

Photographic Materials.

Illustrated.

John Wanamaker,
Philadelphia.

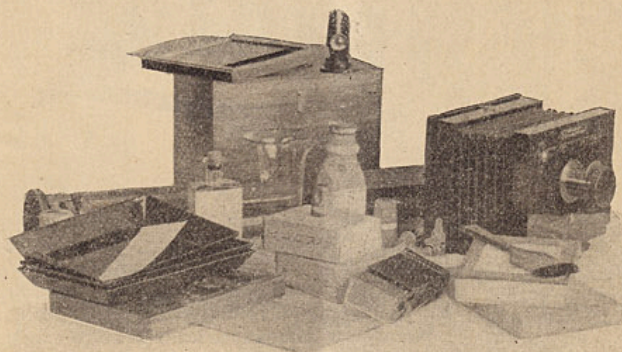
Cameras, Chemicals, Developing Outfits,
Kodaks, Lenses, Dry Plates, Printing
Apparatus, Shutters, Tripods.

Times Printing House
Philadelphia

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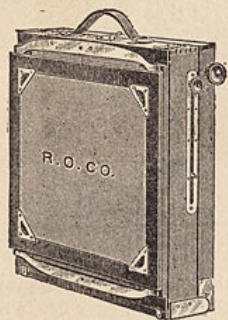
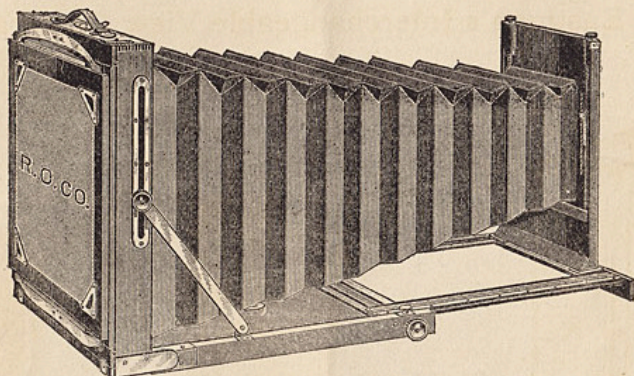
Young men and young women have taken up Photography as a diversion. They find a good deal of pleasure in it, and make as good pictures as anybody.

A few years ago the amateur photographer either had a wagon with a dark closet or carried a dark tent, in addition to numerous bottles of chemicals. To take a picture meant to mix the proper chemicals in the dark, coat a glass plate with them, and quickly, before it dried or crystallized, expose it in a camera, mix other chemicals, develop, wash, and dry it on the spot, with perhaps a picture, perhaps not.

Now most of the judgment and skill part is done in a factory, and plates need not be fresh made for every picture. They're sold in dozen packages, ready any instant, and will keep for years. Chemicals for developing are sold already mixed, and any boy or girl of ten, with average intelligence, can use them.

At Wanamaker's you can get any of the needed apparatus—the best of all that's made—and at money-saving prices. The following pages tell of many of the things in this line that we sell. There are many other things, of course: if you want to know the Wanamaker prices of any of these let us know and we will cheerfully furnish them.

The Universal Camera



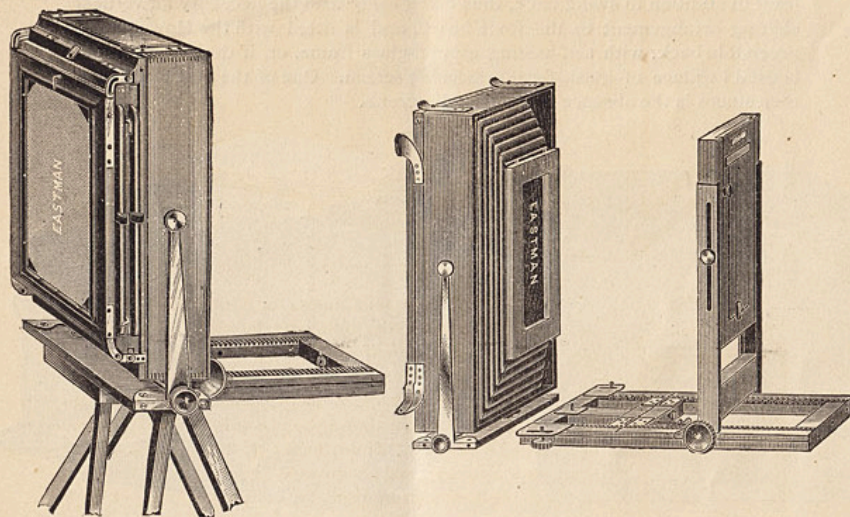
The Universal Camera is a modified English pattern, and is very compact, the 5 x 8 being but 2½ inches thick when folded and weighing but 5 pounds. It has extra long bellows, the 5 x 8 having a focal capacity of 19 inches and other sizes in proportion; this allows the use of lenses of extreme length of focus, while lenses of the shortest focus can also be used; owing to the length of bellows the camera can be used for copying if desired, and in fact is as near a *universal* camera as can well be made. It has reversible back with spring-acting ground-glass frame, by which the plate-holder is inserted between the ground-glass and camera-back. The camera is made with both single and double swing, has rising and falling front controlled by a spring acting in a ratchet, doing away with milled heads; the forward end of bellows is attached to the front and slides with it, thus avoiding a possibility of cutting off the rays of light. The camera-box is made of selected mahogany, highly polished, with all metal work of brass, polished and lacquered.

While very compact, the Universal is very simple of manipulation, there being no loose screws or parts, and is set up by tightening four milled heads and is folded by loosening the same number. It is provided with a leather handle, so that it may be carried without the case if desired, as one holder can be carried between the ground-glass and camera-back. Price includes Canvas Carrying Case, one Perfection Plate-holder, and Combination Tripod, but no Lens.

Size of View.	Single Swing.	Double Swing.
4 x 5	22.50	24.50
5 x 7	30.00	31.50
5 x 8	32.50	34.50
6½ x 8½	36.00	39.00
8 x 10	41.00	43.50

Eastman's Interchangeable View Camera

Reversible Back



In the Eastman Camera lightness, rigidity, strength, compactness, and fine finish are combined in an unusual degree. The front is provided with two means for raising the lens, a movable front board of the usual construction, and an adjustable front, by means of which the whole front of the camera carrying the bellows can be raised and lowered at will, giving *double* the usual range of adjustment.

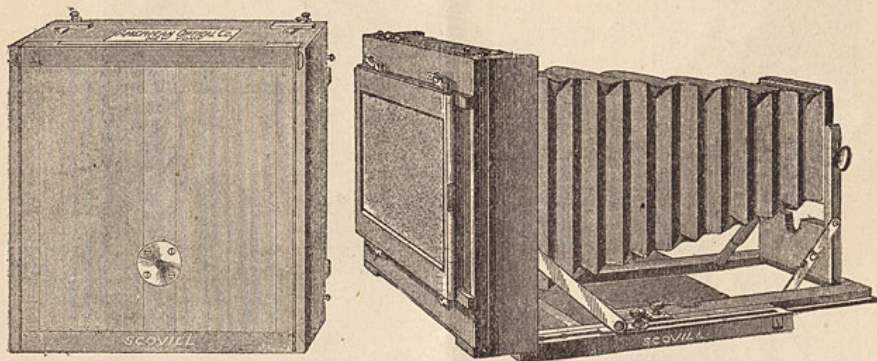
In the interchangeable body and bed the thumb-screws in the bed which control the vertical swing are so arranged that, when unscrewed, the body can be lifted from the bed, and the bellows detached from the front by turning a button; this feature permits the substitution of one body for another of a different size on the same bed. This enables a photographer having a camera of any given size, at any future time to obtain a back for any other size which will fit on the same bed, and for only half the price of a new camera.

The movement of double rack and pinion for focusing is smooth and easy, the rack and pinions being *cut*, not cast. The camera body is of the best selected French mahogany, finely polished. These cameras are not intended to compete with cheap goods, but to supply a first-class camera of the finest possible workmanship at a moderate price.

Size of plate,	4¼ x 5¼	5 x 7	6½ x 8½	8 x 10	10 x 12
Price,	24.00	29.00	32.50	36.00	45.00

The Irving Camera

The Irving Camera, recently introduced by the American Optical Company, is very complete, compact, light, and serviceable. It has swing front in addition to swing back, thus doing away with the necessity for vertical shifting arrangement to the front board, and is fitted with the Howe patent reversible back, with self-locking ground-glass frame, or, if desired, celluloid is used in place of glass for the focusing screen. One of the best features of the camera is the absence of detachable screws.



The 5 x 8 size camera with plate-holder and ground-glass in frame weighs only 3 pounds. Without holder, but with celluloid focusing screen, the weight is not more than 2 pounds.

Price includes Canvas Carrying Case and one Plate-holder, but no Tripod or Lens.

Size of plate,	4 x 5	5 x 7	5 x 8	6½ x 8½	8 x 10
Price,	24.50	30.00	31.50	36.00	41.00

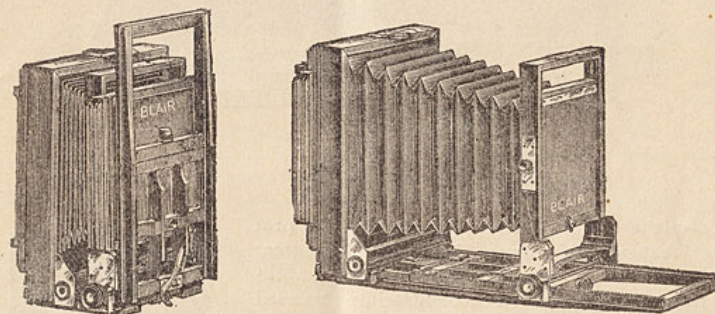
The St. Louis Reversible Back Camera

The detachable carriage for the plate-holder at the back allows the plate-holder to be reversed or set for either an upright or horizontal picture without removing the holder from the carriage. An automatic latch enables the operator to insert the plate-holder without holding back the ground-glass frame. In addition there is a fine rack-and-pinion movement and a patent latch for making the bed rigid instantly. The bed on the larger sizes is made in two sections, so that a portion may be removed when a short focus lens is used.

