Special Catalogue G, 1896-1897

IT TELLS ABOUT

Photographic Apparatus and Material 2000

and may be accepted as a standard authority on everything pertaining to the fascinating pursuit of photography, in all its branches,

The use of the Camera is rapidly becoming universal, and its popularity second only to that of the Bicycle, to which, by the way, the Camera, or Kodak, make a delightful accessory,

Scann The Ladies

are taking up amateur photography to a surprising extent, and the simplicity of the process, and ease with which all its details can be acquired, renders its ever increasing popularity a foregone conclusion.

We invite your correspondence whenever intending any purchase, little or large, in either Photographic Goods, or in Magic Lanterns, Sciopticons, Stereopticons, Etc. You can be sure of a quick, careful and courteous reply, and sure, also, that we are fully equipped to serve you as you like to be served, with the best possible goods at best possible values.



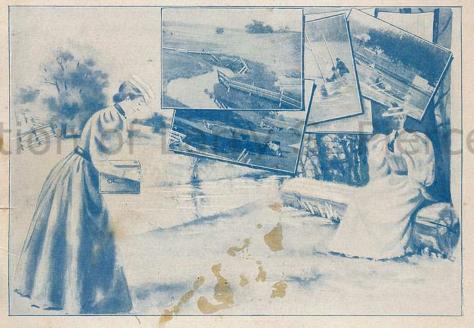
Originators of the Mail Order Business......

111 to 120 Michigan Avenue,

.....CHICAGO

W. F. Hall Printing Company, Chicago

CATALOGUE 6 1896 DHOTO RAPHIC ADDORATERIALS



MONTGOMERY WARDS (O. MONARCHS OF THE MAIL ORDER BUSINESS). 111 10 120 MICHIGAN AVENUE CHICAGO

A FEW GENERAL EXPRESSIONS

Indicating the extent of our facilities for serving you, and our hearty willingness to give you their full benefit.

This catalogue is intended to be complete in its exhibit of

Photographic **Apparatus**

But no catalogue could be compiled that would contain everything of interest to professionals and amateurs alike. The rapid development of new processes, and the restless activity of the inventive age in which we live render that impossible. We are in the closest possible touch, constantly, with the latest phases of the market, and are ready to inform you quickly and reliably upon request concerning any goods in the lines indicated in this catalogue. Our equipment of

> MAGIC LANTERNS, SCIOPTICONS, STEREOPTICONS, DISSOLVING VIEW APPARATUS, ETC. Is only partially represented here,

The very great and growing demand for the photographic materials made their ample representation imperatively necessary, and the other lines were unavoidably crowded for space. But our STOCK is very complete, and you have only to make enquiry about anything not listed in this catalogue, and you will receive prompt and painstaking information,

WRITE US FREELY.

We have a large force of correspondents whose sole duty it is to make thorough reply to all business queries,



The Great Mail Order House.

111 to 120 Michigan Avenue, CHICAGO.

Originators of the Mail Order Business.

TO OUR CUSTOMERS.

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

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

OUR TERMS ARE CASH IN ALL CASES.

At least one-third of the total cost must accompany all orders for Cameras and outfits shipped C. O. D. We do not ship Photographic Outfits on trial, nor can they be returned after having been used, as a very little use of a Camera renders it second hand, and we have no means of disposing of second hand goods.

No goods will be sent by express to points off a railway, unless paid for. When ordering goods to be shipped by mail, be sure to allow enough for

postage. If you send too much we will refund the balance. Our responsibility ceases when we have obtained a receipt in good order

from the transportation company,

AS TO PRICES

OUR POLICY HAS ALWAYS BEEN TO SELL GOODS AT AS LOW A PRICE AS WE COULD AFFORD TO DO WITHOUT REGARD TO THE MARKET OR TO ESTABLISHED PRICES. We allow discounts as follows, when money accompanies the order, and in no other case :

On orders amounting to \$20.00 and up to \$50.00, 2 per cent. discount. On orders amounting to 50.00 and up to 100,00, 3 per cent. discount.

On orders amounting to 100.00 and up to 150.00, 4 per cent. discount.

On orders amounting to 150.00 and upwards ____ 5 per cent. discount.

Except where prices are stated as "NET."

We would like to call the attention of our patrons to our Magic Lantern Apparatus and Accessories. We can furnish nearly everything in Magic Lanterns, Stereopticons, Views, Screens, etc. Everything necessary for the Lantern Exhibitor's use. If interested send for special catalogue.

AMATEUR PHOTOGRAPHY

is growing more and more in favor the world over. It offers greater attractions than all the arts heretofore introduced in popular form, for while it answers fully the requirements of mechanical taste, it offers constant opportunities for the exercise of other intellectual qualities.

Since the introduction of the hand cameras, picture making has been so simplified that the possibilities of photography are brought within the reach of all. The amateur photographer is now found among persons in nearly every walk of life. The business and professional man finds photography a valuable assistant as well as a pleasant recreation.

TO THE TOURIST,

Whether he travels by rail, boat, or on the ever popular bicycle, it affords a never ending source of enjoyment. To record with accuracy the events and scenes of his tour is an enjoyment at the time, and a greater one when he sees the finished photograph.

THE SPORTSMAN

will find the camera a valuable companion. Pictures of camp-life will prove intensely interesting to the friends at home, who are thus enabled to catch a glimpse of life in the woods. Then, too, they are not "fish stories" when you can show a photograph of the "catch." A camping outfit is not complete without a camera. Surely there is no more pleasant souvenir of vacation rambles than photographs made by one's self, of the various scenes and incidents connected with one's outings. Many recollections are thus preserved and the history of the pleasant holiday is brought to mind by a glance at the finished picture long afterward.

FROM A PRACTICAL POINT OF VIEW

landscape photography offers pleasing and profitable employment, as is attested by the many "Viewing Companies" now on the road. It offers an excellent method of paying expenses of travel to those who are compelled to seek change of climate without the necessary means to do so; as the work is light and persons in delicate health have little difficulty in carrying on the business satisfactorily.

CAN I SUCCEED?

This is a question frequently asked us. Our answer is "Yes." We wish it were more generally known how easy it is to make the most beautiful photographs. Provided the amateur is supplied with apparatus of approved quality, we have no hesitancy in emphasizing the statement that anyone of average intelligence and ability can readily produce pictures of the most satisfactory character without previous experience.

All Photographic Outfits that we sell are accompanied with full instructions. These are so explicit that anyone of intelligence, by following them closely, can soon acquire the knowledge necessary to properly operate the Camera, develop the plate (or film) and print and finish the picture.

THE CHOICE OF A CAMERA

Is dependent largely upon the personal preference of the purchaser, and should be regulated by the use to which it is to be put; whether for pleasure only or as a means of livelihood. Some amateur photographers prefer the use of "film" because of its greater compactness as compared with glass plates. Others use glass plates because experience has taught them that the best results are obtainable from plates. A happy medium is the hand Camera, in which either films or plates can be used.

FOR THE PROFESSIONAL PHOTOGRAPHER'S

Use or for he who is desirous of entering the field as a means of livelihood, the View Camera and necessary lens, tripod and plate holders is the proper equipment.

THE PORTRAIT PHOTOGRAPHER

As a rule uses the regular Portrait Camera and camera stand (instead of a tripod) although this is not absolutely necessary, as many portrait artists who cannot afford the high priced portrait apparatus use their viewing outfits for gallery work.

FOR PORTRAIT WORK

In the studio a high grade rapid rectilinear lens should be used, as in the gallery the negative is produced under much more difficult conditions as applied to light, shade, subject, etc., than applies to the taking of groups, landscapes, etc., in the open air, and the working speed of the lens is the great requisite.

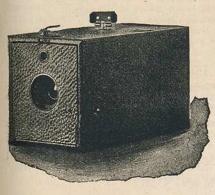
In the following pages we offer for your consideration, apparatus suitable for

the use of the amateur and professional photographer and of the tin-typer.

A conscientious effort has been made to list only goods of known quality, and our patrons can rest assured that in purchasing they will receive the best possible value for money expended.

EASTMAN KODAKS.

No. 2 Kodak.



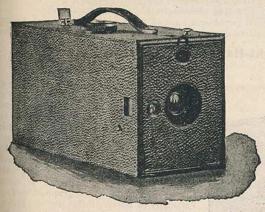
Equivalent focus of lens, 31/4 inches; working angle, 56°. Uses films only. For round pictures, 31/2 inches diameter; capacity, 100 exposures without reloading; size, $4\frac{1}{2}$ x 5 x 9 inches, or 202 cubic inches; weight loaded, 2 lbs. 12 oz. This Kodak is provided with a finder, a counter for exposures and a set of three stops for the lens. The lens has great depth and definition; the largest stop is used for instantaneous street work, the middle stop for interiors, and the smallest for timed exposures out of doors. Negatives from this Camera make a very pretty lantern slide when masked down to 23/4 inches in diameter. The advantage of this

Camera is that it requires no focusing and as the picture is round it requires no care to hold the camera square with the object.

Price No. 2 Kodak, loaded with 60 exposures, including sole leather carrying

inch spool for 60 exposures 31/2 inches diameter, new transparent film 2 50 Spool for 100 exposures

No. 3 Kodak.



Equivalent focus of lens, 55% inches; working angle, 42°. (If measured on the diagonal, is 47°.) USES FILMS ONLY. For rectangular pictures, 31/4 x41/4; capacity, 250 exposures without reloading; size, 41/4 x 51/4 x111/2, or 2681/2 cubic inches; weight loaded, 4 pounds, The No. 3 Kodak is provided with two finders, one for horizontal and one for vertical pictures. Bausch & Lomb Universal Lens, an instantaneous shutter, having rotating stops and adjustable speed, rack and pinion for focusing, two sockets for tripod screws when used for

vertical or horizontal time exposures, and a counter for exposures. The No. 3 Kodak is the favorite with those who make negatives with a special view to using them for lantern slide printing.

Price of No. 3 Kodak, loaded with 60 exposures, including sole leather car-

rying case, ______\$36 00
Note.—The price includes spool of 60 exposures only; but the Camera is capable of receiving spool of 250 exposures.

41/4 inch spool for 60 exposures 41/4 x31/4, transparent film _____ 2 50 Spool for 100 exposures 4 25

No. 4 Kodak.

MONTGOMERY WARD & CO., CHICAGO.

USES FILMS ONLY. For illustration see cut of No. 3, these two cameras being exactly the same in appearance. For 4x5 rectangular pictures; capacity, 250 pictures without reloading; Size, 5x63/8x123/ =406 cubic inches, weight loaded, 4½ pounds. Equivalent focus of lens, 6½ in.; working angle, 42°. If measured on the diagonal the angle is 50° The No. 4 Kodak has two finders, one for vertical and one for horizontal pictures. Bausch & Lomb Universal Lens, an instantaneous shutter, having rotating stops and adjustable speed, rack and pinion for focusing, two sockets for tripod screws when used for vertical or horizontal timed exposures, and a counter for exposures. The No. 4 Kodak makes 250 pictures 4x5 inches without reloading.

Price of No. 4 Kodak loaded with 48 exposures, including sole leather carrying case, \$45 00 Note.—This price includes spool of 48 exposures only, but the camera is capable of

Spool for 100 exposures 6 25

NOTE! For the convenience of those Photographers who enjoy making the

exposures but who do not care to do their own Developing and printing, we will be pleased, upon request, to send price lists, and to refer the inquirer to thoroughly reliable parties who make a specialty of this line of work.

HAND CAMERAS.

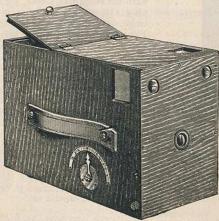
The Photake.



Uses glass plates only. Strongly made of seamless brass, handsomely oxidized, circular in shape, the diameter being 4 inches; depth. 21/4 inches. Has a capacity of five plates without reloading and makes a picture 2x21 inches, Suitable for either "snapshot" or time exposures and is a thoroughly practical miniature camera.

Price, including six dry plates, developing and fixing chemicals, blue print paper, ruby paper and book of instructions......\$2 25 Extra dry plates, per dozen..... 20

The Night-Hawk Hand Camera.



The only morocco covered 4x5 Camera in the market sold at as low a price. Especially adopted to beginners in photography. The Night-hawk is fitted with an achromatic lens, the shutter is adapted for either time or instantaneous exposures, is very simple and easily worked; it has two view finders and a brass focussing dial, the former enabling the operator to view the subject to be photographed either vertically or horizontally, and the latter indicating the number of feet the camera should be placed from the object to be photographed. Each camera is fitted with a stationary ground glass screen, full size of plate, for focussing for time exposure. The camera is substantially and durably constructed of wellseasoned hardwood, morocco covered.

The Night-hawk will carry three double holders. Printed instructions accompany Price, morocco leather covered, including one double plate holder............\$4 25

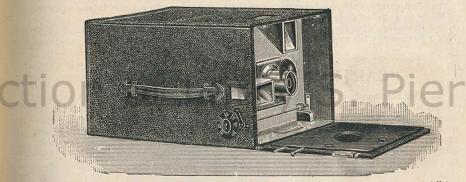
The Kombi.



A small, thoroughly practical, pocket camera, made of metal, bronze finished, measures 2x11/2 inches, and weighs, when loaded for twenty-five exposures, about four ounces. It uses films only, and makes a picture 11/8x11/8 inches square, or a circle picture 11/8 inches in diameter. With the Camera is combined a Magnifying Graphoscope, for viewing the photographs when developed and printed upon a strip of translu-

cent material. Price in cloth-covered case _____\$3.00 Roll Film, for 25 exposures ______20 Box of 5 Rolls of Film (for 25 exposures each) 1 00 Complete Developing and Printing Outfit 3 00 Magazine containing extra loading 1 50 Rubber Loading Sleeve _______60 No. 2 Staff Tripod with plate _____ 2 00

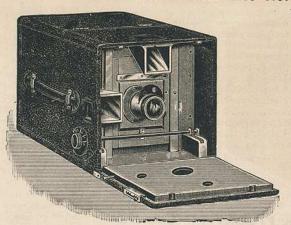
The Premier 4x5 Camera.



Uses either glass plates, cut films or roll films. A high grade "all around" in strument, equal to any in the market at anywhere near the price and possess ing some advantages over all others. Boxes are well made, covered with grain leather, and are made to carry either four or six double plate holders. They are fitted with the new silent time and instantaneous shutter, a novel device that works without noise or jar. The speed being regulated at will of operator from a slow instantaneous movement to one of great rapidity. Fitted with either single view or rapid rectilinear lenses with rotating diaphragms of the well known R.O.Co.'s make. Each camera is provided with two view finders and two tripod plates, so that either vertical or horizontal pictures can be made. The back panel is removable allowing the ground glass screen, full size of the plate, to be seen for focussing, thus permitting the operator to use the Premier as a regular view camera. The camera for four plate holders measures 61/4 x63/4 x11 inches, and weighs four pounds. The one for six holders measures 11/2 inches longer. Made in 4x5 size only. Prices are for camera complete with one Perfection plate holder and nstruction book.

Premier, with one plate holder_____\$12 75 With rapid rectilinear lens _____ 17 85 Extra Premier plate holders Facile Film Holder (for cut films) 1 05 Roll Holder, empty 7 2c
Roll of Films, 24 exposures 1 50
Roll of Films, 48 exposures 3 00 Canvas Covered Case for Premier, with shoulder strap 2 25 Leather """ 2 27

The Premier 4x5 No. 2.



With swing back, rising and falling front. The Premier No. 2 is the regular Premier with the addition of swing back and rising and falling front. In other respects the description of the regular Premier applies to the No. 2, as do the prices of holders, accessories, etc. The swing back and rising and falling front are used principally when using the camera on a tripod, and are of especial advantage when taking architectural subjects-tall buildings, etc. A hand camera with

these improvements possesses many of the advantages of a regular tripod camera. Made in 4x5 size only,

No. 2 Premier, with single view lens and one plate holder ______\$15 30 No. 2 Premier, with rapid rectilinear lens and one plate holder ______ 20 40

"CARTRIDGE SYSTEM" CAMERAS.

Under this heading are listed those instruments ordinarily known as "Daylight Cameras." They are the latest form of the popular hand camera, and in these are used roll film (cartridges) so protected that the camera can be loaded in broad daylight, no dark room being necessary for the purpose. By their use the difficulty of reloading the camera is reduced to the minimum, and their great popularity attests the appreciation in which they are held by those amateurs who seek a camera that will give them the best results and the least trouble.

The "Baby" Hawkeye.



The Baby Hawk-Eye has been designed for those who do not care to be encumbered with a large Camera. The dimensions are but $2\frac{1}{2}x3\frac{1}{4}x4$ inches, which allows the user to carry the Camera in the pocket without difficulty, while the size of the picture measures $2x2\frac{1}{2}$ inches. All of the improvements and advantages of larger Cameras are furnished, including a brilliant finder, and automatic register which always shows when an exposure is made. It is covered with handsome grained leather and makes a handsome appearance. The shutter is re-

liable, fitted for both time and instantaneous work, seldom gets out of adjustment, is always set, and a slight pressure upon a lever permits the light to strike the sensitive surface of the film and at the same time prepares itself for the next exposure. Film for this Camera is furnished in rolls sufficient for making 12 exposures, and can be loaded and unloaded in broad daylight.

The Baby Hawk-Eye	40
Leather Carrying Case	00
rims per Roll of 12 Exposures	26
Complete Developing and Printing Outfit	00

The Hawk-Eye Jr. (daylight) Camera.



For roll films or glass plates. In constructing the Hawk-Eve Ir., the aim has been to furnish a camera at a moderate price, especially adapted for the traveler's use, and capable of doing first-class work. This camera is very small in dimensions, measuring but 41/2 x 43/4 x 61/2 inches, and has a capacity for film of 25 exposures, making a negative 31/2 x 31/2 inches. Glass plates can also be used. It has a square finder which allows the view to be centered accurately upon the surface of the film or plates. The lens is a single achromatic set focus, of extra quality. The shutter can be used for both time and instantaneous work, the length of time for the exposure being

easily governed. The box is covered with extra fine grain leather, and the loading and unloading is done without the use of a dark-room, as the film can be adjusted in broad daylight.

be adjusted in broad daylight.	
Price, covered with black grain leather	50
Double holders for dry plates	85
Sunlight Films for Hawk-Eye Jr., 12 exposures	55
Sunlight Films for Hawk-Eye Jr., 25 exposures	IO
Dry Plates, size 3½x3¼, per dozen	25
Complete Developing and Printing Outfit	45

The 4x5 Hawk-Eye Jr

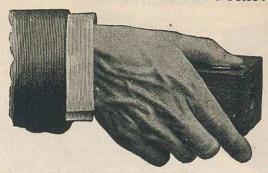


For roll film or glass plates. There has been a long felt need among the amateur photographers for a camera adapted for both plate and roll films, making a picture as large as 4x5 inches in size, being compact, and still furnished at a moderate price. The 4x5 Hawk-Eye Jr., supplies this want in every way, being very small for a camera making so large a picture, measuring but 5\(^4\x6\)\(^4\x9\) inches, and still having capacity for roll film and plate holder. Capacity for films 18 exposures. The design is similar to the smaller Hawk-Eye Jr., although different in some respects. The lens is a first-class single achromatic, of the best quality, and is arranged with focussing lever and scale; both

vertical and horizontal finders, interior ground-glass screen, automatic registering tally, showing number of exposures made, and two tripod plates for time work are provided. The method of setting the shutter is simple. It has a time exposure stop, which is easily operated without any jar to the camera. This camera uses the Sunlight film, and can be loaded and unloaded in broad daylight.

The 4x5 Hawk Eye Jr., covered with black grain leather\$1	4	10
Double Holders, for dry plates	. 8	85
4.5 Sunlight Film Cartridge, 12 exposures		77
4x5 Sunlight Film Cartridge, 18 exposures	ı	13
Complete Developing and Printing Outfit	3 8	30

The Eastman Pocket Kodak



Is not a toy, but a practical Camera that will do everything that a larger one will do, but on a smaller scale, It measures 2½x2%x3% inches, weighs 5 ounces and makes a picture 1½x2 inches. It uses either Roll Films or Glass Plates, having a capacity for films of 12 exposures and can be used for either snap shot or time exposures. It is covered with fine seal leather and in appearance is neat and handsome.

Pocket Kodak, with complete manual of instruction, and one roll film. Net \$5 00 Leather Hand Carrying Case, to hold Pocket Kodak and three extra spools

- attier trand Carrying Case, to hold I ocket Rodak and time extra spoors		
of film. Price of case only		75
Leather Bicycle Carrying Case, to hold Pocket Kodak and three extra		
spools of film. Price of case only	1	00
Box of Film, 4 spools, 12 exposures each	I	00
Single spool of 12 exposures		25
Single Glass Plate Holders		25
Thin crystal glass dry plates, 11/2x2 inches. Per dozen		20
Complete Developing and Printing Outfit	2	75

Improved No. 2 Bulls-Eye (1896 Model).



For square pictures, $3\frac{1}{2}x3\frac{1}{2}$ inches; capacity, 18 exposures without reloading; size of oamera, $4\frac{1}{2}x4\frac{1}{2}x5\frac{3}{4}$ inches; weight, 18 ounces. This camera is built on the "Cartridge System," and can be loaded in daylight. Fitted with achromatic lens, set of three stops, socket for tripod screw, and improved rotary shutter for snap shots or time exposures. The slides for changing stops and for time exposures are alongside of the exposure lever and always indicate by their position what stop is before the lens, and whether the shutter is set for time or instantaneous exposure. There is, therefore, no danger of the too common error of making snap shots with the smallest stop in the lens, or setting the shutter for a time expo-

sure when a snap shot is intended, or vice versa. Handsomely finished and covered with leather.

with leather.	
No. 2 Bulls-Eye, fitted with achromatic lens, not loaded	00
Light-proof Film Cartridge, 12 exposures, 3½x3½	60
Black Sole Leather Carrying Case	25
Complete Developing and Printing Outfit	45

Improved No. 4 Bulls-Eye (1896 Model).

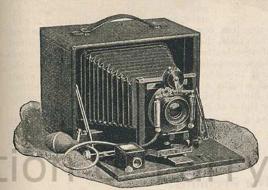
For rectangular pictures, 4x5 inches; capacity, 12 exposures without reloading; size of camera, 478x578x914 inches; weight, 2 pounds 2 ounces. It is fitted with achromatic lens of sucprior quality, having a set of three stops; has two finders, one for vertical and one for horizontal exposures. Fitted with improved rotary shutter, for snap shots or time exposures. It has a carefully adjusted focussing scale, and being built on the "Cartridge System," can be loaded in daylight. Handsomely finished and covered with leather.

N	o. 4 Bulls-Eye, fitted with achromatic lens, not loaded\$12	2 (00
L			90
В	lack Sole Leather Carrying Case 2	1 0	00
C	omplete Developing and Printing Outfit	3	80

Folding Hand Cameras.

Folding cameras are exceedingly popular, as by the style of their construction much greater compactness is secured than it is possible to obtain with the regular style boxes. They are extremely simple to open, ready for use. Merely lower the front of the camera, which forms a bed, and draws the front with lens forward, the final adjustment being made with the apparatus placed at the front for that purpose. The appearance of these folding cameras are especially handsome, as the entire front and bed are made of polished mahogany or cherry, which contrasts perfectly with the black leather covering.

The Premo Sr.



