



A COMPLETE GUIDE FOR BEGINNERS

IN THE ART-SCIENCE OF

PHOTOGRAPHY.

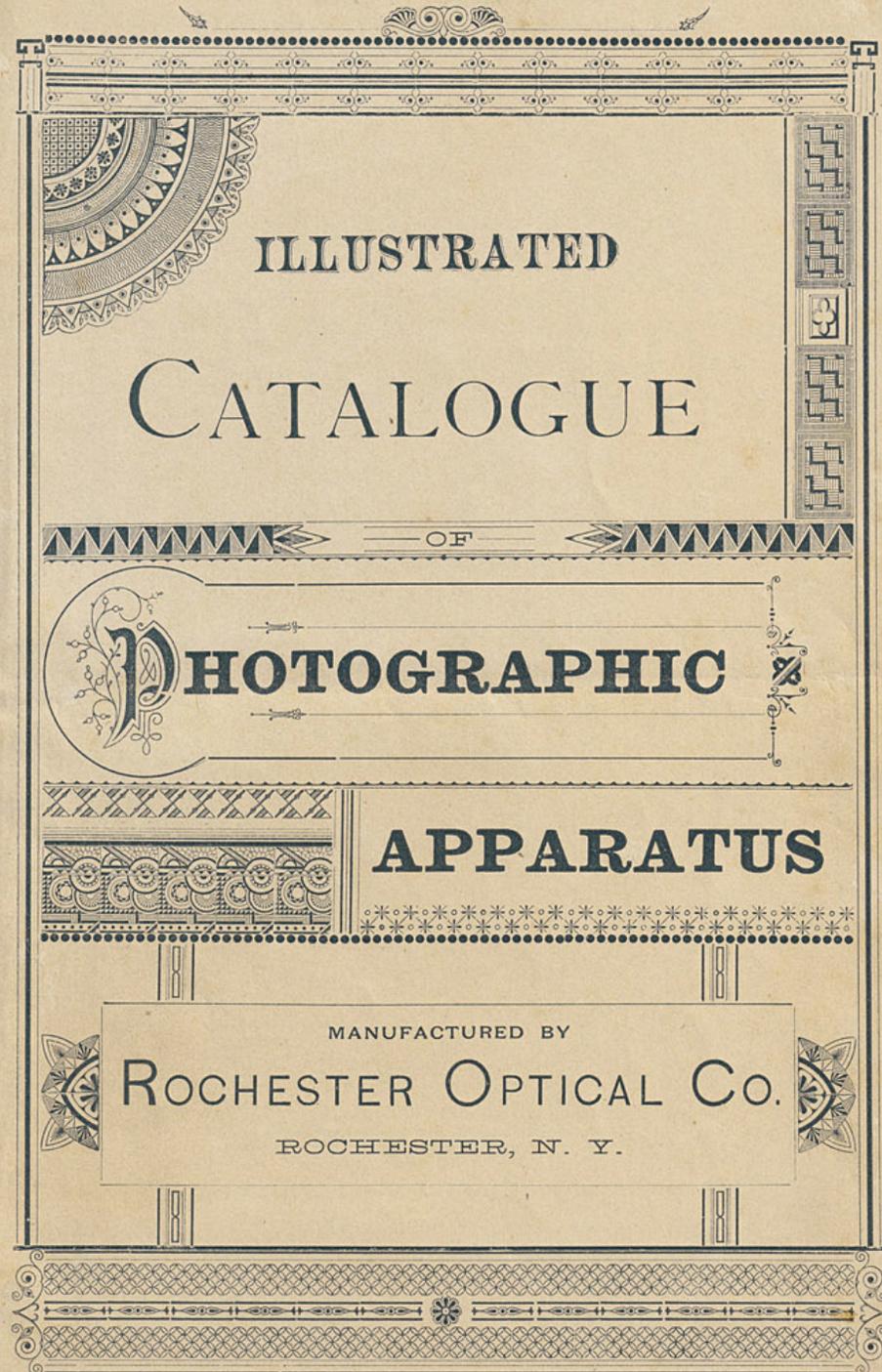
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PUBLISHED BY

ROCHESTER OPTICAL CO.,

ROCHESTER, N. Y.

Tom Harris



ILLUSTRATED

CATALOGUE

OF



PHOTOGRAPHIC



APPARATUS

MANUFACTURED BY

ROCHESTER OPTICAL CO.

ROCHESTER, N. Y.

DESCRIPTIVE CATALOGUE

—AND—

PRICE LIST

—OF THE—

PHOTOGRAPHIC APPARATUS

MANUFACTURED BY THE

ROCHESTER OPTICAL CO.

W. F. CARLTON,

PROPRIETOR AND MANAGER.

SPECIALTY:—VIEW CAMERAS, FOR AMATEURS AND PROFESSIONALS.

ROCHESTER, N. Y.

JANUARY 1, 1885.

ERNEST HART, PRINTER, 24 STATE ST.

TO OUR CUSTOMERS.

We invite a careful and critical examination of this, our Annual Catalogue of Photographic Materials, which we have the pleasure to offer.

Our goods are guaranteed to be, in every particular, exactly as represented.

Our prices will always be found as low as possible for the class of goods.

We employ only skilled workmen, the most of whom have been with us for several years; we use nothing but selected materials, and as all our apparatus is made under our personal supervision, we can say without hesitation that our goods are unequalled for durability, workmanship, accuracy and excellence of finish.