Price includes Canvas Carrying Case and one Daisy Plate-holder with patent registering slide.

Size of Plate.	Single Swing.	Double Swing.
4 x 5	22.50	26.00
5 x 7	29.00	32.00
5 x 8	31.00	34.00
6½ x 8½	32.00	35.00

Blair's Improved Reversible Back Cameras



These cameras are made of the best selected mahogany, well seasoned, highly polished, with nickel trimmings (brass trimmings to order) and are very light and compact.

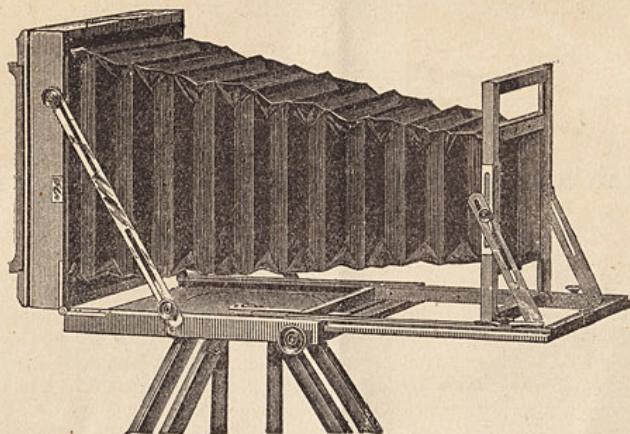
The focusing is achieved by the front of the camera and lens moving forward by a fine rack-and-pinion movement. By this method of construction and the reversible back, the slide from the plate-holder can be drawn to the right or left when in a horizontal position, or when changed to a vertical position can be drawn upward or downward. The reversing of the back (to enable the operator to make upright views) is accomplished by simply pressing a spring and changing the adjuster carrying the holder from vertical to horizontal. The sliding front is arranged so that the entire front, with bellows attached, slides up or down, and is held rigid by the adjusting screw.

The bed is made in three sections, the outer one removable for all ordinary work, as this section will not as a rule be required in the field. The tripod can be attached in two different places, thus allowing the camera to be properly balanced on the tripod when using lenses of extra focal length or when using an extension.

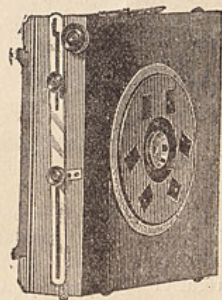
Price includes one Feather Weight Plate-holder and Carrying Case, but no Tripod or Lens.

Size of Plate.	Single Swing.	Double Swing.
4 x 5	20.50	22.50
5 x 7	27.50	29.50
5 x 8	31.00	33.00
6½ x 8½	31.00	33.00

Blair's English Compact Reversible Back Cameras



As the title indicates, compactness is the principal feature of this camera. While combining great lightness with rigidity, simplicity, and ease of working, there is every convenience and facility possessed by any other camera, with several new movements and devices peculiar to this camera alone. The camera when closed measures in thickness in the 5 x 7, 5 x 8, or 6½ x 8½ size ¾ inches; in the 8 x 10 size 4 inches. The partial front view of the camera folded shows the sunken tripod top, with clamping screw in centre, bored to receive a regulation tripod screw, thus enabling the operator to use any other form of tripod than that supplied with the camera.



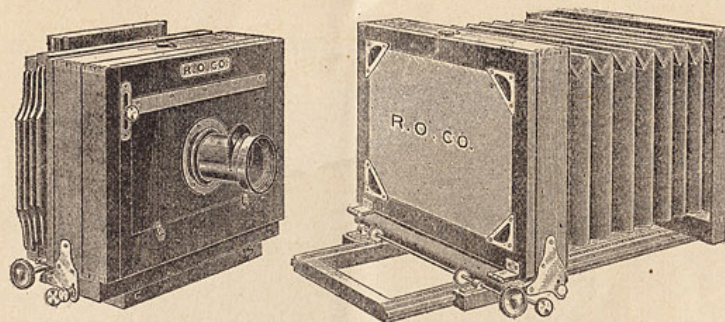
Price includes Tripod, Carrying Case, and one Feather Weight Plate-holder, but no Lens.

Size of plate,	5 x 7	5 x 8	6½ x 8½	8 x 10
Price,	41.00	45.00	45.00	50.00

New Model Cameras

New Model—Very light and compact; made of selected cherry, well finished, with nickel trimmings; provided with sliding front and folding bed, and is easily reversed for upright pictures; the folding part of the bed is held rigid by a new clamp hook, quick, easy, and most effective. Price includes Single Achromatic View Lens, Standard Folding Tripod, Carrying Case, and one Perfection Plate-holder (except 8 x 10, with which neither lens nor tripod is included.)

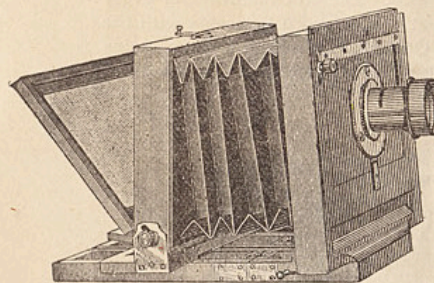
Size of plate,	4 x 5	5 x 7	5 x 8	6½ x 8½
Price,	10.80	12.60	12.60	14.40



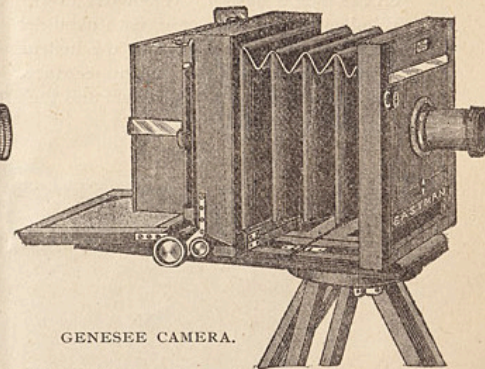
New Model Improved—Similar to the New Model, but made of mahogany, highly polished, with nickel trimmings; has sliding front and folding bed and is reversible by means of a new adjustable reversing clamp; has rack-and-pinion focusing movement; the folding part of the bed is held rigid by a new clamp hook. Price includes Single Achromatic View Lens, Carlton Sliding Tripod, Carrying Case, and one Perfection Plate-holder (except 8 x 10, with which neither lens nor tripod is included).

Size of plate,	4 x 5	5 x 7	5 x 8	6½ x 8½
Price,	12.60	16.20	16.20	19.80

Favorite and Genesee Cameras



FAVORITE CAMERA.



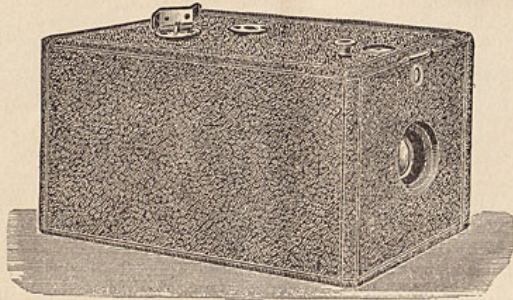
GENESEE CAMERA.

Favorite—Well made, with vertical shifting front, single swing movement, folding platform with patent latch for making bed rigid instantly. Price includes Waterbury Lens with revolving diaphragm, Folding Tripod, Carrying Case, and one Scovill Plate-holder with patent registering slides.

Size of plate,	4 x 5	5 x 7	5 x 8	6½ x 8½
Price,	9.50	10.80	10.80	14.40

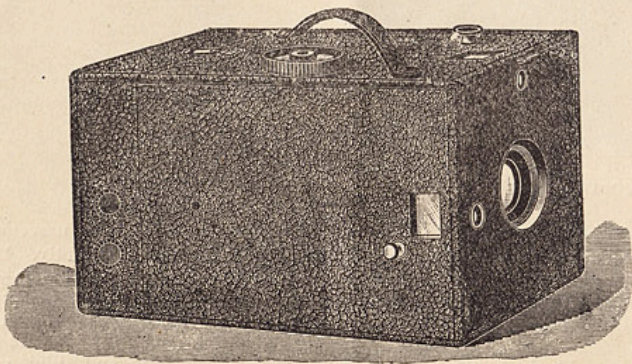
Genesee—Finely made of mahogany, with brass rack and pinion for focusing, extra lens board and a reversing board, that forms a rigid support for both the front and back frames of the camera when taking vertical views. Price includes Lens, Improved Tripod, Canvas Carrying Case, and one Plate-holder.

Size of plate,	5 x 7	5 x 8	6½ x 8½
Price,	16.00	17.00	21.00
With Roll Holder for films,	27.50	28.50	36.00

Kodak Cameras

NO. 2 KODAK.