The Premo Sr. represents the very highest type of the hand camera, and is a favorite amongst those desiring a strictly high grade camera, possessing the latest adjustments and adapted for use for either the advanced worker or the novice in the art. The Premo Sr. is made from selected mahogany, covered with fine black leather, and combines all the essential features necessary for either hand or tripod work, in the most compact form, and at same time is simply manipu-

lated. It is fitted with double swing back, double sliding front and rack and pinion for focusing, the working parts of which are entirely within the the case. The camera is self contained, and when closed is merely a neat leather covered box. The double sliding front is an important feature and will be found convenient for work in confined situations. There are two tripod plates and a panel at the back for focusing, and a reversible view finder is attached to the bed for upright or horizontal pictures. The lens is a rapid rectilinear, adapted for all classes of work. This lens may be removed from the shutter and a wide angle substituted when desired, as the cells of both lenses are interchangeable. The shutter is the improved Victor, with Iris Diaphragm, for both time and instantaneous exposures, fitted with pneumatic release; it works between the lenses without noise or jar. The speed is regulated by turning a metallic disc to the right or left, the degrees of speed being indicated by numbers. The Premo Sr. has a removable lens board, so that other lenses and shutters may be adapted if desired, and the ground glass screen is spring acting. Glass plates, cut and roll films may all be used as the holders are interchangeable. The plate holder is the regular Premo holder with rubber slides. The roll holder is the latest pattern, fitted with automatic indicator for registering the number of exposures made. The change from glass plates to films is but the work of a moment, and as the roll holder is provided with a shield, it is not necessary to resort to a dark room. The size of the 4x5 Premo Sr. when closed is only 4%x5%x7 inches, including space for three double holders, and it weighs but 23/4 pounds.

31	4 ×4	1/4	4X	5		5	×7	6½ x8	51/2
Premo Sr. and I Plate Holder \$	25	50	\$25	50	. \$	34	00	\$42	50
Extra for Wide Angle Lens			9	00		10	80	13	50
Cut Film Holders	1	15	I	15		I	35	I	58
Dry Plate Holders	1	05	1	05		I	27	I	40
Roll Holder, empty	9	00	9	00		ΙI	25	14	40
Roll of Films60 exp			Savn a	00	32 exp.			24 exp. 4	
Kon of Films	1. 4	50	40 CAP. 3	00	54 "	6	00	48 " 8	00
Leather Covered Carrying Case	2	25	2	25		2	70	3	00

The Premo A.

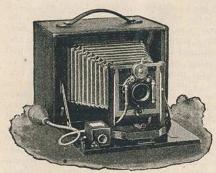


Identical with the Premo Sr., except that it is provided with single instead of double swing back and with rising and falling front only, instead of double sliding front, and with the regulation focussing lever, instead of the rack and pinion. Designed especially for those amateurs who want a first-class hand camera but who do not care to pay for the later improvements embodied in the Premo Sr. The lens is a fine rapid rectilinear, made especially for this camera and is adapted for general work. It may be removed from the shutter and a wide angle substituted when desired, as the cells of both lenses are in-

terchangeable. It has removable lens board. The Premo is made in the best possible manner, of the best materials, the box is made of mahogany, polished inside, and covered with handsome leather outside. The holder is the Premo double holder, with rubber slides, conceded to be the simplest and best in the market. The camera will carry three holders. The 4x5 size measures, when closed, 45x55x5x5 inches, and weighs a trifle over two pounds. Uses either glass plates, cut films or roll films. Prices on extra plate holders and other accessories are the same as for those of Premo Sr.

Price, with one plate holder 3\frac{1}{2} \text{x4\frac{1}{4}}	\$2	17	
Price, with one plate holder 4x5	,φ2	. 1	4
Delegation one place holder 4x5	2	15	25
Price, with one plate holder 5x7		28	or
Price, with one plate holder 61/2x81/2			
	3	38	25

The Premo B.

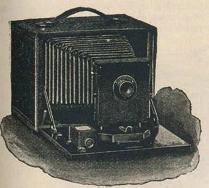


The Premo B is patterned closely after the Premo A. While not so highly finished as the more expensive outfits, yet the same care is exercised in its construction throughout. It is provided with central swing back and rising and falling front, thus adapting it for both hand and tripod work. It is also fitted with the Victor (Iris diaphragm) shutter, and the Victor's single view or rapid rectilinear lens as may be preferred. The rapid rectilinear lens is precisely the same as fitted to the Premo A. A reversible view finder is fitted to the bed for both vertical and horizontal pictures; also

two tripod plates for attaching the camera to a tripod. The ground - glass screen is spring actuated, and recedes to allow the insertion of the plate-holder. Glass plates, cut and roll films may all be used, as the holders are interchangeable. Premo B will carry three double plate-holders. The outside dimensions of 4x5 are only 45x55x5% inches, and the weight two pounds. It is handsomely covered with fine black leather and has a leather handle for carrying.

	4×5	5×7	7
Premo B, with one plate-holder	\$13 60	\$19 5	55
With rapid rectilinear lens	TH SE	25 5	
Extra Fremo Plate Holders	TOF	7 0	
Cut Film Holders	TITE	1 3	37
Roll Holder, empty	9 00		
Roll of Films48 exp.	3 00	32 exp. 4 0	
Leather Covered Coce	9		00
Leather Covered Case	2 25	2 7	10

Premo C.



This camera is carefully made, the workmanship being of the best. It is exceedingly neat in appearance, being shellacked inside and covered with fine black leather outside. It is provided with swing back and sliding front. The back swings from the center. Premo C is fitted with single view or rapid rectilinear lens, as may be preferred. It has new safety shutter, a neat and effective device for all classes of work. The shutter is quickly set by a lever at the side, the leaves remaining stationary. The ground-glass screen on Premo C is spring acting, and recedes to allow the insertion of the plate-holder. A hinged panel at the back permits the

full sized image to be seen while focusing. Two tripod plates are fitted for using the camera as a regular view camera. The view finder is attached in a convenient position on the bed, and is reversible for both upright and horizontal pictures. Glass plates, cut and roll films may all be used. From the above description it will be seen that Premo C is fitted with the necessary adjustments for the large and varied character of work usually attempted by the ambitious amateur. We can heartily recommend it to all desiring a thoroughly practical camera, yet at a moderate price. Dimensions are the same as style B, as are prices of extra plate holders, accessories, etc.:

4x5

Premo C, with one plate holder

\$10 20

\$17 00

Premo C, with rectilinear lens

14 45

The Premo D



The style of Premo is like style C, except it is without the swing back and spring actuated ground-glass screen. The same care is exercised in its construction as in the others of the series, and this camera will prove very popular among those who do not care for the adjustments named. The same shutter and lenses are used as on style C. Premo D 4x5 when closed measures 5½x5½x6½ inches, weighs only two pounds, and will hold three plate-holders, or roll-holder. As will be seen from the above description Premo D is a thoroughly practical camera, and will fully meet the demands of a large class of amateurs. It is the best

folding camera ever offered at so low a price. Glass plates, cut and roll films may all be used. Prices on extra plate-holders, accessories, etc., are the same as for Premo's "C," "B," etc.

4 x 5 5 x 7

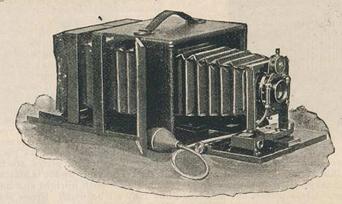
STUDY AND COMPARISON

of values of apparatus listed in this book must convince the careful amateur that he can do no better than to purchase his materials of us.*************

3 15

The Long Focus Premo

Is built in the same substantial manner as the Premo Sr. As its name indicates it possesses an extra length of bellows, thus adapting it for copying, reducing and enlarging, and for use with lenses of extra long focus, as well as the usual style, thus covering a field never before reached by the hand camera.



When not fully extended the Long Focus Premo is similar in appearance to the Premo Sr., and though but a trifle larger than the Senior, it has nearly double the focal capacity.

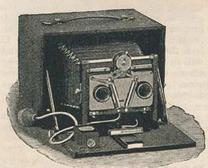
The extra length of both is obtained by the addition of a folding back. By simply touching a spring at the top, the back of the camera will drop, forming a bed, upon which the rear portion of the camera carrying the ground glass screen will slide. A glance at the illustration above will convey the idea

The lens is the Victor Rapid Rectilinear *Being symmetrical the front combina-tion may be removed and the rear lens used for long-distance work. The Long Focus has all the adjustments and is fitted with the same kind of lens and shutter as the Premo Sr. Prices of dry plate holders and other accessories are the same as for the Premo Sr.

8xIO Focal capacity or length of bellows . . . 15 inches. 19 inches. 22 inches. 28 inches. The price includes the camera, lens, shutter and one double plate holder.

8x10 61/2 x81/2 Price, Long Focus Premo, with one plate holder . \$29 75 \$38 25 \$55 25 Wide Angle Lens, extra..... 9 00 IO 20 13 50

The Stereoscopic Premo.

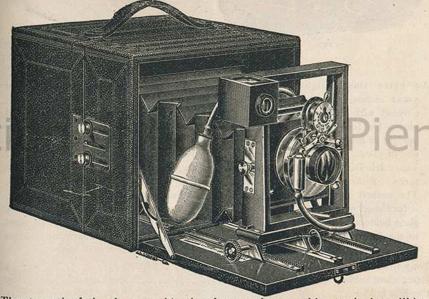


Stereoscopic Photography is one of the most interesting and fascinating branches of the art, and as the hand camera is now designed especially for this class of work, it will undoubtedly gain favor among a large number of amateurs, who have heretofore never attempted the production of stereoscopic pictures. We can furnish both the Premo A and the Premo Sr., in 5x7 and 61/2 x81/2 sizes, arranged for stereo work, for which the front must be wider than regular. The stereo lenses are a matched pair of 4x5 rapid rectilinear lenses, same as are used in 4x5 Premo, and fitted with Bausch & Lomb

Stereo Shutter, which works on same principle as their diaphragm shutter. The shutter is designed especially for use with stereoscopic lenses. The action is so perfect that absolutely the same amount of light is admitted through both lenses. Revolving diaphragms are provided for stops. The speed may be regulated at will, the shutter working automatically from 3 seconds to the 100 part of a second. Time exposures of any desired length may be made by

adjusting the time lever. Both finger and pneumatic release are attached. The regular lens and shutter and the stereo lenses are on different lens boards, so that the change from regular full sized views to stereo work is but the work of a few seconds. The price includes the rapid rectilinear lens and Victor shutter for full sized views, and the stereo lenses and shutter, together with a division in the camera. Wide angle lenses may be used for full size view, same as with the regular Premo. Extra Premo Plate Holders _____ 1 27 Premo Cut Film Holders 1 37 1 58 14 40 4 00 8 00

The 5x7 Folding Hawk-Eye No. 2

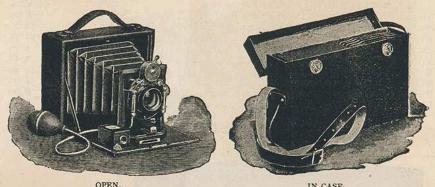


The strength of the above combination from a photographic standpoint will be readily recognized, and the beautiful finish and fine workmanship of camera, lens, and shutter, also make this a most desirable outfit for those who want the very best. The No. 2 model has in addition to the double swing, a double sliding front, thus giving every adjustment which will ever be required. This camera is of extra fine hand finish throughout, the wood work being ebonized and French polished, and the leather of the finest grain. The lenses are guaranteed to give results equal to any known make of similar dimensions, and if in any way unsatisfactory, may be returned and exchanged. The Bausch and Lomb Iris diaphragm shutter is the latest and most popular model, and may be set for automatic exposures of from 1-100 of a second to 3 seconds with great accuracy, as well as for longer exposures in the usual manner. The lightness of this shutter, and freedom from noise and jar in quick exposure, also commend it.

The No. 2 Folding Hawk-Eye, as above with one F. W. holder for plates or cut films____ -----\$46 75 Hawk-Eye Improved Roll Holder, with aut. tally ______ 9 90 Roll Sunlight Films (5 in.), 25 exposures _____ 3 00 Roll Sunlight Films (5 in.), 50 exposures 6 00

CYCLE CAMERAS.

So called because of their extreme compactness, specially adapting them for the wheelmen's use. They are much in favor among those who desire a first-class outfit to occupy the smallest space.



The Pony Premo, Sr.

IN CASE.

An extra small, light-weight, 4x5 camera, measuring when closed about 5x6x2 inches, and weighing about 30 ounces. Made of seasoned mahogany, covered with fine black leather. Furnished with double swing back, rack and pinion for focussing, double sliding front and brilliant view finder, reversible for upright or horizontal views. The ground glass screen is spring actuated and full size of plate. The camera is furnished with the Victor Rapid Rectilinear Lens and Victor Iris Diaphragm Shutter, and is suitable for either snap shots or time exposures. Either dry plates, cut films, or roll of film in roll holder may be used. The method of attaching roll holder is novel but simple. The Pony Premo, Sr., is furnished with a neat leather case, which will hold the camera, lens, shutter, three plate holders or roll holder, and may be carried by the shoulder strap or attached to the frame of a bicycle in the same manner as a tool bag. The price includes camera, lens, shutter, one double plate holder and leather case with strap.

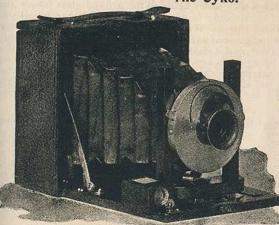
Pony Premo Sr\$25		50
Extra plate holders	1 (05
Cut film holder		15
Roll holder, empty	0	00
Roll of film, 48 exposures 3	, (00

The Pony Premo.

Same construction, appearance, etc., as the Pony Premo, Sr., but is without the rack and pinion, and double swing back, while the front board has the rising and falling motion, but not the side wise. Made specially for those who desire the best posssible camera without the adjustment of the Sr. The price includes a handsome leather case that will hold camera complete, three plate holders or a roll holder, made in size 4x5 only.

Price, with one plate holder and carrying case	\$20	40
Price, extra plate holders, each	I	05
Price, Cut Film Holders, each	I	15
Roll Holders (empty)	9	00
Roll Film, 48 exposures	3	00

The Cyko.



Neat, compact, practical, cheap. Uses glass plates only and makes a picture 4x4 inches. Size of camera when closed, 21/4 x51/4 x51/4 inches. Fitted with single achromatic lens and Cyko time and instantaneous shutter. It has leather bellows, rising front, ground glass screen for focussing, view finder and socket for tripod screw. Camera is made of polished mahogany covered with morocco. It is put up in a neat grain leather carrying case which holds the camera and four plate holders.

Price includes camera with carrying case and one double plate holder. Price......\$11 40

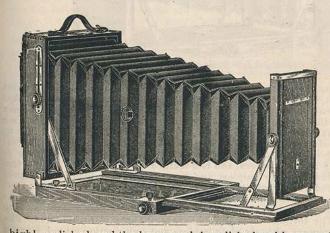
View Cameras.

VIEW CAMERAS are not suitable for making Ferrotype (tintype pictures), this line of photographic work requiring camera and lenses of special construction. (See quotations under heading: Ferrotype Cameras and Outfits.)

A View Camera of any size can always be used for making smaller pictures

by using inside kits in the plate holder.

The Monitor Camera.

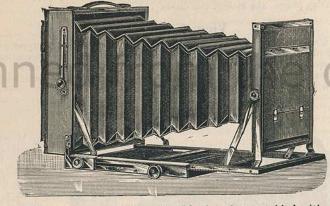


THE MONITOR, reversible back, a new form of the compact style of view camera, and is similar in generalappearance to the Carlton. The Monitor has been especially designed with a view of making a strictly high grade compact camera at a low price. It is made of the best mahogany

highly polished, and the brass work is polished and lacquered. The bellows is of finest leather so that the camera presents an exceedingly handsome appearance. It has extra long draw, thus allowing the use of lenses of extreme length of focus, while the back will slide forward by loosening two milled heads, so that extreme wide angle lenses can be used. The Monitor has double swing back, rising and falling front, and is fitted with rack and pinion, the movement being perfectly smooth. The rising and falling front is controlled by a spring working in a ratchet, doing away with milled heads. The back of the Monitor is square, and may be quickly reversed for either vertical or horizontal pictures. The ground-glass is spring actuated, and recedes for the insertion of the plate holder, which slides between the ground-glass frame and the back of the camera. The Monitor 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 Jr. holder, and combination tripod, but no lens. Monitor Cameras up to and including 8x10, are supplied with either a short or long canvas case. The former carries the camera and the three holders. The latter holds camera, six holders and combination tripod, and in sizes up to 61/2x81/2 inclusive, there is a space for lenses. In ordering, specify style of case

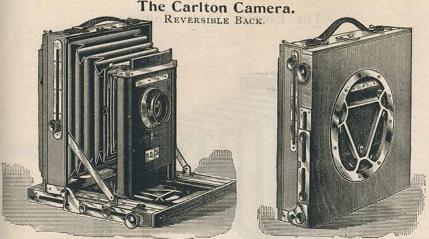
Size of View.	Focal Capacity.	Weight of Camera.	Double Swing.
	13 in.	2 lbs.	\$20 40
4 × 5	17 "	3½ "	23 00
5 x 7 5 x 8	19 "	414 "	25 50
6½x 8½	201/4 "	45/8 "	28 00
8 x10	24 "	634 "	30 60
10 X12	26 "	91/2 "	36 00
II XI4	3034 "	12 "	38 25

The Kenwood Camera.



Same description, appearance, etc., as the Monitor, but provided with wide front board for stereoscopic work, it being the only compact camera on the market with which stereo lenses can be used. There has been no pains or expense spared to make this camera a perfect instrument for all around work and we feel confident that the result will be fully appreciated by those who desire to make the beautiful stereo views. The Kenwood Camera is furnished with Perfection Ir. plate holder, fitted with rubber slides. This holder is the same as supplied with the Premo Camera, and is a feature of the outfit. The Perfection Jr. is conceded to be the simplest and best holder ever made. A leather handle is provided for lifting the camera from the case, or it may be carried without the case with one holder in position between the ground-glass and camera back. Kenwood Cameras are supplied with either a short or long canvas case. The former holds the camera and three plate holders. The latter holds the camera with six plate holders and combination tripod, leaving a pocket at the end for lenses. In ordering specify which style of case is desired. Price includes canvas carrying case, one Perfection Jr. plate holder and combination tripod, but no lens,

Size of View.	Focal Capacity.	Weight of Camera.	Double Swing.
5 x 7	17 in.	4½ lbs.	\$25 50
5 x 8	19 "	514 "	28 00
6½ x 8½	201/4 "	6 "	30 60
8 x10	24 "	8¼ "	36 00



THE CARLTON CAMERA is a modified English pattern, and is one of the most compact cameras in the market, the 5x8 being 23/4 inches thick when folded and weighs but 534 pounds. For the enthusiastic amateur and professional photographer who believes in having the very best of everything, the Carlton, with its manifold features, adapting it to an almost infinite variety of work, will be found to be the camera par excellence. It has extra long bellows, the 5x8 having a focal capacity of 19 inches, and other sizes in proportion; this allows the use of lenses of extreme length of focus, while wide angle lenses can also be used. Owing to the extra length of bellows the camera can be used for copying and enlarging, if desired. It is made from selected mahogany, finished in the best possible style and has all latest improvements. The camera box is square, the back being reversible, so that when a view is wanted either horizontally or vertically on the plate, the change can be effected in five seconds by simply reversing the back. The ground glass frame is held to the camera back by springs which allow it to recede so as to insert the holder between the ground glass and camera back.

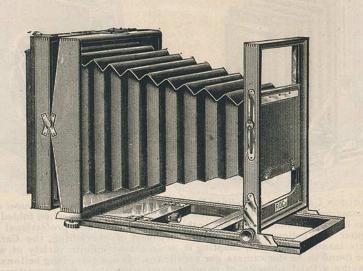
Forward Movement of Camera Back.—When lenses of extreme width of angle are employed on the compact form of camera, it sometimes happens that a portion of the bed is included in the picture. To prevent this, the back of the Carlton can be moved forward, thus allowing the focus to be obtained with the lens entirely out of range of the bed. This movement is quickly made by the use of two milled heads which, when loosened, permit the back to be placed above the bed, in which position it can be moved forward. Of course this improvement is only required with lenses of shortest focus, or "extreme

angle," as the ordinary wide angle lens can be used without it.

No loose top for tripod .- The bed of the Carlton carries its own tripod top, adapted to our combination tripod. The top, made of metal, is neatly fitted in the bed and revolves easily and with great smoothness, permitting the operator to adjust the camera in any direction. A small milled head secures it firmly in position. All Carlton Cameras have double swing back. Price includes one mahogany Perfection holder, with rubber slides, mahogany combination tripod and canvas case, but no lens. The Carlton Cameras in sizes to 8x10 inclusive, are furnished with either a short or long canvas case. The former carries the camera and three holders only; the latter will hold the camera, six holders, combination tripod, and in sizes to 61/2x81/2 inclusive, there is a com-

partment for lenses	. In ordering, specify	style of case desired.	
Size of View.	Focal Capacity,	Weight of Camera.	Double Swing.
4 x5	13	27/8 lbs.	\$29 75
4¼ x6½	151/2	4 "	30 60
5 x7	17	47/8 "	34 00
5 x8	19	534 "	35 70
6½x8½	201/2	7 "	38 25
8 x10	24	9¼ "	42 50
10 /12	263/4	1234 "	46 75
11 x14	30¾	151/4 "	52 70

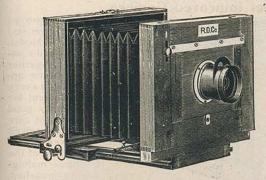
The Empire State Camera.



Reversible back. To meet a constantly growing demand, especially amongst professionals for a well made and thoroughly serviceable camera, possessing all the adjustments requisite for general work at a moderate price, the "EMPIRE STATE" is offered. This camera is constructed, not so much with the idea of beauty and fine finish in mind, but to combine all the movements necessary in a camera for both in-door and out-door photography. It is made of selected mahogany, and its trimmings are of polished brass. It has forward focus with fine rack and pinion adjustment, the front being held perfectly rigid by turning a milled head placed inside of the one turning the pinion. The bed is made to hinge, and fold completely under the camera, thus allowing lenses of extremely short focus to be used. Ample rise and fall is given to the front, a desirable feature for work in confined situations. The front board is made wide enough for stereo lenses. The Empire State is made both single and double swing. Both swings are from the center, a feature that every professional will quickly recognize and appreciate. The back is reversible, and has spring actuated ground-glass frame. The holder is inserted between the ground-glass and camera back. When in position the slide may be drawn from the top, bottom or either side as desired. In recommending the EMPIRE STATE as a thoroughly practical camera in every particular, we feel that our claims will be even more than justified by an examination of the instrument itself, the price in no way conveying an idea of its merits, Price includes canvas carrying case and one perfection holder, but no lens or tripod. With sizes above 11X14 we send English book holder. The carrying case will hold two extra plate holders.

Size of View.	Focal Capacity.	Weight of Camera.	Single Swing.	Double Swing.
5 x 7 5 x 8 6½ x 8½ 8 x10 10 x12 11 x14	15¼ in. 16 " 16¼ " 19 " 21 " 23½ " 29 "	5 lbs. 5½ " 5¾ " 7¾ " 8¾ " 11½ " 23¾ "	\$14 45 16 30 17 00 18 70 23 80 27 20 36 00	\$16 25 17 00 18 70 20 40 25 50 30 60 38 25
14 X17 17 X20 18 X22 20 X24	37 " 39 " 41 "	30 " 38 " 46 "	40 80 51 00 66 30	45 90 57 80 73 95

The New Model Camera.



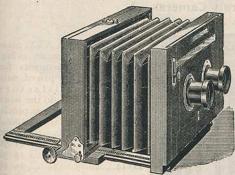
The New Model Camera is well known, it having been on the market for some years, and its popularity attests its merits. This camera has the reputation of being the most popular camera in market for amateur's use. It is very light and compact, making a very desirable camera for the amateur who desires a good but cheap outfit. The new model is made of selected cherry, well finished and with nickel trimmings. It is provided with sliding front, folding bed,

and is easily reversed for upright pictures, with adjustable reversing clamp, by which means the strain is entirely on the bed where it belongs. The folding part of bed is held rigid by a clamp-hook, the quickest, easiest, and most effective device yet used for that purpose. Price includes single view lens, standard folding tripod, carrying case and one perfection plate-holder (except 8x10, where neither lens or tripod are included.) The carrying case will hold two extra plate holders.

Size of View.	Focal Capacity.	Weight of Camera.	Single Swing.
31/4 x 41/4	8½ in.	13/8 lbs.	\$ 8 50
4 x 5	9 "	15/8 "	8 50
41/2 x 61/2	91/2 "	2 "	9 35
5 x 7	1134 "	21/4 "	10 20
5 x 8	121/2 "	21/2 "	10 20
6½ x 8½	14 "	23/4 "	12 75
8 x10	16	5	*11 90

*Not including lens or tripod.

