

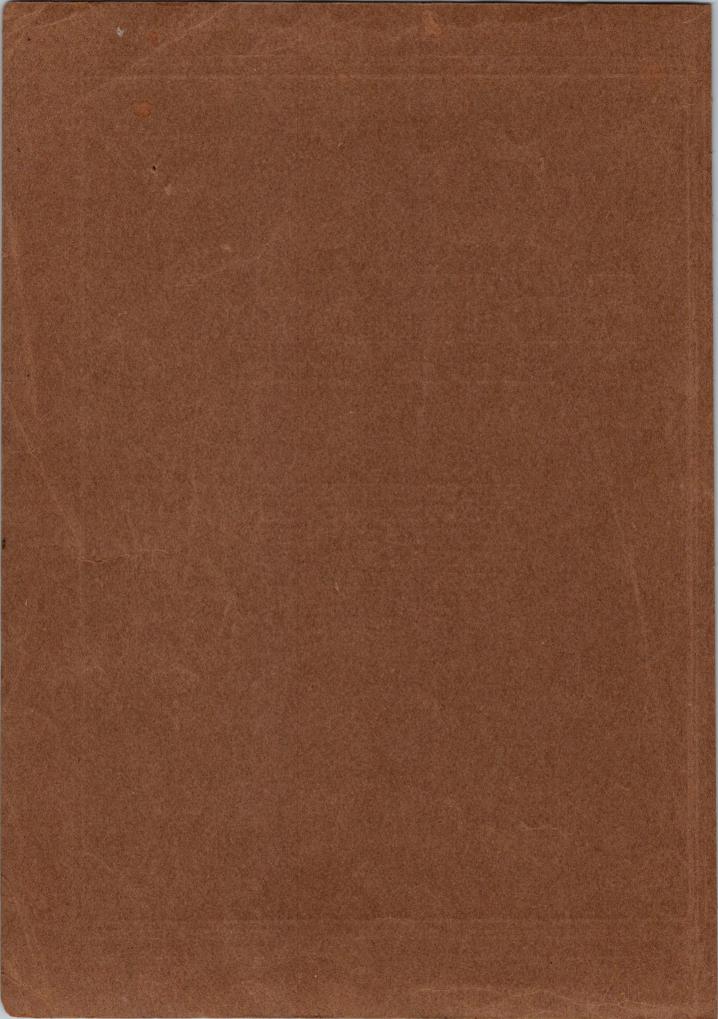


FREDJ.FELDMANCO.

PHOTO SUPPLIES
SPORTING GOODS
ARCHITECTS SUPPLIES
ENGINEERS SUPPLIES
ARTIST MATERIALS
PICTURE FRAMING
EDISON DISC PHONOGRAPHS







To Our Friends and Patrons

NO LIST OF PHOTOGRAPHIC SUPPLIES CAN ENUMERATE ALL THE ITEMS IN THE MARKET

New inventions are being constantly introduced and new ideas put into practical shape.

The photographic field is widening from year to year. We are expanding with it, and with a continuance of your patronage, which we shall earnestly endeavor to merit, we hope to continue until we cover the entire photographic field.

We have added to our line in the past few years a complete stock of supplies for the Artist, Draftsman and Engineer, as well as many desirable articles which no photographer can well afford to be without.

This catalogue is a condensed list of the most staple goods, and represents list price at time of publication and subject to market changes without notice.

The following catalogues will also be furnished on application: Eastman Professional, Graflex, Hawkeye, Kodak, Premo, Bausch & Lomb, Goerz, Voigtlander, Dallmeyer, Cooke, Crown, Wollensak; Taprell, Loomis & Co., Collins, Keuffel & Esser Co., Electric Flashlights, Nesbit High Speed Flashlight Apparatus, American Thermos Bottle Co., Edison Disc Phonographs.

We are glad that we have been able to please our customers, and also to attract others, thereby constantly increasing and strengthening our business.

Thanking you cordially for your invaluable share in our growth, and trusting that no mishap will ever sunder our friendly relations with you, we remain,

Yours very truly,

FRED J. FELDMAN CO., EL PASO, TEXAS.

OUR TERMS

TERMS CASH

C. O. D. orders must be accompanied by sufficient cash to guarantee express charges. C. O. D. freight shipments with bill of lading and sight draft attached, in care of bank or express agent, must be accompanied with one-quarter of the amount of order to assure shipment.

No charge for boxing or cartage.

We pack with the utmost care, but cannot be responsible for breakage in transportation.

We will not be responsible for goods sent by mail; remittance including postage must be sent with order.

FLASHLIGHT COMPOUNDS AND POWDERS, LIQUIDS, GUN COTTON AND COLLODION ARE UNMAILABLE. They can only be sent by express or freight.

REMIT BY POSTOFFICE MONEY ORDER, Express Money Order, Bank Draft, Cash or Stamps. Stamps should be folded in waxed paper, as we receive many orders with stamps stuck together in the letter and worthless.

SPECIAL INSTRUCTIONS

THIS IS OUR GENERAL CATALOGUE, containing a description and illustration of about every item used by photographers engaged in any branch of the profession. Order blanks we will cheerfully supply upon request. This Catalogue is compiled for the benefit and help of buyers of photographic materials, and fairly describes our enormous stock.

It makes no difference whether your purchases are large or small, the same individual, careful and courteous attention is given each order.

ALL PRICES ARE SUBJECT TO THE FLUCTUATION OF THE MARKET. At the date of publication the prices are correct.

THE ILLUSTRATIONS AND DESCRIPTIONS IN THIS CATALOGUE can be depended upon for accuracy. We are very careful in this respect and aim to word our descriptions in a clear and lucid manner. Knowing that this is the case, you can make your selections as well from the catalogue as though you saw the article itself. We have made the descriptions clear and easily understood to avoid unnecessary correspondence.

SUMMING UP THE MANY ADVANTAGES, Completeness of Stock, Reliability of Catalogue Descriptions and Prices, Convenience of Location, Individuality of Attention, Transportation Facilities, coupled with the certainty of receiving only fresh, reliable goods, guaranteed on account of the rapidity with which our stock is moved, there is every argument in favor of addressing your orders to us.

FPLEASE DO NOT CUT OR MUTILATE THIS BOOK.

IT IS NOT NECESSARY TO DO MORE than give the name and number of any article you order for us to understand perfectly what is wanted.

BE VERY CAREFUL TO STATE the size, speed and brand of plates, size and kind of paper, the number, name and size of card stock, etc. Carefulness in these matters will save tedious delays and unnecessary correspondence.

WE SUPPLY REGULARLY PRINTED ORDER BLANKS and addressed envelopes for use by our customers in making orders, and supply them free of cost. Keep your supply up, and drop us a postal card when in need of more.

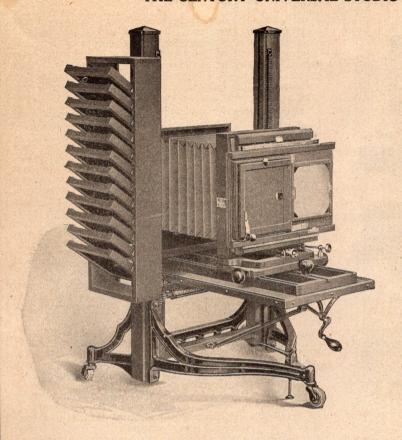
WRITE YOUR ORDER ONLY ON THE GRDER BLANK, and any remarks you may desire to make on a separate sheet, and write only on one side of the paper. Give your postoffice, county and state, and your shipping point if different from the postoffice. Be sure your name and address is written plainly and in full, and, as far as practical, give shipping instructions, name of express or railroad company.

Our system of filling orders and handling correspondence is calculated to consume as little time as possible, and in all cases GOODS WILL BE SENT THE SAME DAY THE ORDER IS RECEIVED, unless delayed by printing or odd or outside goods.

Respectfully,

FRED J. FELDMAN CO.

THE CENTURY UNIVERSAL STUDIO OUTFIT.



In designing and constructing the Century Universal Studio Outfit, has been produced an equipment that embodies the highest degree of efficiency with an elegance of design and a richness of finish, that adds much to the attractiveness of the studio. This year's outfit has been improved by adding many new mechanical devices which now makes it the most perfect and easy working studio outfit on the market. on the market.

The Camera is made of the finest selected mahogany and cherry, highly polished, the metal parts being brass lacquered. It is provided with vertical and horizontal swings operated by a new pivot rack and pinion movement. The focusing device, which is the most important part of a camera, has been improved; it is now fitted with a new rack and pinion, which can be worked from either side of the camera. It is provided with a large draw knob which locks or unlocks the camera from bed with a half turn. The bottom of the sliding part of the camera is fitted with V shaped wheels which run on the track of bed, making the forward and backward movement easy.

These new devices greatly facilitate the ease and accuracy in the working parts of the camera. The camera is fitted with a ground glass focusing screen which can be swung around to the side of the camera so that the holder or automatic attachment can be put on:

AUTOMATIC ATTACHMENT.

AUTOMATIC ATTACHMENT.

The Century Automatic Attachment unquestionably merits tinct and unqualified success. The attachment has since then been considerably improved.

The Cabinet Attachment consists of a frame to which is adjusted a sliding carriage of sufficient length to accommodate a reversible curtain slide holder at one end and the ground glass screen at the other. After focusing the carriage is moved from left to right by simply pushing a knob at the bottom, and the focusing screen is thus replaced by the plate holder, at the same time, the curtain slide of the plate holder is withdrawn automatically.

The one movement shifts the ground glass, places the holder in exact position for exposure and draws the slide. Reverse the movement and the curtain slide is inserted and the ground glass screen replaced in its proper position, back of the lens.

By simply pressing a spring at the top the carriage can be added.

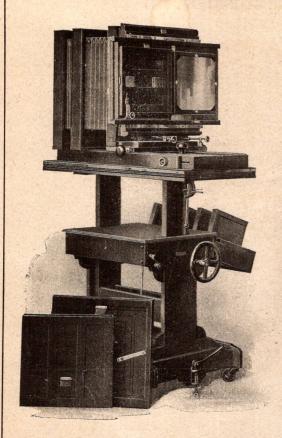
By simply pressing a spring at the top the carriage can be adjusted for making two pictures on a

The Attachment is supplied to take 4½x6½, 4¾x6½ or 5x7 holders for either the 8x10 or 11x14 Camera. A new attachment which can be used only on the 11x14 Camera and which will take 8x10 plates is now for the first time announced. It is reversible and with it two exposures on an 8x10 plate may be made. This same holder can also be adapted for 6½x8½ plates. If the latter arrangement is desired it should be so specified when ordering.

The stand is raised and lowered by pinions engaging vertical racks attached to uprights, a unique locking device holding the platform in any required position, irrespective of the size or weight of the camera carried. The frame and the uprights are heavily and solidly constructed, to preclude the possibility of vibration. A jack for locking the stand in position on the floor, and noiseless rubber-tired casters are included.

	8x10	11x14
Century Universal Studio Outfit, complete, including Grand Portrait Camera No. 2 with Century Universal Holder, Automatic Cabinet Attachment and one Curtain Holder (5x7, 43x6½ or 44x6½, size optional), Century Semi-Centennial Stand with adjustable rack to carry twelve plate holders.	\$81.00	\$120.50
Century Universal Studio Outfit, complete, including Grand Portrait Camera with Century Universal Holder, Automatic Attachment for 8x10 Holders, and one 8x10 Curtain Holder, Century Semi-Centennial Stand	a November	128.00
When Furnished Separately.		
Grand Studio Camera, only, with Universal Holder	35.00	69.00
Century Semi-Centennial Stand	25.00	27.50
Cabinet Automatic Attachment with one holder (5x7, 4 % x6 ½ or 4 ¼ x6 ½, size optional as above)	19.00	22.00
Extra Curtain Slide Holder for Cabinet Attachment, Hardwood	2.50	2.50
Automatic Attachment for 8x10 holder with one 8x10 Curtain Holder		29.50
Extra 8x10 Curtain Holder, Hardwood		5.50
Extra Century Universal Holder	8.00	16.00
Rack, grooved to carry twelve cabinet holders	2.00	2.00

CENTURY GRAND STUDIO OUTFIT.



In designing and constructing the Century Grand Studio Outfit, has been produced an equipment that embodies the highest degree of efficiency with an elegance of design and a richness of finish, that adds much to the attractiveness of the studio. This year's outfit has been improved by adding many new mechanical devices which makes it the most perfect studio outfit on the market.

The Camera is made of the finest selected mahogany and cherry, highly polished, the metal parts being brass lacquered. It is provided with vertical and horizontal swings operated by a new pivot rack and pinion movement. The focusing device, which is the most important part of a camera, has been improved; it is now fitted with a new rack and pinion, which can be worked from either side of the camera. It is provided with a large draw knob which locks or unlocks the Camera from bed with a half turn. The bottom of the sliding part of the camera is fitted with V shaped wheels which run on the track of bed, making the forward and backward movement easy.

These new devices greatly facilitate the ease and accuracy in the working parts of the camera.

The camera is fitted with a ground glass focusing screen which can be swung around to the side of the camera so that the holder or automatic attachment can be put on.

Automatic Attachment.

The Century Automatic Attachment unquestionably merits all of the high praise that has been sounded about it. The original Attachment was indeed a most distinct and unqualified success. The attachment has since then been considerably improved.

The Cabinet Attachment consists of a frame to which

The Cabinet Attachment consists of a frame to which is adjusted a sliding carriage of sufficient length to accommodate a reversible curtain slide holder at one end and the ground glass screen at the other. After

focusing the carriage is moved from left to right by simply pushing a knob at the bottom, and the focusing screen is thus replaced by the plate holder, at the same time, the curtain slide of the plate holder is withdrawn automatically.

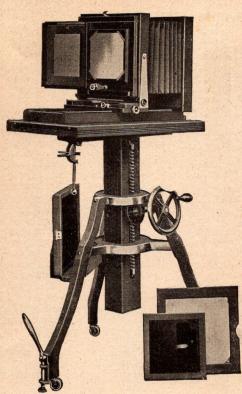
The one movement shifts the ground glass, places the holder in exact position for exposure and draws the slide. Reverse the movement and the curtain slide is inserted and the ground glass screen replaced in its proper position, back of the lens.

By simply pressing a spring at the top the carriage can be adjusted for making two pictures on a plate.

The Attachment is supplied to take $4\frac{1}{4}\times6\frac{1}{2}$, $4\frac{3}{4}\times6\frac{1}{2}$ or 5×7 holders for either the 8×10 or 11×14 Camera. A new Attachment which can be used only on the 11×14 Camera and which will take 8×10 plates is now for the first time announced. It is reversible and with it two exposures on an 8×10 plate may be made. This same holder can also be adapted for $6\frac{1}{2}\times8\frac{1}{2}$ plates. If the latter arrangement is desired it should be so specified when ordering.

The Century No. 2 Stand is made of mahogany, insuring solidity and strength without adding to the weight, and also enhancing greatly the general appearance of the stand, and in fact setting off the entire outfit so that every part is in perfect keeping with every other part.

Century Grand Studio Outfit, complete, including Grand Portrait Camera No. 2 with Universal Holder, Automatic Cabinet Attachment, and one Curtain Holder (5x7, 43/x6½ or 4½x6½, size optional), No. 2 Special Stand with adjustable rack to carry ten plate	8x10	11x14
holders	83.50	\$122.00
No. 2 Camera Stand		129.50
When Furnished Separately.		
	25 00	69.00
Grand Studio Camera No. 2, only with Universal Holder.		Charles and Control of the Control
Century Studio Stand No. 2	27.50	29.00
Cabinet Automatic Attachment with one holder (5x7, 4\%x6\%2 or 4\%x6\%2, size optional as		Real Property
above,)	19.00	22.00
Extra Curtain Slide Holder for Cabinet Attachment, Hardwood		2.50
Automatic Attachment for 8x10 Holder with one \$x10 Curtain Holder		29.50
Extra 8x10 Curtain Holder, Hardwood.		5.50
Extra Century Universal Holder	8.00	16.00
Davis Century Universal Houser.	A STATE OF THE PARTY OF THE PAR	A CONTRACTOR OF THE PARTY OF TH
Rack, grooved to carry ten cabinet holders	2.00	2.00



THE CENTURY STUDIO OUTFIT NO. 4.

The Century Studio Outfit No. 4 finds an intermediate place between the No. 3 and the No. 1 Outfits and will certainly meet favor by reason of its numerous points of excellence.

The Camera, the No. 4 Century, is of a rather compact type of construction and will therefore probably commend itself to many Photographers. It is made of mahogany and cherry, put together in the best possible manner with a finish of both wood and metal work equal almost to the very highest price portrait cameras. Vertical and horizontal swings are provided, also the new rack and pinion focusing device which is an exclusive Century idea. The 8x10 Holder corresponds in finish with the Camera and is fitted for either 8x10 or 5x7 plates.

The No. 4 Century Studio Camera is also provided with a

CABINET ATTACHMENT.

This attachment is not automatic but is constructed to take the regular 5x7 Century Curtain Slide Holder such as is supplied with the Automatic Attachment. The Attachment has a ground glass at one end which after focusing may be removed and the Holder placed in position to make the exposure. The Holder may be used either vertically or horizontally and will also allow of making two exposures on a 5x7 plate.

The Attachment is made of mahogany highly polished and is fitted with the regular Century Curtain Holder, likewise polished to correspond.

CAMERA STAND.

The No. 4 Century Stand forms a part of the Outfit. This Stand is a most substantial piece of apparatus, bearing evidence of most painstaking workmanship in every particular. No part has been slighted. It is raised and lowered by a hand-wheel, operating a rack and pinion and is locked automatically in position. The movement is quick and easy.

The Stand rests upon three rubber tired casters and is fitted with a jack, which, by a movement of the foot, renders it impossible to move the outfit when the exposure is about to be made.

The Stand is made of hardwood, mahogany stained and all metal parts are oxydized. The top is supplied with the Century Automatic Tilting Device and is covered with felt. A Plate-Holder Rack is attached in a convenient position.

PRICE.	10
Century Studio Outfit No. 4, including Portrait Camera No. 4 with Curtain Holder, Cabinet Attachment and Cabinet Curtain Holder, No. 4 Century Stand and Holder Rack	00
Century Studio Camera No. 4, with Curtain Holder	nn
Century Studio Camera No. 4, with Curtain Holder	00
Century Cabinet Attachment No. 4	50
Extra No. 4 Century Studio Holder, manogany finish	00

CENTURY NO. 5 STUDIO OUTFIT.

For the photographer who conducts a branch studio at the beach or summer resort, where the work is confined to small prints and post cards, the Century Outfit No. 5 is unquestionably the most complete and serviceable equipment or its kind that has ever been produced. The Outfit consists of camera with sliding back, lens, stand and double plate holder.

Space is a valuable consideration in such galleries, and the outfit by its very simplicity will handle the crowd with great rapidity and accuracy. The outfit is neatly finished in hard

Camera.—A 5x7 portrait camera, having 14 in. bellows, swing back, sliding plate holder, carrier and new micrometer focusing device is supplied with the No. 5 outfit. The camera back is reversible, and accommodates regular 5x7 double plate holders. An automatic locking arrangement secures the back in three positions, permitting one, two or four exposures on a 5x7 plate. Size of lens board is 6%x6% in.

Lens.—The lens is a Bausch & Lomb portrait lens, working at F-5, and equipped with Iris diaphragm; it has a focal length of 10 in., and produces portraits of remarkable brilliancy.

Stand.—The stand is substantially made of hardwood, richly finished, and equipped with a raising and lowering device, which is positive in its action, and automatically locks the stand at any desired elevation. A new gravity tilting device is an exclusive feature of this stand.

PRICE.



THE EASTMAN HOME PORTRAIT OUTFIT.



The Eastman Home Portrait Outfit includes every essential, including 5x7 camera, lens, shutter, special tripod, background and carrier, reflector, plate holders, etc., all so arranged as to pack compactly in two cases, and light enough to be easily carried.

The camera, tripod and poles for reflector, and background carrier are made of cherry, wax finished, all metal parts of the outfit copper oxidized. The camera bellows is square, of first quality red leather, and the unusually large front board will accommodate any size lens.

The bed of the camera is tilted by means of a quick acting rack and pinion; the back is reversible and provided with focusing mirror. This focusing mirror will be found peculiarly advantageous in home portrait work, as it reflects the en-tire image right side up and one may view the image through the opening in the leather hood without stooping and without the use of the head cloth.

The focusing mirror attachment slides in a groove in the camera back, and may be folded up and removed as readily as a plate holder, when it is desired to use the ground glass screen alone, or it may be partially raised for observing the image on the screen and dropped into place again.

The lens supplied with the outfit is the No. 6 Eastman-Zeiss Anastigmat, f-6.3, ten inch focus, covering the plate perfectly at full opening. The shutter is of the automatic double valve type, equipped with a lever for opening the shutter leaves for focusing, neatly finished in black. Bulb

and six feet of tubing. A velvet lined black sole leather hood is fitted to the lens. The optical equipment

is all that the names Eastman and Zeiss imply.

The tripod is of special construction, having an aluminum top, and sliding adjustable legs, rubber tipped. Stays run from each leg to a rod in the center, which is a continuation of the tripod screw. These stays hold the tripod absolutely rigid and it may be lifted up and moved without danger of collapsing.

sing. In folding, the tripod closes like an umbrella frame, with the stays in the center.

The background is made of a special imported willow cloth, 7 feet long and 8 feet wide, the design and color being selected with special reference to photographic use; very rich in appearance, and can be folded into very small space without injury. The background rod is made in three sections, and attached to an Eastman Background Carrier.

The reflector is made of white opaque Holland shade cloth and will reflect the maximum amount of light; mounted and hung on a stand similar to the background carrier. An adjustable rod is provided for holding the reflector at any angle. Cloth bags are provided for storing the background carrier and reflector stand when folded.

The carrying cases are exceedingly light for their strength, and covered with waterproof brown Spanish Rutan, which closely resembles alligator hide.

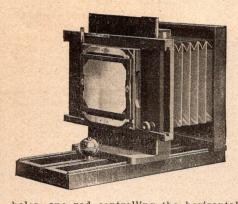
The outfit also includes nine double plate holders, extra front board, and a 36x48 inch head cloth of Italian fabric.

PRICE.

Eastman Home Portrait Outfit, including Eastman Home Portrait Camera, 5x7, No. 6 Eastman-Zeiss Anastigmat lens, Home Portrait Shutter, Lens Hood, 9 Double Plate Holders, extra Front Board, Home Portrait Tripod, Home Portrait Background and Carrier, Home Portrait Reflector, Head When Sold Separately.

Eastman, Home Portrait Camera, 5x7, carrying case, Extra Fro	nt Board and	
one Double Plate Holder	\$30.0	0
Eastman Zeiss Anastigmat Lens No. 6	54.0	0
Home Portrait Shutter	14.0	0
Home Portrait Lens Hood		5
Home Portrait Tripod	4.5	0
Home Portrait Background	15.0	0
Home Portrait Background Carrier	3.7	5
Home Portrait Reflector	4.5	0
Home Portrait Head Cloth		0
Carrying Cases, each		
Extra Plate Holders, 5x7, each		
		10

CENTURY PENNY PICTURE CAMERA.



Without question, the Century Penny Picture Camera is the most substantial and efficient camera of its kind ever placed on the market. The camera is solidly constructed of mahogany and cherry, and has a bellows capacity of 17 inch

The back is made to slide both vertically and horizontally and permits making one, two, four, six, eight, twelve, sixteen or twenty-four exposures on the same 5x7 plate. This camera is fitted with a quick-acting focusing knob, while all working parts have been constructed of material sufficiently heavy to overcome the many objectionable features of the multiplying cameras heretofore supplied.

Portrait Lens, and Packard Shutters leaves nothing to be desired in the line of a complete penny picture outfit.

The specific feature of this outfit is the new spacing device, which consists of detachable rods with appropriate movements and the other the vertical ones. By setting the

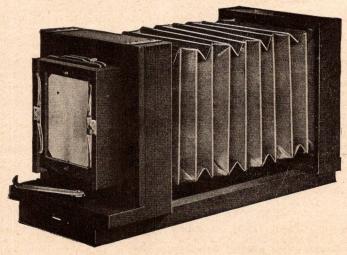
holes, one rod controlling the horizontal movements and the other the vertical ones. By setting the rod in advance for the spacing desired, the sliding back will register without further attention, by moving to successive holes, as indicated by the clicks.

The focal capacity of the Century Penny Picture Camera is 17 in. Size of lens board, 61/2x61/2 in. Will accommodate most compact shutters.

PRICE.

Century Penny Picture Camera, Non-Reversible Back, including full set of diaphragm kits and one
5x7 Century View Plate Holder
Reversible Back Century Penny Picture Camera, including full set of kits and one 5x7 Century
View Plate Holder
Extra 5x7 Century View Plate Holders, each
Century No. 5 Portrait Lens, F-5, with shutter, bulb and tube

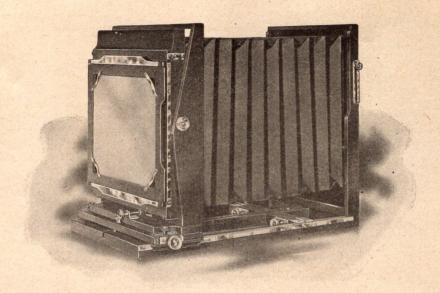
THE R. O. C. POST CARD CAMERA.



These instruments are strong and compact and meet perfectly the demand for an inexpensive, yet durable and attractive, camera for post card work. They are supplied with reversible back either 3\(^4\x\)4\(^4\x\)5\(^4\x\)5, 4x5 or 5x7 (size optional), and one double plate holder.

R. O. C. Post Card Camera	\$12.00
Extra Reversible Backs, either 3¼x4¼, 3¼x5½ or 4x5	2.50
Extra Reversible Backs, 5x7	3.00
Extra Double Plate Holders, 3¼x4½, 3¼x5½ or 4x5	.50
Extra Double Plate Holders, 5x7	.70
Extra Plate Holder Slides, 3¼x4½, 3¼x5½, 4x5	.10
Extra Plate Holder Slides, 5x7.	.15

THE IMPROVED SKY SCRAPER CAMERA.



The Improved Sky Scraper Camera is designed for photographing tall buildings and other subjects, where great rise of front and excessive swing back are necessary. In addition to its special construction for photographing in cramped quarters, this camera has all the adjustments necessary for regular work.

The large rising front, to accommodate lenses of extremely short focus, moves independently of the bellows, and is so actuated that the lens may be raised until its optical axis is above the top line of the plate.

The lens board is square, and, with the lens fitted eccentric, extreme vertical or horizontal range is possible. The lens board may be entirely reversed, or turned half way round in either direction, a feature particularly valuable when photographing tall buildings from cramped positions.

The bellows is rectangular and wedge-shaped, tapering from the side to the large front board frame, insuring strength and preventing sagging, and is made of a high grade, specially prepared material. Focusing is done by rack and pinion. The back is reversible.

Both vertical and horizontal swings are pivoted on their optical centers, and the vertical swing is operated by an accurately adjusted worm screw. The horizontal swing is locked by milled head screws firmly engaging both sides of the camera.

The front supports are made extra strong and rigid, and are firmly built into the camera bed. The back frame is likewise of unusual strength and rigidity, thus doing away with any tendency toward vibration during prolonged exposures.

The bed is hinged, the camera folding into very small compass when closed.

Camera body made of finest mahogany, all metal fittings polished and lacquered brass.

The Improved Sky Scraper Camera is an invaluable addition to the outfit of any photographer doing commercial work, as its special adjustments, used in connection with lenses of extremely short focus, permit the successful photographing of many architectural and other subjects impossible with cameras of ordinary construction.

8x10—Dimensions 16%x13x7% inches. Focal capacity 20 inches. Weight 11 pounds. Size of Lens Board 7x7 inches. Minimum focus of lens accommodated, 4 inches.

11x14—Dimensions 21½x17¼x8¼ inches. Focal capacity 25 inches. Weight 20 pounds. Size of Lens Board 8x8 inches. Minimum focus of lens accommodated, 5 inches.

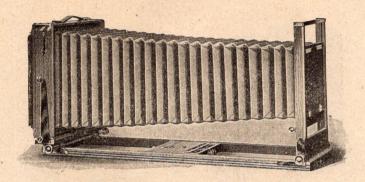
PRICE.

Including Carrying Case and One Sterling Double Plate Holder.

Improved	Sky	Scraper	Camera,	8x10	\$45.00)
					60.00	

EASTMAN VIEW CAMERA No. 1.

Improved Model of Empire State and Century View Camera.



Anyone who is in the market for a substantial, reliable view camera at low cost, will find the Eastman View Camera No. 1 of very exceptional value for the money.

The appearance of this camera is quite novel. It is finished in mission style with metal parts oxidized, and black bellows—a combination which is very pleasing to the eye.

The camera has no complications, it is built for practical service, and its various adjustments are such as to work conveniently and easily.

It has double extension, giving the camera a very long draw of bellows. Both front and back are actuated by rack and pinion, so that the camera may be focused from either end, and the back can be racked up as close to the front as desired. This provides for the use of lenses of the widest angle, without the chance of the front extension cutting off the rays to the lens.

The camera is provided with rising and sliding front of great latitude, which is actuated by rack and pinion, and this can be locked solidly at any point by merely pushing in the pinion. The front board is removable and is large enough to accommodate any lens.

Both horizontal and vertical swings are provided, and the back is reversible and furnished with a vertical cut-off board, so that two negatives may be made on one plate, if desired.

The bellows is kept up in place at all times, without sagging, by a spring arrangement attached to the inside bellows frame. This requires no attention by the operator as it works automatically and folds with the bellows when the camera is closed.

A strap handle and plumb level are supplied, and the camera folds up compactly when not in use. The carrying case is of canvas and is made to accommodate camera, six plate holders and a tripod.

Particular attention is called to the Eastman View No. 1 Complete Outfits. Never before has so much of real view camera efficiency been offered for so small an outlay.

Bellows Draw, 5x7, $22\frac{1}{2}$ in.; $6\frac{1}{2}x8\frac{1}{2}$, 26 in.; 8x10, 29 in. Weight, 5x7, 6 lbs.; $6\frac{1}{2}x8\frac{1}{2}$, 8 lbs.; 8x10, $9\frac{1}{2}$ lbs. Size of Lens Board, 5x7, $4\frac{1}{4}x4\frac{1}{4}$ in.; $6\frac{1}{2}x8\frac{1}{2}$, $4\frac{3}{4}x4\frac{3}{4}$ in.; 8x10, $4\frac{3}{4}x4\frac{3}{4}$ in. Carrying Case, long style canvas, combination style, with compartments for camera, holders and tripod.

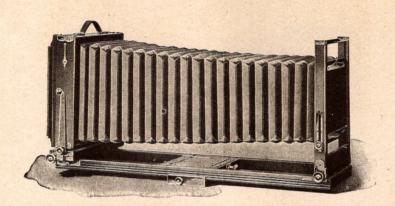
THE PRICE.

	x 7	6½ x 8½	8 x 10
Eastman View No. 1 (Improved Model of Empire State and Century View) with Case and Holder\$	19.00	\$21.00	\$23.00
Eastman View No. 1 Complete Outfit*	34.00	43.00	51.00
Complete Outfit as above, but with Rapid Rectigraphic instead of Symmetrical Lens	45.00	55.00	65.00
Extra Carrying Case	3.50	3.75	4.00
Extra Lens Boards	.30	.40	.50

*Eastman View No. 1 Complete Outfit includes: Eastman View No. 1 Camera, Symmetrical Lens, Double Valve Auto Shutter, six Plate Holders, Combination Tripod, R. O. C. Focusing Cloth and Case to hold complete outfit.

EASTMAN VIEW CAMERA No. 2.

Improved Model of Empire State and Century View.



All our experience in view camera making, all the information that we have been able to collect, of the needs of the view camera worker, have been put into the proposition of providing in this new model

a view camera as near to perfection as human ingenuity can devise.

The camera is constructed with the idea of providing the greatest possible solidity and strength throughout. The extensions are extra thick, the standard is very large and will furnish an absolutely rigid support for the heaviest lenses. Corners are dovetailed and reinforced by brass angle pieces, and

the metal parts are all made of the best quality of brass, fully lacquered.

The front board is removable and very large. The rising and falling front is actuated by rack and pinion, as is both the horizontal and vertical swings. The camera can be focused from both front and rear by rack and pinion, so that the back can be racked up as close to the front as desired. Thus lenses of the widest angle can be used.

A sliding tripod block is provided which will travel the full length of both extensions. By this arrangement the box of the camera can always be supported directly above the tripod, or the weight distributed, as the operator may wish.

The back is reversible, a plumb level and strap handle are supplied and both horizontal and vertical cut-out boards so that four different negatives can be made on one plate if desired.

The bellows of this camera is made of genuine leather and a spring arrangement working automat-

ically prevents it from sagging at any time.

One of the conveniences of this camera is the fact that the large milled head nuts that control the various adjustments are all located on the right hand side of the camera, while the binding nuts are on the left.

Another convenience is the method of locking extensions by a specially constructed device which

locks firmly by merely being pushed in and given a quarter turn.

The front extension is attached to the camera by a piano hinge, while the back extension, which is detachable, in addition to the above mentioned device is further strengthened by two clamp catches which hold it absolutely rigid.

The camera is made of hand polished mahogany, with the exception of the extensions, which are of cherry on account of its greater strength. The case is of canvas and will accommodate camera, six plate holders, tripod and focusing cloth.

The Eastman View No. 2 Outfits are similar in arrangement to the No. 1 Outfits.

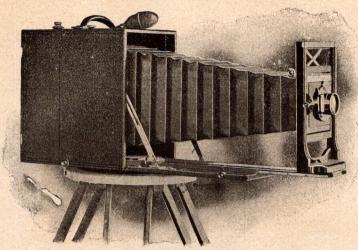
Bellows Draw, 5x7, 23 in.; 6½x8½, 26½ in.; 8x10, 29½ in. Weight, 5x7, 7 lbs.; 6½x8½, 10½ lbs.; 8x10, 11¼ lbs. Size of Lens Board, 5x7, 4½x4½ in.; 6½x8½, 6x6 in.; 8x10, 6x6 in. Carrying Case, canvas, combination style, with compartments for camera, holders and tripod.

THE PRICE.

5×7	6½ x 8½	8 x 10
Eastman View No. 2 (Improved Model of Empire State. and Century View) with Case and Holder\$25.00	\$28.00	\$30.00
Eastman View No. 2 Complete Outfit* 40.00	50.00	58.00
Complete Outfit as above, but with Rapid Rectigraphic instead of Symmetrical Lens	62.00	72.00
Extra Carrying Case 4.00	4.50	5.00
Extra Lens Board	.75	.75

*Eastman View No. 2 Complete Outfit includes: Eastman View No. 2 Camera, Symmetrical Lens, Double Valve Auto Shutter, six Plate Holders, Combination Tripod, R. O. C. Focusing Cloth and Case to hold complete outfit.

CIRKUT CAMERAS AND OUTFITS.



For many years the great field of Panoramic Photography has been out of reach merely because there was no suitable apparatus to allow of exploiting it. To make a panoramic picture—that is, to make it true as the eyes see it—true as to perspective and free from distortion, is something that had not been possible until the Cirkut provided the means of overcoming the difficulties that heretofore existed. And how successfully it has been done is evidenced by the large number of Cirkuts now in use. It requires but a moment's consideration to discover the almost limitless opportunities of a camera

It requires but a moment's consideration to discover the almost limitless opportunities of a camera with the wide range of possibilities that the Cirkut possesses. Survey the field. It is not alone for scenery, but for manufacturing plants, residences, country estates, public grounds, games and groups, that the Cirkut proves its usefulness.

Cirkut Cameras are made in two sizes, No. 10 and No. 16. the former for film either 6, 8 or 10 inches wide, the latter for 10, 12 or 16-inch widths. Any length of negative up to about 12 feet with the No. 10, and 18 feet with the No. 16, may be made, the length of the negative being determined by the focal length of the lens used. A scale is provided by means of which the operator can determine the length of film required for any exposure, and a register on the top of the tripod indicates the amount of film consumed and that still remaining unexposed. There is also a device for perforating the film after each exposure.

Cirkut Outfits are supplied in two sizes, No. 6 and No. 8, the former being the $5\bar{x}7$ Cycle Graphic, to which is fitted the Cirkut Attachment, while the No. 8 is an attachment fitted to a $6\frac{1}{2}x8\frac{1}{2}$ Cycle Graphic. The No. 6 Cirkut Outfit takes $6\frac{1}{2}$ -inch fim, and negatives up to 6 feet long may be made, and with the No. 8 Outfit a negative 8 inches wide and any length up to 8 feet may be made. By removing the Cirkut Attachments, the cameras supplied with the Nos. 6 and 8 Cirkut Outfits may be used with plates in the usual manner. Only Eastman Daylight-loading Film is used. The construction of the camera allows of the most careful focusing. The image can be seen on the ground glass not alone full width but full length of picture.

PRICE.

Includin	g Sole Le	eather (Carrying Case	for Camera	and Extra	Case for Tripod.	
	neras fitte	ed with	Turner-Reich	Convertible	Anastigmat	Lens, Series	

Ci

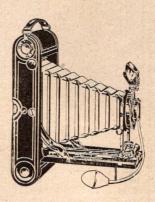
II, and Shutter:	
No. 10.	\$290.00
No. 16	425.00
Cirkut Panoramic Outfits, complete, with Lens and Shutter:	
No. 6	\$112.50
No. 8	175.00

THE FILMS.

	The Cartridge film for Cirkut Cameras is manuactured by the Eastman Kodak Co., Rochester, N. Y. We regularly supply the following sizes: Film for No. 6 Cirkut Outfit.		10 i 10 i 10 i	n. 3 n. 3	6 10 15	ft., ft., ft.,	per per	rollroll		::::	2.40 4.00 6.00
	6½ in. x 3 ft., per roll	For						rollera.			
1	6½ in. x 10 ft., per roll		8 i	n. 3	10	ft.,	per	roll		\$	3.20
	For No. 8 Cirkut Outfit. 6½ in. x 3 ft. per roll\$0.80		8 i	n. 3	15	ft.,	per	roll			4.80
	6½ 1n. x 6 ft., per roll		8 1 10 i	n. x	20	ft.,	per	roll			5.40
	b ½ 1n. x 10 ft., per roll 2.60		10 i	n. x	6	ft.	per	roll			2.40
	8 in x 4 ft., per roll		10 1	n. x	10	It.,	per	roll			4.00
7	8 in. x 8 ft., per roll		10 1	n. x	15	It.,	per	roll		LA COLD SE	6.00
1	For No. 10 Cirkut Camera. 6 in. x 5 ft., per roll\$1.20		10 1	n. x	20	It.,	per	roll	• • • • • •		8.00
	6 in. x 10 ft., per roll		12 1	n x	10	ft.,	per	roll	• • • • • •		4.80
	6 in. x 15 ft., per roll		12 i	n. x	15	ft.	per	roll			7.20
	8 in. x 10 ft., per roll		16 i	n. x	6	ft.,	per	roll			3.85
	8 in. x 15 ft., per roll		16 i	n. x	10	ft.,	per	roll			6.40
	8 in. x 20 ft., per roll	d in	Cink	n. x	Com	It.,	per	roll		1	2.80
or	Cirkut Cameras Nos. 10 and 16 be used with Cirk	ut O	utfits	No	s. 6	and	8.	s. 10 and 16		can	nim

Note.—A special Cirkut catalogue contains full information regarding Cirkut apparatus, copy of which will be mailed on request.

Kodaks, Film, Plate and Film Pack Hand Cameras.



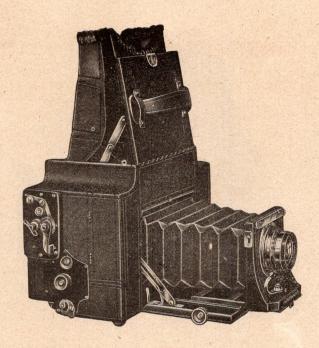
We carry a complete line of
Eastman Kodaks for roll film;
Eastman Brownies for roll film.
Eastman Autographic Kodaks
Rochester Optical Co's. Premo
Cameras, for Film pack and plates.
Folmer & Schwing Graphic Cameras,
for plates and film packs.

It would be impossible to list in this catalog all and every instrument manufactured by the above firms and to give each sufficient space to properly describe them in justice to their merits.

All the above manufacturers, at least once a year, issue individually a complete, detailed catalog of their respective products, copies of which are distributed liberally, and can be had for the asking.

Intending purchasers are respectfully requested to send to us for any of these catalogs they may be interested in.

THE 3-A GRAFLEX.



All the advantages of a reflecting camera of the highest possible type, with film simplicity and convenience, combine to make the 3-A the most popular of the Graflex models. The 3-A Graflex makes pictures of the most pleasing proportions, 3¼x5½, on regular 3-A Kodak Film.

Built into, and part of the 3-A Graflex, is the regular Graflex Focal Plane Shutter, giving instantaneous exposures from 1-10 to 1-1000 of a second, as well as time exposures of any duration. This shutter is fitted with the safety device which prevents winding the shutter until the mirror is set. The front is exceedingly rigid and large enough to accommodate Anastigmat lenses working at the highest speed; this front runs out on a platform fitted with a metal track running in guideways, which are accurately milled from heavy brass.

The focusing hood, which opens automatically when the cover of the camera is raised, is shaped to fit the contour of the face, effectually excluding extraneous light and enabling the operator to focus perfectly. The back of the camera is hinged, and when opened affords easy access to the film compartments. The lower spool center in each end of the camera is spring actuated, and when drawn out and given a slight turn, locks open, which greatly facilitates loading and unloading the camera.

While it is rarely necessary to use a tripod with the Graflex, it is occasionally desirable to give prolonged time exposures with the camera on a tripod. For this purpose two tripod sockets are provided—one in the base of the camera for horizontal, and another in the side for vertical negatives.

The surplus space at each side of the camera is converted into film storage pockets, each carrying two rolls of film. This permits the operator to carry in the camera sufficient film for fifty exposures.

The body of the camera is made from selected mahogany, thoroughly kiln-dried, lock-jointed and covered with the finest grade of Persian Morocco leather. All exposed wood parts are ebonized and harmonize perfectly with the brass parts, which are oxidized, giving a rich gun metal finish.

Any of the well known Anastigmat lenses may be fitted to the 3-A Graflex, provided the lens is of suitable focal length. The fact that the 3-A will accept lenses having a focus as short as 6 inches as well as those of greater length, the camera having a bellows capacity of 10 inches, allows the operator of a 3-A Graflex to make photographs of subjects close to the camera.

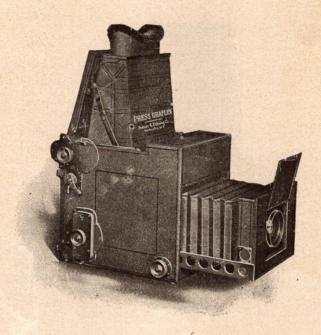
We urgently recommend the purchase of a 3-A Graflex fitted with a lens working at f-4.5, as the full value of the camera cannot be obtained unless lenses of sufficient speed are employed.

SPECIFICATIONS.

Dimensions, $10\frac{1}{4}x5x6\frac{7}{6}$; focal capacity, 10 inches; weight, 7 pounds; size of lens board, $3\frac{1}{4}x3\frac{7}{4}$ inches; minimum focus of lenses accommodated, $6\frac{1}{4}$ inches.

3-A Graflex, without lens	3 1/4	\$ 75.00	
With Zeiss Kodak Lens, f-6.3, No. 4		101.25	
With B. & LZeiss Tessar Lens, Series Ic, f-4.5, No. 15a		125.00	
With Cooke Lens, Series II, f-4.5, No. 21½		125.00	
Leather case for 3-A Graflex, extra		8.00	
Extra Lens Boards, each		.50	

THE PRESS GRAFLEX.



The photographic department of the larger daily newspapers and illustrated magazines is rapidly becoming a factor of the utmost importance, and the Press Graflex is especially designed to meet the most exacting requirements of those engaged in this line of work.

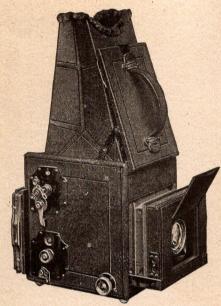
The Press Graflex is constructed to withstand very strenuous usage without injury to the mechanism, or throwing out of alignment the more delicate adjustments, and the shutter is speeded up to give exposures as brief as \(\frac{1}{1500} \) of a second, as well as time exposures of any durations.

When carrying this camera it is instantly accessible for focusing, as the top is opened by pressing a lever conveniently located near the handle; this automatically brings the focusing hood into position. The lens cover also opens the instant the front is racked out, permitting the camera to be brought into action with the least possible loss of time. This is a feature of great value to the newspaper photographer, who frequently has little or no time to prepare for making a negative.

The telescopic side arms are of sufficient length to give a bellows extension of fourteen inches, while the special construction of this camera will permit the use of lenses having a focal length as short as eight inches. The shutter curtain is wound by one complete turn of a large milled head, and the number indicating the size of the exposing aperture is reflected upward by a small right angle prism. This, together with the fact that the tension apertures are plainly visible when the camera is in its normal position, makes it unnecessary to turn the camera on its side to see either the aperture or tension index.

The focusing hood is large and spacious, giving a full, unobstructed view of the field, while the eye-shield closely fits the contour of the face, effectually excluding outside light. A detachable, spring actuated ground glass panel holds the plate holder or film pack adapter in place; this panel may be detached when using the Magazine Plate Holder or Cartridge Roll Holder, or may be used for focusing when the camera is on a tripod in an elevated position. The Press Graflex is fitted with two tripod plates for either vertical or horizontal negatives. The Press Graflex is made in the 5x7 size only.

Press Graflex without lens, including one double plate holder	5 x 7 110.00
Will D. & LZeiss Tessar Lens, Series Ic f-45 No 16	179 00
With Cooks Lens, Series II, f-4.5, No. 22. Graflex magazine plate holder, Model A, extra.	172.00 17.00
Cartridge Poll Holder leather covered, extra.	7.50
Leatner case for camera and plate holder or adapter attached, with lock and	10.00
Leather case for camera and magazine plate holder attached with lock and	12.00
key	13.50
Extra Graflex holders, each	6.00 3.50
Extra lens boards, each	.75



THE AUTO GRAFLEX.

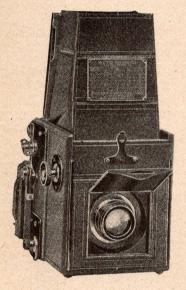
The Auto Graflex is offered in three sizes: 3½x4½, 4x5, and 5x7, each of the models embodying the exclusive Graflex features. The reflecting mirror and Graflex Focal Plane Shutter are a part of this instrument, the shutter permitting speeds from time to 1-1000 of a second. The new design of the focusing hood renders focusing particularly easy, as all extraneous light is effectually excluded.

The Auto Graflex takes the regular Graflex plate holder, and is constructed to take the Graflex Magazine Plate Holder, which may be loaded with twelve glass plates; the Film Pack Adapter which takes the Film Pack, or the Carvridge Roll Holder which permits the use of daylight loading roll film.

The Auto Graflex may be fitted with any of the well known Anastigmats, although our experience has proved that the most satisfactory results will be obtained with the lenses listed with each model.

Auto Graffex without lens, in-	3 1/4 x 4 1/4	, 4x5	5x7
cluding one double holder. With Zeiss Kodak Lens, f-6.3.No	\$55.00 74.00 No.	\$ 65.00 3 88.25 No.	\$ 80.00 5 114.50
With B. & IZeiss Tessar Series Ic, f-4.5No With Cooke, Series II, f-4.5No	. 14 90.00 No. . 20½ 90.50 No.	15 105.50 No. 21 106.50 No.	16 142.00 22 142.00
Graflex magazine plate hold- er, Model A, extra Film Pack Adapter, leather	14.50	14.50	17.00
covered, extra	4.50	5.00	7.50
covered, extra	7.50	7.50	10.00
lock and key Leather case for six plate	6.50	7.50	10.00
holders, with lock and key.	4.00	5.00	6.00
plate or roll holder	7.50 2.50 .50	9.00 2.50 .60	11.50 3.50
plate holders	2.00	2.50	3.50

THE AUTO GRAFLEX JUNIOR



SPECIFICATIONS.

Dimensions closed, $6\frac{1}{4}x5x5$ in.; focal capacity, $5\frac{1}{2}$ in.; weight 39 ozs., minimum focus of lens accommodated, 4 in.

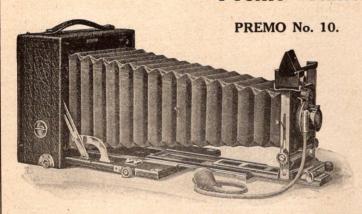
This little camera effectively supplies the growing demand for a small, compact camera of the reflecting type. Although it is small in size and light in weight, it embodies all of the exclusive Graflex features—the reflecting mirror, Graflex Focal Plane Shutter with safety device, and, above all, Graflex quality and workmanship.

The shutter is the standard Auto Graflex Focal Plane Shutter with five fixed apertures, permitting exposures of any duration from "time" to 1-1000 of a second. The front is of exceptional rigidity, as the focusing racks and front standards are stamped from one piece of heavy brass. This insures absolute parallelism of the front and focal plane, and also gives the front a permanent rigidity.

The focusing hood is readily detachable, allowing easy access to the ground glass focusing screen. This focusing hood is automatic in its action, and is finished with a square top, making it exceptionally easy to secure vertical pictures with the camera held on its side. The Auto Graflex Junior is fitted with one tripod screw plate in the bottom of the camera.

Auto Graflex Junior, 21/4 x31/4, without lens, including one double plate holder	21/4 x31/4
With Zeiss Kodak Anastigmat Lens No. 1.	\$35.00
With B. & LZeiss Tessar Series Ic, f.4.5, No. 13.	53.50
With Cooke Lens Series II, f.4.5, No. 20.	. 66.00
Graflex Magazine Plate Holder, Model A, extra.	. 66.00
Granex Film Pack Adapter, extra	
Leather case for camera and double plate holder, with lock and key	
Leather case for 6 plate holders with lock and key	
Leather case for camera and magazine plate nolder	SECURIOR SE
Extra Graflex plate holders, each	. 6.50
	. 1.00

Premo Cameras



Designed to meet the requirements of the most advanced photographer and of the specialist in photographic work, the Premo No. 10 is equipped with every known adjustment desirable in a hand camera for making pictures under all conditions.