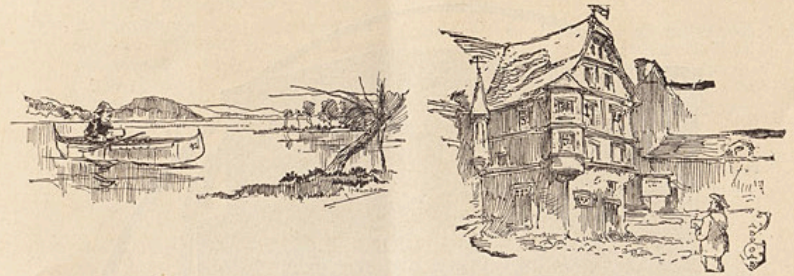
To-day the modern Aladdin, instead of a lamp, carries a Kodak, and when he wishes his photographic genius to appear, takes it out, presses the button, and a scene of beauty is sun painted on the transparent film within. The Kodak is an oblong box covered with fine, black morocco, having in one end a lens aperture, on the top a folding key, a cord and a revolving disc, and on the side a button. When not in use it is enclosed in a neat hand-sewed sole-leather carrying case with shoulder strap. The workmanship in every part is of the very best, and the instrument will compare favorably with the finest field glass in finish and appearance. One end of the Kodak box contains the lens and shutter mechanism and the other end the roll holder for operating the band of sensitive film.



NO. 3 KODAK.

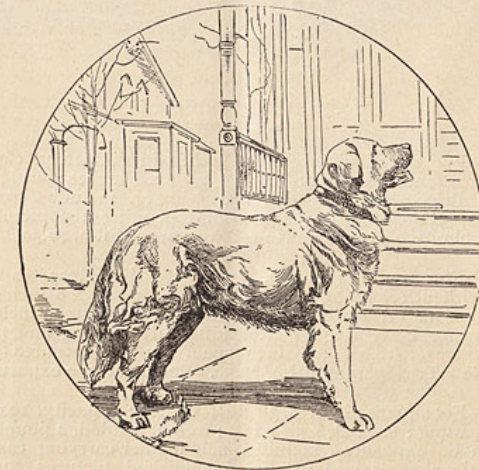
The uses of the Kodak are numberless, and the little pictures it takes are more tangible than mere memories of the pretty nooks you come across in

your rambles. You can have photographs of your pet animals in all their playful and interesting attitudes. On your picnics you can have pictures of



KODAK PICTURES.

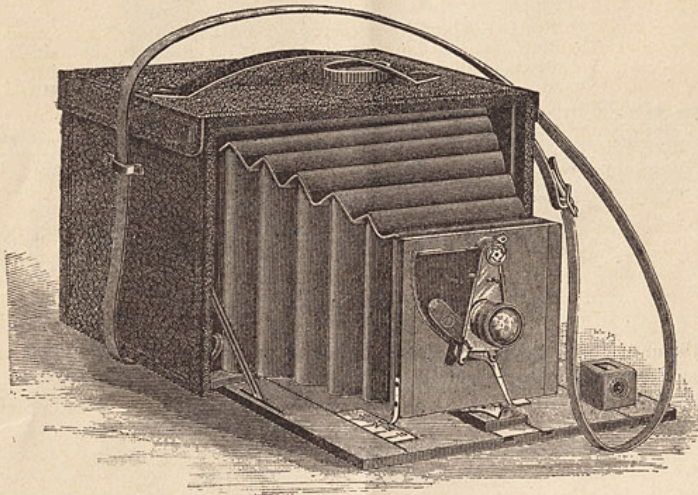
all your friends. Anything you see that you think would be interesting or instructive, snap goes your Kodak, and the scene or view is captured.



A KODAK PICTURE.

Suppose you are thinking of building a house. You take your Kodak: all the attractive features of the different homes you visit you take views of.

When you get a number of these beautiful and home-like pictures you make your plans from them. Thus engineers and architects can make the Kodak very valuable to them.



NO. 5. FOLDING KODAK.

No. 1 Kodak.—For round pictures, $2\frac{1}{2}$ inches in diameter; capacity, 100 exposures without reloading; size $3\frac{1}{4} \times 3\frac{3}{4} \times 6$ inches; weight loaded, 1 lb. 8 oz. Price, loaded with 100 exposures, including sole leather case, \$25.00. Reloading, developing and printing 100 pictures, \$10.00. $2\frac{3}{4}$ inch spool of 100 exposures New Transparent Film, \$2.50.

No. 2 Kodak.—For round pictures, $3\frac{1}{2}$ inches diameter; capacity, 100 exposures without reloading; size of camera, $4\frac{1}{2} \times 5 \times 9$ inches; weight loaded, 2 lbs. 12 oz. Price, loaded with 60 exposures, including sole leather carrying case, \$32.50.* Reloading, developing and printing 60 finished pictures, \$10.00. $3\frac{3}{4}$ inch spool for 60 exposures $3\frac{1}{2}$ inches diameter, New Transparent Film, \$2.50. Spool for 100 exposures, \$4.25.

No. 3 Kodak.—For square pictures, $3\frac{1}{4} \times 4\frac{1}{4}$ inches; capacity, 100 exposures without reloading; size, $4\frac{1}{4} \times 5\frac{1}{2} \times 11\frac{1}{2}$; weight loaded, 4 pounds. Price, loaded with 60 exposures, including sole leather carrying case, \$40.00.* Reloading, developing and printing 60 finished pictures, \$10.00. $4\frac{1}{4}$ -inch spool for 60 exposures $4\frac{1}{4} \times 3\frac{3}{4}$ Transparent Film, \$2.50. Spool for 100 exposures, \$4.25.

No. 3 Kodak Junior.—For square pictures, $3\frac{1}{4} \times 4\frac{1}{4}$ inches; capacity, 60 exposures without reloading; size of camera, $4\frac{1}{4} \times 5\frac{1}{2} \times 9$ inches; weight loaded, 3 pounds. Price, loaded with 60 exposures, including sole leather carrying case, \$40.00. Reloading, developing and printing 60 finished pictures, \$10.00. $3\frac{3}{4}$ -inch spool for 60 exposures $3\frac{1}{4} \times 4\frac{1}{4}$ Transparent Film, \$2.50.

* The price includes spool of 60 exposures, but the camera will take a spool of 100 exposures.

No. 4 Kodak.—For 4×5 square pictures; capacity, 100 pictures without reloading; size of camera $5 \times 6\frac{1}{2} \times 12\frac{3}{4}$ inches; weight loaded, $4\frac{1}{2}$ pounds. Price, loaded with 48 exposures, including sole leather carrying case, \$50.00.* Reloading, developing and printing 48 finished pictures, \$10.00. 5-inch spool for 48 exposures 5×4 , New Transparent Film, \$3.00. Spool for 100 exposures, \$6.25.

No. 4 Kodak Junior.—For square pictures 4×5 ; capacity, 48 exposures without reloading; size of camera, $5 \times 6\frac{1}{4} \times 10\frac{1}{2}$ inches; weight loaded, $3\frac{1}{2}$ pounds. Price, loaded with 48 exposures, including sole leather carrying case, \$50.00. Reloading, developing and printing 48 finished pictures, \$10.00. 4-inch spool for 48 exposures 4×5 , New Transparent Film, \$3.00.

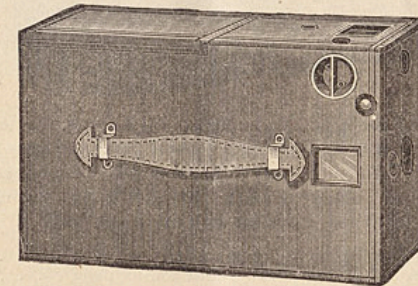
No. 4 Folding Kodak.—For square pictures, 4×5 inches; capacity, 48 exposures without reloading; size of camera (folded), $7 \times 5 \times 5\frac{1}{2}$ inches; weight loaded, 3 lbs. 9 oz. Price, complete with shoulder-strap, loaded with spool of 48 exposures, \$50.00. Reloading, developing and printing 48 finished pictures, \$10.00. 4-inch spool for 48 exposures, New Transparent Film, \$3.00.

No. 5 Folding Kodak.—For 5×7 pictures; capacity, 48 exposures without reloading; size of camera (folded), $6\frac{1}{4} \times 7 \times 9$ inches; weight loaded, $4\frac{1}{4}$ lbs. This camera is exactly the same as the No. 4 Folding Kodak except the size. Price, complete with shoulder-strap, loaded with spool of 32 exposures, \$60.00.† Reloading, developing and printing 32 finished pictures \$10.00. 5-inch spool for 32 exposures 5×7 New Transparent Film, \$4.00; spool for 54 exposures, \$6.00.

* The price includes spool of 48 exposures only, but the camera is capable of receiving a spool of 100 exposures.

† The price includes spool of 32 exposures only, but the camera will take a spool for 54 exposures.

The Hawkeye Camera



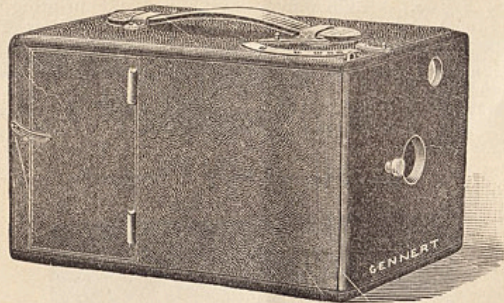
The Hawkeye is certainly an all-around camera, being extremely simple to operate. It can be used as a detective camera, a view camera, an instantaneous camera, or a magazine camera. With the Hawkeye it becomes possible to utilize either the glass dry plate, the cut film or celluloid plate, or the celluloid film in rolls for continuous exposure. Hawkeyes are all tested before leaving the factory and guaranteed in every way.

The Hawkeye may be set upon a tripod or any convenient resting-place for time exposures, the shutter being held open at the half-way catch and closed by means of button, obviating the use of a cap over the lens.