We are progressive and improve our apparatus when found practicable, as we avail ourselves of every desirable modification of apparatus. Should these changes cause a slight departure from the printed description it will be for the better, thus adding to the cost of production, which we voluntarily assume for the benefit of our customers.

This edition supercedes all former ones.

TERMS.

Persons unknown to us, desiring goods sent C. O. D., must remit one-half the cost with order. The goods will then be sent with privilege of inspection.

Orders for shipment by freight must be accompanied by full amount of invoice.

Price of all goods fluctuate. This Catalogue gives the price at date of issue. Customers will profit by any reduction, though not aware of the change.

New customers who wish to establish a line of credit, will oblige us and avoid delay by sending approved references with order.

We pack all goods with the utmost care and cannot be accountable for delay in transportation or breakage.

In ordering goods please state how to ship. Should this be omitted, we will use our own discretion.

Small parcels which do not contain glass can be sent by mail at the risk of the purchaser. In ordering goods sent by mail, postage must be enclosed, otherwise goods will be sent by express.

VIEW CAMERAS.

View Cameras being our specialty, it is our aim to arrive as near perfection as possible in their construction. They are made as light and compact as possible without loss of strength and durability.

THE IDEAL.

REVERSIBLE BACK CAMERA.

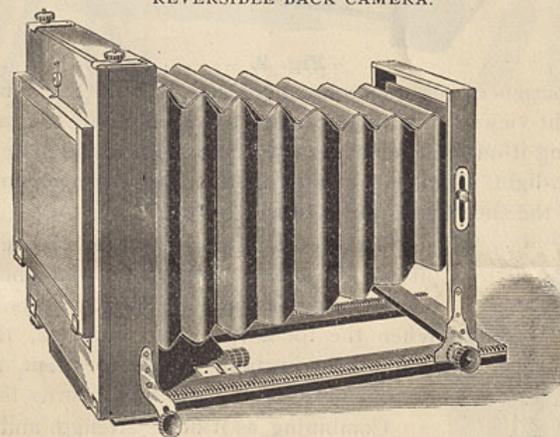


Fig. 1.

The unprecedented success of our New Model and Challenge Cameras, leads us to place on the market the Ideal. It is the result of much study and many experiments, made with a view of producing an instrument combining all the qualities required in a View Camera for the professional and amateur photographer, and we are firm in the belief that it is the best camera in market in many essential features.

It is made from first quality Cuban mahogany, finished in the best possible style and has all latest improvements and adjustments. No pains has been spared to make every working point as near perfect as possible. The camera-box is square, the back being reversible, so that where a view be wanted either vertically or horizontally on plate, the change can be made in less than ten seconds, by simply reversing the back, instead of entire camera-box; this admits of the slide being drawn from the top or bottom or from either side at will, which, in certain confined situations would enable the operator to procure a view which he could not get with a camera which would admit of the slide being drawn from but one side.

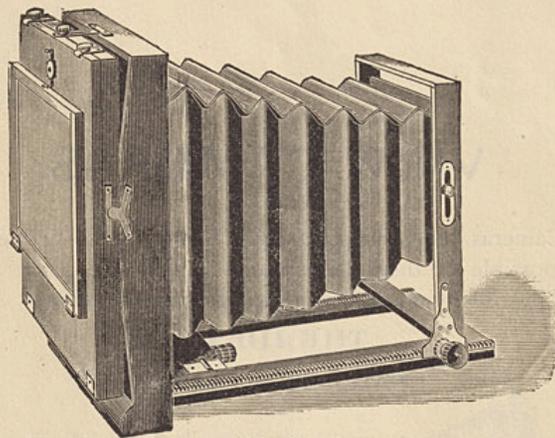


Fig. 2.

The experienced photographer need not be told the difficulty when taking upright views with a large camera of reaching up to draw the slide and of getting it out and replacing it without fogging the plate, especially in bright sun-light. This is obviated in the Ideal by reversing the back and drawing the slide from the bottom.

The focusing is by means of the rack and pinion movement. The front with the lens moving forward, leaving the back always stationary. When the focus has been obtained, the front is clamped by turning an independent milled-head placed inside of the one which turns the pinion.

Combining as it does, strength and steadiness, together with grace and compactness, the Ideal will commend itself to both the professional and amateur photographer. Sizes up to and including $6\frac{1}{2} \times 8\frac{1}{2}$ are made the same as Fig. 1, while 8×10 and above are made same as Fig. 2, which is the addition of the stiff frame to which back is attached. This becomes necessary on large cameras for stability. Fig. 3 shows camera folded.

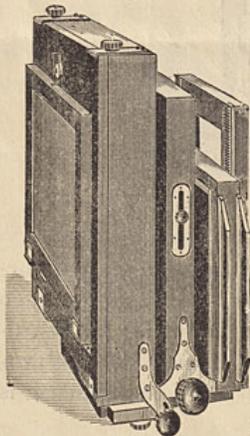


Fig. 3.

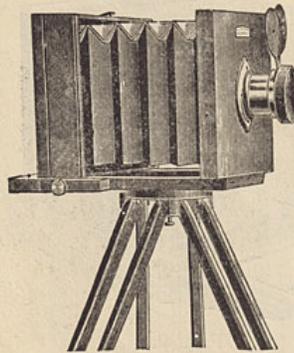
It is made in both single and double swing.

Price includes one double holder and canvas carrying case with straps and handle, but no lens or tripod.