The bellows are of such length as to readily accommodate the single combinations of any lens system, and also to meet the capacity require-ments of telephoto lenses of the highest magnifications. This feature is also a valuable one in the processes

of enlarging, copying and portraiture.
Provision is made for the use of lenses of the widest angle. For this purpose, it is necessary only to un-

arms, which drop the bed down on a hinge, removing it from the path of the shortest focus lens. Then a short supplementary bed, carried conveniently at the top of the camera when not in use, is substituted for the regular bed, affording easy focusing facilities.

The movable extensions are constructed entired.

The movable extensions are constructed entirely of metal, are actuated by a single pinion and attached to the wooden bed by metal angle pieces, making the operation impervious to changing atmospheric conditions. The swing back is actuated by rack and pinion, with locking device, as is also the rising and falling front. The standard clamp is automatic.

The camera is regularly fitted with the Planatograph lens—the best obtainable aside from the anastigmats, but it is constructed with the view of accommodating anastigmat lenses of any kind when

The finish and general workmanship of the instrument must be seen to be appreciated. The shutter and all metal parts are highly nickeled and the covering is of the best leather, especially selected for its beautiful grain. The wood is mahogany with hand polished black finish. The carrying case is of sole leather, lined with purple velvet.

With all these advantages the Premo No. 10 can be successfully used even by the beginner. special features do not have to be reckoned with excepting when needed, and the Premo adapter will convert it at any time into a daylight loading film camera. The camera is made in the 5 x 7 size only.

5×7	
Premo No. 10, with Planatograph Lens and Auto. Shutter with Autotime	
Scale, Carrying Case and Plate Holder \$ 60.00	
With Zeiss Kodak Anastigmat Lens f.6.3 and Compound Shutter 110.05	
With B. & L. Zeiss Protar VIIa Lens and Compound Shutter	
Premo Film Pack Adapter	

This splendid new Premo is designed for the photographer who wishes an instrument of very wide scope. With its complete equipment and accurate, convenient mechanical adjustments, it is a camera never before approached in plate camera construction, at the price.

The Premo No. 9 is fitted with the new Premo reversible back. This is the This is the simplest back to reverse ever offered, for with its patented spring lug construction, it may be instantly removed and reversed without any tendency to stick or bind.

The instrument is of the most substantial construction and resembles closely the No. 10, with exception of extension.

The bellows is of black leather and has sufficient draw to permit the use of the single lens combination or a telephoto

attachment of several magnifications.

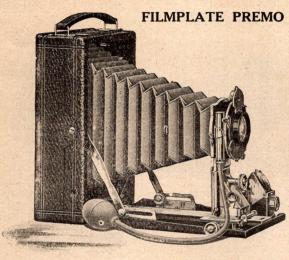
The extension plate is actuated by rack and pinion working with exceptional smoothness and provided

with a simple locking device.

The regular lens and shutter equipment comprises the Kodak Automatic shutter and Autotime scale and the Planatograph lens—a perfectly satisfactory equipment for everyday photography. The single combination of the lens will produce sharp, clear pictures of objects at a distance double the size made with the complete lens.

		4X0 5A	(3 14 X 3 7	2) 011
Premo No. 9, with Planatograph Lens, Kodak Automatic	Shut-			
Fremo No. 5, with I landtograph Louis, 12-13-13		@98 AA	\$28 00	\$33 00
ter, Carrying Case and Plate Holder		φ20.00	\$40.00	φυυ.ου
Kodak Autotime Scale		1.00	1.00	1.00
Rodak Autotime Scale		1 50	1.50	2.50
Premo Film Pack Adapter		1.00	1.00	2.00

4-F 04 (01/-- E1/) E-7



The Filmplate Premo takes films or plates with equal facility.

With rack and pinion for focusing, it is fitted also with both rising and sliding front and with swing bed for use in decreasing foreground without tipping the camera and consequent distortion. This is a valuable feature in making pictures of high buildings and the like.

The shutter is the Kodak Automatic, which works with bulb or finger release for time, bulb, instantaneous, and retarded speeds of from 1 second to 1/50 second. It is also supplied with Kodak Autotime scale. Under every possible outdoor light condition this scale shows at a glance just where to set diaphragm and speed lever to get a perfectly timed exposure. The lens is the Planatograph, the best obtainable aside from the anastigmats, and each lens is carefully tested before and after being fitted to the camera.

With accurate focusing scale and brilliant finder, the Filmplate Premo is a splendid snap shot instrument. Whereas, for particular work, the ground glass is instantly available for composition or focusing, whether films or plates are being used.

cusing, whether films or plates are being used.

And all these advantages are combined in a camera which can be carried around as easily as the most portable film camera, for the Filmplate Premo is fully as compact as the ordinary camera taking films exclusively.

The 3A size is especially suitable for post card work, for bust and full length portraiture and for artistic landscape compositions, while to those who like large size pictures the 5x7 is strongly recommended for its extreme lightness and compactness as compared with any other 5x7 camera on the market designed exclusively for either plates or films

market designed exclusively for either plates or films.

The Filmplate Premo is made in the most careful manner of the best of materials. The box is made of thoroughly seasoned wood, front bed of aluminum, all covered with selected leather of beautiful seal grain. All metal parts are highly nickeled; the bellows is of black leather, and the general appearance of the camera is most striking.

PRICE

Filmplate Premo with Planatograph Lens, Kodak Auto Shutter, Autotime Scale, Plate Holder and	31/4 x 41/4	3A (3¼x5½)	4x5	5x7
Film Pack Adapter		\$25.00 2.25	\$25.00 2.25	\$30.00 3.00

Made for those who want the best to be had, the Filmplate Premo Special is a remarkable camera. It is designed upon the idea of providing as compact and light weight and convenient a camera as possible, and a camera which must be so thoroughly equipped as to make good pictures under all conditions of photography where pictures could possibly be made, aside from ultra rapid focal plane photography.

All these features are combined in the Filmplate Premo. First, because of its ground glass focusing feature, is an especially valuable consideration. Second, because it takes films or plates at the choice of the operator or as the occasion may require. Last, because the camera is so light, compact and convenient to operate

erate.

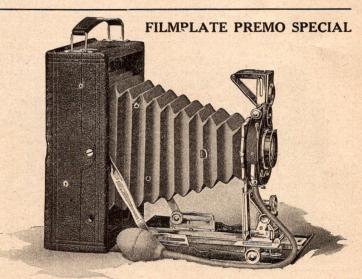
The camera is fitted with the Zeiss Kodak Anastigmat, the lens made expressly for hand camera work, and the

Compound shutter, which attains a speed of 1/250 second in the $3\frac{1}{4}x4\frac{1}{4}$ size, 1/200 second in the $3\frac{1}{4}x5\frac{1}{2}$ and 4x5 sizes, and 1/150 second in the 5x7 size, working also, of course, for time and bulb. This equipment cannot be surpassed. A rising and sliding front, swing bed, reversible finder, two tripod sockets, and rack and pinion focusing attachment are provided.

The covering is a rich black morocco, the bellows black leather, and metal parts are handsomely nickeled, producing a most attractive combination. Particular attention is called to the 3A size for its all-around popularity, and to the 5x7 for its unusual compactness for a 5x7 camera of its great capabilities.

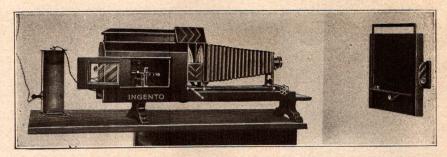
The Filmplate Premo Special is a camera par excellent for anastigmat lens workers and those who insist upon the best to be had.

Filmplate Premo Special with Zeiss Kodak Anastig- mat f-6.3 and Compound Shutter, Film Pack Adapt-	31/4 x 4 1/4	3A (3¼x5½)	4x5	5x7
er and Plate Holder	\$50.00	\$60.00	\$60.00	\$80.00
Do, Cooke Ser. III A. f-6.5 Lens	61.00	67.50	67.50	90.00
Do. B. & L. Zeiss Tassar Ser. II B. f-6.3 Lens	60.50	71.00	71.00	90.00



INGENTO ENLARGING OUTFIT. STYLE A.

This outfit is for quick and accurate projection work, and should be a part of every photographer's equipment. It has a capacity of turning out from 100 to 350 enlargements a day, but will pay for itself in less than six months' time, if only one medium sized enlargement is made daily. The pos-



session of this outfit will give such facilities for making enlargements that the demand can be readily increased. It is especially suitable for making any size enlargements on developing papers as well as bromide paper, also for making enlarged negatives or transparencies and lantern slides by reduction. This outfit can be also used for projecting lantern slides for entertainment.
The Ingento Enlarging Outfit is made in two sizes:

No. 1, with 6½-inch Condensing Lens for 4x5 or smaller negatives.

No. 3, with 9 -inch Condensing Lens for 5x7 or smaller negatives.

Supplied with Ingento Rheostat No. 1—25 amperes, giving from 2,000 to 3,000 candle power; Ingento Rheostat No. 2, 15 amperes, from 1,000 to 2,000 candle power; or Ingento Rheostat No. 3, 7 amperes, producing from 500 to 1,000 candle power. The No. 1 and No. 2 are to be connected to the direct supply wire of the incandescent current. The No. 3 is to be simply attached to any incandescent socket.

SPECIFICATIONS.

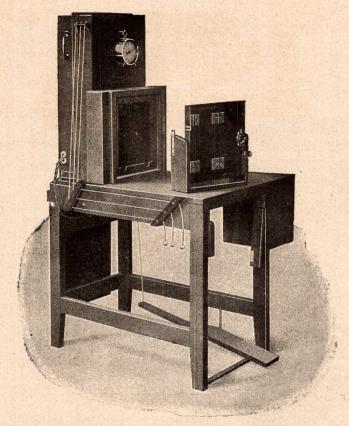
The outfit consists of one self-contained, complete Ingento Enlarging Lantern, with adjustable hand feed 90° arc lamp, Rheostat, wiring, combination fuse block and knife switch, condensing lenses, ground glass diffusion screen and reversible adjustable negative carrier for glass or film negatives, but without objective lens, as almost any camera lens may be used, one complete Focusing Platform for rapidly adjusting the size of the image and fine focusing, also one Ingento Enlarging Easel Style B, with adjustable frame for centering, registering and adjusting the enlargements.

A-1. Outfit complete with 61/2-inch Condensing Lenses, as described, without Outfit complete with 9-inch Condensing Lenses, as described, without projecting lens.



	PRICES.	
F-1.	Lantern complete with Incandescent Gas Burner and 6½-inch Condensing Lenses, but without projecting lens	5.00
F-2.	but without projecting lens. 4 Same as above with No. 1 Ajax Projecting Lens. 4 Lantern complete with Acetylene Burner and 6½-inch Condensing Lenses, but with-	1.00
G-1.		5.00
G-2.	Same as above with No. 1 Ajax Projecting Lens.	4.00 4.00
H-1.	Lantern complete with Gasoline Vapor Lamp and 672-11th Condensing Benses, and	0.00
TT 0		9.00
H-2. F-3.		
1 - 0.		4.00
F-4.	Same as above with No. 2 Alax Projecting Lens. Condensing Lenses but without	
G-3.		0.00
G-4.		4.00
		4.00
H-3.	Lantern complete with Gasoline vapor Lamp and 3-men condensing Lenses, 12-17	5.00
1		9.00
H-4.	Same as above with 110. 2 miles	2 1

The F. & S. Printing and Enlarging Cabinet.



Showing Cabinet Ready for Printing.

There is an increased demand for a rapid, effective and inexpensive means of making developing paper prints and bromide enlargements that will be absolutely uniform.

The F. & S. Printing and Enlarging Cabinet has been designed to meet this demand, and its prolonged use, under most trying conditions, has proved it to be a most effective device. In addition to making contact prints, this cabinet can be used for making enlargements from either plates or films. This feature enables the photographer to make his own enlargements from his own negatives to suit himself without delay or inconvenience.

The Cabinet consists of a table to which is attached a swinging light box to contain the Cooper Hewitt Light. Immediately in front of this box are adjusted three diffusing screens in frames, which are operated from the front of the cabinet. A semi-opaque shutter is adjusted in front of the diffusing screens, operated by foot treadle from the forward end of the cabinet. A special timing clock registering seconds is suspended directly in front of the operator. One of the most unique features of the outfit is a swivel printing frame, which may be adjusted at any distance from the light according to the varying density of the negative. This frame may also be placed at an angle allowing one end of the negative to receive more exposure than the other, a valuable feature in printing negatives showing white draperies, etc.

At the operator's right is a light-tight box to contain paper and prints. This box has an automatic cover that is opened by a slight side pressure of the knee.

The Bromide Attachment consists of a No. 1 Graphic Enlarging and Reducing Camera with equipments of cone, negative carrier, kits, etc., and a sliding Bromide Easel that is adjustable to the cabinet. The easel is fitted with spring finger clips, doing away with the necessity for using thumb tacks, pins, etc., for attaching the paper to the easel.

This outfit is intended for use with the Cooper Hewitt Light only, which light can be secured from professional stock houses, or the Cooper Hewitt Electric Company direct. In ordering the light, it is necessary to give kind of current used; if direct, give voltage, and if alternating, voltage and frequency of cycles. In placing order for tube for alternating current, the special "Type C" Tube should be specified, while for direct current the "Type H" Tube should be mentioned.

PRICE.

Projection Instruments

Probably no branch of optics has developed more rapidly or attracted more popular attention in recent years than projection. No longer a mere toy but a scientific instrument, the projection lantern to-

day affords a much wider range of usefulness than ever before.

While of unquestioned value in the school room, its possibilities in many other fields are very generally recognized. It is more popular than ever in the home because of the high grade apparatus now producd at a moderate cost. Churches and Sunday schools value it for entertainment and instruction purposes, while lodges use it widely in their ritualistic work.



MODEL C BALOPTICON.

The Model C Balopticon has been designed to meet the demand for a projection lantern which, though low in price, is thoroughly reliable and will do work of a strictly scientific nature. That this design has been successful is attested to by the remarkable popularity which this Balopticon has attained and the very general satisfaction it has given. Simple in construction, easy to operate and conveniently portable, it is particularly popular in the graded school, the church, lodge and home.

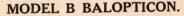
PRICE.

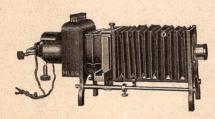
Model C with 6, 8 or 10-inch focus lens. Without lamp.	\$30.00
Model C with 12 or 15-inch focus lens. Without lamp	35.00
Hand-Feed Arc Lamp with centering support	10.00
Incandescent Electric Lamp, 100 c. p., on support with 10-foot extension cable and Hubbel connection plug	
Acetylene Lamp with reflector and 6 feet of rubber tubing	8.00

LECTURERS' SPECIAL MODEL C BALOPTICON

As shown in illustration, this outfit is designed especially to meet the requirements of institute workers and lecturers in general. It is greatly appreciated by all those who desire a complete projection outfit, including lantage supporting stand, illuminant and lantern, supporting stand, illuminant and required accessories, which can be carried as conveniently as the lantern alone.

Portable Screen, 6 feet square, on plain roller in canvas covered case with reinforced leather ends. 8.00





The Model B Balopticon is constructed along the simplest possible lines, is very durable and can be easily operated by persons inexperienced in the use of such apparatus, or by children. Electricity is the best illuminant for projection, and we furnsh this lantern with either the special miniature arc lamp with rheostat of 4-ampere capacity, or a 100-watt special Tungsten incandescent lamp.

Either of these lamps can be used as the ordinary house wiring without inconvenience or danger. Simply insert the plug in any lamp socket, turn on the switch and go ahead. For adults we

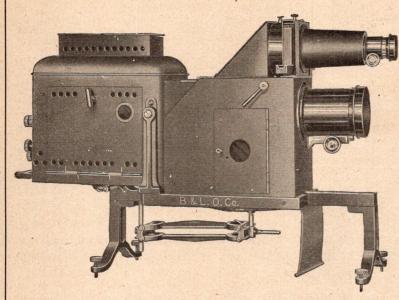
particularly recommend the arc lamp, as it gives better illumination and does not require much attention. Model B Balopticon, as described, with 100-watt Tungsten incandescant lamp, cord and plug, com-

plete in carrying case with directions.....\$22.00 Model B Balopticon, as described, with special arc lamp, 4-amp, rheostat, cord and plug, complete

WILL FURNISH CATALOG OF THE COMPLETE BALO PTICON LINE ON REQUEST.

BAUSCH & LOMB UNIVERSAL BALOPTICON.

(NEW MODEL.)



Universal Balopticon No. 4185 in Position for Lantern Slide Projection.

This new model of our popular Universal Balopticon is a combined outfit designed for various forms of projection wherever a superior apparatus with a wide range of adaptability is desired. It offers many educational and entertainment possibilities, is high grade in every particular and at the same time easy to operate.

In its simplest form (Figure 1) it projects either lantern slides or opaque illustrations and objects of widely varying size and shape. In this form it is a particularly valuable instrument for the church or Y. M. C. A., as well as the school or college, and can be made especially attractive by the addition of a moving picture attachment which we can supply at any time.

For educational purposes it can very readily be built up for microscopic and vertical projection also, in all cases the interchange from one form of projection to another is easily and quickly made, involv-

ing only the setting of a movable mirror and the ready shifting of attachments.

The mirror mounting, located within the dark chamber, is controlled by an exterior lever and has reflecting surfaces on both sides. For lantern slides it is set to send the light up into a prism-shaped mirror box, which directs it through the slide and projection lens.

For work with opaque illustrations or objects this apparatus is arranged to give maximum illumination for a single light source, resulting in an unusually bright image. This is effected by direct lighting of the object without intermediate reflections and by the short distance between illuminant and object.

To accomplish this the lamp house is tilted, as shown in Figure 2, and held in position by a strong spring lever. The light is thus thrown directly on the object, which is held in a horizontal position, and the mirror reflects it through the large projection lens to the screen, where the image is shown in correct position without the use of any exterior reversing mirror. The opening for opaque objects is 6 inches square, the adjustable object holder and the arrangement of the base permitting objects of any reasonable size to be placed in position for projection.

With the addition of the vertical equipment organisms in water, physical, chemical and biological demonstrations or any subjects which must be placed in a horizontal position can be shown on the screen. This equipment, shown in Figure 3, is mounted on one end of a rectangular plate, which slides on metal rods over the opening in the top of the dark chamber.

The mirror box and equipment for lantern slides is mounted on the other end of this plate, and to change from one form to the other one has simply to shift the plate by means of a convenient handle. The position of the movable mirror within the dark chamber is the same for either lantern slide, opaque or vertical projection because of its two reflecting surfaces.

For microscopic projection (Figure 4) provision is made for attaching a carefully planed optical bed to the front of the base by means of a strong but convenient set screw. The microscope with mounting is then attached to the bed in front of the large projection lens, which serves as a condenser. The movable mirror is raised to permit a free passage of light. If it is desired to change suddenly to opaque projection, the microscope can be quickly swung out of the path of light without removing.

For those desiring to project moving pictures we can supply the Universal Balopticon equipped with any standard moving picture attachment. The Balopticon is then so mounted that it can be easily shifted with reference to the attachment, permitting quick interchange from moving picture work to any of the other forms of projection. We shall be glad to quote a price for fitting this model with any standard moving picture attachment desired.

SPECIFICATIONS.

Base—Of cast iron, 25 inches in length; carried at height of 7 inches from table by two cast iron supports of 11-inch spread with elevating screws front and rear.

Lamp House—Measures 13¼ inches long, 13½ inches high and 7½ inches wide; light-tight and freely ventilated; constructed of double sheet metal walls, with an air space between the two walls and the roof fitted with our special patented ventilator; provided with large, light-tight spring door on the side and observation windows on both sides; mounted between uprights at front end and provided with handle at rear, permitting it to be easily tilted for opaque projection and held rigidly in position by strong spring arm; conforms to the most rigorous requirements of Board of Underwriters.

Illuminant—Hand-feed arc lamp for direct or alternating current.

Condensing System—Consists of two rear lenses of our triple system, 6-inch diameter, in ventilated mount directly in front of lamp house, rendering light approximately parallel in dark chamber, and a plano convex lens placed in front of the mirror box for lantern slide work, completing triple system.

Object Holder—Round, of heavy metal, mounted on double arm with spring hinge at each end and handle at holder end; the whole adjustable for height on a grooved vertical standard and provided with set screw; will accommodate objects of widely varying thickness and size, the holder always remaining parallel to base and automatically bringing object into proper plane of projection; dark curtain in front of opening prevents light from flooding room when object is being changed.

Mirror Box—Of sheet metal, prism shape and light-tight; mounted over opening in top of dark chamber and containing stationary mirror at suitable angle to reflect beam of light through lantern slide.

Slide Carrier-Our double carrier, No. 4430, with automatic elevating device.

Projection Lenses—Two of our Standard lenses with rack and pinion focusing adjustment, that for lantern slides regularly of 8-inch focus, 15/4-inch diameter, and that for opaque work of 15-inch focus, 4-inch diameter; lenses of other foci may be substituted if so specified.

Dimensions—Length over all, 38 inches; height, 24 inches.

Vertical Equipment—Regularly furnished with Universal Balopticon No. 4186 only, but can be ordered separately and easily added to No. 4185; consists of a rectangular metal plate, 6½x12 inches, with circular opening at either end; over one end is mounted a plano convex condensing lens with plane side up, to complete triple condensing system for vertical projection and provide stage upon which to work; upright grooved standard near opening carries 10-inch focus, 1½-inch diameter projection lens and mirror for vertical work; over other opening provision is made for mounting mirror box with lantern slide equipment; for quick transformation from one form of projection to the other entire plate slides on metal rods and is operated by convenient handle.

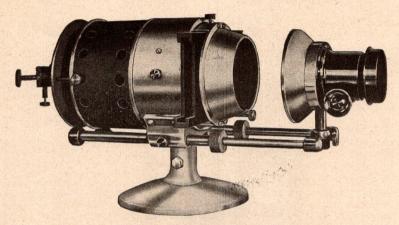
POSSIBLE ATTACHMENTS.

The medium microscope, No. 4250, or large microscope, No. 4138, and any standard moving picture attachment can be used successfully with this Balopticon.

	Price.	
Universal Balopticon, as described, without vertical equipment	\$160.00	
No. 4185, but with vertical equipment as described.		
Vertical Equipment, as described, with mounting for easy attachment to dark		
chamber of No. 4185		
Medium Microscope with projection eyepiece, substage condenser and three		
diaphragms for use in slide carrier; mounted on swinging arm; without		
objectives (optical bed No. 4141 must be ordered with this microscope).	45.00	
	ATTENDED TO SERVICE AND ADDRESS OF THE PARTY	
Substage Water Cell for medium microscope.	5.00	
Large Projection Microscope, including amplifier, new projection eyepiece, sub-		
stage water cell, three substage condensers, triple revolving nosepiece,		
three diaphragms for use in slide carrier; mounted on swinging arm;		
without objectives (optical bed No. 4141 must be ordered with this micro-		
scope)	100.00	
No. 4138, but with 32, 16 and 8 mm objectives	117.00	
Optical Bed, carefully planed, 15 in. long; attaches easily to front end of base		
of Universal Balopticon to accommodate microscope	5.00	
Achromatic Microscope Objective, 32 mm (1½ in.) E. F	4.00	
Achromatic Microscope Objective, 16 mm (% in.) E. F.	5.00	
Achromatic Microscope Objective, 8 mm (1/3 in.) E. F	8.00	
Adjustable Rheostat, 15 to 25 amperes, 110 volts.	18.00	
Adjustable Rheostat, 15 to 25 amperes, 220 volts.	25.00	
Adjustable Rheostat, 15 to 35 amperes, 110 volts.	27.00	
Balopticon Table, of metal, with 32x15½-in. wooden top adjustable for tilting,	21.00	
shelf for accessories and holder for rheostat; mounted on castors	16.00	
Balopticon Table, having strong cast iron base and frame with heavy 40x17-in.	10.00	
Balopticon Table, having strong cast from base and fame with neavy 40x1-in.		
revolving wooden top and space beneath for adding cabinet, if desired;	20.00	
provided with castors and leveling screws	30.00	

PRICES CORRECTED ONLY TO PRESENT LIST PRICES.

VICTOR PORTABLE STEREOPTICON.



MODEL I.

The Model I Victor is equipped for the electric arc only. This is the original portable Stereopticon, differing in every detail from all other lanterns.

Owing to the unique construction of the Victor and the permanently centered light, this instrument may be unpacked, set up and put into operation with an image focused on the screen in less than two minutes.

Carbons are brought into contact, the arc forms exactly in the optical axis so that there is no further inconvenience nor loss of time to produce a clearly-illumined field.

Attachment is made to any incandescent lamp socket, without the use of special feed wires.

Focusing, raising, lowering and righting the image on the screen are accomplished in but a few seconds.

Owing to its aluminum construction, this instrument is very light in weight; truly portable. Aluminum not only reduces the weight, but produces a beautiful and permanent non-rust finish.

The lens equipment is high grade throughout. Choice is allowed between any objective or projection lens to produce the desired size image at any distance.

The entire outfit may be packed in a carrying case, but 20 inches in length, which accommodates besides the machine, lenses and rheostat, and 50 or 100 slides.

The Victor Portable Stereopticon is guaranteed to give absolutely satisfactory service under any and all conditions,

MODEL II.

This instrument forms the ideal outfit for use of travelers requiring a Stereopticon that may be used independently of electric current. The Model II meets every emergency—is thoroughly reliable under all conditions.

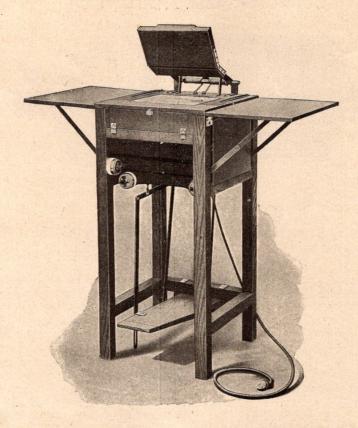
The arc lamp used on the Victor Model II is the same as on the Model I. The only difference is that the arc lamp may be removed by loosening two set-screws and an improved acetylene attachment put in its place.

The Victor acetylene lamp is an improved type consisting of a double burner and a perfect mirror reflector, producing an intense beam of light. May be used with either compressed acetylene gas tank or generator.

As is true of all Victor Stereopticons, there is absolutely no adjustment of the light necessary, with either the acetylene lamp or the electric arc. Focusing, raising, lowering and righting the image is accomplished with the same ease as with the Model I electric.

Model I Victor Portable Stereopticon complete, including 110 volt 5 ampere rheostat, condensers, projection lens, slide carrier and connections	* 2 F 0.0
Model I Victor—Same as above, but with combination 110-220 volt 5 ampere rheostat	10.00
Model 11 Victor—Combination electric and acetylene, with complete 110 volt equipment and acetylene	
lamp (no generator)	40.00
Model II Victor-Complete for electric arc only, with 5 and 10 ampere rheostat (for high power light).	40.00
Model II Victor—Acetylene only (no tank or generator).	20.00
Carrying Case for any outfit:	30.00
Leatherette cover, lock and key	7.50
Full Genuine Leather covered	1950
Extra Objectives:	12.90
6, 8, 10 or 12 in. E. F., each	7.00
16, 18, 24 in. E. F. (for long distance), each	9 00
Carbons, per 100, 6-inch	0.00
Carbons, per 100, 12-inch.	3.00
	6.00

F. & S. PROFESSIONAL PRINTER.



The F. & S. Professional Printer is a simple and thoroughly efficient printing machine for the use of the professional photographer. The fact that the printer is operated by a foot treadle leaves both hands free for adjusting the paper and negative, a 12x17 inch folding leaf at each side of the machine affording ample space to carry the paper and negatives. The pad is so constructed that the paper and negative are brought into absolute contact, with either single or double weight paper; as soon as full pressure is exerted on the pad by pressing down on the foot treadle, the lights are automatically turned on. To insure perfect contact through the entire exposure period, the current is not turned off before the pressure is released on the pad.

The light box is arranged to carry nine 40-watt Tungsten Lamps in three rows, in addition to one ruby light to enable the operator to adjust paper and negatives. All of the lights may be illuminated, or any row of three lamps controlled separately, according to the density or quality of the negative, an independent switch controlling each row of lights. As the lamps, with the exception of the ruby light, remain burning only during time of exposure, the F. & S. Printer is exceptionally economical to operate.

A sheet of crystal plate glass is flush with the top of the stand, forming the printing surfare, which is large enough to accommodate a full 8x10 negative. A slide at the side of the table top permits the removal of the glass for adjusting or renewing the lamps. Immediately under the printing surface, grooves are provided into which may be placed sheets of ground or flashed opal glass. One sheet of flashed opal glass will usually diffuse the light sufficiently for even illumination. Spring fingers are attached to the top of the printing table for the purpose of holding masks.

The machine is substantially constructed of hardwood in weathered oak finish, and is so simple in design there is nothing to get out of order. Economy of operation, simplicity in construction, combined with the ability to dodge while printing by varying the illumination, make the F. & S. Professional Printer the most efficient printing device on the market.

PRICE.

No. 1 No. 2

F. & S. Professional Printer, without lights, including 6 feet of Conductor Cord and one \$\frac{\\$x\10}{25.00}\$ \$\frac{\\$x\25.00}{\\$25.00}\$ \$\frac{\\$x\25.00}{\\$25.00}\$

The Selection of Photographic Lenses

In selecting an adequate photographic outfit for a definite purpose, it is necessary in the first place to know just how far our expectations can be realized. As a guide to their characteristics and possibilities, it is well to keep in mind the limitations that have been placed by the laws of optics.

been placed by the laws of optics.

We shall therefore try to explain the general capabilities of lenses, as far as is necessary for individual selection, and at the same time to point out the limits within

which the ambitions of the photographer must be confined.

The assortment of lenses contained in our catalogue meet every requirement of both

amateur and professional photographer.

Lenses are classified as follows: First, Focal Length; Second, Speed; Third, Construction.

FOCAL LENGTH.

By the focal length of a lens is meant the distance between the ground glass and the leaves of the diaphragm when the lens is focused on an object at least one hundred feet away. The focal length governs the size of the image produced by the lens on the ground glass, the greater the focal length the larger the image appears. Under no circumstances is the size of the image influenced by the size of the diaphragm but by the focal length alone.

SPEED.

Speed or illumination of a lens is regulated by the amount of light that can pass through it in proportion to the focal length. A lens of great speed will produce perfect details with rapid exposures even when working under unfavorable light conditions. The greatest speed possible is obtained with the largest diaphragm aperture of the lens.

Speed varies in direct proportion to the different apertures of the diaphragm. The method commonly used to designate the speed of a lens is by the F System, which expresses the aperture in fractions of the focal length. For example, if a lens is designated to work at F.6, the diameter of the lens must be one-sixth of its focal length.

THE DIAPHRAGM.

The size of the diaphragm governs the brightness of the image transmitted by the lens. The smaller the diaphragm the darker the image appears on the ground glass.

For the purpose of operating the diaphragm rapidly, a scale is engraved on the

mount in the F system which indicates the various apertures.

This scale is the most popular among photographers owing to the facility it offers for determining an exposure. Example: If a lens working at F:8 requires one second to obtain a correct exposure, an exposure of four seconds is necessary for F:16, as the area of light is figured in square proportions.

DEFINITION.

Definition is the quality of a lens which makes it capable of producing an image

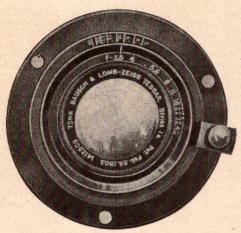
that is absolutely sharp.

We must, however, point out explicitly that the expression, "perfect sharpness of definition" is to a certain extent, vague, as in the various kinds of photographic work different standards of sharpness of the image are set up, hence perfect sharpness is not always desirable. The portrait photographer desires to give his pictures a certain softness, and makes use, in a clever way, of the indistinctness of depth. The landscape photographer, on the other hand, wants a sharpness which allows of enlarging the negatives to several times their original size. The reproducing photographer requires absolute sharpness of lines which will stand a sharp examination by the aid of the magnifying glass. Most lenses give critical sharp definition, but which, if desired, can be softened at the will of the operator.

CONCERNING THE WORKING CAPACITY OF LENSES.

It must not be forgotten that every optical instrument can only fulfill the conditions that are not contrary to the laws of optics. Therefore, it is our desire to impress the reader with the fact that it is impossible to construct a lens that possesses great illumination or speed and to have at the same time the equal amount of depth of focus that can be obtained by slower working lenses, as the larger the aperture the less becomes the depth of focus. But if a lens, with a working aperture of F:4.5 is stopped to the same relative aperture of a lens F:6.8, it will be seen that the F:4.5 lens will have exactly the same depth of focus as the F:6.8, providing they have the same focal length.

Bausch & Lomb Lenses TESSAR Ic. F:3.5—FOR MOTION PICTURE CAMERAS



The rise of the motion picture industry has brought up new problems, including a demand for lenses of enormous speed as the motion picture operator cannot control the weather conditions and must usually take his pictures just as he finds them.

Owing to the short focal lengths which are ordinarily demanded, the speed of F:3.5 is attained, which means that the light admitted to the film is almost double that of the Series Ic Tessar, F:4.5, used on the reflecting cameras. Compared to ordinary camera lenses, Tessar Ic, F:3.5, is five times faster.

Owing to the short focal length of the lenses, 2 inch for the No. 1 and 3 inch for the No. 1a, the lenses have enormous depth even at fullest aperture. A greater speed than F:3.5, while attainable and useful on some occasions, shows a lack of depth qualities. F:3.5 represent the highest practical speed and it will be found that the lenses must be stopped down in good light, so as to prevent overexposure.

In S	piral	Focusing	N	lount
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Speed F:3.5	No.	Full Opening 3/4x1	eter	Price \$28.00
F:3.5 F:3.5	1 1a	34 x1 114 x114	$\frac{9}{16}$ $\frac{27}{32}$	\$28.00 34.00
F: 4.5		3/4 X1	3/8	29.00
				101 0 10 10 10 10 10 10 10 10 10 10 10 1

In Barrel with Iris Diaphragm

Cat. No.	Covers at Full Opening	Diam- eter	Price
1	34 x1	9	\$25.00
1a	11/4 x11/4	27 32	31.00
	3/4 x1	3/8	26.00

BAUSCH & LOMB ZIESS TESSAR, SERIES Ic, F:4.5

Speed F: 3.5 F: 3.5

F:4.5

The Tessar Ic is admittedly the most universal lens of the symmetrical type. Its simple construction of four thin elements of Jena glass, makes the absorption of light practically nothing. The leading characteristic is speed. This aperture, F-4.5, is maintained in every size up to the largest, and its covering power in proportion to its focal length exceeds all other F-4.5 anastigmats. Combined with speed, we also have the highest optical corrections and needle-point definition.

The definition of the Ic Tessar at its full aperture, F-4.5, is remarkable. The lens will do all that it is possible to do with the Series IIb Tessar, and in addition has twice as much speed. This speed becomes available when the lens is opened up for short exposures at high speeds, or exposures when the light is very weak.

Tessar Ic is unequalled for the most difficult speed photography on reflecting cameras, for studio work, for home portraiture, groups, landscapes, and other applications of the art. Compactness of mounting is an important factor in lenses for reflecting cameras, and the short barrel with inclined diaphragm ring, allowing easy reading of scale from front of camera, appeals to everyone. The lens is finished in black lacquer throughout.



The advantage of speed in a lens needs no argument. In the Ic Tessar it is available whenever you need it. At F-6.3 you have the same depth of focus and rapidity as the IIb Tessar, and so on through the smaller apertures. Tessar Ic should be put on all cameras which will accommodate its greater bulk, as it has twice the speed of the Tessar IIb and about four times the speed of the ordinary camera

The sizes No. 13 to No. 17 are recommended for reflecting cameras.

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			FNI	UE.				
	Size of Plate Covered with Stop F-4.5	Size of Plate Covered with Small Stops	Equivalent Focus	Diameter of Lens	Lens and Barrel with Iris	Fitted with Aluminum Volute	Fitted with Aluminum Compound	
No.	Inches	Inches	Inches	Inches	Diaphragm		Shutter	
13	21/2x 31/2	31/4 x 41/4	41/2	1	\$31.00	\$48.00	\$43.50	
14	31/4 x 41/4	4 x 5	5	13/16	35.00	52.00	49.00	
15	4 x 5	41/4 x 61/2	6	15/16	40.50	59.00	54.50	
15a	5 x 7	5 x 8	7 1/16	19/16	50.00	68.50	67.00	
16	5 x 8	61/2 x 81/2	81/4	17/8	62.00	82.00	79.00	
17	61/2 x 81/2	8 x10	97/8	21/4	99.00	119.00	117.50	
18	8 x10	10 x12	11%	25%	139.50		167.50	
18a	10 x12	11 x14	14%	3 5/16	180.00			
19	11 x14	12 x16	15%	39/16	217.00			
20	14 x17	16 x18	19%	4 7/16	310.00			

BAUSCH & LOMB-ZEISS TESSAR, SERIES IIb. F-6.3.



For General Use on Hand-Cameras, Groups, Landscapes, Commercial Photography, Enlargements, Etc.

Tessar IIb is one of the most compactly mounted and lightest lenses on the market, and can be fitted almost without exception to any compact hand camera. It increases wonderfully the efficiency of any camera by making possible exposures on dull days, or late in the day, when ordinary lenses are completely out of commission. It has twice the speed of the ordinary camera lenses, and gives wonderful definition over the whole surface of the plate, way up into the corners.

nition over the whole surface of the plate, way up into the corners.

The professional will find this lens to be invaluable for group work, exterior or interior. The advantage of a lens which will cover sharply with a moderately short focal length will be obvious to those who have been hampered by lack of room in making groups.

	Size of Plate			Lens and	Fitted with	Fitted with
	Covered with	Equivalent	Diameter of	Barrel	Aluminum	Aluminum
	Stop F-6.3	Focus	Lens	with Iris	Volute	Compound
No.	Inches	Inches	Inches	Diaphragm	Shutter	Shutter
3	2½x 3½	43%	3/4	\$ 28.00	\$ 45.00	\$ 39.00
4	31/4 x 41/4	5%	15/16	29.50	46.50	42.00
5	4 x 5	61/8	1 1/16	31.00	48.00	45.00
5k	31/4 x 51/2	6%	1 3/32	38.50	55.50	51.00
5a	5 x 7	7 1/16	11/4	43.50	62.00	57.50
6	5 x 8	81/4	17/16	53.00	71.50	70.00
7	6½x 8½	10	1%	71.50	90.00	88.50
8	8 x10	12	21/8	105.50	125.50	124.00
9	10 x12	14%	27/16	136.50	156.50	155.00
9a	11 x14	16½	23/4	166.00		194.00
10	14 x17	191/4	35/16	217.00		
11	16 x20	231/8	3 15/16	279.00		

B. & L. ZEISS PROTAR WIDE ANGLE SERIES IV, F-12.5.



This is the only lens in existence which combines the two important qualifications of wide angular aperture and speed to an unusual extent. It may be classed as a medium wide angle and is listed as such, ziving sharp, well covered yictures, free from the ordinary distorted edges, a very important feature in a lens of this character, especially for outdoor architectural photography. Its use as an extreme wide angle, however, is not precluded if the next small-

especially for outdoor architectural photography. Its use as an extreme wide angle, however, is not precluded if the next smallens is used on the next size plate. Its speed is such that it will give instantaneous exposure, and it is particularly valuable in flashlight exposures. The objective is a deviation of large gatherings.

The objective is a doublet each system of which is composed of two lenses. Being an unsymmetrical lens the two systems cannot be used separately.

The angle of view is more than 100 degrees in the first six numbers and 85 degrees in the larger. Of these, 68 degrees and 44 degrees respectively are utilized on the plates for which the various members of the series are listed. The next larger plates are well covered with smaller stops.

PRICE.

	Size of Plate		Free Di	a. F	itted with
	Covered with	alent	of Large	est A	luminum
	Stop F-12.5*	Focus	Lens	Lens	Volute
No.	Inches	Inches	Inches	Only	Shutter
1 2	31/4 x 41/4	27-16	1/4	\$ 15.00	Directer
2	4 x 5	37-8	3%	15.00	\$ 32.00
3	41/4 x 61/2	4 11-16	3/8 1/2	18.00	35.00
5	5 x 8	6 1-16	5%	21.00	38.00
5	8 x10	7 11-16	13-16	27.00	44.00
6	10 x12	10 1-4	1	40.50	
7	12 x15	15 3-16	1 5-16	61.50	57.50
8	16 x20	23 13-16	2	108.00	80.00
9	20 x24	35 11-16	2 15-16		128.00
10	24 x30	48 3-8		243.50	
	22 200	30 9-0	3 1/8	543.50	

The next larger plate is well covered with smaller stop.

B. & L. ZEISS PROTAR WIDE ANGLE SERIES V, F-18.



Series V is intended for the most exacting wide angle photography, such as architectural and interior work. Anastigmatic and spherical corrections are as perfect as obtained in a lens of this character.

The images are entirely free from distortion from center to margin of plate, even with the most extreme angle.

The larger sizes were designed especially for copying.

The angle of view is 110 degrees in the sizes up to and including 7a. Above that number the full angle is 90 degrees. In the smaller sizes the angle utilized is 75 degrees, but the full angle can be utilized by using large plates and smaller stops. In the larger sizes the angle utilized is 40 degrees. The next larger plate is well covered with a smaller stop.

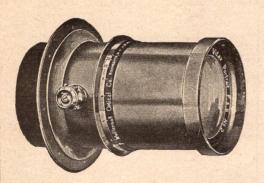
PRICE.

				Lens	Lens
	Size of Pla		Free Di	a. and	Fitted
	Covered wit	h alent	of Large	st Barrel	with
	Stop F-18*	Focus	Lens	with Iris	
No.	Inches	Inches			Volute
	CONTRACTOR OF THE PARTY OF THE	inches	Inches	Diaph'm	Shutter
, 1	41/4 x 61/2	3 %	9-32	\$ 20.00	\$ 37.00
2 3	5 x 7	4 3/8	3/8	20.00	37.00
	61/2 x 81/2	5 9-16	3/8 1/2	25.00	42.00
4	8 x10	7 3-16	9-16		
5	10 x12			31.00	48.00
		8 3/8	11-16	39.00	56.00
6 7	11 x14	10 7-16	13-16	48.00	65.00
	12 x15	125-16	15-16	57.50	74.50
7a	13 x16	15%	1		
8	14 x17	101/		76.00	93.00
9		181/8	1 1	76.00	93.00
	16 x18	24 %	1%	111.50	130.00
10	20 x25	37 5-16	21/8	220.00	240.00

*The next larger plate is well covered with smaller stop.

Wollensak Lenses

VITAX PORTRAIT LENS, F-3.8.



The success of the Vitax for general studio work has been very marked, and it has become the favorite objective of many of the leading workers in this country. Used wide open for head and bust work at the extreme high speed of F-3.8, fast exposures are possible on those dull dark days when a slower lens would be of no value.

By stopping down slightly, and the use of its simplified diffusing adjustment, it can be used for full lengths and group work as this adjustment equalizes the definition.

The diffusing adjustment is simple and effective, the front lens only of the rear system being movable, so that the optical formula is preserved thereby enabling the operator to secure an image with that beautiful roundness and softness both free from wiry definition and objectionable fuzziness.

Herr Duhrkoop of Berlin, Germany, the noted photographer, selected a No. 3 Vitax for use in his demon-

strations at the St. Paul Convention of the Photographers' Association of America in 1911.

The Vitax is handsomely finished in black enamel trimmed with nickel and can be furnished enamel trimmed.

The Vitax is handsomely finished in black enamel trimmed with nickel and can be furnished either in barrel with iris diaphragm and cap or mounted with our Studio shutter.

	Diameter of	Equivalent	bistance, Lens to Sitter, for	Diameter of	Defea
No.	Lens	Focus	2 in Head	Flange	Price
1	3 in.	10 in.	About 6 ft.	5% in.	\$ 70.06
2 .	3 9 -16 in.	13 in.	About 7½ ft.	6½ in.	90.00
3	4 3-16 in.	16 in.	About 9½ ft.	7% in.	125.00

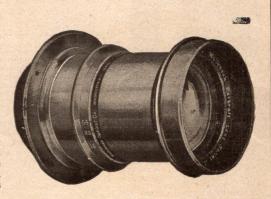
List prices if equipped with Wollensak between the lens Studio shutter Style B: No. 1, \$78.00; No. 2, \$100.00; No. 3, \$137.00.

VESTA PORTRAIT LENS, F-5.

The Vesta was formerly called the Series A Portrait Lens, and as such is giving the best of satisfaction in hundreds of studios, both large and small. We have renamed it without changing its optical construction to make the name coincide with our other lenses.

The Vesta is a moderate priced studio lens fast enough for all ordinary work and equally suitable for busts, standing figures and groups. Negatives made with the Vesta have a snap and sparkle that has made it a favorite with many operators.

The front combination is corrected for use alone, thereby giving the owner really two lenses, but the single combination is considerably slower than the complete lens as it requires stopping down to cover the plate. To use the same, unscrew the rear combination and put the front one in its place. The focus when used in this way is as follows:



No. 1, 9 inches; No. 2, 11; No. 3, 14; No. 4, 17; No. 5, 21.

The Vesta is mounted in polished and lacquered brass barrels with black enamel trimmings, and is supplied with iris diaphragm and cap or can be mounted with our Studio shutter.

No. 1 2 3 4	Size 3½x 4½ 4 x 5 5 x 7 6½x 8½	Diameter of Lens 15% in. 17% in. 21/4 in. 21/2 in.	Equivalent Focus 6 in. 7 in 10 in. 12 in. 14 in	Diameter of Flange 3¼ in. 3¾ in. 4½ in. 5¼ in.	\$1 2 2 2 3	rice 5.00 0.00 5.00 5.00
5	8 x10	3 in.	14 in.	5¼ in.	5	0.00

List prices if equipped with Wollensak between the lens Studio shutter: No. 3, \$32.00; No. 4, \$42.00; No. 5, \$58.00.

GOERZ—DAGOR—SERIES III. SPEED F-6.8. A UNIVERSAL EXTRA RAPID LENS



For Portraits, Groups, Instantaneous Photography, Landscapes, Architecture, Interiors, Enlargements and Wide Angle.

The astigmatism is completely corrected, the result being that, even with full aperture, the image is as sharp at the edge as it is at the center.

The curvature of the field is, within an angle of 72 degrees, eliminated—i. e., that part of the image which is comprised within this angle is absolutely flat. The definition and depth are the same in all parts of the field.

tion and depth are the same in all parts of the field.

The symmetrical arrangement of the two members of the Double Anastigmat has the advantage over the dissymmetrical types of admitting of either half (which has approximately double the focal length of the entire system) being used as a single landscape lens.

being used as a single landscape lens.

The back lens, the focus of which is about the double of that of the entire objective, may, by itself, be used as a landscape lens.

	No.	Equivalent Focus, Inches	Free Aperture, Inches	F-7.7, Inches	F-15.5 Inches	F-62 Inches	Price with Iris		
F-6.8.	0000	15%	1/4	15%x 15%	2 x 2	2 x 23/4	Diaphragm \$34.00		
F-6.8.	000	23/8	3/4	23/8 x 23/8	21/2 X 3	2 % 2 % 2 % X 3 1/2			
F-6.8	00	31	3/8 1/2 5/8 7/8	3 x 3	3½ x 4½	4 x 5	34.00		
F-6.8.	0	43/4	72	31/4 x 41/4			35.50		
			78		4 x 5	43/4 x 61/2	37.50		
F-6.8.	1	6	1/8	4 x 5	43/4 x 61/2	5 x 8	45.00		
F-6.8.	2	7	1	4%x 6½	5 x 8	7 x 9	51.50		
F-6.8.	3	81/4	11/4	5 x 8	6½ x 8½	8 x10	62.50		
F-6.8	4	91/2	15-16	6½x 8½	7 x 9	10 x12	75.50		
F-6.8.	5	103/4	11/2	7 x 9	8 x10	12 x15	91.00		
F-6.8.	6	12	15%	8 x10	10 x12	16 x18	107.00		
F-7.7.	7	14	2	10 x12	12 x15	18 x22	140.00		
F-7.7.	7a	161/2	23/8	11 x14	13 x17	21 x25	182.00	Ibso Shu	utter
F-7.7.	8	19	25/8	12 x15	16 x18	22 x25	219.00		No.
F-7.7.	9	24	3 5-16	16 x18	18 x22	24 x30	325.00	No. 0	\$40.95
F-7.7.	10	30	41/4	18 x22	22 x25	28 x36	539.00	No. 1	47.70
			5	22 x25	24 x30	34 x44	1,070.00	No. 1a	47.50
F-7.7.	11	39	Đ	44 X45	21 X30	01 A11	1,010.00	110. 1a	11.50

GOERZ SYNTOR ANASTIGMAT F-6.8.



The Goerz Syntor double anstigmats are particularly intended for use on hand cameras. They meet the demand for an inexpensive but thoroughly efficient anastigmat. They are only made up to the No. 6 size (12 inches focal length).

The Syntor Lenses are perfectly corrected for spherical, chromatic and astigmatic aberrations; and the single combinations are brought very close together, insuring thereby a most even light distribution over the whole plate. Even at full aperture the Syntor is entirely free from coma and central spherical aberration.

The angle of sharp definition with the largest stop is 64 degrees, increasing to 70 degrees with smaller apertures.

The Syntor consists of two symmetrical uncemented combinations, and each combination can be used singly with a medium or small stop as a valuable landscape lens of approximately double the focal length of the complete objective.

The amateur photographer who wishes an anastigmat lens for his hand camera, but does not care to invest heavily, will find the Syntor a very satisfactory lens. It will cover sharply the size plate for which it is listed.