New Model Stereoscopic Camera.

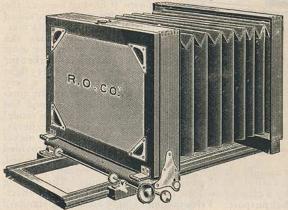


The revival of the stereoscope necessarily creates a demand for a first class stereoscopic camera. To meet this demand has been devised the New Model Stereoscopic Camera, believing it will find favor with all who are interested in this most fascinating branch of photography. This camera is the lightest, most compact and simplest instrument yet placed on the market, combining the many desirable features needed in a stereo camera. It is made from the best Honduras mahogany, highly polished, with nickel

trimmings. The New Model Stereoscopic Camera is patterned closely after the New Model Improved, having rack and pinion for focusing, sliding front, folding bed, and is reversible by means of our new adjustable reversing clamp. The folding bed is held rigid by a clamp-hook, which is the quickest, easiest and best device yet produced for the purpose. The partition and front board are removable so that the camera may be used, if desired, for other than stereoscopic pictures, by the addition of a lens of sufficient size to cover the full plate. Each camera is enclosed in a neat canvas case, with room for two extra perfection holders.

Price for 5x8, with matched pair of No. 1 R. O. Co.'s view lenses, Carlton sliding tripod and one perfection holder \$18 70 Complete without lenses \$13 60 Complete without lenses or tripod \$11 90

New Model Improved Camera.



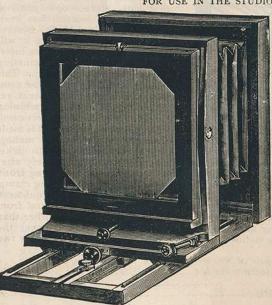
The New Model Improved is made after the general style of the New Model. It is very light and compact, which, together with its handsome appearance, makes it a very desirable instrument for . those who want a good camera but do not care to invest in a high-priced outfit. The New Model Improved is made of the best Honduras mahogany, highly polished, with nickel trimmings; it has sliding front, folding bed, and is reversible by means of adjustable

reversing clamp. It has rack and pinion focusing movement; the folding part of bed is held rigid by a clamp-hook, the quickest, easiest and best device yet used for the purpose. Price includes R. O. Co.'s single view lens, Carlton sliding tripod, carrying case and one perfection plate holder (except 8x10, where neither lens nor tripod are included). The carrying case will hold two extra plate holders.

Size of View.	Focal Capacity.	Weight of Camera.	Single Swing. \$11 05	Swing. \$12 75
4 x 5	9 "	134 "	11 90	13 60
41/4 x 61/2	91/2 "	21/8 "	13 60	15 00
5 x 7	113/4 "	22/3 "	15 30	17 00
5 x 8	121/2 "	23/4 "	15 30	17 00
6½ x 8½	14 "	3¼ "	18 70	20 40
8 x 10	16 "	5½ "	12 75	14 45

Portrait Cameras.

FOR USE IN THE STUDIO.



Our special No. ATX, plain bed, polished, double swing, with all adjustments for focussing. A low-priced, substantial and satisfactory camera that will do the work of one costing twice as much.

		Pr	ice.
6½ x8½		\$10	80
8x10			
IOX12		. 15	30
IIX14		. 19	10
14x17	•	. 22	50
17x20	88	. 31	50
18x22			50

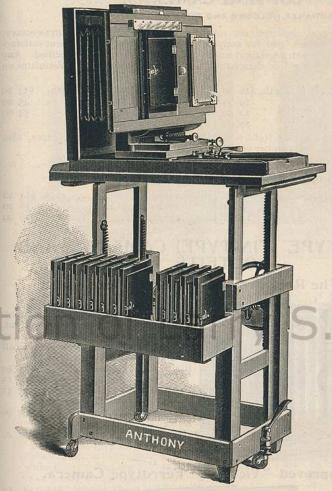
Curtain slide holder, 10 per cent. additional.

Lever focus adjustment, \$1.00 extra.

Focus Levers. -8 x 10 and smaller, \$1.75; larger sizes,

Focus Screws .- 8x 10 and smaller, \$1.00; 14x27, \$1.50; 18 x 22, \$2.50.

New York Studio Outfit.



This outfit is, without exception, the most complete and the cheapest for the studio. It includes: 1. 8x10 Mahogany Por-trait Camera, of newest design, fitted with double swing back and patent lever focussing attach-ment. Fitted also with curtain slide Benster holder, the most perfect plate holder in existence. 2. Anthony's Automatic Cabinet attachment, with one holder, by means of which in one movement the ground glass is pushed aside and holder placed in position with slide automatically drawn, ready for exposure. Extra holders, 41/4 x61/2, 5x7 or 5x8, \$1.20 each. 3. No. 1 New York Camera Stand, the most modern studio having stand, only one hand wheel for raising,lowering and

tilting the top. 4. Holder Rack, carried on the side of the stand and having

8x10 Outfit.	\$40	00
11x14 Outfit		
8x10 Camera, alone	19	00
11x14 Camera, alone	45	00

DON'T FORGET

That our line of professional apparatus is not limited to those quoted in this catalogue. If you need an outfit for the studio give us a chance to figure on it.

23

COPYING CAMERAS.

WITH BONANZA HOLDERS AND FOCUS SCREW OR LEVER.

Made of hardwood, shellaced, not varnished. No swing, it being unnecessary. Complete in every respect, and for copying it will meet every requirement satisfactorily. They are made with regulation length of bed, unless otherwise specified. Any length made to order; rigid or detachable, single or double bellows Estimates on application.

61	4x 81/4	with	bed	3 ft.	in length.	\$16	20	14x17, W	vith l	bed ;	5 ft	in lengtl	1\$34	20
8	XIO	64	(1	1 "	11	19	80	17x20	22.2	1)/2		45	00
	XI2		44		310	22	50	18x22	1.1	" 6	1/2 "		54	00
	XIA	11	10	12 11	1.0	27	00							

Copying Cameras having front adjustable both ways, 10 per cent. more, also Cameras for reducing, costs 10 per cent. more.

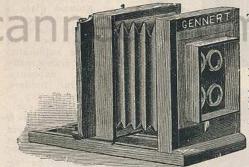
Every Camera guaranteed to be as good as the best, or money refunded.

Bonanza Holders for Copying Cameras.

Size	8210	each.	\$ 8 10	Size, 14x17ea	ach,	\$14 4	0
11	TOX12	(1)	9 00	" 17x20		10 2	.0
	IIXI4		12 60	" 18x22		18 0	00

FERROTYPE (TIN-TYPE) CAMERAS AND **OUTFITS.**

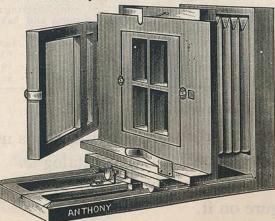
The Rockaway Ferrotype Camera.



This cheap and handy instrument, made of hardwood throughout, will make four bon-tons on a 5x7 plate, with four ¼ lenses, or a full cabinet with a single lens.

Plain, without lenses\$11	40
" with four 1/4 lenses 26	15
Price of extra Holders	5 55
Extra sets of Dividers for	
bon-tons	90
Extra sets of Dividers for 9 1	
lenses	20

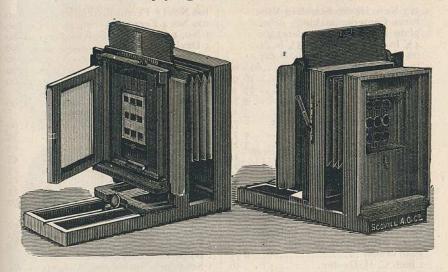
The Improved "Victoria" Ferrotype Camera.



Handsomely finished in mahogary, with rabbeted shield and kit, Makes one 5x7, 41/4 x51/2, or 31/4

x41/4 picture, reversible,
with a single 5x7 lens or
four or eight gems on a
5x7 plate with four gem
lenses.
Without lenses \$14 25
With four 1/4 size len-
ses on plates 27 00
Extra Holders, with
kits. Each 5 50
Extra sets Dia-
phragms for bon-
tons. Each 1 35
 Extra sets Dia-
phragms for nine
1 size lens. Each 1 50

The Acme Multiplying Victoria (Ferrotype) Camera.



The Acme Multiplying Victoria Camera will make nine or eighteen gems on 5x7 plate, using 9 & Gem lenses. It has sliding holder, and admits of cabinet work on 5x7 plate and two pictures on that size or smaller when gem fixtures are removed and single.

Price, without lenses

NOTE.—When ordering one of the above cameras, please state whether rabbeted or solid glass

Ferrotype Outfit No. 1.

I (No. 371/2) Ferrotype Camera fitted with four Gem tubes for four pictures on 3¼x4¼ plate; 1 box 3¼x4¼ ferro plates; 500 Caterson's No. 4 holders; 1 5x7 glass bath; 1 No. 4 hard rubber dipper; 1 pint silver solution. Sundries—8 ounces ferrotype collodion; 1 16-ounce bottle acetic acid; 1 16-ounce bottle sulphate iron; I pint alcohol; I tall head rest; I camera stand; 2 half-pint glass funnels; I collodion vial; I 3-ounce graduate; I alcohol lamp; I box dry colors and brushes; I jar paste; I bristle brush; I camel's hair brush; I 4-ounce bottle cyanide potassium; 1 bottle varnish; 1 package absorbent cotton; 1 copy Ferrotyper's Manual. Price, net _____\$32 00

Ferrotype Outfit No. 2.

1 5x7 Improved Victoria Camera fitted with four gem tubes for either four or eight pictures on a 5x7 plate, and with a half size portrait lens for one or two pictures on a 5x7 plate; 50 10x14 ferrotype plates; 500 No. 11 envelopes; 1 5x7 glass bath, with dipper; 1 pint of silver solution; 1 lot sundries as specified in

Price, net_____\$60 00

Ferrotype Outfit No. 3.

COMPLETE FOR WORK IN A GALLERY OR TENT.

1 5x7 New Haven Standard Vic-	100 No. 15 Ferro. Envelopes	40
toria Camera, making 1 on	100 No. 4 Ferro. Envelopes	20
plate 2x21/2 in., 1 on plate31/4 x	1 No. 1 Queen Oil Stove	1 80
41/4 in., I on plate 23/4 x 31/4 in., I	1 Drying Rack	50
on plate 5x7 in., 4 on plate 5x7	I Varnish Pot	50
	ı oz. C. P. Nitric Acid	20
in., 8 on plate 5x7 inches\$18 oo		100
4 1/4 Gem Lenses 16 00	½ lb. Nitrate Silver (1 bottle)	6 00
1 1/2 Portrait Lens 17 50	2 8-oz Bottles Phenix Collodion,	
1 1/2 Excelsior Camera Stand 3 75	at 50c	1 00
I Tall S. P. C. Head Rest. 3 25	2 8-oz Bottles Phenix Varnish, at	
I Back Support for Head Rest. 75	50c	1 00
1 4x6 Background 4 75	1 Oz. Resub. Dry Iodine	35
1 7x10 Glass Bath, in box 3 25	1 lb. P. S. Iron (1 can)	15
1 No. 5 I. R. Dipper 45	1/2 lb. Cyanide of Potassium	45
1 7x9 Deep Agate Tray 1 25	1/2 Pint Parlor Paste	25
1 4-oz Graduate 33	I I-inch Bristle Brush	12
1 8-oz Graduate 45	1 Dozen Gum Paper	25
1 1-Quart Glass Funnel 20	1/4 lb. Absorbent Cotton	30
2 1-Pint Glass Funnels, at 15c 30	2 lbs. No. 8 Acetic Acid, at 20c.	3.
1 Pair 9 Inch Shears 1 00	1b	40
	lb 1 4-oz Collodion Vial	20
Box Anderson's Dry Colors,	1 Package No, 25 Round Filters	
fitted with colors, brushes and		35
gold saucer 1 75	1 Book Litmus Paper	.5
I 2-inch C. H. Duster 50	1 Set 6-inch Scales and Weights	85
I Copy "Ferro. Guide" 75	1 Sliding Arm Chair, terra cover-	0
2 Doz. 10x14 Ferro. Plates at 90c. 1 80	ing, 6-inch Fringe	8 00
100 No. 11 Ferro. Envelopes 20	I Pint Alcohol	50
Price, complete	\$1	00 00

LENSES

While results in photography depend to a great extent upon personal skill and experience, the basis of good work is always the lens. The camera and its adjuncts may be more or less crude, but that part of it which gives the photographic image, the lens, should be of as high grade as possible, and when purchasing, the photographer should have in mind the use to which the lens is to be put.

THE SINGLE VIEW LENSES are used in the cheaper grade of cameras, both view and hand, and with them excellent photographs of landscape and other

forms of pictures made out of doors, can be made.

THE RAPID RECTILINEAR LENSES give much better results on the same kind of work than does the Single View, the details being more clearly shown. Additionally, having a greater working speed, instantaneous pictures of much more difficult subjects can be made with them than can be made with the Single View.

THE EXTRA RAPID RECTILINEAR are suitable for any purpose that the above can be used for, and additionally for portrait and copying work in the studio.

THE "WIDE ANGLE" are for work requiring a greater angle of view than is obtainable from the ordinary lenses, thus rendering them particularly suitable in photographing architectural subjects, tall buildings, etc. In their construction, however, speed being sacrificed to obtain angle, they are not suitable for instantaneous work except under the most favorable conditions.

THE TELE-PHOTO SERIES are fully described in the quotation. A lens can always be used to take pictures smaller than the plate which it is designed to cover. For instance a 5x8 single view lens can be used to make 4x5 pictures, but nothing larger than 5x8. A double or rectilinear lens of a certain size can be used to make pictures of a larger size by removing from the tube one combination of glasses and using the instrument as a single view lens. This is not advisable, however, as results are never wholly satisfactory.

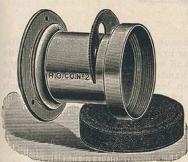
advisable, however, as results are never wholly satisfactory.

Some photographers prefer certain makes of lenses. To such we will be pleased to quote prices upon any standard lens on the market, if when writing

they will state size and name of tube desired.



Gem Tubes (Ferro-type).



R. O. Co's SINGLE VIEW LENS are considered the best of lenses of this grade and recommended to those who cannot afford a higher priced tube, as being an excellent lense for so low a price.

No.	Length of Focus.	Size.	Price.
I	6 inch.	4 x 5	\$2 70
11/2	8 "	41/4 x 61/2	3 15
2	10 "	5 x 8	3 60
3	II "	6½x 8½	4 50
4	13 "	8 x10	6 30

No. 1, furnished in matched pairs, for stereoscopic work, at \$5.50.

M. W. & Co,'s Crystal Achromatic Single View Lens, a well constructed, well mounted lens, with revolving diaphragm, designed for landscape work, and when used with large tops, are amply rapid for instantaneous work. The best single view lens on the market.

Focus.	Price, complete,
6 in.	\$ 3 85
8 "	4 50
9 "	5 CO
111/2 "	6 00
121/2 "	7 25
14 "	8 50
	6 in. 8 " 9 " 11½ " 12½ "



M. W. & Co.'s Rapid Rectilinear Lens.



We introduce this lens to meet the demands of the photographer who desires a better lens than the single view, and yet at a moderate outlay. They are perfectly rectilinear, have great depth of focus and give brilliant definition. While they have not the working speed of our extra rapid series they will be found excellent for landscapes and architectural subjects, and instantaneous and group work out of doors. Furnished with the new iris diaphragms.

sible diam.	Sizes of Plates.	Back Focus.	Equiv. Focus.	Angle.	Price, complete.
1 in. 1½ " 1½ " 1½ " 2 " 25 "	4 x 5 5 x 7 5 x 8 6½ x 8½ 8 x 10 10 x 12	5½ in. 7½ " 8¼ " 11¾ " 14½ "	21 in. 814 " 918 " 1234 " 1614 "	75° 75° 75° 75° 75° 75°	\$ 8 00 9 00 10 00 15 00 20 00 25 00

M. W. & Co.'s Extra Rapid Double Achromatic Lens (Special).



For landscapes, viewing groups and instantaneous work on the field; portraits, groups and copying in the studio, in fact for every purpose a high grade lens can be used. They are of highest polish and best quality and cover a plate to the extreme edge with full opening, handsomely finished and speed is equal to that of any of the popular English lenses that list at a very much greater price. They have removable hood and the new iris diaphragm.

Visible diam. of Lenses.	Size of Plate.	Back Focus.	Equiv. Focus.	Price, com. plete.
ı in.	4 ×5	47% in.	5½ in.	\$13 50 18 00
1 1/4 " 1 7/6 "	5 x7 5 x8	7½ " 8¼ "	8½ " 8¾ "	20 00
158 "	6½ x8½	101/4 "	11 "	26 50
2 1 "	8 x10	1234 "	137/8 "	31 00
215 "	10 X12 12 X16	1734 "	16½ " 19¾ "	40 00 48 00
216 " 3½ "	16 x20	231/4 "	251/2 "	65 00

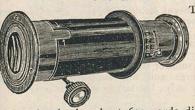
M. W. & Co.'s Symmetrical Wide Angle Rectilinear Lens.



M. W. & Co.'s Symmetrical "Wide Angle." Double Achromatic (Special). For work requiring great width of angle, and extra rectilinear results, such as interiors, architectural or street views, over an angle of 90 or 100 degrees, and have a remarkable depth of focus compared with other wide angle lenses. They are the most rapid wide angle lenses made. They are distinguished by the comparatively large stops with which they give sharp images, a result which is largely due to the great perfection of their polish. Revolving diaphragm. Removable hood.

Diam, of Lenses.	Size of Plate.	Equivalent Focus.	Price, complete-
2. in.	4 x 5	4 in.	\$12.50
18 in. 5% in.	5 x 8	5 in.	14 50
11 in.	6½ x 8½	6 in.	17 00
13 in.	8 x10	7 in.	22 00

M. W. & Co. Telephoto Lenses.



This instrument is composed of an extra rapid rectilinear lens with an amplifying system placed at the back, controlled by a rack and pinion adjustment for varying the amplifying powers as shown on the engraved scale. Considerable magnifying power is thus obtained without detriment to the crispness and rectitude of the lines or the rapidity. Example: (for 6

times). A church at 600 yards distance photographed with the R. R. lens alone occupies a space of 1½ inches on the plate. This same church photographed at 600 yards with the Telephoto lens will measure 7½ inches, or when set for 8 times would measure 10 inches, etc. The advantages which this new construction offers is to permit of the ordinary long focus tourists camera being used for long distance photography in large sizes, for objects situated in inaccessible places or very far distant, details of which can only be discerned by telescope. In architectural photography defects in perspective are totally destroyed. Unsurpassed for large heads ½ life size, etc.

The Ross-Zeiss and Ross-Goerz Anastigmat Lenses.

Undoubtedly the Zeiss and Goerz Lenses are the most perfect photographic objectives made. In their construction everything that an absolute knowledge of the work in hand can give, has been done to render them perfect. In the quality of the glass (Jena) used in the perfection of finish and adjustment. In softness, definition, depth and rapidity they are unrivalled. To the photographer who seeks the "Best" we can only say buy a Zeiss or Goerz. Additional to those herein listed we are prepared to furnish price lists upon application of the new series VII A convertible anastigmats.

Lenses on Trial.

By special arrangement with the importers of the Zeiss and Goerz lenses, we are prepared to send any of these listed in this catalogue. *Provided*, full amount of cash accompanies order, and lens is returned in good order, by *prepaid Express*, within the specified time. All lenses sent on trial will be shipped from New York.



Series VII.

Ross-Zeiss Single Anastigmat Lenses.

A new series. The angle of this Anastigmat Lense is over 85°, while the marginal distortion is practically inappreciable. The lens is, therefore, suitable for instantaneous outdoor pictures, such as landscapes and seascapes, and also for large portraits and groups in a bright light.

	Equivalent	PLATE CO	With Iris	
No.	Focus.	f/12.5	f/22.6	Diaphragm
	Inches.	Inches.	Inches.	Prices.
1	7¼	6½x 4¾	8½x 6½	\$25 00
2	9	7½x 5	10 x 8	28 00
3	11½	8½x 6½	12 x10	33 00
4	14	10 x 8	14 x11	40 00
5	16½	12 x10	16 x12	51 00

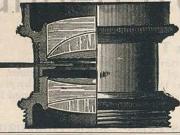
Ross-Zeiss, Series IIIa. F/9.



For general outdoor work. These Lenses are perfectly compensated for astigmatism and yield a perfectly flat field. They are characterized by unusual sharp definition. They embrace an angle of 97 degrees. The smaller sizes are well suited for hand cameras and are supplied with wheel stops only; the larger with iris only.

No.	Equivalent Focus. Inches.	Largest effective diam of Lens inches.	Size of Plate covered at f12.5 - f18. inches.	Brass Mounts with Iris Diaphragms,	Aluminium Mounts with Iris Diaphragms,
1	47/8	5/8 3/4 7/8	4 x 5	\$21 00	(\$
2	6	3/4	4%x 6½		heel
3	67/8	7/8	51/4 x 71/4	30 00 St	ops. 33 00
4	77/8	1	51/4 x 81/2	33 00	1 36 00
5	91/4	11/4	6½x.8½	43 00	46 00
6	107/8	11/2	7¼x 9%	52 00	56 00
7	121/2	134	8½ x107/8	65 00	70 00
7 8	163/8	2	10 X12	98 00	103 00
9	201/4	21/2	II XI4	130 00	137 00
10	24	27/8	12 x16	163 00	169 00
11	27 5/8	33/8	14 X18	211 00	219 00
12	321/4	334	16 x20	260 00	268 00

Ross-Zeiss Anastigmats, Series V., F/18.



Wide Angle and Copying Lens, Especially recommended for photo mechanical work and high grade mechanical reproduction processes, and is undoubtedly the best of the Zeiss Lenses for this purpose. For the reproduction of maps, plans and drawings. They yield a perfectly flat and anastigmatic image, and are perfectly free from distortion.

Nc.	Equivalent Focus. Inch.	Free diameter of Largest Lens, Inch.	Size of Plate covered with Stop f. 36. lnch.	Diameter of Image Circle at 104°. Inch.	Revised Price with Iris Diaphragms.	Price in Aluminium with Iris Dia- phragms.
I	33/8	9,	43/4 x 57/8	85%	\$21 00	
2	43/8	3/8	51/8× 71/8	11	21 00	
3	51/2	9 32 3/8 1/2 9	6½x 8½	141/8	26 00	
	5½ 718 8¼	9 16	8 x101/4	1534	33 00	A
4 5 6	814	16 13 16	10 X12	211/4	41 CO	\$44 00
6	101/2	13	11 X14	263/4	51 00	54 00
7	123/8	15	Repro.of c'ts	31½ at 85°	60 00	64 00
8	181/8	1	12 X1534	331/2	80 00	83 00
9	247/8	13/8	16 X20	46	117 00	120 00
10	371/4	21/8	20 X25 1/2	681/4	231 00	237 00
11	51 5/8	3	27½ ×34	94½	393 00	401 00
12	651/2	4	35½×43¼	118	653 00	662 00

The four smallest sizes are with Rotary stops only. Other sizes Iris only, Cost of pairing lenses for stereo work, \$3.

Zeiss-Anastigmat 1:8. Series IIA.



For portraits, groups, instantaneous outdoor work and copying. The lenses of this new Series are composed of five lenses and have an angle of 80 degrees and being of relatively slower speed it has been possible to compute them for an absolutely flat image, free from all astigmatism and extremely sharp definition. The speed will be found ample for all ordinary instantaneous exposures, give an unusual evenness of illustration, flatness and depth. In the studio they are well adapted for large heads,

figures and groups. These lenses are also particularly adapted to copying and half-tone work, giving minutest detail with extreme flatness to the edges. They are supplied with our improved Iris Diaphragm.

