands, per bottle.	.25
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Glycerine , C. P., c. b., bottle included, oz. 15 cents; per lb.	.60
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Mastic, per lb.	2.25

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Hydrochinone , E. A., per oz.	.60
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E. A. Tablets, per $\frac{1}{2}$ oz., about 54 4-grain tablets	.50
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" pure, c. b., bottle included, per lb.	.60
" and Ammonia, per lb.	.15
Iodide, g. s. b., per oz.	.40
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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
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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
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Iodide, g. s. b., bottle included, per oz.	.75
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Palladium , Sodio-chloride, c. b., 15 grains.	1.00
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Sulpho-cyanide, per oz.	.30
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" per $\frac{1}{2}$ oz. bottle, about 106 2-grain tablets	.20
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Bichromate, C. P., c. b., bottle included, per lb.	.90
" com., in paper, per lb.	.27
Carbonate, per lb.	.25
Chlorate, bottle included, per lb.	.40
Chloride, " " "	.65
Cyanide, c. b., bottle included. $\frac{1}{2}$ lb. bottle, 25c; $\frac{1}{2}$ lb. bottle 35c; per lb.	.65
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