Although the Goerz Syntor is offered at a comparatively low price, it must not be classed or confused with other cheap lenses, as it represents the same high-grade workmanship necessary to produce our Dagor and Celor Lenses. Its simplified construction is the principal reason that permits its moderate price.

PRICES OF SYNTOR LENSES.

			In Barrel
	Focus.	Size of Plate	With Iris
No.	Inches	at F-6.8.	Diaphragm ·
000a	3	21/4 x 28/4	\$19.80
00	31/2	2½ x 3½	20.70
*0	4 3/4	31/4 x 41/4	23.50
*1	6	1000 A. x 5	27.00
2	7	5 x 7	32.50
3	81/4	5 x 8	45.50
4	91/2	6½ x 8½	54.50
6	12	8 x 10	72.50

Eastman Lenses

EASTMAN PORTRAIT LENS.

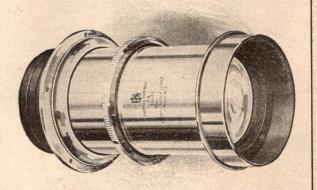
Series A-f.4.

The remarkable speed, 4.f, makes them suitable for the most rapid studio work. Optically, they are corrected in the highest degree, affording brilliancy with softness and roundness. When working on large heads excellent depth and equality of definition are readily obtained by the simple adjusting diffusing back.

Iris diaphragm; the No. 2 will be found the most useful of the series for cabinets and general work up to 8x10, lacquered brass mountings.

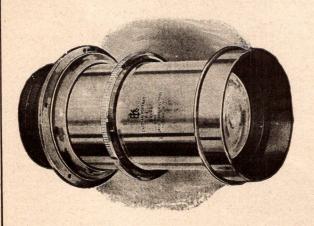
PRICE.

			Diameter, inches	Focus,		
No.	1.	5 x 8	31/2	81/2	12	\$ 60.00
No.		61/4 x 8	1/2 4 1-16	111/2	16	80.00
No.		8 x10	41/2	131/2	19	120.00



EASTMAN PORTRAIT LENS.

Series B-f.5.



Especially designed for quick portraiture in short length operating rooms, and will produce brilliant and well defined negatives.

The series B consists of two systems mounted in a beautifully finished barrel; iris diaphragm, and diffusing adjustment.

For cabinet work the lens may be used at full aperture, and when stopped down provides a most superior lens for group work.

PRICE

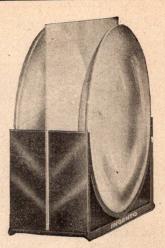
			Diameter,		Back Focus, inches	
No.	1.	5 x 8	inches 2	inches 9	61/2	\$32.00
No.		61/2 x 81	2 21/2 31/4	11½ 15	8½ 11¼	42.00 57.00
No.	3.	8 x10	34	19	1172	01.00

Send for a sample set of our special card mounts and folders.

CONDENSING LENSES.

The condensing lenses listed below are accurately ground and polished, and will be found much superior to the imported lenses commonly employed for this purpose. When condensers are wanted mounted, we supply them in improved mounts which are so constructed that there is the least possible danger of the lenses breaking when heated. The mountings are also very neat and compact.

4½ inches 6½ inches	Unmounted\$1.20	7.20	10 inches	One Lens Pair Unmounted \$10.80 21.60 32.00	Mounted\$25.60 47.20
		19.20			



STEREOSCOPES.



These scopes are carefully tested and can be relied upon to produce perfect stereo effects.

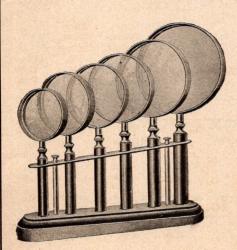
STEREO-GRAPHOSCOPES.

This instrument is made on a new principle by which it can be adjusted either for stereoscopic views or photographs and other pictures by simply reversing the lenses. The Stereo-Graphoscope is practically a Camera Obscurr and will give a clear and beautiful effect on the view, and is far superior to the old style.

Card of instructions with each instrument.

No. 1 cherry frame, large lenses, patent folding handle, figured mahogany hood, brass trimmings. Each, \$1.00.

RETOUCHING OR MAGNIFYING GLASSES.



These lenses are double convex of white glass, and accurately ground to suitable foci for easy handling. They afford a very bright image of moderate magnification, just right for fine retouching. The lens is securely incased in a nickel rim and the handle is of deep ebonized wood.

2	inch	lens\$0	.40
21/2	inch	lens	.60
		lens	
31/2	inch	lens	.15
		lens 1	
41/2	inch	lens 2	.00

REDUCING GLASSES.

SUPPLEMENTARY LENSES, RAY SCREENS AND DUPLICATORS.



THE IDEAL PORTRAIT LENS.

Made especially for portrait work with hand ameras. It increases the working speed 20 to 25

THE IDEAL ENLARGING AND COPY-ING LENS.

Made to use in connection with the ordinary lens, increasing its power for copying at least twice its capacity.

No.	Size	For Camera	Price
	1 15-inch	4x5	\$1.50
1 2 3 4 5	1 is-inch	5x7	1.50
3		meras any size	1.50
4	1 7 inch	4x5	1.50
5	1 76-inch	5 x 7	1.50
6	1½-inch	4 x 5	1.50
	1½-inch	5x7	1.50
0	1¾-inch 2 -inch	anysize	2.00
10			2.50
11	2 ¼ -inch 2 ½ -inch	"	2.75
12	2 3/4 - inch		3.00
6 7 8 9 10 11 11 12 13	3 -inch	"	3.25 3.50
-	o -milli		0.00

INGENTO COLOR FILTER.

SERIES C.



A new departure in Color Filters as radical and as far advanced over the ordinary "adjusted" filter as the dry plate is over the daguerreotype.

This filter is also of great value to commercial photographers in photographing colored packages, labels and furniture, where it is important that the grain of the wood be recorded in the photograph. Every Ray Filter is spectroscopically tested and fully guaranteed.

No. 1, Diam.	1 % in. \$1.25	No. 8,	Diam.	21/2 in.\$	3.00
No. 2, for box		No. 9,		23/4 in.	3.25
eras	1.25	No. 10,		3 in.	
No. 3, Diam.		No. 11,		3 1/4 in.	
No. 4. "	1½ in. 1.50	No. 12.		3½ in.	4.50
No. 5. "	1% in. 2.00	No. 13,	- 44	4 in.	5.25
No. 6. "	2 in. 2.25	No. 14.	••	4 1/2 in.	6.00

INGENTO COLOR FILTER

SERIES A.

Mounted in nickel-plated cells with adjustable springs, and supplied in neat circular plush lined cases, which can be used for a cap when the filter is over the lens.

No.	0,	for No. 3 F. P. K	 \$0.75
No.		Diameter 115 inch	.75
No.		for box cameras	.75
No.	3,	Diameter 17 inch	1.00
No.	4,	Diameter 1½ inch	 1.00
No.	5.	Diameter 1¾ inch	1.25
No.	6,	Diameter 2 inch	1.50
No.		Diameter 21/4 inch	1.75
No.	8,	Diameter 2½ inch	2.00
No.	9,	Diameter 234 inch	2.25
No.	10.	Diameter 3 inch	2.50
No.		Diameter 31/4 inch	3.00
No.	12.	Diameter 3½ inch	3.50
No.	13.	Diameter 4 inch	
No.	14.	Diameter 4½ inch	5.00
		Barton Commercial Commercial Commercial	

THE ROYAL **FOREGROUND** RAY SCREEN.

(Patent applied for) The only Ray Screen ever invented that will give an even, equal exposure to both sky and foreground, and produce a perfect cloud effect instantaneously with ordinary plates.



No. Diam. In. Price	No.	Diam. In.	Price
0	8	21/2	\$3.00
1 $\frac{1}{16}$ 1.50 2 (for box cameras) 1.50	9	23/4	3.25
$3. \dots 1_{16}^{7} 1.50$		3	3.50
4 1 1/2 1.50		31/4	4.00
5		3½	5.25
7 2 1/4 2.50		41/2	6.00

BAUSCH & LOMB SPECIAL RAY FILTER.

This filter is made on the same general design as our Precision Ray Filter, but does not involve the highest grade of glass nor the rigid tests in its production, and it is, therefore, possible for us to offer it at a considerably lower price. The construction, however, is sufficiently accurate to make it quite equal to the ordinary demands of three-color work. The glass plates and ring are not so heavy, but the mounting and adapters are the same.

	PRICE.
No. 3 Special Ray	Filter with adapter\$15.00
No. 4 Special Ray	Filter with adapter 20.00
	No. 3 Filters with one 40.00
	No. 4 Filters with one 55.00

PRICE OF SQUARE FILTERS.

PRICE OF SQUARE ISOCHRON RAY FILTERS.

2x2		\$2.50
3x3		3.75
4x4	4.50	5.25
5x5	5.50	0.20

PRICE OF SQUARE IDEAL RAY FILTERS

	The state of the s
2x2	\$1.75
3x3	2.50
5x5	3.50

THE IRIS "STUDIO" SHUTTER.



This shutter is made specially for use by professional photographers, and is absolutely noiseless, as it has rubber cushions at all points of contact in the mechanism. The Studio Shutter has ten leaves, is constructed on the Iris diaphragm principle. This shutter is is constructed on the Iris diaphragm principle, and is made in two models. Style A being for use behind the lenses, is finished matt black, can be attached to board by screws and has focusing atachment. Style B

has focusing attachment. Style B is a between the lens shutter and is handsomely finished in brass with transparent lacquer. It is made primarily for use with Wollensak portrait lenses as it is only necessary to unscrew the barrel and screw on the shutter in place of the Iris diaphragm, and no special fitting is needed. The shutter itself acts as a diaphragm and can be set at any desired opening and also at full aperture for focusing purposes. Other makes of lenses can be used with the Style B by having them fitted specially.

Style A fits back of any lens without fitting.

PRICE LIST.

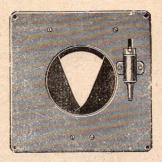
PRICE LIST.

Outside Diam.	Light Open-		will fit t Lenses	Pric	ce
No. eter	ing	as fo		Style A	Style B
In.	In.	Series A	Royal	Shutter	
1 3 1/2	21-16	No. 3		\$ 6.00	\$ 8.00
2 4 1/4	27-16	No. 4		7.00	9.00
2 4 1/4 3 4 7/8	2 15-16	No. 5	No. 1	8.00	10.00
4 5 %	31/2		No. 2	10.00	12.00
5 6 1/8	41/8		No. 3	12.00	14.00

PACKARD—IDEAL SHUTTER NO. 5.

FOR TIME EXPOSURES.

This Shutter has three wings, with the special advantage of a very large opening in a very small shutter. For cameras having small front board it is specially adapted. In construction it is a marvel of simplicity, works easily, lightly and absolutely noiseless in opening. The

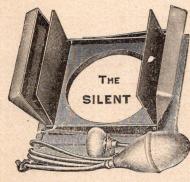


small sizes may be used for time view work. Price includes bulb and tubing.

PRICE.

Dia.	Outside		Dia.	Outside	
Opening	Dim. In.	Price	Opening	Dim. In.	Price
In.	Square	Each	In.	Square	Each
1½	31/4	\$4.00	31/4	6	\$5.00
13'	31/2	4.00	31/2	61/2	5.00
2	4	4.00	33/4	7	5.00
21/4	41/2	4.50	4	71/2	5.50
21/2	43/4	5.00	41/2	8	6.00
23/4	5	5.00	5	81/2	6.50
3	53/4	5.00		in the second	

THE SILENT SHUTTER.



Every photo-grapher who grapher who has experienced repeated ed repeated failures owing to the "click" of his shutter in opening, causing his child subject to look toward the lens at the vital moment of exposure, or of exposure, or some member some group, or an individual sitter to move just at the wrong time will instantly

great value of the Silent Shutter which will enable him to expose while his subject is unconscious of it.

The "Silent" is extremely simple, not likely to get out of order, and the most compact studio shutter made.

The cupped air cushions arrest the wings as they open, avoiding all sound, vibration or cust.

PRICE.

(Including six fo	eet of tubin	ng and "shut-of	f.")
Opening	Each	Opening	Each
2, 21/2 and 3 in., sgl.	wg\$5.00	51/2 in., dbl. wg	\$ 8.10
3, 3 1/2 and 4 in., dbl.	wg 5.00	6 in., dbl. wg	9.00
41/2 in., double win	g 6.00	7 in., dbl. wg	. 10.90
5 in., double win	g 7.00	8 in., dbl. wg	. 11.00
Disks and Bracket.			\$0.25
Bulb and Hose			55

PACKARD—IDEAL SHUTTER NO. 6.

For Time and Instantaneous Exposures.

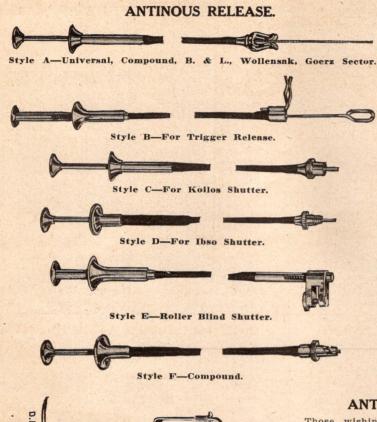
Shutter This the same as the No. 5 with the addition of the instantaneous attachment. It is changed from time to instantaneous exposures by simply pushing in or pulling out a small pin which goes through the front board into the shutter. change is quickly made from the out-



side, and the shutter requires no setting, as it works automatically, setting itself after each exposure without opening the wings, and is always ready.

Price includes bulb and tubing.

Dia.	Outside		Dia	Outside	e. v
Opening	Dim. in.	Price	Opening	Dim. in.	Price
in.	Square	Each	in.	Square	Each
11/2	31/4	\$5.50	31/4	6	\$6.50
13/4	31/2	5.50	31/2	61/2	6.50
2	4	6.00	33/4	7	7.00
21/4	41/2 -	6.00	4	71/2	7.00
21/2	43/4	6.00	41/2	8	8.00
23/4	5	6.50	5	81/2	9.00
3	53/4	6.50			



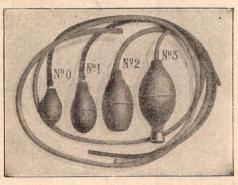
The Antinous Release is a flexible metallic connection, consisting of a series of brass beads held firmly together by a woven flexible cover. Through the center of these beads runs a six-strand steel wire, tested for a strain of 100 pounds and heavily coppered to withstand damp and salt air. The working parts are entirely of metal. no rubber is used in its construction. Its advantages over the oldstyle rubber bulb release are most convincing. It is unaffected by climate or temperature; no perishable materials are used; it does not easily get out of order, and works without vibration. It occupies far less space than a bulb and tubing, cannot pump dust into the shutter. The connection between the hand of the operator and the mechanism of the shutter is practically direct, hence it cannot fail to operate the shutter every time.

The possession of the Antinous Release gives a feeling of confidence that one cannot have when a bulb is used. It is easy to attach and is supplied for all standard makes of shutters.

ANTINOUS EXTENSION.

Those wishing to operate their camera from a distance will find this extension a valuable convenience. It is made same as the Antinous Release; is 16 feet in length and sufficiently strong to operate any shutter.

BULBS AND TUBING.



Our Bulbs and Hose are made of the finest quality pure rubber. They are very elastic and can be fitted to any shutter.

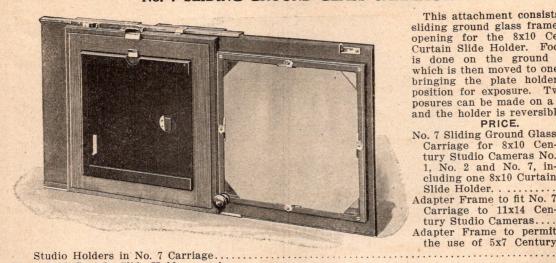
No. 0. For small pocket cameras, 6-inch tubing,

for the largest studio shutters and flash machines, fitted with wooden plug and 5 feet of

RUBBER NIPPLES AND TUBING FOR SHUTTERS AND WASHERS.

No. 1.	Red Rubber Tubing for shutters, per foot	\$0.66
	White Rubber Tubing for studio shutters, per foot	
No. 3.	Rubber Hose for washers, % inch diam., per foot	.10
No. 4.	Rubber Hose for washers, 9-16 inch diam., per foot	.20
Rubber	r Nipple with brass connection, for washers, each	.40

No. 7 SLIDING GROUND GLASS CARRIAGE.



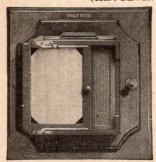
This attachment consists of a sliding ground glass frame with opening for the 8x10 Century Curtain Slide Holder. Focusing is done on the ground glass, which is then moved to one side, bringing the plate holder into position for exposure. Two exposures can be made on a plate, and the holder is reversible.

PRICE. No. 7 Sliding Ground Glass Carriage for 8x10 Century Studio Cameras No. 1, No. 2 and No. 7, including one 8x10 Curtain Adapter Frame to fit No. 7
Carriage to 11-11 tury Studio Cameras... Adapter Frame to permit the use of 5x7 Century 2.00 5.50 Extra 8x10 Curtain Slide Holders, each..... 2.50

INGENTO CABINET ATTACHMENT No. 1.

Extra 5x 7 Curtain Slide Holders, each....

(REVOLVING.)



This attachment This attachment is constructed so that the frame holding the plate holder and ground glass can be instantly revolved and automatically element either in and automatically clamped either in a vertical, horizontal, or oblique position. It takes the place of the reversible back as well as allowing the 5x7 plate

as well as allowing the 5x7 plate to be used to its greatest capacity by bringing the diagonal of the plate perfectly vertical, thus making a longer oval than has heretofore been possible with the 5x7 plates. The ground glass frame is spring actuated and a single holder is supplied fitted with curtain slide. slide.

When the holder is inserted, the slide is automatically connected with the ground glass frame and the slide is drawn by the simple movement of sliding the ground glass frame to the right. These attachments are beautifully made of fine mahogany and polished and will fit any of our 8x10 Portrait Cameras.

Extra Plate Holders with Curtain Slides, each 2.00

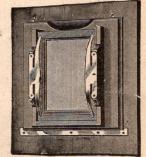
INGENTO CABINET ATTACHMENT

No. 2.

(REVERSIBLE.)

For 8x10 Portrait Cameras.

This attachment, when fitted to any Portrait Camera, allows of the use of small double holders which is a great convenience for regular cabinet work. It can be readily attached to any of our 8x10 Portrait Cameras. It is fitted with a spring-actuated ground glass attachment. The inside frame is reversible, so that either vertical or hori-



zontal negatives can be made with it. It is handsomely made of mahogany and the trimmings are of brass.

Price, with Double Holder.....\$9.00



THE F. & S. LANTERN SLIDE ATTACHMENT.

For Enlarging, Reducing and Copying Cameras.

This attachment is a great convenience in making lantern slides, and is interchangeable with the regular back of the camera. It is fitted with a spring actuated ground glass, which recedes to admit a double Lantern Slide Plate Holder, 3½ x4 inches.

The center of the attachment has oscillating, rising, falling and shifting adjustments which are locked in position by milled head thumb screws. By removing the thumb screw, the center may be reversed for copying vertical negatives, or so placed that the slide may be drawn from the left side.

The F. & S. Lantern Slide Attachment can be fitted to any make of enlarging, reducing or copying camera, if exact dimensions are furnished. To insure perfect adjustment, however, the back of the camera should be sent in for fitting.

The attachment is splendidly made of the finest mahogany, and finished in keeping with the highest grade instruments.

PRICE.

PRICE.

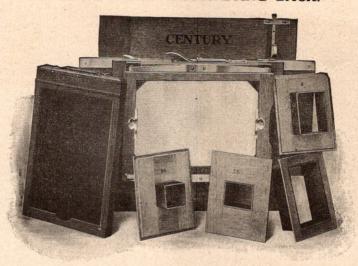
FRICE.

F. & S. Lantern Slide Attachment, 8x10, including one Lantern Slide Plate Holder.

F. & S. Lantern Slide Attachment, 11x14, including one Lantern Slide Plate Holder.

F. & S. Lantern Slide Attachment, 14x17, including one Lantern Slide Plate Holder. .\$12.50

THE CENTURY MULTIPLYING BACK.



With the Century Multiplying Back, a view camera can be converted into a multiplying camera by simply removing the reversing back and placing the multiplying back in position—as easily accomplished as changing the reversing back from a vertical to a horizontal position.

This Back is constructed to give one, two, four, nine, fifteen and twenty-four exposures on a 5x7 plate, and can be instantly adjusted to the Century and Empire State Cameras in the 6½x8½ or 8x10

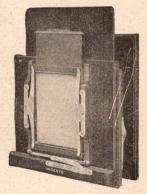
The Century Multiplying Back accommodates the regular 5x7 view plate holder.

In ordering, be sure to specify the style of camera for which the back is intended. When the Century Multiplying Back accommodates the regular 5x7 view plate holder. tury Multiplying Back is ordered for any view camera not mentioned above, a nominal charge will be made for special fitting.

PRICE.

Century Multiplying Back, 61/2x81/2 or 8x10, including one 5x7 Century View

INGENTO MULTIPLYING ATTACH-MENT No. 36.



This attachment is practically the same as the back of our No. 36 Multiplying Camera and is made to fit any of our regular 8x10 Portrait Cameras. It is slipped into place the same as the ground glass frame. It is fitted with a 5x7 Double Plate Holder and the entire 5x7 plate can be exposed at once or by use of the multiplying device from one to forty-two exposures can be made. A full set of kits for making 1, 4, 9, 12, 16, 20, 30 and 42 exposures on a 5x7 plate are supplied.

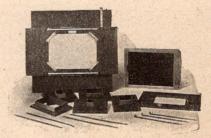
It is made of mahogany, beautifully polished, and the trimmings are of brass, polished and lac-

Price, complete, with one Double Holder....\$13.00

THE KLAY MULTIPLYING PLATE-HOLDER.

Nothing supersedes the Klay Multiplying Plate Holder for this purpose as from two to twentyeight exposures can be made on a 41/4 x61/2 or 5x7 plate, and printed at one time on cabinet size (37/8x5½) paper, and will fit any ordinary 8x10 camera box without alteration, the same as any common holder. One carries a 41/4x61/2 and the other a 5x7 plate—both making the same size and number of exposures.

VIEW CAMERA MULTIPLE BACK.



This is a new improved attachment made to fit on any 8x10 view camera, so that the following number of exposures can be made on a 5x7 plate: 1, 2, 4, 9, 15, 24 or 48.

Price, each. . Extra Double Holder.....

THE STERLING PLATE HOLDER.

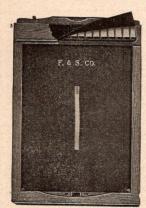
Sterling Double Plate Holders are Plate Holders are absolutely 1 ig ht proof, strong and thoroughly durable. They are fitted with a new sectional cut-off and sliding locks that hold the plate securely in position. The full plate may be exposed excepting 1-16 of an inch at one end. A spring on either side of the septum insures absolute register of the plate.

of the plate.

They are furnished with Sky
Scraper Cameras. PRICE.



THE GRAPHIC PLATE HOLDER.



Graphic Plate Hold-Graphic Plate Holders are made of selected, well-seasoned cherry and fitted with our new finger spring cut-off, which prevents the entrance of light and fogging of plates when drawing or replacing slides.

Springs on either

Springs on either side of the septum keep the plates in absolute register.

absolute register.
Sliding locks do away with the side and end rabbets and allow the full width and length of the plate to be exposed with the exception of less than 1-16 of an inch at one end.
Graphic Plate Hold-

ers are fitted with mat finish slides, of a special material, that will not warp, crack, buckle or collect dust. THE PRICE

					-	-	-		•	-	0,	_	•								
5 x 7.																				\$1.25	
61/2 x 81/2.																		J.		1.75	
8 x10 .																				2.00	

THE GRAFLEX PLATE HOLDER.



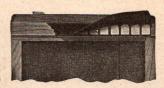
The Graflex Holder, for Graf-lex Cameras, is simple, strong, practical and ab-solutely light proof.

It is constructed It is constructed of we il-seasoned cherry, handsomely finished in black and fitted with new finger spring cut-off, which excludes all light and prevents light and prevents fogging of plates when drawing or replacing slides.

The Holder is The Holder is grooved, instead of tongued, affording increased thickness and strength without increase of space occupied.

		PRICE.	
3 1/4 x 4 1/4.	 		 \$2.50
4 x5 .	 		 2.50
5 x7 .	 		 3.50

PREMO PLATE HOLDER.



For twenty years the superiority of the Premo Plate Holders has been conceded. In connection with the convenience of the spring-bar device for loading and unloading, an additional improvement is now incorporated in their manufacture which consists of a very flexible and resilient light trap, constructed of finely tempered non-corrosive metal, with independently operating spring fingers overlaid with a closely woven, specially prepared fabric. The fingers bring this fabric into such close and immediate contact with the shutter cover that a slide can be inserted cornerwise without admitting light to the plate.

Premo Holders are always fitted with hard rubber slides.

slides.

	PRICE.	
3 \(\frac{1}{4} \) x 4 \(\frac{1}{4} \)	. 1.00 6½ x 8½	\$1.25 1.75 2.00

UNIVERSAL PLATE HOLDER.

This holder is made for Empire State and Premo

This holder is made for Empire State and Fremo View Cameras.

The Universal Plate Holder has the spring-bar device for loading and unloading, and is also supplied with a new light trap which permits of the slide being inserted cornerwise without admitting light to the plate.

Universal Plate Holders are supplied with press poord slides.

board slides.

- PRICE.													
5 x	7						.\$1.00	11x14\$4.00					
6 1/2 X	81/2						. 1.10	14x17 5.00					
8 x	10						. 1.25						

R. O. C. VIEW PLATE HOLDER.

This holder is of good construction and is for use only in the R. O. C. View Camera. It has press board slides.

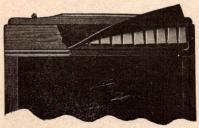
	PRICE.																	
5	x7									\$1.00	8x10				 	 	.\$1.25	,
										1.10								

R. O. C. POST CARD HOLDERS.

3 1/4 x 4 1/4,	3 1/4 x 5 1/2	or	4x5.	 	 	\$0.50
5x7				 	 	70

CENTURY VIEW PLATE HOLDER

Century Plate Hold-ers are made ers are made througho u t of hard wood, all joints dove-tailed and fitted with a light-exa light-ex-cluding cut-off, which prevents light pass-ing through the narrow



the narrow opening when the slide is inserted or withdrawn. This device is flexible, allowing the operator to insert the slide in the plate holder cornerwise without danger of fogging the plate.

All Century Holders are fitted with special rubber slides, experience having demonstrated their superiority over all others. Century Holder Slides will not electrify and cause fog; will not collect dust; will not crack or split. It is impossible to avoid these conditions with hard rubber.

PRICE.

5 x7																		\$1.00
6½ x8½.																		
8x10																		

EASTMAN PLATE HOLDERS.

Single Holders for			
Double Holders for			each. 1.00
Double Holders for			
Double Holders for	glass plates,	5 x7,	each. 1.25

INGENTO DISSOLVING CARRIER.

For Single Stereopticons.



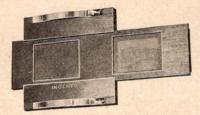
This Carrier is especially designed to secure a dissolving effect with single stereopticons. Its operation is simple and rapid. The slide is dropped into the slot at top of the Carrier and pushed into place by means of the lever. When the next slide is to be inserted, while the former slide is still projected on the screen, the same operation of the lever carries the

second slide into place in front of the other slide. The lever is pulled back, which immediately withdraws the first slide, and the second slide is pushed into optical position by means of the springs. The complete operation of changing the slides is done in the fraction of a second and the dissolving effect is produced on the screen by the operation almost equal to that of a double stereopticon.

This Carrier is made in two styles. Style No. 1 is made entirely of brass and handsomely nickel-plated. Style No. 2 is made of polished mahogany with nickel trimmings. They measure 11½ inches long and 4 inches high. The No. 1 is the same width as the ordinary carrier-frame, while the No. 2 is about one-eighth inch wider.

No. 1.....\$3.50 No. 2.....\$2.00

LANTERN SLIDE ADAPTER.



By means of this adapter any of our 4x5 or 5x7 Enlarging Lanterns can be converted into a stereopticon, doubling the usefulness and value of the lantern. The adapter is made of thoroughly seasoned hardwood.

PRICE.

No.	1.	For	4x5	Lanterns\$1.50
No.	2.	For	5x7	Lanterns 1.50

IDEAL LANTERN SLIDE FRAME.



This frame is made to hold negatives any size from $3\frac{1}{4}x4\frac{1}{4}$ to 5x7. The opening in the frame is exactly Lantern Slide size.

The negative is adjusted with the part desired over the opening. The Lantern Slide plate is then put in contact from the back and held with a regular printing-frame pressure board. The exposure is afterward made in the regular manner. This frame will enable the operator to work with speed and accuracy and without waste of plates.

LANTERN SLIDE BOXES



These boxes are made of hardwood, antique finish. Cardboard partitions separate the slides to insure safety, and at the same time offering great compactness. This is the most handsome and efficient Lantern Slide Box made. Each box contains a nu-

merical index for ready reference.

PRICE.

No.	1.	To	hold	60	slides\$1.25
No.	2.	То	hold	120	slides 2.00

INGENTO LANTERN SLIDE VISE.

(Revolving.)

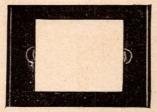
By the use of this vise the mat is held in close contact with the lantern slide and cover glass, thus leaving both hands free to manipulate the binding strip. When the slide is clamped between the rubber discs, it may be revolved to facilitate the operation of binding.

This vise can be used as a copying-stand. The photograph or picture to be copied can be clamped at any angle and placed in



INSIDE DRY PLATE KITS.

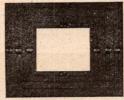
Kits consist of thin wooden frames, made to fit in the Dry Plate Holder, and with rabbets for holding smaller plates.



	Size Outside	For Plates	Each
	4 x 5	3 1/4 x 4 1/4, 3 1/4 x 4	\$0.20
	4 1/4 x 6 1/2	3 1/4 x 4 1/4, 3 1/4 x 5 1/2	.20
	5 x 7	3 1/4 x 4 1/4, 4 x 5, 3 1/4 x 5 1/2	.25
	5 x 8	3 1/4 x 4 1/4, 4 x 5 or 4 1/4 x 6 1/2	.30
	6½x 8½	4x5, 41/4 x61/2, 5x7 or 5x8	.30
	8 x10	4 1/4 x 6 1/2, 5 x 7, 5 x 8 or 6 1/2 x 8 1/2	.40
	10 x12	5x7, 5x8, 6½x8½ or 8x10	.50
1	11 x14	8x10 or 10x12	.50
	14 x17	8x10, 10x12 or 11x14	.80
	17 x20	11x14 or 14x17	.80
	18 x22	14x17 or 17x20	1.25

F. & S. SPECIAL KITS.

Our Special Kits are F. & S. quality and in keeping with the high standard always maintained in our products. They are carefully made, neatly finished in dead black, and of correct size to nest perfectly.



PRICE.

4	x 5	to	take	31/4 x	41/4	plates,	each	\$0.50
5	x 7	to	take	4 x	5	plates,	each	.60
6	1/2 x 8 1/2	to	take	5 x	7	plates,	each	.70
8	x10	to	take	6 1/2 x	81/2	plates,	each	.80
11	x14	to	take	8 x1	0	plates,	each	1.00
14	x17	to	take	11 x1	4	plates,	each	1.50
11	x14	to	take	8 x1	0	plates,	each	1.00

FRONT BOARDS FOR PORTRAIT CAMERAS.

Size, Inches	Black	Mahogany
6x 6	\$0.40	\$0.75
7x 7	.50	.75
8x 8	.65	1.00
9x 9	.75	1.00
10x10	.90	1.50
12x12	1.00	2.00
14x14	1.20	2.40
15x15	1.25	2.50
Fractional size	es priced at next	higher even size.

FRONT BOARDS FOR VIEW CAMERAS.

R. O. C. View, up to 8x10\$0.50
R. O. C. View, larger
Empire State, up to 8x10
Empire State, larger
Century View Cameras, up to 8x10
Century View Cameras, 11x14
Sky Scraper, 8x10
Sky Scraper, 11x14
F. & S. Cameras, 8x10 1.00
F. & S. Cameras, 11x14
F. & S. Cameras, 14x17 1.50
F. & S. Cameras, 18x22
Hand Cameras, 4x5
Hand Cameras, 5x7
Hand Cameras, 6½x8½
Hand Cameras, 8x10

WOODEN HOLDER SLIDES.

FOR PORTRAIT OUTFITS.

For Plate Camera	Price	For Plate Camera		Price
1/4	\$0.70	Cincinnati		
4½ x6½	35	10x12		. 1.25
4½x6½	35	11x15		. 1.60
	40	14x17		. 2.00
	40	17x20		. 2.50
	45	18x22		. 2.75
8x10		20x24		. 3.25
For rubber	slides, add 40	per cent to	above p	rices.

SLIDES FOR DOUBLE HOLDERS.

Extra slides for any of our holders will be supplied when desired, in either hard rubber or pressboard, at following prices:

	Pr	ice—		Pr	ice-
Size	board	Hard	Size		Hard rubber
3 1/4 x 4 1/4 .	\$0.10	\$0.20	6½x8½		
	15	.25	8 x10	35	.65
5 x7 .	20	.35	11 x14	50	1.00

SPECIAL PLATE HOLDER SLIDES.

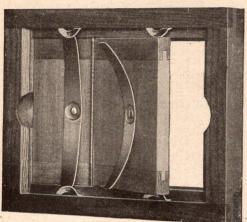
Made of specially selected or split, electrify or collect	
5 x7\$0.35 6½ x8½	8x10\$0.55
Slides for Sterling Holder	
8x10\$0.65	11x14\$1.50

CAMERA BELLOWS.

Extra b	ellows will be supplied for cameras w	hen
desired, a	t the following prices:	
5 x 7.		4.00
5 x 7		4.50
61/2 x 81/2		5.00
8 x10	Century View Camera No. 1 or No. 2	6.00
11 x14		8.00
5 x 7		3.00
6 1/2 x 8 1/2	R. O. C. View Camera	4.00
8 x10	D 0 0 0 0 0 0	5.00
5 x 7		4.00
61/2 x 81/2		5.00
8 x10		6.00
11 x14	7	8.00
14 x17		0.00
61/2 x 81/2		7.00
8 x10 1		8.00
8 x10		7.00
11 x14	C1	9.00
8 x10		7.00
11 x14	Century Grand Portrait Camera, per	
	set 14	4.06
8 x10		6.00
11 x14		2.00
8 x10		6.00
8 x10	Century Studio Camera No. 4	6.00
5 x 7	Century Studio Camera No. 5	3.00
5 x 7 8 x10		4.00
11 x14	Graphic E. and R. Camera	5.Q0 9.00
61/2 x 81/2	R. B. Cycle Graphic Camera	3.00
5 x 7 . 8 x10	R. B. Cycle Graphic Camera	6.00
5 x 7		5.00
61/2 x 81/2	Century, Model 46	5.00
5 x 7 6½ x 8½	Century Grand Senior.	6.00
5 x 7	Pony Premo No 0	8.00 4.00
61/2 x 81/2		5.00
5 x 7	Pony Premo No. 10	4.00
6½x 8½	Pony Premo No. 10	5.00
Stereo Div	vision on Roller for Stereo Cameras,	
5x7 si		1.50
Camer	ras. 64 v816 size	1.00
Stereo Di	vision pleated for 614 + 814 Stores	.00
Camer	as, 8x10 size	.25

Printing Frames

CENTURY PRINTING FRAMES.



Century Printing Frames are constructed of thoroughly seasoned hardwood and are lock jointed at the corners, making them exceptionally strong and durable. The back is joined by a light-tight piano hinge running the entire width. The back springs are made of heavily plated tempered steel. The clips for engaging the ends of the back springs come flush with the frame, permitting the frames to be stacked evenly, facilitates the handling and will not tear tissue vignettes. The edges and corners are nicely rounded.

Century Printing Frames in sizes larger than 8x10 are furnished with butt hinges in place of the piano hinge. Frames up to and including the 8x10 size are supplied with the two-third opening back. Larger sizes are hinged in the center, giving the one-half opening back.

PRICE.

		PRICE.
Century	Printing	Frame, 4x5\$0.45
Century	Printing	Frame, $4\frac{1}{4} \times 6\frac{1}{4}$. 50
Century	Printing	Frame, $4\% \times 6\%$
Century	Printing	Frame, 5x7
Century	Printing	Frame, 6½x8½
.\$0.75	Century	Printing Frame, 14x17\$2.75
. 1.25	Century	Printing Frame, 16x203.50
. 1.80	Century	Printing Frame, 18x22 4.00

CIRKUT PRINTING FRAMES.

Cirkut Printing Frames are substantially made and are supplied in the following sizes:

				TH																		
8	in.	X	4	ft.				 												\$ 7.	.5	0
	in.																					
10	in.	X	4	ft.				 												8.	.0	0
10	in.	X	6	ft.				 												12.	0	0
16	in.	X	6	ft.				 												20.	.0	0



16 in. x 10 ft. 25.00

SWIVEL PRINTING FRAME.



The Swivel Printing Frame is a new device for use in printing Velox or other Gas Light Papers. In large printing departments this apparatus will save its cost many times over, as it enables four operators to print at one light, without the loss of time.

After the frame is loaded it is swung over parallel to the light for exposure,

This Swivel Printing Frame for quick work is much superior to the ordinary printing frame. No fogged paper, no slipping of mask, paper or negative, and the free use of both hands with the negative tilted at any angle when special printing or developing is necessary.

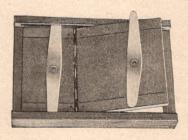
Made	in	tr	re	e	1	SÍ.	ze	S										
8x 8																	\$3.0	0
10x10																		
11x14.			-														5.0	0

PANOGRAMIC PRINTING FRAMES.

5x12	7x17	8x20	12x20
\$1.25	\$2.25	\$2.50	\$3.00

AMATEUR PRINTING FRAMES.

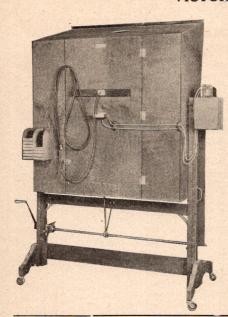
(PIANO HINGE)



Is the highest grade of light frame made; has a steel countersunk piano hinge clear across, making it very durable and giving it a neat appearance. Greatly superior in every respect to any other amateur frame on the market. Made only in the following sizes:

3½x3½	0.25
3½ x4½.	
3½ x5½ for plates	
35/8x6 for 31/4x51/2 films	
4x5	
4¼x4¼	.25
5x7	.35

VICTOR STUDIO FLASH CABINET.



For making the very highest grade of negatives. Of busts, half lengths, full lengths, or groups. In plain lighting, Rembrandt lighting, line lighting or any other lighting. Also Autocnromes, of the very linest quality. Works at midnight, as well as mid-day, instantaneously. The electric lights enable you to see, and by screening, etc., to control absolutely the light effects, or modeling, which the flash produces. Economize. Stop exposure failures by moves, expressions lost, etc.

Supplied with jump spark system of electric ignition, which we confidently recommend as the BEST, most convenient and the most economical of any form of ignition. It is more rapid and convenient to operate, because there are no fuses to insert for each flash; you simply put the powder in place. There is no expense connected with the operation of this system for an indefinite period, except the renewal of the chemical batteries about once in ten months, at an expense of \$1.50, and they can be procured from your local electrician.

This system is operated by the pressure of the same bulb which operates the lens shutter. And with it we include twelve porcelain flash pans, and a rack for carrying them on the back of the cabinet. The powder can be placed in these at leisure. It then requires but three to five seconds to put in a fresh charge of powder, after having made an exposure.

PRICE.

THE PORTABLE SKYLIGHT.

The Shoberg "Portable Skylight" Is Fast Attracting the Attention of the Entire Photographic World. The Shoberg Portable Skylight has been the sensation of all the hig conventions in the part of the sensation of all the part of the sensation of all the highest part of the sensation of the sensation of the Entire Photographic World.

The Shoberg Portable Skylight has been the sensation of all the big conventions in the past few years, proving that it has no equal. It has been used for demonstrating color photography at all of them, because it requires only one-third the amount of flash powder required by other machines, and produces better results—shows no "flashlight" effect. The light is reflected by the specially prepared rubberized reflecting cloth, in one direction, soft and evenly from an area of 1,728 square inches. The amount of powder required is so small that there is practically no noise. Better average negatives are obtained than under the studio skylight. The Portable Skylight is distinguished in appearance, gratify-

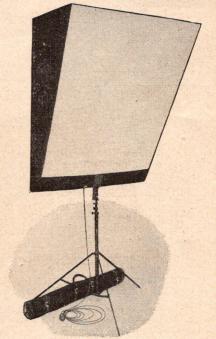
The Portable Skylight is distinguished in appearance, gratifying in workmanship and results. The new model has no equal and is most pleasing to the owner; he does not have disappointments on account of dark days and late hours; he is equipped to do perfect work at all times—not alone in one studio, but in the homes, and can also establish himself in the neighboring cities. The Portable Skylight has brought home photography here to stay.

Although the Shoberg Portable Skylight of 1912 proved almost

Although the Shoberg Portable Skylight of 1912 proved almost perfect, you will find various improvements in the new model, at a very small additional cost to the photographer. The main improvement has been made with the flash pan, but other important changes have been made.

THE FLASH PAN

Is one cf the most essential features of flashlight apparatus and is often looked at by flashlight workers as a weak, troublesome and dangerous contrivance to handle. This has entirely been overcome with the new Shoberg model. The pan, which is made of aluminum, is light, durable and will neither rust nor burn out; ignition is made by means of sparking metal; the friction wheel is protected—powder cannot feed between sparking metal and friction wheel, causing missfiring. The complete works and release are inclosed in neat cover, and the only means by which ignition can be made is by squeezing the rubber bulb, which also operates the camera.



With a small tension lever on flash pan the flash is regulated so it will work in perfect unison with any shutter. The release is so perfect that two or three flash pans can be connected to work together with the shutter on camera for large groups, where more than one Portable Skylight is required for perfect illumination.

 PRICE.

 Portable Skylight Complete (without prooflights.
 \$35.00

 Portable Skylight wired for two prooflights, extra.
 2.00

 Flash Pan.
 7.50

 Stand.
 10.00

 Hood Spreader and Tilter.
 7.50

 Hood Cemplete with top and bottom cross bars.
 12.00

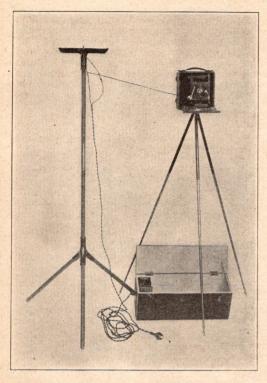
 Carrying Case.
 3.00

 Portable Reflector Complete with stand.
 12.00

 Portable Reflector without stand.
 8.50

 Portable Reflector Stand.
 3.50

NESBIT HIGH SPEED FLASHLIGHT APPARATUS.



Indoor Type High-Speed Flashlight utfit, showing connection to Camera

For noiseless operation and reliability, this lamp has no equal. It is, therefore, well adapted for photographing children, etc. There are three types of Nesbit High Speed Flashlight Apparatus, viz.: The Automatic Outdoor, General Outdoor and the Indoor type.

All three types of apparatus employ the same general principle of operation, that is, the energy liberated by the exploding powder is utilized to trip the shutter. With this method, the shutter cannot possibly fail to operate at the instant the light from the fiash reaches its maximum brilliancy. For detail information relative to the operation and construction of these three types of lamp, ask for booklets.

PRICES.

Indoor Type, Outfit Complete\$ 25	2.50
General Outdoor Type, Complete 2-	4.00
Automatic Moisture-Proof Camera and Outfit Complete	5.00
Automatic Moisture-Proof Camera and Outfit, without Camera	0.00

NICHOLS' PORTRAIT FLASH LAMP.

A Flash Lamp especially for portraiture, and at the same time best and simplest for general purposes.

Any style and any effect in lighting produced anywhere Free from danger; light, compact and portable, requiring

neither gas, gasoline or electricity for operation.

Being instantaneous in action, it is of the greatest value for groups, baby pictures, large study negatives or portraits at home. Produces the greatest volume of light with the least amount of powder.

GENERAL DESCRIPTION.

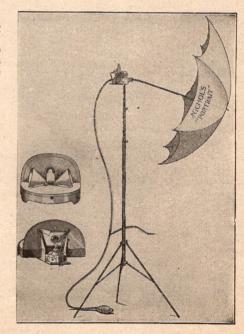
The Lamp. Made of galvanized iron and brass, so arranged that it screws on the standard like a camera on the tripod. Weight complete less than 10 lbs.

The Standard. The rigidity and compactness of the standard is a feature of the outfit. It is collapsible and light in weight. It has an extreme elevation of 13½ feet and folds up compactly, making a package but 3 feet long.

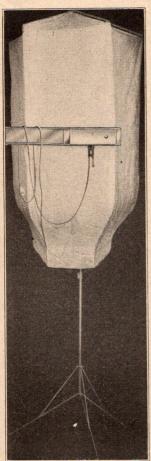
Cost of Operating. A cabinet negative can be made for less than 2 cents.

PRICE.

Nichols' "Portrait" Flash Lamp, complete	\$15.00
Lamp only	7.50
Folding Umbrella Screen	1.50
Folding Standard	6.00
Two Imitation Morocco Carrying Cases, full nickel- plated trimmings, arranged to carry the complete outfit, together with extra tubing, powder, etc.,	
extra.	6.00



THE VICTOR PORTABLE FLASH LAMP. A Light Diffusing and Smoke Confining Device.



For making Flash Lights without smoke, and with broad, soft, skylight effects of lighting, thus removing the last objection to flash light work.

Untold numbers of people are ready and eager to order "Home" Portraits, interiors of parlors and other rooms, family groups, social gatherings, clubs, associations, etc., as soon as they learn that the work can be done successfully, and without smoke, all of which is easily accomplished with this device.

It consists of a collapsible and folding enclosure of semi-transparent and fire-proof fabric, the front of which is four by six feet, which serves to diffuse and spread the light from the flash as well as to confine the smoke. This is detachably supported by a stand, the center column of which is composed of telescopic steel tubing, with folding legs at the bottom and a stud within the top of the collapsible bag which may be slipped into the top of the supporting stand. This allows the supporting column to run through the center of the bag.

The lamp is supported by sliding it into a metal frame, which forms an opening in the back of the fabric. When the lamp is withdrawn the opening is automatically closed. The lamp is of a new and novel construction, which throws the flame forward toward the center of the enclosure, and the charge is fired by pressure upon a pneumatic bulb.

By substituting a bicycle foot pump for the pneumatic bulb, as many as six lamps may be operated simultaneously with the cap firing attachment. We consider this device the most reliable igniting device for series of bags at present on the market, and has been used with great success. It has the advantage of doing away with the uncertainty of electrical connections, and failure of current, which is of such annoyance when the electrical device is used.

After a flash has been made the enclosure may be detached, carried out of doors, and emptied of smoke, or the bottom may be closed and left standing for an hour, when the smoke will have become concentrated into a white dust, which has fallen to the bottom.

This invention marks the longest step forward which has ever been made in artificial actinic lighting. It is complete, compact, perfect and effective. The whole (which may also contain a tripod and other necessities), packs into a carrying case 6x6x39 inches in size, and weighs 18 lbs. Price complete with cap igniter, including 4 boxes of Victor Flash

PROSCH SMOKELESS FLASH BAG.

The Prosch Smokeless Flash Bag is composed of a collapsible framework covered with a white muslin, which, when set up, is five feet long and three feet in diameter. The illustration shows the construction of the collapsible frame which is the same top and bottom.

The lamp is made for use with either Prosch envelope flash Cartridges or loose powder.

The cartridge or loose powder is set off by an electrical current. Any number of bags can be used in series for the photographing of large banquets, halls, etc.

The bag can either be set up on a tripod or hung up by a ring at the top. An extension rod is supplied by means of which the bag can be raised to a considerable height.

The Prosch Smokeless Flash Bag is made in two styles, "A" and "B." Style "B" opens at the bottom and has a special framework which is also collapsible, but is simply supplied with a ring at top so that it can be hung up; in style "B" bag, the lamp is suspended by chains from the top in the center of the bag. Style "A" will be sent unless otherwise ordered.



Portrait Outfit, consisting of one Flash Bag, one Cartridge Lamp, one Switch Board with wiring, Bulb	
and Tubing and Stand Rod, complete, ready for use	
Group Outfit, consisting of two complete Portrait Outfits, but only one Switch Board 32.50	
Extra Units, consisting of Portrait Outfit without Switch Board	
Prosch Current Tester, a device for testing the electrical connections, including the Envelope	
Cartridges, to insure success before exposure is made	
Evtra Switch Poard	

NEW STYLE PROSCHLITE

Introduced Jan. 1, 1914.

Just at the time of publication of this catalog the Prosch Mfg. Co. announce a list of new Prosch Lights. They are far superior to the old style which has always been recognized as the standard. With the many new and improved features shown in the new Prosch Lights they cannot help but satisfy the most critical.

The main features embodied in these lamps are namely:

Absolutely impossible to clog.
 The storing chamber of each style is fully three times as large as the corresponding old style lamp.

3. The flames in wick chamber entirely surround slot from which powder flows thereby causing all magnesium to ignite and causing no waste of powder.

4. The lamp is of such simple construction that all parts can be separated and kept clean.



No. L. Proschlite—small professional size.

No. 4 is one No. L lamp mounted on a base with

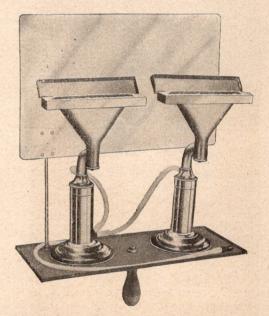


No. P. Proschlite—large professional.

No. 5 is one No. P mounted on a base with reflector.



No. 1 and 2, Amateur Proschlite. No. 3 is two of above style mounted on a base with reflector.