The Hawkeye camera, natural finish ash wood case, lacquered trimmings with one double plate-holder, 4×5 14.00
 Extra plate-holders for glass dry plates, each 1.00
 Extra plate-holders for film dry plates, each 1.00

Glass dry plates, 4 x 5, per dozen . . . . .	.60	
Film dry plates, 4 x 5, per dozen . . . . .	.90	
	48 Exposures.	100 Exposures.
The Hawkeye camera, as above, with Automatic		
Roll-holder, loaded with transparent film . . .	26.00	28.50
Additional rolls of transparent film	3.00	6.25
Developing and finishing	7.00	14.00
Developing only	4.50	9.00
Albums for Hawkeye photographs, holding 100		2.50
pictures		
Outfit for developing and printing		7.50
EXTRAS.		
Covered with black grain leather, oxidized		5.00
trimmings		
Fitted with Darlot R. H. lens		15.00
Fitted with Leverrier R. R. lens		17.00

The Montauk Camera



A neat and complete hand camera for taking snap-shots, interiors, exteriors, views, houses, portraits and groups. It will make pictures 4 x 5 inches on dry plates or films. It can be used by anyone, and cannot get out of order. It has a double rapid rectilinear lens, time and instantaneous shutter, and three double plate-holders. Covered with fine black leather.

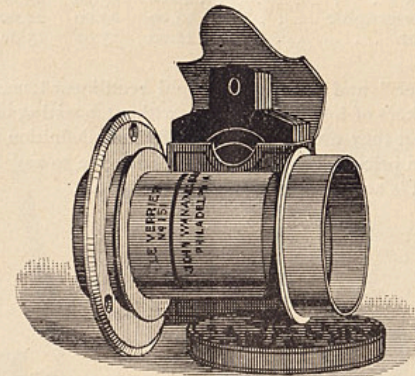
Price for 4 x 5 size, with plate-holders	22.50
4 x 5 size, " " and roll-holder	32.00
5 x 7 size, " "	37.00

The \$5.00 Detective Camera

This Detective Camera is constructed on the simplest principles and will be found to yield surprisingly good results. The outside case is of plain hard wood, varnished, with leather handle; and it is large enough to hold six double plate-holders. It is worked at a fixed or general focus, has a revolving shutter and a good landscape lens of ample size to give good definition. It takes a picture 4 x 5 inches in size.

Price, including one double plate holder, 5.00
Extra plate holders, each 1.25; by mail, 1.35

Lenses



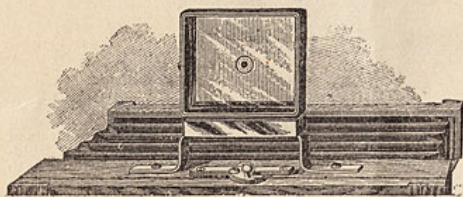
NOTE:—The lenses fitted to the cheaper cameras are what are termed single achromatic—that is, two separate lenses of different curvatures are cemented together with transparent balsam in such a way that the defects of one are partly corrected by the opposite defects of the other. These do very well for landscapes. For taking portraits and pictures of buildings or objects having many straight lines, a double combination of lenses is necessary to make the lines of the picture as straight and uniform as the original. Such a combination also permits using a larger diaphragm or hole of light in proportion to the size of the lens than the single achromatic, and consequently requires shorter exposure. It is, therefore, called "rapid rectilinear." Various persons claim priority in calculating the formula for this combination. All the makers use nearly the same formula—some with slight modifications. The formula being the same, the difference in lenses is in the makers' skill in producing exactly the curves and density of the glass indicated by the formula and in fine polishing and setting.

For general work and portraits	4 x 5 inches	5 x 7 inches	5 x 8 inches	6 1/2 x 8 1/2 inches	8 x 10 inches
Bausch & Lomb's Universal	26.00	32.00	32.00	40.00	55.00
Beck's Autograph	30.00	35.00	35.00	50.00	60.00
Dallmyer's rapid rectilinear	37.00	45.00	45.00	57.00	74.00
Darlot's rapid rectilinear	15.00	25.00	25.00	35.00	50.00
Leverrier rapid rectilinear	17.50	28.00	28.00	37.50	48.00
L'Etoile rapid rectilinear	10.00	15.00	15.00	21.00	27.00
Ross' rapid symmetrical	34.00	42.00	46.00	52.00	68.00
Steinheil's, Series III.	25.00	32.00	32.00	44.00	57.00
Voigtländer's Euryscope, Series IV.	27.00	45.00	45.00	52.00	65.00
Wray's rapid rectilinear	20.00	28.00	32.00	36.00	48.00
Alvin G. Clark	30.00	40.00	40.00	50.00	65.00
Gundlach's rapid rectigraphic	20.00	25.00	30.00	38.00	50.00
" star	12.00	15.00	15.00	18.00	22.00
Single achromatic view lenses					
Waterbury or R. O. Co.	3.50	4.50	4.50	6.00	8.00
Wide angle lenses, for interiors or buildings					
Abendroth's	15.00	20.00	20.00	25.00	25.00
Darlot's	12.50	15.00	20.00	25.00	25.00
Dallmyer's		36.00		45.00	61.00
Leverrier	15.00	20.00	20.00	25.00	30.00
Morrison's	25.00	25.00	25.00	25.00	30.00
Ross portable symmetrical	28.00	32.00	40.00	48.00	64.00
Steinheil's, Series II. antiplanat	28.00	37.00	37.00	48.00	60.00

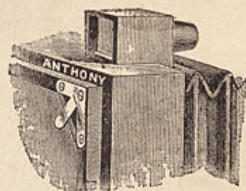
	4 x 5 inches	5 x 7 inches	5 x 8 inches	6½ x 8½ inches	8 x 10 inches
Zentmayer's	20.00	24.00	24.00	24.00	33.60
Wray's	20.00	22.00	24.00	32.00	40.00
Alvin G. Clark	20.00	25.00	25.00	30.00	40.00
Gundlach's perigraphic	16.00	24.00	24.00	30.00	40.00
" star	12.00	15.00	15.00	18.00	22.00

The "Leverrier" and "L'Etoile" rapid rectilinear lenses are made for us in Paris by makers of long experience; without boasting of their qualities we simply state that they are equal in rapidity and definition to other makes one-third higher in price. The lower price is not due to any lack of skill or care in making: it is so placed to introduce the lenses.

Finders



MAGIC FINDER.

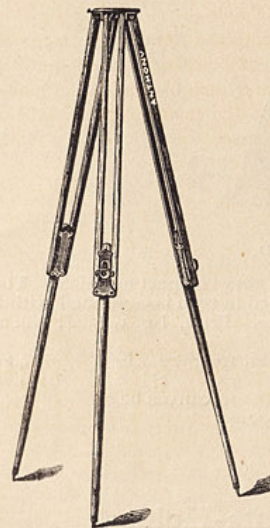


UNIVERSAL FINDER.

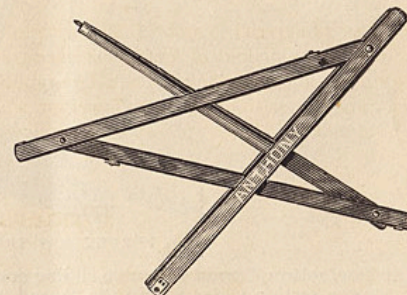
Magic Finder.—The ideal finder, having two negative lenses of rectangular form mounted close together in a nickel-plated frame, on the bottom of which is a sliding piece, by which the finder can be easily attached to the camera. Looking through the finder from a convenient distance, say twelve inches, toward the view to be taken, the operator sees before him a correct, right side up, and delightfully brilliant and sharp miniature picture of the view before him, the little frame taking in the full picture projected by means of an instantaneous lens on the ground-glass of the camera. Two circles, marked in the exact centres of the front and back surfaces of the combination, serve to enable the operator to bring any certain part of the view to the exact centre of the picture by placing the eye so that the two circles cover each other, and at the same time adjusting the camera so that the selected part of the view appears inside the circles. For 4 x 5, 1.40; 5 x 8, 1.60; 6½ x 8½, 1.85.

Universal Finder.—A neat, compact article, that can be instantly attached to any camera, giving a view corresponding in shape to an ordinary negative. The object to be photographed is plainly visible, and occupies the same relative position as on the ground-glass or plate. 1.40.

Tripods



FAIRY TRIPOD, READY FOR USE.



ONE LEG OF FAIRY TRIPOD, PARTLY FOLDED.



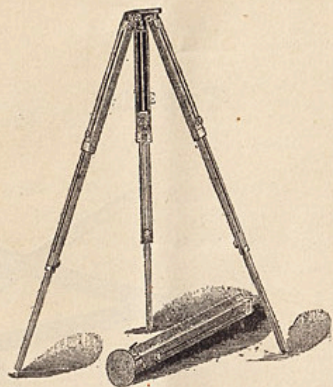
ONE LEG OF FAIRY TRIPOD, FOLDED.

Anthony's Fairy Tripod is a marvel of lightness, compactness, and rigidity, and can be readily carried in an ordinary hand-bag. When folded is only 16 inches long, and weighs 1 lb. 15 oz., 4.60

Blair's Compact Tripod, for 4 x 5, 3.75; 5 x 8, 4.20; 6½ x 8½, 4.60
Feather weight, 3.75, 4.20.

Carlton Sliding Tripod, No. 1, 2.25; No. 2, 2.75; No. 3, 3.25.
combination, " 3.25; " 3.60; " 4.25.
cane, " 5.50.

Ordinary Folding Tripod, 2.00.



PERFECTION TRIPOD.

The Perfection Tripod is double sliding and is very compact and light. The lower section slides within the second, which in turn is contained within the third, thus closing into very small space. Price, No. 1, 5.00; No. 2, 5.50.

Scovill's Daisy Tripod, length folded 16½ inches, weight 2 lbs., 4.60
 Mignon, 17 2½ 4.60
 jointed adjustable, 22 in canvas bag, 4.40
 extension, for 4 x 5, 2.80; 5 x 8, 3.00; 8 x 10, 4.60.