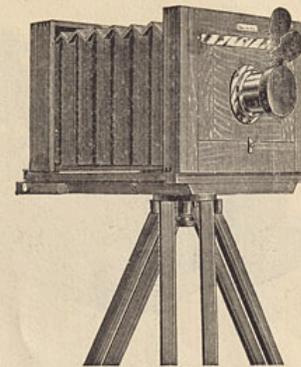
PRICE LIST.

		SINGLE SWING.	DOUBLE SWING.
For view	$4\frac{1}{4} \times 6\frac{1}{2}$,	\$24 00	\$26 00
" "	5×8 ,	26 00	28 00
" "	$6\frac{1}{2} \times 8\frac{1}{2}$,	28 00	30 00
" "	8×10 ,	34 00	38 00
" "	10×12 ,	40 00	45 00

THE NEW MODEL CAMERA.



4 x 5.



5 x 8.

This Camera is well known, having been in the market for nearly two years. It was made to meet the wants of the amateur who wished a good but cheap apparatus. It is made of best seasoned cherry, highly finished. The focusing-screen is hinged to camera-back, which is much more convenient than where loose, as in most low priced cameras, and is less liable to loss and breakage.

The tripod is our Standard folding tripod, for description of which, see page 13. The lens is our well known R. O. Co.'s View Lens, which is fully described under the head of Lenses. The plate-holder is our Model Holder, which is made on a greatly improved plan, which exposes the *full* size of plate to the action of the light.

These cameras are reversible for taking pictures either vertically or horizontally on the plate. All sizes above 4×5 have folding-bed for compactness. A carrying-case, with drop-handle, is furnished with each camera and will hold, beside the camera, three holders, focusing cloth, lens cap, etc.

Price, complete, including lens, tripod, carrying-case and one model plate-holder :

For view 4×5 ,	- - - - -	\$10 00
" 5×8 ,	- - - - -	12 00
" $6\frac{1}{2} \times 8\frac{1}{2}$,	- - - - -	14 00

Stereoscopic attachment, including matched pair of lenses, furnished for above cameras (except 4×5) at \$7 00.

THE NEW MODEL IMPROVED.

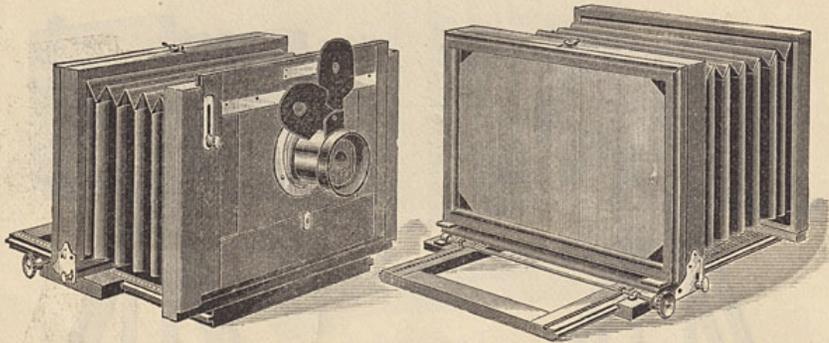


Fig. 1.

Fig. 2.

In the construction of this camera we have followed the general style of the New Model. It is well known in market as "Outfit No. 4," the 5 x 8 having been so listed in our former catalogue, and has enjoyed the reputation for nearly two years of being the most popular camera in market, and deservedly so, it being the only strictly first-class camera made at a price within reach of the ordinary amateur, and is conceded by all to be the best camera for the price to be found in market.

It is made of best Cuban mahogany, highly finished and with nickel trimmings; it has swing back, sliding-front, folding-bed, and is reversible for taking pictures either vertically or horizontally on plate.

The rack and pinion focusing movement is added to this camera at \$2.00 additional except the 8 x 10, which is only made with rack and pinion.

The 8 x 10 size differs slightly from the cuts above, which represent the 5 x 8 and 6½ x 8½, as it has the addition of the stiff frame, rendered necessary in so large a camera, for rigidity.

Price, including R. O. Co.'s view lens, tripod, carrying-case with one model plate-holder. (except 8 x 10, where lens is not included):

For view, 5 x 8,	\$16 00	With rack and pinion,	\$18 00
" " 6½ x 8½,	20 00	" " "	22 00
" " 8 x 10, (Not including lens),		" " "	26 00

Stereoscopic attachment, including matched pair of lenses, furnished for above cameras at \$7 00.

THE COMMODORE.

A. C. A. CAMERA.

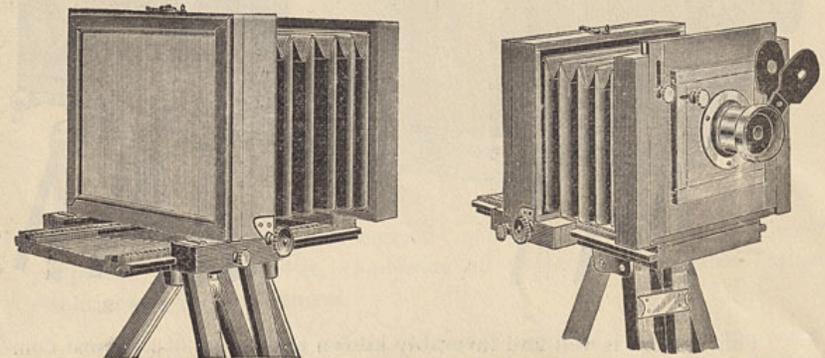


Fig. 1.