No. 6. Proschlite—composed of 2 Style P lamps mounted on a base with reflector. May be obtained in skeleton style, i. e., mounted on a cross bar with individual reflector for each lamp.

In addition to above new style lamps the regular line of old Prosch Lamps is still on the market. In ordering specify old style or new style.

3:
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No. 4. NEW Style	10.00
This lamp is made from Style L. mounted base with reflector.	on a
No. 5. NEW Style	15.00
This lamp is made from Style P, mounted base with reflector.	on a
No. 6. NEW Style	20.00
Composed of two Style P, mounted on a with reflector.	

AUTOMATIC DEPENDABLE FLASH LAMP.



It ignites the powder by means of a paper cap, but unlike others, it is impossible for the cap to get out of position for firing, after be-

ing properly placed.

Furthermore, it is self setting, hence should the cap fail to ignite at the first stroke (which very rarely occurs), a second pull on the ring can be made instantly, without any time or trouble for resetting the trigger.

They are made of strong sheet steel, and the highest grade of materials procurable, with detached handles, and are packed in neat and strong pasteboard boxes. The No. 1 size is 1½x15½x12 inches, and is easily carried in a coat pocket. The No. 2 size is correspondingly larger.

PRICE.

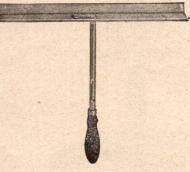
No.	1.	10-inch,	with	box	of	caps\$0.75
No.	2.	15-inch,	with	box	of	cans 1.25



PRICE.

			TIOL.			
Regula	ar Hand	Lamp.	Will	take al	sized	
cart	ridges i	f leathe	rette h	and sh	ield is	
used					\$0).75
Extens	sion Fold	ling Han	dle Lar	nn		25

INGENTO FLASH PAN.



This is the latest device for flash light work. It is simple and practical. There are only two parts — the pan proper and the handle. The pan is fitted with retaining straps for the use of either

paper caps or ordinary parlor matches. The handle contains a strong spring trigger. The flash is made by releasing the trigger, which fires the cap or match, instantly igniting the powder. The pan of the No. 1 is 12 inches long and 2½ inches wide, the pan of the No. 2 is 15 inches long and 3 inches wide. It is a safe, efficient and compact pan.

PRICE.

No.	1	Ingento	Flash	Pan\$0.50
No.	2	Ingento	Flash	Pan 1.00

AGFA FLASH LAMP

Improved Model.

The Agfa Flash Lamp is of new construction, requiring no fuse, cap or match. It is ignited by a spark-giving metal, a toothed wheel revolving against it and producing a stream of sparks. The wheel is operated by hand, wire, or pneumatic release.

The Agfa Flash Lamp is of new construction, ready for use and is not affected by damp or climatic conditions. Small in size, beautifully finished in nickeled metal, and strongly made. May be carried in the pocket.



PRICE.	
Agfa Improved Flash Lamp\$2	.75
Stand and Wire Release 1	.50
Sparking Metal	.25
Stand and Pneumatic Release	

INGENTO FLASH LAMP

(Electric)

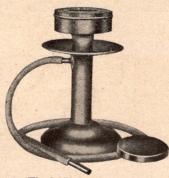
A perfect self-contained electric flash lamp. Always ready. The fuse is part of the lamp itself, so it cannot get lost or misplaced, being wound on a spool concealed in the battery chest. The protruding end of the fuse is simply placed on the contact plates, a spring holding it in position. The flash is sure and instantaneous. Adjusted in three seconds. It folds into a space $2\frac{1}{2}x2\frac{1}{2}x8\frac{1}{2}$ inches.

Price, \$2.50.

Thumb Contact	Attachment,	enabling	the
operator to hold	and operate	the lamp	with
one hand, extra			\$0.25

CROWN FLASH LAMP.

For Pure Magnesium Only.



The Crown Flash Lamp is so constructed that the magnesium powder is stored in the body of the lamp and blown up through the center of flame, thoroughly consuming it and producing a powerful light. The head of lamp is filled with lamp-wick, saturated with alcohol. This gives a large flame, which is very essential in a perfect flash lamp. The head of lamp is removable in order to fill the magazine with magnesium powder. A safety disc is provided, to protect the hand when using the lamp. Tube and mouth pieces are also furnished.

The double spreader will not clog up and is more powerful than any other lamp of double its cost now on the market. Long or short flashes can be made.

cost now on the market. Long or snort nasnes can be made.

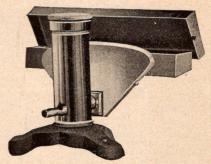
The Crown is the perfection of flash lamps, being safe, economical and reliable. It is finished in polished nickel and presents a very handsome appearance. This lamp is intended for use with pure magnesium only, and explosive flash-powder of any kind must not be used with it.

PRICE.

Crown Flash Lamp......\$1.50

PROSCH LIGHTNING FLASH LAMP.

For Pure Magnesium Only.



No. L and P. Proschlites.

The storage chamber of this lamp has a capacity of 100 grs, of magnesium and an extension chamber for additional power may be attached. It gives a vertical sheet of flame from 100 to 500 square inches, which can be prolonged for 10 seconds. It creates no noise and very little smoke.

		1	P	R	I	C		C												
Complete													. ,					\$4.50	0	
Storage extension						•	•			•								.60	0	

PROSCH PROFESSIONAL MAGNESIUM LAMP.

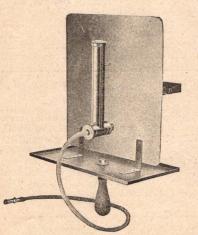
This lamp is made on the same principle as the Lightning, but is twice its size with four times its

Complete,	as descr	ibed		 				 	. 9	\$9.0	00
Extension	storage	cnamber		 				 			75

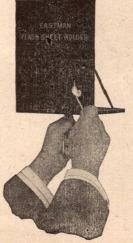
PROSCH MAGNESIUM FLASH LAMPS.

For Pure Magnesium. THE PROSCHLITES.

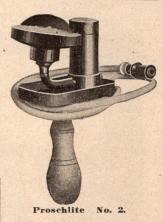
The Proschlites represents a series of seven of the latest improved mag-



Proschlites Nos. 4 and 5.



Igniting Flash Sheet from the back.



EASTMAN FLASH SHEET HOLDER.

Eastman Eastman Flash Sheets are unques-tionably the safest self-burning flash medium on the mar-ket. The Eastman Flash Sheet Holder makes them still safer makes safer.

PRICE.

Eastman Flash Sheet Holder. \$1.00

VICTOR FLASH POWDER.



Victor is well and favorably known to the users of flash powders.

It has great illuminating power, and gives minimum of smoke and report.

It is a very satisfactory powder for all classes of work.

for all classes of work.

Victor Flash Powder is made in three grades; "Soft," which produces only about one-fourth the smoke and concussion of the other grades and gives a stronger illumination, but when used in quantities of over 15 grains is rather slow; "Normal" for general work, large groups, banquets, etc., and "Extra Fast" for use where great speed is required.

Prices of Victor Flash Powder.

NICHOLS "PORTRAIT" FLASH POWDER.



This powder is wonderfully actinic and just the right speed to get the best results in portrait work. It leaves no residue on the floor or carpet and works well in any open lamp.

PRICE.

Per box					 						 . 9	0.30	
Four boxes i	nc	arto	n.		 							1.00	

NICHOLS UNIVERSAL FLASH POWDER.

This compound is adapted to a wide range of work, such as portraits, groups, interiors and home portraiture. It is dustless, odorless and as free from smoke as possible. A great light producer; burns instantaneously,

PRICE. \$0.25
Per box. \$0.25
Five boxes in carton 1.00



LUXO FLASH-LIGHT POWDER.

We are Western agents for this celebrated flash-light powder, which we strongly recommend. Luxo is a magnesium flash powder which is very easily ignited, and is a great actinic powder, producing very little smoke and being almost noiseless.

It is put up in one and fourounce wooden boxes. Owing to the danger incident to handling flash-light powder, Luxo is not put up in larger packages than four ounces,

PRICE.

1-ounce	boxes.						\$0.30
4-ounce	boxes.						1.00

PAPER CAPS.

ACTINO FLASH CARTRIDGES.

The Actino cartridge is made with Victor powder and is unequalled in respect to the convenience and certainty of ignition. Each cartridge is provided with a reliable fuse. Their chief point of superiority lies in the fact that they produce sufficient light to insure "fully timed negatives."



PRICE.

				FRICE.			
No.	12. Box	of	six	Cartridges	(for	12-foot	
	room).,					\$	0.25
No.	18. Box	of	six	Cartridges	(for	18-foot	
	room).						.40
No.	30. Box	of	six	Cartridges	(for	30-foot	
	room)						.50
1-150100				The second second	The same of	The second second	NAME OF STREET

CAYWOOD CARTRIDGES.

No.		Portrait Special, one empty shell and
	six	packets of powder\$0.20
No.	1.	Two-inch Cartridges, per box of six30
No.	2.	Three-inch Cartridges, per box of six50
No.	3.	Four-inch Cartridges, per box of six70
No.	4.	Six-inch Cartridges, per box of three60
Spa	rkir	ng Metal, per box of six

PROSCH ELECTRIC ENVELOPE CART-RIDGES AND FLASH BAG POWDER.

EASTMAN'S FLASH SHEETS.

"Most Like Daylight."

The softest, cleanest flash medium, giving a broad, soft light. As these sheets are not instantaneous, they give the effect of a short time exposure under a slightly subdued light—not the glare of the ordinary flash-powder. They do not startle the subject, nor give a staring effect to the eves.

No. 1. Per pkg. of half dozen sheets, 3x4.....\$0.25No. 2. Per pkg. of half dozen sheets, 4x5......40No. 3. Per pkg of half dozen sheets, 5x7......60

EASTMAN'S FLASH CARTRIDGES.

Eastman's Spreader Flash Cartridges, for use with pistol or fuse (price includes both fuse and cap) per pkg. of one half dozen. \$0.25 Eastman's Spreader Flash Cartridge Pistol. .50 Eastman's No. 1 Flash Cartridges, per pkg. of one-half dozen. .60 Eastman's No. 2 Flash Cartridges .40 Eastman's No. 3 Flash Cartridges .25

PURE MAGNESIUM METAL.

Powdered.

This is a pure Magnesium Metal, finely powdered, which is specially manufactured for use in magazine flash lamps. It is absolutely free from impurities and is ground extra fine, which allows it to burn rapidly. Hence it is much faster than the coarse powder on the market.

		PRICE.	
Per	1 ounce	can	0.20
Per	1/4-pound	can	.70
		can	
Per	1-pound	can	2.60
		Very Finely Powdered.	
Per	1-pound	can	2.75

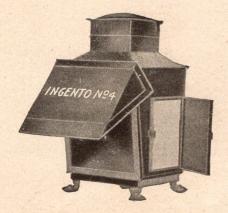
MAGNESIUM RIBBON.

Per 1-ounce package.....\$0.65

NOTE .- FLASH GOODS CANNOT BE SENT BY MAIL.

INGENTO RUBY LAMP No. 4.

(OIL)



This is a popular style of dark room lamp which has given universal satisfaction. It is fitted with a high grade oil burner and glass chimney, and is well ventilated, thus producing a clear, steady light. Three kinds of light are secured with this lamp, the front being fitted with an orange and ruby glass 5x7 inches in size, on the one side an opal glass for examining negatives and transparencies, and on the other an unobstructed white light for printing developing papers.

On the front of the lamp is fitted a large shade which is adjustable to any position and regulates the volume of light. Made of heavy tinplate and handsomely enameled in black and gold.

INGENTO RUBY LAMP No. 5.

(OIL OR GAS)

A lamp "par excellence" for a well equipped dark room. Outside measurement of lamp: base 8 inches square; height, including chimney, 18 inches; size of front ruby glass, 7x9 inches. The front is fitted with three removable glasses, ruby, orange and ground, thus securing any modification of light. The lamp is fitted with a door on each side. The one on the right contains a ruby light, which illuminates any part of the dark room in that direction. On the other side of the lamp is fitted a ground glass to be used in printing developing papers, bromide papers or transparencies. The light can be entirely shut off by closing the door on this side. The Ingento lamps are fitted with gas burner or kerosene oil lamp with circular wick burner and glass chimney, and the light can be regulated and controlled from the outside. The shade can be adjusted and clamped at any point desired. This lamp is beautifully enameled black and striped with yellow.

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	R			

Style	A,	for	oil.																. \$5.0	0
Style	B.	for	gas.			0				1			-	1	-				5.0	0

INGENTO RUBY LAMPS Nos. 6 AND 9.

(OIL)



Ingento Ruby Lamps Nos. 6 and 9.

The improved Ingento Ruby Oil Lamps embody several features that are new in Ruby lamps and are found only in the Ingento.

These lamps are fitted with a new style of burner made on the same principle as the burners for automobile lamps, insuring a steady, even flickerless flame. It has a smooth, flat pan, which is readily accessible and easily cleaned. The opening into the reflector is extra large and allows ample space for the flame in opening and closing, this prevents the glass from becoming smoked. It is the most cleanly oil lamp made.

It is fitted and regulated from the outside.

Handsomely finished in rich red baked enamel, with orange and ruby glass, making the light perfectly non-actinic.

PRICE.

No. 6. Ingento Ruby Lamp (glass 35/8x45/2).\$0.75 No. 9. Ingento Ruby Lamp (glass 41/2x51/2). 1.00

ELECTRIC RUBY AND AMBER GLOBES.

We have had made expressly for this purpose an electric ruby lamp.

They can only be used where there is an electric light current.

DIRECTIONS FOR ORDERING.

State the voltage of your current.

State the base or socket into which the lamp must fit.

PREMO CANDLE LAMP.

This little candle lamp is of folding design and may be readily carried in the pocket. The top and bottom are made of metal, the sides of special fabric. It uses a large candle and illuminates from all sides, giving a strong, safe light for the dark room.

 PRICE.

 Premo Candle Lamp
 \$0.25

 Candles, per dozen
 .30

 Candles, per gross
 3.00

RADION DARK ROOM LAMPS.



A simple utility for the photographer. The most serviceable and convenient dark room lamp manu-

No. 27 RADION DARK ROOM LAMP.

Outside diameter 81% inches. Height 434 inches. Weight complete 114 pounds. Takes 10 or 15-watt standard "Mazda" globe or 25-watt round bulb "Mazda" globe.

Instantly adjustable to any desired position.

The parabolic reflector permits the use of a small lamp, giving four times the light otherwise available and putting it in one spot where wanted.

The ruby glass and cloth are instantly removable, thus providing any light desired; safe light for plates or paper, and fast even white light for printing and general work.

The RADION Dark Room Lamp takes up no table or bench space, is never in the way and "stays put."

No. 25 RADION DARK ROOM LAMP.

Consists of reflector only same as with lamp No. 27. Made to fit standard electric bulb and socket. Fitted with orange paper and ruby cloth.

No. 26 RADION DARK ROOM LAMP.

Same as No. 25 with addition of flashed ruby glass, giving safe light for fastest plates.

THE IDEAL ELECTRIC RUBY LAMP.



It is made of heavy tinplate and handsomely copper oxidized. The lamp is fitted complete with 16 candle power incandescent lamp, and wiring with connection, which can be attached to either the Edison, T .-H., Westinghouse or other sockets.

The lamp is fitted with three glasses, orange, ruby and ground.

When ordering, specify for what socket lamp is wanted.

Price.\$2.50

THE EASTMAN STUDIO DARK ROOM LAMP.



A strong, sturdy and sensibly constructed dark room lamp, mechanically correct as to ventilation, and simple to clean. The front glasses fit into light tight grooves, the ruby glass being double thickness and fitted into a metal frame with lifting ring, the orange glass, also removable, fits in a groove in front of the ruby glass.

The side lights are of heavy ruby glass.

The front is protected by a hinged screen, supported at any angle by means of a metal rod.

May be used with either oil or electricity, and when oil is used the flame may be controlled without opening the lamp.

PRICE.

With oil lamp only With electric attachment,	not	including	oil	
lamp				3.50
Oil Lamp only			• •	.50

INGENTO RUBY LAMP No. 3.

(ELECTRIC)

Consists of an inner orange bulb and an outer detachable flashed ruby globe.

A threaded brass ring slips over the ridge on the socket, the support for the outer globe screws over this ring forming a perfectly light-tight connection and making this the most effi-cient electric dark room lamp of its type that has ever been offered.

The inner bulb alone is a per fectly safe light for developing papers, and the inner bulb and outer globe used together give a safe non-actinic light for working plates, films and bromide papers. It fits any ordinary house socket.

PRICE.

Ingent	o Ruby	y Lamp	No.	3.	 						\$1.50
		Globes.									
Extra	Inner	Globes.									75

Camera Stands

CENTURY STAND No. 3.



The Century Stand No. 3 is made of hardwood with a mahogany stain.

It is exceedingly firm and rigid. It is raised and lowered by a rack and pinion and held in place by an automatic lock.

The top is provided with the regular Century Tilting Device and is covered with felt.

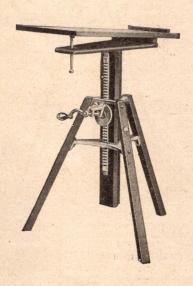
All metal parts are beautifully oxidized.

The stand bears throughout every evidence of workmanship. Price. \$8.00

CENTURY STAND No. 4.



CENTURY STUDIO STAND No. 6.

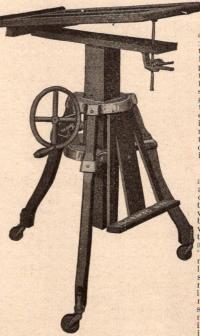


In construction, the Century Studio Stand No. 6 is similar to the No. 3, having the same raising and lowering device. This stand is fitted with the gravity tilting device similar to that supplied on the No. 5 Studio outfit, and the top is finished in natural wood instead of being felt-covered. The feet on the No. 6 stand are fitted with rubber tips.

PRICE.

Century Studio Stand No. 6......\$6.75

THE INGENTO CAMERA STAND No. 1.



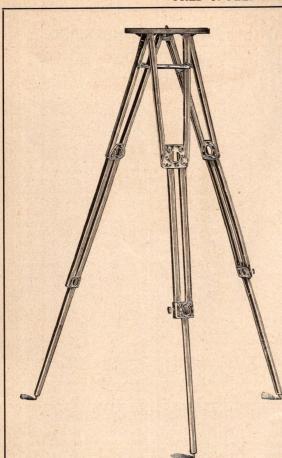
This stand combines in its on struction the most prominent and important elements of a perfect studio stand, viz. rigidity at all times, strength, ease and rapidity of adjustment, and attractiveness of design and findesign and fin-

It has a new and improved a u t o m a tic clutch in the tilting device, which need not be touched when raising the rear of top, and only a "touch" being required when lowering the It has a new

touch" being required when lowering the same, also a new cam locking device, and release for same for automatically holding and binding and binding and binding and binding and binding and binding the vertable the most important improvement lies in the new adjustable ball caster jack attached to the rear leg, and which enables the operator to instantly throw its weight on the ball caster, for moving its position, or on the solid foot, which then rests rigidly upon the floor. It is made of hardwood, mahogany finish, and fittings are polished and nickle plated.

For Cameron Scale.

PRICE.
For Cameras 8x10 and smaller.....\$10.00



THE PROFESSIONAL TRIPOD.

The Professional Tripod meets the demand for an absolutely rigid and substantial support for 11 x 14 and larger cameras.

It is a three-section telescopic folding tripod, quickly set up and adjusted for height by means of heavy milled

head screws.

The upper section folds back upon the second, into

which the lower section slides.

It is made of carefully selected, straight-grained cherry, which has been soaked in an oil bath for ten days before refinishing, rendering the wood extremely

tough and moisture proof.

The Professional Tripod is provided with expansion brackets in the upper section, which makes it impossible for the legs to be detached from the head until the brackets are folded, which method of construction great-

ly increases its rigidity. Length, closed, 24½ inches; height, 5 feet; diameter

of top, 111/2 inches; weight, 111/4 pounds.

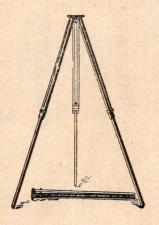
Professional Tripod, for cameras up to and including 14 x 17.....\$12.50

THE CENTURY "12 FOOT" TRIPOD.

This Tripod is made exceedingly strong and rigid, and, as its name indicates, is designated for use when extreme elevation is necessary. The top is the same as that of the Professional Tripod, while the legs are made proportionately stronger.

Century "12 Foot" Tripod, complete......\$18.00

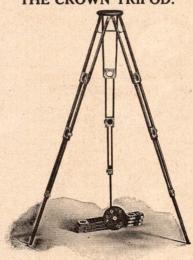
THE CARLTON SLIDING TRIPOD.



As a rigid tripod none will be found more satisfactory than the Sliding. The legs are made in two sections, producing a very firm support. The top is of wood, covered with cloth. The two smaller sizes are made of spruce, the larger of ash. They are well finished and the metal parts are of lacquered brass.

Style	Size of Camera	Weight	Price
No. 1.	5x 7 and smaller	2 lbs.	\$2.00
No. 2.	5x 8 and 61/2 x81/2	2 lbs. 8 oz.	2.50
No. 3.	8x10 and 10x12	4 lbs. 8 oz.	3.00
No. 4.	11x14 and 14x17	6 lbs. 8 oz.	4.00

THE CROWN TRIPOD.



The Crown is a four-section telescopic folding tripod, absolutely rigid, quickly set up and readily adjusted for height.

It is made of selected straight-grained cherry, soaked in an oil bath for ten days before being finished. The wood is then rubbed down and shellaced. This treatment renders it extremely tough and practically waterproof.

The No. 1, when closed, measures 16¼ inches in length, and weighs with top, 36 ounces. When extended to its full capacity, it stands 41-3 feet high.

high.

The No. 2, closed, measures 17¼ inches in length, and weighs with top, 65 ounces. When extended, it has a height of 42-3 feet.

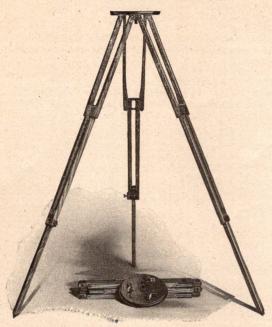
The No. 3, closed, measures 20 inches in length, and weighs with top, 70 ounces. When extended, it has a height of 5½ feet.

PRICE.

Crown Tripod, No. 1, with 4-inch top......\$5.50

Crown Tripod, No. 2, with 6-inch top...........\$7.50

COMBINATION TRIPOD.



This tripod is made on the sliding and folding principle. The wood parts are of ash and the finish is of the very best. The trimmings are of brass with lacquer finish. The length, when extended, varies according to size from fifty-six to fifty-nine inches; when folded, from twenty-two to twenty-three inches.

PRICE.

Style	Size	of Car	nera		Weight	Price
No. 21/2.	6 1/2 x 8 1/2	and	smaller		lbs. 2 oz.	
No. 3.	8x10	and	10x12	4	lbs. 2 oz.	3.50
No. 4.	11x14			5	lbs.	4.50
No. 5.	17x20	and	20x24	7	lbs.	6.00

EASTMAN HOME PORTRAIT TRIPOD.

This tripod is of special construction, having an aluminum top, and sliding adjustable legs, rubber tipped. Stays run from each leg to a rod in the center, which is a continuation of the tripod These stays hold the tripod absolutely rigid and it may be lifted up and moved without danger of collapsing. In folding, the tripod closes like an umbrella frame, with the stays in the center. See Page 54 for illustration.

OUR SPECIAL SLIDING TRIPOD.

Although very light this is an extremely rigid tripod, and is designed for cameras up to and including the 4x5 size. The wood is straight grain spruce with shellac finish, the metal trimmings and head are of lacquered brass. The weight complete, including head and screw, is but 15 ounces. When extended for use length can be made to vary from thirty to fifty-four inches. Price.\$0.75

R. O. C. TRIPOD.

The R. O. C. Tripod is of the combination type and is for use with any camera up to and including the 5x7 size.

Made of well seasoned material and substantial. An elegant tripod for the price. Weight, 32 ounces; Length, 22 to 57 inches,

KODAK METAL TRIPOD.

Combining light weight and compactness with exceptional rigidity, this is an ideal tripod for cameras up to 5x7.

Has telescoping legs of brass tubingones nickeled—the upper black enameled, and should a part become inoperative through wear or accident, any section may be removed for repairs. This is a unique feature among metal tripods. When extended each section catches and holds firmly. To close, it is necessary to press in top catch only, the others then releasing automatically.

The Nos. 1 and 2 have revolving heads for attaching to camera. With this construction the camera may be swung, so as to take in the desired view without moving the tripod, a distinct advantage over other types of metal tripods. The Nos. 1 and 2 also have straps for holding the legs in place when closed.

Length

Closed Extended Weight

	Sec.	In.	In.	Oz.	Price
No. 0	3	151/2	391/2	15	\$1.60
No. 1	.4	15	481/2	241/2	2.50
No. 2	5	131/2	491/2	25	3.25
Leather	Carry	ring Ca	se, eith	style.	1.50

INGENTO METAL TRIPODS.

The popularity accorded our line of Metal Tripods has induced us to add several new and improved patterns.

This form of tripod is the best possible for small folding cameras, being light, compact and extremely portable.

The Ingento line is very complete.



No. 17.

No. 18.

and 22.

Nos. 16, 17, 18 and 19 are made on the "Flat" construction idea, so that when folded the three legs are parallel, making it so compact that it can be readily carried in the pocket.

Nos. 20, 21 and 22 have a specially designed head which consists of three folding extension brackets that form a wide triangular support with a total radius of 4 inches. When closed the brackets fold snugly within the spaces between the tubing.

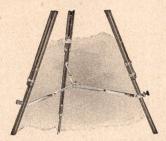
tubing.

They are made of strong brass tubing, heavily nickel plated heads and black enameled upper sections.

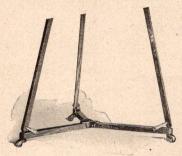
No.	Wt.	No. and		
of	in	Finish of	Kind of Head	Price
Tripod	Oz.	Sections		
16	24	7. Nickel	Flat	\$4.15
17	24	7. Nickel	Triangular	4.75
18	28	5. Brass	Folding Table	5.25
19	26	7. Brass	Tilting Table	5.50
20	29	5. Brass	Triangular	4.85
21	27	7. Brass	Triangular	5.25
. 22	38	5. Brass	Triangular	6.00

No. 16.

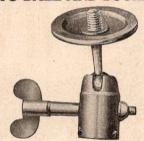
EASTMAN TRIPOD BRACE.



R. O. C. TRIPOD TRUCK.



INGENTO BALL AND SOCKET TOP.



This attachment can be readily adapted to any of the metal tripods, and its utilty will commend its use to many amateurs. By the use of this device attached to the tripod, the camera can be adjusted or tilted at any angle, or can be revolved in any direction. It is especially valuable when using a camera not fitted with a reversible back, which is the case with all of the prevailing styles of film cameras or kodaks and many of the plate cameras. You can swing your camera from the position of making a landscape or horizontal picture to that of a panel or vertical view in an instant, and without removing apparatus from tripod. Made of brass and nickeled.

CROWN TILTING TRIPOD TOP.

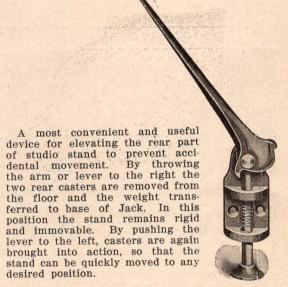
The Crown Tilting Tripod Top is made in two sizes, Nos. 1 and 2, and designated for use with the Crown Tripods. By the aid of this attachment the camera may be tilted at any angle upward or downward, and also reversed for vertical pictures without changing the back or removing it from the tripod. Its portability and compactness will at once commend it to the profession, especially for out-of-door use.

The top is perfectly rigid, no matter what position it may occupy.

PRICE.

No.	1.	Crown	Tilting	Tripod	Top	\$2	2.00
No.	2.	Crown	Tilting	Tripod	Top		2.50

CENTURY CAMERA STAND JACK.



PRICE.

Century Car	nera Stand	Jack	\$1.00
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INGENTO CASTER JACK.



The Ingento Caster Jack is for use with camera stands which are fitted with front casters only. A downward pressure of the lever elevates the stand, thus allowing it to be moved around easily; a reverse movement of the lever causes the stand to rest firmly upon the floor.

PRICE.

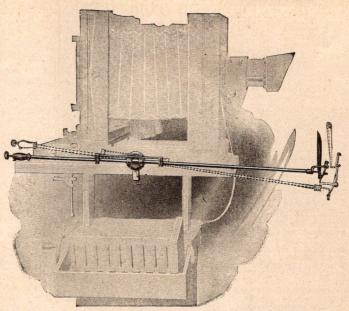
No. 1. With 2¾-inch hardwood wheel....\$1.50
No. 2. With 2¾-inch rubber tire wheel....\$2.00

CENTURY VIGNETTER.

The Century Vignetter is a simple and thoroughly practical device for producing vignette effects during exposure. It may be readily attached to any portrait stand, and is so constructed as to be easily operated with one hand when the operator is in position behind the cam-

The Century Vignetter is noiseless in operation, all parts working in straight lines, obviating any tendency to cramp or bind. When not in use, the Vignetter may be adjusted in a perpendicular position with the card over the camera and made to serve as a lens hood.

PRICE.



Showing Vignetter attached to Semi-Centennial Stand.

the blending is entirely satisfactory. More movements can be secured with the Ingento Vignetter than with any other. It is adapted to movements forward and back, up and down, tips to right and left, and can be slanted outward or inward to any degree. There are no rods or chains to catch, or any mechanism whatsoever to get out of order, as all movements work perfectly free and can be adjusted quickly. It is made of brass, beautifully nickel-plated, and is a handsome work is a handsome to see the vignetter can be removed in stantly and hung up.

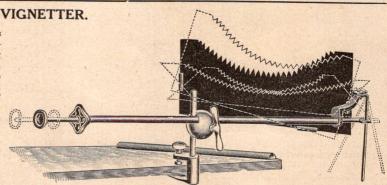
INGENTO VIGNETTER.

One of the best and most easily adjusted vignetters on the market. A marvel of simplicity and adaptability. The Ingento Vignetter is manipulated from the back of the camera stand, so that the operator can watch his subject on the ground glass until the blending is entirely satisfactory.

.......... THE VICTOR VIGNETTER.

The Victor Vignetter is limitless in its adjustments. It is made wholly of metal, excepting the vignetting card, and is beautifully finished in nickel plate. The lower part of the notched edge of the card is on a horizontal plane with the pivot of its supporting rod. Hence the tilting of the cara does not change its focus, or the distance from the card to the lens. This most important feature does away with the necessity for constantly readjusting the dis-tance from the lens to the card.

addition to any gallery outfit.



THE SUCCESS VIGNETTER.

It would be exceedingly difficult to produce a more simple piece of mechanism and have it cover every requirement. It is extremely easy to operate, simply drawing the lever backward or forward, adjust the card in the horizontal positions. To raise or lower the card, raise or lower the lever. It automatically retains any position, and when not in use can be lowered entirely out of the way. Can be adjusted to any stand in a few moments. No cutting or fitting necessary.

PRICE.

A STATE OF THE PARTY OF THE PAR		200	PRICE.
No.	1.	14	nches\$2.06
No.	2.	16	nches
No.	3.	18	nches 4.00

THE DIXIE VIGNETTER FOR PRINT-ING FRAMES.



	size30		
4 x 5	size30	cents eac	h
41/4 x 61/6	size30	cents eac	h
5 x 7	size30	cents eac	h
5 x 8	size30	cents eac	h
616x 816	size45	cents eac	h
8 x10	size60	cents eac	h
10 x12	size75		
Sample	by mail 10 cents additional.		

EASTMAN ADJUSTABLE LENS HOOD.



This article replaces the clumsy and many times unsightly makeshifts with which the photographer has put up with in the past. One great advantage of this hood is the fact that if bumped into by the photographer by accident, it does not pull over the camera with it. The lens hood merely drops off, and can be readjusted instantly.

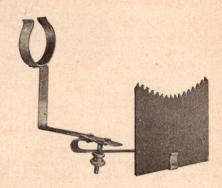
In Rembrandt lightings, the hood may be adjusted so as to guard against side lights.

It is made in 3 sizes, one for lens hoods, 2 to 4 inches, the other 3½ to 6 inches. The material is black morocco, with nickel plated spring band, and the inside is lined with fine non-reflecting black velvet.

PRICE.

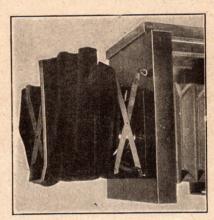
								diameter\$1.50
No.	1,	for	lenses	31/2	to	4 1/2	in.	diameter 2.00
No.	2,	for	lenses	4 1/2	to	6	in.	diameter 2.50

THE MORRISON VIGNETTER.



The Morrison Vignetters are made of springbrass, nickel-plated and polished, and are packed separately in a cardboard box with two vignetting cards, each having two shades of color, making four in all, viz., Black, Dark Gray, Light Gray and White, with which shades any color of background can be matched.

CORNELL LENS HOOD.

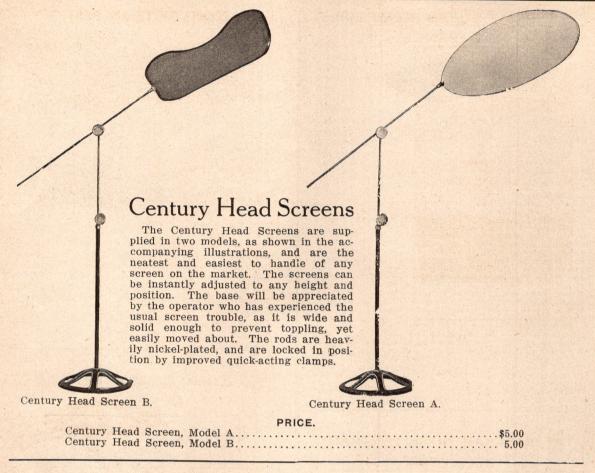


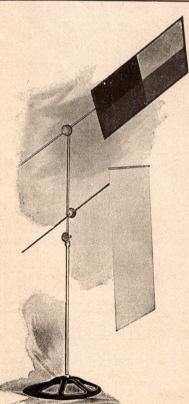
Lens Hood Extended, Showing Attachment.

The Cornell Lens Hood keeps all stray light from the lens and insures clear and bright negatives. Will close out of the way when you wish to change your lens or diaphragm. Can be set sidewise when working towards the light, and the camera will not move if you run against it. Lens Hood and Attachments, each\$3.50

CORNELL LIGHT RESTRAINER.

This little instrument fastens onto the hood of the lens and used same as a vignetter, but diffuses. the lower part of the subject instead of cutting it off. Made of heavy dressed board with metal connections for fitting to lens.





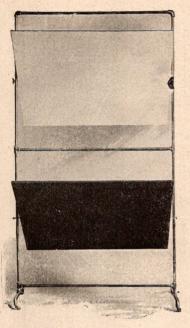
CENTURY UNIVERSAL HEAD AND SIDE SCREEN.

The photographer will find a great variety of uses for this new studio accessory, as its unique construction will permit a wide variety of lightings by slightly altering the position of the screens. The square top screen may be revolved, and the fact that each quarter is of a different density permits the production of almost any lighting effect the photographer may require.

PRICE.

Century Universal Head and Side Screen.....\$8.50

EASTMAN STUDIO REFLECTOR.



A practical studio accessory that has found great favor with the profession.

The reflector consists of two swinging screens, each 24x26 inches, mounted one above the other in a strong iron frame. The screens are black on one side and white on the other, and can be swung to any angle and securely locked.
The frame is

The frame is on casters, stands six feet high and is elegantly finished in Japanned copper.

PRICE.

Eastman Studio Reflector.....\$12.00

THE EASTMAN HOME PORTRAIT REFLECTOR.

An indispensable accessory in home portraiture.

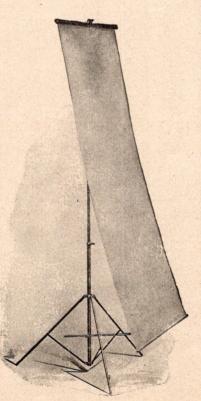
The reflector is made of white opaque Holland shade cloth, which reflects the maximum amount of light; mounted and hung on a stand similar to the Eastman Portable Background Carrier (see page 109.)

An adjustable rod is provided for holding the reflector at any angle.

Carrying bags are provided for storage when not in use.

PRICE.

Eastman Home Portrait Reflector...\$4.50



CENTURY HEAD REST. The Century Head Rest is solidly and substantially constructed, and takes the place of the rests fitted with the unsightly clamp heretofore furnished. This head rest may be instantly adjusted to any height or position, and is of sufficient weight to prevent tipping. PRICE. Century Head Rest.\$4.50



THE EASTMAN PORTABLE BACK GROUND CARRIER.



Attractive in appearance, light, strong and exceedingand exceedingly compact, the
Eastman Portable Back
Ground Carrier
will prove immensely valuable for "away
from the able for "away from the studio" sittings. The carrier entirely does away with the necessity for improvised grounds or makeshift devices to support them when extended, the carrier is of sufficient height to support full length grounds, and when closed, occupies about the space of the space of the space of the space of the support of the space of the studies.

with No. 4 background in position, the space of the regulation folding music rack. A number of different grounds may be carried on the roller and any one of which may be used without detaching the others—just bring the ground you wish to use to the front, and seat the roller on the top of the carrier. Either cloud and blend grounds or scenic grounds may be had, as shown by the accompanying illustrations. Plain white, black or gray grounds will also be supplied. The carrier weighs 3 pounds 7 ounces, and measures extended 8 ft. 6 inches, closed 27½ inches. PRICE.

Eastman Portable Background Carrier \$3.00

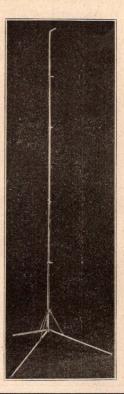
VICTOR

TELESCOPIC SUPPORTING STAND,

For Flash Lamps, Flash Bags, Side Screens or Backgrounds.

Nickel-plated, folds to 21 inches in length only, weighs 23/4 lbs. Just the thing for use with home portrait out-

Price. \$3.50



INGENTO TEATENT PENDING Carrier Complete (Folded).

Ready for Use.

INGENTO PORTABLE BACKGROUND CARRIER.

(With Background.)

(With Background.)

This is the most complete combined background and carrier ever invented. It is designed to fill a need long felt by every amateur for a background that he can use at his home and easily convey from one part of the house to another, or set up in the yard. It enables him to secure the right sort of background in the right place, whether it is in the parlor, on the porch, or out in the open.

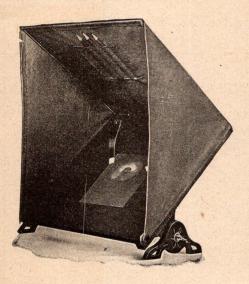
The frame of the Carrier is made of a strong, specially seasoned hardwood, and when set up offers a light, rigid, perpendicular support for the background, that will not sway with the wind, and that may be readily shifted or set up in the most advantageous place. The background is raised and lowered automatically in exactly the same manner as a window shade; fully extended it is five by six feet in size, and is in every way equal to the most perfect studio background.

The Carrier upright is supplied with a steel plate, which is inserted in the mortise provided in the roller. This arrangement holds the background firmly and perpendicularly. A shoulder is also provided on the carrier upright, upon which rests the weight of the roller and background, thus doubly insuring the stability of the carrier. This carrier can be set up and taken apart in a few seconds.

When not in use the ground is automatically

when not in use the ground is automatically wound on its rollers and detached from the frame, which is in turn folded up into a compact, easily portable package, and can be stored away with the assurance that the background will be clean and free from creases and wrinkles when it is next used.

THE CENTURY FOLDING RETOUCH-ING FRAME.

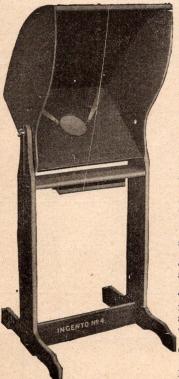


Compact, light and serviceable. Large enough to accommodate all size negatives up to 11x14. Rubber-tipped spring fingers for holding negatives in position. Pockets for pencils and etching tools. Size when folded 15½x17½x2½ inches.

PRICE.

Century Folding Retouching Frame......\$3.00

INGENTO RETOUCHING DESK No. 4.



The No. 4 desk comprises one No. 3 retouching desk without metal supports and an adjustable stand as is shown by the cut. The supporting frame has slots in the sides for holding the desk at any desired elevation or angle for the convenience of the retoucher. It is supplied with a drawer for holding pencils and other materials.

This desk makes a secure, substantial and practical outfit of elegant appearance. The entire outfit is shipped "knocked down" in compact form, and is easily and quickly set up.

PRICE.

Complete. . \$7.50
Price of Supporting Standonly, for those

only, for those who already have the No. 3 Ingento Desk...\$4.50

R. O. C. RETOUCHING DESK.



A favorite type with the professional, as it is exceedingly simple to adjust and folds compactly when not in use. Equipped with reflecting mirror and drawer for holding pencils and etching knives.

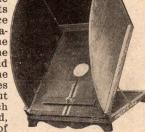
PRICE.

R. O. C. Retouching Desk.....\$2.50

INGENTO RETOUCHING DESK No. 2.

The desk measures 16x20 inches, accommodating any size negative up to 14x17 inches.

The negative is supported by an adjustable stage, which permits movements that place any part of the negative directly over the light circle. Behind the light circle is a ground glass attachment. The circular hole is 3 inches in diameter and is cut in a frame or kit which can readily be removed, leaving an opening of



leaving an opening of five inches square. It is made of fine oak, varnish finished, inside stained black, and folds into a very compact space.

INGENTO RETOUCHING DESK No. 3.

This is an exceedingly practical desk for studio use. It is always set up ready for immediate use. It takes negatives any size up to 14 x 17. The negatives are held by rubber-tipped springs in any desired position, vertical or horizontal, and can be instantly adjust-

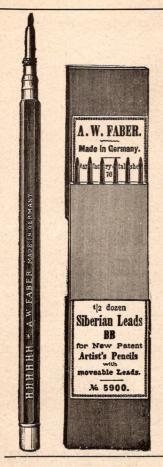


ed. It is very strongly constructed.

Made of fine three-ply veneered hardwood with varnish finish outside and stained black inside.

Shipped "knocked down," easily and quickly set

Price.\$3.00



Retouching and Spotting Pencils, Leads and Holders

A. W. FABER'S CASTELL RETOUCHING PENCILS AND LEADS.

With Siberian lead from the Albert mine. For retouching, etc. We give the following scale for convenience in ordering:

F—Middling. No. 3. H—Hard.

HH—Harder. No. 4.

HHH-Very hard.

HHHH—Very hard. No. 5.

HHHHHH—Extra hard.

BBBBBB-Extra soft and extra black.

BBBB—Very soft and extra black.

BBB—Very soft and very black.
BB—Soft and very black. No. 1.

B-Soft and black.

HB-Hard and black. No. 2.

The above scale applies to both the pencils in wood and leads, so be sure to state which is wanted.

PRICE.	Per Doz.	Each.
2 B to 6 H	\$1.00	\$0.10
3 B to 6 B		.10
2 B to 6 H, Leads	1.00	.10
3 B to 6 B, Leads	1.00	.10
Faber's Holders for Leads, including one lead		.25

THE CENTURY PENCILS.



The Century Negative Pencil is made especially for working on glass and film surfaces. Just right for working in backgrounds on the glass side of negatives, building up shadows, titling negatives; also for labeling solution bottles, trays, etc.

The Century Photo Spotting Pencil. For spotting photographs, far more satisfactory than the old method re-

quiring India ink or moist color.

Century	Negative Pencil, per box of 1 dozen	\$1.20
Century	Photo Spotting Pencil, per box of 1 dozen	1.20
Century	Sepia Spotting Pencil, per box of 1 dozen	1.20

E. WOLFF & SON'S CARBON PENCILS.

For retouching and spotting prints, sketching, etc. Made in six degrees.

PRICE.	Each.	Per Doz.
HH, H, HB, B and BB.	\$0.10	\$1.00
BBB	15	1.50

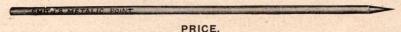
FABER'S BLUE PENCIL FOR WRITING ON GLASS.

This is a valuable pencil for the photographer for retouching negatives on the glass side, and is indispensable for working in hair, lace and draperies, building up deep shadows, strengthening high lights and bringing out in relief such parts as do not show with proper definition. Being put on the glass side these marks can be readily removed if desired, and do not injure the negative.

PRICE.

SMITH'S METALLIC POINTS.

These metallic leads fit the Faber holder. They are made especially for retouchers' use.



We also carry a full line of Faber's Regular Rubber Tipped Pencils, on which we make a net price of 45c per dozen.

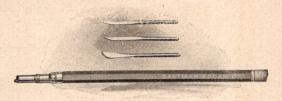
Etching Tool Outfits.

EASTMAN'S ETCHING KNIVES.

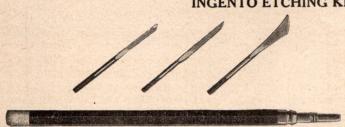
For remodeling on negatives, and etching on prints. The set consists of wooden holder and three blades.

PRICE.

Etching Tool	Outfit\$1.	00
Extra Blades,	either style, each	25



INGENTO ETCHING KNIVES.



This outfit consists of three Etching Knives and one holder which holds the two knives that are not in use, thus making it a very compact outfit. They will be found indispensible for etching negatives, remodeling draperies, etching in backgrounds and removing high lights. The knives are made of the best English steel, tempered and ground.

Price complete in box.....\$1.00

HAAG'S NEW PROCESS ETCHING KNIVES.



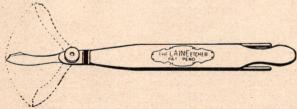
Made by a professional retoucher who knows what is wanted for real service. Each knife guaranteed to last for years if used for etching negatives only. Hand made, razor steel, oil tempered. Three different sizes, see cut.

INGENTO RETOUCHING OUTFIT.

This outfit contains all of the necessary articles for retouching and spotting. It consists of one Retouching Holder and Lead, one vial of Retouching Varnish, one vial of Opaque, one Etching Knife, one Spotting Brush and one Spotting Pencil.



THE "LAINE" ETCHER.



Showing different angles of blade can be used

The "Laine" Etcher is a non-folding blade protecting knife, specially adapted for the retouching and spotting rooms. Easily kept sharp, no oil or wet stone necessary. The blades are designed to do both fine and broad etching, having double edges. Not only is this the best tool ever invented for the purpose but the cheapest, as the handle will last for years and future blades may be had for 35 cents apiece. The blades are the best tempered steel and hollow ground like a razor.

Price complete with one blade and strop....\$2.00

INGENTO ETCHING PEN.

THE EAGLE ETCHING TOOL.



Made specially for photonegative use. A carefully prepared tool, approved by competent negative workers.

Price. \$0.35

PRIMUS TITLING OUTFIT.



Is intended for producing white letters on your prints. The letters being reversed, it is only necessary to print directly on to the film side of the negative when perfectly clear white letters are produced on your prints. The type is specially

cast in solid rubber, reversed.

The set contains 152 letters, figures and spaces, ink pad, type holder, twisters for lifting the typebox of opaque powder, gauge, etc., with full instructions for using.

Price, outfit complete.....\$1.50

EAGLE RUBBER STAMPS.

Reversed Type.

The Eagle Rubber Stamps of reversed type give a white impression on the print. The negative is stamped using the special ink furnished. Any number of prints can then be made from the negative, each print showing the matter stamped in white. To make these stamps it is necessary to have a die made. This die we supply with each order, on orders for duplicate stamps, return the die with order.

PRICES.

Price.	including sta	mp, d	ie and	ink.	 	\$ 3.00
Extra	stamps from	die,	each		 	 .75

TITLEIT.

For Titling Negatives.



Titleit Outfits consist of a font of thin, opaque, metallic letters attached to a plate of glass. These aletters are to be BBBBBBBBBBBBCC fastened to the film side of the negative, with a transparent adhesive which is supplied with the outfit. The operation is exceedingly quick and simple, The letters can be removed by soaking the negative in water.

PRICES

			OIL B.		
No.				figures, small	
	S1Ze			\$0.	50
No.	2 Outfit—1300	figures	only,	small size	50
No.	3 Outfit— 800	letters	and	figures, large	
	size				50
No				large size	
140.	1 000	"Haires	oully.	raise size	00

RUBBER STUMPS.



Nigrivorine. F. W. Devoe & Co.'s Nigrivorine Rubber Stumps.

\$0.05
.06
.07
\$0.05
.07
.10



Conte's Small. " Ctumna Wood Contro

Conte s	Rupper Stumps, wood Centre.	
Small Medium.	Each \$0	.12

TORTILLON STUMPS.



White	 E	y dozen, \$0.08
Grey	 	By dozen, .08

FRENCH STUMPS, FOR CRAYON SHADING.

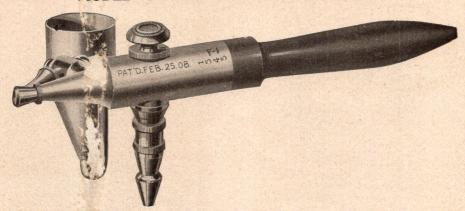
Illustrations 34 actual size. Yellow Leather. 1....Each, \$0.05 2....Each, .06 Grey Paper. 1....Each, \$0.02 2....Each, .02 No. No. No. .06 .07 .08 .10 No. Each. Each, Each, .03 No. No. No. 10 No. 5 . . . Ea .12 No. 6 . . . Ea .15 No. 7 . . . Ea .18 No. 8 Ea p. Size. ½ x ½ x 3 %. Each. Each. .0 Each. .0 %. Each. Each. No. 8.... Each. 18 "Peerless" Felt Stump. .05

SPONGE RUBBER.



2915. Rubber, medium, rubber No. 2915—Sponge back, 2½x1¾x½ inches; each.......\$0.30 No. 2916—Sponge Rubber, large, 4x2x1 .60 inches; each. . 2917—Sponge Rubber, mammoth size,

IODEL "F" No. 1 PAASCHE AIR BRUSH.