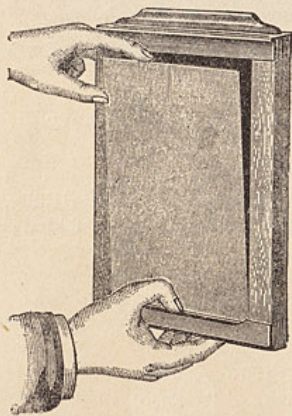


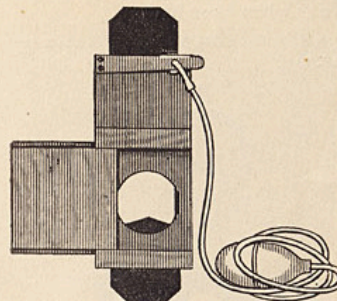
Plate-Holders

The Perfection Double Plate-holder is very simple and effective. To load the Perfection holder, the end of the plate is rested against the spring-bar at the end of the holder, when by simply pressing the spring-bar with the thumb the plate falls into place. As the plate is held in position by the ends only, the full width of the plate is exposed, and but 1/8 of an inch is cut off from each end.

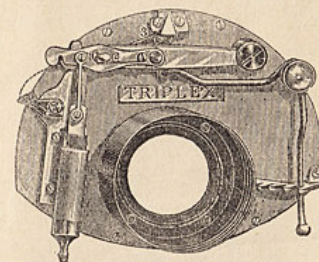
PERFECTION PLATE-HOLDER.

	4 x 5 inches	5 x 7 inches	5 x 8 inches	6½ x 8½ inches	8 x 10 inches
Perfection Plate-holder	1.00	1.25	1.35	1.60	1.85
Scovill's N. S.	1.65	1.95	2.05	3.55	4.65
Light Weight . . . . .	.95	1.20	1.30	1.60	1.85
Daisy	1.85	2.15	2.30	3.90	5.60
Anthony's Novel	1.85	2.10	2.10	3.75	
Blair's Feather Weight . . . . .	.95	1.15	1.25	1.50	1.75
Combination	1.40	1.85	1.85	2.30	2.55
New Model	1.40	1.85	1.85	2.80	3.75

Shutters



DROP SHUTTER.

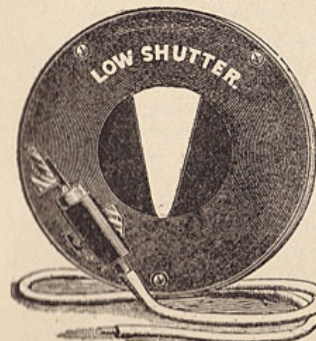


TRIPLEX SHUTTER.

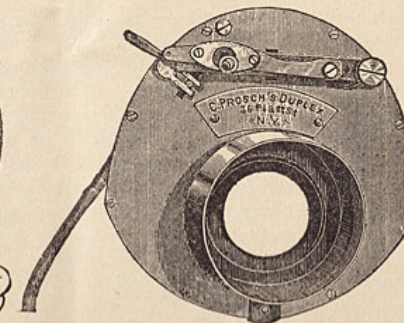
Drop Shutter—A pneumatic release has been substituted for the ordinary trigger on a wooden drop shutter, and greatly improves its value. The shutter may be used for either instantaneous or time exposures. \$1 without bulb, \$1.50 with bulb. Cut to fit any lens, 25 cents extra.

Triplex Shutter—In some respects similar to the "Duplex," the shutter that has attained a world-wide reputation. The Triplex has all its mechanism on the face of the shutter (except the two exposing slides in the inside of the case which are of steel and cannot get out of order), and all of its three movements—Time, Slow Instantaneous and Quick Instantaneous—are operated by one pneumatic. Its method of opening and closing the aperture by two oppositely pivoted slides swinging in opposite directions, half way and stopped for time exposures, and a complete continuous movement for instantaneous, insures great rapidity without jar.

Size of plate,	4 x 5	5 x 7	5 x 8	6½ x 8½	8 x 10
Price,	11.50	12.50	12.50	13.50	14.50



LOW SHUTTER.

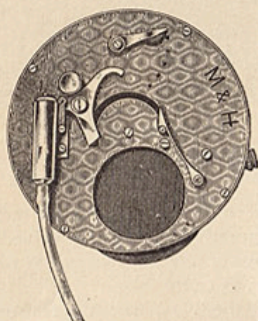


PROSCH DUPLEX SHUTTER.

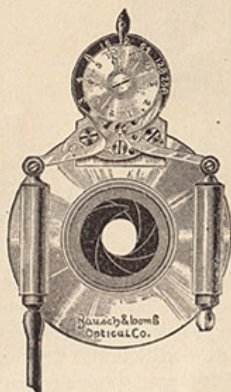
Low Shutter—For either instantaneous or time exposures, being instantly changed from one to the other by moving the small lever at the side. It is nicely finished in cherry and japan, and is made with openings of 1/4, 1/2, 2, and 2 1/2 inches. Price, 5 x 8, 4.00; larger sizes, 4.50.

Prosch's Duplex Shutter—This shutter is now so well known that description here is hardly required. The Duplex can be operated for either time or instantaneous as easily from a distance as when close by.

Size of plate,	4 x 5	5 x 7	5 x 8	6½ x 8½	8 x 10
Price,	11.00	12.50	12.50	13.50	14.00



COMPACTUM SHUTTER.



DIAPHRAGM SHUTTER.

The Compactum Shutter is constructed upon the simplest principles. It is very compact—the smaller size can easily be carried in the vest pocket. It can easily be changed from time to instantaneous, and is not liable to get out of order. There is absolutely no rebound, as the disc locks itself after making the exposure. It is steel-bronzed over brass, with working parts nicked, making it handsome in appearance. Price, small sizes, 5.50. Price, 5 x 7 and larger sizes, 6.00.

The Diaphragm Shutter—Although the "Model '89" offered advantages not possessed by any other shutter, the "Model '90" has improvements which still further enhance its value. Among the advantages are: Absolute control of time exposure; correct indication of time in seconds and fractions thereof; large index for reading time; entire independence of speed regulation from influence of temperature; large index for reading size of stops; placing of parts which must be manipulated at the front; easy of access; changing blades of iris diaphragm from steel to hard rubber; providing a movement which even in the highest speeds is almost absolutely free from concussion; strengthening of all parts so that the shutter will never fail to operate or become inefficient. As the new shutters are of totally different construction from the former models of the Diaphragm, retaining the iris diaphragm feature, however, we cannot make any exchanges of the old models for new ones.

When fitted to Rapid Universal and Alvan G. Clark Lenses, (List No. 1.)		With extra Bar'l and Diap.		When fitted to Lenses of other manufacture, leaving barrel intact.	
4 x 5	11.00	12.50	1½ in. open'g of Diap.	14.00	
5 x 8	12.00	13.50	1 7/8 in. "	15.00	
6½ x 8½	13.00	14.50	1¾ in. "	16.50	
8 x 10	14.50	16.00	2 in. "	18.00	

Nonpareil Shutter, for time and instantaneous exposures, 4.50.

Eastman-Walker Roll-Holders

Model of 1889

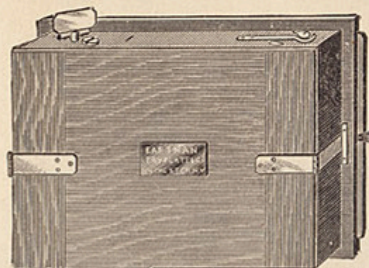


FIG. 1.

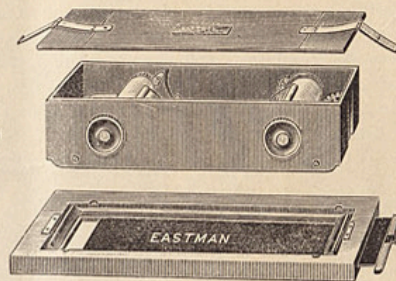


FIG. 2.

This new holder has the following advantages over all previous patterns: A reduction in weight, a reduction in size, a reduction in number of parts, a reduction in price.

The metal inside frame has been dispensed with and the working parts attached directly to the wood case, which has been strengthened to bear the strain, the result being a stronger, simpler and cheaper holder, less liable to get out of repair.

Fig. 1 shows the holder closed. Fig. 2 shows the cover removed and the case detached from the shutter frame.

PRICES OF MODEL OF 1889 ROLL-HOLDERS.

SIZE.	PRICE.	SIZE.	PRICE.	SIZE.	PRICE.
3¾ x 4¼	9.00	5 x 7	12.50	11 x 14	30.00
4 x 5	10.00	5 x 8	12.50	14 x 17	40.00
4¼ x 5½	10.00	6½ x 8½	16.00	17 x 20	50.00
4¾ x 6½	10.00	8 x 10	20.00	18 x 22	60.00
4¾ x 6½	12.50	10 x 12	24.00	20 x 24	75.00

Extra parts for Roll-Holders

All parts of Roll-Holders are made interchangeable, and any part can be furnished on application.

Extra Keys, old model 25 cts. each.

EXTRA REELS.

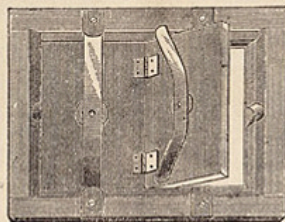
3¼ inches	45 cts.	5 inches	45 cts.
4 "	45	6½ "	70
4½ "	45	8 "	70
4¾ "	45	10 "	70

Extra Reels enable the operator to remove the exposed paper from the roll-holder without separating the exposures or rewinding the paper film, an operation that should always be avoided. Enough extra reels should be provided to carry all exposures that are intended to be made before developing. For instance, if 100 exposures are to be made on a trip, 3 extra reels are required. Each reel, as soon as full is removed from the holder and replaced by another to take the paper from a fresh spool. The boxes in which the spools are sold serve to store the reels of exposed paper. Empty spools are thrown away.