No.	Size of Plate covered with Stop f. 12.5.	Diagonal of Largest Plate covered with Small Stop 72°	Largest effective diam. of Lens.	Equivalent Focus.	Brass Mou Price.	Aluminium nting Price.
1	4 x 5 in.	65% in.	5/8 in.	43/8 in.	\$ 30.00	\$ 33.00
2	4¼ x 6½ in.	81/4 in.	3/4 in.	53/8 in.	33.00	36.00
3	5 x 8 in.	101/8 in.	I in.	6½ in.	43.00	47.00
4	6½ x 8½ in.	123/8 in.	In in.	8 in.	54.00	58.00
5	8 x10 in.	143/4 in.	1 7 in.	95% in.	64.00	68.00
6	10 X12 in.	1734 in.	15% in.	11 5% in.	86.00	91.00
7	II xI4 in.	21 1/8 in.	2 in.	13¾ in.	126,00	131.00
8	14 x17 in.	261/4 in.	23/8 in.	17 in.	161.00	168.00

For pairing two lenses for stereoscopic work, extra, \$3.00.

Double Anastigmat.



Goerz patent, series 111, F. 7, 7, 10. The Double Anastigmat, series 111, can justly be looked upon as ideal perfection in optics, for universal purposes, and is undoubtedly the most rapid lens in existence. The Double Anastigmat permits the use of the largest stop without diminishing the sharpness of the image at the extreme margin of the plate. The definition of this lens is wonderful, and the definition, brilliancy and flatness of field are uniform over the entire plate.

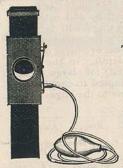
Should you desire portraits in-doors or out-doors, groups, marine views, land-scapes, botanical studies, instantaneous studies of animal life in motion, copies, enlargements, reproductions or mercantile photographs, this lens will render them all and do it equally well in all instances, even being available for wide angle work, as it gives, with a medium stop, an angle of 90 degrees.

REDUCED PRICE LIST OF SERIES III.

No.	Equiv. Focus.	Plate Covered F. 8.	Plate Covered F. 16.	Price, Brass Stops.	Price, Iris D.
00	4	3¼ x 4¼	4 x 5	\$ 28 00	\$ 33 00
0	5	4 x 6	4¼ x 6½	30 00	35 00
1		4¼ x 6½	5 x 7	37 00	42 00
2	7	5 x 7	5½ x 8½	43 00	48 00
3	81/4	5½ x 8½	6½ x 8½	53 00	58 00
4	91/2	6½ x 8½	8 x 10	65 00	70 00
5	101/2	8 x 10	10 x 12	80 00	85 00
	12	IO X 12	11 X 14	95 00	100 00
7 8	14	11 X 14	14 X 17 18 X 22	123 00	131 00
	[19	14 x 17	18 x 22	198 00	205 00
9	24	18 x 22	20 X 24	298 00	304 00
10	30	20 x 24	24 x 28	495 00	504 00
11	35	24 x 28	30 x 35	975 00	1,000 00

PHOTOGRAPHIC SHUTTERS.

When ordering Tube Shutters be sure to state diameter of tube it is to fit. When ordering Front Board Shutters state size of camera front board and what opening is desired. The opening in a shutter should be (about) the same as the visible diameter of the lens it is to be used with.



The Universal Shutter.

This is a very simple, yet effective form of shutter. The slide falls of its own weight when released, and by the use of a rubber band, any degree of rapidity may be obtained. A thin strip of rubber is placed in the top of the shutter to lessen the concussion caused by the falling slide

With spring release	\$o 8	
With pneumatic release,	bulb and tube	13

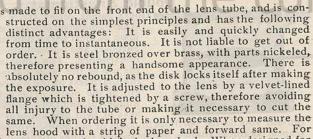
The Stereoscopic Universal Shutter.



This is similar to the Universal Drop Shutter, except for two lenses, and as the slide moves horizontally, it is moved by a rubber band.

Price \$1.40

Marvel Shutter.



lens hood with a strip of paper and forward same. For sizes 8x10 and smaller the shutter should fit the lens hood. When designed for use with lenses larger than 8x10 remove the hood and use shutter over lens barrel.

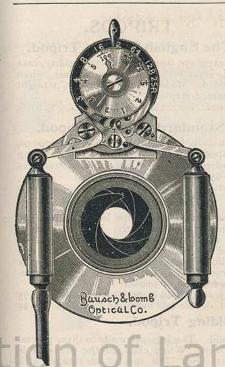
Durion		
5x8 and smaller\$		
64x84 and 8x10	6	25
10x12 and larger	7	50



The New Crescent Shutter.

A light, handsome two-wing shutter for both time and instantaneous exposures at a moderate price, handsomely nickeled. The instrument is a tube shutter, and to place same in position unscrew nickel plated collar from back of frame. Remove the lens hood, slip collar over barrel of lens, and replace hood; fasten shutter and lens together by screwing collar in place. When ordering give diameter of both hood and barrel of lens upon which shutter is intended to be used.

Size.	Pr	ice.
1 1/4 inch opening	\$4	00
15% inch opening		50
21/8 inch opening	5	00



Diaphragm Shutter.

The DIAPHRAGM SHUTTER will be found to meet every requirement of the amateur or professional photographer desir ng a strictly first class shutter for in-door or out door work. It is constructed in the best possible manner, operates without concussion, even when set at the highest speed, and is almost noiseless in action. No loose diaphragms for the lens are necessary with this shutter, as the leaves serve the purpose of stops. It will work automatically from three seconds to the one-hundredth part of a second, and by simply moving a small lever, it may be set for time exposure of any desired duration. In the latter case a pressure on the bulb closes the shutter. Owing to the variations in size and pitch of threads and varying conditions in lenses it is necessary when ordering these shutters to send lens to us to be fitted.

Full Size, 4x5.
Fitted to Universal or Clark Lenses.

Size.	Price.
31/4 x 41/4	\$11 25
4 x 5	12 25
5 x 8 6½x 8½	12 25
61/2 x 81/2	
8 x10	14 46

Fitted to other Lenses leaving the original barrel intact.

Size.	Price.
31/4 x 41/4	\$13 00
4 x 5	13 00
5 x 8	14 00
6½ x 8½	15 00
8 x10	16 20

A PROFITABLE BUSINESS. A good Magic Lantern or Stereopticon exhibition is always attractive to all classes of the community. In every locality there is an opening for a man to do an excellent business with a Magic Lantern, a Dissolving View Apparatus, or a Stereopticon, and an assortment of interesting views, in giving exhibitions to Churches, Young Men's Christian Associations, Sunday-Schools, Academies, Public Audiences, Lodges and other Societies, Families, etc. Only make an intelligent public aware of the fact that you are prepared to give such entertainments and you will have little difficulty in procuring engagements. The first cost of an outfit is small when compared with the business that can be done; hence offering great inducements to a person with moderate capital. There is no difficulty in learning the working of the apparatus. Any one of ordinary intelligence, by following the printed directions, cannot fail to produce the desired results. No heavy labor is demanded, so that persons in delicate health have often succeeded in carrying on business satisfactorily.



TRIPODS.

The English Folding Tripod.

Standard Folding Tripod.

With iron head. When head is removed, tripod folds to half length. Light, strong and rigid, suitable for cameras from 4x5 to 6½x8½.

Price______\$1.70

The Columbian Tripod

Is made adjustable in the length of legs and folds up very compactly. They are perfectly rigid, substantially made, well finished and are provided with screws in the top, which cannot fall out, for clamping the camera. They are strong enough for cameras 6½ x8½, or smaller.

No. 3, single fold extension legs, each . . \$1 75 No. 4, double fold extension legs, each . . 2 25

M. W. & Co. Sliding Tripod.

The simplest and best form of sliding tripod. The legs are made in three pieces. The tripod top is of wood, with cloth cover. When clamped the pressure is exerted from all sides, rendering it most rigid. The special advantages of a sliding tripod over a folding one are ease of leveling the camera in rough places by adjusting the length of tripod legs, and the quickness with which it is set up or taken down.

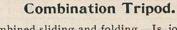
 No. 1, for 3¼x4¼ to 4½x6½ cameras
 \$2 12

 No. 2, for 5x8 and 6½x8½ cameras
 2 55

 No. 3, for 8x10 and 10x12 cameras
 3 00

 No. 4, for 11x14 and 14x17 cameras
 3 85

 No. 5, for 17x20 and 20x24 cameras
 4 65



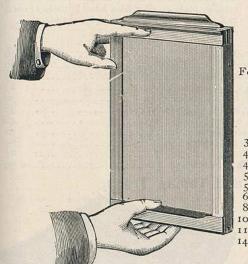
Combined sliding and folding. Is jointed in three lengths, and when closed is but 22 inches long. The tripod top is of wood, covered with cloth. As the lower section slides, the tripod has all the advantages of adjustment of the sliding tripod.

No. 1, for 31/4 x41/4 to 41/4 x61/2	\$2	55
No. 2, for 5x8 and 61/2 x81/2	2	95
No. 3, for 8x10 and 10x12	3	SE
No. 4, for 11x14 and 14x17	STATE OF THE PARTY OF	25
No. 5, for 17x20 to 20x24	5	10

The Petite Tripod.

DRY PLATE HOLDERS.

Before we can fill an order for Plate or Film Holders, WE MUST KNOW NAME AND SIZE OF CAMERA HOLDER it is to be used with.



Perfection Dry Plate Holders.

For use with the Carlton, Empire State, New Model, New Model Improved and New Model Stereoscopic Cameras.

Size.	With Pressed Board Sides.	Mahogany Holders, Hard Rubber Slides.
31/4×41/4	\$0.85	\$1 06
4 X5	0 85	I 27
4 1/4 x 6 1/2	1 06	1 62
5 x7	1 06	1 70
5 x8	1 15	1 70
61/2×81/2	1 37	2 93
8 x10	1 57	2 40
10 X12	2 55	3 83
11 X14	3 40	
14 X17	4 25 -	

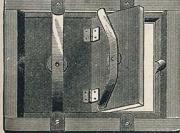
Perfection Jr. Dry Plate Holders.

Made with hard rubber slide only, for use with Monitor and Kenwood Cameras.

	Size.	Price. \$1 05		Size.	Price. \$1.50
		I 05	8	XIO	I 90
5	x7	I 32	10	XI2	3 40
5	x8	1 35	II	X14	4 25
	120	Facile Film			

For cut films. For use with same cameras as the Perfection and Perfection Jr. Plate Holders. Do not neglect when ordering to state what camera film holder is for.

Size. 3½ x4½	Price. \$1 05	Size.	Price. \$1.35
4 x5	I 05	6 1/2 x 8 1/2	T 57
5 x7			



Printing Frames.

We handle a variety of Printing Frames, selecting only such as are popular with photographers, because of lightness and durability. In printing from film negatives use a plain glass in the frame.

Size. Price.	Size.	Price.
3 ¹ / ₄ ×4 ¹ / ₄ \$0 30	10 X12	75
4 x5 30	II XI4	I 30
4¼x6½\$0 34	14 X17	1 70
5 ×7 38	16 x20	2 10
5 x7 38 5 x8 41	17 X20	2 25
6½x8½	20 X24	



Inside Kits.

Consist of thin wooden frames, made to fit in the Dry Plate-Holder, and with rabbets for holding smaller plates. Our Kits have buttons at each end of aperture for holding plate in place.

4	x 5 t	o hold	3¼ x4¼ plates, each\$0	20
47	4x 6½	"	31/4 x 41/4 plates, each	20
5	x 7	"	3½x4½ or 4x5 plates, each	25
5	x 8	44	31/4 x 41/4, 4 x 5 or 41/4 x 61/2 plates, each	25
61	2x 81/2	"	4x5, 4¼x6½, 5x7, or 5x8 plates, each	30
8	XIO	"	4¼ x6½, 5x7, 5x7, or 6½ x8½ plates, each	35
10	X12	"	5x7, 5x8, 6½ x8½ or 8x10 plates, each	40
II	X14	76	8x10 or 10x12 plates, each	50
14	x17	"	8x10, 10x12 or 11x14 plates, each	65
17	X20	"	IIXI4 or 14XI7 plates, each	85
18	X22	"	14x17 or 17x20 plates, each	

Developing and Toning Trays.



1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		SHALL	OW, DEEP.	
Japanned	iron	, shall	ow, 4x5	\$ 20
"	"	**	5×7	20
"	44	44	5x8	25
44	**	**	6½ x8½	30
"	16	**	Sx10	40
- 11	"	deep,	10X12	50
	"	11	11X14	60
"	"	"	14×17	1 00
**	.6	**	18x22	2 00
	"	"	20x24	2 50

Compressed Fibre Developing and Toning Trays.

The latest, the cheapest, the best. Black, smooth, handsome, strong. Guaranteed to be acid and alkali proof. The above cuts show the relative shape and depth of the two styles. Both have slight knobs on the bottom, and the deep trays all have a lip.

	Shallow		Deep.
3½ x 4½	\$0 15		
41/4 x 51/2	20)	\$0 40
5½x 8½	40)	50
7 × 9	55		60
8½x10½	. 80		1 10
10½x12½			1 30
12 x16			1 80

Glass Trays.

Size.	Each.	Size.	Each.
4×5	\$0 25	8x10	\$0 75
5x8	35		

Rubber Trays.

	ulcanize		er Hard	Rubb	er
For Plates.	Shal		De	eep.	
4x 5	\$0 25	Each		.\$0 5	50
5x 8	55	"		. 7	70
7x 9	70	"		. 8	35
8x10	1 00	"		. 1 1	15
10X12				. 17	75
12x16				. 2 4	40
18x22				. 50	00
19×24				- 57	75

Berlin Porcelain Evaporating Dishes.

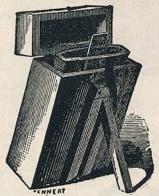


WITH HEAVY RIM.

No.	00.	Diameter	16	inches,	containing	3	gallons	\$3	75
66	0.	- 66	141			2	**		70
"	1.	"	13	"	- 44	1	66	I	70
46	2.		12		"	3	quarts	I	40
16	3.	**	11	"	"	2	"	@=====================================	90
66	4.	- "	10	**	"	3	pints		80
**	5.		9	**	4	2	"		65
44	6.	44	8	44	"	24	ounces		60
26	7.	"	7	- 4	"	16	"	- grant and a second	55
46	8.	46	6	- 46	a.K.	K.			50
"	9.	"	51	/2 "		Ļ.	W		45

Solid German White Glass Baths.





We make a specialty of these baths, having same made from special moulds at the first factory in Germany. They are extra wide and thick, and made of specially annealed flint glass. Process workers would do well to correspond with us when desiring to purchase.

	Size.		The state of	ice.				Pri	
5	x 7	\$	0	85	In	wooden boxes	with supports	\$	2 25
7	x 9	***************			"	"	"		2 90
9	XII		I	80	"	"	"	6	1 00
II	XI4		3	15	"		"		30
12	XI5		4	75	"	"	"	7	7 75
15	X20		10	20	"	"	**	14	
161	2x201/	ź	17	00	"	"		21	. (200)
18	X22		25	00	"	"	"	31	50

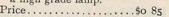
DARK ROOM LANTERNS.

Small Size Ruby Lantern.

Pocket form, absolutely safe, burns kerosene. Price, \$0 50

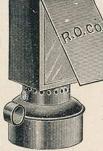
"Beauty" Ruby Lantern.

Same style as above, but with larger illuminating surface, body of highly polished brass, a high grade lamp.



The Universal No. 2 Ruby Lantern.

A superior lantern, combining perfect ventilation with larger illuminating surface, body is hinged to the lamp at the back and light is controlled from the outside. Price.....\$0 90



The Carlton Lantern.

Made upon an improved plan, giving an abundant draft and complete ventilation, hence no smoke, no fume, but a steady, safe light and plenty of it. The front is fitted with both orange and ruby glass. The body is hinged at the back, giving easy access to the interior. The flame is regulated entirely from the outside. The back of the lamp serves as a reflector, and aids in producing a volume of light sufficient for work in any dark room. Made in two sizes.

Price, No. 2.____\$1 70 Tisdall's Ruby Candle Light.

Consists of Ruby chimney and brass candle holder. No dirt or smell. Price, each_____\$o 85

Perfection Magazine Flash Lamp.



The Perfection is considered the best magazine lamp yet produced for the use of pure magnesium. The magazine, when loaded to its full capacity, contains powder sufficient for twenty flashes. An instantaneous flash or a continuous flame of light may be produced, the length of exposure depending upon the will of the operator. The circular wick produces a large volume of flame, entirely consuming the full discharge of powder. Fitted with either mouth-

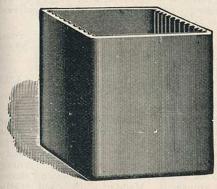
piece and tubing or bulb and tubing. State which is preferred when ordering. The extreme simplicity of the Perfection Lamp, the ease of manipulation, and the excellent results produced, will recommend it to all desiring a safe and thoroughly practical instrument at a low price. Price, complete......\$1 80

The Hemperly Magazine Flash Lamp.

Is the invention of one of the most successful workers in flash light photography, and is well and favorably known, owing to its extensive use among both amateur and professional photographers. The magazine will hold one ounce of magnesium powder, sufficient for a number of exposures. Price...... \$2 50 Pure magnesium, per ounce can...... 40

Note.—Pure Magnesium only must be used in the selamps. Magnesium compounds, flash light powders, etc., must not be used, as these are explosives, and if confined in the lamp and ignited, will explode.

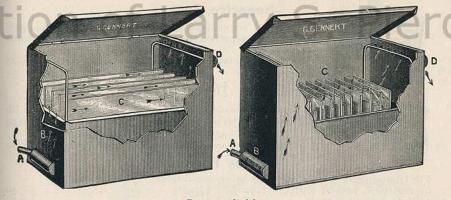
Hard Rubber Fixing Bath.



The only correct position for plates in the fixing bath being the vertical or standing one, these baths have been introduced to guard against the many failures resulting from fixing in trays. They are made of the material which best resists the action of photographic chemicals, are easily kept clean, and are provided with a ridge at the bottom which keeps the plate above any sediment that may collect. Each holds one dozen plates.

31/4 x41/4 or lantern slide plates	\$1 60)
4x5 plates\$1 80	5x8 plates 2 25	;
41/4 x61/2 plates 1 95	6½x8½ plates 2 70)
5x7 plates 2 00	8x10 plates 3 15	5

The Improved Washing Box.



Patent applied for.

After long experimenting we have evolved this form of Washing Box, which has many advantages. When used for large plates (see cut No. 1) the water enters at A through a series of holes across full width of box, and passing through an opening in the carrier at B through between the plates (arrows C) and out of holes at the top, so that there is a constant stream of water the full width of box, and all chemicals are carried off and out. Every plate is washed thoroughly. When used for small plates (cut 2) across the narrow way of box, water enters at B, passes through opening in carrier at D, and over and under plates (as per arrows C), and then out of the box, thus giving a constant stream the full width of box, as in No. 1. When plates are washed, carrier can be taken out with all the plates, and they can be left to dry. These boxes are made in two sizes. No. 1 carries twenty-two plates, 31/4 x 41/4 or 41/4 x 61/2 in the width, or ten plates 61/2 x 81/2 in the length. No 2 carries twenty-two plates 4x 5, 5x 7 and 5x 8 in the width, or ten plates 8x10 in the length.

Price, No. 1	 52.00
Price, No. 2	 2.25



33

Negative Boxes.

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

Size.	Pr	ice.		Size.	Price.
31/4×41/4	\$0	55	5	x 8	\$ 0 60
4 ×5		55	61/2	x 81/2	 75
41/4×61/2		60	8	XIO	 90
5 x7		60	10	X I 2	 1 35

The Dixie Vignetter.



A perfect and beautiful blender. Always ready for use. While you would be trying to decide what sized and shaped opening to use with the old style vignetter you can have the Dixie adjusted and ready for work, as it not only allows any desired opening

being formed, but also enables you to see at a glance just what size and shape is required and to make it as quick as you see it. Made of white wood, neatly

Size.	Price each.	Price per doz.	Size. Pri	
31/4 x 41/4	\$o 25	\$2 70	5 x 8\$	25 \$2 70
4 x 5	25	2 70	6½ x 8½	35 3 75
41/4 x 61/2	25			50 5 40
5 x 7	25	2 70	IO XI2	60 6 50



Negative Rack.

A cheap and convenient accessory for the dark room, preventing the negative from scratching while drying; holds Price, each, for plates up to 61/2 x81/2 -----\$0.25



The Globe Negative Rack.

Strongly made, having iron ends and wood side bars, with trough to catch drippings. They are two feet long and hold 43 plates, any size up to 14x17 inches.

Each.

Glass Forms.

For trimming photographic prints before mountings. Stereoscopic, arched top_____\$ 35 | 4\[\] \(\) 31/4 x41/4, square corners _____ 25

5 x8 6½ x8½ 4×5----- 35

Ground Glass.

Selected clear crystal plate for cameras, transparencies, etc.

31/4 x41/4	\$c	010	8x10\$0	25
			IOX12	
41/x61/2		10	IIX14	50
5 x7		15	14x17 Double thick 1	00
5 x8	************	15	18x22 " " I	
61/2 x81/2		20		

Orange and Ruby Glass.

Correct shades for Dark Room.

Size.	Per Light,	Size. Per Light
4 x 5	\$0 10	IOX12\$0 3
5 x 8		11X14
61/2 x 81/	2 20	11x14
8 x10	25	

Photographers Brushes.

A	Camels hair, flat, for dustin	Flat Bristle, used as paste brushes and for a variety of purposes.
	Size. Price	, Size. Price.
W	I in\$0 2	
M	1½ "	5 1 1/2 " 10
	2 " ;	0 2 " 15
	21/2 "	0 2 1/2 " 20
	3 "	0 3 " 25

Spotting Brushes, Finest Russian Sable Points.

Nos.	Each.	Dozen,
1 to 6	\$0 10	\$1 00
6 to 12		

Graduated Glasses.

Fine grade and absolutely accurate.

32 2	Each.	Each.
26 14	Minim\$0 15	8 ounce\$0 40
20 1H	½ ounce 15	12 " 50
	1 " 15	16 " 65
	2 " 15	24 " 90
E 11	3 " 20	32 " I IO
	4 " 25	48 " 1 75
	6 " 30	

Size. Of La runnels.	Plain Glass, Each.	Fluted Glass (filter). Each. \$0 09
1/2 "	10	14
i "	15	19
I quart	20	27
2 "	25	40
ı gallon	35	

Hard Rubber Funnels.

Size	Each. Size.	Each.
¼ pint	\$0 40 I pint	\$0 55
1/2 "	50 1 quart	60



	ach.
1 ounce, 21/2 x21/4 inches\$0	15
2 ounce, 3x23/ inches	20
4 ounce, 4x3 inches	25
8 ounce, 4¼x3½ inches	35

Glass Spirit Lamps.

With ground glass cap. 2 ounce_____



Mailing Envelopes.



Envelopes for mailing individual photographs. Mail your letter and photograph well protected in the same sealed package for 4c., and thus be assured of both reaching their destination in good order.

8	, , , , , , , , , , , , , , , , , , , ,	
Price, Cabinet size	Per pkg. of 25. \$0 35	Per box of 125. \$1 25
Price, 55%x75%	50	Per box of 100. \$1 50 2 50
Price, 8¾ x10½	,. I CO	Per box of 50. \$1 75

Negative Preservers.

Invaluable for preserving negatives from dust, scratches, etc. Consists of stout paper envelopes open at one end, with thumb hole and printed lines for name, number and remarks referring to the negative. Fifty in a package.

Size. Pe		Size.		rice
31/4×31/4			\$0	
4 x5 or 41/4 x51/2		1/2 x 81	2	32
4¼x6½		XIO		40
5 ×7	28 10	XI2		70



The Globe Mounter, the best mounter and squeegee on the market. Covered with soft white rubber. See illustration.

Size	Price Wood Roller		
6 inch	\$0 90	\$1 35	
8 inch	1 15	1 60	
Io inch	I 45	1 80	

The Petite Print Mounter

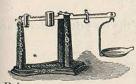
Scales and Weights.





Army Prescription Scales.

New Patent Dispensing Scales.



No weights. Quickly adjusted. It has a 9-inch nickelplated beam, neatly mounted on a japanned iron standard. The front end of the beam weighs from 1 to 30 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.

THE OWN AND DESIGNATION OF THE PARTY OF THE

Retouching Pencils, (Faber's) Points, Etc.