Fig. 2.

This camera was made at the suggestion of Mr. Matt. Angle, a prominent canoeist, amateur photographer and a member of the American Canoe Association. We are also under obligations to Mr. F. F. Andrews, Rear-Commodore A. C. A., and an enthusiastic amateur photographer, for valuable suggestions. It was made to meet the wants of canoeists and bicyclists, for a strictly first-class camera, which should be very compact, durable and simple in mechanism. It is made of first-class mahogany, highly finished, and we have spared no pains or expense to make it the most desirable camera in market. It has folding-bed, double sliding-front, rack and pinion; is easily reversed and has no loose parts.

Price includes R. O. Co.'s view lens, sliding tripod, canvas carrying case and one model plate-holder:

	WITHOUT SWING.	SINGLE SWING.
For view, 4 x 5,	\$18 00	
" " 4½ x 6½,	20 00	\$22 00
" " 5 x 8,		24 00

AMERICAN CHALLENGE.

SWIVEL BED CAMERA.

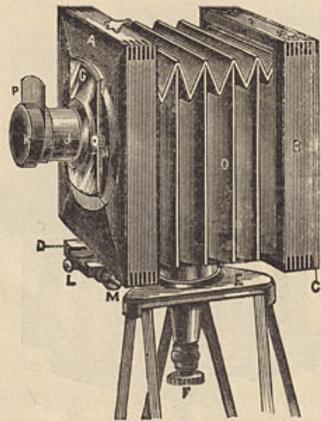


Fig. 1.

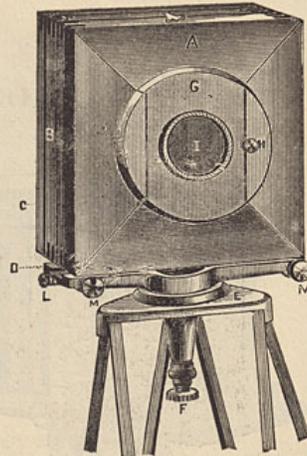


Fig. 2.

This camera is well and favorably known and is one of the most compact cameras made. It is only made in the two sizes, $3\frac{1}{4} \times 4\frac{1}{4}$ and 4×5 .

It is made of best seasoned cherry, highly finished in the natural wood. The front is mitered in four pieces, giving it an elegant appearance. The bed is of metal, japanned, and swivels under the camera-box for compactness, as shown in Fig. 2.

The camera-box is made square and, as the holders are also square, they may be adjusted to camera, either vertically or horizontally, thus avoiding the necessity of reversing camera for either vertical or horizontal views. It has sliding front, which is also reversible so that when swiveled for transportation, the lens is placed inside the camera-box.

The tripod head is adjustable so that the camera may be leveled without the necessity of moving the tripod legs.

In setting up the camera the bed is swiveled from under the box; the box is then moved back in the groove in the bed and clamped; the front is then moved forward until it engages in the focusing screw by means of which the focus is obtained.

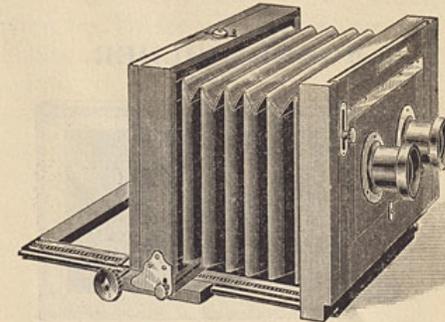
We have reduced the price on this camera. Price includes lens, tripod, carrying case and one holder:

For view, $3\frac{1}{4} \times 4\frac{1}{4}$,	- - - - -	\$10 00
" " 4×5 ,	- - - - -	12 00

Price of extra plate-holders for Challenge Camera:

$3\frac{1}{4} \times 4\frac{1}{4}$,	- - - - -	\$1 50
4×5 ,	- - - - -	1 75

NEW MODEL STEREOSCOPIC CAMERA.



This is the lightest, most compact and simplest Stereoscopic Camera yet placed on the market, combining all those most desirable features essential in a Stereo. Camera.

It has no loose parts. It is made with vertical sliding front, for adjusting sky and foreground. Swing back, folding-bed, rack and pinion focusing movement, sliding tripod.

It has rubber bellows. It is made from best mahogany, highly finished with nickel trimmings. This camera will commend itself to the professional view taker, as it is indeed a model of portability. The partition may be removed, and, as the camera is reversible, *single* views may be taken, either vertically or horizontally on plate by changing the lens-board.

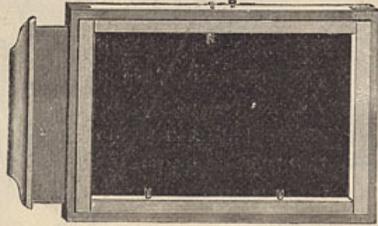
Price, for 5×8 , complete, including one Model Holder and pair of R. O. Co.'s view lenses, matched, - - - - - \$25 00

Complete, without lenses, - - - - - 19 00

" " " or tripod, - - - - - 16 00

DRY PLATE HOLDERS.

MODEL HOLDER.



The Model Dry Plate Holder has been sold by us for three years and scarcely need any detailed description. They are so arranged that the entire surface of the plate is exposed.