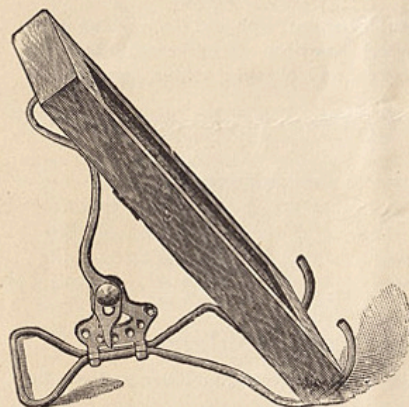
Flat Printing Frames

These Printing Frames are constructed on an improved plan. The springs are fastened by rivets instead of screws, and have a washer placed under them to prevent wear on the wood-work. The catch buttons are set into the wood flush with the top, thus preventing their turning. The back is made to open at the centre, or two-thirds, whichever style be wanted, though we find best sale for the latter as it allows more of the print to be seen during printing.

3¼ x 4¼ . . . . .	.40
4 x 5 . . . . .	.40
4¼ x 6½ . . . . .	.45
5 x 7 . . . . .	.50
5 x 8 . . . . .	.55
6½ x 8½ . . . . .	.60



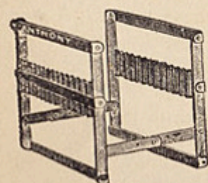
ADT PRINTING FRAMES WITH EASELS.	
3¼ x 4¼ . . . . .	.50
4 x 5 . . . . .	.50
5 x 7 . . . . .	.65
5 x 8 . . . . .	.65
6½ x 8½ . . . . .	.75
8 x 10 . . . . .	.85



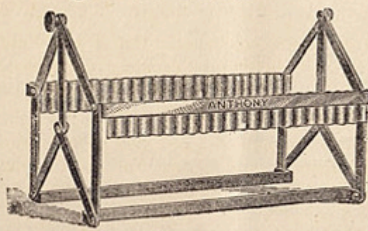
Devoe's Printing Easel

Holds the printing frame at any desired angle. Economizes space, keeps your negatives square to the sun, thereby making more symmetrical vignettes. It prevents your printing frames from slipping down and breaking negatives. Better than shelves, blocks of wood, or any other device. Can easily be put out of the way when not in use. Sizes up to 10 x 12, 3.00 a dozen.

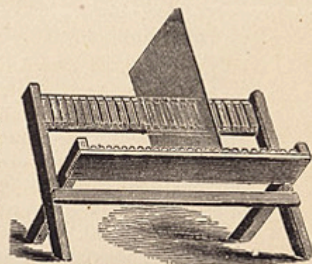
Negative Racks



Coe's Negative
Washing Rack, 1.00

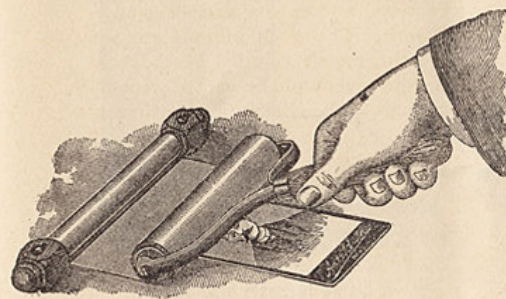


Adjustable Negative Washing
Rack, 1.50

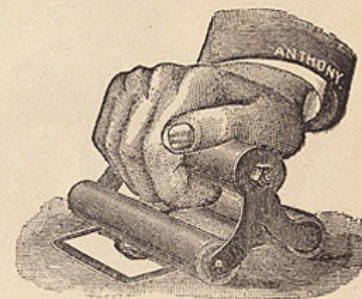


Wood Negative Rack,
45c

Print Mounters

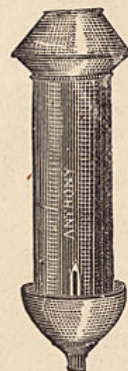


Adt Print Mounter, 1.40.

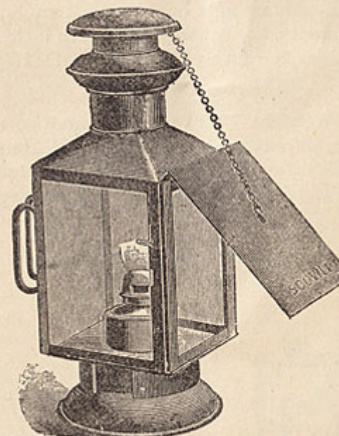


Success Print Mounter, 1.00 and 1.50.

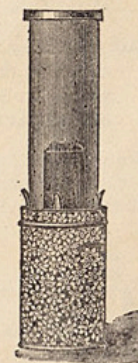
Lanterns



GAS BURNER.



PEERLESS DARK-ROOM LANTERN.

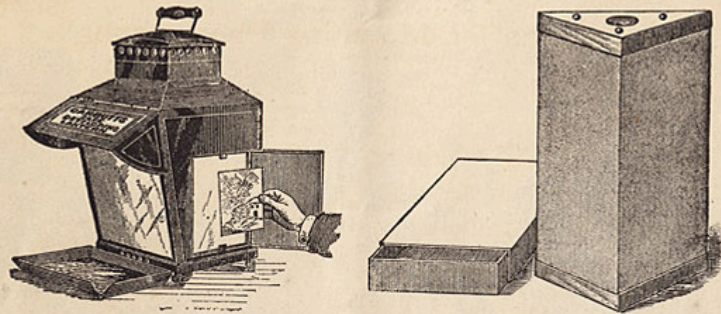


TISDELL RUBY LIGHT.

Peerless Dark-Room Lantern—So constructed that ample light is given for the dark-room, while white light cannot escape; the screen throws the light into the developing dish and at the same time shades the eyes from the light. The lantern may be used with either coal-oil or candle. 2.30.

Tisdell Candle Ruby Light—One-half of a common sperm candle is the fuel required. The lamp is always ready for use, and there is nothing to get out of order. It measures 6¼ x 2½ inches and weighs only 12 ounces. 1.25.

Gas Burner With Ruby Chimney—The patent Argand burner has been so modified as to intercept the downward radiation of the light of the lamp. Price of the Ruby gas burner and chimney, 2.50.



CARBUTT'S MULTUM IN PARVO.

RUBY POCKET LANTERN.

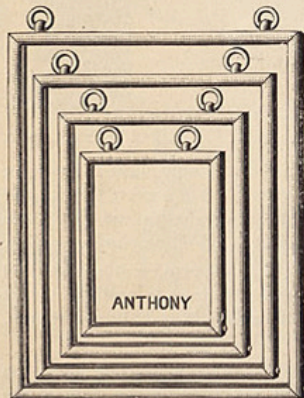
Carbutt's Multum in Parvo Dry-Plate Lantern—Has three separate and distinct forms of light, and can be used for seven or more different operations in photography. It is adapted for the use of either oil or gas; is provided with coal-oil lamp with improved patent burner and silvered reflector; is about nine inches square by fourteen inches high, with 8 x 10 light of deep ruby glass in front and hood for protecting the eyes from the glare of the red light. \$7.50

Ruby Folding Pocket Lantern—Very compact and portable. It can be carried in the pocket, affords a full, safe light, and costs but a trifle. A paraffine night candle is furnished with each, and the lantern is folded into a small flat box. 50c.

Ruby lantern, with oil lamp, 75c.

Amber glass lamp, with ruby chimney, \$1.50 and \$2.00.

Blair's lantern, \$2.55.



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,	each,	.28
5 x 8,	"	.34
6½ x 8½,	"	.38
8 x 10,	"	.48
10 x 12,	"	.75
11 x 14,	"	.90

Albums for Mounting Photographs

Size of Card	6 x 7	7 x 10	10 x 12	11 x 14	14 x 17
For Photo. (size)	4 x 5	5 x 8	6½ x 8½	8 x 10	11 x 14
Plain	1.25	1.50	2.25	2.50	5.00
With Prepared Surface	1.50	1.80	3.00	3.50	6.50
With Gilt Lines	1.75	2.00	2.75	3.00	

Interchangeable Card Albums, Cloth, Gold Label

No. 1	— 6 x 7 Cards, for 4 x 5 Photographs,	With 25 Collins Cards.	No. 1	25
" 2	— 7 x 10 " " 5 x 8 " "		" 11	30
" 2½	— 8 x 10 " " 6½ x 8½ " "		" 14	50
" 3	— 10 x 12 " " 6½ x 8½ " "		" 15	90
" 4	— 11 x 14 " " 8 x 10 " "		" 16	110

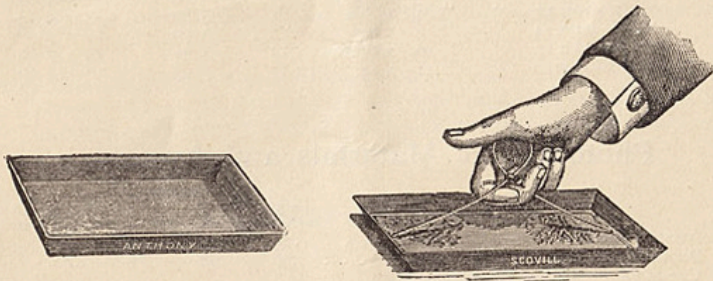
Albums, Morocco, Half Leather, Extra Gold Finish