Yellow Siberian, Nos. BB-1, B, H B-2, F-3 H, HH-4, 3 H, 4 H, 5 H, 6 H. Per dozen Nos. 1, 2, 3 and 4 form a collection especially suited	51 20
for ordinary use. Red Hexagon, Nos. 1, 2, 3, 4, 5. Per doz.	75
lead, double pointed. Each	35
Artists' Pencil, with Siberian lead, single pointed. Each	25
Siberian Leads, 6 in box, No. 2 B to 6 H. Per box. Regular Leads, 6 in box, No. 1 to 5. Per box.	65
Per box	35
Smith's Metallic Points. Each\$0 15 Per doz	1 50

The New Columbian Transparent Water Colors



for coloring photo portraits or views, lantern slides, transparencies, engravings, etc., on any kind of paper. These are not liquid colors, but are moist and put up in cups, the complete sets being contained in handsome tin case. They are easy to apply; very effective and more durable to light than any liquid colors, and as they are sold in a condensed form greater strength can be secured than with the diluted liquid colors. They are also more economical as they neither spill, freeze nor precipitate. Each box contains 8 large pans, one each of the

The New Acme Water Colors

Amateur size.	Price, per box	\$1 00

Lantern Slide Mats and Strips.

Lantern Slide Mats, with either square, round or oblong opening. State	
opening desired when ordering.	
Package of 25\$	23
Gummed Binding Strips	15

Thin Crystal Glass for Lantern Slide Covers, Transparencies, etc.

Size.	Dozen.
31/1 X 4	\$0 25
61/4 x 8	I 20
8 x10	Dozen.

Burnishers.

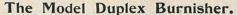
We can save you money on any burnisher made. Write for prices before purchasing elsewhere.



Entrekin's New Victor Burnisher

With patented movable burnishing tool and one wheel adjustment for giving a uniform pressure and perfect accuracy of adjustment, with one motion. So built that gas or coal oil lamp can be used for heating; 8 inch roll.

Price \$8 75





This is a new machine, built to meet the growing demand for a good double roll Burnisher in small sizes at lower prices than heretofore offered. It is thoroughly well made in every detail. Top roll is hinged, and pressure can be quickly and perfectly adjusted, and gives first-class results. Size.

8-inch, with oil or gas heater_\$ 9 00 10-inch, " " -- 11 25

The Model Burnisher.

Similar in construction to above, with stationary tool, which we offer at the following reduced prices:

Entrekin's Accurate Rotary Burnisher.

This machine has the one wheel adjustment, the lock nut and set screw and swing fire pan. It may be heated with oil or gas. Specify which is wanted. Price, 10-inch roll \$18.00



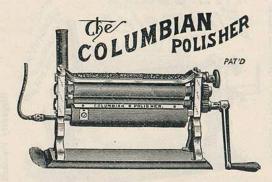
This caps the climax in burnishing machines. It embodies the best features of the quadruplex enamelers heretofore recognized as the ne plus ultra among burnishers, and the Humphrey Patent Hollow Roll, and heaters, constituting a machine which leaves nothing to be desired and which is pronounced absolutely perfect. Advantages:—They heat in three to five minutes and save 75 per cent. of gas. Either gas or gasoline is used for heating, no smoke is possible. No other machine will give as fine a gloss; prints cannot be scratched with this machine, rolls never sweat a particle, pictures are not liable to stick to the roll or pull off the cards, oil from the journals does not get on the rolls and soil them; the polishing roll does not attract the dust and moisture from the atmosphere and become soiled; the pressure is always perfectly uniform, and is quickly adjusted by turning one hand wheel; the heat from this machine causes the operator less discomfort than any other, as the surplus is carried upward through the chimney The chimney also creates a circulation of air through the roll, which secures perfect combustion of the gas. The burner inside the roll is perforated in zig-zag shape on the bottom, the flames thus furnish direct heat to the bottom of the roll; from this surface the heat is deflected and rises to the top, thus heating the entire surface uniformly, and the degree of heat is controlled perfectly by the lever at the left. In perfection of mechanical construction it has no equal; in beauty of design and elegance of finish it stands unrivalled; it is full nickel plated. In an emergency this machine may be heated in 3 to 5 minutes, and a few prints burnished while a customer waits. This is wholly impracticable with solid roll machines, requiring from 30 to 60 minutes to heat. Every machine warranted perfect and satisfactory. In ordering don't forget to specify whether gas or gasoline attachment is wanted.

Size.	Price.	Sizė.	Price.
TO in	\$27 00	20 in	\$45 00
15 in	36 00	25 in	54 OO

Particular attention is directed to the

STEREOSCOPES

Listed and described in the latter pages of this book. They are entertaining a great many of our customers and may interest you.



Best Solid Double Roll Two Cog Burnisher ever produced. No more annoying sweat on rolls. No more roasted operators. The fire-box for heating the lower roll is the same new design with closed bottom and chimney attachment as that adapted for the Improved Quadruplex. It is the most important improvement for Solid Two Roll Machines ever introduced, as it does away almost entirely with sweating, saves time in heating and carries off overhead the surplus heat which has heretofore been such a great discomfort to operators. Gasoline Heaters are supplied to all who have no gas. These heaters are more powerful, cleaner, smokeless, and in every way more satisfactory than oil. The advantages of these machines are: They never scratch, quick and clean heating attachments, they give an enamel gloss, no discomfort from heat, automatic springs above bearings, rolls do not sweat, pressure always uniform and quickly adjusted with one hand wheel, superior mechanism, elegance of design and finish, lowest price. The best and the cheapest Solid Roll, Two Cog machine made. Specify when ordering whether gas or gasoline heater is wanted.

Size S-inch, w	ith Gas	or	Gasoline Heaters	Eac	h.
10-inch,	- 66	14	***		75
15-inch.	"	"	***		00
20-inch,	"	"	44		00
		or c	onnecting gas sup	ly pipe with burnisher, 10 cents per f	

Dry Plates

Stanley and Excelsior Brands. Under these names we list some of the most popular plates on the market at prices that should be a consideration to every photographer. These brands are well known and are unsurpassed in working qualities, brilliancy and cleanliness. The Stanley No. 50 and Excelsior are extremely rapid, suitable for instantaneous and portrait work. The Stanley No. 35 are for general viewing. When ordering, state size and brand, and whether fast or slow plates are wanted. This not being done we use our own judgment in filling orders.

Doz. in case.		Price per doz.	Doz. in case.	Size.	Price r	er doz.
		\$ 0 15	12	-61/2 x81/2	9	1 00
40			12			
		25	12	-8 x10		
39			3			
24			3	IIXI4		3 00
24			2			
28	4 4 x6 1/2	54	I	16x20		7 50
22			I	17X20		7 80
	5 x 7		1	18x22		9 30
22	5 x 8	75	1	20X24		

Seed's Dry Plates (Gilt Edge No. 27 Extremely Rapid,) and Cramer's Banner (Medium) Brands

The plates are too well known to need any introduction to photographers. State *brand* and *size* wanted when ordering.

Doz.	Sizes.	Price per doz.	Per doz. in case lots only.	Doz.	Sizes.	Price per doz.	Per doz. in case lots only.
	-31/4×41/4		\$ 0 37	3	IOX12	\$ 3 40	\$ 3 04
	4 x 5		53			4 50	4 00
28	41/4 x61/2	- 80	72	2	-14X17	8 10	7 20
	-5 x 7		88		16x20		10 00
	-5 x 8		I 00	I	_18x22	13 95	12 40
	61/2×81/2		1 33	1	20X24	16 65	14 80
12	8 x10	- 2 15	1 92				-

Lantern Slide Plates.

Size 3¼x4 in., thin crystal glass, per doz._____\$0 50

Celluloid-Films.

The ease with which the cut films may be used, and their compactness, are reasons for their use by photographers to whom weight and space are considerations. It requires about 10 dozen films to weigh as much as one dozen plates. They are manipulated in the dark room the same as glass plates.

Sizes.	Price, per doz.	Sizes.	Price, per doz.
31/4×41/4	\$0 50	5 x 8	\$I 40
4 X5	72	61/2 × 81/4	I 90
41/4 x 61/2	I 00	8 x10	2 70
	I 25		Dios

Ferrotype Plates.

Eggshell, blackper	dozen	\$0 40	per case of	200 sheets,	IOX 14	\$ 5 00
Empire Eggshell, black	"	50		66	"	6 00
Pennsylvania, tinted	"	60	44	"	"	7 00
Pennsylvania, black	44	60	"	"	44	7 00
Monarch, glossy	66	75	"	"	"	10 50
Tinted, glossy	"	75	"	"	66	11 00

Extra Heavy Squeegee Ferrotype Plates.

FOR SQUEEGEE PRINTS.

Ci			
Size IOXIA F.a.	n 40	20	Dozen\$2 00
	ore the	20	102011 52 00

Hard Rubber Plates.

FOR MAKING SHUTTERS, SQUEEGEEING PRINTS, ETC.

4x5 1 in thick, each \$ 5x7, each \$ 5x8, each \$	io 10 18 20	8 x10, each\$0	30 40
3/10/ 04/04/11/11/11/11/11/11/11/11/11/11/11/11/11	20		

Assorted Papers

113501 ted 1 apers	
Onion skin, for vignetting, per dozen	0 18
Сера " " "	18
Gum or Sticking Paper "	18
Post Office vellow paper for dark room, per sheet	900
Post Office, yellow paper, for dark room, per sheet	03
Corbutt's Pub. Perser for deal	30
Carbutt's Ruby Paper for dark same and but	
Carbutt's Ruby Paper, for dark room, per sheet	20
Filtering Paper, best gray, round, 13 inches diameter, per package of 10 sheets	IO
" " 13 " - " " 100 "	75
Best Litmus Paper, 100 sheets to bottle, red or blue, per bottle	
Discrete Printed Paper, 100 sheets to bottle, red of blue, per bottle	14
Blotting Paper, heavy, 19x24, per sheet	IC
" " " 19x24, per dozen	75

Gelatine Printing Papers

"K Special Aristotype Paper," an excellent gelatine printing out paper at prices far below that at which other papers are sold. Can be used with combined or separate toning baths, and is suitable for either strong or soft negatives. A finished print is durable and not easily scratched or marred.

Size	Doz.	Gr	oss	Size	Do		Gre	oss
21/4 x37/8	.\$0 10	\$0	45	6 x 8	\$o	30	\$2	75
3 ×4	. 10		60	6½x 8½		35	3	00
2¾ x5 5/8	. IO		75			35	3	50
31/4 ×41/4	. 10		75	7½ x 9½		40	3	75
3½ x3½ Bull's Eye	. IO		75	8 x10 .		45	4	00
37/8×5½	. 12	1	00	IO XI2		65	6	00
37/8×57/8	. 12	I	00	II X14		75	7	50
4 ×5	. 12	I	00	14 x17	I	50	12	00
4 x6	. 15	I	20	16 x20	I	75	16	00
4¼x6½	. 15	1	40	18 x22	I	75	20	00
5 x7	. 20	I	75	20 X24	2	00	22	00
5 x8	. 25	2	00	Seconds, 4x	and cabinet			75
5½×7¾		2	50		and cabinet			
In rolls, 25 inches wide, 1	o feet 1	ong.	Per					

Kirkland's Lithium Paper

A gelatine paper which requires no ice in Summer and no thermometer to test solutions. Have you ever tried it? If not it will pay you to do so. It is a reliable paper and will print with brilliant high lights, giving silky half-tones and rich transparent shadows; specially adapted for coloring.

		GL			GL	OSSY
		oz.	Gross	Size	Doz.	Gross
	31/2 x 31/2 Bull's Eye\$0			5 x 8	\$0 40	\$3 00
	31/4 ×41/4 · · · · · · · · · · · · · · · · · · ·	20	I 20	6 x 8	50	3 75
e	4 ×5			6½ x 8½	55	4 10
	3 x4 Mantello			7½ x 9½	70	5 75
i,	37/8 x 5 1/2 Cabinet	25	1 50	8 x10	75	6 00
	4 x6	25	I 50	IO XI2		9 00
	5 ×7 ·····			II XI4		
	10-yard roll, 25 inches wide.					.\$4 00
	Seconds, 4x5. Per box of 10	oo sh	neets	vill be charged at dozen rat		. 75

COLLODION PRINTING PAPERS American "Aristo," Blue Label and Aristo Platino.

Saves time and laber, gives superb definition and beautiful finish, does not fade, and is unequalled for brilliancy and depth of tone. The almost universal adoption of the American "Aristo" paper by the professional photographers of the United States is a proof of its excellence. The paper is ready for immediate use in the printing frame, no silvering or fuming being necessary. Its keeping qualities are unequaled; no waste from long printing during dull weather. For quickness in printing and for bringing out the finest details in the negative, it is without rival. The results are quite permanent and of a delicacy and brilliancy unattainable with any other printing out paper. It may be finished with either a matter or glack surface.

Size.		Dozen. \$0 20	½ Gross.	Gross. \$1 60
4 x 5		25		2 00
334 x 51/2	(Cabinets)	25		2 00
4 x 6		25		2 00
5 x 7		40	\$ 1 85	3 50
5 x 8		45	2 10	4 00
51/2 ×73/4	(Paris panel)		2 65	5 00
			3 15	6 00
7 x 9		100000	3 70	7 00
8 x10			4 20	8 00
10 X12		1 25	6 30	
11 X14		1 50	7 90	
14 X17		2 25	12 60	
18 x22	half dozen, \$2 00	4 00		
20 X24	" " 2 25	4 00		

Celoxa Printing Paper (Collodion)

A new and excellent paper which we recommend to our friends who prefer using Collodion paper. It is absolutely uniform and reliable, and gives brilliant results without the use of special negatives or complex formulæ. Guaranteed for permanency of results when used as directed. Made both in glossy and mat surface.

		Loss	M	ATT
Size	Doz.	Gross	Doz.	Gross
3 × 4 ·····	\$0 15	\$ 1 00	\$0 15	\$ I 40
3½ x 3½	. 20	I 20	20	I 60
3½ x 4½	20	I 20	20	I 60
37/8× 5½	. 25	I 60	25	2 00
37/8 x 57/8	. 25	I 60	25	2 00
4 × 5 ··································	. 25	I 60	25	2 00
4 x 6	. 25	I 90	25	2 00
4¼ x 6½	. 30	2 20	30	2 50
5 × 7 ······		2 80	40	3 50
5 x 8	. 40	3 20	45	4 00
6 x 8	. 50	4 40	55	5 50
6½ x 8½	- 55	4 80	65	6 00
7½ × 9½ · · · · · · · · · · · · · · · · · ·	. 70	6 00	80	7 50
8 xio	75	6 40	90	8 00
IO XI2	I IO	9 60	I 25	12 00
II XI4	I 25	12 00	I 50	15 00
14 x17	1 85	19 20	2 25	24 00
Bromide Pape	r.			

For enlarging and contact printing. Standard—for ordinary negatives or daylight. Quick—for harsh negatives or artificial light. State kind wanted when ordering.

Size.		Per doz.	Size.	Per doz.
31/4 x 41/4 in		\$ 0 15	IIXI4 inch.	\$ 2 15
4 × 5	"	- 25	12x15 "	2 40
41/4 x 51/2	"	_ 30	14X17 "	3 60
41/4 x 61/2	"	- 35	16x20 "	4 80
43/4 x 61/2	"	- 40	17x20 "	5 25
5 x 7		- 50	18x22 "	6 00
5 x 7¼	"	- 55	20X24 "	7 25
5 x 8	"	60	22X27 "	8 50
0/2 4 0/2	"	- 90	24×30 "	10 00
8 x10	"	I 20	25×30 "	10 50
10 X12	"	I 80	24x36 "	13 00
10 X14	"	2 00	30x40 "	18 00

If ordered in packages of less than one dozen, 25 cents extra will be charged for packing. The exposure on P. M. C. Bromide Paper varies with the density of the negative and the quality and intensity of the light.

Albumen Paper.

Ready Sensitized Albumen Paper. Put up in light-proof packages of two dozen sheets.

Size. P	erpkg.	Size.	Per pkg.
31/4 × 41/4	\$0 25	5 x 8	
4 x5		6½x 8½	95
4¼x6½	47	8 x10	I 40
5 ×7		18 x22 Per doz. sheets	2 85

Celerite Matt Surface Paper.

A superior paper for amateurs' use as well as professionals, easily handled and satisfactory results obtained in black and-white or sepia effects; entirely new process, no tedious washings or expensive chemicals required. Full directions with each package.

Size.	Per ¼ Gro.	Per Gro.	Size.	Per ¼ Gro.	
4×5	\$0 40	\$1 50	5x8	\$o 8o	\$3 00
Cabinet	40	1 50	6½ x8½	I 10	4 00
5x7		2 60	8x10	I 60	6 00
20x24. Per doz					3 00

Note.—Unless otherwise ordered we send medium weight paper suitable for mounting. Is made in extra heavy for binding in book form unmounted.

Ferro-Prussiate or Blue Paper.

MONTGOMERY WARD & CO., CHICAGO.

Royal Ferro-Prussiate or Blue Paper, for making blue and white picture easy to manipulate, requires no toning. Prints can be made very rapid	s, very
chemicals required in the use of this paper. It is merely printed for ab	out ten
chemicals required in the use of this paper. It is interly printed to the	This
minutes in the sunlight, and then washed thoroughly in clean water	illianov
paper is manufactured expressly for our trade, and is unsurpassed for or	mancy
of color and finish. Will retain its sensitiveness longer than any othe	r paper
on the market. Full and complete directions for working accompanie	es each
package. Put up in light-tight packages of 24 sheets.	
paper is manufactured expressly for our trade, and is unsurpassed for brof color and finish. Will retain its sensitiveness longer than any other on the market. Full and complete directions for working accompanies package. Put up in light-tight packages of 24 sheets.	illiancy r paper

Size	Per Pkg.	Size	Per	Pkg.
31/4 × 41/4 · · · · · · · · · · · · · · · · · · ·	\$0 15	5 x 7		0 35
3½ x3½		5 x 8		40
4 x5		6½ x 8½		50
4½ x6½		8 x10		65

Photographic Sundries.

Plate Lifters, prevents soiling the fingers, each	\$0 10
Alpha Rubber Finger Tips, per set of 3	15
Gossamer Rubber Focussing Cloths, best quality, ample size, each	50
Hydrometers, single degree, for testing photographic solutions	50
Copelin's Opaque, per bottle	
Photo Clips (Lockwood), each	. 5
" per dozen	40
Photographers' Note Book, for recording exposures, neatly bound, price	
with pencil, each	20
Robinson's Straight Trimmers, for trimming photo, each	. 20
" Revolving " " " "	25
Glace Polish, to apply to prints before burnishing, per box	. 20
Artists' Cuffs, to prevent soiling the sleeves and cuffs while developing,	
Per pair	50
	AL SHEET SE

Righter's New Film Negative Book

The latest novelty in the photographic sundry line. For keeping film negatives in they are perfect. By a peculiar arrangement of leaves of the books, the top of every two leaves being joined, the negatives are held in their places firmly, and do not fall out when book is opened. Negatives may be removed easily at any time They are indexed for ready reference. A great convenience when making prints.

Size. Pric	ce.
6x2% inches, for 18 pocket kodak double film negatives, (or 36 11/2 by 2 inch	
pictures)\$o	18
	22
6x8 inches, for 18 5x7 inch " " " " " " " " " " " " " " " " " " "	30
	40

Developing Tongs.

	A convenient article when developing, to
A. 0. co.	prevent the necessity of touching plates with the fingers.
No. 1 for 31/4 x41/4 to 61/2 x81/2 p No. 2 for 5x7 to 8x10 plates, es	

The "L" Photo Plate Holder

To be attached to the developing tray. Prevents breaking finger nails and scratching negatives. Saves time and patience. Each......\$0 20

The "Success" Washing Box.

Made of Japanned Tin and is the best cheap box on the market.	Made in two
sizes. For 4 x 5 plates, each	\$0 35
For 5 x 7 plates, each	50

Card Printing.

We print photographers names and address on cards, size 6½x8½ or smaller, and embellish same with line border, in one of three styles of type, LIGHT	and
FACE, straight, old English or script, at following prices.	FAC
Black ink, per 1,000\$0 75	Black
Colored " "	Color
Gold " " 1 25	Gold
We will not print less than one thousand cards, and these must be of the same	V
form, but as an accommodation to our patrons we will allow a selection of a variety of cards.	

Amateur Developing and Printing.

While we do not do developing, printing and finishing for the amateur trade, we will be pleased to send price list, upon request, and to refer our patrons to thoroughly competent, and responsible parties who make this work a specialty.

Card Mounts.

Card mounts are cards upon which to paste the finished print. As the appearance of the finished photograph depends in no small degree upon the manner in which it is mounted, a good picture is worthy a good mount. Our mounts are put up in packages of twenty-five, and we do not sell less than a package. Note great reduction in prices from former quotations.

24320-Plain white cardboard mounts, fair quality.

	Administration (Alexander)			
Size Per Pkg.		Size	Per Pkg.	Per 100
6½ x 8½ \$0 20	\$0 55	IOX12	\$0 35	\$1 05
8 x10 25		11x14	40	I 31
24321-Extra heavy, white card				
	Per 100	Size	Per Pkg.	Per 100
Size Per Pkg. 3 ¹ / ₄ x4 ¹ / ₄	\$0 35	8 x10		2 00
	10 33	10X12		3 00
4 ×5 ····· 15	40	10.112		
5 x8 30	95	11x14	1 00	3 75
0½ x8½ 40	1 50			
24322—Unenameled, good qual				
Size Per Pkg. 3 ¹ / ₄ x4 ¹ / ₄	Per 100	Size	Per Pkg.	Per 100
31/4 x41/4\$0 10	\$0 35	5 1/4 x 8 1/2	\$0 25	\$0 80
4¼ x5¼ 15	45	6½ x 8½	30	I 00
5 x7 20	55	7 x 9	35	I 25
5 x8 22	75	8 x10	40	I 45
24323—Unenameled, extra heav	v. plain be	eveled edge, round corn	ners, assorted	
Size Per Pho	Per 100	Size	Per Pkg.	Per 100
Size Per Pkg. 4 ¹ / ₄ x5 ¹ / ₄	\$0.75	61/4 x 81/4	\$0.55	\$1 70
4/4/3/4	T 20	8 ×10	70	2 45
5 x7 35	I 20	8 x10	T 00	3 45
5 40 45	1 40	heavy weight light o	mbor and whi	
24324—Gold Bevel Edge, good	quanty and	i neavy weight, light a	mber and whi	D 100
Size Per Pkg. 3½ x4½ \$0 30 4¼ x5¼ 35 5 x7 55 5 x8 60	Per 100	Size	Per Pkg.	Per 100
3½ x4½50 30	50 90	6 1/2 X 8 1/2	\$0 70	\$2 65
4½ x5½ 35	I IO	8 x10	I 00	3 90
5 x7 55	I 90	IO XI2	2 00	7 13
5 x8 60	2 10	A PRODUCTION		
24325—Bottle Green, gold beve	er eages, gra	ay Dack.		
Size Per Pkg. 4½ x5½ \$0 40 4 x8 70	Per 100	Sizo	Per Pkg.	Per 100
41/x51/	SI 45	61/2 x 81/2	\$1 00	\$3 60
4 x8 70	2 50	8 x10	I 40	5 50
24326—Same as above in maro	on instead	of bottle green		• •
24327—Extra heavy, best qual	ity mounts	with wide gold beve	ledge None	better.
Primrose color.				
Size Per Pkg.	Per 100	Size	Per Pkg.	Per 100
Size Per Pkg. 4x5\$0 85	\$3 25	6½ x 8½	\$1 50	\$5 25
5x8 t 25	5 00	8 XIO	2 00	7 50
24328—Extra heavy, best quali	ty mounts,	extra wide, gold bevel	edge, in bottle	e green.
An elegant card for the fines	t work.			
Size Per Pkg.	Per 100	Size	Per Pkg.	Per 100
Size Per Pkg. 4x5	\$3 65	6½ x 8½	\$1 60	\$6 00
5x8 I 40	5 50	8 x10	2 25	8 75

Cabinet Size Mounts

For mounting 41/4 x61/2 and smaller prints.			
24330—Enameled both sides, straight edge, round corners.	Per Pkg.	Per 100	Per 1,000
white, good quality; an extra value mount	\$0 IO	\$0 40	\$ 3 75
beveled edge	15	50	4 85
lithographed back	18	65	6 25
24333—Extra heavy, plain white cardboard, square corners 24334—Extra heavy, plain beveled edge, round corners,	20	70	6 25 6 50
best quality, assorted tints	20	70	6 75
best quality, assorted tints	20	75	7 00
sorted tints	25	85	8 50
silver beveled edge; a beautiful mount	25	90	8 75
cornered mounts, assorted tints	40	1 25	11 50
black only	40	1 45	12 50
corners		1 60	15 00
ners		1 60	15 00
round corners, none better, primrose only	90	3 25	32 50
24344—Same as above except color is bottle green	I 00	3 63	36 30

Mantello Card Mounts

"Mantellos" are the latest and most popular mounts. The beauty of a finished print is greatly enhanced by the use of these cards, they giving the picture the appearance of being mounted in a matted frame. Cards are fine quality embossed board, with relief center, sunken border and plain or crenate edge.