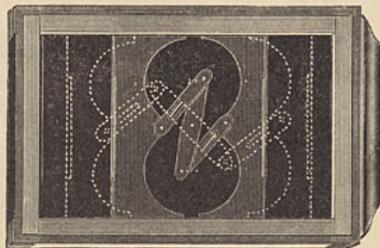
They will admit of the use of plates which are in length equal to the width of the holder. For example: a 4 x 5 plate can be used in a 5 x 8 holder. Kits can be used for other sizes, if desired.

4 x 5,	- -	\$1 50	6½ x 8½,	- - -	\$3 00
4¼ x 6½,	- - -	1 75	8 x 10,	- - -	4 50
5 x 8,	- -	2 00			

Price of kits for smaller plates :

To fit 4 x 5,	Holder to hold	3¼ x 4¼	Plate,	- -	\$0 50
" 5 x 8,	"	" 4 x 5,	"	- -	0 60
" 6½ x 8½,	"	" either 5 x 8 or 4 x 5,	"	- -	0 75

PEERLESS HOLDER.



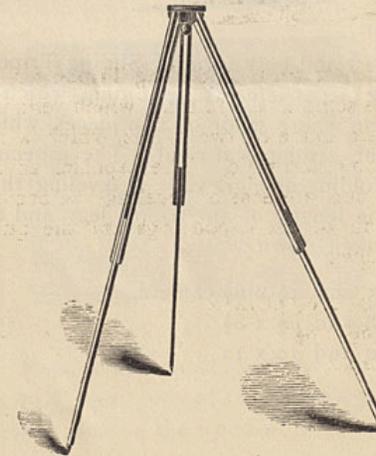
This is acknowledged by competent judges to be the most convenient Dry Plate Holder ever invented.

The foregoing cut fully illustrates its special advantages. The ledges are connected in such a way that to move one imparts a *contra* motion to the opposite one, so that they move toward or from each other, the center of motion being in the center of the holder. This admits the use of *any* size plate from the largest the holder will contain down to very small ones without the use of kits, and the plate, *no matter what size* is used, is *always in the center of the holder*.

There are two small springs inside of the ledges which force the plate out against the ledge and hold it in focus. The ledges are faced with rubber on which the edge of plate rests.

5 x 8,	- - - - -	\$3 00
6½ x 8½,	- - - - -	4 50
8 x 10,	- - - - -	6 00
10 x 12.	- - - - -	8 00

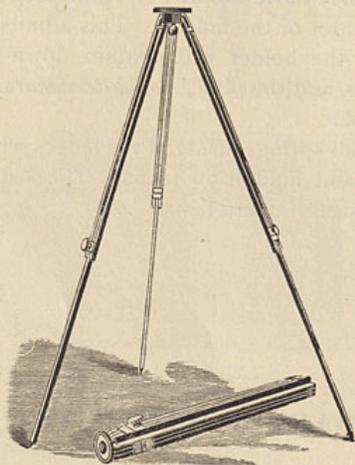
STANDARD FOLDING TRIPOD.



This is our original style of Tripod, an extended description of which is scarcely necessary. On under side of tripod top are small nibs which prevent the legs from being detached from the top until raised to a horizontal position. The advantage of this is obvious, as, if the operator in moving his camera press together the upper pieces of the tripod legs they will not become detached from the tripod top.

The tripod screw remains always in the iron top, ready for use and not liable to loss.

Price,—for cameras from 4 x 5 to 6½ x 8½. - - - \$3 00

CARLTON'S SLIDING TRIPOD.

This is the simplest and best form of Sliding Tripod yet made. The legs are made in three pieces same as the folding, which renders the tripod firmer when set up than where made of two pieces, which is the ordinary form. It is very light, strong and rigid. The especial advantages of a sliding tripod over a folding one, are ease of leveling the camera in rough places by adjusting the length of the tripod legs and the quickness with which it is set up or taken down.

No. 1,—for 4 x 5 and 4½ x 6½ camera,	-	-	\$3 00
No. 2,—for 5 x 8 and 6½ x 8½ “	-	-	4 00
No. 3,—for 8 x 10 and 10 x 12 “	-	-	5 00

R. O. CO.'S DROP SHUTTER.

This is one of the neatest and best Shutters in market, being simple, durable and convenient. The action can be readily controlled and regulated from the gravity drop to as quick an exposure as desired. It is made of brass, full nickeled. It is made to fit over Nos. 1, 2 and 3 R. O. Co. lenses. Also, Nos. 1 and 2 Darlot Rapid Hemispherical.

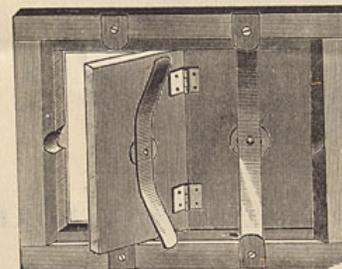
Prices for any of the above sizes, - - - \$3 00

REID'S MODEL SHUTTER.

This is the invention of Mr W. H. Reid and is an exceedingly neat and simple device.

It is very light, almost noiseless, causes no jar. It is not easily gotten out of order and can be readily repaired in case of injury. The tension can be increased or diminished at will to make the shutter work with greater or less rapidity.

Price, up to 2 inch diameter of lens, - - -	\$2 00
“ from 2 inch diameter to 3 inch, - - -	3 00

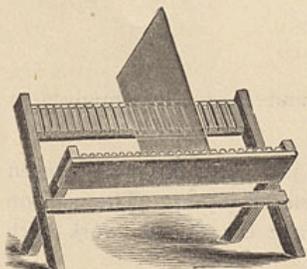
FLAT PRINTING FRAMES.