No. 5	— 7 x 10 Cards, for 5 x 8 Photographs	With 25 Collins Cards.	No. 11	30
" 6	— 8 x 10 " " 6½ x 8½ " "	2 75	" 12	40
" 7	— 10 x 12 " " 6½ x 8½ " "	3 50	" 13	475
" 8	— 11 x 14 " " 8 x 10 " "	4 00	" 14	5 50
" 9	— 14 x 17 " " 10 x 12 or 11 x 14	5 50	" 15	9 00
" 10	— 16 x 20 " " 11 x 14 " 14 x 17	7 75	" 16	11 00

Photographic Materials and Accessories

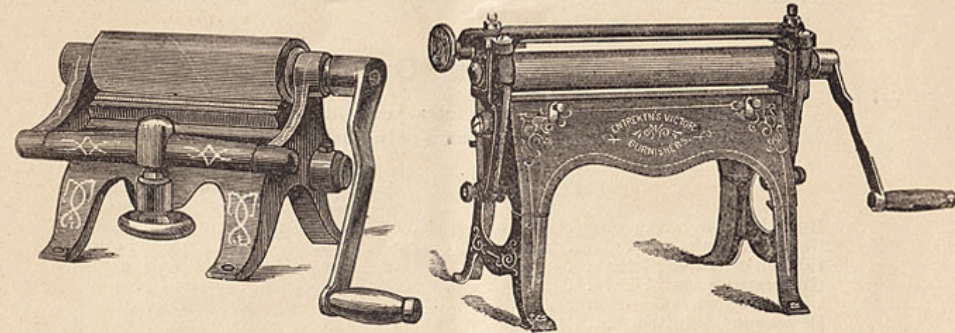
	For plate	4 x 5 inches	5 x 7 inches	5 x 8 inches	6½ x 8½ inches	8 x 10 inches
Aristo paper . . . . .		.20	.35	.40	.80	..
Bromide paper . . . . .		.37	.60	.70	1.00	1.40
Cards for mounting photographs						
white, gray, primrose, maroon, chocolate, or olive in boxes of 25 . . . . .		.28	.52	.52	.85	..
same with gold beveled edge . . . . .		.48	.82	.82	1.25	..
same with gold serrated edge . . . . .		.68	.95	.95	1.45	..
plain white, per 100 . . . . .		.95	1.50	1.65	2.15	2.50
plain white, heavier, per 100		1.25	1.65	2.00	2.50	3.10
Dry plates, per dozen						
Carbutt's, Cramer's, Eagle, Seeds, Stanley, etc. . . . .		.60	1.00	1.15	1.50	2.25
Carbutt's Orthochromatic . . . . .		.75	1.30	1.40	1.85	2.80
Transparency "A" . . . . .		.75	1.30	1.40	1.85	2.80
on ground glass . . . . .		.93	1.65	1.75	2.45	3.55
on opal glass . . . . .		.60	1.00	1.15	1.50	2.25
on ground opal . . . . .		.75	1.30	1.45	1.90	2.80
Argentico, (ferrotype) box of 2 dozen		1.25	2.00	2.25	3.75	4.50
Finders, for instantaneous views						
Anthony's		1.40	1.40	1.40	1.40	..
Scovill's Waterbury		2.80	2.80	2.80	2.80	..
Magic		1.40	1.65	1.65	2.10	2.55
Film carriers, for holding paper negatives						
in plate holders . . . . .		.28	.33	.33	.37	.47
Glass forms for trimming prints . . . . .		.47	.62	.72	.95	1.40

For Plate	4 x 5 inches	5 x 7 inches	5 x 8 inches	6½ x 8½ inches	8 x 10 inches
Ground glass					
plain, for transparencies . . . . .	.10	.12	.15	.20	.25
etched border . . . . .		.40	.42	.47	.60
extra fine, for camera backs . . . . .	.20	.34	.40	.45	.68
Ivory film . . . . .	.90	1.50	1.65	2.25	
Kits, for reducing size of plate holder . . . . .	.25	.28	.28	.37	.42
Negative binder . . . . .	.55	.65		.85	1.15
Negative boxes, to hold 24 plates . . . . .	.62	.80	.85	.95	1.04
with lock and key	1.60	1.75	1.80	1.00	2.00
Negative preservers (envelopes of stout paper), per 100 . . . . .	.40	.55	.57	.65	.80
Negative washing boxes	1.65	1.95	2.00	2.10	2.30
adaptable for all sizes					3.25
Opal glass, for trans-ferrotype paper . . . . .	.06	.10	.12	.17	.24
Pizzighelli . . . . .	.60	.95		1.30	
Printing frames . . . . .	.38	.48	.52	.60	.75
Printing pads, felt . . . . .	.05	.08	.10	.15	.25
Rubber plates for drying films . . . . .	.10	.17	.18	.28	.37
Registering slides for plate holder . . . . .	.20	.32	.37	.52	.07
Sensitized albumen paper, 2 dozen . . . . .	.37	.65	.70	.95	1.40
Sensitized blue paper (ferro prussiate) . . . . .	.20	.35	.40	.50	.65
Safety box for sensitized paper . . . . .	.95	1.05	1.05	1.15	1.40
Trans-ferrotype paper . . . . .	.37	.60	.70	1.05	1.40
Transparency frames . . . . .	.26	.30	.32	.36	.45



Trays				
agate ware, shallow . . . . .	.75		.95	1.15
agate ware, deep . . . . .	.95		1.15	1.50
japanned iron . . . . .	.18	.23	.30	.38
glass . . . . .	.23	.25	.50	.70
glossy rubber . . . . .	.25	.50	.65	.80
heavy rubber . . . . .	.62	.75	1.05	1.55
porcelain, shallow . . . . .	.42	.63	.63	.78
porcelain, deep . . . . .	.60	.78	.78	.95
wood sides with glass bottom and reservoir at end . . . . .	.95	1.10	1.15	1.20
Vignettors, McDonald's . . . . .	.50	.50	.60	.60

Absorbent cotton, 4 oz. box, 25c
 Albumen paper, not sensitized, 90c a dozen, first choice; 80c, second choice.
 Argentometer, for testing strength of silver baths, 50c
 Bristle brushes for paste or varnish, 10c and 15c



ENTREKIN'S EUREKA BURNISHER.

ENTREKIN'S VICTOR BURNISHER.

Burnishers, Entrekim's Eureka, 6-inch roll, 11.75; 10-inch roll, 18.00; Entrekim's Victor Burnisher, 8-inch roll, 7.50; lubricator for burnisher, 20c a cake
 Camel's hair brushes, flat, 20c to 40c; round, 10c to 50c
 Camera level, 40c
 Developing powders, 1 doz. in pkg., 50c
 Developer: Wanamaker's Hydrochinon, ready mixed in one solution, 8 oz., 25c; 16 oz., 50c; in two solutions, two 8-oz. bottles, 50c; Wanamaker's Pyro and Soda, in two 8-oz. bottles, 50c; Carbutt's, Pyro., 55c; Carbutt's Hydrochinon, 60c
 Focusing Cloths, rubber, yard square, 50c; larger, 75c; fine quality, 1.50
 Focusing glasses, rubber frame, 40c; brass frame, 75c
 Ground glass substitute, 50c bottle
 Filtering paper, packages of 100 sheets, 35c 45c: square, per quire, 25c
 Flash lamps, Pine's, 2.50; Hemperley's, 3.50
 Gihon's opaque, for stopping out spots on negatives, 45c
 Glass funnels, 12c 15c 25c
 Glass graduates, for measuring fluid, minim, 25c; 1 ounce, 20c: 2 ounces, 25c; 4 ounces, 33c; 8 ounces, 47c
 Glass rods, for stirring, 10c 15c 20c
 Lantern slide dry plates, Carbutt's, 60c; cover glass, 37c; mats, 1.00 a hundred; binding paper, 20c
 Magnesium flash powder, pure, for taking pictures at night, 40c a package
 Magnesium cartridges, ½ dozen in package, 25c, 40c, 70c
 Negative clasp, 15c
 Negative varnish, 50c a bottle; large size, 75c
 Orange or ruby glass, 8 x 10, 25c
 Orange or ruby fabric, 50c a yard
 Paper: litmus, 5c a sheet; onion, for vignetting, 25c a dozen; orange, 3c a sheet, 25c a dozen; ruby, 25c a sheet
 Paste for mounting photographs, 20c a jar; 30c a pint jar; 55c a quart bottle
 Photographers' note-book, 25c
 Plate lifter, Russell's, 15c; thimble, 15c
 Print trimmer, 45c; revolving, 95c
 Printing easel, metal, 30c; wood, 25c each
 Retouching frames, for negatives up to 8 x 10, 3.40
 Retouching fluid, 25c a bottle
 Retouching glasses, 4 inch, 2.50
 Rubber bulbs and tubes for shutters, 50c
 Rubber finger tips, 5c each, set of three, 15c
 Scales and weights (small), 5 inch, 65c; 6 inch, 85c; finer, on walnut box, 3.75; with graduated beam, nickel pans, 7.50
 Vignette paper, 1.00 for set of 15

Developing Outfit.