24350—Size of card, 278x3½ in.; for "Pocket Kodak" (1½x	er Pkg.	Per_100	Per 1,000
2 in.) pictures, straight edge, assorted tints	60 IO	\$0 40	\$ 3 75
nate edge, white	12	45	4 00
picture, straight edge, white and tinted	14	50	4 50
24353—Size of card, 3x3 in.; for prints, 13/4x13/4 in., crenate edge, white	15	55	5 00
24354—Size of card, 3¾ x3¾ in.; for prints, 2½ x2½ in., crenate edge, white	16	60	5 50
	18	65	5 60
24356—Size of card, 3½x4½ in.; for prints, 2½x3 in., or smaller, crenate edge, white	24	85	8 10
24357—Size of card, 5x5 in.; for Hawk Eye Jr., Bulls Eye and Quad (3¼x3¼), pictures, straight edge, assorted			
tints	25	90	8 65
edges, white	25	90	8 75
embossed border, assorted tints	35	1 15	10 65
beveled edge, extra heavy cards, assorted tints	40	1 35	12 85
5x7 in	75	2 50	22 50
6½x8½ in 24363—Size of card, 11x14 in.; relief center, for prints,	I 10	4 00	36 00
8x10 in	1 25	4 50	41 00
Toxt 2 in	2 25	8 50	76 50

Miscellaneous and Stereoscopic Mounts, Ferrotype Holders, Etc.

	Per Pkg.	Per 100	Per 1,000
24370—Yuko cards, for 4x5 prints, extra heavy, plain beved edge, embossed border, assorted tints, a beautif			
mount	\$0 20	\$0 75	\$6 90
24371—Carte de Visite Mounts, sizes, 2½x4¼ in.; enam		20	2 00
ed back, plain face, in white, primrose, rose, pearl 24372—Caterson's Ferrotype Cases, card size, assort		30	3 00
tints, red borders, oval opening		35	3 50
24373—Caterson's Ferrotype Cases, cabinet size, arch			
oval openings, assorted tints		1 00	9 00
dark buff and gold	15	45	4 00
24375—Stereoscopic Mounts, 4x7 in.; enameled, red-pir		6-	
light buff, dark buff		60	5 50
Note-We will be pleased to quote, upon request, prices on F	errotype enve	lopes and	cases, any

size desired. Correspondents should name size of tin-type cases are for.

Higgins Photo Mounter.



A new preparation for mounting photographs. An always ready adhesive, which will not spill, spatter or drop off the brush. Never hardens, separates or becomes gritty. Does not cockle, strike through or change the tone. Never moulds, sours or deteriorates in any way. A unique adhesive, scientifically made to meet the special requirements of photographic mounting. Prices in screw capped jars:

	Ea	ch.
2 07	\$0	14
3 Oz		23
14 OZ.		45
14 0z	2	00
1 "	3	50

IF YOU WILL DROP a postal card request to our Book Department,

SPECIAL CATALOGUE S

Will be mailed you free. This catalogue lists, at wholesale price, a great many books of particular interest to professional or amateur photographers.

READY MIXED DEVELOPERS, TONING SOLUTIONS, INTENSIFIER, ETC.



Next in importance to the lens, camera and plate is the developer, and pho-

	tographers should be careful to use only the best, carefully compounded after correct formulæs. We manufacture all our own solutions and they are the best.
ø	M. W. & Co. "Eikonogen" Developer
	Concentrated. One of the best. Per 8 oz. bottle with directions
	M. W. & Co. "Hydrochinon" Developer. Concentrated. What is said of the Eikonogen applies as well to this. Per 8 oz. bottle \$\sigma_2\$
	M. W. & Co.'s Eiko-Hydro Developer. Concentrated. A properly proportioned mixture of Hydrochinon and Eikonogen. Gives beautiful results. Per 8-oz. bottle \$27
	M. W. & Co. Hydro Metol Developer. Concentrated. Combining the good qualities of Loth Hydrochinon and Metol. Works with extreme rapidity and gives a beautiful negative. Strong in contrasts. Per 8 oz. bottle \$\infty\$ 40
	M. W. & Co. Pyrogallic Acid Developer. Concentrated, in two solutions. To those who prefer Pyro as a developing agency we cannot recommend a better than this. Per package of 2 8-oz bottles \$0.50
	M. W. & Co. Ferrous Oxalate Developer.
	In two solutions, concentrated. Suitable for any purpose that a developer can be used for, but specially intended for lantern slides, bromide papers, etc.
	M. W. & Co. Intensifier.
	Invaluable for strengthening weak negatives.
	Price, 4-oz. bottle \$ \text{\$5} \text{\$25} \text{\$Price, 16-oz. bottle}\$\$ \$-\text{\$5} \text{\$65}\$\$
	M. W. & Co. Combined Toning and Fixing Solution. Ready for use. Works equally well on all aristotype papers. Per 8 oz.

M. W. & Co. "Hardener."	
For use in hardening aristotype prints. Per 16 oz. bottle\$0 4	5
M W 9 C. Bernel Tering Solution	
M. W. & Co. Prepared Toning Solution.	
For albumen and aristotype papers. Saves annoyance and trouble as it needs only to be diluted to be ready for use. Per 4 oz. bottle	0
M. W. & Co. Prepared "Soaking" Solution.	
In which to immerse roll films after developing to prevent curling. Per 8 oz. bottle\$0 3	
Per 16 oz. bottle	O
M. W. & Co. Permanent Reducer.	
For the reduction of dense negatives, transparencies and bromide prints. Per 8 oz. bottle	
rer o oz. bottle	. 5
Toning and Developing Powders.	
Hale's Toning Powders. Per ¼ lb. box	25
" " Per I lb. box	65
Eikonogen Developing Powders, suitable for dry plates, films, or bromide paper. Contains 12 packages each of No. 1 and No. 2; sufficient for 48	1
oz. developer. Price, per box	50
Flash Powder and Cartridges	
Blitz Pulver. Per oz	
Magnesium Cartridges; for flash-light photography.	35
No. 1, small size, 6 in package	40
" 2½, large " 6 "	75
Varnishes, Collodions, Gelatines and Cottons	i
Negative Varnish, per 4 oz. bottle\$0	27
" " 8 "	47 70 32
Bizarre Retouching Fluid, for producing a retouching surface on	90 45
E. A. Cotton Negative, positive, Nos. 1 or 2, each per oz	22 60 50 20
	35

3 sheets I

1 16-Ounce Bottle Toning

Fixing Solution.

Photographic Chemicals.

Remember all chemicals are bought and sold by avoirdupois weight, which is 4371/2 grains to the ounce, and 16 ounces to the pound, while at the same time they are mixed by apothecary's weight -480 grains to the ounce, and 12 ounces to the pound; hence, if you should get but 4371/2 grains of any chemical for an ounce, do not think it short weight. We do not sell chemicals in less quantities than quoted below, neither do we break packages.

Acid, acetic, No. 8, 1 lb. bottle\$0 16	Mercury, bi-sulphate, per oz 15
Acid, citric, 1 oz. bottle 10	
Acid, muriatic, 2 oz. bottle 18	
Acid nitria r on bottle	Mercury, bi-sulphate, 1 lb. bottle_ 1 25
Acid, nitric, 1 oz. bottle 15	Magnesium, pure, per oz 40
Acid, nitric, ½ oz. bottle 10	Potassium, meta-bi-sulphite, per
Acid, oxalic, 2 oz. bottle15	OZ 15
Acid, pyrogallic (H. & F.) 1 oz.	Potassium, meta-bi-sulphite, 1/4
can 35	lb. bottle25
Acid, pyrogallic (Anthony's) 1 oz.	Potassium, meta-bi-sulphite, 1/2
bottle 35	lb. bottle50
Acid, pyrogallic (Schering's) 1	Potassium, meta-bi-sulphite, 1 lb.
oz. can 35	bottle I oo
Acid, pyrogallic (Mallinkrodt's) 1	Potassium, bromide, 2 oz. bottle 15
	D
	D
	Potassium, carbonate, ½ lb. bottle 20
Acid, sulphuric C P., 1 oz. bottle 12	Potassium, cyanide, 2 oz. bottle 14
Alcohol, 1/2 pint bottles, 98 per	Potassium, cyanide, ¼ lb. bottle_ 25
cent deodorized 25	Potassium, cyanide, 1 lb. bottle 65
Alum, pulverized, 1 pound pack-	Potassium, ferri-cyanide (red
age18	prussiate), per lb 80
Alum, chrome, ½ lb. bottles 20	Potassium, ferri-cyanide (red
Ammonia, liquid conc., U.S.P., 1	prussiate), per oz20
lb. bottle 26	Potassium, ferro-cyanide (yellow
Ammonia, bromide, 1 oz. bottle 12	prussiate), per lb 60
Ammonia, bichromate, bottle in-	Potassium, ferro-cyanide (yellow
cluded, per lb 1 25	prussiate), per oz 12
Ammonia, carbonate, bottle in-	Date of the test o
al., d a d 11.	Potassium, flodide, i oz bottle 35 Potassium, neutral oxalate, i lb.
	Platinum Chlorida par or
Ammonia, sulpho cyanide, 1 oz.	Platinum Chloride, per oz 7 00
bottle 14	Platinum Chloride, per 15 gr.
Chloroform, 1 oz. bottle 15	bottle 50
Ether, sulphuric concentrated, 1	Rodinal, per 3 oz. bottle 55
lb. bottle	Rodinal, per 8 oz. bottle 1 00
Eikonogen, crystals, 1 oz. bottle 35	Rodinal, per 16 oz. bottle 1 80
Eikonogen, crystals, per ¼ lb 1 20	Silver, nitrate, 1 oz. bottle, per oz. 65
Glycerine, 2 oz. bottle 15	Silver, nitrate, 8 oz. bottle, per
Glycerine, 1 oz. bottle 8	bottle 4 00
Gold, chloride and sodium, 15 gr.	Silver, bath solution, 40 grains
bottle 35	strong, I pint bottle I 75
Gold, chloride (dry), pure, 15 gr.	Silver, bath solution, 40 grains
bottle 50	strong, I quart bottle 3 25
Hydrochinon, in tins per ounce. 35	Soda, acetate, 2 oz. bottle 15
Iodine, resub, 1 oz. bottle 38	Soda, bi-carbonate, 1 lb. package. 12
Iodine, tincture, 1 oz. bottle 20	Soda, carbonate (Sal.), 1 lb. pack-
Iron, protosulphate, 1 lb. pack-	age, granular
Iron protoculphate vill bottle	Soda, carb. (Sal.), crystals, 1 lb.
Iron, protosulphate, 1 lb. bottle 20	bottle 20
Lead, nitrate, 1 oz. bottle 15	Soda, citrate, 1 oz. bottle 18
Lead, acetate, 1 oz. bottle 25	Soda, hyposulphate, per lb 5
Lime, chloride, ¼ oz. bottle 12	Soda, phosphate, ½ lb. bottle 30
Lime, chloride, in bottles, per lb 25	Soda, sulphite, granular, ½ lb.
Metol, Hauff, per 1 oz. bottle 70	bottle 30
Metol, Hauff, per 1/4 lb. bottle 2 60	Soda, sulphite, crystals, 1 lb, bot-
Metol, Hauff, per ½ lb. bottle 5 00	tle 25
Mercury, bi-chloride, 1 oz. bottle_ 15	Soda, tungstate, 1 oz. bottle 15

DEVELOPING AND PRINTING OUTFITS

To the price of the complete camera purchased add the price of a developing and printing outfit of corresponding size, and you will be supplied with everything necessary for making pictures. Of course for completeness and convenience many additions can be made, and these will be found listed on other pages of this book.

Complete Developing and Printing Outfits for "Cartridge System" Cameras consisting

of the following.		
3 Developing Trays.	1 Pound Hypo-Soda.	2 Dozen Aristotype Paper
I Film Cartridge.	r Ruby Lantern.	25 Card Mounts.
I Graduate Glass.	I Printing Frame.	I Jar Mounter.
1 Bottle Developer.	I Bottle Combined Toning and Fixing Solution.	I Paste Brush.
Arranged for Pocket Kod	ak	
	eye	
" 3½x3½ Ha	wkeye, Jr., or Bull's Eye	3 45
" 4x5		3 80
Developing and Pri	inting Outfits arranged for use v	vith cameras other than those

of the "Cartridge System."

For producing the negative, and printing, toning and finishing the picture, consists of the following:

I Copy Amateur Photo-

I Ruby Lantern.

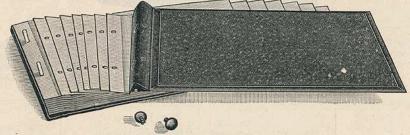
3 Fine Developing Trays.

I Dozen Dry Plates.

1 4-Ounce Graduate Glass.	grapher.	25 Good Card Mounts.
1 16-Ounce package Con-	I Rubber Focussing C	loth. 1 Jar Photo Mounter.
	I Printing Frame.	ı Bristle Brush.
I Pound Hypo-Soda.	2 Dozen Anstotype Pa	
Arranged for 31/4 x43/4 and Q	uad 5 x7 S	ize\$5 00
Size	\$3 95 5 x8	" 5 20
4 x5 Size	4 20 6½ x8½	" 5 80
4½ x6½ "	4 55 8 x10	" 7 10

Morehouse Photograph Album

For Mounted or Unmounted Photographs. It has an adjustable extension, thus allowing from twenty to forty pages to be put in without injuring the appearance of the book. It opens perfectly flat, allowing the leaves to fall evenly when opened at any page, and is so constructed that one or more leaves can be taken out without disturbing the balance. Made in the most desirable bindings. The illustration represents the album for mounting unmounted prints as it appears detached.



For Mounted Potographs. These books are furnished with twenty-five gummed stubs, to which the already mounted photograph can be attached.

Size	STYLE A Full Cloth	STYLE B Seal Back and Corners	STYLE C Full Seal Grain Heavy Bevel Corners	Per Package of Twenty- Five
6x 7 Inches	\$1 00	\$1 70	\$1 8o	\$0 40
7x10 "	I 12	1 80	2 45 2 85	50 60
IOX12 "	1 50	2 25		60
11x14 "	1 80	2 45	3 80	70

For Unmounted Photographs (see cut). Each cut is furnished with twenty-five No. I mounts, with perforated stubs attached, rendering it necessary only to mount and finish photograph before putting it into book.

	Size	STYLE D Full Cloth Handsomely Embossed	STYLE E Half Leather and Half Cloth Embossed	STYLE F Seal Grain Back and Corners Handsomely Embossed and Rolled in Gold Leaf	STYLE G Full Seal, Grain Leather Heavy Beveled Corners Embossed	EXTRA LEAVES White or Grey State Which is Wanted Per Dozen
6x 7	Inches	\$1 12	\$1 35	\$1 80	\$2 00	\$0 30
7XIO		I 35	I 55	2 00	2 50	40
8x10	**	Y	2 00	2 50	2 95	45
IOXI2	"	2 00	2 50	3 15	4 30	70
IIXI4	** ***	2 25	2 95	3 85	5 00	90
14x17	"	3 15	3 60	4 50	6 30	1 35

The Apex Album

This is new and novel, and surpasses all others in neatness and simplicity. Its beautifully finished appearance at once recommends it for the library or drawing-room table. See engraving below, which is an exact representation of the album as it appears closed.



The locking devices used in this book are so constructed as to permit one or more leaves to be taken from or added to, at the same time being entirely on the inside cover out of sight. The regular capacity of each album is twenty-five leaves, and will extend to accommodate from six to eight additional mounts. The material used is all selected stock, and styles are neat and attractive.

	Size	STYLE W Leather Back Cloth Sides	STYLE X Leather Back and Corners Rolled and Finished	STYLE Y Morocco, Grain Back and Corners, Hand- somely Embossed and Rolled in Gold Leaf	STYLE Z Full Morocco Grain Leather Heavy Bevel Cover Embossed	EXTRA LEAVES White or Grey State Which is Wanted Per Dozen	
6x 7	Inches	\$1 13	\$1 35	\$1 80	\$2 00	\$0 30	
7X10		1 35	I 55	2 00	2 50	40	
8x10		1 35 1 80	2 00	2 50	2 95	45	
IOXI2		2 00	2 45	3 15	4 00	70	
11X14	"	2 25	2 90	3 85	5 00	90	
14x17	***	3 15	3 60	4 50	6 30	I 35	

The Apex Squeegee Album

This album is now in great demand among amateurs who are fast adopting the idea of squeegeeing their photographs, thus saving cost of mounts and time of mounting.



The above cut represents a leaf for Album, with openings for 4x5 prints.

The leaves of this album are made with a variety of openings for different size prints. See list of extra leaves for information regarding different size opening possible to obtain. When ordering, BE SURE to state what openings are desired. We will furnish albums with leaves of different openings, in any proportion desired.

Size	STYLE W Leather Back Cloth Sides Plain	STYLE X Leather Back and Corners Roned and Finished	Morocco, Grain Back and Corners Handsomety Em- bossed and Rolled in Gold Leaf	Fuit Morocco Grain Leather Heavy Bevel Covers Embossed	
6x 'Inches	\$1 55 1 80	\$1 80	\$2 25	\$2 50	
7XIO "	I 80	2 00	2 50	2 95	
11X14 ''	3 15	3 60	4 25	2 95 5 85	

Extra Leaves for Squeegee Prints

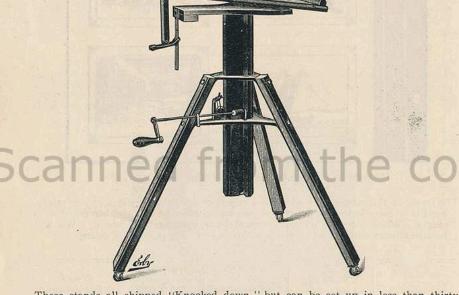
Whi		G.								Per I	Doz.
No.	201	No.	OI	7x10	.20	openings,	31/4×31/4	on each	page	\$0	70
** :	202	11	36 2	7x10	.2		4 ×5	**			70
"	203	**	303	7x10	.I	11	5 x7	13			70
"	204	**	304	IIXI4	.6	44	31/4 x31/4	**		I	35
**	205	1.1	305	11x14	.4	**	4 x5	11		I	35
	206	11	306	11x14	. 2	**	5 ×7			I	35
"	207	11	307	6x 7	.I	er	31/4 x31/4	4.6	"		
**	208		308	6x 7	.I		6 x7	1.1			

In ordering leaves, order by number only.

STUDIO ACCESSORIES

Magic Camera Stand No. o

New! Substantial! Convenient! Cheap! This is the latest production in this line and designed to supply the universal demand for a good, substantial and convenient stand for cameras, 8x10, or smaller, at a very low price. The frame is built of ash wood and iron, all nicely finished. The elevation of the camera is accomplished by a simple, quick and easy method, viz.: By winding a belt on a shaft, and the upright central shaft is held and bound at any height by patent automatic roller stop. The unequaled, semi-automatic ratchet tilting device is used for tilting the top.



The Magic Camera Stand No. 2

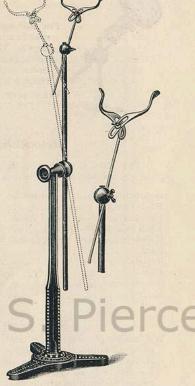


Always one of the most popular on the market, but greatly improved this year. It is supplied with an attachment which enables the operator, when he has his camera properly located, to raise the rear of the stand off its castors, thus rendering it quite impossible for it to be moved. When necessary to move the stand again a slight pressure with the foot on the attachment places the stand again on its castors. The elevating crank and stop lifting device are at the rear of the stand, thus enabling the operator to make any desired adjustment of the camera while his head is under the cloth. It is the lightest, strongest, most rapid, easiest and quickest to adjust of any stand made.

Price No. 2, for IIXI4 and smaller cameras..\$10 75

The Globe Head Rest

This is the latest in this line. Notice the new and handsome design. The new clamp which admits of swinging the upright rod to right or left and clamping it at any angle or any height. Note also the universal ball joint which clamps the cross rod in any conceivable position; also the slotted ear prongs, which are unquestionably the best yet invented. Note also the fact that they are very nicely finished in black and gilt, and the one other supremely important point, viz:



The Globe Eye Rest

A necessity in every studio. The block is easily pushed up or down to any desired position, and it stays just where it is placed. Total height is six feet, constructed wholly of iron except block for pictures.

Price, each......\$1 15



The Magic Head Screen

No operating room can now be considered fully equipped without a head screen, which makes it possible to soften high lights or deepen shadows, subdue light on white draperies, etc. This screen can be adjusted instantly to any height or position. The rods are nickel plated; the joints have new quick-acting cam locks, and the base is ornamented, japan finish. It is the cheapest head screen in the market, yet equal to any in every essential feature.

Price, each......\$4 50

The C. S. Retouching Frame





James' Lens Support

For holding retouching glass. This is the most practical device ever invented for the purpose. Screw base to side of retouching frame. The lens can be adjusted to, and held firmly in any conceivable position by the universal ball clamp used. Made of brass, nickel plate finish Price is for support and does not include a lens.

Price, each\$1	35
----------------	----

Retouching Glasses

The glass is of the very best quality and no more powerful, glass can be obtained in this form.

Retouching Glass, nickel frame, wood handle, 5 inches diameter.
Each (weight I pound)\$3 00
Retouching Glass nickel frame, wood handle, 4 inches diameter.
Each (weight 10 ounces)\$1 75
Determine Class sixted forms and by the state of the stat
Retouching Glass, nickel frame, wood handle, 31/2 inches diameter.
Each\$1 12
Retouching Glass, nickel frame, wood handle, 23/4 inches diameter.
Each\$0 84
Retouching Glass, nickel frame, wood handle, 21/4 inches diameter.
Each\$0.55
Daci



Transparencies.

We make photographic transparencies, size 6½ x8½, of any of the following general subjects to order: Woodland Views, Landscapes, Water Views, Religious Subjects. The quality of work done is the best, and transparencies are backed with fine, ground glass, and mounted in a handsome frame, with rings, to hang in windows. Views of this kind cannot be returned if sent as ordered.

Price, each \$2.50

Transparency Frames.

Handsomely nickeled, and so made that the positive (transparencies) is introduced into the frames by removing one side of same. A plate of ground glass is always used to back the picture. Frames are made to hang either vertically or horizontally. In ordering specify which is wanted.

Size.	Each.	Size.	Each.
4 × 5 ,	50 25	6½ x8½	ź\$0 35
4¼ x6½	30	8 x10	40
5 x 7	30	IIXI4	80
5 x 8	30	14×17	I 10

AMATEUR PHOTOGRAPHY

Is not a passing fad. It is a most fascinating and instructive occupation and HAS COME TO STAY.

Back Grounds

We are constantly receiving so many new designs in back grounds that we find it quite impossible to illustrate even a small number of what we are able to furnish in this line. The illustration below shows one of many designs.