The Model "F"-1 Air Brush is extensively used for making show cards, price tickets, signs; coloring

souvenir post cards, calendars, novelties, draperies, backgrounds, etc.

The price of this brush has been reduced since placing the new improved models on the market, but as they will do the same work as the other brushes, with the difference of not being as handy and convenient to operate, they will be found very valuable to those who use the air brush only occasionally. Model "F" No. 1 Air Brush in leatherette case with No. 2 color adjusting parts, No. 1 Model "F"-1 color cup with strainer, air brush hanger, hose attachment nipple, and complete direc-

tions for its care and handling......\$12.00

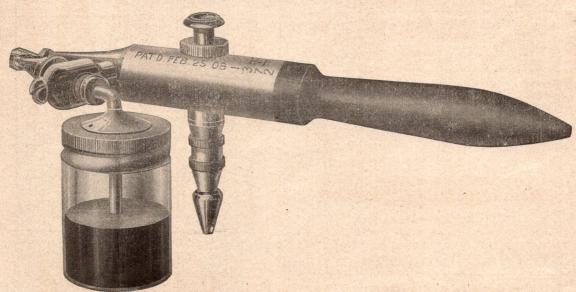
MODEL "F" No. 2 PAASCHE AIR BRUSH.

This is the new improved model and the best low priced brush on the market. Is one of the most popular air brushes, for the reason that it is very easy to operate, and beginners can turn out very artistic and striking work with it from the very start. It is the best obtainable and most commonly used for making show cards, price tickets, signs; coloring souvenir post cards, calendars, novelties, draperies, ground-laying, and purposes of similar kind.

Model "F" No. 2 Air Brush in leatherette case with No. 2 color adjusting parts, No. 1 Model "F"-2 color cup with strainer, ½-0z. color bottle with strainer, air brush hanger, hose attach-

ment nipple, and complete directions for its care and handling......\$14.00

MODEL "H" PAASCHE AIR BRUSH.



This model will throw twice as much color as the "F" model, will make a fine line, any spray and stipple effect, and is more adapted for sign work, pennants, post cards, valentines, portrait draperies and backgrounds, stencil decorating, window trimming decorations, advertising posters, campaign banners, coloring, tinting and bronzing of statuary, plaster paris casts, artificial flowers, fixtures, etc. Model "H" No. 1 Air Brush in leatherette case with No. 2 color adjusting parts, No. 1 Model "H"-1 color cup with strainer, 2½-oz. color bottle with strainer, air brush hanger, hose attachment

Ask us for complete catalogue of Air Brushes and equipment, showing over 20 different types for every class of work.

PAASCHE LIQUID CARBONIC GAS OUTFIT.



Liquid Carbonic Gas Outfit (less drum), with wall clamp, wrench and eight feet air-brush

city). 1.50
Wrench only. 25
Wall clamp only, for 20-1b. drum. 35
This outfit is especially designed and made for air-brush purposes. It is very compact, the most durable of its kind, and absolutely guaranteed in every particular to give the best of service. Liquid Carbonic Gas is the most commonly used among beginners and where only one air-brush is in operation, for the reason that it furnishes a steady pressure without having to do any pumping. A drum of gas (which costs \$2.00 in our city), will last about three weeks, figuring the air brush is used about six hours a day.

To out-of-town customers we only send the Liquid Carbonic Gas Regulator complete with gauge, wall clamp, wrench and tubing, as the supply of gas is obtainable from any soda fountain or saloon supply house in cities of a fair population, whose address we furnish you with when ordering, thereby doing away with cartage on the heavy drum from Kansas City.

Weight of regulator complete, packed for shipment, 10 lbs.

PAASCHE FOOT PUMP OUTFIT.



Patent applied for.

Paasche Foot Pump Outfit, complete, consisting of Paasche foot pump, air tank with gauge and air cock, fittings and ten feet of the best air-brush tubing.....\$12.00

Paasche Foot Pump only, finished in blended

Air tank, tested for 60 lbs. air pressure, with hose fittings. 2,35

Air tank with gauge, air cock and fittings ... This outfit made a hit fron its first appearance and with its new improvements, it is the latest, best and easiest working outfit of its kind. It works noiselessly and will furnish 40 lbs. pressure without any exertion.

Weight, packed for shipment, 35 lbs.

PAASCHE AUTOMATIC ELECTRIC AIR COMPRESSOR OUTFITS.

No. 6 Direct Current Paasche Automatic Electric Air Compressor Outfit, with No. 6 Air Compressor (with grease and oil cups), 1/8 H. P., 110 or 220 volt motor, 8-gal, air tank, 40 lb. air gauge, fittings, No. 1 automatic electric cut-out, 12 ft. of electric wire with attachment plug, belt and baseboard (as illustrated).....\$50.50 Capacity at 200 r. p. m., 1 cubic foot f. a.

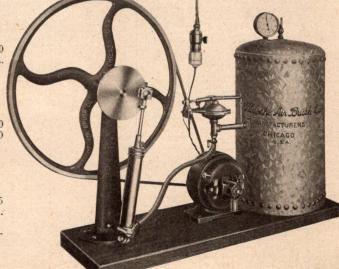
No. 7 Alternating Current Paasche Au-

tomatic Electric Air Compressor Outfit, with ¼ H. P., 110 or 115 volt, 60 cycle motor, otherwise same as No. 6 Outfit... 64.00

Above Outfits without motor...... 38.50 No. 8 Direct Current Paasche Automatic Electric Air Compressor Outfit, with No. 8 Air Compressor (with grease and oil cups), and 1-6 H. P., 110 or 220 volt motor, otherwise same as No. 6 Outfit............ 59.25

Capacity at 200 r. p. m., 11/4 cubic feet f. a. p. m. This outfit will furnish sufficient air pres-

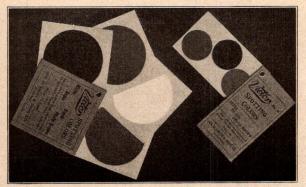
sure for seven artists' air brushes. No. 9 Alternating Current Paasche Automatic Electric Air Compressor Outfit, with 1-6 H. P., 110 or 115 volt, 60 cycle motor, otherwise same as No. 8 Outfit.....



Above outfits without motor..... The Alternating Current motors furnished with our outfits are single phase, of highest efficiency, and will run on one, two or three phase wiring.

Spotting Colors and Retouching Mediums

VICTOR SPOTTING COLORS.



No. 1

These colors in Nos. 0 and 1 sizes are put up on celluloid, in tablet form, and like all other preparations bearing the "Victor" brand they have the famous Victor Quality.

We call especial attention to our Brown and Sepia shades, which are

TRUE TO NAME

and are not two shades of red.

Hence spotters not only enjoy the advantages of using shades which are correct, but they also get double the quantity of color usually put up in this



THE No. 2 SIZE.

This size is put up in quarter ounce opal glass boxes, in moist condition and **sealed**, to insure their being delivered to users in proper condition, and to protect them from dust or contamination after being opened.

Our black will be found superior to India Ink (as it adheres better) for spotting black and white prints.

Black, photo brown and sepia shades; \$0.15 No. 0. Bla No. 1. Black, white, photo brown and sepia; per set No. 2. Black, white, photo brown and sepia; per set

ARISTO SPOTTING COLORS.

Three colors on celluloid. Per set.....\$0.50

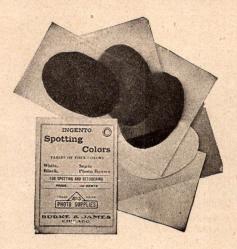
DIAMOND SPOTTING COLORS.

This set is similar in quality to the Ingento Spotting Colors, made up especially for amateurs and those who require a small quantity of colors; put up in an attractive set of three colors, black, brown and sepia, diamond shape on square cellu-

PRICE.

Per set, 3 colors.....\$0.15

INGENTO SPOTTING COLORS.



This is a set of four colors, white, black, brown and sepia; each on a separate sheet of Celluloid and fastened together with an eyelet at the corners. The pigments will blend with any of the papers on the market and are of such a quality as to sink into the picture and not be noticeable afterwards; are specially recommended for professional use.

PRICE.

Per set, 4 colors.....\$0.25

EASTMAN SPOTTING COLORS.

The set consists of four colors; black, blue, red and white.

STYGIAN BLUE, SPOTTING MEDIUM.



This is a transparent blue water color in porcelain cups. It will be found of the greatest value in printing imperfect negatives, for vignetting, holding back parts of negatives that print too quickly, for spotting pin holes, etc.

Price, per cup... \$0.15

INDIA INK.



"Lion Head" India Ink. Put up in hard sticks. Price, per stick......\$0.20

EASTMAN OPAQUE.

For blocking out, and other similar work on negatives

No. 1, per tube.												.\$0.25
No. 2, per tube												50

ALVORD'S OPAQUE.



No. 2, 7 ounces...... No. 3, 20 ounces......

This is a new composition, put up in the form of a thick paste, in glass jars. It is readily thinned with water, even to such an extent that it can be used in a ruling pen.

pen.

Photo-engravers will hind this opaque very valuable for touching up photographs, as it dries quick. smooth and flat and will mix with Chinese white or any other water color, and when reproduced its photographic values are excellent. excellent.
PRICE

						C	in	C	e	1			\$0.25	
													1.00	
													2.00	

INGENTO OPAQUE.

Ingento Opaque is very finely ground to a paste consistency. Its exceeding fineness of grain, non-actinic opacity, covering power, keeping qualities and ease of application are advantages that have won for it the great popularity that it enjoys among photographers and photo-engravers all over the country. It can be applied with a pen. brush or soft cloth, and can be readily removed without injury to the negative.

It is put up in collapsible tubes, and is especially recommended to the amateur because of its convenience and cleanliness in handling.

PRICE.

VICTOR OPAQUE.

This like all other "VICTOR" preparations is unequaled by any other article used for like purposes.

As it is put up in moist condition it is easily diluted to a proper consistency for application, either with a soft brush or pen.

It produces a thin yet smooth hard coating, of perfect opacity, which will not crack, peel, chip, or rub off, yet which can be washed off if desired, leaving a clean unstained film.

It keeps indefinitely. ACCEPT NO OTHER, for there is nothing made that is "just as good."

PRICE. No. 00 ¼ oz.\$0.15 No. 0 ¾ oz.25 No. 1 2½ oz.50 No. 2 7 oz......\$1.00 No. 3 20 oz......2.00

PERFECTION RETOUCHING DOPE.

Gives a good tooth for receiving the pencil and prevents paper from sticking.

Works equally well on varnished surfaces as on the film and can be varnished over without removing the retouching. If it satisfies you, tell others.



BORDEAUX FRENCH RETOUCHING SOLUTION.

An excellent product for all retouching purposes. For retouching locks of hair, scratches and wrinkles, a No. 2 Faber HH pencil may be used, and for general work a harder lead.

	PRICE.	
Bottle.		\$0.25

HAMMER RETOUCHING VARNISH.

Hammer Varnish needs no introduction to the photographer. It is recognized as the standard.

PRICE.

8-oz.	bottle.		. ,										. \$0.	25	
16-oz.	bottle.	 ٠				 								50	

EASTMAN NON-INFLAMMABLE RE-TOUCHING VARNISH.



This varnish will not remove the most delicate penciling, nor will paper adhere to negatives coated with it. Flows easily and dries almost instantly, affording a fine and even tooth for the retouching lead.

PRICE.

Per 16-oz. bottle.....\$0.50

EASTMAN RETOUCHING FLUID.



This fluid gives excellent tooth for pencil and allows of much building up. Either soft or hard pencils may be used.

PRICE.

Per ounce bottle.....\$0.25

RED SABLE SPOTTING BRUSHES.

	6, each\$0.	
	9, each	
Nos. 10 to	12, each	15
	carry a full line of Brushes for th	
artist and	will be pleased to submit list on r	e-

quest.

TIN-BOUND BRUSHES.



Our brushes are thoroughly reliable, neat and strongly bound. The hair and bristles used in them is of the highest grade and especially selected, and made especially to meet photographic requirements.

PRICE.

1	-inch, black o	bristle, r white.	either\$	0.10
1	½-inch, black o	bristle, r white.	either	.15
2	-inch, black o	bristle, r white.	either	.20
2	½-inch, black o	bristle, r white.	either	.25
1	-inch,	Camels'	Hair	.25
1	½-inch,	Camels'	Hair	.40
2	-inch.	Camels'	Hair	.50
2	½-inch.	Camels'	Hair	.60

A new and practical process for coloring photographs. Absolutely transparent. Light-proof and air-proof. Incorporated in a specially prepared base which does not penetrate and injure the photograph. "Assur" Colors are manufactured by Chemische Fabrik auf Auctien, vorm E. Schering, Berlin-Charlottenburg, and supplied in neat metal boxes of 12 tubes of colors, 1 tube of color-medium (Malmittel), 1 linen rag, 2 rubber erasers, paper stumps, a color-scale and directions for mixing the colors, with suggestions for their proper use on certain subjects, and a white cardboard on which the colors may be mixed and tried.

And in neat metal boxes of 6 tubes of colors, 1 tube of color-medium and the other accessories mentioned above.

Aside from Black and White, 22 brilliant and absolutely transparent shades may be produced.

VELOX TRANSPARENT WATER COLOR STAMPS.

Owing to their peculiar self-blending quality, these colors are the simplest of all to use, working especially well with Velox. Prepared in 12 shades, in the form of paper leaves and bound into neat booklets, each color being preceded by a descriptive page. Colors when used may be replaced by new leaves.

PRICE

Velox Water	Colors	complete	hooklet	12
colors		complete		\$0.25
Price of outfit.				

CHISEL-POINT CAMELS' HAIR BRUSHES FOR APPLYING TRANSPARENT WATER

COLORS TO PRINTS.

No. 1	Fine	Brus	h i	for	For	egro	und.	 	.\$0.10
No. 2	3%-in	ch						 	15
No. 3	½-in	ch						 	20

RUBBER SET BRUSHES.

In process of manufacture the hairs or bristles of these brushes are seated in hard rubber and then vulcanized, doing away with any incon-venience arising from hairs coming loose

coming loose.	
PRICE.	
1 -inch, bristle, either	
black or white	0.20
11/2-inch, bristle, either	
black or white	.25
2 -inch, bristle, either	
black or white	.35
21/2-inch, bristle, either	
black or white	.45
3 -inch, bristle, either	
black or white	.60
31/2-inch, bristle, either	
black or white	.70
1 -inch, Camels' Hair	.38
1%-inch. Camels' Hair	.57
2 -inch, Camels' Hair	.75
21/2-inch, Camels' Hair	.95
3 -inch, Camels' Hair	1.35
3½-inch, Camels' Hair	1.90



SAVIGNY'S TRANSPARENT MOIST WATER COLORS.



These well and favorably known colors are put up in collapsible tin tubes and are of a paste con-

sistency (the same as artists' oil colors).

They are strong, durable, transparent and very pure in tone. They should not in any way be compared with liquid colors, which are simply washes, and are good only for staining.

The colorist will also find the Savigny colors to possess the following advantages: Great strength, great purity, great variety of shades, great convenience, great economy in use, great combining affinities, and great keeping qualities, and to be free from dust and grit.

These colors are especially prepared for lantern slides, photographs, portraits, landscapes and marine work, flower painting, etchings, photogravures, steel engravings, etc. They will combine with one another to produce the most delicate shades, or mix freely with any other make of the heavier colors.

PRICE.

No. 0. Pasteboard box containing 8 colors	\$\$1.00
No. 1. Polished cherry-wood box containi	ng
12 colors	1.85
No. 2. Same as No. 1, but 16 colors	2.50
Single tube	20
Perfect solution, 4 ozs., for collodion surface	ces .50
Perfect solution, 2 ozs., for collodion surface	es .25

Waterproof Drawing Inks.

U.S.

U. S. Waterproof Drawing Inks in their present perfect state are the result of not only a long series of careful scientific experiments, but also of exhaustive experience on the subject of drawing inks. The inks are waterproof, very smooth and even flowing, are permanent in color and uniform in density.

The Waterproof Black Ink is made of the highest grade of material, intense black, so that even the finest lines will be absolutely opaque, flows freely and even from the pen, dries quickly and is perfectly waterproof when dry, so that color washes can be made over it with perfect safety.

The Colored Inks are uniform and true in color and have a brilliant tone, while they are absolutely waterproof. They can be used for lines or washes, for the latter they can be thinned with pure water. They can be mixed with each other to produce other shades.

No. 2422. W				Each	T1 .	
9499 XX	-+			Lach	Each	Each
ATEL. VV	aterproof,	Black		\$0.25	\$1.60	\$3.00
	aterproof,				1.60	3.00
	aterproof,				1.60	3.00
	aterproof,				1.60	3.00
	aterproof,				1.60	3.00
2422E. W	aterproof,	Green.		25	1.60	3.00
	aterproof,				1.60	3.00
	aterproof,				1.60	3.00
	aterproof,				1.60	3.00
2422I. W	aterproof,	Vermili	on.	25	1.60	3.00
	aterproof,				1.60	3.00
2422L. W	aterproof,	Yellow.		25	1.60	3.00
	n-waterpre				1.60	3.00

HIGGIN'S.

Everybody knows the Higgin's Inks. They are standard the world over.

		Ounce	1/2 Pint
Waterproof,	Black	. \$0.25	\$2.00
Waterproof,	Blue	25	2.00
Waterproof,	Brown	25	2.00
Waterproof,	Brick Red	25	2.00
Waterproof,	Carmine	25	2.00
Waterproof,	Green	25	2.00
Waterproof,	Indigo	25	2.00
Waterproof,	Orange.	25	2.00
Waterproof,	Scarlet	25	2.00
Waterproof,	Vermilion	25	2.00
Waterproof,	Violet	25	2.00
Waterproof,	Yellow	25	2.00
	THE RESIDENCE OF THE PARTY OF T		

WHITE INK FOR WRITING ON BLACK OR DARK CARDS.

Price, per ½ oz. bottle	\$0.15
Price, per oz. bottle	25
Gold Ink, ½ oz. bottle	25
Silver Ink, ½ oz. bottle	25

PERMANENT CHINESE WHITE.

									2000																						90	5().	2	5	,
100	1	7	10.0	61	8	10.	633	1	li po	10		33	37	5.55	ж	7.	100	103	40	16	638		790	5.0		7	90	-	10		700		_	_	ī	•

Metallic Water Colors.

Gold and Silver, in Porcelain Saucers. Each. \$0.10

CRAYON SAUCE.

			Each
Conte's	Velvet	Crayon Sauce, in foil	\$0.05
Conte's	Velvet	Sepia Sauce, in foil	.05
	District Section 1 and 1		

CRAYON PENCILS, IN POLISHED CEDAR.

Conte's	No. 2	, Black,	extra	fine	(medium)	\$0.15
Conte's	No. 3	. Black.	extra	fine	(soft)	15

FRENCH CHARCOAL

Conte's Ordinary; in White and Green	By box boxes
of 50 sticks French Venetian; in boxes of 50 sticks	30
Rouget's Extra Fine; No. 1, 2 or 3; wrapped in tin foil; in boxes of 25 stie	ends cks50

EXTRA SOFT FRENCH PASTEL.

Each crayon wrapped in tissue paper. Put up	
in trays. Per box	
No. 1. Double size—two trays, two rows,	
containing 180 Crayons, assorted colors\$6.00	
No. 2. Full size, 134 Crayons, assorted col-	
Ors	
No. 21/2. 3/4 size, 90 Crayons, assorted colors. 3.25	
No. 3. ½ size, 64 Crayons, assorted colors. 2.25	
No. 4. 1/4 size, extra, 56 Crayons, assorted	
colors	
No. 5. ¼ size, 44 Crayons, assorted colors. 1.00	
The state of the s	
No. 6. 1/8 size, 30 Crayons, assorted colors60	

STRATHMORE BOARD.

Per shee	t, 30x40-inch	 \$0.50

ACADEMY BOARD.

Per sh	eet, 18x24-i	nch		\$0.30
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WHATMAN PAPER. PRICE PER SHEET.

Demy, C. P., 15x20-inch\$0.05	
mperial, C. P., 22x30-inch	
Double Elephant, C. P., H. P. and R., 26x40-	
inch	

FRENCH MOIST WATER COLORS, IN JAPANNED TIN BOXES.

I I	Cach
"Devoe," three color outfit No. 2, containing	
four cakes and two quill brushes	0 25
The "Rembrandt" Box, containing 12 Moist	
Colors in half pans, and Brushes	.50
The "Murillo" Box, small, containing 12 Moist	
Colors in pans, tubes of Sepia and Chinese	
White, and Brushes	.75
The "Murillo" Box, containing 16 Moist Col-	
ors in pans, Chinese White and Sepia in	
tubes, and Brushes	1.00

ARTGUM.

THE DRY CLEANER.

For Anything Made of Leather, Cloth or Paper. No Grit, No Grease, No Odor, No Danger from Fire. It Never Dries Out or Hardens.

Artgum removes surface dirt from everything without the use of water or any other liquid and does not change the color of nor injure the article rubbed with it.

Artgum renovates and cleans pictures, photographs, drawings, tracings, books, art specialties, burnt wood and leather work, etc.

PRICE.

Size 1x1x21/8	\$0.10
We also carry in stock:	
Letterine.	
W. & N. Water Colors in half-pans.	
W. & N. Oil Colors in tubes.	
Devoe's Academic W. C. in tubes.	
Drawing Boards, etc.	
Also K. & E. Engineers' and Architects	s' supplies.
Write us for their catalog.	

EASTMAN "FOUR-IN-ONE" GROUPERS.



These new groupers are not only perfect as groupers, but when not in use nest together, as shown in the illustration, thus taking up the minimum amount of space and likewise insuring the complete set being on hand when wanted. Made of good solid oak—finished in best mission style.

PRICE.

THE IDEAL GROUPING STOOLS.



This combination of stools forms a grouping arrangement of the highest grade. Being made of twisted steel rods they are very strong, compact and durable. The metal work is finished in antique copper, which in combination with the polished oak seat, gives the stools a handsome appearance.

No. 1 is 12 inches high; No. 2, 18 inches, and No. 3, 24 inches. Price, any size, each....\$1.25

CHILD'S POSING CHAIR.

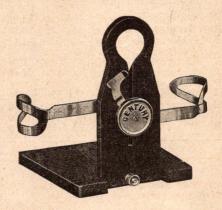


This Chair is the most practical and serviceable child's chair on the market. It is made of steel, plated and copper oxidized, and presents a very artistic appearance. The height from the floor to the seat is 11½ inches.

PRICE.

No.	5. With	oak seat	. \$2.50		
No.	6. With	plush seat	. 3.00		

THE CENTURY BABY HOLDER.



Rear View.

There is probably no single studio accessory that will prove as valuable to the portrait operator as the Century Baby Holder. This holder is constructed so that it holds the child firmly and gently in any desired position; the side arms being adjustable both as to "spread" and height. The large base allows the holder to be placed in any position on a chair or table or on the floor without danger of tipping.

The adjustment of the Century Baby Holder is extremely simple. The wheel at the back is turned to loosen the side arms, allowing them to be adjusted to the separation required. The child is then placed in the holder and the side arms pressed together. A fold of the child's clothing is drawn through the opening in the top of the back standard and the metal clip swung into position over the cloth. This holds the baby in an easy and natural position. The wheel at the back is turned, fastening the side arms and clip in position.

The Century Baby Holder is finished in weathered oak; all metal parts being oxidized.

PRICE.

Century Baby Holder.....\$5.00

THE ELITE POSING CHAIR.



Elite Chair, Plush Seat

There is no one style of photographic posing chair which has had so steady a sale as the Elite. It is without question the best chair ever offered the trade for posing subjects for bust work. The Elite chairs are made from bent steel rods, and by reason of their construction they are practically indestructible, while in design and finish they present an elegance and sense of cleanliness. The seat of the Elite poser elevates and depresses by means of a screw, thus suiting height of the seat to the subject. By means of a clamp under the seat it can be held perfectly stationary when once properly adjusted, so that the subject will not be able to involuntarily turn the seat. The back is adjustable horizontally, as shown in the engraving. This ad-



Elite Chair, Oak Seat.

justment is controlled by means of a worm arrangement, and the adjustment is made by turning the knob under the seat. The back also raises and lowers by means of the clamp screw directly back of the seat. We supply this chair finished in antique copper with oak seat and back, or upholstered in plush or leather. It will be observed that our prices have been greatly reduced on this chair, which should make it even more popular than it has been, as perhaps some of our customers were prevented from ordering on account of the former price.

PRICE.

Antique	copper finish,	oak seat and back\$5.00	
Antique	copper finish	, plush and leather seat and back	



THE PERFECTION POSER.

The G. &. T. Poser is so well illustrated in the accompanying engraving that but little more need be said. The back is the proper size for bust work, and is adjustable for height. Can be inclined and moved in or out, as shown by the dotted line in the illustration.

The seat may be raised or lowered by the center screw.

They are finished with solid wood seat and antique copper wire back and base, and also upholstered in leather.

PRICE.

Solid wood seat			
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METAL STANDS.



Backgrounds



E make a specialty of Backgrounds, our line representing the best designs obtainable from the foremost studios of the country, which we sell at the lowest possible prices.

We do not list our full line herewith, as space forbids, but illustrate a careful selection of practical and useful designs. Complete background catalogues will be sent to anyone on request.

In placing orders for Backgrounds, be careful to specify all the necessary information—number of design, height and width of ground proper, and if floor extension is wanted, give length of same, also state whether extension is to be painted in oil or water color. Be sure to state whether design is wanted as Illustration, or reverse of same, as a misconception of the use of term right or left is the cause of many errors. Also state shade of ground desired, light medium or dark tone.

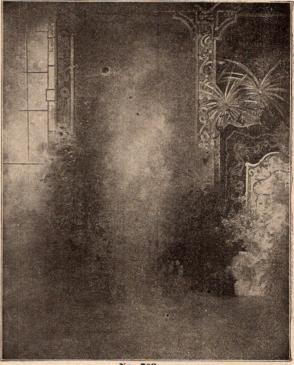


Price	Size.	With 7-foot Water-Color Extension.	With 7-foot Oil-Color Extension.
6x 8 feet	\$7.20	\$ 9.72	\$11.40
8x 8 feet	7.68	11.04	13.28
8x10 feet	9.60	13.80	16.60



No. 657.

Price	Size	With 7-foot Water-Color	With 7-foot Oil-Color
6x 8 feet	\$7.20	Extension. \$ 9.72	Extension. \$11.40
8x 8 feet		11.04	. 13.28
8x10 feet	9.60	13.80	16.60



No. 702,

Other sizes, 8x8 or larger, per square foot\$	0.12
Other sizes, smaller than 8x8, per square foot.	.15
Water-color extension, per square foot	.06
Oil-color extension, per square foot	.10
For sail-cloth add to prices listed, per square	
foot	.10



No. 659.

Price.	Size	With 7-foot Water-Color Extension.	With 7-foot Oil-Color Extension.
6x 8 feet	.\$6.00	\$ 8.52	\$10.20
8x 8 feet	. 6.40	9.76	12.00
8x10 feet	. 8.00	12.20	15.00



696.

Size.	Price.	With 7-foot Oil-Color Extension.	With 7-foot Water-Color Extension.
6x 8 feet	\$7.20	\$ 9.72	\$11.40
8x 8 feet		11.04	13.28
8x10 feet		13.80	16.60



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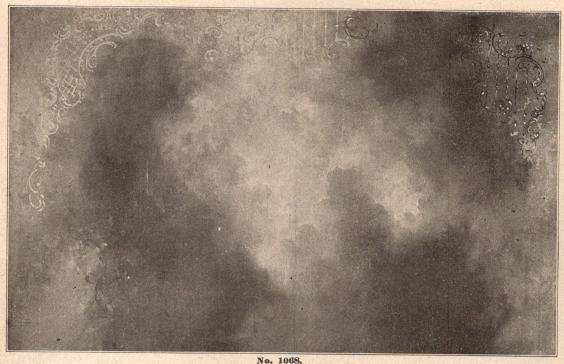
			1401 00	Co.	
				With 7-foot Water Color	With 7-foot
	S	ize.	Price.	Extension.	Oil Color Extension.
6x	8	feet.	\$7.20	\$ 9.72	\$11.40
8x	8	feet.	7.68	11.04	13.28
8x1	10	feet.	9.60	13.80	16.60



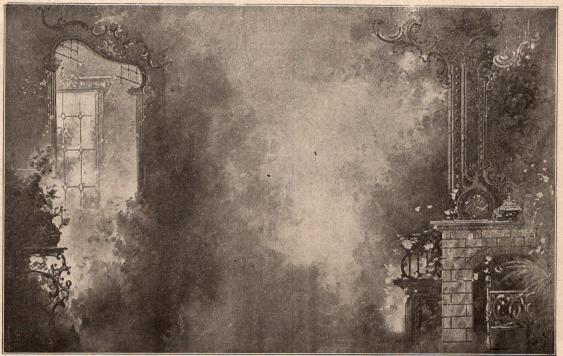
No. 697.	
Other sizes, 8x8 or larger, per square foot\$6	0.12
Other sizes, smaller than 8x8, per square foot.	.15
Water-color extension, per square foot	.06
Oil-color extension, per square foot	.10
For sail-cloth add to prices listed, per square	
foot	.10



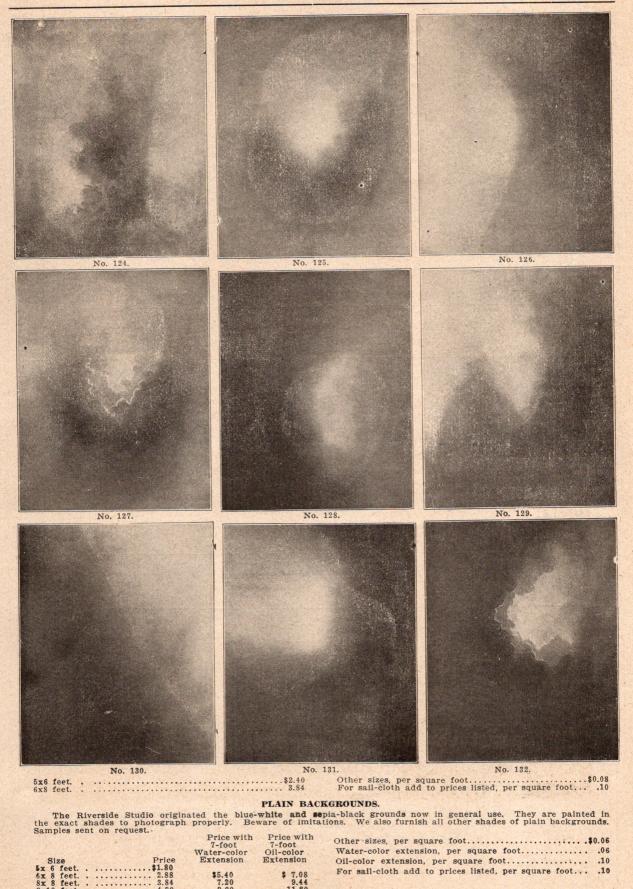
140, 000,	
Other sizes, 8x8 or larger, per square foot	\$.12
Other sizes, smaller than 8x8, per square foot.	.15
Water-color extension, per square foot	.06
Oil-color extension, per square foot	.10
For sail-cloth add to prices listed, per square	
foot.	.10



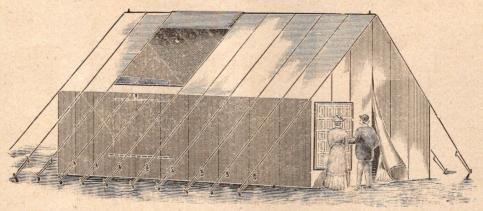
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	Size	Price	With 7-foot Water-Color Extension.	With 7-foot Oil-Color Extension.	Other sizes, per square foot
8x10	feet.	\$ 9.60	\$13.80	\$16.60	Oil-color extension, per square foot
9x12	feet.	12.96	18.00	21.36	For sail-cloth add to prices listed, per square
10x14	feet.	16.80	22.68	26.60	foot
10x16	feet.	19.20	25.92	30.40	.10



				1069.
Size	Price	With 7-foot Water-Color Extension,	With 7-foot Oil-Color Extension.	Other sizes, per square foot\$0.12
8x10	feet \$ 9.60	\$13.80	\$16.60	Water-color extension, per square foot06
9x12	feet 12.96	18.00	21.36	Oil-color extension, per square foot
10x14	feet 16.80	22.68	26.60	For sail-cloth add to prices listed, per square
10x16	feet 19.20	25.92	30.40	foot



PHOTOGRAPHER'S TENT.



Prices on tents fluctuate. We will give the purchaser the benefit of market price at time of purchase. Our dark rooms are made of brown or black duck and lined with red canton flannel. Dark room, 6x6 feet, \$22.50 and 4½x4½ feet, \$17.00 extra.

These prices include poles, guys, stakes, skylights, etc. Present discount, 30 per cent only. Subject to change without notice.

SIZE, Feet	Height of Pole, Feet	Height of Wall, Feet	8-oz. Duck Single Filling	10-oz. Duck Single Filling	10-oz. Double Filling or 8-oz. Army Duck	12-oz. Double Filling or 10-oz. Army Duck	Net price extra for Dryduck to be added after deducting discount
12x14	11	6	\$26.50	\$31.00	\$36.50	\$41.00	\$2.80
12x16	11	6	29.50	33.00	39.50	45.00	3.00
12x18	11	6 6	32.00	37.50	44.50	51.00	3.20
12x21	11	6	36.00	41.50	49.00	56.00	3.50
12x24	11	6	, 40.00	46.00	54.00	62.00	3.70
12x28	11	6	46.00	53.00	63.00	71.00	4.50
12x30	11	6	49.50	57.00	67.00	76.00	4.65
14x16	12	6	33.00	39.00	47.00	53.00	3.45
14x18	12	6	35.00	41.50	49.50	56.50	3.65
14x21	12	6	40.00	46.50	55.50	62.00	4.15
14x24	12	6	43.50	50.50	60.00	68.00	4.50
14x28	12	6	49.50	57.50	68.00	78.00	5.00
14x30	12	6	53.50	62.00	73.50	83.00	5.25
16x18	13	6	39.00	45.50	54.50	62.00	4.15
16x21	13	6	41.00	51.50	61.00	69.50	4.60
16x24	13	6	48.00	56.00	66.50	75.50	5.00
16x28 ,	13	6	54.00	63.50	75.50	85.50	5.65
16x30	13	6	58.50	68.00	81.00	91.50	5.85

Dark room, 6x6 feet, \$22.50, 4x6 feet, \$19.50, and 4½x4½ feet, \$17.00 extra.

Our dark rooms are made of brown or black duck and lined with red duck. These prices include poles, stakes, guys, skylights, etc. Our Photo Tents have wall poles.

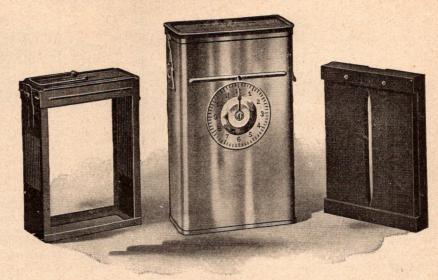
ONSULT us when fitting up a new studio or making changes in your equipment. We are able to assist you with advice and suggestions in choosing apparatus, aside from any interest we may have in selling you.

We thoroughly understand the needs of the photographer. Let us help you.

THE EASTMAN PLATE TANK.

The Eastman Plate Tank is the simplest and most convenient device on the market for the employment of the time and temperature method of development for dry plates.

The Eastman Plate Tank consists of a metal solution cup with tightly fitting cover, permitting the entire tank to be reversed during development, a rack or cage for holding the plates during development, and a simple loading block for loading the plates into the rack in the dark room. The exposed plates are loaded into the rack and placed in the tank in the dark room, and the tank cover fastened in place. As soon as the plates have been lowered into the de-



veloper, the time is noted by watch or clock, and the hand on dial on front of tank set to indicate time when development will be complete. Development is allowed to continue for a specified time according to strength of developer used. After development, the developer is washed out of the plates and fixing may then be carried on in daylight. Tested formulas are supplied with the tank.

PRICE.

Eastman Plate Tank, 4x5 (will also take 3¼x5½ and smaller plates) includes Solution Cup, Plate Cage, Loading Block and Adjustable Kit\$ 3.50	
Cage, Loading Block and Adjustable Kit	
Do., 5x7, without Kit	
Do., 5x7, without Kit	
use With 6/2x6/2, 5x1, 4/4x6/2 that 1/4x6/2 plates	
Adjustable Kit for 4x5 of 54x572 Tank, to take 34x542, 44x642 and 43x642 plates, each	
Kits for 5x7 Tank, to take 3/4x5/2, 4/4x6/2 and 4/4x5/2 places, each.	
Adjustable Kit for 8x10 Tank	

THE PREMO FILM PACK TANK.



Inserting Films in Receiver.

The Premo Film Pack Tank is designed for developing Premo Film Pack films, and the ordinary cut film.

This Tank, which is supplied by the Rochester Optical Division, is composed of two parts-the tank or solution cup, and a metal receiver or frame for the films. The receiver is strongly constructed of brass and is divided into twelve compartments, (in the 5x7 size six) each accommodating one film. As the films are removed from the pack they are held between the thumb and finger, slightly bent from top to bottom and slipped one into each compartment in the receiver. When filled, the receiver is placed in the tank, which has been previously filled with developer, the top fastened on and the films left to develop for the required time. No further attention is necessary, except to reverse

the tank end for end a few times during development. When development is completed the films are removed for fixing.

Premo Film Pack Tank, No. 1, for 12 1%x2%, or 21/4x31/4 Films	\$1.25
Do., No. 2, for 12 2½ x4¼, 3¼ x4¼, 3x5¼, 3¼ x5½ or 4x5 Films	3.50
Do., No. 3 for 6 5x7 Films.	4.00

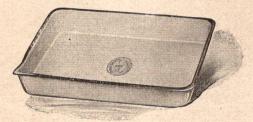
DEEP WHITE PORCELAIN TRAYS.



These Trays are made of strong, heavy porcelain with highly glazed surface. They are the correct thing to use for toning and washing prints, as it can be detected instantly if they are not perfectly clean.

						1	P	R	1	(D											
4 % x 5 %.																				\$	0.50	
5 1/2 x 7 1/2.																					.60	
6 x 8 .																					.70	
7½ x10½.																					.80	
8 1/8 x 10 5/8.																					1.00	
10 x12 3/8.													 X								1.65	
12 1/2 x 15 3/8.																			1		3.00	
14 % x17 %.					*							 									5.00	
17 x211/2.																					7.00	
201/2 x 24 3/4.]	10.00	

ENAMELED STEEL PHOTO TRAYS.



Enameled Steel Photo Trays—acknowledged by all experts to be the best Photo Trays now produced—are furnished with a quadruple coat of enamel on armor plate steel, bottoms of trays are flat, depth good, and the perfect lip on each tray allows the user to pour liquid into the smallest bottle without the slightest trouble. Trays are free from bubbles and other such defects and are thoroughly acid proof.

For Plates. Full Size. Depth.	
4x 5 43/8 x 53/8 11/4 \$ 0.2	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0
7×9 $7 \times 9 \times 2 \times 9 \times 2 \times 15 $	75
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0
114x17 15 x17¾ 2½ 3.7	5
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
18x22 19 x23 2¾ 7.0 20x24 21 x25 3 8.0	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	

AMATEUR STEEL ENAMELED TRAYS.

Amateur Steel Enameled Trays are made of the same steel and in the form as Ingento Trays. They are quadruple coated with blue enamel which, although less expensive than the white, is equally chemical proof. They are, without doubt the best and most economical Tray for the amateur.

			PRICE.
For	plates	5x7;	each\$0.35
For	plates	4x5;	each

R. O. C. HARD RUBBER TRAYS.

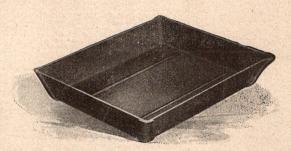


For most purposes these Hard Rubber Trays are the best, as they are made of pure rubber (vulcanized). They cannot be attacked by any acid or chemical. They will last a lifetime, although constantly used. They are light and strong, and if accidentally broken can be repaired by revulcanizing. Where Trays are in constant use, these will be found the most economical.

They are made in two grades up to and including the 12x16 sizes, the difference being in the depth of the respective Trays, the R. O. C. being the more shallow of the two.

Size.									I	r	ic	ee	Each.
41/4 x 51/4.		 								•			.\$0.55
54x 74.													
5½x 8½.													
7 x 9 .													
8½ x10½.													
10½ x12½.													
12 x16 .		 	 										 . 3.30

STANDARD DEEP HARD RUBBER TRAYS.



Size.																				T	2 22		26	200	T	lac	h	
4 1/4 x 5 1/4.						27				111						ğ			1	1		1		,	\$		72	
5 1/4 x 7 1/4.																											90	
5½ x 8½.	1																									1.		
7 x 9 . 8 1/2 x 10 1/2.		• •		•																							$\frac{30}{65}$	
10 % x12 %.																											25	
12 x16 .																										3.	75	
15 x19 . 18 x22																										6.		
18 x22 . 19 x23			•		100	57		80	928	7		-	•	886		9			3.7			4				8.		
21 x26 .																										11.		
	(CBG)						1	1			20			(6)	3	Ē		13	6				100	800	7000	5/201	300	

When ordering please specify the kind wanted, otherwise we will send R. O. C.

INGENTO RUBBER TRAYS.

These Trays are made of genuine hard rubber, polished smoothly, and finished dead black. They are very light in weight, but are very tough and cannot be broken if accidentally dropped. Made only in sizes 4½x5½ and 5½x8½.

							I												
4½ x5½. 5½ x8½.			 														\$0.3	30	
$5\frac{1}{2}$ x $8\frac{1}{2}$.																	.5	50	

INSULATE TRAYS.

(Patented Design)



This tray is constructed on entirely different lines from the common photo tray, and is much superior in every way to the ordinary composition article. The chief point of distinction is the ANTI-SPLASH feature. This is ensured by the construction of the sides which are made slightly sloping, up to within one-half inch from the top; and the edge or border of about one-half inch in width extending all around the tray is perfectly square, and is placed at a right angle to the bottom. This method of construction prevents the solution from spilling when the tray is rocked. These trays are made of a highly finished and polished vulcanized composition that is used very extensively as a substitute for hard rubber in the electrical lines. They will stand the action of the strongest acids, soda, alcohol, or any other chemical used in photography. They will not discolor, nor will they dissolve by action of chemicals. They are not varnished or coated, but are made of one solid mass of the same material throughout, and are entirely seamless.

All Insulate Trays have an outpour lip to fit readily into the mouth of a bottle, ensuring against spilling the chemicals; also the interior corners are rounded (dished) so that no sediment can accumulate, allowing the tray to be easily cleaned. They also have little projections on the bottom to allow the finger or plate lifter to engage firmly underneath the plate to remove it.

4x5	\$0.25 35	61/2 x 81/2	\$0.60
5x7		8 x10	

PROBUS ENAMEL.

Probus is an acid, alkali and water-proof paint. It is indis-senpable to the photographer, being adapted for coating trays. tanks and fixing boxes; painting dark room walls, shelves and floors, or water-proofing home made trays. This article is supplied in liquid form ready to use, is jet black in color, easily applied and dries quickly with a durable bright gloss.

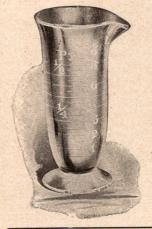


Price,	per	½ pint can	\$0.35
Price,	per	pint can	65
Price,	per	quart can	
Price	ner	1/2-cal can	

Price,	per	quart ca	n	 	 	1.00
Price,	per	½-gal. ca	an			1.65
Price,	per	1-gal. car	n			3.00

PERFECTION ENGRAVED GRADUATES.

These graduates are made of strong first quality glass. Markings are carefully engraved.



PRICE.

1	dram .	 \$0.20
1	ounce.	 .20
2	ounces	 .20
4	ounces	 .25
8	ounces	 .40
16	ounces	 .60
32	ounces	 1.25

PERFECTION TUMBLER GRADUATES.



These graduates have pressed lines and figures and are accurately graduated.

PRICE.

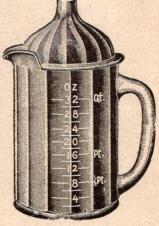
2	ounce												\$0.0	18
4	ounce									18			.1	0
8	ounce												.1	.5
16	ounce												.2	15
32	ounce						*						.6	0

PERFECTION MEASURING JUGS.

Made of strong, clear glass with moulded graduations from 4 to 32 ounces. The removable top, when inverted, may be used as a funnel.

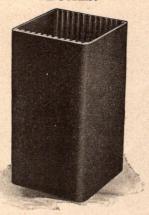
PRICE.

Perfection Measuring Jug.\$0.50



Do not mutilate this catalogue by cutting out illustrations. The name. size or page number will be sufficient for us to know what is wanted.

EASTMAN HARD RUBBER FIXING BOXES.

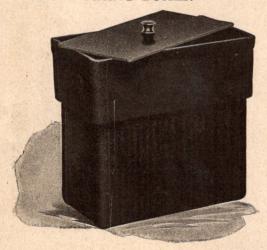


These boxes are made of heavy hard rubber, each size holding one dozen plates. The ribs are finished smooth, avoiding scratches and making the boxes easy to clean. A ridge at the bottom keeps the plates above any sediment that may collect.

PRICE.

3	1/4 x 4 1/4															. 8	2.50
4	хō					 1											2.75
4	1/4 x 6 1/2																2.90
5	x7																3.35
5	x8																3.65
6	1/2 x 8 1/2																4.50
8	x10		100														5.00
11	x14					 3											7.75
14	x17																11.00

"UNIVERSAL" HARD RUBBER FIXING BOXES.



Unlike our regular Fixing Box, the "Universal" has grooves on each side which admits of several size plates being fixed.

The smaller ones being placed across the box.

A dust cover is provided which also saves loss by evaporation.

Best Rubber Only Used.

No. 1, allows of 22 3½x4½, 4½x5½, 4½x6½ or 10 6½x8½ plates being fixed at one time..\$5.20 No. 2, allows of 24 4x5, 5x7 or 5x8 or 12 8x10 plates being fixed at one time........... 6.00

FIBRE FIXING BOXES.



These fixing boxes are of a special composition, and are chemical proof and exceedingly durable.

PRICE.

No. 1, $4x5$ (12—4x5, $3\frac{1}{4}x4\frac{1}{4}$ or $3\frac{1}{4}x5\frac{1}{2}$)\$1.	25
No. 2, 5x7 (12—5x7 or 12—4x5)	75
No. 3, 8x10	50
No. 4, 8x10, with partition (for all size plates	,,
up to 8x10)	00

DURANOID FIXING BOXES.

This box is made of a composition of chemical proof material which is vulcanized like hard rubber. It is made of one solid mass of the same material throughout, not coated or varnished. It will stand the action of hypo in solution in any form, plain or acid. It is made to take twenty 4x5 or twolve 5x7 negatives.



twelve 5x7 negatives. It is the neatest and most practical box ever offered.

GLASS FIXING BOXES.

These boxes are made of heavy glass and are very desirable, as they are easily cleaned and are of neat appearance. Each box will hold 12 plates. Made in two sizes only—4x5 and 5x7.



	1. For												
No.	2. For	5x7	plates									2.00)

GLASS MORTARS AND PESTLES.

Heavy glass, with smooth round edges.



										E										
1	ounce																		\$0.1	5
2	ounce																	1	.2	0
4	ounce																		.2	5
8	ounce																		.3	5
	ounce																			0
32	ounce																		.7	5

GLASS FUNNELS.

Plain and patent fluted. The patent fluted funnels are most desirable when using filter paper.



PRICE.

			Plain	Fluted
1/4	pint	102	.\$0.12	\$0.12
	pint			.15
1	pint		20	.20
1	quart		25	.30
1/2	gallon		40	.45

THERMOMETER STIRRING ROD.

A happy combination of two work-room necessities. A solid glass stirring rod ¼ inch in diameter and 9¼ inches long, enclosing a specially tested accurate and reliable thermometer. One end of the rod is flattened for crushing purposes. Invaluable as a time saver, as the temperature may be determined at the time the chemicals are dissolving. Packed in neat wooden box. box. Price.





No. 1.

IDEAL THERMOMETER

This Thermometer is made especially for photographic use. mounted on a metal plate which has two springs to hold it in the photographic tray so that the temperature of the bath may be ascertained while prints are being toned. Price, each.\$0.25



Ideal No. 1.

THE EASTMAN THER-MOMETER.

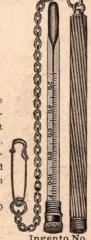
Indispensable in tank development. Made with curved back to fit inside of tank, and with hook to suspend it by.

Figures and degree marks easily read. Price.\$0.50

INGENTO THERMOMETER No. 2.

This Thermometer is of the highest grade, equal in sensitiveness to a clinic thermometer. It is very convenient for ready use, as it can be carried in the pocket. Supplied in a nickel-plated case with chain and safety pin attached.

Price, each. \$0.50



Ingento No. 2.

GLASS STIRRING RODS.

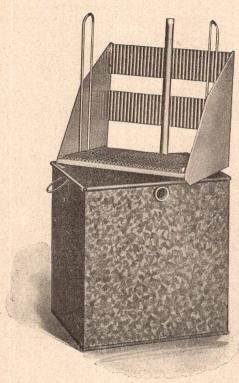
These are the best white, hard Glass Stirring Rods, with flat ground ends. The flat ground ends are of great advantage in grinding undissolved chemicals.

8-inch.																		 \$0.0	5	
0-inch.																		.1	0	
2-inch.																		.1	5	

EASTMAN HARD RUBBER STIRRING ROD.

Made of pure hards rubber molded around an aluminum wire center, Unbreakable, acid and chemical proof. Ten inches in length.