In order to develop your own pictures you will be obliged to have the following developing outfit, which contains only what is needed :

	4 x 5 inches	5 x 7 or 5 x 8 inches	6½ x 8½ inches
Ruby lantern . . . . .	.50	1.25	1.50
Focusing cloth . . . . .	.50	.50	.75
1 dozen sensitive plates . . . . .	.60	1.15	1.50
Graduated glass . . . . .	.25	.33	.50
3 japanned trays . . . . .	.54	.75	1.05
Developing solution . . . . .	.25	.50	.50
1 pound hyposulphite of soda . . . . .	.06	.06	.06
1 pound powdered alum . . . . .	.10	.10	.10
1 ounce bromide of potassium . . . . .	.14	.14	.14
Book of instruction . . . . .	.25	.25	.25
Canvas traveling case . . . . .	.50	.75	1.00
	3.69	5.78	7.35

For printing and mounting on cards, the materials named below will be needed :

	4 x 5 inches	5 x 7 or 5 x 8 inches	6½ x 8½ inches
Printing frame . . . . .	.38	.52	.60
2 dozen sheets sensitive paper . . . . .	.37	.70	.95
Toning solution . . . . .	.50	.50	.50
Porcelain, rubber, or glass tray . . . . .	.40	.80	1.00
2 dozen cards . . . . .	.30	.50	.50
1 sheet litmus paper . . . . .	.05	.05	.05
Jar of paste . . . . .	.20	.20	.20
Brush . . . . .	.10	.10	.10
	2.30	3.37	3.90

If you are not limited as to the price of your developing outfit, the following additional articles will be found very useful :

	4 x 5 inches	5 x 7 or 5 x 8 inches	6½ x 8½ inches
Blue print paper, pkg. 2 doz. sheets . . . . .	.20	.40	.50
Bromide paper, " 1 " " . . . . .	.37	.60	.83
Transferotype paper . . . . .	.37	.70	1.05
Negative preservers (heavy envelopes) per 100 . . . . .	.40	.57	.65
Negative washing and drying boxes	1.65	2.00	2.10
Wooden negative drying rack, for any size . . . . .	.45	.45	.45
Developing material for bromide paper . . . . .	.65	.65	.65
Artists' cuffs, pair . . . . .	.50	.50	.65
Rubber finger tips, set of 3 . . . . .	.15	.15	.15
Negative clasp or thimble . . . . .	.15	.15	.15
Flat camel's-hair brush, 2 in. . . . .	.40	.40	.40
Print trimmer . . . . .	.45	.45	.45
Glass form for trimming prints . . . . .	.50	.75	1.00
Rubber squeegee, 6 in. . . . .	.40	8 in., .50	12 in., .75
Vignette papers, pkg. 15	1.00	1.00	1.00
Magnesium flash lamp, 2.50.			
Magnesium flash powder, oz. pkg., 40c.			

Chemicals for Photographic Use

C. P. means chemically pure.

Acid acetic, bottle included, 4 oz., 15c; 1 lb., 25c.
citric, bottle included, 1 oz., 15c; 1 lb., 84c.
gallic, 1-oz. carton, 20c.
muriatic, glass stoppered bottle included, 1 lb., 37c.
nitric, c. p., glass stoppered bottle included, 1 lb., 37c.
oxalic, bottle included, 1 oz., 10c; 1 lb., 34c.
pyrogallic, 1-oz. tin can, 35c.
salicylic, bottle included, 1 oz., 29c.
sulphuric, c. p., glass stoppered bottle included, 1 lb., 37c.
Alum, powdered, 1 lb., 10c.
chrome, 1 lb., 30c.
Ammonia, glass stoppered bottle included, 1 lb., 30c.
bromide, bottle included, 1 oz., 15c.
sulph. cyanide, bottle included, 1 oz., 20c.
iodide, glass stoppered bottle included, 1 oz., 52c.
Borax, 1 lb., 25c.
Cadmium bromide, bottle included, 1 oz., 29c.
iodide, bottle included, 1 oz., 54c.
Eikonogen, bottle included, 1 oz., 50c.
Ether, sulph. conc., glass stoppered bottle included, 1 oz., 79c.
Gelatine, Nelson's No. 1, ½-lb. pkg., 75c; 1-lb., 1.50; No. 3, 1-lb., 65c.
Glycerine, bottle included, 1 oz., 15c; 1 lb., 58c.
Gold chloride, c. p., 15 grain bottle, 50c; 7½ grain bottle, 30c
Gold and sodium chloride, 15 grain bottle, 30c.
Gum sandarac, 1 lb., 50c.
Hydrochinon, bottle included, 1 oz., 60c.
Hydroxylamine, glass stoppered bottle included, 1 oz., 1.07.
Iron, proto. sulph., 1-lb. bottle, 17c; 1-lb. box, 12c.
and ammonia citrate, bottle included, 1 lb., 82c.
Magnesium, powder, 1 oz., 40c.
Mercuric chloride, bottle included, 1 oz., 15c; 1 lb., 84c.
Potassium bromide, bottle included, 1 oz., 14c.
bichromate, 1 lb., 20c.
carbonate, bottle included, 1 lb., 29c.
cyanide, bottle included, ¼ lb., 25c; ½ lb., 35c; 1 lb., 59c.
iodide, bottle included, 1 oz., 14c.
meta bisulphate, glass stoppered bottle, 1 oz., 37c.
ferricyanide, bottle included, 1 oz., 14c; 1 lb., 84c.
oxalate, ½-lb. box, 20c; 1-lb. box 35c.
Silver nitrate, variable, about 85c an oz.
chloride, variable, about 1.30 an oz.
Soda caustic, in sticks, 1-oz. bottle, 14c; 1-lb. bottle, 59c.
Sodium acetate, bottle included, 2 oz. 15c
bicarbonate, bottle included, 1 lb., 15c.
bromide, bottle included, 1 oz., 14c.
carbonate, cryst., bottle included, 1 lb., 15c.
citrate, bottle included, 1 oz., 15c.
iodide, bottle included, 1 oz., 30c.
hyposulphite, 1-lb box, 6c; 5 lbs., 25c.
phosphate, bottle included, 1 oz., 14c; 1 lb., 34c.
sulphite, cryst., bottle included, 1 lb. 21c; granular, bottle included, 1 oz., 9c; 1 lb., 44c.
Uranium nitrate, bottle included, 1 oz., 90c.

Ready-Prepared Solutions.

Restrainer, in accurate dropping bottle, 50c.

Developing Powders, per box of 12, 50c.

Pyro and Soda Developer, works equally well with all brands of plates, giving perfect detail, density and brilliancy in the negative. Full directions on each package. Price per package, 50c.

Bromide Paper Developer; for Eastman Bromide Paper, set, 75c.

French Azotate, (for toning prints), per bottle, 25c.

Intensifier, (for strengthening weak negatives), price per bottle, 75c.

Reducing Solution, small bottle, 50c.

Large bottle, 75c.

Reduces density in negatives and positives on glass or paper. Can be applied locally to remove halation marks, ghosts, etc.

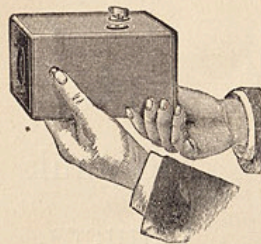
Toning Solution, per set, 50c.

Produces the most brilliant tones, ranging from chocolate to black, on ready sensitized paper. Large bottle, 90c.

Hypo Eliminator, (for removing every trace of hyposulphite of soda from negatives and prints), price per bottle, with book of testing paper, 50c.

Orthochromatic Solutions, by which any plate may be rendered color-sensitive, price, per package, \$1.50.

Retouching Fluid, (for varnished and unvarnished negatives), price, per bottle, 25c.

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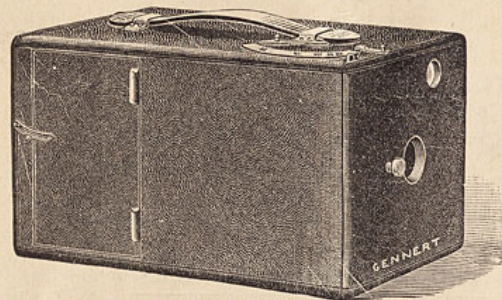
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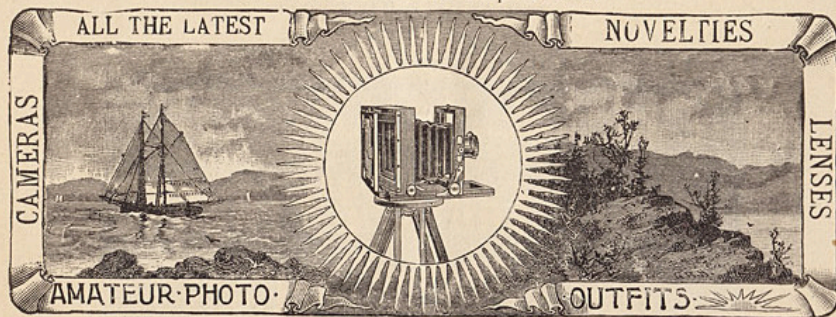
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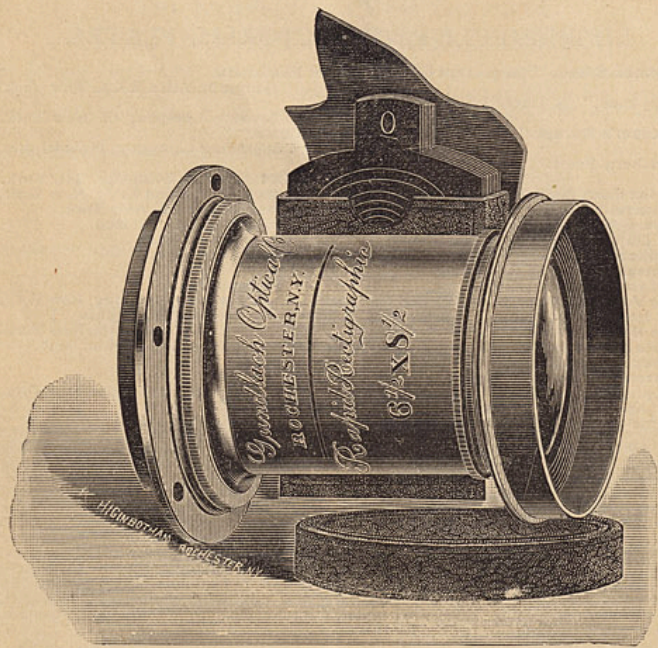
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