Prospective purchasers should write to us for sample book of back grounds, and should enclose with request \$1.00 to cover cost of book, this amount to be refunded when book is returned. General directions for ordering: 1st—height; 2d—width; 3d—tint desired; 4th—whether the light falls on the right or left of sitter, and whether interior or exterior is wanted, and if exterior, whether landscape or water-

scape is desired, adding any special directions as to painting, shipping, marking, etc. New designs, artistic effects, fine workmanship, prompt service and entire satisfaction in all respects fully guaranteed. Note our prices.

Special sizes, without extension, for 80 square feet or over, 10 cents per square foot; less than eighty square feet, 12 cents per foot.

Note—While we find it impossible to embody in this catalogue quotations of everything in the line of studio apparatus, we are in a position to furnish, and will be pleased to quote, special prices to correspondents upon cameras, electric light apparatus, flash light apparatus, posing chairs, back ground holders, retouching frames, retouching desks, or any other apparatus listed by Anthony, Scovill & Adams, Gennert, or other manufacturers of goods of this kind. Correspondents, when inquiring, should state the particular apparatus upon which they wish quotation, and in whose catalogue same is listed.

The Photographers' Tents.



49220—Weight, without poles, 66 to 176 pounds. Ridge poles, 22 to 25 oz. per foot in length.

			PRICE, COM	PLETE, WITHOUT DARK ROOM			
Size	Pole	WALL	8 oz. Single Fill- ing Duck	10 oz. Single Fill- ing Duck	10 oz. Double Filling Duck		
12x16 feet	II feet	6 feet	\$17 00	\$18 00	\$21 75		
12X2I "	II "	6 "	21 00	24 30	28 65		
12x24 "	II "	6 "	23 40	26 95	31 60		
14x16 "	12 "	6 "	19 35	22 85	27 50		
14x21 ''	12 "	6 "	23 40	26 90	32 50		
14x24 "	12 "	6 "	25 45	29 60	35 10		
14x28 "	12 "	6 "	28 90	33 65	39 80		
16x18 "	13 "	6 "	22 85	26 65	31 85		
16x24 "	13 "	6 11	28 15	32 75	38 90		
16x28 "	13 "	6 "	31 90	37 15	44 20		
16x30 "	13 "	6	34 20	39 80	47 40		

Prices on tents include poles, pins, guys, etc. Tent complete, ready to set up. Dark rooms extra, 6x6 ft., \$7.80; 4½x4½ ft., \$6.50. Our dark rooms are made of same material, same weight and color as the tent—all white. We make the room only, the artist can darken it to suit his own taste. Some use black silesia, some yellow, etc. The above prices include poles, pins, guys, etc., ready to set up tent. Quotation on other sizes on application and at bottom prices. Prices on stable tents, stable tops, Sibley tents, canopy tops without wall, photographers' tents, square hip-roof tents, or any other style, given on application and at bottom prices.

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We carry a full line of the most modern Photographic Text-Books. Any book, either domestic or foreign, may be ordered through us, our extensive connections with publishers guaranteeing prompt service. For other works on these subjects send for our "Scientific, Technical and Medical Book Catalogue," postage, two cents. Our beautiful, illustrated "Catalogue K" of miscellaneous books is mailed free upon receipt of six cents to pay postage. Send for them.

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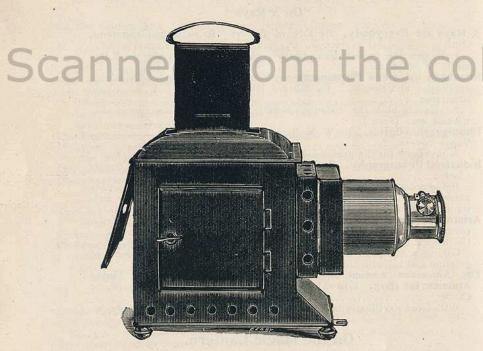
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A book of the lantern, being a practical guide to the working of the magic lantern and containing precise directions for making lantern pictures. Postage, 14c.	

MAGIC LANTERN APPARATUS.

Below we list a few of our specialties in this line of goods, upon which we have built up a reputation of which we are justly proud. We also publish a complete Catalogue of Stereopticons—lanterns, views and accessories, designed for the public exhibitor and lecturer's use, and will be pleased to mail a copy to any one interested in this line.

M. W. & Co's Home Magic Lantern.



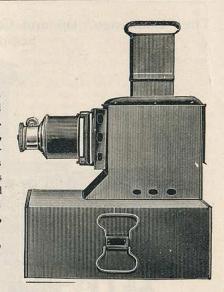
This instrument supplies the demand for a low-priced Lantern for the home circle and for exhibitions in small school-houses and churches. It is fitted with 4-inch condensers, achromatic objective with rack and pinior for adjustment, and in it can be used any of the standard size slides on the market. Body is of Russia iron, japanned, and the lamp is our regular "three-wick." This instrument will project upon the screen well defined pictures 7 or 8 feet in diameter. Packed in iron carrying case.

Price, without views \$15 00

No. 10. The C. A. C. E. Sciopticon.

This is the best low-priced lantern on the market. It is similar in general appearance to the Home Sciopticon. Fitted with a pair of 4-inch condensers, fine achromatic objective and three-wick lamp. The sheet iron jacket is fitted with side and rear doors. Doors are provided with windows of colored glass, so that flame can be examined without injury to the eyes. Weight, in carrying case, 13½ lbs.

Price, complete without views --- \$20 00



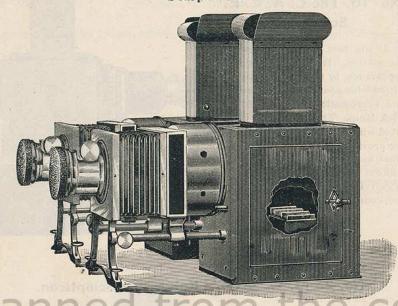
No. 25 M. W. & Co.'s Koh-i-noor Sciopticon.



The latest scientific wonder. In the Koh-i-noor has been produced the acme of perfection in the arrangement of the tri-unial lamp, it having been improved in a manner which makes the flame of each of the three burners 2,5 inches wide, giving a greatly increased white light. The Koh-i-noor is made of the best Russia sheet iron, having an inside solid, and an outside perfo-rated body to avoid heating; is mounted on polished mahog-any base, the exten-

sion front is supported by mahogany uprights which shut off all diffused or reflected light; spring clip for holding carrier with slide. Tri-Unial lamp with each of the three burners, $2\frac{1}{16}$ inches wide; flame regulator, with tinted glass which avoids confusing the eye-sight; fine achromatic objective, with rack and pinion for focussing; a pair of 4-inch plano-convex condensing lenses mounted in brass and adjusted to heat and cold (contraction and expansion). An oxy-hydrogen jet for using gases can be used in this instrument if desired. Used with the lamp it makes a uniform sharp picture, 10 feet in diameter. Packed in neat carrying case, which can be used as a stand for the instrument when in use.

The "Challenge" Oil and Calcium-Light Dissolving View Sciontion.



Consists of a pair of "Challenge" Lanterns placed side by side on a polished mahogany base, with lenses matched for dissolving views, fitted with a universal dissolver. Packed in a wooden carrying case.

Same as above but with four-wick lamp. Packed in wooden carrying case.

Same as above, but fitted with both three-wick lamp and oxy-hydrogen jets, making it adaptable for use with both oil-light and lime-light...

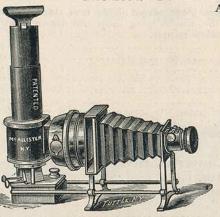
96 00

The "Challenge" Interchangeable Oil and Calcium-Light Lantern.

See cut of Dissolving View Sciopticon for style.

The "Challenge" is one of the best oil and calcium-light lanterns ever offered for parlor, lodge or school-room use. The skeleton frame made of light but strong brass castings, handsomely nickel-plated, permits of a very great reduction in bulk. When not in use, and when packed in its Russia iron carrying case, it weighs but eight pounds. The condensers are 4½ inches in diameter and of finest quality, mounted in heavy, brass cells. It has side door and internal fittings for jets, and can be rapidly converted into a lime-light lantern. With three-wick lamp, giving a clear disc of ten feet in diameter, fine achromatic object glass, packed in Russia iron carrying case. Price, without views______The "Challenge," as described, but with four-wick lamp, giving a clear disc twelve feet in diameter_____ The "Challenge," without lamp but fitted with nickel-plated oxy-hydrogen jet for using lime-light. The jet is the best and is supplied with 44 00 mechanical lime movement_____ The "Challenge," fitted with both three-wick lamp and oxy-hydrogen jet, as described, and suitable for using either lime-light or oil-light, making it the single lantern "par excellence" for exhibitions in schoolhouses, country churches, etc______

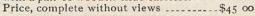
The New York Model Sciopticon.

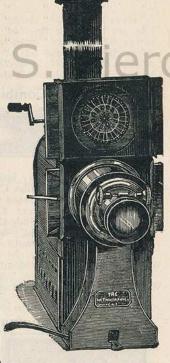


A well-known Lantern of American manufacture, designed to meet the demand for an instrument of compact pattern to pack in a small compass, and consequently to be transportable with less trouble than the more bulky instruments. This lantern meets the above requirements in every particular, and is a neat and handsome apparatus. The condensing lenses are of finest quality, 4% inch diameter. The object glasses are achromatic, enlarging the views to any desired size, from 3 to 10 feet in diameter, and are attached to the bellows front, which is extended when in use, but folds within itself for packing. Fitted with patent Bi-Unial lamp weight, packed in carrying case, 8½ lbs. Price, each \$47 00

M. W. & Co.'s Dissolving Lantern.

The illustration represents the Montgomery Ward & Co.'s Dissolving Lantern, which, being provided with a double changing stage, sliding vertically and worked by a lever, permits of the views being changed instantaneously, producing an effect similar to that obtained with a pair of dissolving lanterns. A further advantage of the double stage is that mounted and unmounted slides may be used in succession, without removing the carrier used for the unmounted views, thus doing away with the unsightly appearance of the white disc of light seen on the screen while making the change in an ordinary single lantern; and as the stage is under complete control by means of the lever, the operator may raise and lower it slowly or quickly at will; the lever being moved from an upright to a horizontal position, as indicated in the illustration. The lantern is made of the best Russia iron, with lacquered brass sliding tube for objective. It is furnished with a powerful four-wick lamp, with the wicks arranged in the form of two wedges, $\Lambda\Lambda$, which produces a very powerful white light, sufficient to illuminate perfectly a twelve foot picture. The chimney is made to telescope, and slides into a space provided for it in the body of the lantern, beneath the lamp. The condenser is four-inch compound plano convex, mounted in brass cell; the objective is double achromatic and of high power, mounted in finely finished brass tube, with rack and pinion adjustment. Packed in a neat box with handle; each lantern furnished with a pair of wooden slide carriers.





The use of the Magic Lantern or Sciopticon may be made profitable as well as pleasurable. No entertainment that can be given affords more hearty enjoyment than those accomplished by the aid of these instruments.

Screens-all First Quality.

All made of the best material, with rope loops, sewed on the four sides, so that frames may be dispensed with, and the muslin hung upon and drawn tightly by ropes attached to the walls or window crames.

Muslin	Screen,	8	feet	square	}	2	75
"	"	10	"	"		4	00
	"	12	66	- 66		6	50
"	44	15	66	ec		9	00
14	44	18	"	46		10	50
46	- 66	21	"	- (6		15	00

You can buy muslin by the yard and make the screen yourself if you prefer. For ordinary purposes a white or light colored wall will do. Always project views from side towards the audience when possible.

Condensers for Magic Lanterns, Bromide Enlargements, Etc.

iano (conve	$x, 3\frac{1}{2}$	nches	diamet	er, each	h		1	75
"	16	4	"	"	**	00000000		2	25
6.	"	41/8	"	66	"	222222		2	50
66	66	41/2	66	- 66	"			2	75
46	66	5	**	66	- 44			4	00
44	44	31/2	- 66	66	pair	mounted	in tin	4	25
66	44	4			""	"	"	5	00
44	44	41/2	66	66	44	66	"	6	00
44	44	5	44	.6	66	"	"	9	00
66	44	31/2	**	"	44	"	in brass	5	50
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"	- "	41/2	"	"	"	- "	u .	8	00
"	66	5	- 66	"	"	a	"	11	00

Combination Slide Carrier.

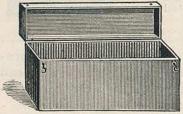


Those using the Unmounted Square Glass Views have been heretofore subjected to much inconvenience for the want of some suitable contrivance to support the views in the proper position in the front of the condensing lenses, and cause them to succeed

each other without any interruption, besides the great risk of breaking the views. The Combination Carrier effectually overcomes all these difficulties, and enables the unmounted views to be used with facility and safety.

Combination Slide Carrier, Each	50 42
The Improved Double Slide Carrier consists of a double carrier, working	O.F.
in grooved frame. While one carrier is "centered," the other one is out	
of the line of light, permitting the placing of another slide, ready to be shown. Each	75
Wooden Carrier, square opening, with spring for holding slides in place.	13
Each	40
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Strongly Each		capacity,	25		\$o	70
Strongly Each		capacity,	50			90
Strongly Each		capacity,	60	slides.		13
Strongly Each	made;	capacity,	100	slides.		60

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Gem Slides (Views).



(From Slide No. 1.)

We desire to call special attention to the Gem Slides. We are makers of these, produce them in large quantities, and owing to their increased use and appreciation are enabled to offer them at 45c., each slide of 3 views, which is but 14½ c. per view. They are specially recommended to the exhibitor with small capital who is using or intends to use an oil-light lantern, giving exhibitions in school-houses, churches, etc., as their small cost puts a complete assortment of attractive views within the reach of all. The gem views enumerated in this list are all choice photographic transparencies. In quality, uniformity of tone and finish, they are equal to the best foreign and American slides now made. Every slide has a protecting glass, insuring it from damage by scratching. Gem slides are suitable for any lantern, from a toy to the most powerful lime-light stereopticon. They are on glass, 8 inches long by 2½ inches wide, the view being 2 inches in diameter. Colored slides have to be made and colored to order, and require from four days to two weeks' time to make.

Gem Slides. Set No. 1. Views From Nature.

14 Slides, 24 Pictures.

Slide No. 1 America: Niagara Falls, Mirror Lake Yosemite, The Pool, White Mountains, N. H. 2 England: House of Parliament. Windsor Castle, Waterloo Bridge.
3 Venice: Grand Canal, Bridge of Sighs, The Rialto. 4 Ireland: Giant's Causeway, Queenstown, Holy Cross Abbey.

Chillon, Falls of Staubach. 6 Constantinople: Palace of the Sultan, Fountain of St. Sophia, Mosque of Mahomet.

Switzerland: Sea of Ice, Castle

8 Jerusalem: Mosque of Omar, Church of the Holy Sepulchre, Damascus Gate.

9 Germany: St. Goar on the Rhine. Castle Ehrenfels, City of Cologne.

10 Russia, Moscow: The Kremlin, The Great Bell, Church of St. Basil.

11 Scotland: Melrose Abbey, Balmoral Castle, Calton Hill, Edinburgh.

12 Rome: St. Peter's Church, exterior; St. Peter's Church, interior;

13 Rome: The Colosseum, exterior; The Colosseum, interior, Dying Gladiator.

View of Rome from St. Peter's.

Plain, per set.______6 30 Colored, each..... 1 00 Colored, per set_______14 00

Gem Slides. Set No. 2. Scripture.

MONTGOMERY WARD & CO., CHICAGO.

Geni Sildes. Set	No. 2. Scripture.
6 Slides, 1	8 Pictures.
Slide No.	Slide No.
 Joseph Sold, Joseph's Bloody Coat, Joseph Meeting His Father. Rebecca at the Well, Eliezer at the 	18 The Annunciation, Wise Men Guided by the Star, Birth of Christ.
House of Bethuel, Arrival of Rebecca.	19 Baptism of Christ, Christ's Entry into Jerusalem, Sermon on the
17 Moses Saved, Moses Assisting the Daughter of Jethro, Destruction of Pharaoh's Host.	Mount, 20 Last Supper, Christ Rejected, The Crucifixion.
Plain, each	\$ o 45
Plain, per set Colored, each Colored, per set	2 70 I 35 8 10
	Drunkard's Progress.
4 Slides, 1	2 Pictures.
Slide No.	Slide No.
21 Domestic Happiness—the greatest of earthly blessings; The Temp- tation, Introduction of Sorrows— a loving heart made sad.	23 The Cold Shoulder by Old Friends; Rumseller's Gratitude—rejection instead of injection; Poverty and Want.
The Rum Hole, a substitute for Home; Rum instead of Reason; Degraded Humanity.	24 Robbery and Murder, the result of Drunkenness; Mania a Potu, the horror of horrors; The Death that Precedes Eternal Death.
Colored, each	\$ 0 45 1 80 1 00
Colored, per set	4 00
Gem Slides, Set N	No. 4. The Bottle.
3 Slides, 9	
Slide No. 25 The Bottle is Brought Out for the	Slide No. 26 Unable to Obtain Employment,
First Time, Discharged for Drunkenness, Execution Sweeps	Cold, Misery and Want, Fearful Quarrels.
Off the Furniture.	27 The Husband Kills His Wife, The Bottle Has Done Its Work, De- lirium Tremens.
Plain, each	\$ o 45
Colored, each	1 35
Colored, per set	3 00
	en Nights in a Bar Room. 2 Pictures.
Slide No.	Slide No.
28 Arrival at the "Sickle and Sheaf," Joe Morgan's little Mary begs him to go home, Slade throws a glass at Joe Morgan and hits Mary.	30 Willie Hammond is induced by Harvey Green to gamble, Harvey Green stabs Willie Hammond to death, Quarrel between Slade and his son Frank.
29 Joe Morgan suffering the horrors of delirium tremens, Death of	31 Frank Slade kills his father with a bottle, Meeting of the citi-
Joe Morgan's little Mary, Frank Slade and Tom Wilkins riding off on a spree.	zens in the bar room, The de- parture from the "Sickle and Sheaf."
Plain, each	\$o 45
Plain, per set	
Colored, per set	

dem Sides.	Set No. o.	Statuary—Rogers	uroups, etc.
	o Slide	es. 27 Pictures.	

	9 Slides, 2	7 Fictures.
Slid	e No.	Slide No.
32	Rip Van Winkle at Home. Rip Van Winkle on the Mountains. Rip Van Winkle Returned.	 The Bushwhacker. The Sharpshooter. Wounded Scout. We Boys. Uncle Ned's School.
33	Thorwaldsen's Gems-Spring, Sum-	Country Post Office.
	mer, Autumn.	38 Eve Before the Fall. Bird Family
34	Thorwaldsen's Gems—Winter, Night, Morning.	Monument. Simply to Thy Cross I Cling.
35	Parting Promise. Courtship in Sleepy Hollow. Coming to the Parson.	40 The Serenade. The Courtship. Ariadne and the Tiger.
36	Mail Day. Town Pump. Village Schoolmaster.	Line of the second of the seco
Pla	in, each\$0 45	Colored, each\$1 00
	per set	" per set 9 00

Gem Slides. Set No. 7. Miscellaneous.

6 Slides, 1	8 Pictures.
Slide No. 41 The Ill Fated Ship, The Ship sailing with a fair wind, Height of the storm, The Ship on fire. 42 Fate of the Steamship, Leaving Port, Mid-Ocean—the Wreck. 43 Fort Sumter in peace—Daylight, Fort Sumter in peace—Moonlight, Fort Sumter on fire during the bombardment.	Slide No. 44 Bay of Naples and Mount Vesuvius — Day, Bay of Naples — Night, Bay of Naples—Eruption of Mount Vesuvius. 45 Courtship of the Second Wife: Ghost of the First Appears—and creates the utmost consternation. 46 The First Meeting, Five Minutes Declaration, Five Years After—
Plain, each	Consequences. Colored, each \$1 00 "per set 6 00 Comic. 6 Slides, 18 Pictures. Slide No.
Slide No. 60 Romance, Reality, Injured Innocence.	64 Come Into the Garden, Maud; I Will Not Ask to Press that
61 Bulldozing; Picturesque Africa; Hold on to Suffin', It's Goin' Off Dis Tim'."	Cheek; Take Back the Heart Thou Gavest. 65 'Twere Vain to Tell Thee All I
62 Dey Say I Can't—But I's Gone Done It, Platonic Love. 63 Nip and Tuck; Battle for Doll,	Feel; Darling, I Am Growing Old; 'Twas a Calm, Still Night.
Both Victorious; We Met by Chance. Plain, each	Colored, each

Gem Slides. Set No. 9. United States History, Etc.

5 Slides, 15 Pictures.

66 66	e No. Landing of Columbus, 1492; Mar- riage of Pocahontas, 1613; Land-	Slid 68
67	ing of the Pilgrims, 1620. Penn's Treaty with the Indians, 1682; Battle of Bunker Hill, 1775; Washington Crossing the Delaware, 1776.	69
		70
Pla	ain, each\$0 45	Co

" per set 2 25

ide No.
3 Declaration of Independence, 1776;
Washington at Valley Forge,
1777; Indian Massacre at Wyoming, 1778.
6 Capture of Major Andre, 1780;
Surrender of Cornwallis, 1781;
Commodore Perry at Lake Erie,
1812.

1813.
"Old Abe After the Battle," "Yankee Doodle," Goddess of Liberty. olored, each.....\$1 00

per set, 5 00

Gem Slides, Set No. 10). American Civil War.
	r Pictures.
Slide No. 71 Bombardment of Fort Sumter, Bat- tle of Bull Run, Battle of Wil-	Slide No. 75 Battle of Chickamauga, Battle of Lookout Mountain, Battle of the
son's Creek. 72 Battle of Roanoke Island, Capture of Fort Donelson, Battle of Pittsburg Landing.	Wilderness. 76 Attack on Fort Wagner, Capture of Petersburg, Naval Combat between Monitor and Merrimac.
73 Capture of New Orleans, Battle of Fair Oaks, Battle of Antietam. 74 Attack on Fredericksburg, Siege of	77 Naval Combat between Kearsarge and Alabama, Sherman's March through Georgia, Surrender of
Vicksburg, Battle of Gettysburg.	
Plain, per set Colored, each	3 15
Cambon and South Late of	7 00
Gem Slides, Set No. 1	1. American Scenery.
	33 Views.
Slide No. 78 New York: Central Park, Post	Slide No. 84 Philadelphia: Independence Hall,
Office, Stewart's Store. 79 New York: City Hall, East River	Girard College, Masonic Hall. 85 Harbor of San Francisco: Capitol,
Bridge, Elevated Railroad. 80 New York: Shipping, East River,	Sacramento, Salt Lake City. 86 San Francisco: Palace Hotel,
The Tombs, Trinity Church. 81 Washington: Capitol, White	Chinese Joss House, exterior; Chinese Joss House, interior.
House, War Department. 82 Washington: Smithsonian Insti-	87 Yosemite: Cathedral Rock, Yosemite Falls; Yellowstone: Bee
tute, Patent Office, Treasury	Hive Geyser.
Building. 83 Boston: Faneuil Hall, Bunker Hill Monument, Old South Church.	88 Salt Lake City: Brigham Young's House, Mormon Temple, ex- terior; Mormon Temple, interior.
Plain, eachPlain, per set	\$ 0 45
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Colored, per set	II 00
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4 Slides,	Pictures.
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Pleasure Before Business. 90 Poor Donkey, Poor Children, That	tions, A Pleasure Party.
Husband of Mine.	\$0 45
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	No. 13. Anatomy.
	2 Pictures.
Slide No. 92 Human Skeleton. Anatomy of the	Slide No. 94 Heart and Lungs. Stomach, Liver
Ear Diagram of the Eye. 93 Muscles — Front View. Muscles —	and Pancreas. Digestive Organ in Place.
Back View. Muscles of the Head, Neck and Face.	95 Nerves — General View. Nerves — Fifth Pair. Nerves—Facial.
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97 Leg of Blow Fly, Eye of House Fly, Proboscis of House Fly.	99 Saws of Saw Fly, Foot of Spider, Sting of Bee.
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" per set 1 80	" per set 4 00

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2 Slides, 6 Pictures.

Slide No.	Slide No.
100 Rip Van Winkle Playing with	101 Rip Van Winkle on the Moun-
the Children, Rip Van Winkle	tains, Rip Van Winkle Returns
at the Village Inn. His Scold-	after a Nap of Twenty Years
ing Wife.	Relating the Story.
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" per set 90	" per set 2 00

Gem Slides. Set No. 16. Drunkard's Daughter.