Our 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.

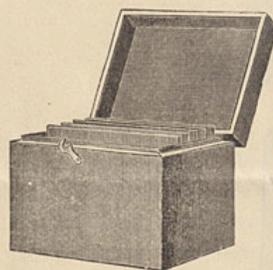
The back is made to open at the center or two-thirds, which ever style be wanted, though we find best sale for the latter, as it allows more of the print to be seen during printing with no danger of shifting the paper.

3¼ x 4¼, - - -	\$0 45	5 x 8, - - -	\$0 60
4 x 5, - - -	45	6½ x 8½, - - -	70
4¼ x 6½, - - -	55	8 x 10, - - -	85
5 x 7, - - -	60	10 x 12, - - -	1 15

FOLDING NEGATIVE RACK.

An inexpensive and very convenient accessory for the dark-room, preventing the negatives from becoming scratched while drying. Holding 24 plates.

Price for plates up to $6\frac{1}{2} \times 8\frac{1}{2}$, - - \$0 50
 " " from 8×10 to 14×17 , 1 00

NEGATIVE BOXES.

Made from selected white wood, with hinged cover. Are exceedingly convenient for storing negatives. Each holds 24 plates.

$3\frac{1}{4} \times 4\frac{1}{4}$, - - \$0 75	5×8 , - - \$1 00
4×5 , - - - 80	$6\frac{1}{2} \times 8\frac{1}{2}$, - - 1 10
$4\frac{1}{4} \times 6\frac{1}{2}$, - - - 85	8×10 , - - - 1 25
5×7 , - - - 90	10×12 , - - - 2 00

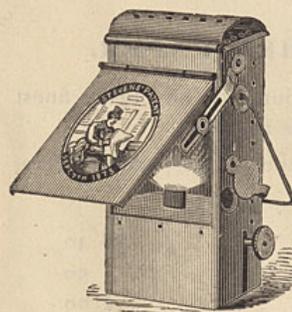
DRY PLATE SAFETY BOXES.

These are similar in outward appearance to the Negative Box, but are made with all joints thoroughly broken and are lined with black velvet, which prevents reflection.

They are useful in the dark room, as the box of plates may be put in the safety box, saving wrapping and unwrapping them when filling the holders in a hurry. Also for storing undeveloped plates.

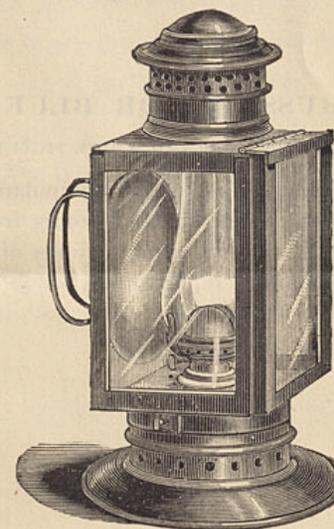
A lock and key can be furnished with each at 75 cts. extra.

$3\frac{1}{4} \times 4\frac{1}{4}$, - - - \$1 00	5×8 , - - - \$1 35
4×5 , - - - 1 00	$6\frac{1}{2} \times 8\frac{1}{2}$, - - - 1 50
$4\frac{1}{4} \times 6\frac{1}{2}$, - - - 1 15	8×10 , - - - 2 00
5×7 , - - - 1 25	10×12 , - - - 3 00

"POCKET" RUBY LANTERN.

For general dark-room work for amateurs. Very portable.

Price, each, - - - 50 cts.

THE NON-ACTINIC DARK ROOM LANTERN.

For those who wish a larger lantern than the "Pocket" there can be none better than the "Non-Actinic." It gives a good, strong, safe light for general dark-room work.

Price, each, - - - \$2 00

DRY PLATES.

We sell several makes of Dry Plates, among them, Inglis', Forbes', Maudsley's, and our Non-Frilling.

SIZE.	PRICE PER DOZ.	SIZE.	PRICE PER DOZ.
$3\frac{1}{4} \times 4\frac{1}{4}$, - - -	\$0 60	5×8 , - - -	\$1 75
4×5 , - - -	90	$6\frac{1}{2} \times 8\frac{1}{2}$, - - -	2 30
$4\frac{1}{4} \times 6\frac{1}{2}$, - - -	1 20	8×10 , - - -	3 40
5×7 , - - -	1 55	10×12 , - - -	5 00

READY SENSITIZED ALBUMEN PAPER.

This paper is imported by us and will be found to be of the finest quality and of uniform sensitiveness and will tone rapidly.

Put up in light-tight packages of two dozen sheets, except the 18 x 22, which are in rolls of one dozen sheets.

3¼ x 4¼, per package,	\$0 40
4 x 5, "	50
5 x 8, "	1 00
6½ x 8½, "	1 25
8 x 10, "	1 75
18 x 22, "	3 50

FERRO-PRUSSATE OR BLUE PAPER,

FOR MAKING BLUE AND WHITE PICTURES.

This paper is extremely simple in its manipulation, as it requires no toning and is very convenient for making proofs from negatives. It is also adapted for architects and for reproductions of machinery, etc., for an engraver to copy from. The rapidity with which a print can be made is a great recommendation in its favor.

Put up in packages of two dozen sheets.