R. O. C. NEGATIVE WASHERS.

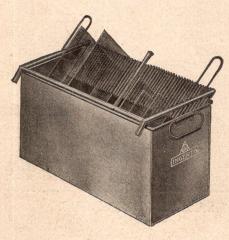


These washers are constructed of extra heavy zinc, and made in two parts, the tank and plate rack being entirely independent, so that if desired the plates need not be handled after washing, but allowed to dry in the rack after its removal from the tank. In washing, the water is forced to the bottom of the tank, flowing out at the top, thus providing for quick and thorough washing.

PRICE.

R. O. C. Negative	Washer, 4x5, for 25 plates\$1.	75
Do., 5 x7 for 25	plates 3.	75
Do., 6½x8½ and	8x10, for 30 plates 4.8	50

INGENTO PLATE WASHER.



An innovation in professional washing apparatus. Its distinctive features place it at the head of all wash boxes. The Ingento Washing Boxes will wash at one time any size negatives smaller than the largest size for which they are made. The cuts fully illustrate the method by which this is accomplished.

It will also be seen that the inside rack is tilted so that it is impossible for the plates to be disturbed while washing. The water enters the box through two long tubes, which extend the full length of the box, one on each side. The tubes are perforated with holes every one-half inch so that a stream of water is forced between each plate, thus insuring quick, perfect and uniform washing of each plate.

The inside rack can be lifted up and placed on top of the box so that the plates can be drained and dried as is shown in illustration. The 4x5 size is made entirely of zinc, but the larger sizes are made of galvanized iron and are built extra strong to accommodate the large volume of water and increased weight of plates.

No.	1.	For	25	plates	4x5	or	smaller\$1.7	15
No.	11/2.	For	25	plates	5x7	or	smaller 3.1	75
							smaller 5.0	
No.	3.	For	100	plates	5x7	or	smaller 7.6	50
No.	4.	For	30	plates	8x10	or	smaller 4.5	50
No.	5.	For	30	plates	11x14	or	smaller 6.0	00

THE IDEAL ADJUSTABLE ZINC WASHING BOX.



The Ideal Washing Boxes are the only practical washing apparatus for amateur use ever manufactured.

This washer is perfect in its construction. The water enters through the inlet tube and is carried to the bottom and is circulated over the whole area of the box, thus insuring uniform washing of the plates. It is carried off through the outlet tube. The water can be carried to the box by attaching a rubber hose from the faucet to the inlet tube, or the box can be placed under the faucet and the water allowed to run into the funnel. We guarantee that you can wash twenty 4x5 negatives in fifteen minutes in our washer.

The corrugations are extra deep and extend from the top downward, as will be seen in the cut. One of the many good features, and one that had helped greatly in making our washers so celebrated, is our patent lifting bottom. By means of the rod in the center, the perforated bottom can be lifted up as high as the bottom of the corrugations; this brings the plates above the top of the box so that they can be held by the edge, thus removing all danger of scratching the films.

Where running water cannot be procured, this is still the "Ideal Washer." It will be seen that the inlet tube enters from the top, which allows the box to remain full of water, so that by filling and emptying the box a few times and allowing several minutes between each operation, plates can be thoroughly washed.

This washer is constructed of heavy zinc throughout. The lifting bottom can be taken out if necessary.

All of these boxes are adjustable for any size plates smaller than the largest size mentioned, by means of an adjuster which can be supplied at 20 cents each for all sizes, except No. 5, which is 30 cents.

PRICE.

No.	0.	For	Plates	31/4 x 41/4,	, 3¼x4, or 3¼x3¼\$1.1	5
No.	1.	For	Plates	3½x3½,	or 3½x3¼ 1.1	5
No.	2.	For	Plates	4 x5	and 5x7 1.2	5
No.	21/2.	For	Plates	31/4 x51/2	1.2	5
No.	3.	For	Plates	31/4 x41/4,	$4\frac{1}{4}x^{4}\frac{1}{4}$, or $4\frac{1}{4}x^{6}\frac{1}{2}$	15
No.	4.	For	Plates	5 x7	and 6½ x8½ 1.7	5
No.	5.	For	Plates	61/2×81/2	and 8x10	0

Rubber hose suitable for these boxes, 10 cents per foot.

INGENTO PRINT WASHER.

(Patented.)

This print washer employs some scientific principles that have never before been applied for such a purpose, and the result is a washing apparatus in which the prints are thoroughly and separately washed without requiring the slightest attention during the operation.

The somewhat eccentric motion that is imparted to the body of water within the washer has the peculiar faculty of separating the prints from each other and keeps each one of them in separate motion and in constant contact with a fresh supply of water. For this reason they are thoroughly freed from every trace of Hypo and, at that, without requiring the slightest attention after they are placed in the washer.

A relatively small supply of water is required to operate this appliance as part of it is taken up from that which has

already been admitted, thereby not only sustaining its constant motion, but also modifying and reducing the violence with which the fresh water enters through the supply pipe and protecting the prints from all injury.

Other manufacturers have copied this design, but they do not contain the patented features—beware of imitations.

No. 1	Size. 4x5 5x7	Diam. inches. 9 12	Price. \$1.25 1.75	No. 3 4	Size. Diam. inches. Professional 16 Professional 20	Price. \$3.00 4.25
No. 5.	Professional size	, 24 inch diamete	r			\$6.00



ROUNDS PRINT WASHER.

Working perfectly with the exceedingly low pressure of twelve pounds, the prints are kept in constant motion, and do not mat together.

The washer has a capacity of 100 5x7, or 150 4x5 or smaller

This washer consists of two compartments, one or both of which may be used at one time.

The pipes supplying the water run parallel to the partition which divides the print washer, as shown in the illustration. Each pipe is provided with a row of perforations on the under side, through which water in little jets is supplied to each compartment

side, through which water in little jets is supplied to each compartment.

The shape of each compartment is such that the water entering on each side of the dividing partition takes on a swirling motion when the tank is filled, keeping the prints moving and separated until the water is turned off, thus giving them a thorough washing without danger of bruising or tearing the prints.

The swirling motion also prevents the prints from leaving the tank with the overflow, and a batch of prints placed in this print washer will wash thoroughly without further attention.

The print washer is to be placed in the sink and attached to the faucet with a rubber hose which slips over the supply pipe union.

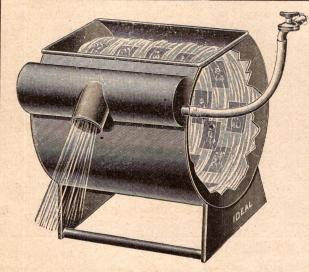
This washer is substantially constructed of the best grade of zinc, with brass and galvanized piping, and will not rust. Dimensions: Height, 9½ inches; width, 23 inches; length, 20½ inches. With ordinary care it will last for many years.

Thorough washing is necessary to obtain absolute permanency in prints, and the Rounds Print Washer is a convenient and reliable means of accomplishing this end.

PRICE.



Rounds Print Washer.....



IDEAL PRINT WASHER.

The Ideal Print Washer stands supreme as the only perfect print washer on the market. The prints are made to revolve by simply turning on the tap. The motion is nerpetual as long as the water lasts. The inlet pipe runs the full length of the box, and is perforated with a series of holes through which the water is forced against the side of the washer, and is made to revolve round and round, carrying the prints with it.

This is the quickest and most perfect method of washing prints. It is impossible for any print to stay at rest a minute, and the outlet is so arranged that, should a print try to make its escape with the out-going water, it is speedily forced back to continue its circuitous journey.

The speed at which the prints are made to revolve can be regulated at the tap.

Nos. 1 and 2 washers are made of heavy zinc throughout.

Nos. 1 and 2 washers are made of heavy zinc throughout.

Nos. 3 and 4, which are for professional use, are made of galvanized iron.

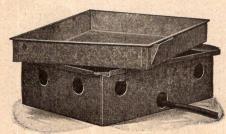
The No. 1 size can wash fifty 4x5 prints at one time in twenty minutes.

PRICE.

		Length	Diameter	Price
No.	1	. 9 inches	9 inches	\$2.00
No.	2	.12 inches	12 inches	2.75
No.	3	.18 inches	15 inches	6.00
No.	4	.24 inches	18 inches	9.00

TONING BATH HEATER.

Heater with water compartment removed.



With this most efficient device the toning solution can be kept at a more even temperature, and good tones secured with greater certainty and comfort than by any other means.

The lower compartment is a shell of galvanized iron and is so arranged that a gas plate may be placed in the center.

The water compartment is also of galvanized iron and fits sugly into the lower compartment, and is made to hold the regular stock size 12x16 and 16x20 steel enameled trays, the rim resting on the edges of the water compartment.

PRICE.

For 12x16 Tray (not including tray, gas plate or thermometer) For 16x20 Tray (not including tray, gas plate or thermometer)

New improvements are being constantly added to the photo supply family. In this catalog we list every device known to us, but we can furnish any specialty or apparatus that is mentioned in any other catalog. If what you need is not listed here write us about it. We can get it for you—probably to your advantage.

EASTMAN PRINT PADDLE.



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HYDROMETERS.

A Hydrometer is an absolute necessity if you make up your own solutions, especially of soda mixtures, as different sodas vary greatly in strength. Our Hydrometers have especially long tubes, which make them sensitive to the slightest variation in the specific gravity of the solution under test. Directions for use with each Hydrometer.

Price, including jar.....\$0.35

INGENTO HYDROMETER.

This will be found a handy Hydrometer. No glass jar is required. After the solution has been mixed up in the graduate, the Ingento Hydrometer is simply plunged in it and the strength ascertained at once, thereby saving time and trouble. We guarantee them as accurate as the higher priced hydrometers.

The cut is two-thirds full size. Each hydrometer packed in a round wooden box.

Price, each.....\$0.25



HARD RUBBER DIPPERS.

These dippers are made of genuine hard rubber and will not affect the solution in any way. Used to facilitate the handling of wet plates in conjunction with the German glass baths.

No.	Size	Price
4	5x 7	\$0.50
	7x10	
	9x11	
	10x12	
7	12x16	
8	14x18	1.10
9	17x20	1.45
	19x24	

Extra Dipper Buttons, small, each, 15c; medium, each, 18c; large, each, 20c.

THE IDEAL RUBBER PLATE LIFTER.



This is a simple hard rubber lifter made in one piece with the necessary curves and tapered at the end that lifts the plate. It is simple and practical, and superior to others sold at a higher price.

Price, each\$0.05

EFFICIENT PLATE LIFTER.



This Plate Lifter is very similar to an ordinary open end thimble, with a pointed piece of metal soldered securely to it, as shown in the illustration. Heavily nickel-plated.

Price, each\$0.15

INGENTO PHOTO CLIPS.



Made of selected hardwood. A strong steel hook is inserted in one arm for convenient hanging. They are very useful for drying films, prints, etc.

Per	dozen.																	\$0.2	25	
Per	gross.																	2.5	50	

INGENTO FILM CLIPS.

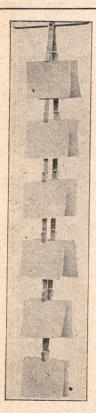


The Ingento Film Clips are made of strong spring brass, heavy nickel-plated. They are indispensable for handling films in developing, fixing and washing, as they obviate the necessity of touching the film with the fingers. For drying films they are equally valuable, as their own weight is sufficient to prevent the curling of the film. They are unaffected by photographic chemicals.

Price, per pair, 4 inches long.....\$0.25

EASTMAN'S FILM DEVELOPING CLIPS.

					PRIC					
Per	pair,	31/2	inch	1.						\$0.25
Per	pair,	5	inch	1.						.30
Kod	ak Fil	m C	lips,	5	inch	(wood),	per	pai	ir.	.15



FILM PACK DEVELOPING HANGER.

To all photo finishing departments employing the vertical tank system, the Film Pack Developing Hanger will prove indis-pensable. Each hanger will accommodate twelve Film Pack films; the film being fastened to the clips as shown in the illustration, and then doubled over the suspension rod of the tank, by means of a hinge in the center.

After development the films in the hanger are washed to free them from surface developer, and then suspend in the fixing and final washing tanks.

To dry the hanger is simply opened out, and suspended upon hooks, each film being a sufficient distance from the adjoining ones to avoid contact.

PRICE.

Film Pack Developing Hanger. \$1.25



PUSH PINS.



They consist of round tapered steel points, which are firmly embedded in transparent, crystal glass heads. They are strong and ornamental; supplied in packages of 6 pins. Per package of 6 pins, either size.....\$0.10

THUMB TACKS.

Pins Warranted Not to Push Through Heads. Standard Brass Thumb Tacks.



Nos. 2330-2340.

\mathbf{D}_{0}	Z.
No. 2330—Brass, round heads, % inch diameter	15
No. 2332—Brass, round heads, ½ inch di-	20
No. 2334—Brass, round heads, % inch dia-	
ameter	25
Do	Z.
No. 2336—German Silver, round heads, % inch diameter	0.0
No. 2338—German Silver, round heads, 1/2	20
inch diameter	25
inch diameter	35
No. 2341—German Silver, beveled heads, % inch diameter	25
No. 2342—German Silver, beveled heads, ½	35
No. 2343—German Silver, beveled heads, %	10
inch diameter	10

PUSH TACKS.

(MOORE'S)

A practical and convenient substitute for a common straight pin for decorative purposes. Will not bend nor break. The loop-head makes it easy to press them into wall or woodwork. Made in two sizes.



No. 7, per box of 4 dozen.....\$0.10

PUSH POINTS.



The points are of hardened needle steel and the heads of crystal glass. Excellent for drying prints and films.

Price, per box of 24.....\$0.10

PUSHLESS HANGERS.



This hanger consists of a tool-tempered steel point combined with a scientifically constructed brass hook. It solves the problem of hanging the heaviest pictures without disfiguring the walls. No. 25 will sustain 20 pounds. No. 28 will sustain 50 pounds. Neat and practical.

No. 25, small size, per packet of six.....\$6.10 No. 28, large size, per packet of three..... .10



CARD HOLDER.

(Steel.)



No. 37. CARD HOLDER. (Steel.)

Per gross. \$0.30Per gross. \$0.75 1 gross in a box. 1 gross in a box.

EASTMAN REVOLVING PRINT TRIMMER.

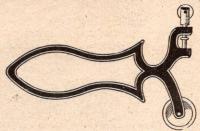


For trimming prints with cutting forms. Fine wood handle and tool steel cutting wheel. Post and wheel can be removed and new ones substituted when necessary.

PRICE.

Eastman	Revolving	Print	Trimmer		 	.\$0.50
	st and Wh					15

T. & E. COMBINATION TRIMMER.



EAGLE REVOLVING TRIMMER.



Eagle Revolving Trimmer No. 4, for cutting prints to oval and circle shapes. Every one is guaranteed perfect, being made from the best quality tool steel; polished hardwood handle, hardened and tempered bevel wheel and mickel plotted. nickel-plated.

Price, each\$0.35 Extra wheels and posts, each 20

INGENTO REVOLVING TRIMMERS.

No. 11.

All the bearings, cutting wheel, pin and other wearing parts of this trimmer are made of tempered steel. The post revolves on a group of steel balls. The cutting wheel is turned out of tool steel with a bearing \(\frac{1}{2} \)-independent of the flange and cutting wheel is turned out of tool steel with a bearing \(\frac{1}{2} \)-independent of the flange and cutting wheel, if can be adjusted to cut five different sizes with one form, so that the white margins on prints of four different widths can be made by its use.

The Trimmer is highly efficient, durable and almost frictionless, It is handsomely nickelplated and polished, and fitted witing polished mahogany handle. Price, \(\frac{1}{2} \)-independent of the flange and continual use and still give most perfect results with the least effort. The bearings are highly finished and accurately made. The cutting wheel is turned out of high Carbon steel and so constructed and tempered as to outlast a dozen other wheels, in the least effort. The bearings are highly finished and accurately made. The cutting wheel is turned out of high Carbon steel and so constructed and tempered as to outlast a dozen other wheels, handle.

Price. \(\frac{1}{2} \)-independent of the polished mandgany handle.

Price. \(\frac{1}{2} \)-independent of the polished mandgany handle, and the price as to outlast a dozen other wheels. Price.\$0.75 Extra Wheels, each.....\$0.25

NOS. 13, 14 AND 15.

The No. 13 is the most popular Swivel Trimmer made on account of its great efficiency and low price. The parts are accurately made and finely finished; the post is turned out of steel and the cutting wheel specially tempered to give the greatest service possible. They are handsomely nickel-plated, with hardwood polished handles.

PRICE. No. 13 Revolving Trimmer. \$0.25
No. 14 Combined Revolving and Straight Trimmer. 35
No. 15 Straight Trimmer 20

NOS. 16 AND 17.

These Trimmers are made after the pattern of the original model trimmers. They are made carefully and accurately of the best materials and will give perfect satisfaction. The handle is cast in one piece and is enameled black.

	PRICE.
No. 16 Swivel Trimmer	\$0.20
No. 17 Straight Trimmer	
Extra posts and wheels for No.	13. 14 and 16
Extra wheels for Nos. 14, 15 an	17
Extra wheels for Nos. 14, 15 an	13, 14 and 16

INGENTO TRIMMING BOARDS.



This series of Ingento Trimming Boards represents the very acme of perfection in trimming board manufacture. Not one point has been overlooked. This is a strong statement, but it is justified by fact.

The bed is of seasoned maple as wide as it is long. The supporting cleats are mitred into the bed. The finish is produced by hand-rubbing and is as smooth as a piano.

The blades are of the finest tool steel, properly tempered to insure a perfect cutting edge. The movable blade is hollow ground which makes it self-sharpening—a feature of the greatest importance in practical use.

The spring joint is so constructed that it gives the movable blade a slight lateral motion. The two

blades are in contact only where they cut. The result is clean cut edges every time.

The rule has one-eighth inch graduations and is set at a perfect right angle to the cutting edge.

The metal frame to which the lower blade is attached is part of the joint casting, making it impossible for the relative position of the blades to change.

PRICE.

No. 1.	6½-inch	blade\$1.25
NO. 2.	8½-1ncn	blade
110. 3.	10 /2-111CH	Dlade
NU. 4.	12/2-111CH	plade
No. 5.	15 -inch	blade
		1.00

THE POPULAR TRIMMER.

Extra strong and well-made; this trimmer also possesses a number of special features. The table is divided into one-half inch squares by lines cut into the wood and filled with enamel. The fixed blade is fastened to a strip of wood separated from the table by a space amply sufficient to allow for any swelling of the wood, and thus permitting the trimming of wet prints.

PRICE.

15-inch blade. \$7.00

THE POPULAR!

THE NATIONAL TRIMMER.



A most serviceable trimmer for all around studio use. Equipped with ruled table, adjustable joint and adjustable rule.

The strong eighteen-inch blade will cut tissue or the heaviest mount with ease and accuracy.

PRICE.

18-inch blade. \$11.00

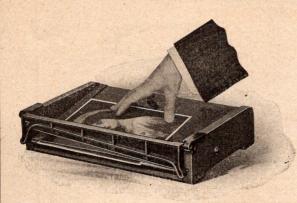
THE SPRINGFIELD TRIMMER.

This trimmer is the same in construction as the National Trimmer, only larger and proportionately stronger in construction. Twenty-four-inch blade.

PRICE.

24-inch blade......\$18.00

EASTMAN TRIMMING BOARD Nos. 2 AND 3.



A radical, yet thoroughly practical departure from the ordinary trimming board. Place the print in position on the board, and press down with the hand that holds the print. Cutting board provided with an accurate rule, and transparent trimming

PRICE.

Eastman Trimming Board No. 2, 121/2 in. blade .. \$4.00 Do., No. 3, 16 in. blade...... 6.00

EASTMAN TRIMMING BOARD No. 4.

The Eastman Trimming Board No. 4 is the same in principle as Nos. 2 and 3.

The No. 4 (twenty inch blade) is designed to handle large work, and is equipped with a foot treadle enabling the operator to use both hands in manipulating the print or sheet of cardboard.

The trimmer is secured to a table or bench by means of hinges at the back, and the front is equipped with the trimmer is secured to a table or bench by means of hinges at the back, and the front is equipped

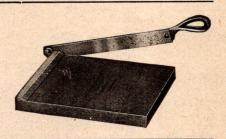
with adjustable braces, to provide any desired trimming angle.

Equipment also includes accurate rule and transparent trimming gauge.

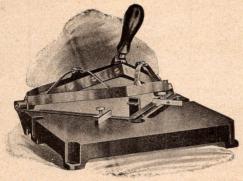
KODAK TRIMMING BOARDS.

This is a reliable trimming board at a moderate price, constructed of hardwood with natural finish; the blades are of the best steel, and a rule is fitted to the board for measuring prints.

No. 2, 7x7 in.....\$0.60 No. 1, 4x5 in.....\$0.40



THE EASTMAN MASK CUTTER No. 2.



This device ends all troubles in mask cutting. It cuts true and clean—is quickly and easily adjusted and will cut rectangular openings in the mask up to 10x12 inches or square openings up to 12x12.

The cutter has two cutting edges at right angles. Each cutting edge is marked in fractions from 1 to 12 and the size of the mask opening is regulated by sliding gauges.

After the gauges are set for the size wanted, take the piece of paper to be used for the mask and fold it one way and then the other.

The folded edges are then placed against the

gauges-the cutting die is brought down, and the mask is cut.

An automatic clamping device comes down in advance of the cutting die and holds the paper firmly in position. The cutting die and clamp are then raised by simply lifting the handle—the paper is removed and when unfolded you have an opening the size indicated by the gauges.

With the Eastman Mask Cutter it is no task to cut an accurate mask for any negative or set of masks for double printing. No more wasted time trying to cut true masks with a knife—no excuse for using untrue masks with bad corners.

The cutter can be fastened to a table or bench if desired or may be used without fastening, as the weight of the bed is sufficient to keep it in place during use. No delicate adjustments to regulate or to get out of order.

EASTMAN FORM HOLDERS.



INGENTO FORM HOLDER.

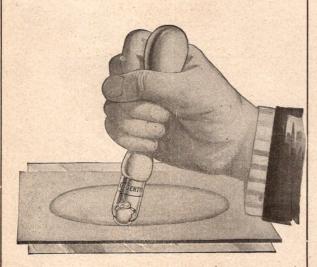


This Form Holder is made entirely of metal, and handsomely nickel-plated. The forms are quickly and securely held in the clamping lever which retains the same position and which facilitates the quick and accurate cutting of prints. The top plate is made of zinc and is reversible. Made in two sizes.

PRICE.

No.	1.	Size	of	Cutting	Bed	51/2 X	81/4	 	.\$1.00
No.	2.	Size	of	Cutting	Bed	8 x1	10	 	. 1.50

INGENTO EMBOSSING TOOL.



With the Ingento Embossing Tool sunk or raised center mounts can be instantly made with beautiful results, equal to machine embossing. There is no limit to the size or shape of the embossed centers, which are secured by the additional use of a metal form of the size and shape desired. In operation the photographic cardboard is simply placed over the form and the embossing tool is allowed to follow the edge of the form, sufficient pressure being applied to depress the cardboard, which can be of any thickness up to 16-ply. This tool is composed of a half-inch hardened steel ball which revolves on a series of small steel balls. The ball socket is of brass, nickel-plated and fitted to a polished hardwood handle.

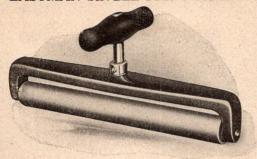
BRASS FORMS.

These forms are made of hard brass, ground smooth and polished.

The Price.

No. 0 Oval 1%x2	\$0.18
No. 1 Oval 2x234, old 1/4 Cabinet	.20
No. 2 Oval $3x4\frac{1}{16}$ $\frac{1}{4}$ Cabinet	.22
No. 3 Oval $3\frac{7}{16}$ x $4\frac{15}{16}$ Cabinet	.25
No. 4 Oval 2 16 x 3 7	.22
No. 5 Oval 3¾ x5¾	.25
No. 6 Oval 4¼x6	.25
No. 9 Circle 2¼ inches	.25
No. 10 Circle 3 inches	.25
No. 11 Circle 3¼ inches	.25
A Oval 17 x27	.20
B Oval 1% x31/8	.20
C Oval 2 16 x 5 16	.25
D Oval $1\%x^{2\frac{11}{16}}$.22
E Oval 2¼ x4	.25
F Oval 2½x5½	.25
G Oval 21/8 x 5 1/8	.25
H Oval 118 x3 16,	
J Oval $2\frac{3}{4}x5\frac{3}{16}$.25
K Oval 3½x63%	.25
L Oval 1%x211	.20
M Oval 2½x3½	.22
N Oval 1¼x1¾	.18
O Oval 4¼x6½	
P Oval 5x7	
Q Oval 6x8	
R Oval 7x9	
S Oval 8x10	1.50

EASTMAN SINGLE PRINT ROLLER.

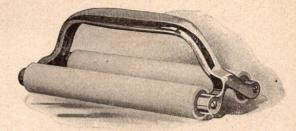


The strong handle set at right angles to the roller affords a strong grip, and makes this type especially effective for heavy work.

Ten-inch roller, covered with heavy, first quality white rubber, extra strong nickeled frame.

Weight, five pounds.

EASTMAN DOUBLE PRINT ROLLER No. 1.



A strictly first-class roller for professional use. Eight-inch rolls covered with first-quality heavy white rubber; both rolls hung exactly true, insuring perfect contact with the print. The solid, heavily nickeled handle affords a strong, firm

Weight, five pounds.

BALL BEARING SQUEEGEE ROLLER.

nickel-plated, Heavily best rubber roller. Mounted on ball bearings it runs with such freedom that mounting is a pleasure and prints never curl round the roller or get doubled up.

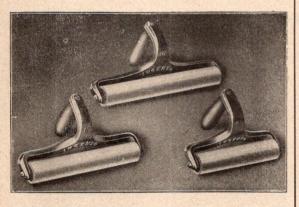
PRICE.

6-inch	roller.	 			 					Sir.	\$2	.00
10-inch												



INGENTO PROFESSIONAL ROLLERS.

Styles A and B.



These rollers are made extra heavy and substantial for professional use. The frame is made of heavy cast iron polished and nickel-plated, and the handles are so constructed as to allow the heaviest and most even pressure with the least expenditure of muscular effort.

The outside diameter of the rollers measures 1½ inches. The rubber is of the best quality, one-eighth of an inch thick. They are made in two styles, A and B.

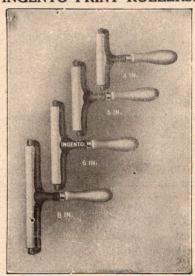
The roller in style A has a hardwood center, while the roller in style B has a steel center.

Note-When not otherwise specified, we will ship Style A.

PRICE.

6-inch.	Style A, wood center	\$1.50
8-inch.	Style A, wood center	1.75
10-inch.	Style A, wood center	2.00
	Style B, steel center	
8-inch.	Style B, steel center	2.25
10-inch.	Style B, steel center	2,50

INGENTO PRINT ROLLERS.



Styles E and F.

These print rollers are made of the best material throughout. The handles are of polished hardwood. The rollers are made of pure rubber with hardwood center, and revolve free and true in their frames.

We guarantee these rollers to be strong and durable; neither the handles nor rollers will become loose or fall out. They are handsome both in design and finish.

Made in two styles, E and F. The frame of Style E is enameled black, while the frame of Style F is polished and nickel-plated.

	Style E	Style F
4-inch	\$0.20	\$0.30
5-inch	25	.35
6-inch	30	.45
8-inch	40	.50

INGENTO VELVET SQUEEGEES.

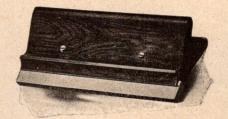


Suitable for all photographic processes; squeegeeing prints on glass or ferrotype plates; also for use in the carbon process.

PRICE.

6-inch.																	30.2	25
8-inch.																	.:	35
10-inch.			 													 	.4	15
12-inch.			 														.5	50

EASTMAN'S SPECIAL SOUEEGEE.



Its special feature is the double handle, giving a strong, firm grip. Superior quality velvet rubber.

PRICE. 6-inch. \$0.30 8-inch. .35

C. S. SQUEEGEES.

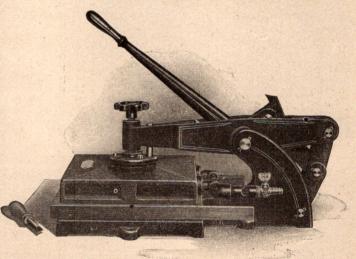
This new article is made of a strip of polished celluloid of just the right strength and elasticity to press the prints into perfect contact with the ferrotype plate.

					P	R	11	C	E										
5-inch, each	n																.\$0.	10	
8-inch, each	n																	15	

KODAK DRY MOUNTING PRESS.

Kodak Dry Mounting Tissue and the Kodak Dry Mounting Press form the ideal method for mounting prints of all sizes, as the prints lie perfectly flat even on thin mounts, and are ready for delivery as soon as mounted. The press is heated by gas and the only extras required are the necessary tubing for connecting with the gas supply and a small gas stove to heat the tacking tool.

To use, the prints are placed face down, and a sheet of Kodak Dry Mounting Tissue is attached by applying a heated tacking tool to small spots on opposite ends. The prints are then turned face up, and prints and tissue trimmed to size.



The press being heated to the proper temperature, the prints are placed face up on the bed of the press and the heated platen is brought into contact with the prints by pulling the lever forward. A few seconds pressure mounts them securely.

The Kodak Dry Mounting Press is made in two sizes, 5x7 and 11x14. Each of the presses may be used for work twice their width and of any length, by giving a number of impressions.

5x 7.		\$15.00
11x14.	<u> </u>	50.00

EASTMAN SODA SCALE.



well-constructed and thoroughly Scale, weighing up to four pounds by the one-half ounce.

An absolute necessity in every studio for the accurate weighing of hypo and the sodas.

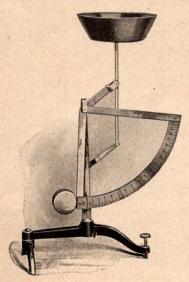
COMMON SENSE SCALE.



This is a good, reliable Scale, especially adapted to the wants of the photographer, at a very low price. It weighs from quarter ounce to four pounds, is strong, well made, with brass scoops and brass beams, handsomely finished, and what is more important of all is, it is warranted accurate and guaranteed satisfactory. It is especially useful to photographers in weighing packages for mailing, weighing chemicals, etc.

\$3.00

THE DEPOSE SCALE.



A simple, accurate and inexpensive scale for the compounding of p h o tographic formulae.

No loose weights, scale accurately marked. Removable pan. Folds compactly when not in use.

Each Scale neatly packed in carton.

PRICE.

No. 1. 16 drams .\$0.40

No. 2. 18 ozs. . . . 1.25

INGENTO SCALE No. 8.



This is the most accurate and perfectly constructed balance Scale ever offered to the photographic trade. It is sensitive to one-half grain. The pans measure 3½ inches in diameter and are interchangeable. The beam is fitted with adjustment screws and indicator for accurate adjustment and quick weighing. The bearings are made of the best tool steel, and are protected with dustproof caps. Each Scale is supplied with fourteen brass and aluminum weights from one-half grain to two ounces.

brass and aluminum weights from one-nair grain to two ounces.

The weights are all accurate, and fit into their own special places on a metal plate with openings to fit the various sizes, which is attached to the base. All the metal parts are beautifully polished and nickel-plated. The base is of polished quarter-sawed oak. Each Scale is guaranteed for its accuracy and durability.

PRICE.

PRICE. No. 8 complete.....

THE BULLION SCALES.



No. 1.

The finest photographic Scale made, with loose pan for cleaning. Always ready for use; does not require setting up, substantially made and supplied with ebonized varnished wood stand, nickel-plated fittings and set of weights. Each Scale is specially adjusted. Price.\$1.50

HAND BALANCE SCALES.

These Balances are perfectly reliable. They weigh from one-half ounce to one-half grain. Each Scale is packed in a box with full set of weights. They are well adapted for amateur photographers.

PRICE. -inch beam......

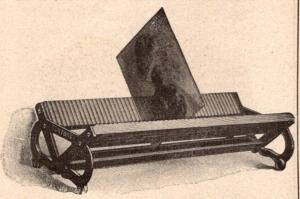
INGENTO SCALES Nos. 6 AND 7.

These Scales are very sensitive and accurate. Thev are equipped with an adjustable column for holding them in a vertical position and with a strong, compact box, which acts as a carrying case for weights and scales when not in use. The price includes a full set of weights from one-half grain to one-half ounce.

PRICE. No. 6. 6-inch beam.\$2.00 No. 7. 8-inch beam. 2.50



THE CENTURY NEGATIVE RACK.



Designed especially for professional use, extra strong and well made. Holds fifty negatives any size.

PRICE.

		Rack\$1.25
Century	Negative	Rack, without trough 1.00

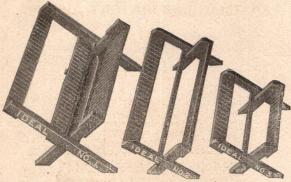
R. O. C. NEGATIVE RACK.



A good, substantial and roomy rack, made of straight grain cherry thoroughly seasoned. Provided with drip trough, and folds flat when not in use.

PRICE.

IDEAL NEGATIVE RACKS.



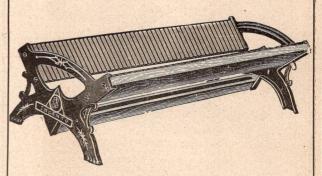
These racks are strongly and neatly made and fold up very compactly. The No. 1 is by far the best medium priced rack on the market. It is substantially built, has three corrugated bars to hold the negatives, and is made of nicely finished cherry. This rack is supplied with a trough to catch the drippings from the negatives while drying, and has a capacity of 24 plates.

The Nos. 2 and 3 are constructed lighter. No. 2 has a capacity of 24 plates, and the No. 3, 12 plates. They are furnished without trough, and are made of hardwood, oil finished. These racks have two corrugated bars for holding the negative, and meet all requirements of a first-class rack at a low price.

PRICE.

No.	1.	With tro	ugh	 						\$0.35
No.	2.	Without	trough.							 20
No.	3.	Without	trough.							 15

THE INGENTO NEGATIVE RACK.



This rack is especially designed for professional use. The full capacity is forty-two negatives, and any size can be accommodated from 14x17 down to largest slide size. The entire framework is of iron, beautifully enameled and gold decorated. The plate rests are of heavy hardwood, with grooves cut uniformly about ½ an inch apart. The Ingento Negative Rack is very rigid and cannot be tipped over. It is 24 inches long and is furnished either with or without a trough to catch the drippings.

PRICE.

No. 1.	Without trough	.\$1.00
No. 2.	With trough	. 1.25



ALADDIN WASHING AND DRYING RACK.

This rack is gotten up to meet the demand for a good rack at a low price. It is made of iron, black enameled. The Aladdin rack is adapted for any size plate from $3\frac{1}{2}x3\frac{1}{2}$ up to 8x10.

Each rack is contained in a pasteboard box.

INGENTO CHANGING BAG.

Daylight. No Dark Room Required.



For loading plate holders and for changing plates into Ingento Developing Tanks in daylight. The plate holders and a box of plates or developing tank are put into the bag at one end. The bag is then closed with glove fasteners. The hands are inserted through the sleeves (which have rubber wrist bands) and the plates are then easily changed without loss of time.

PRICE.

No. 1.	4x5 or smaller	.\$1.25
No. 2.	5x7 or smaller	. 1.60
No. 3.	6½x8½ or smaller	. 2.00
No. 4.	8x10 or smaller	. 2.50

RUBBER FINGER TIPS.

Made of pure rubber, with reinforced ends. A practical protection from chemical action on the fingers.

PRICE.

Per set of 3......\$0.15



EASTMAN LABORATORY SLEEVE PROTECTORS.

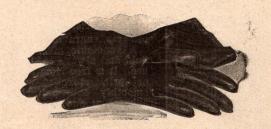
These sleeve protectors are made of the same material as the Laboratory Aprons. Light, strong and extra durable.

PRICE.

Per pair\$0.50



RUBBER GLOVES.



Made of pure seamless rubber, with pebbled surface. Do not destroy the sense of touch, yet of efficient weight for durability.

PRICE.

Size 7, 71/2, 8, 81/2 and 9, per	pair\$1.25
----------------------------------	------------

EASTMAN LABORATORY APRONS.



These aprons are full cut, made of extra strong fabric, and coated with a composition that thoroughly impregnates the fabric.

Water proof and crack proof, and will withstand the hardest dark-room and laboratory usage.

No.	1,	40-inch	 \$0.75
No.	2,	46-inch	
No.	3.	52-inch	1.00

HIGGINS' PHOTO MOUNTER.



An entirely novel and superior adhesive, specially prepared for mounting photographs, aristotypes, scrap pictures, engravings, etc.

A vegetable glue, semifluid and always ready for use. It is free from lumps or grit, spreads very smoothly and uniformly, adheres at once and dries quickly. Guaranteed not to warp, cockle, strike through or injure the tone or color of any mount. For either dry or wet mountings it has no equal.

3	ounce	screw-capped	jars,	each	.\$0.15
6	ounce	screw-capped	jars.	each	25
14	ounce	screw-capped	jars,	each	50
1/2	gallon	screw-capped	jars,	each	. 2.00
1	gallon	screw-capped	jars,	each	. 3.50

CARTER'S GLUE PENCIL.



Best grade Liquid Glue in tubes. Always ready and always fresh.

P	R	I	C	E.

Per	dozen	tubes.													1.	.5	0

SCHILLER'S PASTE.

A good Pho	to 1	Mounter	* (2.5) (1.5) (2.5)	
Quart jars				 .\$0.60
Gallon jars				 . 1.50

BANKERS' PASTE.

1/2-pint screw top jar\$0	.25
1-pint screw top jar	
1-quart screw top jar	.75
1-gallon stone jar 1	.50



NO MORE SOUR PASTE.



LE PAGE'S LIQUID GLUE.

Put up in cans, and is always ready for use; every photographer knows the importance of a strong ; lue in and about the gallery.

1/2-pint can	 \$0.25
1-pint can.	 .45
1-quart can.	 .75
1/2-gallon can.	 1.25
1-gallon can	2.00

HIGGINS' VEGETABLE GLUE.



This is a semi-fluid adhesive of great strength and body; it adheres quickly and dries rapidly. It will be found of especial value in the photographer's workroom and for general use. It is unequaled for sticking paper or cloth to paper, wood, leather, glass or metal. Warranted to keep in perfect condition for an indefinite time and to never smell offensively.

Put up in square selfsealing cans.

PRICE.

½-lb.	can.																\$0.15
																	.25
2-lb.																	
																	1.00
10-lb.	can.																1.75

WEIS

BRUSH TUBE PASTE

An excellent photo paste put up in tubes with brush attached. It is clean, convenient, handy and always ready for use.

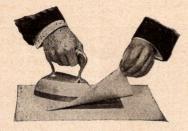
		PRICE.
No.	1,	each\$0.05
No.	2,	each
No.	3,	each



DENNISON'S ADHESIVES.



KODAK DRY MOUNTING TISSUE.



An entirely new product, by which prints can be mounted even on thin mounts without curl, no apparatus being required—just the tissue and a flatiron. Put up in different sizes in packages with full directions for use.

Sizes.				
31/2 x 31/2, 3	dozen			 .\$0.10
31/4 x 41/4, 3	dozen			 10
31/4 x 51/2, 2	dozen			 10
4 x 5, 2				
5 x 7, 1				
$6\frac{1}{2}$ x $8\frac{1}{2}$, 1				
8 x10, 1				
5 yards, 20	inches wid	de (in	roll)	 75

PASSE-PARTOUT BINDING.

STRONG-TOUGH-DURABLE.



This Passe-Partout Binding is guaranteed to be of the very best quality. It is made of pebbled paper, strongly gummed, and is warranted to adhere to glass and all kinds of metal. Put up in rolls, each 12 yards long and $\frac{7}{2}$ inch wide, in the following colors: White, red, brown, crimson, olive green, black, blue, gray, gold and silver.

Price,	each,	except Go	ld and	Silver	.\$0.10
Price,	each,	Gold and	Silver		20

GUMMED OAK LEAF HANGERS.



HANGERS FOR PASSE-PARTOUT FRAMES.





> No. 2 1/4 gross in a box.

Per	dozen.									 						\$0.2	0
Per	gross.															1.5	0

SQUARE ALUMINUM GRAIN WEIGHTS.

Made of pure sheet aluminum; made concave, so they can be picked up readily.

½ grain to 10, per set......\$0.40

EXTRA SETS OF WEIGHTS.







Dram, Scruple, Grain and $\frac{1}{16}$ to 1 ounce Weights.

Per set. \$0.75

NEST WEIGHTS.

| Sealed Sealed Sealed Brass | State | Sealed Brass | State |



INGENTO BINDING STRIPS.

HAGENTO BINDING STRIPS

The Ingento Binding Strips are made in two grades. The best grade is made of book-binders' black cloth which we can highly recommend, owing to its everlasting qualities. The other grade is made of an extra tough black paper and has been on the market for years. Both strips are coated on one side with special gum, which is the strongest adhesive known. They are cut exact size for the standard lantern slide and packed neatly in long carton boxes. We will supply paper strips unless otherwise specified.

PRICE.

Per package	50 strips	s cloth	.\$0.15
Per package		s, paper	
Per package		s, paper	
Per package	1,000 strip	s, paper	75

STANDARD GUMMED PAPER.

Pure White, Best Quality.

No. 1, 17x22, heavily gummed one side. Doz.. \$0.25 No. 1, 20x25, heavily gummed one side. Doz.. .30

STANDARD WHITE GUMMED (Both Sides).

No. 00, 17x22, be	est quality.	Per doz\$0.35
Sheplie's Gum	Paper, per	roll, 300 yards,
½ inch wide.	Black and	White

INGENTO ADHESIVE WAFERS.

These wafers are gummed on both sides with a strong adhesive, and by their use it is possible to mount photographs without destroying the gloss. They are especially adapted for neatly mounting photographs and postcards in albums.

PRICE.

Per box of 100.....\$0.10

ART CORNERS.

"ENGEL'S QUICK WAY."



This system of mounting prints is neat and unobtrusive and adds greatly to the appearance of the picture. Any size print can be mounted on cards or in albums without the use of paste or brush. The gummed corners are attached to the print, moistened and then placed on the mount. They are quick and effective.

Art Corners are made from strong melton cover stock, coated on one side with a strong adhesive. Made in two styles, round and square, and in five colors, light gray, dark gray, white, black and sepia, also in gold and silver.

Package		anv	color	 		 	 . \$0.10	0
Package								

LANTERN-SLIDE MATS.

IDEAL AND INGENTO.

The Ideal Mat is made of superior paper which is especially manufactured for us, the specific qualities being its waterproof finish, dense opacity and toughness. It is a solid black throughout, and is printed on one side with a fancy silver design.

The Ingento Mat is made of opaque paper, black on face, unprinted, and white on back.

Both styles of mats are cut

215x 23 8 2 3 Dia 2 16×2 3 6 2 18 × 18 12 24×23 115×24 3×23 28×24 24×23 1½x23 17 23×27 23×24 DIAGRAM OF SHAPES AND SIZES INGENTO AND IDEAL LANTERN SLIDE MATS

with the greatest accuracy, each opening being exactly in the center, keenly cut and devoid of ragged edges. All square openings are uniform in size, both in height and width, a feature which is greatly appreciated by all operators. We manufacture both styles of mats in twenty different shapes and sizes of openings, as per illustration. Outside measurement of each is 3\(\frac{4}{2}\)x44 inches.

No. 17 made only in Ingento.

PRICE.

					Ideal	Ingento
Per	pkg. of 25	mats,	not	assorted	.\$0.20	\$0.17
Per	box of 100	mats,	not	assorted	70	.60
Per	1,000, bulk			,	. 6.00	5.00

REGULAR BLACK MASK PAPER.

FOR CUTOUTS, ETC.

19x24 inches. Per dozen.....\$0.25

SPECIAL LANTERN SLIDE MAT PAPER.

19x24 inches. Per dozen sheets.....\$0.50

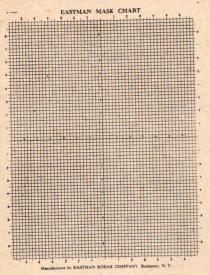
Do your everyday trading where you receive best values.

Value consists of price and service.

Our prices are always at least as good as the best.

Our service is always best.

EASTMAN MASK CHART.



The Eastman Mask Chart is a guide for accurately and rapidly ascertaining the size for the correst cutting of photo printing masks.

Sheets of opaque paper 8x10 inches in size are imprinted with a ruled form consisting of horizontal and perpendicular lines spaced to form one-eighth inch squares.

A scale in inches mark the four side and the two center lines of chart. Figures on this scale are spaced one-half inch apart, measuring from the center lines. In estimating the dimensions for a mask opening, one need only refer to the figures, or count the number of lines each side of the center perpendicular line and above and below the center horizontal line, to obtain an accurate size for a cut-out.

For example: A mask is required with opening 3x6 inches in exact center of opaque paper. Lay one of the charts, with printed side up, on a suitable cutting surface—(the emulsion side of a discarded negative or an old ferrotype plate), then locate on the chart the figures 3, marked on center horizontal line, and the figures 6 on the center perpendicular line. The intersection of these lines marks the exact dimensions of cut-out. Place a ruler or straight edge along the lines indicated, and with a sharp knife blade or a trimming wheel, make clean cuts, following carefully the ruled lines for accuracy.

PRICE.

Eastman	Mask	Chart,	5x 7,	per	dozen	\$0.10
Eastman	Mask	Chart.	Ex10,	per	dozen	.15
Eastman	Mask	Chart,	11x14,	per	dozen	.30

RUBY AND POSTOFFICE PAPER.

Ruby Paper. Per	dozen	 	\$0.25
Postoffice Paper.	Per dozen	 	25

RUBY AND ORANGE FABRIC.

Our Ruby and Orange Fabric is of superior quality. The texture is very fine and the color fast. We guarantee it to be free from pin holes. Width 38 inches.

PRICE.

Ruby Fabric. Per yard	\$0.	40
Orange Fabric imported	Per vard	60

EASTMAN MASKING BLANKS.

This is the same material as the Eastman Printing Masks, and is furnished in cut sheets to meet the requirements of the professional using special sizes.

PRICE.

4 x 5.	Per dozen sheets	.\$0.60
5 x 7.	Per dozen sheets	. 1.00
61/2 x 81/2.	Per dozen sheets	. 1.50
8 x10.	Per dozen sheets	. 2.00
	Per dozen sheets	

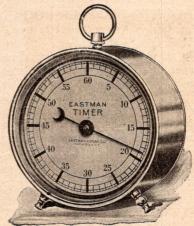
EASTMAN PRINTING MASKS.

Non-actinic, yet fully transparent, these masks allow the printer to see exactly what he is doing. Supplied plain or with trimming guide for trimming prints with narrow white margins Order by number or letter.

PRICE.

	Outside	Size of	Price
No.	Dimensions	Opening	Each
1	4 x 5	1½ x 23/8	\$0.06
	4 x 5	216 x 216	.06
2 3	4 x 5	216 x 316	.06
	4 x 5	23/8 x 41/6	.06
4 5	4 x 5	31/8 x 31/8	.06
6	4 x 5	2 15 x 3 15	.06
6 7	4 x 5	3 16 x 4 16	.06
8	5 x 7	31/8 x 53/8	.10
9	5 x 7	3 13 x 4 13	.10
10	5 x 7	41/8 x 6 16	.10
11	5 x 7	27/8 x 51/8	.10
12	5 x 7	3½ x 4½	.10
13	6½ x 8½	4½ x 6½	.15
14	6½ x 8½	43/4 x 63/4	.15
A	5 x 7	2 x 2½	.10
В	5 x 7	21/4 x 41/2	.10
C	5 x 7	3 x 51/4	.10
D	5 x 7	35% x 51/4	.10
E	8 x 10	35% x 51/4	.20
F	8 x 10	3¾ x 5¾	.20
G	8 x 10	4 3/4 x 6 3/4	.20
H	8 x 10	5¾ x 7¾	.20
K	11 x 14	43/4 x 63/4	.30
L	11 x 14	5¾ x 7¾	.30
M	11 x 14	61/4 x 81/4	.30
N	11 x 14	63/4 x 83/4	.30
0	11 x 14	7¾ x 9¾	.30

THE EASTMAN TIMER.



For the accurate timing of exposures on developing out papers. The hand traverses the circle of the dial in one minute. The large and plainly marked cial is easily read in subdued light. Runs thirty hours.

Price \$2.00

Vignetting Papers, Blotters, Plain and Salted Papers, Cover Stock, Tissues, Drafting Material, etc.

CEPA SKIN. Best for vignetting. 19x24 Imported, per dozen. \$0.20 ONION SKIN. Semi-transparent. 19x24. \$0.20 EASTMAN'S TESTED BLOTTERS. Heavy and highly absorbent stock and chemically pure. PRICE. 19x24, per dozen sheets. \$ 0.45 19x24, per ½ ream. \$ 4.25 19x24, per ½ ream. 7.50 19x24, per ream. 13.50

WORLD PHOTO FINISH BLOTTERS.

Per roll, 75 lbs., 20 inches...... 10.50

19x24, 100 lb.,	per dozen\$ 0.50
19x24, 100 lb.,	¼ ream 4.25
19x24, 100 lb.,	½ ream 7.75
19x24, 100 lb.,	1 ream

LINTLESS CHEMICALLY PURE BLOTTERS.

Linen Finish, 120 lbs.

19x24, per dozen. \$ 0.40

19x24, ¼ ream. 3.50

19x24, ½ ream. 6.50

INGENTO BLOTTER BOOK.

For Drying Prints Perfectly Flat.

This zook consists of 12 sheets of very heavy chemically pure photographic blotting paper, with waxed paper inserts, and is bound in high-grade cover stock. The leaves and inserts are linen stitched to the back, making the strongest and most serviceable book possible. Its use will prove a great convenience to those who wish to dry their prints rapidly, as well as those who do not mount their prints.

PRICE.

No.	1	measures	73/4 x 91/4	inches.			 	\$0.25
No.	2	measures	8½x117/8	inches.		 	 	.40

ALBUMEN PAPER.

Eagle, extra brilliant, white, pink, pearl and pense; N. P. A., extra brilliant, white, pink, pearl and pense.

and bense.			
Per dozen	Per ¼ ream	Per ½ ream \$22.00	Per ream
\$1.25	\$12.00		\$42.00

PLAIN SAXE PAPER.