2 Slides, 6 Pictures.

Slide No. 102 Her mother dying, she is left alone in the world. She en- deavors to support herself by sewing shirts. Payment for her work is refused for alleged im- perfections.	Slide No. 103 Unable to pay rent, she is turned into the street. In a moment of despair she plunges into eternity. Take her up tenderly, lift her with care.
Plain, each\$0 45	Colored, each\$1 00
" per set 90	" per set 2 00

Gem Slides. Set No. 17. Uncle Tom's Cabin.

4 Slides, 12 Pictures.

Slide No.	Slide No.
104 George Harris Takes Leave of His Wife, An Evening in Uncle Tom's Cabin, Escape of Eliza and Child on the Ice.	106 George Harris Resisting the Slave Hunters, Eva and Topsy, Eva Reading to Uncle Tom. 107 Eva's Dying Farewell, Legree's
105 Uncle Tom Sold and Leaving His Family, Eva St. Clair Makes a Friend of Uncle Tom, Uncle Tom Saves Eva from Drowning.	Cruelty to Uncle Tom, Death of Uncle Tom.
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Gem Slides. Set No. 18. Pilgrim's Progress.

4 Slides, 12 Pictnres.

Slide No.	Slide No.
108 Pilgrim and His Burden, The	110 Christian Armed, The Fight
Shining Light, The Slough of	with Apolyon, Vanity Fair.
Despond.	III The Pilgrims Found Sleeping,
100 Pilgrim at the Gate, Christian	The Pilgrims and the Shep-
and the Three Shining Ones,	herds Passing Through the
Pilgrim and the Lions,	Waters.
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" per set, I 80	· per set 4 00

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6 Slides, 18 Pictures.

Slide No. 112 Creation of Light, Adam and Eve Expelled from Garden of Eden, The Deluge.

76

Saul and the Witch of Endor, David in the Camp of Saul, Daniel in the Lion's Den.

114 Flight Into Egypt, Shadow of the Cross, Return to Nazareth.

115 Christ and the Samaritan Women, Christ Healing the Sick, Christ Healing the Daughter of Jairus.

116 Christ Preaching on the Sea,
Christ Tempted, Sermon on the Mount. 117 Saul on the Way to Damascus, Death on the Pale Horse, Angel Shows Jerusalem to John. Plain, each ______\$0 45 Plain, per set______ 2 70 Colored, each 1 00
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130 Saul and David, David Spares

132 The Judgment of Solomon, Cedars

Prophet Slain by a Lion. 133 Elijah Destroying the Messengers of Ahaziah. Elijah's Ascent in a Chariot of Fire, The Death of

134 Esther Confounding Haman, De-struction of Sennacherib's Host,

Ezekiel Prophesying.

135 The Vision of Ezekiel, Daniel,
The Fiery Furnace.

136 Belshazzar's Feast, Daniel in the

137 Jonah Calling Ninevah to Repentance, Daniel Confounding the

Lion's Den, The Prophet Amos.

Priests of Bel, Helidorous pun-

Saul, The Death of Saul. 131 The Death of Absalom, David

the Ark.

Ruth and Boaz, The Return of

Mourning Over Absalom, Solo-

Destined for the Temple, The

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123 Hagar in the Wilderness, Trial of the Faith of Abraham, The Burial of Sarah.

124 Eliezer and Rebekah, Isaac Bless-ing Jacob, Jacob Tending the Flocks of Laban.

124 Joseph Sold Into Egypt, Joseph Interpreting Pharaon's Dream, Joseph Making Himself Known to his Brethren.

126 Moses in the Bulrushes, The War Against Gideon, Sisera Slain by

127 Deborah's Song of Triumph, Jephtha met by his Daughter, Jeph-tha's Daughter and Her Com-

128 Samson Slaying the Lion, Samson ished in the Temple. and Delilah, Death of Samson.

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138 The Nativity, The Star in the East. The Flight into Egypt.

139 The Massacre of the Innocents, Jesus Questioning the Doctors, Jesus Healing the Sick.

140 Sermon on the Mount, Christ Stilling the Tempest, The Dumb Man Possessed.

141 Christ in the Synagogue, The Disciples Plucking Corn on the Sab-bath, Jesus Walking on the Water.

142 Christ's Entry Into Jerusalem, Jesus and the Tribute Money, The Widow's Mite.

143 Raising the Daughter of Jairus, The Good Samaritan, Arrival of the Samaritan at the Inn.

144 The Prodigal Son, Lazarus and the Rich Man, The Pharisee and the Publican.

145 Jesus and the Woman of Samaria, Jesus and the Woman Taken in Adultery, The Resurrection of

146 The Last Supper, The Agony in the Garden, Prayer of Jesus in the Garden of Olives.

147 The Betrayal, Christ Fainting Under the Cross, The Flagella-

148 The Crucifixion, The Close of the Crucifixion, The Burial of Jesus,

149 The Angel at the Sepulchre, The Journey to Emmaus, The Ascension.

150 Martyrdom of St. Stephen, Saul's Conversion, Deliverance of St. Peter.

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Gem Slides. Set No. 22. New Series Comic Views.



From Slide No. 181. Slide No.

Slide No.

175 Faith; Say, Boss, Who Curls Yer Hair? Gin and Milk.

176 Jump in, Mister, I Want to Try My Dog! Just Saw Your Husband go Into the Y. M. C. A. Rooms, Marm; Gen'ral Washington, Yo Put Yo Shoes On or People'l Tink Youah Irish.

177 Happy Father-what! two! Happy Father-3 o'clock in the morning; Now, Marm, Say When.

178 Massy Sakes! Yar He Goes! Look Out, Dar, Sumfin's Gwine to Drap; "Sumfin Did Drap."

179 Well, Boy, What Are You Going to Do With That Can? Mike Murphy is Admitted to the Best Houses in the City, Pat McCarty is Rising in the World.

180 How Biddy Shtamed the Petaties, How Biddy Scalloped the Oysters (with the scissors), How Biddy Served Potatoes Undressed.

181 Why Gas Bills are High When the Family is Away, Scene in a Street Car, Bliss Disturbed.

182 Chicken on Half Shell, Seems to Me I Smell Burnt Rags, She

Stoops to Conquer.

183 Dawgy! Dawgy! Where Ish Dat
Tamn Tawg? Hans: If You
Marry Me You Can Haf Dem
Music Oll de Times; I Never
Likes to go Shooting With a Man
What's Careless.

184 Where the Devil Did I Eat That Dog? Oh! What a Meeting That Will Be! Come! Come Along,

185 Boss In (Heads), Boss Out (feet); Don't Move! Something's Got to Come This Time, What a little Child Can Do.

186 Trouble in de Church-Pull down your vest! Trouble in de Church -Wipe off your chin! Well I Should Smile.

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Plain. per set	5	40
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There is no better view made than the Gem.

Gem Slides. Set No 23. New Series. Chicago Views.

Made from Original Negatives and Embracing a Fine Collection of Chicago Boulevard and Park Scenes, Large Buildings, Places of Interest, etc.



From Slide No. 258.

Slide No.

250 General View, Lincoln Park; Statue of Gen. Grant, Lincoln Park; Flower Garden, Lincoln Park.

251 The Boat House, Lincoln Park; Statue of Lincoln, Lincoln Park; The Fountain, Lincoln Park.

252 Statue of Schiller, Lincoln Park; Statue of Lenne, Lincoln Park. Statue of De La Salle, Lincoln Park.

253 Watering place for horses, Lincoln Park; Statue of Shakespeare, Lincoln Park; Statue of Ottawa Indians, Lincoln Park.

254 The Peace Signal, Lincoln Park Conservatory, Humboldt Park; Boat House, Humboldt Park.

255 Statue of Von Humboldt, Humboldt Park; Statue of Fritz Reuter, Humboldt Park; Scene in Washington Park.

256 Fountain, Washington Park; Floral Globe, Washington Park; Floral Sun Dial, Washington Park.

257 Victoria Regia, Washington Park; Water Lilies, Washington Park;

Water Lilies, Washington Park;
Pond Lilies, Washington Park;
Pond Lilies, Washington Park;
"Ring Around the Rosy,"
Washington Park; Children
Wading, Washington Park.

259 Children at Play, Washington Park;
Flower Beds, Washington Park;
Dreyel Fountain, Wash'gton P'k.

Drexel Fountain, Wash'gtonP'k.

260 Bridge Across Lagoon, Jackson Park; Bridge to Wooded Isle, Jackson Park; Rustic Pavilion, Jackson Park.

261 General View, Jefferson Park; General View, Union Park; Congregational Church, near Union Park.

262 A Lake Steamer, a Lumber Schooner in Chicago River. Shipping in North Branch (Chicago River).

263 Lift Bridge, Halsted street, open; Lift Bridge, Halsted street, closed; Chicago River and Elevators.

264 Residence of Potter Palmer, the Lake Shore Drive, Astor Street.

265 Residence of Geo. M. Pullman, Residence of H. M. Higinbotham, Michigan Avenue south of 20th street.

266 The Armour Institute, Residence of P. D. Armour, Residence of

P. D. Armour, Jr. 267 Panorama from Auditorium, looking north; Panorama from Auditorium, looking north-west; Panorama from Auditorium, locking south.

268 Field Columbian Museum; Field Columbian Museum, south front-Field Columbian Museum, from Red Bridge.

269 Field Columbian Museum, main entrance; Field Columbian Museum, Statuary at Entrance; Field Columbian Museum Caryatides.

270 South Congregational Church, Drexel Boulevard, Drexel Boulevard Entrance.

271 Chicago Academy of Science, Chicago University Buildings, De La Salle University.

272 Chicago Art Institute; Chicago Art Institute, Bronze Lions; Chicago Art Institute, Interior View.

273 Dearborn Massacre Monument, Grace Episcopal Church, Libby Prison.

274 Grand Boulevard, South Park Avenue (south of 32d street), Aldine Square.

275 Hotels Richelieu and Leland, Montgomery Ward & Co.'s Building, Michigan (north of Congress).

So GEM SLIDES. No. 23—Continued. | Slide No. 276 Church Notre Dame de Chicago | 283 Entrance to La Salle Street Tun-

W. 12th Street (R. C.). Church St. James (Wabash avenue, R.C.) 277 Masonic Temple, Court House and City Hall, Post-office. 278 Chicago & NW. R. R. Depot, Dearborn R. R. Station, Van Buren Street and Rock Island Depot. 279 St. James Episcopal Church, Unity Church, New England Congregational Church. 280 Haymarket Square, Police Monument (Haymarket square), Douglas Monument. 281 North Side Water Works, North Side Water Works Tower, Clark Street and Ashland Block. 282 State Street (north of Harrison), Randolph Street, Lake Street.	Lake Front Park (north from 12th street). 284 Statue of Columbus (lake front), the Auditorium, Great Northern Hotel. 285 The Woman's Temple, the Board of Trade Building, Monadnock Building. 286 Chicago View Hotel, B. & O. R. R. from 12th Street Bridge, Grand Central Depot. 287 Title and Trust Building, Chamber of Commerce Building, Tacoma Building. 288 Workshops, Pullman; Gates and Shops, Pullman; Gates and Shops, Pullman; Main Entrance, Pullman. 289 Park and Churches, Pullman; Water Tower, Pullman.
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Colored, per set	40 00



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Artistically colored, each_____

Slide No.

301 General View of Interior, Russian Section, French Statue of Republic.

302 Swiss Wood Carving, Japanese Bronzes, Japanese Vases.

303 Vase, Belgium Statuary, Italy; Chinese Houses.

ADMINISTRATION BUILDING.

Slide No.

304 View from Manufactures Building, Entrance, Beacon Lights.

305 Group of Statuary, Group of Statuary, Group of Statuary.

HORTICULTURAL HALL.

Slide No. 307 Views from Wooded Island, Main Entrance, Group of Statuary.

308 Group of Statuary, Statuary at Entrance, Statuary at Entrance. 309. Trinidad Lion, Cactus, Spanish

Section.

TRANSPORTATION BUILDING.

310 Full View, Golden Doorway, South End.

311 Details, Pavillion, etc.; Details, Panel, Details, Panel.

312 Group of Statuary, Group of Statu ary, Group of Statuary.

313 North Entrance, Details, Golden Doorway, Group of Statuary.

GEM SLIDES. No. 24-Continued.

WOMAN'S BUILDING.

Slide No. 314 East Front, Entrance, Balcony.

ART GALLERY.

Slide No. 315 Exterior, Full View, South Front. Carvatides.

ELECTRICITY BUILDING.

Slide No. 316 South and East Fronts, Statue of Franklin, North End.

FISHERIES BUILDING.

Slide No. 317 View from Wooded Isle, Central Pavilion, Details.

318 Colonnade, Colonnade Interior, Brazilian Crocodile.

319 State of Washington Exhibit, State of Maine Exhibit, Norwegian Boats.

MINES AND MINING BUILDING. Slide No.

320 English Coal, Wyoming Iron Ore, Pennsylvania Coal Car.

AGRICULTURAL BUILDING.

Slide No.

321 N. W. Pavilion, California Exhibit, Iowa Exhibit.

322 New Jersey Products, Straw Figures, Michigan Wild Animals, British Guiana.

323 Exterior, Central Dome, Interior

M'MONNIES FOUNTAIN.

Slide No. 324 General View, "Victory" on Prow of Barge, Figures on Barge. 325 Side View, View from Below, View

from Electricity Building.

STATUARY.

Slide No. 327 Statue of the Republic, Statue of Cow Boy, Statue of Indian.

328 Statue of Boy and Horse, Statue of Horse, Statue of "Plenty."

THE PERISTYLE.

Slide No. 329 Central Arch, General View, Interior.

STATE BUILDINGS.

Slide No. 330 Rhode Island, Maine, Idaho.

Gold.

331 Illinois, New York, Massachusetts. 332 California, Exterior; California, Interior; Statue of Discoverer of

MISCELLANEOUS.

Slide No. 337 La Rabida Convent, Windmills, John Bull Train.

338 Caravel Santa Maria, Caravels Nina and Pinta, Statue of Columbus (St. Gaudens).

339 Indian Village, Group of Javanese, East India Building.

341 Electric Mining Machinery, De-Witt Clinton Train, Mexican Mahogany Log.

342 Mining Building, Mamie Café, South Canal,

343 Portico-Machinery Hall, German Section-Manufactures Building, Whaling Back "Progress."

344 Avenue of State Buildings from Fifty-seventh street, Belgian Vase - Manufactures Building., Ceylon Building.

345 French Government Building, French Locomotive, Thorwaldson Memorial.

346 Festival Hall, Hunters' Cabin, View East from Government Building.

347 Grand Basin and Manufactures Building, Obelisk-South Canal, Nova Scotia Government Exhibits.

348 Penobscot Indian Tent, Mountain Sled, Michigan Wooden Ware

Statue of Columbus - Machinery Hall, Japanese Houden, Interior Indian Building.

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Set No. 1240. United States History

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 Battle of Buena Vista, 1847. Scott Entering Mexico, 1848. Bombardment of Fort Sumter, 1861. Battle of Bull Run, 1861. Capture of Fort Donaldson, 1862. Naval Combat, Monitor and Merrimac, 1862. Reading Emancipation Proclamation 1862. 	11 12 13 14 13	Battle of Gettysburg, 1863. Battle of Lookout Mountain, 1863. Siege of Petersburg, 1864. Kearsage and Alabama, 1864. Farragut at Mobile Bay, 1864. Sherman's March Through Georgia, 1864. Surrender of Lee, 1865. Assassination of Lincoln, 1865. Assassination of Garfield, 1881.
8 Battle of Antietam, 1862.	18	Assassination of Garfield, 1881.
9 Siege of Vicksburg, 1863.		
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1 Childhood. 2 Youth.	3 Manhood. 4 Old Age.	
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Set No. 1300. Ui	ncle Tom's Cabin
Slide No.	Slide No.
I George Harris taking leave of his wife.	6 Uncle Tom saves Eva from drowning. 7 George Harris Resisting the Slave
 2 An Evening in Uncle Tom's Cabin. 3 Escape of Eliza and Child on the ice. 	Hunters. 8 Eva and Topsy.
4 Uncle Tom sold, and leaving his family.	9 Eva Reading to Uncle Tom. 10 Eva's Dying Farewell.
5 Eva St. Clair makes a friend of Uncle Tom.	II Legree's Cruelty to Uncle Tom.
	12 Death of Uncle Tom.
12 Slides, colored, with Lecture	\$ 4 50 12 00
Set No. 1310, 0	iambler's Career.
Slide No.	Slide No.
. I The first seed of the passion planted	4 He is detected and roughly handled
in the young mind. The development of the passion with	by his friends. 5 Having finally lost his all, he leaves
higher stakes. 3 Finding himself always the loser, he	the gaming-house in despair and madness.
resorts to false play.	6 He ends his life in a mad-house, still occupied with his ruling passion.
6 Slides, plain, with Lecture	\$2 25
	A CONTRACT NO. AND ADDRESS.
Set No. 1320. Ten Ni	ights in a Bar Room.
Slide No.	Slide No.
I The arrival at the "Sickle and Sheaf."	7 Willie Hammond is induced by Harvey Green to Gamble.
2 Joe Morgan's Little Mary begs him to come home.	8 Harvey Green stabs Willie Ham- mond to Death.
3 Slade throws a glass at Joe Morgan and hits Mary.	9 Quarrel between Slade and his son Frank.
4 Joe Morgan suffering the horrors of Delirium tremens.	10 Frank Slade kills his father with a bottle.
5 Death of Joe Morgan's little Mary.6 Frank Slade and Tom Wilkins rid-	II Meeting of the Citizens in the bar room.
ing off on a spree.	The departure from the "Sickle and Sheaf."
12 Slides, plain, with Lecture	\$ 4.50
12 Slides, colored, with Lecture	12 00
Set No. 1330. The D	Prunkard's Progress.
Slide No.	Slide No.
I Domestic Happiness - The Greatest	7 The cold shoulder by old Friends.
of Earthly Blessings. The Temptation—"Lead me not into	8 Rumseller's Gratitude—Rejection in- stead of Injection.
Temptation."	9 Poverty and Want.
3 Introduction of Sorrow—A loving heart made sad.	10 Robbery and Murder—The Result of Drunkenness.
4 The Rum Hole—A substitute for Home.	It Mania-a-potu—The Horror of Horrors.
5 Rum instead of Reason. 6 Degraded Humanity.	12 The Death that Precedes Eternal Death.
12 Slides, plain, with Lecture	\$ 4 50

Set No. 1340. The D	runkard's Daughter.
Slide No.	Slide No.
Her mother dying, she is left alone in the world.	4 Unable to pay the rent she is turned into the street.
2 She endeavors to support herself by sewing shirts.	5 In a moment of despair, she plnnges into eternity.
3 Payment of her work is refused for alleged imperfections.	6 "Take her up tenderly, lift her with care."
6 Slides, plain, with Lecture	
Set No. 1350.	The Bottle.
Slide No.	Slide No.
I The bottle is brought out for the first time.	5 Cold, misery and want destroy their youngest child.
2 He is discharged from employment for drunkenness.	6 Fearful quarrels are the consequences of frequent use of bottle.
3 An execution sweeps off the greater part of their furniture.	7 The husband in a fit of drunkenness kills his wife.
4 They are driven by poverty into the street to beg.	8 The bottle has destroyed infant and mother, brought son and daughter to vice, and left the father a maniac.
	\$3 00 8 00
Set No. 1360. Father, D	ear Father, Come Home.
Slide No.	Slide No.
I Father, dear father, come home with me now,	4 The night has grown colder and Benny is worse,
The clock in the steeple strikes one, With poor brother Benny so sick in her arms,	But he has been calling for you. 5 Father, dear father, come home with me now,
And no one to help her but me. 3 Father, dear father, come home with	The clock in the steeple strikes three. 6 Yes, we are alone, poor Benny is dead,
me now, The clock in the steeple strikes two.	And gone with the angels of light.
	\$2 25 6 00
Set No. 1370. The	Drunkard's Reform.
Slide No.	Slide No.
He squanders his hard earned money in drink.	4 He informs his wife of his resolve. 5 His sobriety raises him to the position
2 His child's clothes are ridiculed; his pride is touched.	of foreman. 6 The happy home of the reformed man.
3 He forms a resolution and leaves the tavern.	
6 Slides, plain, with Lecture	
which the possibility of reform, even with evident. A descriptive reading accompani	wanted—namely, a series of illustrations in those who have sunk to the depths, is made es the set, which forms a pleasantly written ittention of all interested in the progress of

Set No. 1850	. Bible History.
Slide No.	Slide No.
1 Adam and Eve in Paradise. 2 The Sacrifice of Noah. 3 Rebecca at the Well. 4 Eleazer in the House of Bathuel. 5 Arrival of Rebecca. 6 Jacob's Dream. 7 Jacob waters the flocks of Rachel. 8 Joseph sold by his brothers. 9 Joseph's bloody coat brought to Jacob Joseph meets his father in Goshen. 11 Moses saved by Pharaoh's daughters Moses assisting the daughters of Jethro 24 Slides, with lecture.	13 Pharaoh's host drowned in Red sea. 14 Jephthah's daughter meeting her father 15 Samson betrayed by Delilah. 16 David returns conqueror of Goliah. 17 David in camp of Saul. 18 Saul and the Witch of Endor. 19 The Judgment of King Solomon. 20 Solomon's reception of Queen of Sheba. 21 Espousal of Esther by Ahasuerus. 22 Esther implores Ahasuerus. 23 The Feast of Belshazzar.
	From the Life of Jesus.
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I "Come unto me."	15 Anointing the Lord's feet.
2 The Annunciation.	16 Mary and Martha.
3 Birth of Jesus.	17 The Holy supper.
4 The Wise men.	18 Gethsemane.
5 Flight into Egypt.	19 Before Pilate.
6 Childhood of Jesus.	20 On the Way to Golgotha.
7 With the Doctors.	21 The Cross.
8 With the Woman of Samaria.	22 The burial.
9 Healing the Sick. 10 Raising the Widow's Son.	23 At the Sepulchre.
II Blessing little children.	24 The Resurrection. 25 At Emmaus.
12 Raising Jarius' daughter.	26 Ascension.
O John Strangerson	ac accompion.

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7 With the Doctors.	21 The Cross.
8 With the Woman of Samaria.	22 The burial.
9 Healing the Sick.	23 At the Sepulchre.
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14 "Sin no more."	28 "Where two or three."
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	ie of Our Saviour.
Slide No.	Slide No.
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2 The Angel appearing to the Shep-	25 Christ blessing little children.
herds.	26 Mary Magdalen washing Jesus' feet.
3 The Babe of Bethlehem.	27 Christ and the rich young man.
4 The Magi guided by the star.	28 The Parable of the Lillies.
5 The Adoration of Magi. 6 The Presentation in the Temple.	29 Christ the outcast of the People.
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7 The Flight into Egypt.	31 The Poor Widow's two Mites.
8 The shadow of the Cross.	32 Christ, the Good Shepherd.
9 The Return of Nazareth.	33 Christ weeping over Jerusalem.
10 Jesus disputing with the Doctors.	34 The Last Supper.
11 St. John preaching in the Wilderness.	35 The Agony in the Garden.
12 The Baptlsm of Christ.	36 Christ Rejected.
13 Christ tempted by the Devil.	37 Christ bearing the Cross.
14 Christ and the samaritan.	38 Christ arriving at Mt. Calvary.
15 Christ preaching on the sea of Galilee.	39 The Crucifixion.
16 The sermon on the Mount.	40 Golgotha, "It is finished."
17 Christ healing the sick.	41 The Descent from the Cross.
18 Christ raising the daughter of Jarius.	42 The Body of Christ laid in Tomb.
19 Christ walking on the Waters.	43 First Easter Dawn.
20 The Miracle of the Loaves and	44 The Resurrection of Christ.
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21 The Transfiguration.	46 Easter Morning.
22 Parable of Prodigal son—Carousal.	47 The Journey to Emmaus.
23 Parable of Prodigal son—Swineherd.	48 The Ascension of Christ.
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