4 x 5, per package,	\$0 25
5 x 8, " "	50
6½ x 8½, " "	60
8 x 10, " "	1 00

CARD MOUNTS.

Put up in packages of 2 dozen.

Price per package.

	4 x 5	5 x 8	6½ x 8½	8 x 10
Enameled, Figured Back, assorted colors,	\$0 40	\$0 80	\$1 00	\$1 40
India Tint, wide border, suitable for framing,	80	1 20	1 60	2 00
Bottle Green, gilt edge, an extra fine article,	1 00	2 00	2 50	3 50

ABSORBENT COTTON,

FOR FILTERING PHOTOGRAPHIC SOLUTIONS.

2 oz. Paper box,	\$0 20	8 oz. Paper box,	\$0 50
4 oz. " "	30	1 lb. package,	80

GLASS FUNNELS,

FOR FILTERING, ETC.

½ Pint,	\$0 15	1 Quart,	\$0 25
1 " "	20	2 " "	40

GRADUATED GLASSES.

1 oz.,	\$0 25	4 oz.,	\$0 35
2 " "	30	8 " "	60

GLASS FORMS,

FOR TRIMMING PHOTOGRAPHIC PRINTS.

Made of polished glass with beveled edge.

4 x 5,	\$0 60	6½ x 8½,	\$1 25
5 x 8,	1 00	8 x 10,	2 00

SCALES AND WEIGHTS.

5 inch. beam, weighing grains and drams,	\$0 75
6 " " " " " " " " " "	1 00

Standard Scale, 5½ inch beam, 2 inch brass pans with upright beam, on walnut stand; all packs in drawer.

Price, - - - - - 5 00

BLOTTING PAPER.

EXTRA HEAVY, WHITE.

9 x 12 inches, per dozen sheets,	\$0 40
12 x 19 " " " " " " " " " "	75
19 x 24 " " " " " " " " " "	1 50

VULCANITE DEVELOPING TRAYS.

4 x 5 each,	\$0 20	6½ x 8½, each,	\$0 30
5 x 8, " "	25	8 x 10, " "	40

AGATE WARE PANS.

Excellent for toning. Stronger and lighter than porcelain and not liable to breakage.

Dimensions given are for inside of the bottom of the pan.

7½ x 9 inches,	\$0 80	8½ x 12½ inches,	\$1 00
8½ x 10 " "	90	12 x 14, " "	1 25

CAMEL'S HAIR BRUSHES,

For dusting off plates before exposure and for mounting.

1 inch wide,	25 cts.	2 inch wide,	40 cts.
1½ " " "	30 " "	2½ " " "	50 " "

BRISTLE BRUSHES,

FOR MOUNTING OR VARNISHING.

1 inch wide,	\$0 15	2 inch wide,	\$0 30
1½ " " "	20	2½ " " "	40

OTHER ACCESSORIES.

Negative Varnish, (4 oz. bottle),	each	\$0 50
Concentrated Intensifier, (4 oz. bottle),	"	30
Chloride of Gold, (15 grain bottle),	"	75
Acetate of Soda, (2 oz. bottle),	"	20
Hypo-Sulphite Soda, (1 lb. box),	"	10
Concentrated Developer, A, (4 oz. bottle),	"	50
" " B, (2 oz. bottle),	"	20
Focusing Cloths, Velvet or Gossamer,	"	1 00
Stronger Water Ammonia, (4 oz. bottle),	"	40
Pyrogallic Acid,	per ounce,	50
Sulphite of Soda,	per pound,	40
Carbonate of Potash,	"	20
Bromide Ammonia,	per ounce,	20
Bi-Carbonate of Soda,	"	10
Carbonate of Soda,	"	10
Phosphate " "	"	15
Citrate " "	"	20
Chloride of Lime,	"	10

CHEMICAL OUTFIT,

FOR PRODUCING THE NEGATIVE.

The chemicals and articles which should accompany any of our cameras and with which the picture is made, consist of the following articles arranged in sizes according to the size of camera used: Two Vulcanite Developing Trays; one doz. Dry Plates; one 4-ounce Graduated Glass; one 4-ounce bottle Concentrated Developer, A; one 2-ounce bottle Concentrated Developer, B; one 1-pound box Hypo-Soda; one Pocket Ruby Lantern; one copy Amateur Photographer, (see back cover). Above arranged for a 3¼ x 4¼ camera, \$2 75. For a 4 x 5 camera, \$3 00. For a 4¼ x 6½ camera, \$3 40. For a 5 x 8 camera, \$3 75. For a 6½ x 8½ camera, \$4 50.

PRINTING OUTFIT

FOR PRINTING, TONING AND FINISHING THE PICTURE.

Consists of the following articles: One Printing Frame; one package Sensitized Albumen Paper; one 15-grain bottle Chloride of Gold; one 2-ounce bottle Acetate of Soda; one package enamelled, figured back Card Mounts. Above arranged for a 4 x 5 camera, \$2 25. For a 4¼ x 6½ camera, \$3 00. For a 5 x 8 camera, \$3 25. For a 6½ x 8½ camera, \$3 75.

TO AMATEURS.