Per	dozen																\$ (0.5	0
Per	ream.																18		

CLEMENT'S SALTED PAPER.

Mat Surface.

Per	dozen, 18x22.		 							\$ 0.90
Per	ream	 	 	 						33.00

FANCY TISSUE PAPER.

Wreath	Size Per 100 .21x23\$2.25
Roman Stripe	.22x34 2.00
Butterfly	.22x34 2 00
Spider Web	.21x23 2.00
Water Silk	.22x34 2.00
Plain Transparent	.22x34 1.50

DECKLE AND STRAIGHT EDGE FOLDER STOCK.

We carry a large stock of both Deckle and Straight Edge folder papers, in single and double weights and will be pleased to furnish samples and prices on request.

DRAFTING PAPERS AND CLOTH FOR ARTISTS, ARCHITECTS AND ENGINEERS.

Whatman's and Strathmore brands in all the regular sizes and weight. Bristol Boards, Drafting Papers and Tracing Cloth. Sample book and price list on request.

CLOTH-BACK PAPER.

22	inches	wide,	10-yard	roll				.\$1.90
----	--------	-------	---------	------	--	--	--	---------

FILTED PAPER.



We handle only the best white filter paper, which has undergone many severe tests with very satisfactory results. It is unsurpassed for strength, uniformity of texture and clear, rapid filtering. It is especially adapted for photographic work.

6	inches	in	diameter.	per	package	\$0.20
				200 PM	package	
					package	
			diameter,			96



This Envelope is designed especially for mailing Photographs, Fine Christmas and Easter Cards, Valentines, Calendars, Leaflets, Designs, Draw-ings or Pictures, flat. The stiff backing of light weight Cellular Board protects the enclosure from teing bent or broken, and also shields it from the blow of the canceling stamp.

The contents are readily enclosed and sealed as in an ordinary envelope, but as the peculiar construction permits of inspection, the rate of postage is only one cent for each two ounces.

Size	Per Hundred	Number in a Box
4½x 7	\$1.00	100
5½x 7¾	1.40	50
6½x 91/8	1.80	50
71/8 x 101/8	2.00	25
7½x 9½	2.10	25
8½x10½	2.40	25
81/8 x111/8	2.50	25
9½x11½	2.75	25
9½x12½	3.00	25
10½x12½	3.25	25
11¼x14%	3.50	25
5½x11¼	2.00	25
6½x13¼	2.60	25
7½x15¼	3,20	25
	4½x 7 5½x 7¾ 6½x 9½ 7½x10½ 7½x 9½ 8½x10½ 8½x11½ 9½x11½ 9½x12½ 10½x12½ 11¼x14% 5½x11¼ 6½x13¾	Size Hundred 4½x 7 \$1.00 5½x 7¾ 1.40 6½x 9½ 1.80 7½x10½ 2.00 7½x 9½ 2.10 8½x10½ 2.40 8½x11½ 2.50 9½x11½ 2.75 9½x12½ 3.00 10½x12½ 3.25 11¼x14¾ 3.50 5½x11¼ 2.00 6½x13¼ 2.60

Kindly order by number and in full boxes.

MANILA ENVELOPES—Open End.

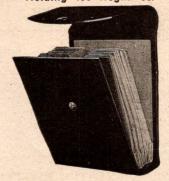
Samples at request.

Kindly order by number and in full boxes.

					Price
				1	per 1000
No. 2	21/2 x 31/4	Manila.			. \$ 0.75
No. 61/2	33/4 x 61/2	Manila,	Side	Open	. 1.00
Cabinet	5½x 7½	Manila.			. 1.50
Cabinet	7 x 9	Manila.			2.10
Cabinet	7 x10	Manila.			2.50
Cabinet	8½x10½	Manila.			3.10
Cabinet	101/2 x121/2	Manila.			. 4.75
Cabinet	111/2 x141/2	Manila.			. 5.65
Cabinet	13 x16				

FILM NEGATIVE ALBUMS.

Holding 100 Negatives.



The negative Albums are made of a tough Transparent Tissue open at end for easy insertion or withdrawing of negatives. Each page is numbered and book has index for reference.

			PRICE.		
For	100	negatives,	15/8 x21/2		.\$0.75
For	100	negatives,	21/2 x 41/4, or	smaller	75
For	100	negatives,	31/2 x31/2, or	smaller	75
For	100	negatives,	31/4 x 41/4, or	4x5	. 1.00
For	100	negatives,	31/4 x51/2, or	smaller	. 1.00

For 100 negatives, 5x7, or smaller...... 1.50 NEGATIVE PRESERVERS.

These envelopes are made of strong manila paper, the proper size for the negative,

PRICE.

Size		Per 1000	Size		
3½x3½	\$0.18	\$1.50	5 x 8	.\$0.28	\$2.25
31/4 x 41/4			61/2 x 81/2.		
31/4 x51/2	20	1.50	8 x10	40	3.40
4 x5			10 x12	80	6.75
41/4 x 61/2	25	1.75	11 x14	. 1.00	9.00
5 x7	25	1.75			

EASTMAN'S SAFETY ENVELOPES.

As there has been considerable demand for these fireproof filing envelopes in addition to the three supplied with each dozen Eastman Portrait Films, we will furnish same in the sizes and at the prices quoted below.

These envelopes are made of non-inflammable paper and are suitably printed for filing negatives in the usual way.

PRICE.

														er 1		
5 x 7			100				4				10			. \$1.	25	
61/2 x 81/2																
8 x10																
11 x14														. 2.	50	

KRAFT PROOF ENVELOPES. Something new something better something

classy.	now, so.	mouning bottor,	Bomething
		1000	
4 1/8 x 6 1/2 open	side, per	1000	2.00

		P	rices for Printing Envelopes.	
Per	500	in	black ink	\$1.00
Per	1000	in	black ink	1.50
Per	500	in	colored ink	1.25
Per	1000	in	colored ink	1.75

NON-ACTURIC ENVELOPES.

41/8×61/4	open	end											\$1 75	3
41/8×61/4	open	side.	3	34	66		2	å	9		28		. 1.75	

ALBUMS.

We carry a complete line of Albums. Our Albums are made well, look well and wear well. We buy our stock only from manufacturers of National reputation and guarantee every single book we sell. We give below a few of our designs.

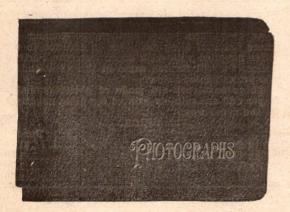


INTERCHANGEABLE.

BLACK SILK CLOTH-STIFF COVERS.

Flexible Leaves-Carbon.

Number	Size	Leaves to Album	Price
03100/50	5½x 7	50	\$0.75
03101/50	7 x10	50	1.00
03102/50	10 x12	50	1.50
03103/50	11 x14	50	2.00
03105/50	5½x 8¼	50	.90

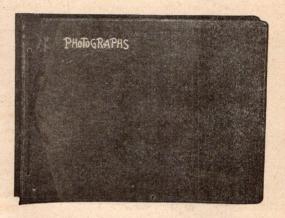


INTERCHANGEABLE.

GENUINE LEATHER "SEAL"—FLEXIBLE.
COVERS.

Flexible Leaves-Carbon.

Number	Size	Leaves to Album	Price
05100/50	5½x 7	50	\$1.50
05101/50	7 x10	50	1.75
05102/50	10 x12	50	- 2.75
05103/50	11 x14	50	3.25
05105/50	5½x 8¼	50	1.60

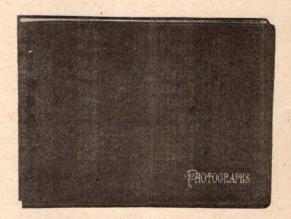


INTERCHANGEABLE.

GENUINE LEATHER "MOROCCO"

Flexible Leaves-Carbon

Number	Size	Leaves to Album	Price Each
09100/50	5½x 7	50	\$1.65
09101/50	7 x10	50	2.00
09102/50	10 x12	50	3.00
09103/50	11 x14	50	3.50
09105/50	5½x 8¼	50	1.80
09108/50	10 x 8	50	2.50



INTERCHANGEABLE.

GENUINE LEATHER "ENGLISH LONG"

Flexible Leaves-Carbon

Number	Size	Leaves to Album	Price Each
05600/50	5½x 7	50	\$1.50
05601/50	7 x10	50	1.75
05602/50	10 x12	50	2.75
05603/50	11 x14	50	3.25
05605/50	51/2 x 81/4	50	1.60
05608/50	10 x 8	50	2.25

Photographic Card Stock

Owing to the constant changes in styles of Photo Mounts we do not attempt to list a full line of professional cards. In this list we will give only a few staples, such as plain cardboards, which do not change as often as do the other lines of mounts. When in the market do not fail to let us send you a complete up-to-date catalogue of mounts and folders, and if you will give us size, color and style of mounting desired, we will send samples. (This applies to professional photographers ouly.)

MELTON CARD BOARD.

Lines under number represent thickness of stock.

Per One Hundred.

RELIANCE.

Scotch Gray and Carbon Black-Gray	Back.
22x28. per 100\$7.80	11x14, per 100\$2.00
20x24, per 100	
16x20, per 100 5.50	8x10, per 100 1.15
14x17, per 100 4.90	

No. 1180.

Scotch Gray and Carbon Black-Gray Back.

22x28, per	100	\$14.75	11x14, per	100\$3.95
20x24, per	100	14.00	10x12, per	100 3.65
16x20, per	100	9.00	8x10, per	100
14x17, per	100	7.90	7x 9, per	100 1.80

MELTON PHOTO-CARDS.

No. 842.

Scotch Gray	and	l Carbon	Black-	—C	łray	Ba	ack	. I	Plai	n :	Bev	eled	Ed	ge-	-Rot	ind	rner er 100	
**Cards 31/4 x33/4.	for	Photograp	phs 13	2X	21/2		. 1										 \$0.37	1
**Cards 41/4 x 41/4.	for	Photograp	ohs 21/	X	21/4												 .50)
**Cards 41/4 x51/4.	for	Photograp	phs 21	4 X	31/4												 .56	5
**Cards 51/2 x51/2,	for	Photograp	phs 34	2X	31/2												 .70)
**Cards 41/2x61/4,	for	Photograp	ohs 24	2X	41/4							,					 .78	5
**Cards 51/4 x61/4,	for	Photograp	phs 34	4X	41/4												 .88	5
*Cards 6 x7,	for	Photograp	phs 4	X	5												 1.00)/
*Cards 51/4 x71/2,	for	Photograp	phs 33	4 X	51/2												 1.00)
+Cards 7 x9,	for	Photograp	ohs 5	X	7												 1.60)
+Cards 8 x10,	for	Photograp	ohs 5	X	8												 2.10)
+Cards 10 x12,	for	Photograp	ohs 7	x	9												 3.00)
+Cards 1034 x133	4, f	or Photogr	raphs	8x	10												 3.30)
**200 in a	hox	*100 in	a hox		+50	in	a 1	oox.										

No. 487 DUPLEX MARBLE BRISTOLS.

Thickness -

No.	Very Beautiful Shades and A-1 Quality.	Per 100
11	Grey Marble, Light Grey	\$12.00
	Dark Sepia Marble, Light Sepia Marble	12.00
14 (The State of	French Grey Marble, Dark Grey	12.00
	Be sure and order by number.	

IMPORTED AND AMERICAN TISSUES.

	Ask for one of our sample books of the different patterns. Maned i	ree.	Per 100	Per doz.
FF	Fmbossed Watered Silk, extra quality	x25	\$1.15	\$0.15
ER	White Linen Tissue	x25	1.15	.15
KK	Imported Check pattern	x25	1.25	.20
MM	Linen Sepia Tinted	x25	1.25	.20

FABRICA COVER PAPER.

White, Alpine Grey, Ash Grey, Colony Buff, Kromite, Fox Brown and Sable Brown (50 sheets in a package)

		rer 100 sneets
22x28, Plain Edg	ges	

EMBOSSING PRESS NO. 1.



These enable the photographer to do his own embossing; either plain or in colors. The dies are cut in solid brass and any size may be used up to $34\times1\%$ inches.

The presses have heavy reinforced neck and are oxidized finish. They weigh 5 pounds and have a throat two inches deep from center of die. Specimens of work sent on application.

PRICE.

Press and die, not exceeding two lines\$1.25
(For plain stamping)
Press and die for raised letter stamping 5.50
Embossing carbon sufficient for 1,000 cards
in colors, either one color or assorted
black, green, red, purple, etc., as desired,
per package

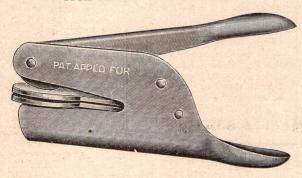
EMBOSSING PRESS NO. 2.



LONG REACH PRESS.

This press is similar to the No. 1, as shown above, but is about three times as strong and heavy. Its weight is 15½ pounds, hence it is capable of withstanding the powerful pressure required to do the raised letter embossing on any thickness of card or paper.

THE HAND EMBOSSER.



Will emboss name and address on prints or light weight cover paper. Made regular to emboss from top or reversed to emboss from bottom. No special designs or signatures can be supplied. Two, three or four lines only in the following style type:

SIZE NO. 1
SIZE NO. 2 GEORGE H. ELLIOTT
SIZE NO. 3
SIZE NO. 3
BROOKLYN, N. Y.

Size No. 7 R. E. Kirkland Size No. 8 The Breakers

PRICE.

Two Initial Monogram Embosser\$	0.25
Single Initial Old English, large, 5-16 inch.	.25
Single Initial Block	.25
Old English, small, ¼ inch, in wreath	.30
Two or Three Initial Monogram	.50
Old English, large, 5-16 inch, in wreath	.50
Ornamental Single Initials	.50
Two or Three Initials, side by side, Old Eng-	
lish, large, 5-16 inch or small, 1/4 inch	1.00
Two or Three Initials, side by side, Old Eng-	
lish in wreath	1.00
Two or Three Initials, side by side, Block	1.00
Name and Address Embosser with one line.	1.00
Two or three lines	1.50
Four lines	1.75
Mention sizes of letters wanted. See si	izes

1-2-3-4-5-7-8.

Number of letters, figures, spaces and marks included in limit of one line as follows: No.

Number of letters, figures, spaces and marks included in limit of one line as follows: No. 1—15, No. 2—16, No. 3—18, No. 4—22, No. 5—27. No. 7—14, No. 8—18, and always state size you want to emboss, top or bottom of print.

All models are made of heavy steel, nickelplated and will last for many years.

Send for complete descriptive list of Rover's Hand Embossers.

PHOTOGRAPHIC CHEMICALS.

Prices Subject to Market Changes.

DEVELOPERS, CHEMICALS AND CHEMICAL	HARDENERS.
PREPARATIONS.	Solio, Powdered, per box\$0.40
DEVELOPERS, POWDERED FORM.	Velox Liquid Hardener, 4-oz. bottle
Azo Developer Powders, 12 powders for 48-	Velox Liquid Hardener, 8-oz. bottle25
oz. developer	Solio, 8-oz. bottle Solution
Ditto, 6 powders for 24-oz. developer	Solio, ½-gal. bottle Solution. 1.75
Eastman's Eikonogen Developer Powders,	Solio, 72-gai. bottle Solution 1.75
per pkg. of 12 for 48-oz. developer50	
Ditto, per pkg. of 6 for 24-oz. developer25	ARTURA SPECIALTIES.
Eastman's Hydrochinon Developer Powders, per pkg. of 12 for 48-oz. developer	Developer Powder, box of 6 cartridges, No. 1.\$0.25
Ditto, per pkg. of 6 for 24-oz. developer25	Developer Powder, box of 6 cartridges, No. 250
Eastman's Hydrochinon, Eikonogen, Pyro or	Artura Sepia Salt, box of 6 cartridges50
Special Developer Powders, in hermetically	INTENSIFIED
sealed tubes, per pkg. of 5 tubes	INTENSIFIERS.
Eastman's M. Q. Tubes, box 100 tubes 5.00	To Increase Intensity,
Per tube	Agfa, for Plates and Film, per bottle, 4-oz\$0.50
for use in 5x7 Plate Tank, pkg. of 6	8-oz
Ditto, for 8x10 Plate Tank	Victor, for Plates and Film, 8-oz., per bottle65
Eastman's Professional Kodak Tank and	16-oz
Machine Powders, per pkg. for 48-oz. Stock	Intensine, for Plates and Films, per tube15
Solution	Eastman's, 8-oz. bottle
Eastman's P-S Developer Powders, per pkg40	Eastman's, per tube
Eastman's Pyro Powders, per pkg. of 12 for 48-oz. developer	
Ditto, per pkg. of 6 for 24-oz. developer	E-K SUNDRIES.
Kodak Developing Powders, for 3½-in. Tank	Eastman's Acid Hardener, per pkg\$0.25
Developer, Style A Machine, and 4x5 Plate	Eastman's Ground Glass Substitute, 4-oz. bot50
Tank, per pkg. of ½ dozen	Eastman's Reducer and Stain Remover for reducing negatives, pkg., containing 5 tubes .25
Ditto, for 5-in. and 7-in. Tank Developer or	Intensifier, 8-oz. bottle
Style E Machine	Kodak Acid Fixing Powders, per lb. pkg25
Ditto, for Brownie Tank, Brownie Develop-	Kodak Acid Fixing Powders, per pkg. 1/2-lb15
ing Box or Developing Machine	Kodak Acid Fixing Powders, per pkg. 4-lb10
Nepera Developer Powders, per lb. pkg 1.75	Nepera Capsules for use with Nepera Solu-
Ditto, per ¼-lb. pkg	tion, per doz
Nepera Developing Agent, powdered form,	Solio Toner, 4-oz. bottle
sufficient for 250 oz. Paper Solution or 1,000 oz. Plate Solution, per bottle	Solio Toner, 8-oz. bottle
Nepera Metol Quinol Developer, per box50	Solio Toner, ½-gal. bottle 2.00
Ditto, per dozen boxes 4.00	
Nepera Metol Quinol N. A. Tubes, box con-	DEVELOPING AGENTS.
taining 5 tubes	Amidol, per 1-oz. can
Premo Film Pack Tank Powders, No. 1, per pkg. of 6	Per 4-oz. can. 1.70 Per 8-oz. can. 2.90
Premo Film Pack Tank Powders, No. 2, per	Per 16-oz. can
pkg. of 6	Dianol, per 1-oz. bottle
Ditto, No. 3, pkg. of 6	Edinol, per 1-oz. bottle
Royal Re-Developer, per pkg	Per 2-oz. bottle
Fastman's E-B Developer, 1-lb	Per 4-oz. bottle. 2.50 Per 8-oz. bottle. 4.75
Eastman's E-B Developer, 1/4 lb	Per 16-oz. bottle
Kodak, Non-Abrasion, M. Q. Developer, per	Eikonogen, per 1-oz. can, dry
pkg., 3 tubes	Per 4-oz. can, dry 1.20
DEVELOPERS, LIQUID.	Per 8-oz. can, dry
N. A. Velox Liquid Developer, 4-oz. bottle25	Per 16-oz. can, dry. 3.95 Elon, per 1-oz
Ditto, 16-oz. bottle	Per 4-oz. bottle, dry
Ditto, 4-oz. bottle in mailing tube (postage extra 12 cents)	Per 8-oz. bottle, dry
Ditto, ½-gal. bottle	Per 16-oz. bottle dry
Ditto, 5-gal. keg	Hydrochinon, M. C. W., per 1-oz. can
Nepera Solution, 4-oz. bottle	Per 4-oz. can. .45 Per 8-oz. can. .80
Ditto, 16-oz. bottle	Per 16-oz. can
Ditto, ½-gal. bottle	Hydrochinon, E. K., per 1-oz. bottle
Velox Re-Developer, per box containing 14	Per 4-oz. bottle
capsules Bleaching Agent, 4-oz. Concen-	Per 8-oz. bottle
trated Re-Developer	Per 16-oz. bottle
Ditto, 2-oz. bottle and capsules	Metol Hauff, per 1-oz. bottle, dry
SEED'S SPECIALTIES.	Per 8-oz. bottle, dry
Fach, ½ Doz.	Per 16-oz. bottle, dry
Metol-Hydro Powders, in pkgs\$0.05 \$0.25	Pyro, Eastman's, Crystals, per 1-oz. bottle25
Fike-Hydro Powders, in pkgs	Per 4-oz. bottle
Pyro Powders, in pkgs	Per 8-oz. bottle
	2.00

	And the state of t
Pyro, Mallinckrodt's, per 1-oz. can	Metal, powdered, 1-lb. can 2.60
Per 4-oz. can	Metal, powdered, 5-lb. can
Per 8-oz. can. 1.35 Per 16-oz. can. 2.60	Metal, very finely powdered, 1-lb. can 3.10 Metal, Ribbon, 1-oz. roll
Rhodol, per 1-oz. bottle	Mercury, Bichloride, per 1-oz. bottle
Per ½-lb. bottle	Mercury, Bichloride, per ½ lb
Per 1-lb. bottle 4.50	Mercury, Bichloride, per 1 lb90
Rodinal, per 3-oz. bottle, liquid	Paraffin, per lb
Per 8-oz. bottle, liquid 1.10	Potassa, Caustic, pure in sticks, 1-oz, bottle15
Per 16-oz. bottle, liquid 2.00	Caustic, pure in sticks, 1-lb. bottle45
Tozol, per 1 oz	Carbonate, Salts of Tartar, 1-lb. can 20
Per 4-oz. bottle	Carbonate, Salts of Tartar, 5-lb. can75
Per 8 oz	Pctassium, Bromide, 1-oz. bottle, C. P
Per 5-lb. tins	Bromide, 4-oz. box, C. P
Acid, Acetic, distilled, No. 8 (28%), 1-lb. bot. \$0.25	Bromide, 8-oz. box, C. P
Distilled, No. 8 (28%), 5-lb. bottle 1.00	Bichromate, per 1-oz. bottle
Distilled (80%), 5-lb. bottle 1.50	Potassium, Ferro-Cyanide, "Yellow Prussiate,"
Glacial Pure (99%), 1-lb. bottle60	4-oz, bottle
Acid, Citric, Crystals, 1-oz. bottle	Ferro-Cyanide, "Yellow Prussiate," 8-oz.
Crystals, 4-oz. bottle	bottle
Crystals, 8-oz. bottle	bottle
	Iodide, 1-oz. bottle, C. P
Acid, Hydrochleric, Muriatic C. P. Muriatic C. P., 8-oz. G. S. bottle	Iodide, 4-oz. bottle, C. P
Muriatic C. P., 16-oz. G. S. bottle35	Iodide, 8-oz. bottle, C. P. 1.85 Iodide, 16-oz. bottle, C. P. 3.50
Muriatic C. P., 6-lb. G. S. bottle 1.10	Permanganate, 1-oz. carton
Acid, Nitric, C. P., 8-oz, G. S. bottle30	Permanganate, 1-lb. carton
C. P., 16-oz. G. S. bottle	Neutral Oxalate, 1-lb. package
Acid, Oxalic, Crystals, 1-oz. carton	Neutral Oxalate, 5-lb. package
C. P. Granular, 1-lb. carton	Sulpho-Cyanide, per ounce
Acid, Sulphuric, C. P., 8-oz. G. S. bottle30	Sulphuret, ½-lb. bottle
C. P., 16-oz. G. S. bottle	Sulphuret, 1-lb. bottle
Alcohol, Denatured, 1-pt. bottle	Pumice Stone, pulverized, per oz
1-qt bottle	Pulverized, per lb
½-gal. can	Soda, Acetate, 1-oz. carton
1-gal. can	Acetate, ½-lb. carton
Alum, Powdered, 1-lb. carton	Acetate, 1-lb. carton
Powdered, 5-lb	Bi-Sulphite, 1-oz. bottle
Chrome, powdered, 8-oz. carton	Carbonate, Eastman's, dessicated, 1-lb20
Chrome, powdered, 1-lb. carton	Carbonate, Fastman's, dessicated, 5 lb65 Carbonate, Eastman's, dessicated, 25 lb 3.00
Chrome, powdered, 5-lb. box 1.00	Carbonate, Mallinckrodt's, 1-lb., dried20
Ammonia, Stronger U. S. P. 26°, 1-lb. bottle 30	Carbonate, Mallinckrodt's, 5-lb., dried65
Stronger U. S. P. 26°, 4-lb. bottle85	Carbonate, Mallinckrodt's, 25 lb., dried. 2.50
Ammor.ium, Bichromate, C. P. (Dichromate),	Carbonate, Seed's, 1-lb. bottle
1-lb. bottle	Hyposulphite, Granular, keg of 100 lbs 3.50
Iodide, 1-lb. bottle 5.10	Hyposulphite, Granular, per lb
Persulphate, 1-lb. bottle	Hyposulphite. Pea Crystals, keg 100 lbs 3.50 Sulphite, Fastman's, dessicated, 1 lb 25
Sulphate, Pure Granular, 1-lb. bottle 30	Sulphite, Fastman's, dessicated, 1 lb25 Sulphite, Eastman's, dessicated, 5 lb85
Benzole, Pure, 1-lb. bottle	Sulphite, Eastman's. dessicated. 25 lb 4.00
Borax, Powdered or Crystal, 1-lb. carton15	Sulphite, C. P., Seed's, 1-lb, bottle
Powdered or Crystal, 5-lb. box	Sulphite, C. P., Seed's, 5-lb. bottle 1.50 Sodium, Iodide, 1-lb. bottle, C. P
Granular, 1-lb. carton	Iodide, 1-oz. bottle, C. P
Ether, Conc. Sulph., 1-lb. can	Meta-Bisulphite, 1-oz. box
Formaldehyde, 1-oz. bottle	Meta-Bisulphite, 1-lb. bottle
1/4-lb. bottle	Chloride, 1-oz. bottle C. P
½-1b. bottle	Silver, Nitrate, C. P., per oz
Gold, Chloride, per 15-grain bottle50	VARNISHES.
	Eastman's Retouching Varnish, 16-oz. bottle. \$0.50
Lead, Acetate, per 1-oz. bottle	Hammer Retouching, 16-oz. bottle50
Nitrate, per 1-oz. bottle	RETOUCHING FLUID.
Nitrate, per 8-oz. bottle	Eastman's, per bottle\$0.25
Nitrate, per 16-oz. bottle	REDUCER.
Magnesium, Metal, powdered, 1-oz. can 20	For Plates and Film. To Reduce Intensity.
Metal, powdered, ¼-lb. can	Agfa Reducing Salts, per bottle\$0.80
Metal, powdered, 72-10. Can	Eastman's, per pkg. of 5 tubes

Sensitive Photographic Papers Developing and Printing-Out

ARTURA.

A developing paper with a remarkable latitude, unequaled for quality, richness and uniform excellence, giving better gradation than any other developing paper.

"Nurse your business with Artura and watch it grow." Artura is supplied in the following weights and surfaces:

IRIS.

Grade A-Regular weight stock, smooth semi-matte surface.

Grade B-Double weight stock, smooth semi-matte surface.

Grade C-Double weight stock, smooth, absolute matte surface (no lustre).

Grade D-Double weight stock, medium rough, absolute matte surface (no lustre).

Grade E-Rough, double weight Buff stock, medium rough, absolute matte surface (no lustre).

Grade E-Smooth, same emulsions as Grade E Rough, but coated on a smooth Buff stock, slightly lighter in tint.

Grade A is used mostly for mounting on cards.

Grades B and C are used in folders and for work where solid mounting is not desired, although they may also be mounted solid.

The same applies to Grades D and E, and these grades, on account of their surfaces, are used to a great extent for the larger size pictures and where broad, artistic effects are desired.

CHLORIDE.

Heavy Smooth—Double weight stock, smooth, absolute matte surface (no lustre).

Medium Rough—Medium weight stock, light grain, absolute matte surface (no lustre).

NON-CURLING.

This brand is made in one surface.

Satin-Regular weight stock, smooth semi-matte surface.

Satin is made in three grades of contrast—hard, medium and soft. Non-curling is also furnished on a heavy stock, and this grade is known as—

Extra Heavy-Double weight stock, smooth semi-matte surface.

This grade (Extra Heavy) is made in medium contrast only.

Non-Curling Post Cards furnished. Same weight, surface and contrast as Extra Heavy.

For portraiture the soft grades should always be used, as the full scale of gradation is necessary. By actual test, the soft grades of Artura have a longer scale of gradation, combined with richness and vigor, than any other developing paper. The hard and medium grades should be used when printing from negatives inclined to flatness. The hard grades should also be used for work that requires great contrast—such as copies of line drawings and maps.

CARBON GREEN.

This brand is for green carbon effects, and is made in two surfaces:

Matte—Regular weight stock, smooth surface (slight sheen or lustre).

Extra Heavy—Double weight stock, smooth semi-matte surface.

CARBON BLACK.

Made in six grades:

Glossy-Regular weight stock, smooth glossy surface.

Studio Special-Regular weight stock, smooth semi-matte surface.

Matte-Regular weight stock, smooth surface (slight sheen or lustre).

Rough Matte-Double weight stock, medium rough lustre surface.

Extra Heavy—Double weight stock, smooth semi-matte surface.

Buff Stock-Rough Matte-Double weight stock, medium rough lustre surface.

Post Cards furnished. Same weight and surface as Extra Heavy.

ARTURA PAPER PRICE LIST.

Grade A.	Doz. ½ Gross. Gross.	Grades B, C, D and E. Doz. ½ Gross. G
Cabinet	1.10 2.00 1.10 2.00 1.10 2.00 1.10 2.00 1.65 2.80 3.5 1.90 3.40 3.5 2.00 3.50 4.0 2.25 4.00 5.50 2.75 5.00 6.6 3.75 7.00 7.5 4.25 8.00 8.0 4.75 9.00 1.00 5.75 11.00 1.20 7.00 13.50 1.80 10.85 20.70 2.40 14.00 27.00 3.20 18.50 36.00 3.40 20.00 39.00 4.00 23.50 46.00 4.80 28.00 55.00	Cabinets. \$ 1.40 4
Artura Chloride. Cabinets.	1.25 2.25 1.25 2.25 1.70 3.15 \$0.40 2.20 3.90	Size. Doz. $\frac{1}{2}$ Gross. G 10 x 12 \$1.35 \$7.75 \$11 11 x 14 1.80 10 20 12 x 15 2.00 12.20 12 x 17 2.55 13.50 14 x 17 2.70 15.50 14 x 18 3.05 16.55 16 x 20 3.60 20.75 17 x 20 3.80 22.50

Artura Non-Curling.	Doz.	Regular ½ Gross.	Weight. Gross.	Doz.	Extra Heavy. ½ Gross.	Gross.
Cabinets.		\$ 1.10 1.10	\$ 2.00 2.00		\$ 1.25 1.25	\$ 2.25 2.25
4 x 6		1.10 1.65	2.00 2.80		1.25 1.70	2.25 3.15
5 x 7	40	2.00 2.25 2.75	3.50 4.00 5.00	\$0.40 .45 .60	2.20 2.50 3.15	3.90 4.50 5.65
6 x 8 6 ½ x 8½	60	3.25 3.75	6.00	.70 .75	3.60 4.20	6.75 7.90
7½ x 9½	80	4.25 4.75 5.75	8.00 9.00 11.00	.85 .90 1.15	5.10 5.25 6.45	9.00 10.00 12.50
9 x 11 10 x 12 11 x 14	1.20	7.00 9.25	13.50 17.50	1.35 1.80	7.75 10.20	15.00 19.75
12 x 15 14 x 17	1.80	10.85 14.00	20.70 27.00	2.00 2.70	12.20 15.50	23.25 30.00
16 x 20 17 x 20 18 x 22	3.40	18.50 20.00 23.50	36.00 39.00 46.00	3.60 3.80 4.50	20.75 22.50 26.75	40.50 43.90 52.50
18 x 22	1.00	28.00	55.00	5.40	32.00	62.50

NOTE—Special cut sizes at practically proportionate prices on orders of a dozen or more amounting to \$1.00 list or more. Any width up to 40 inches other than listed is furnished in rolls not less than 10 yards long.

Artura Non-Curling Rolls.

REGULAR WEIGHT.	EXTRA HEAVY.
10-foot rolls (20 in. wide), per roll. \$1.65	10-foot rolls (20 in. wide), per roll. \$1.90
10-foot rolls (40 in. wide), per roll. 3.30	10-foot rolls (40 in. wide), per roll. 3.80
10-yard rolls (20 in. wide), per roll. 4.35	10-yard rolls (20 in. wide), per roll. 5.60
10-yard rolls (40 in. wide), per roll. 8.70	10-yard rolls (40 in. wide), per roll. 11.20

FRED J. FELDMAN	CO., EL PAS	O, TEXAS	•		. 11.
Size	Carbon Green.		ro. Gross	Extra Heav	vy Gross
Cabinets. 4		\$0.35 2. 40 2. 50 3. 65 3. 75 4. 1.00 5. 1.20 7. 1.60 9. 1.80 10. 2.40 14. 3.20 18. 3.40 20. 4.00 23.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\$1.25 1.25 1.25 1.20 \$0.40 2.20 .45 2.50 .60 3.15 .70 3.60 .75 4.20 .90 5.25 1.15 6.45 1.35 775 1.80 10.20 2.70 15.50 3.60 20.75 3.80 22.50	\$2.25 2.25 3.15 3.90 4.50 5.65 7.90 9.00 12.50 19.75 23.25 30.00 40.50 40.50 43.90 52.50
20 x 24	• • • • • • • • • • • • • • • • • • • •	4.80 28.	00 55.00 XTRA HEA	5.40 32.00 VY	62.50
10-foot rolls (20 in. wide), per roll	3.30 10-foot	rolls (20 ir rolls (40 ir	. wide), per	roll	3.80
Size Cabinets. 4		\$0.30 1. \$0.30 1. 40 2. 450 2. 60 3. 60 3. 75 4. 990 6.	## 1.50 ## 1.5	Rough Mattextra Heavy an Doz. ½ Gro \$1.10 1.10 1.65 \$0.35 2.00 40 2.25 .50 2.75 .60 3.25 .65 3.75 .60 3.25 .65 3.75 .75 4.25 .80 4.75 1.20 7.00 1.60 9.25 1.80 10.85 2.40 14.00 3.20 18.50	d Buff
16 x 20 1 17 x 20 1 18 x 22 1 18 x 22 1 19 1 19 1 19 1 19 1 19 1 19 1 19		2.55 15. 3.00 18. 3.60 21.	00 29.25 00 34.50	3.40 20.00 4.00 23.50 4.80 28.00	39.00 46.00 55.00
REGULAR WEIGHT.	ROUGH	MATTE, I	EXTRA HEA	AVY AND BUF	F.
10-foot rolls (20 in. wide), per roll	2.50 10-foot ro 3.35 10-yard r 6.70 10-yard r	olls (40 in. olls (40 in. olls (40 in.	wide), per wide), per wide), per	rollrollroll	4.35 8.70
to \$1.00 list or more. Any width up to 40 inches other than listed	is furnished in	rolls not l	ess than 10	yards in leng	th.
	Azo.				11.00
Azo is a quick printing paper of the develo	pment class, ha	iving a qua	lity that is	not equaled b	yany

other paper at anywhere near its price.

Azo is furnished in the following surfaces: Carbon, Rough, Glossy and Semi-Gloss, Semi-Matte, Matte and Buff, and in three qualities—Soft, Hard, and Hard X—this grade being more contrasty than the Hard.

A (Car	bon) Single and Double weights—Soft, Hard and Hard X.	
B (Ro		
C (Glo	ssy) Single and Double weights in Soft and Hard; Hard X in Single weight only.	
	Single weight Azo C, is pense, Double weight is White.	
D (Sen	ni-Gloss) Single and Double weights—Soft and Hard.	
E (Sen	ni-Matte) Single and Double weights—Hard and Hard X and Hard Medium.	
Avenue de la col	Soft—in Double weight only.	
F (Glo	ssy) Single weight in Hard and Hard X. Double weight in Hard X only.	
G (Ma	tte) Single weight only—Hard and Hard X.	
H (Bu	off) Double weight in Hard and Special.	
· K (Vel	vet) Semi-Goss. Double and single weight.	

PRICE OF AZO

SINGLE WEIGHT AZO.

Size	Doz.*	Doz.	Gross*	Gross	Size	D	1 oz.*	Doz.	Gross*	1 Gross
2 ¼ x2 ¼. 2 ¼ x3 ¼. 2 ¼ x7 ½. 2 ½ x7 3 ½. 3 ½ x3 ½. 3 ½ x1 ½. 3 ½ x1 2. 3 ¼ x4 ¼. 3 ¼ x5 ½. 3 ¼ x 5 ½. 3 ¼ x 5 ½. 3 ¼ x 5 ½. 3 ¾ x 5 ½. 3 ¾ x 5 ½.	\$0.25	\$0.20 .20 .20 .25 .20 .20 .20 .20 .25 .25 .25	\$1.10	\$0.75 .75 .75 1.00 .90 .90 .90 2.00 .90 1.00 1.00	4 ¼ x 6 ½ x 7 . 5 x 8 . 5 ½ x 7 3 4 , 6 x 8 ½ x 7 1 ½ x 9 ½ . 7 x 9 ½ . 8 x 10 . 9 x 11 . 10 x 12 . 11 x 14 . 17 .	Paris Panel	0.15 .20 .25 .25 .25 .30 .35 .40 .40 .50 .60 .80		\$0.95 1.10 1.10 1.40 1.55 1.65 1.95 2.20 2.90 3.60 4.40 6.60	\$1.35 1.75 2.00 2.00 2.50 2.75 3.00 3.50 4.00 5.25 6.50 12.00
3 % x5 %	15			1.00 1.00 1.00	18 x22.		2.00		9.10 11.55 13.75	16.50 21.00 25.00

*1 Not furnished in $\frac{1}{2}$ gross in sizes smaller than 5x7. *2 Not furnished in dozens in sizes 4x5 and smaller.

Special cut sizes at practically proportionate prices on orders of a dozen or more, amounting to \$1,00 list or more.

ROLLS-SINGLE WEIGHT, ALL GRADES.

10-foot roll, 20 inches wide	08.01
10-foot roll, 40 inches wide	1.60
10 yards, 20 inches, \$2.40. 10 yards, 40 inches	4.80
Any width up to 40 inches, other than the above, furnished in rolls not less than 10 yards in len	

ROLLS FOR CIRKUT CAMERA PRINTS.

	6 in.	61/2 in.	8 in.	10 in.	16 in.
25-foot	\$0.60	\$0.65	\$0.75	\$0.95	\$1.50
00-1006	1.20	1.30	1.50	1.90	3.00
100-foot	2.40	2.60	3.00	3.80	6.00

DOUBLE WEIGHT AZO.

Azo Paper, double weight, is furnished in seven grades: A—Carbon, B—Rough, C—Glossy, D—Semi-Gloss, E—Semi-Matte, F—Glossy, (in Hard X only), H—Buff and K—Velvet.

AZO E, SOFT, DOUBLE WEIGHT.

With the addition of Grade E, Soft, Double Weight, Grade E Azo may now be had in E Soft, Hard, Hard X and Hard Medium.

This makes the Azo line most complete, affording grades, weights and degrees of contrast to meet every requirement of the users of this popular product.

Grade E, Soft, Double Weight is supplied in all regular sizes and in post cards.

	1	2				1	1/2	
Size	Doz. *2	Doz.	Gross	Size	Do	z *2	Gross *1	Gross
24 x24		\$0.25	\$0.95	5 1/2 x 7 3/4		0.35	\$1.40	\$2.50
2 ¼ x3 ¼		.25	.95			.35	1.75	3.15
214 x 314		.25	.95	011-011		.40	1.95	3.45
24 x7		.35	1.25			.45	2.10	3.70
		.25	1.15			.45	2.10	3.75
21/23/4.		.25	1.15			.50	2.45	
3 ½ x 3 ½			1.15					4.40
3 X4		.25			,	.50	2.75	5.00
3 1/4 x 12	\$0.35	**11	2.50			.65	3.65	6.60
34x44		.25	1.15			.65	3.65	6.60
3 1/4 x 5 1/2		.35	1.25			1.00	4.70	8.40
34x6		.35	1.25	10x12		.75	4.50	8.15
4 x5		.35	1.25	11x14		1.00	5.50	10.00
3%x6%	00		1.25			1.50	7.30	13.10
3 % x 5 4. Cabinet			1.25			1.50	8.25	15.00
3 1/4 x 5 1/4	A STATE OF THE STA		1.25			1.80	9.20	16.50
4 x6	00	½ gro.	1.25			2.00	11.40	20.65
44 x64.	-00	, , ,	1.70	10 00		2.50	14.45	26.25
	0.5	1.20	2.20			3.00	17.20	
5 x7	0.5			AUX 4		3.00	17.20	31.25
5 x8	35	1.40	2.50					

*1 Not furnished in ½ gross in sizes smaller than 5x7. *2 Not furnished in dozens in sizes 4x5 and

Special cut sizes at practically proportionate prices on orders of a dozen or more amounting to \$1.00 list or more.

ROLLS-DOUBLE WEIGHT.

10-foot roll, 20 inches wide	
10-foot roll, 40 inches wide	00
Any width up to 40 inches other than the above furnished in rolls not less than 10 yards in length.	

ROLLS FOR CIRKUT CAMERA PRINTS.

Size 25-foot.	6 in.	6½ in. \$0.80	8 in. \$0.90	10 in. \$1.15	16 in. \$1.80
60-foot,	1.50	1.60	1.80	2.30	3.60
100-foot	3.00	8.20	8.60	4.60	7.20

Velox Paper

The various grades and surfaces of Velox cover perfectly and completely the requirements of the average amateur negative. In addition, the pleasing tones and the possibilities for quick delivery have combined to make Velox the paper almost universally used by the professional or stock dealer doing amateur finishing.

Velox is divided broadly into two kinds of paper, called "Regular" and "Special," each division con-

taining a variety of surfaces.

list or more.

"Regular" papers develop quickly and are best suited for negatives lacking contrast. "Special" papers develop slowly, and give soft effects from hard negatives. Use "Special" Velox for negatives producing good results on "Printing-Out" paper (such as Solio), and "Regular" only with very flat nega-

Velox Surfaces: In the "Regular" class, are Carbon (matte surface), Glossy, Glossy double weight, Velvet, Velvet double weight, and Royal. "Regular" Velvet Velox is semi-glossy and gives prints of

exceptional beauty. This paper will give satisfactory results from very flat negatives.

In the "Special" class, the surfaces are Carbon (matte surface), Portrait (smooth matte), Portrait double weight, Rough, Glossy, Glossy double weight, Velvet, Velvet double weight, and Royal.

"Special" Velvet Velox has a greater range than any of the other "Special" papers.

Royal Velox is coated on a soft mellow tinted stock, which, when redeveloped, affords all the soft delicacy of a rare old etching. Royal Velox is made in the two grades—"Regular" and "Special," and one surface, just rough enough to produce the desired effect. one surface, just rough enough to produce the desired effect.

				200.0
BERNE .	OV_	Sin orla	Wei	oht.

Glossy (Regular and Special), Potonly), Velvet (Regular and Special)	rtrait (St	pecial o	only), Carbon (Regular and Special), Rough (Special)	
only), Velvet (Regular and Special) Size Doz.	4 Gross	Gross	Size Doz. ½ Gross Gross	
24x24, 24x24, 24x34, 24			4 3/4 x 6 1/2	5
x3½, 2¼x3¾\$0.15	\$0.60	\$1.00	5 x71/2	5
2¼x7	.80	1.50	5 x8)
2½x4¼		1.25	3½x12)
3½ x3½		1.50	6 x8	0
		1.25	6½ x8½	
			7 1/4 x 9 1/4	0
3½x4		1.50	8 x10	
4 x4		1.50	10x12 1.20 7.00 13.50	0
3½ x4½	COUNTY OF THE	1.50	11x14 1.60 9.25 17.50 12x15	0
3½ x5½		1.50	14x17 2.40 14.00 27.00	0
4½ x4½		1.50 2.00	16x20 3.20 18.50 36.00	0
3% x5%. Cabinet		2.00	18x22 4.00 23.50 46.00	0
3% x5 %		2.00	20x24 4.80 28.00 55.00	0
3 % x 6 ½		2.00	22x27	
4 x5	PROBLEM CONTRACTOR	2.00	25x30	•
4½ x5½	1.10	2.00	24x36	
4 x6		2.00	40x60	
4 1/4 x 6 1/2		2.80	40x72	•
Special cut sizes at practically p	proportion	nate pr	rices on orders of a dozen or more amounting to \$1.00	0
list or more.				
			olls. 0 10-foot roll, 40 inches wide \$ 4.0	
10 6 -4 -11 00 1 -1 1			III III-TOOT FOIL AH INCHES WING	
10-foot roll, 20 inches wide		6.0	10 10-100t roll, 40 inches wide	Ö
10-yard roll, 20 inches wide		6.00	0 10-yard roll, 40 inches wide 12.0	Ö
10-yard roll, 20 inches wide Velox (Singl		6.00	10 10-yard roll, 40 inches wide	0 1.
10-yard roll, 20 inches wide	le Weigh	t) for I	10 10-yard roll, 40 inches wide	0 1. 0
10-yard roll, 20 inches wide Velox (Sing) Size 25-foot	le Weigh	t) for I	10 10-yard roll, 40 inches wide	0 1. 0
10-yard roll, 20 inches wide	le Weigh	6.00 t) for I	10 10-yard roll, 40 inches wide	0 1. 0
10-yard roll, 20 inches wide Velox (Single 25-foot	le Weigh	t) for I	10 10-yard roll, 40 inches wide	0
10-yard roll, 20 inches wide	VEI the follows.	t) for I	10 10-yard roll, 40 inches wide	0
Size Size Ouble weight Velox is made in vet, Regular Glossy and Special Glo	VEI	t) for I	10 10-yard roll, 40 inches wide	0
10-yard roll, 20 inches wide	VEI the follows 1½ Gross	t) for I	10 10-yard roll, 40 inches wide	0
10-yard roll, 20 inches wide. Velox (Single 25-foot. 50-foot. 100-foot. Double weight Velox is made in vet, Regular Glossy and Special Glo Size 2½ x2½, 2½ x3½, 2½ x3½, 2½ x 3½, 2½ x 3½, 2½ x 7 20.20	vel the follossy.	6.00 t) for I 	10 10-yard roll, 40 inches wide	0
10-yard roll, 20 inches wide. Velox (Sing) Size 25-foot. 50-foot. 100-foot. Double weight Velox is made in vet, Regular Glossy and Special Glo Size 2½ x2½, 2½ x3½, 2½ x3½, 2½ x 3¾, 50.20 2½ x7	weight the follows: 1/2 Gross 1/2 Gross 1 1.00 1 .00 1 .00	t) for I	10 10-yard roll, 40 inches wide	0 1.0000
10-yard roll, 20 inches wide Velox (Single Size 25-foot 50-foot 100-foot Double weight Velox is made in vet, Regular Glossy and Special Glo Size Doz. 2½ x2½, 2½ x3½, 2½ x3½, 2½ x 3½, 2½ x 3½ x 3½ 24 x 7 24 x 7 25 x 3½ x 3½ 26 x 3 x 4 20 x 3 x 4	veight the follossy. 4/2 Gross 1.0090	6.00 t) for I 	10 10-yard roll, 40 inches wide	0
10-yard roll, 20 inches wide. Velox (Sing) Size 25-foot. 50-foot. 100-foot. Double weight Velox is made in vet, Regular Glossy and Special Glo Size 2½x2½, 2½x3½, 2½x3½, 2½x 3¾, 2½x3½, 2½x 3¾, 2½x3½, 2½x 3½x4½, 22x	vEI the follossy. \$0.75 1.00 1.00 90 1.00 1.00	t) for I LOX—Do owing a \$1.25 1.90 1.55 1.90	10 10-yard roll, 40 inches wide	0 1.0000 - 85505055
10-yard roll, 20 inches wide. Velox (Sing) Size 25-foot. 50-foot. 100-foot. Double weight Velox is made in vet, Regular Glossy and Special Glo Size 2½ x2½, 2½ x3½, 2½ x3½, 2½ x 3¾, 50,20 2½ x7 20 2½ x4½, 2½ x4½, 2½ x 3½ x4½, 2½ x4½, 2½ x 3½ x4½, 20 3	vEI the follows: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	6.04 t) for E	10-yard roll, 40 inches wide. 12.00	0 1.0000 - 85550505500
10-yard roll, 20 inches wide. Velox (Sing) Size 25-foot. 50-foot. 100-foot. Double weight Velox is made in vet, Regular Glossy and Special Glo Size 2½ x2½, 2½ x3½, 2½ x3½, 2½ x 3¾, 2½ x3½, 2½ x 3½, 2½ x4½, 2½ x 3½ x3½. 24 x4 20 3½ x3½. 24 x4½. 20 3¼ x5½. 24 x4¼. 20 4 x4¼. 20 4 x4¼. 20 4 x4¼. 20	vEI the follossy. '2 Gross 0 \$0.75 0 1.00 0 1.00 0 1.00 0 1.00 0 1.00 0 1.00	6.00 t) for I 	10-yard roll, 40 inches wide	0 1.0000 - 855055055005
10-yard roll, 20 inches wide. Velox (Sing) Size 25-foot. 50-foot. 100-foot. Double weight Velox is made in vet, Regular Glossy and Special Glo Size 2½ x2½, 2½ x3½, 2½ x3½, 2½ x 3¾, 2½ x4 x3½, 2½ x 3½ x4 22 x 2½ x4 x 22 x 22 x 22 x 22 x 22	vEI the follows: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	6.04 t) for E	10 10-yard roll, 40 inches wide	0000 - 555055005500550
10-yard roll, 20 inches wide. Velox (Sing) Size 25-foot. 50-foot. 100-foot. Double weight Velox is made in vet, Regular Glossy and Special Glo Size 2½ x2½, 2½ x3¼, 2½ x3½, 2½ x 3¾, \$0.20 2¼ x7 2¼ x7 2¼ x7 2¼ x4¼, 20 3¼ x3½, 20 3¼ x4¼, 20 3¼ x5½, 20 4 x4 4 x4¼, 20 4 x4¼, 20 3½ x4¼, 30 3½ x4¼, 3	VEI the follows with th	6.04 t) for E	10 - yard roll, 40 inches wide	0 0000 - 35500550055005
10-yard roll, 20 inches wide. Velox (Sing) Size 25-foot. 50-foot. 100-foot. Double weight Velox is made in vet, Regular Glossy and Special Glo Size 2½x2½, 2½x3½, 2½x3½, 2½x 3½x2½, 2½x3½, 2½x 3½x3½. 2½x7 2½x4½ 20 3½x3½. 20 3½x3½. 20 3½x4½. 20 3½x5½. 20	vFII the followsy. '½ Gross '½ Gross '½ Gross '1.00	40 X—De owing a Gross \$1.25 1.90 1.90 1.90 1.90 1.90 2.56 2.50 2.50	10 10-yard roll, 40 inches wide	0 1.0000 - 8550550550055050
10-yard roll, 20 inches wide. Velox (Sing) Size 25-foot. 50-foot. 100-foot. Double weight Velox is made in vet, Regular Glossy and Special Glo Size 2½-x2½, 2½-x3½, 2½-x3½, 2½-x 3½-x2½, 2½-x3½, 2½-x3½, 2½-x 3½-x2½-x2½, 2½-x3½, 2½-x 3½-x2½-x2½-x2½-x2½-x 3½-x2½-x2½-x2½-x2½-x2½-x2½-x2½-x2½-x2½-x2	VEI the follows with th	6.04 t) for E	10 10-yard roll, 40 inches wide	0000 - 8550505500550505
10-yard roll, 20 inches wide. Velox (Sing) Size 25-foot. 50-foot. 100-foot. Double weight Velox is made in vet, Regular Glossy and Special Glo Size 2½ x2½, 2½ x3½, 2½ x3½, 2½ x 3¾, 2½ x 3¾, 2½ x3½, 2½ x 3½ x4½, 2½ x3½, 2½ x 3½ x4½, 2½ x4½, 2½ x 3½ x4½, 2½ x4½, 2½ x 3½ x4½, 2½ x4½, 2½ x 3½ x4½, 3½ x 3½ x 3½ x4½, 3½ x	*** *** *** *** *** *** *** *** *** **	40 X—De owing a Gross \$1.25 1.90 1.90 1.90 1.90 1.90 2.56 2.50 2.50	10-yard roll, 40 inches wide. 12.00	0
10-yard roll, 20 inches wide. Velox (Sing) Size 25-foot. 50-foot. 100-foot. Double weight Velox is made in vet, Regular Glossy and Special Glo Size 2½ x2½, 2½ x3½, 2½ x3½, 2½ x 3½, 2½ x3½, 2½ x 3½ x2½, 2½ x3½, 2½ x 3½ x4½, 2½ 3½ x4½, 22 3½	veight the follossy. 4/2 Gross 1/2 Gross 1/2 Gross 1/2 Gross 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.	6.04 t) for I	10-yard roll, 40 inches wide. 12.00	0
10-yard roll, 20 inches wide. Velox (Sing) Size 25-foot. 50-foot. 100-foot. Double weight Velox is made in vet, Regular Glossy and Special Glo Size 2½-x2½, 2½-x3½, 2½-x3½, 2½-x 3¾-7 20 2½-x4½ 20 3½-x4½ 20 3½-x4½-x4½ 3½-x4½ 20 3½-x4½-x4½ 3½-x4½-x4½-x4½ 3½-x4½-x4½-x4½ 3½-x4½-x4½-x4½-x4½ 3½-x4½-x4½-x4½-x4½-x4½-x4½-x4½-x4½-x4½-x4	veight the follows: 1/2 Gross 1	6.04 for F	10-yard roll, 40 inches wide. 12.00	0
10-yard roll, 20 inches wide. Velox (Sing) Size 25-foot. 50-foot. 100-foot. Double weight Velox is made in vet, Regular Glossy and Special Glo Size 2½-x2½, 2½-x3½, 2½-x3½, 2½-x 3¾-2½-x4½, 2½-x3½, 2½-x 3½-x2½-x4½, 2½-x3½, 2½-x 3½-x4½, 2½-x4½, 2½-x 3½-x4½, 2½-x4½, 2½-x 3½-x4½, 2½-x4½, 2½-x 3½-x4½, 2½-x 3½-x 3½-x 3½-x 3½-x 3½-x 3½-x 3½-x 3	veight the follossy. 1/2 Gross 1.00	6.00 t) for I	10-yard roll, 40 inches wide. 12.00	0

VELOX DOUBLE WEIGHT—Continued.

R		

10-foot roll, 20 inches wide	.00 10-yard above, furnished	roll, 20 inches roll, 40 inches in rolls not les	wides than 10		. 15.00
	for Friats from	CIFRUI Negative	S.		
Size 25-foot		6 in. 6 1/2 in.	8 in.	10 in.	16 in.
25-foot		1.90 \$ 2.10		\$ 3.15	\$ 5.00
50-foot		3.80 4.20	5.00	6.30	10.00
100-foot		7.60 8.40	10.00	12.60	20.00

EASTMAN'S PERMANENT BROMIDE PAPER.

Velvet: Suited to negatives have broad shadows, especially adapted to enlarging from landscape negatives.

Standard: A natural surface bromide paper, adapted to all kinds of enlargements, and particularly copies on which crayons or pastel work is to be done. Five weights: A—Thin Smooth; B—Heavy Smooth; C—Heavy Rough; B. B.—Heavy Smooth, Double Weight; C. C.—Heavy Rough, Double Weight.

Use A for small enlargements, B for large enlargements, C for large work which is to be finished in crayon, pastel, India ink, water colors or oil.

Platino: Results so like platinum that the difference is difficult to detect. Two weights: A—Thin Smooth; C—Heavy Rough. Use A for small enlargements. Use C for large enlargements which are to be finished in crayon, pastel, India ink, water colorsor oil.

Matte Enamel: A smooth, velvety matte surface, tinted just enough to lend warmth to high lights

and half-tones. Medium weight only.

Enameled: A glossy surface paper, affording enlargements closely resembling contact prints. Medium weight only.

Royal: Coated on a delicate cream stock, affording a softness and delicacy resembling an old etching. Smooth and Rough.

Single Weight Standard B.B.&C.C.only						4 14	~.				ble Weig		
		The state of the s				.C.only	and all all	Sin	gle Weig	ht, S	tandard	B.B.&C	.C.only
Size	Doz.	1/2 Gro.	Gross	Doz.	1/2 Gro.	Gross	Size	Doz.	1/2 Gro.	Gross	Doz.	1/2 Gro.	Gross
21/2 x21/2	\$0.15	\$0.60	\$1.00	\$0.20	\$0.75	\$1.25	3 1/2 x 12	\$0.45	\$2.50	\$4.50	\$0.55	\$3.15	\$5.65
21/4 x3 1/4	.15	.60	1.00	.20	.75	1.25	5 1/2 x 7 3/4	.45	2.50	4.50	.55	3.15	5.65
2 1/4 x 3 1/2	.15	.60	1.00	.20	.75	1.25	6 x8	.50	2.75	5.00	.65	3.45	6.25
21/4 x3 3/4	.15	.60	1.00	.20	.75	1.25	6.½ x8½	.60	3.25	6.00	.75	4.05	7.50
21/2 x 4 1/4	.15	.70	1.25	.20	.90	1.55	7 x9	.65	3.75	7.00	.80	4.70	8.75
3 x4	.15	.70	1.25	.20	.90	1.55	71/2 x9 1/2	.75	4.25	8.00	.95	5.30	10.00
3 1/2 x 3 1/2	.15	.80	1.50	.20	1.00	1.90	8 x10	.80	4.75	9.00	1.00	5.95	11.25
314 x414	.15	.80	1.50	.20	1.00	1.90	9 x11	1.00	5.75	11.00	1.25	7.20	13.75
3 1/4 x 5 1/2	.15	.80	1.50	.20	1.00	1.90	10x12	1.20	7.00	13.50	1.50	8.75	16.90
4 x4	.15	.80	1.50	.20	1.00	1.90	11x14	1.60	9.25	17.50	2.00	11.55	21.90
41/4 ×41/4	.15	.80	1.50	.20	1.00	1.90	12x15	1.80	10.75	20.50	2.25	13.45	25.65
3½ x4 2¼ x7	.15	.80	1.50 1.50	.20	1.00	1.90	14x17	2.40	14.00	27.00	3.00	17.50	33.75
4 x5	.25	1.10	2.00	.20	1.00	1.90	16x20 17x20	3.20	18.50	36.00	4.00	23.15	45.00
3 % x 5 1/2	.25	1.10	2.00	.30	1.40	2.50 2.50	18x22	3.40	20.00 23.50	39.00	4.25	25.00	48.75
3 % x5 %	.25	1.10	2.00	.30	1.40	2.50	20x24	4.80	28.00	46.00 55.00	5.00	29.40	57.50
41/4 x51/2	.25	1.10	2.00	.30	1.40	2.50	22x27	6.00			6.00 7.50	35.00	68.75
4 x6	.25	1.10	2.00	.30	1.40	2.50	24x30	7.20			9.00		
4 1/4 x 6 1/2	.30	1.65	2.80	.40	2.05	3.50	25x30	7.50			9.40	• • • • •	
4 3/4 x 6 1/2	.35	1.90	3.25	.45	2.40	4.05	24x36	8.70		.,.,	10.90		
5 x7	.35	2.00	3.50	.45	2.50	4.40	30x40	12.00			15.00		2 30 4
5 x7½	.40	2.15	3.75	.50	2.70	4.70	40x60	24.00			30.00		****
5 x8	.40	2.25	4.00	.50	2.80	5.00	40x72	28.80			36.00		
-		20			2.00	0.00		-0.00			00.00		****

Special cut sizes at practically proportionate pri ces on orders amounting to \$1.00 list or more.

Rolls-Single Weight.	Rolls-Double Weight.
10-foot roll, 20 inches wide\$ 2.00 10-foot roll, 40 inches wide 4,00	10-foot roll, 20 inches wide\$ 2.50 10-foot roll, 40 inches wide 5.00
10-yard roll, 20 inches wide. 6.00 10-yard roll, 40 inches wide. 12.00	10-yard roll, 20 inches wide
Any width up to 40 inches other than the above	furnished in rolls not less than 10 yards in length

P. M. C. BROMIDE PAPERS.

No. 1. Thin, smooth paper, suitable for small contact prints. No. 2. Heavy, smooth; practically the same as No. 1, only heavier paper; more suitable for large prints. No. 3. Heavy, rough paper for crayon or air-brush work. No. 4. Glossy paper, intended for negatives where prints are not to be worked. No. 5. Matte-surface, suitable for enlarging, contact, crayon or air-brush work. No. 6. Smooth, double weight. No. 7. Rough, double weight. No. 8. Smooth surface, Buff stock, double weight. Nos. 1, 2, 3, 4 and 5- Single Weight

				74.000	T' we or	r anu o	45.00	Dingie '	A CIN II	STATE OF THE STATE					The state of the s	
	Size	era.	I	Oozen	1/2 Gro.	Gross	1	Size				Doze	n 1	Gro.	Gross	
2	1/2 x 2 1/2.			\$0.10	\$0.60	\$1.00		5 x71/2.				\$0.3	0	\$1.50	\$2.50	
2	1/2 x 4 1/4.			.10	.60	1.00		5 x8 .				3	0	1.60	2.70	
3	1/2 x 3 1/2.			.10	.60	1.00		31/2 x12.				31	0	1.70	2.90	
				.10	.60	1.00		5 1/2 x 7 3/4.					0	1.75	3.00	
3				.10	.60	1.00		6, x8 .					5	2.00	3.50	
4				.10	.60	1.00	1	6 1/2 x 8 1/2.				41	0	2.25	4.00	
3				.10	.60	1.00	1	7 x9 .				4	5	2.50	4.50	
				.10	.60	1.00		7½ x9½.				50	0	2.90	5.25	
				.20	.75	1.40	1	8 x10.				5	5	3.25	6.00	
				.20	.75	1.40	1						0	4.75	9.00	
				.20	.75	1.40	1:	11x14 .				1.0	5	6.25	11.50	
4	,00			.20	.75	1.40	1	.12x15				1.20	0	7.25	13.50	
4				.20	.75	1.40		14x17 .				1.60	0	9.50	18.00	
4				.20	.75	1.40		16x20 .					0	12.50	24.00	
4				.20	1.20	1.90	3	17x20 .				2.3	0	13.25	25.50	
			01411111111	.25	1.30	2.10		18x22 .				2.7	0	16.00	31.00	
5	x7	1 1 1 1 1 1 1 1 1	W	.25	1.45	2.40		20x24 .				3.20	0	19.00	37.00	
Para	Onsois!	out ginen	furnished at	nraati	onlly n	roportic	no	to prices	on o	rdere a	mounti	ne to \$1	00.	liet or	more	
	Special	cut sizes	Turmsneu at	practi	carry p	opor cic	TIC	rec prices	011 0	acto a	THE WHILL	AT				

FRED J. FELDMAN CO., EL PASO, TEXAS. P. M. C. BROMIDE PAPERS—Continued. P. M. C. Bromide Paper in Rolls (Single Weight). P. M. C. Bromide (Double Weight). Double Weight is Furnished in Three Grades, Nos. 6, 7 and 8. Dozen ½ Gro. Gross ...\$0.40 \$1.90 \$3.1540 2.00 3.4040 2.15 3.65 Dozen ½ Gro. Gross \$0.15 \$0.75 \$1.25 15 75 1.25 15 75 1.25 15 75 1.25 15 75 1.25 \$0.40 40 2 1/2 x 2 1/2. 2 1/2 x 4 1/4. 3 1/2 x 3 1/2. .75 .75 .75 .75 1.25 1.25 1.25 1.25 1.75 1.75 1.75 1.75 1.75 2.85 3.15 5.00 .15 3.65 6.60 .25 .95 5.95 11.25 .95 16.90 9 10 22.50 30.00 .25 .95 15.65 31.90 .25 1.50 3.00 .35 1.85 Special cut sizes at practically proportionate prices on orders amounting to \$1.00 list or more. P. M. C. Bromide Paper in Rolls (Double Weight.) 10-foot roll, 20 inches wide. \$1.70 10-yard roll, 20 inches wide. \$5.00 10-foot roll, 40 inches wide. 3.40 10-yard roll, 40 inches wide. 10.00 Any width up to 40 inches other than the above furnished in rolls not less than 10 yards in length. GELATINE PRINTING-OUT PAPERS. SOLIO. A glossy surface, printing-out paper, unequaled for all classes of work where fine detail is necessary. Solio. 1/2 Doz. Dozen 1/2 Gross Gross Doz. ½ Gross Gross2 dz. \$0.20 \$0.60 \$0.90 Size 2 ½ x2 ½ 2 dz 2 ½ x2 ½ 2 dz 2 ½ x3 ½ 2 dz 2 ¼ x3 ¼ 2 dz 2 ¼ x3 ½ 2 dz 2 ¼ x3 ½ 2 dz 2 ¼ x7 2 dz 2 ½ x4 ¼ 2 dz 3 ½ x4 4 2 dz 3 ¼ x5 ½ 2 dz 3 ¼ x5 ½ 2 dz 3 ¼ x6 ½ 2 dz 3 ½ x6 ½ 2 dz Size \$0.90 \$0.30 \$1.60 1.70 1.75 \$2.65 2.90 3.00 .20 .60 .90 3.25 .90 35 2 00 2.25 4.00 1.25 2.40 2.75 3.25 .90 5.00 .60 1.00 .60 3.50 6.50 .60 1.25 .70 .60 .70 .70 .70 .75 .75 .75 .90 1.20 1.35 5.25 10.00 .20 1.25 8 25 15.50 .25 1.80 20.00 1.25 1.25 1.35 1.35 .25 2.40 2.60 27.00 14.00 15.00 17.50 29.00 3 % x 5 ½. 3 % x 5 ½. Cabinet 3 % x 5 %. 3.00 34.00 40.00 1.35 1.85 1.35 2.10 Cabinet Seconds, 100-sheet package...... .80 4 1/4 x 6 1/2 4 3/4 x 6 1/2 .25 1.40 X6 1.40 2.40 Special cut sizes at practically proportionate prices on orders of a dozen or more amounting to \$1.00 ROLLS. KRESKO

KILDIO			
Kreske is a glossy printing-out paper, good in quality, though low in price.	Popular	paper	where
price is a consideration.			
	1 Doz.*	1/2 Gro.*	Gross
Size Gross Size 2½ x2½	\$0.20	\$0.95	\$1.75
2 ½ x 3 ½			2.00
214 v 41/2 .90 5 x8		1.10	2.00
316 x316		1.10	2.00
3 x4		1.40	2.50 2.75
3½ x 4½		1.55 1.65	3.00
2½x7		1.95	3.50
3 ½ x5 ½	The second second second second	2.20	4.00
0 % 10		2.90	5.25
		3 60	6.50
37% x51/2, Cabinet		4.40	8.00
3 % x5 %. 1.00 14x17		6.60	12.00
4 x6		9.10	16.50
414 x 616		11.55	21.00
20x24	2.40	13.75	25.00
•Not furnished in ½ gross or dozens in sizes smaller than 5x7.			
20 in. 40 in.		20 in.	40 in.
10-foot\$0.80 \$1.60 10 yards	- 40	. \$2.40	\$4.80
Any width up to 40 inches other than above, furnished in rolls not less that	n to yard	s in le	igth.

POST CARDS.

VELOX.

velvet (Special and Regular); Portrait	(Spe-
cial); Royal (Special and Regular); and (Hossy
Special and Regular).	
Per dozen	.\$0.20
Per ½ gross	. 1.10
Per gross	. 2.00
Per 500	. 5.25
KODAK VELVET GREEN.	
RODAR VELVET GREEN.	
Per dozen	.\$0.20
Per ½ gross	. 1.10
Per gross	. 2.00

SOLIO AND AZO.

Solio Coated with Regular Solio Emulsion.
Azo: A (Carbon), Soft, Hard and Hard X;
C (Glossy), Soft and Hard; D (Semi-Gloss, Pense), Soft and Hard; E (Semi-Matte), Soft, Hard, Hard-medium and Hard X; F (Glossy), Hard X; K (Semi-Glossy)

Per Dozen	5
Per 2 dozen	5
Per ½ gross	5
Per gross	
Per 500)
Azo in cases containing 5,000 Cards of one	
grade	0
Ditto with Special Printing	

EASTMAN FERRO-PRUSSIATE.

(Blue Print.)	Hermetically	sealed	in tin	cans.
Per dozen				
Per gross				. 1.50
Per 500				

ARTURA.

Medium	and Soft.	Non-Curling,	Carbon	Black
and Carbo				
Per 500.				. 5.00

P. M. C. BROMIDE.

In grades Matte, Semi-Gloss and Glossy.	
Per dozen.	0.15
Per 2 dozen	.25
Per ½ gross	
Per gross	1.35
Per 500	
P. M. C. in cases containing 5,000 Cards	27.00
Ditto, with Special Printing	28.25

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tion.						1.00

ANNUALS.

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American	Annual,	paper.	 	 			. 9	0.75
British Jo								

EASTMAN N. C. FILM CARTRIDGES.

CAMERAS	Size	No. of Film	6 Exp.	12 Exp.
Pocket Kodak	11/2x2	102		.25
No. 0 F. P. Kodak	15/8x21/2	121	.15	.25
No. 0 Graphic			0.55 Sph 10.	1
Vest Pocket Kodak	15/8x21/2	127		
No. 0 Brownie Camera	0 01/			000
No. 1 Falcon Kodak	2 x2½ 2¼x2¼			30
No. 1 Kodak Jr.	21/4X21/4	117	.15	
No. 2 Brownie Camera	21/4x31/4	120	.20	
No. 2 F. P. Brownie	2/4/0/4	120	(3 Exp.)	(6 Exp.)
No. 1 F. P Kodak	21/4x31/4	105	Pan.	Pan.
No. 1 Panoram Kodak	-/-	4 -	.20	.40
No. 1A Kodak Jr.				
No. 1A F. P. Kodak				
No. 1A F. P. Kodak			经 为 5 多	
R. R. Type	01/ 41/	110	0.5	-0
No. 1A Speed Kodak	2½x4¼	116	.25	.50
No. 1A Special Kodak				
No. 2A Brownie Camera				
No. 2A F. P. Brownie				
No. 1A Graflex Camera				
No. 2 F. P. Kodak No. 2 Bullet			(3 Exp.)	(6 Exp.)
No. 2 Bullet			No. 2	No. 2
No. 2 Bulls-Eye			Stereo	Stereo
No. 2 Folding Bulls-Eye	3½x3½	101	.30	.60
No. 2 Flexo				
No. 2 Bullet Special				
No. 2 Stereo Kodak	45.87.55		Martin and	
No. 3 F. P. Kodak				
No. 3 Six-Three Kodak	31/4×41/4	118	.35	.70
No. 3 Special Kodak	74/4			
No. 3 Bull's-Eye Kodak				Section 6
No. 3 Brownie Camera	31/4×41/4	124	.35	.70
No. 3 Folding Brownie	41 4 01 4			-0
No. 3 Cartridge Kodak	41/4x31/4	119	.35	.70
No. 3A F. P. Kodak	100			(10 Exp.)
No. 3A Special Kodak	31/4×51/2	122	.40	.70
No. 3A Folding Brownie	0741072	122	.10	.10
No. 3A Graflex Camera	1			
No. 3B Quick Focus Kodak				(10 Exp.)
No. 2 Stereo Brownie	31/4x51/2	125	.40	.70
No. 4 Bulls-Eye			(2 Exp.)	(4 Exp.)
No. 4 Bullet			Pan.	Pan.
No. 4 Bullet Special Model C	4 x5	103	.45	(10 Exp.)
No. 4 Bulls-Eye Special	4 x5	100	.40	.75
No. 4 Screen Focus Kodak	4 x5	123	.45	.90
No. 4 Folding Kodak				
No. 4 Cartridge Kodak	5 x4	104	.45	.90
No. 4A Folding Kodak	4½x6½	126	.65	
No. 4A Speed Kodak	167/16			
No. 5 Cartridge Kodak	7 x5	115	.80	

NOTE—Only cartridges grouped are interchangeable.

SPEED FILM.

Speed Film is furnished in 6, 10 and 12 exposure cartridges at the same price as regular film for the following groups-Nos. 116, 118, 121, 122, 126.

PREMO FILM PACKS.

12 Exposures Only.

13/4 x23/8,	No.	300 \$	0.25	3 x51/4,	No.	342 \$.75
21/4 x31/4,	No.	320	.40	31/4 x51/2,	No.	322	.80
21/2 x41/4,	No.	316.,.	.50	4 x5,	No.	323	.90
31/4 x 41/4,	No.	318	.70	5 x7,	No.	160	1.60
Premo	Spe	ed Film	Pac	ks furnis	shed	in 31/4 x	41/4,
31/4 x51/2,	4x5	and 5x7	size	s same	price	s as ab	ove.

AUTOGRAPHIC FILM.

No. 3A. Autographic Film Cartridge, 10 ex-	
posures, $3\frac{1}{4}x5\frac{1}{2}$ inches\$0.70	
Ditto, 6 exposures	
No. 3. Autographic Film Cartridge, 12 ex-	
posures, 3\\(^4\) x4\\(^4\) inches	
Ditto, 6 exposures	
No. 1A. Autographic Film Cartridge, 12 ex-	
posures, 2½x4¼ inches	
Ditto, 6 exposures	

FILM SUPPORT.

No.	1.	Very thin, per sq. ft\$	0.12
No.	2.	Thin (Kodak), per sq. ft	.12
No.	3.	Heavy, per sq. ft	.15
No.	4.	Heavy (non-inflammable), per sq. ft.	.18
No.	5.	Heavy (orange color), per sq. ft	.22

CIRKUT FILMS.

Only Eastman N. C. Film is supplied for the Cirkut Cameras. This film is furnished in Daylight-loading Cartridges.

PRICE.

	For	C	irk	ut Outfits No. 6 and No. 8.	
				Per	Roll.
61/2	inches	x	3	feet\$	0.80
614	inches	X	6	feet	1.60
614	inches	x	10	feet	2.60
9 72	inches	X	4	feet	1.30
6 1/2	inches			feet	2.60
G				Cameras No. 10 and No. 16.	
	101 0			Per	Roll.
6	inches	x	5		
	inches	X	10	feet	2.40
6 6 8 8	inches	X	15	feet	3.60
6	inches	X	20	feet	4.80
8	inches	X	10	feet	3.20
8		X	15	feet	4.80
0	menes	-	10	1000	2.00
	-			C N- 10 N- 10	
	For C	ir	kut	Cameras No. 10 and No. 16.	
	For C	ir	kut		Roll.
8				Per	
8	inches	x	20	Per feet\$	6.40
10	inches	x	20 4	feet\$	6.40 1.60
10 10	inches inches inches	x x x	20 4 6	Per feet	6.40 1.60 2.40
10 10 10	inches inches inches inches	x x x	20 4 6 10	Per feet \$ feet feet	6.40 1.60 2.40 4.00
10 10 10 10	inches inches inches inches inches	X X X X	20 4 6 10 15	feet Per feet\$ feet fe	6.40 1.60 2.40 4.00 6.00
10 10 10 10 10	inches inches inches inches inches inches	x x x x x	20 4 6 10 15 20	Per feet \$ feet feet	6.40 1.60 2.40 4.00 6.00 8.00
10 10 10 10 10 10	inches inches inches inches inches inches	X X X X X	20 4 6 10 15 20 6	Per feet\$ feet	6.40 1.60 2.40 4.00 6.00 8.00 2.90
10 10 10 10 10 12 12	inches inches inches inches inches inches inches	X X X X X X X	20 4 6 10 15 20 6 10	feet	6.40 1.60 2.40 4.00 6.00 8.00 2.90 4.80
10 10 10 10 10 12 12 12	inches inches inches inches inches inches inches inches	X X X X X X X X	20 4 6 10 15 20 6 10 15	Per feet \$ feet .	6.40 1.60 2.40 4.00 6.00 8.00 2.90 4.80 7.20
10 10 10 10 10 12 12 12 12	inches inches inches inches inches inches inches inches	X X X X X X X X X X X X X X X X X X X	20 4 6 10 15 20 6 10 15 6	feet	6.40 1.60 2.40 4.00 6.00 8.00 2.90 4.80 7.20 3.85
10 10 10 10 10 12 12 12 16 16	inches inches inches inches inches inches inches inches inches	X X X X X X X X X X X X X X X X X X X	20 4 6 10 15 20 6 10 15 6 10	Per feet\$ fe	6.40 1.60 2.40 4.00 6.00 8.00 2.90 4.80 7.20 3.85 6.40
10 10 10 10 10 12 12 12 12	inches inches inches inches inches inches inches inches	X X X X X X X X X X X X X X X X X X X	20 4 6 10 15 20 6 10 15 6	feet	6.40 1.60 2.40 4.00 6.00 8.00 2.90 4.80 7.20 3.85

IMPORTANT—Film for Cirkut Outfits No. 6 and 8 cannot be used in Cirkut Cameras, and film for Cirkut Cameras No. 10 and 16 can not be used in Cirkut Outfits or Attachments. In ordering specify "for Cirkut Outfit" or "for Cirkut Camera."

EASTMAN X-RAY FILMS FOR DENTAL WORK.

Dental photography is one of the latest discoveries and opens up a vast field for the progressive man. The Eastman X-Ray Film is prepared especially for this work and is all that could be desired. Packed in cartons of one and three dozen pairs.

PRICE

Package of 1 dozen pair	\$0.50
Package of 3 dozen pair	1.50

VELOX LANTERN SLIDE FILMS.

VELOX LANTERN SLIDE MATS.

For use with Velox Lantern Slide Films. The regular Glass Lantern Slide must be backed up by cover glass, matted and bound with lantern slide binding to make it complete. With the Velox Lantern Slide it is only necessary to use the Velox Lantern Slide Mats. They are supplied in the following openings:

					norizontal.	
	No.	2.	11/2 x 2 3/8	in.	vertical.	
	No.	3.	2 x2	in.		
	No.	4.	2 x21/4	in.	vertical.	
	No.	5.	21/2 in.	circ	ele.	
	No.	6.	1 % x 2 1/4	in.	horizontal.	
Price 1	per doz	en,	any size	3		\$0.20

PRICE LIST.

EASTMAN PORTRAIT FILMS.

Prices are per dozen films, including three (3) Eastman Safety Envelopes for storing film negatives.

VOS.	
5 x 7	\$1.10
61/2 x 81/2	1.65
8 x10	2.40
11 x14	6.00
EASTMAN PORTRAIT FILM	HOLDERS.
5 x 7	.\$1.50 each
6½ x 8½	. 1.75 each
8 x10	. 2.00 each
11 x14	. 6.00 each
These holders are in three styles	(Nos. 1, 2 and

3).
No. 1 fits Century Cameras and Century Studio Reversible Adapters.

No. 2 fits Universal, Empire State and Premo View Cameras.

No. 3 fits Eastman Home Portrait Camera (5x7 only).

EASTMAN FILM SHEATHS.

We also furnish aluminum sheaths for holding the film in professional curtain slide holders as follows:

41/4 X	61/2.	 	 	\$0.25 each
5x 7				OF oook
8x10		 	 	50 each

These sheaths will fit the 5x7 and 8x10 Century Curtain Slide Holders. They will not fit the Universal Curtain Slide Holders.

SPECIAL FILM SHEATHS FOR UNIVERSAL CURTAIN SLIDE HOLDERS.

	-	-	•	•	-	•	•	·	-	4	_		-	•		•	-	-	•	•		
8x10.																					.\$0.75	
11x14.		4						1								1		1	2		. 1.00	

These sheaths are constructed of wood and aluminum, and are for use in Century Universal Curtain Slide Studio Holders.

STERLING PORTRAIT FILM HOLDERS.

8x10 or 11x14 Sterling Holders. BANQUET CAMERA PORTRAIT FILM HOLDERS.

7x17	\$ 9.00
12x20	12.00
GRAPHIC PORTRAIT	FILM HOLDERS.
5 x 7	\$1.50
6½ x 8½	1.75
8 x10	
These holders fit the	Revolving Back Cycle
Graphic.	

Fits any 5x7 Graflex Camera.

5x7 Graflex Magazine Plate Holders will take Eastman Portrait Film by placing cardboard in septum back of the film.

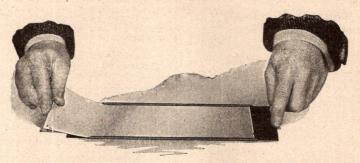
REVERSIBLE ADAPTER FOR CENTURY STUDIO CAMERAS.

11x14 Reversible Adapter for 8x10 Eastman Portrait Film Holder, including one holder 13.75 8x10 Reversible Adapter for 8x10 Eastman Portrait Film Holder, including one holder 13.25

8x10 Reversible Adapter for 5x7 Eastman
Portrait Film Holder, including one holder 12.00
Note.—When Reversible Adapters are required
for Studio Cameras other than Century, it is necessary for us to have back of camera in order that
the fitting may be properly done. For this work
an additional charge is made.

EASTMAN FILM SHEATHS.

For Use With the Studio Curtain Slide Holder.



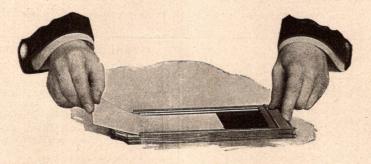
The Eastman Film Sheaths are made of aluminum and have a turned edge or rabbet at both sides and one end. The film is slid into the sheath in much the same way as in loading the film holders, (see Figure 2), the sheath being then placed in the studio holder in the same manner as a dry plate.

EASTMAN FILM SHEATHS.

THE PRICE.

5x 7, each	 \$0.25
8x10, each	 50

EASTMAN PORTRAIT FILM HOLDER.



The Eastman Portrait Film Holder is similar in appearance to the ordinary dry plate holder. It is provided with a hinged flap at the base which may be raised as soon as the slide is partly withdrawn. The film slides into the holder from this end, under a rabbet which extends the length of the holder, along each edge. As soon as the film is in position the flap is returned to place, the slide locking the holder as it is inserted.

EASTMAN PORTRAIT FILM HOLDERS. THE PRICE.

5 x 7,	each.																				 		2		\$	1.5	0	
6 1/4 X 8 1/2,	each.		 												 					35						17	5	
8 x10,	each.		 																									
11 x14,	each.	3.5	.1	9		 0.0	10	1	2	 100	1	400	14.11												6	60	10	

These Holders are in two styles, No. 1 and No. 2. No. 1 fits Century Cameras and Century Studio Reversible Backs. No. 2 fits Universal, Empire State and Premo View Cameras.

EASTMAN SAFETY ENVELOPES.

The non-inflammable Eastman Safety Envelopes, such as we are regularly supplying with Eastman Portrait Film, are occasionally called for, for the storage of dry plates, and we will hereafter supply them at the following prices:

EASTMAN SAFETY ENVELOPES. THE PRICE.

5x7, per 100.		 	 \$1.25
6½x 8½, per	100	 	 1.50
8 x10, per	100	 	 1.75
11 x14, per	. 100		2.50

Dry Plates

We carry a large stock of the following brands of dry plates and you can always count on getting fresh, reliable stock, and quick service. Special sizes, not listed, can be had on short notice.

SINGLE COATED.

Seed 30, Seed 26x, Seed 23, Hammer Special (red label), Standard Polychrome, Stanley Regular, Seed "L. Ortho," Seed Yellow Label Lantern Slide.

DOUBLE COATED.

Seed Non-Halation, Seed Non-Halation-Ortho, Standard Orthonon.

The list prices of all single coated plates are the same, but the net prices vary according to the varying discounts allowed on the different makes.

If you have not our discount sheet, please write for it.

STANLEY REGULAR, SEEDS 26x23, L. ORTHO, AND GILT EDGE 30,79% HAMMER RED LABEL.

STANDARD POLYCHROME.

		No. Doz.	Case
DIEC.	Per Doz.	in Case W	t. Lbs.
1 x 1½	\$0.25	30	
2 x 2	25	30	10
2 x 2½	25	30	15
21/2 x 21/2	30	30	15
2½x 4	35	30	30
3 x 3	35	30	25
31/4 x 31/4	40	30	30
31/1 x 31/2	40	30	30
31/2 x 31/2	40	30	30
31/4 x 41/4	45	30	35
4 x 4	60	30	35
41/4 x 41/4	60	30	40
31/4 x 51/2	65	30	45
4 x 5	65	30	50
41/4 x 51/2	75	30	60
31/4 x 61/2	75	30	55
3½x 6½	75	30	55
4¼ x 6½	90	30	70
4¾ x 6½	90	26	65
5 x 7	1.10	20	60
5 x 8	1.25	20	70 -
6½ x 8½	1.65	12	55
7 x10	2.10	10	60 :
8 x10	2.40	10	70
10 x12	4.20	3	. 45
11 x14	6.00	3	55
12 x15	7.50	3	65
14 x17 :	9.00	2	75
16 x20		11/2	. 75
17 x20	14.00	1½	80:
18 x22		1	65
20 x24	20.00	1	75
ALCOHOL STATE OF THE STATE OF T			

LANTERN SLIDE PLATES.

SEED'S NON-HALATION ORTHO, STANDARD ORTHONON.

Size. Per Doz. in Case	Wt. Lbs
Size. Fer Doz. In Case	W C. LUS
$3\frac{1}{2}$ x $3\frac{1}{2}$	30
3½ x 4½	35
3½ x 5½	45
4 x 5	50
4½ x 5½	60
4½ x 6½	70
43/4 x 61/2 1.20 26	65
5 x 7	60
5 x 8 1.55 20	70
6½ x 8½ 2.10 12	55
7 x10 2.65 10	60
8 x10 3 . 00 10	70
10 x12 5.15 3	45
11 x14 7.25 3	55
14 x17	75
16 x20 1	75
17 x20	80
18 x22	65
20 x24	75

FERROTYPE PLATES.

The bright, highly polished, glace effects on gelatine prints are obtained by placing the toned, fixed and well washed prints face down on a squeegee plate and allowing them to dry there.

The more perfectly the plates are enameled the higher will be the polish. Our squeegees have a high polish and will remain in good condition much longer than any others on the market.

PRICE.

openin .		6.6	Assert Toyo	1000	are to	Per
			, cole	Watn.	Each	Doz.
10x14.	Medium	(Case	contains	200).	. \$0.15	\$1.50
10x14.	Heavy (Case o	contains	100)	25	2.50
18x24.	Heavy	Case	contains	60)	75	7.75

Value consists of price and service.

159

RUBY AND ORANGE GLASS.

Our ruby and orange glass is imported stock, and great care is used in selecting only such quality as can be safely used for the non-actinic illumination of dark-rooms, lamps, etc. This glass is exceptionally free from flaws and air bubbles.

PRICE.

Size	Size
4 x5\$0.10	10x12\$0.35
5 x7 or 5x815	11x14
$6\frac{1}{2}$ x $8\frac{1}{2}$	14x17
8 x10	16x20 1.00

FLASHED OPAL GLASS

is used in Enlarging Cameras to thoroughly diffuse the light.

Size. 7x 7.			 			-								lach	
8x10.			 	 							100			.7	5
10x10.			 	 										9	0
10x12.			 	 					1					9	0
11x14.	7 7.		 	 										15	0
14x17.		11	 	 										2.2	5



GROUND GLASS SUBSTITUTE.

(Hance's)

Hance's Ground Glass Substitute, when flowed over plain glass, produces a surface in every way equal to the finest ground glass. The grain is extremely fine, and the result is a perfect matt surface. This solution is used by the leading professional photographers and photo-engravers throughout the entire country.

Price, 4-oz. bottle......\$0.50

EASTMAN'S GROUND GLASS SUBSTITUTE.

LANTERN SLIDE COVER GLASS

Our cover glass is of the finest quality and will meet the most exacting demands of the amateur or professional lantern-slide makers. It is uniform in size and thickness and is entirely free from "rust," so obnoxious to the slide maker and found in much of the glass sold for covering lantern slides.

PRICE.

Per	package of	one	dozen	 	 \$ 0.25
Per	gross, bulk.			 	 2.40
	full case (1				

THE DELTA ELECTRIC HAND LAMP.



One of the really great inventions of recent years! A full sized, portable electric lantern, using one ordinary dry battery. This remarkable Electric Hand Lamp is rapidly displacing lamps, lanterns, candles and flashlights in every walk of life. "Everybody needs it." Simple to operate; nothing to get out of order. Responds instantly to a slight push of thumb switch, throwing a rich, steady light that literally floods the darkness with sunshine.

The light burns continuously or intermittently, just as desired, without helding the switch. One battery furnishes continuous light for 30 to 40 hours. In ordinary use it will last many months. New batteries obtainable anywhere for 30 cents.

PRICE.

Complete with Battery \$1.50

Also Equipped with Ruby Lens Especially Designed for Use in Photographers' Dark Rooms \$2.00

Don't confuse the Delta with pocket flashlights. It's a full sized portable battery lamp, using a standard No. 6 battery, obtainable anywhere. Responds instantly to slight push on thumb switch, throwing a rich, ruby light, especially subdued for dark-room use. Batteries last four to six months in ordinary use and burn as high as 100 hours continuously.

SATIN GROUND GLASS.

The Satin Finish Ground Glass has an extremely fine grain, which especially adapts it for focusing screens and transparencies. Satin quality should not be confused with the ordinary grade.

PRICE.

Size	Size
4 x 5\$0.10	10x12\$0.38
	11x14
	14x14
8 x10	14x17 1.00
	16x20 1.25

Tubular Tungsten Flashlights



	5120 1½X0½.
No. 6784	Vulcanized Fibre Case, complete. \$1.50
	Renewal Radio Battery No. 102830
	Renewal Tungsten Bulb No. 52025
	Size 1½ x8½.
No 6786	Vulcanized Fibre Case, complete. \$1.75

Renewal Radio Battery No. 1027. Renewal Tungsten Bulb No. 521.



	Size 1½x6½.
No. 6798	Metal Case, Alligator covered,
	complete
No. 6799	Metal Case, Black Enamel Finish,
	complete
	Renewal Radio Battery No. 102830
	Renewal Radio Tungsten No. 54025
	Size 1½x8½.
No. 6794	Metal Case, Alligator covered.
	complete\$1.25
No. 6795	Metal Case, Black Enamel Finish,
	complete 1.20
	Renewal Radio Battery No. 102740
	Renewal Tungsten Bulb No. 54325

The Latest Novelty Revolver Flashlight

Exact Reproduction of an Automatic Revolver. The most novel electric flashlight, Japan or Nickel finish, complete. \$1.75 Renewal Radio Batterv No. 1040. \$0.30 Renewal Tungsten Bulbs No. 535. . \$0.30



No. 4755.

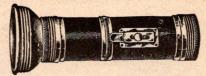
Radio Batteries



The "FRANCO FADIO" Pattery excels all others in BRILLIANCY, RECUPERATION, DURA-BILITY. We therefore give the most liberal guarantee. Each battery is packed in a sealed carton bearing this guarantee:

			Con- tinuous	Inter- mittent	
No.		Size	hours	hours	List
1027	3	Cell1%x7	12	24	.40
1028	2	Cell1%x434	10	20	.30
1040	2	Cell21/4 x11/4 x5	% 1½	3	.25
1041	3	Cell21/4 x2x5/8	2	4	.30

Miners Flashlights



Size 11/2 x 6 1/2.

No. 6788	Vulcanized Fibre Case, complete.\$2.10
	Renewal Radio Battery No. 102830
	Renewal Tungsten Bulb No. 54025
	Size 1½x8½.

Nickel Plated Vest Pocket Flashlights



No. 3425.

Size 2%x1½x¾.

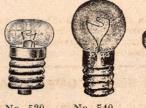
Flash and Permanent Contact, complete.\$1.00 Renewal Radio Battery No. 1040....\$0.25 Renewal Tungsten Bulb No. 535....\$0.25



No. 3429. Size 27%x2x34.

Flash and Permanent Contact, complete.\$1.25 Renewal Radio Battery No. 1041....\$0.30 Fenewal Tungsten Bulb No. 533....\$0.25

Tungsten Flashlight Bulbs



0.	520	No.	540	No. 53
	521		543	53

No.	535	(2.7	Volt)	opal	back	each.\$	0.25
No.	536	(3.8)	Volt)	opal	back	each.	.25
No.	540	(2.7	Volt)	clear.		each.	.25
No.	543	(3.8)	Volt)	clear.		each.	.25
No.	520	(2.7	Volt)	clear.		each.	.25
No.	521	(3.8	Volt.)	clear.	10167/	each.	.25

Our Batteries are strictly fresh stock, as we receive shipments direct from the factory every two weeks.

Photo Frames

FOR PHOTO BUTTONS, PRINTS, ETC. CELLULOIDS, CARDS AND BACKS COME WITH ALL FRAMES.



No. 0017. 30 Line.

Gold Plated.....per doz. \$0.50
Gold Filled.....per doz. 1.70
Aluminum....per doz. 60
10 Karat Gold with Gold
Filled Back....Each \$1.20



 No. 01.
 36 Line.

 Gold Plated.....per doz.
 \$0.60

 Go'd Filled....per doz.
 2.30

 Aluminum....per doz.
 .70



No. 01¼. 40 Line.

Gold Plated....per doz. \$0.60
Gold Filled...per doz. 2.80
Aluminum...per doz. 70

CHEAP NICKEL PLATED FRAMES.

The dozen prices will be charged on orders of less than 1/2 gross of one size.

No. 0017. 30 Line.	No. 01. 36 Line.	No. 011/4. 40 Line.	No. 010. 50 Line.
Per doz	Per doz \$0.40 Per gross 3.80		

LOW PRICED GOLD PLATED PHOTO FRAMES.

Any of these Patterns can be had in 36, 40 and 50 lines. DBe sure to state sizes wanted when ordering. The



No. 0900. Per dozen.\$1.00



No. 6904. Per dozen. \$1.00



No. 0906. Per dozen.\$1.00



No. 0907. Per dozen.\$1.00

Special Prices on Numbers 6900 to 6907 in one Gross Lots or More Quotéd on Application.



No. 0185. 22 Line.
Gold Plated.per doz.\$1.30
Extra Quality Gold
Filled..per doz. 2.40
Sterling Silver,
per doz. 2.40
10K Gold, with Gold
Filled Back.each 1.50



No. 052. 36 Line.
Gold Plated,per doz. \$1.30
Extra Quality Gold
Filled...per doz. 3.20
Sterling Silver,
per doz. 3,20
10K Gold, with Gold
Filled Back.each 2.40



No. 017½. 30 Line.
Gold Plated.per doz.\$1.30
Extra Quality Gold
Filled...per doz. 2.80
Sterling Silver,
per doz. 2.80
10K Gold, with Gold
Filled Back.each 1.80



No. 0186. 22 Line.
Gold Plated per doz.\$1.40
Extra Quality Gold
Filled. .per doz. 3.90
10K Gold, with Gold
Filled Back.each 2.00



No. 053. 50 Line.
Gold Plated.per doz.\$1.30
Extra Quality Gold
Filled. .per doz. 4.20
Sterling Silver,
per doz. 4.20
10K Gold. with Gold
Filled Back.each 3.20



No. 0176. 40 Line.
Gold Plated.per doz.\$1.30
Extra Quality Gold
Filled. . per doz. 3.50
Sterling Silver,
per doz. 3.50
10K Gold, with Gold
Filled Back.each 2.70



No. 054½. 30 Line. Gold Plated.per doz.\$1.40 Extra Quality Gold Filled...per doz. 4.30 Sterling Silver, per doz. 4.30

per doz. 4.30 10K Gold, with Gold Filled Back.each 2.40



No. 058. 36 Line.
Gold Plated.per doz.\$1.40
Extra Quality Gold
Filled...per doz. 4.90
Sterling Silver,
per doz. 4.90
10K Gold, with Gold
Filled Back.each 3.20

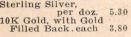
When ordering do not fail to state what qualities are wanted.

PHOTO FRAMES—For Photo Buttons, Prints, etc.—Continued.



No. 0177. 40 Line.

Gold Plated per doz.\$1.40
Extra Quality Gold
Filled. per doz. 5.30
Sterling Silver, per doz. 5.30
10K Gold, with Gold
Filled Back.each 3.80





No. 059. 50 Line.

Gold Plated.per doz. \$1.40 Extra Quality Gold Filled. ..per doz. 5.80 10K Gold, with Gold Filled Back.each 4.20



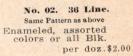
No. 0228. 36 Line.

Gold Plated, with Gold Filled Bezels.per doz. \$8.70



No. 021/4. 30 Line.

Enameled, assorted colors or all Blk. per doz. \$2.00





No. 0178. 40 Line.

Enameled, assorted colors or all Blk. per doz.\$2.00



No. 04. 50 Line.

Enameled, assorted colors or all Blk. per doz.\$2.00



No. 0274. 50 Line.

Gold Plated, with Gold Filled Bezels.per doz. \$10.20



No. 0259. Small.

	Per	Dozen
Gold Plated		\$1.50
Gold Filled		6.40
		Each
10K Gold, wit		
Filled Back		\$3.70



No. 0370. Small. Enameled, assorted colors or all Blk. per doz.\$2.00

No. 0257. Medium.

Per Dozen Gold Plated.....\$1.50 Gold Filled.....5.40 Each 10K Gold, with Gold Filled Back.....\$3.60



Enameled, assorted colors or all Blk. per doz.\$2.00



No. 0261. Large. Per Dozen Gold Plated.....\$1.50 Gold Filled.....7.40

No. 0327.



No. 0260. Medium.

	Per Dozen
Gold Plated.	\$1.50
Gold Filled.	6.80

10K Gold, with Gold Filled Back.....\$4.40



No. 0326. 10K Gold, with Gold Gold Filled, per doz. \$6.80 Filled Back.....\$2.90



No. 0256. Small.

Gold Plated\$1.50 Gold Filled 5.00 Each



No. 0181. 30 Line. Gold Filled, per doz.\$7.90



No. 0180. 22 Line. Gold Filled, per doz.\$7.20

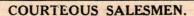


PHOTO FRAMES-For Photo Buttons, Prints, etc.-Continued.



No. 0168.

Gold Filled.....per dozen \$7.10



No. 0174. 30 Line. Gold Filled.....per dozen \$6.90 SCARF PINS FOR PHOTO PRINTS.





No. 0156. 22 Line. Gold Plated.per doz. \$1.50 Gold Filledper doz. 4.70



No. 0383. 36 Line. Sun Burst Frame. Gold Plated..., per doz.\$6.20 Same as above with Gold Filled Bezels...per doz.10.20



No. 0268 Gold Filled, First Quality, per dozen. \$1.90 Pin Gold Filled Rim and Plated

22 Line Round.



 No. 0274
 Gold Filled, First Quality, per dozen.\$1.90

 No. 0275
 Gold Filled Rim and Plated Pin.
 per dozen.
 1.20

 No. 0276
 Gold Plated.
 per dozen.
 60

 No. 0277
 Gold Gold, 10K.
 each.
 1.80

Oval.



Gold Plated...per dozen.\$1.00





No. 0913. 36 Line. Gold Plated....per doz.\$1.00 No. 0917. 36 Line.
Same Pattern as above.
Enameled.....per doz.\$1.50



22 Line Round.



No. 0278 Gold Filled, First Quality, per dozen. \$2.85
No. 0279 Gold Filled Rim and Plated
Pin. ...per dozen. 2.40
No. 0280 Gold Plated ...per dozen. 1.60
No. 0281 Solid Gold, 10K...each. 2.10

Oval.



No. 0272 Gold Filled, First Quality, per dozen.\$4.50
No. 0273 Gold Filled Rim and Plated Pin. per dozen. 4.00
No. 0273½ Solid Gold, 10K...each. 2.50

22 Line Round.





No. 0919. 40 Line. Gold Plated.\$0.80

For 2 Pictures Bull's Eye Glasses on both sides.



No. 0333.

Gold Filled....per doz.\$13.00 Gold Filled....per doz.\$14.00



No. 0332.

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