We omit the usual "Outfit Department," which we deem unnecessary, as our cameras are complete with the exception of the Ideal and 8 x 10 New Model Improved, which we list in this way for the reason that most people who buy this class of camera, and especially 8 x 10 and above, prefer one of the higher grade of lens, and many people, especially professionals, have one or more lenses and tripods, and wish only the camera, without these articles,

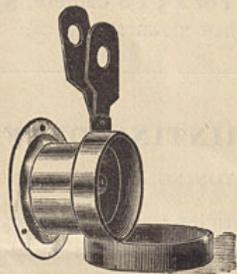
Should you select one of the Ideal cameras you have only to add price of lens and tripod selected, which makes the camera *complete*. In the case of the 8 x 10 New Model Improved you have only to add price of lens as tripod is included.

To the price of the complete camera add the price of the Chemical and Printing outfits, corresponding to the size of camera selected, which will be *everything necessary* to take pictures.

LENSES.

For landscape work the Single View Lens is most used. It gives good results and will even make good interiors and portraits.

R. O. CO.'S SINGLE VIEW LENS.



These lenses are conceded to be the best of the low priced lenses. They have the qualities most sought in a view lens, clear definition, and great depth of focus. They are mounted in a nickel plated mount with *three removable* diaphragms, a point of the greatest importance to compensate for the varying strength of different lights. This is the only low priced lens in market having this important feature, all others having one permanent diaphragm, which has to be used for all degrees of light and preventing the taking of instantaneous views, which on account of the exceedingly short period of exposure requires a much larger diaphragm than for a time exposure with the cap.

Though designed for landscape work, they will make excellent interiors and even portraits in a well lighted room or on a porch.

No. 1—Stereoscopic, per pair,	-	-	-	-	\$7 00
" 1—4 x 5	6 inch focus, each,	-	-	-	3 50
" 2—5 x 8	10 " " "	-	-	-	4 50
" 3—6½ x 8½,	11 " " "	-	-	-	5 50

For those who desire a higher grade of lens we list the following which are the most celebrated and will be found to fully warrant the claims of the respective makers. We are willing to guarantee them to be all they claim.

GUNDLACH'S RECTIGRAPHIC LENS.

We are special agents for the sale of this lens. Mr. Gundlach's name as an optician of note, is well known in this country and Europe.

The Rectigraphic is absolutely rectilinear and free from flare.

It is especially adapted for groups, architectural subjects, landscapes, and instantaneous work, as, owing to its peculiar construction it gives the greatest possible depth of focus, even when working with full opening, which renders it exceedingly quick working.

No.	SIZE OF PLATE.	LENGTH OF FOCUS.	PRICE.
1	4 x 5	4½ in.	\$30 00
2	5 x 8	6½ "	39 00
3	6½ x 8½	9 "	45 00
4	8 x 10	12½ "	64 00
5	10 x 12	16½ "	75 00

Above embraces an angle of from 60 to 80 degrees, according to diaphragm used. With full set of diaphragms in morocco case.

VOIGTLÄNDER'S EURYSCOPE.

This Lens stands unrivalled for groups, full-sized figures and large heads, working, as it does, with full aperture and giving a depth of focus and equal distribution of light as yet unequalled by any known instrument.



No.	LENGTH FOCUS.	SIZE.	PRICE.
0	4½ inch.	4 x 5	\$27 00
1	8 "	5 x 8	45 00
2	10 "	6½ x 8½	52 00
3	11 "	8 x 10	65 00

Ross' Portable Symmetrical Lens.

For landscapes, architecture and copying, giving wide or ordinary angles, according to size of diaphragm used, giving extraordinary definition and flatness of field. On account of above properties, as well as the exceedingly portable form in which they are constructed they are much used by amateurs and are great favorites.

No.	LENGTH FOCUS.	SIZE.	PRICE.
a 3	5 inch.	4 x 5	\$28 00
a 4	6 "	5 x 8	32 00
6	8 "	6½ x 8½	48 00
8	10 "	8 x 10	64 00

Darlot Rapid Hemispherical Lens.



These Lenses embrace an angle of from 60 to 75 degrees; are quick working, perfectly rectilinear and will be found excellent for landscapes and out-door groups. Also for copying maps, engravings, architectural plans, etc.

No.	LENGTH FOCUS.	SIZE.	PRICE.
1	5½	4 X 5	\$15 00
2	9	5 X 8	25 00
3	10½	8 X 10	35 00
4	14	11 X 14	50 00

WIDE ANGLE LENSES.

Wide-Angle Lenses are used mostly for street views, architectural effects in confined situations and interiors, embracing, as they do, an angle of from 90 to 100 degrees, they admit of being much nearer to the object photographed. They are not so quick-working as those of ordinary angles. In most of these the back combination is removable which doubles the length of focus and makes a *single* lens of ordinary angle, thus in reality, having two lenses in one.

Gundlach's Wide-Angle Rectigraphic Lens.

The Wide Angle Rectigraphic has all the good qualities of the Rectigraphic of ordinary angle.

No.	LENGTH FOCUS.	SIZE.	PRICE.
1	3 inch,	4 X 5	\$30 00
2	4 "	5 X 8	40 00
3	6 "	8 X 10	50 00

Voigtlander's Wide-Angle Euryscope.



No.	LENGTH FOCUS.	SIZE VIEW.	PRICE.
0	4½	4 X 5	\$29 00
1	5½	5 X 8	34 00
2	6½	6½ X 8½	39 00
3	7½	8 X 10	48 00

Darlot's Wide-Angle Hemispherical.



No.	LENGTH FOCUS.	SIZE.	PRICE.
2	3	4 X 5	\$15 00
3	5	6½ X 8½	20 00
4	8	8 X 10	25 00