

HEADQUARTERS

FOR

PHOTOGRAPHIC OUTFITS

LENSES
AND
EVERYTHING USED
BY
PHOTOGRAPHERS

SWEET, WALLACH & CO.

EASTMAN KODAK CO.

133 N. Wabash Avenue, near Randolph Street
CHICAGO

NUMBER 38

Illustrated Catalogue
of
Photographic Outfits
and
Supplies



SWEET, WALLACH & CO.

EASTMAN KODAK CO.

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CHICAGO

USEFUL LENS TABLES

These Tables will be of Great Value to the Photographer when ordering Lenses, enabling him to order the proper Focal Length suitable for the size of operating room, which often saves time and trouble in exchanging Lenses.

We will gladly at any time answer all questions about Lenses.

We are in the Lens Business and carry the Largest Stock in the U. S. Every Lens we sell is guaranteed and, to responsible parties, sent on 10 days' trial.

TABLE FOR COMPUTING THE ANGLE OF VIEW

Divide the long side of the plate by		the equivalent focus of the lens.			
If the Quotient is	The Angle is	If the Quotient is	The Angle is	If the Quotient is	The Angle is
1.517	29 Deg.	1.768	42 Deg.	1.041	55 Deg.
1.536	30 "	1.788	43 "	1.063	56 "
1.555	31 "	1.808	44 "	1.085	57 "
1.573	32 "	1.828	45 "	1.108	58 "
1.592	33 "	1.849	46 "	1.132	59 "
1.611	34 "	1.87	47 "	1.155	60 "
1.631	35 "	1.89	48 "	1.178	61 "
1.65	36 "	1.911	49 "	1.2	62 "
1.67	37 "	1.933	50 "	1.225	63 "
1.689	38 "	1.954	51 "	1.25	64 "
1.708	39 "	1.975	52 "	1.274	65 "
1.728	40 "	1	53 "	1.3	66 "
1.748	41 "	1.02	54 "		

TABLE FOR DETERMINING THE DISTANCE BETWEEN LENS AND GROUND GLASS

Height of Image when Subject is 6 Feet High.												
Equivalent Focus of Lens, Inches	Distance in inches from lens to ground glass	3 in. High	4 in. High	5 in. High	6 in. High	8 in. High	10 in. High	12 in. High	16 in. High	20 in. High	24 in. High	30 in. High
4		4.1	4.2	4.3	4.33							
5		5.2	5.3	5.35	5.4	5.6						
6		6.2	6.3	6.4	6.5	6.6	6.8					
8		8.3	8.4	8.5	8.6	8.9	9.1	9.3				
10		10.4	10.5	10.7	10.8	11.1	11.4	11.6	12.2			
12		12.5	12.6	12.8	13.0	13.3	13.7	14.0	14.6	15.3		
16		16.6	16.9	17.1	17.3	17.8	18.2	18.6	19.5	20.4	21.3	22.6
20		20.8	21.1	21.4	21.6	22.3	22.8	23.3	24.4	25.5	26.6	28.3
24		25.0	25.3	25.6	26.0	26.6	27.3	28.0	29.3	30.6	32.0	34.0
30		31.2	31.6	32.1	32.5	33.3	34.2	35.0	36.6	38.3	40.0	42.5

TABLE FOR DETERMINING THE MINIMUM LENGTH OF STUDIO

Height of Image when Subject is 6 Feet High.												
Equivalent Focus of Lens, Inches	Distance in ft. and in. from subject to lens	3 in. High	4 in. High	5 in. High	6 in. High	8 in. High	10 in. High	12 in. High	16 in. High	20 in. High	24 in. High	30 in. High
4		8.4	6.4	5.2	4.4							
5		10.5	7.11	6.5	5.5	4.2						
6		12.6	9.1	7.8	6.6	5.0	4.1					
8		16.8	12.8	10.3	8.8	6.8	5.6	4.8				
10		20.10	15.10	12.10	10.10	8.4	6.10	5.10	4.7			
12		25.0	19.0	15.5	13.0	10.0	8.2	7.0	5.5	4.7		
16		33.4	25.4	20.6	17.4	13.4	10.11	9.4	7.4	6.2	5.4	4.6
20		41.8	31.8	25.8	21.8	16.8	13.8	11.8	9.2	7.8	6.8	5.8
24		50.0	38.0	30.10	26.0	20.0	16.5	14.0	11.0	9.2	8.0	6.10
30		62.6	47.6	38.6	32.6	25.0	20.6	17.6	13.9	11.6	10.0	8.6

NUMBER 38

Illustrated Catalogue

of

PHOTOGRAPHIC OUTFITS AND SUPPLIES

HEADQUARTERS for EVERYTHING
PERTAINING to PHOTOGRAPHY

Prompt Shipments

Fresh Goods

Lowest Prices



SWEET, WALLACH & CO.

EASTMAN KODAK CO.

133 North Wabash Avenue

Near Randolph Street

CHICAGO

HOW TO ORDER GOODS

In making up your orders please refer to this list and describe goods fully, giving name, number, size, color and quantity wanted.

Be careful to state size, speed and brand of Plates wanted. When you are not sure that your description is correct, mention number of page on which goods are listed.

We will supply you at any time with our regular order blanks on which to write your orders.

Be sure to sign your name in full, and give name of Town, County*and State. If you desire goods sent by Express, state name of Express Co. If you wish them sent by Freight, state name of Railroad Co. If by mail, state so on your order blank.

C. O. D. SHIPMENTS.

Time and money will be saved by sending remittance with order, as charges for returning money on C. O. D. Deliveries are seldom less than 25c, and often more.

Persons with whom we are not acquainted must remit at least one-quarter of the amount of bill in cash with the order to guarantee all Express or Freight charges. You will be credited on bill with full amount paid.

PARCEL POST AND MAIL SHIPMENTS.

We send goods by mail only at purchaser's risk, and all orders must be accompanied by cash in sufficient amount to cover amount of order and postage.

Compound Flash Powders, Gun Cotton, are not admitted to the mails, and must be sent by Express or Freight in separate box or package.

DELAYS IN DELIVERY.

You will do us a favor by reporting promptly any unusual delay in the delivery of goods. The efficiency of our force and our system of filling orders is so complete as to permit of no delays while the order is in our hands. Goods are shipped the same day the order is received, except in cases which require the printing or embossing of mounts. There is then a delay of just sufficient time to have the work done.

NO SUBSTITUTING

Our stock is complete, well assorted and is always kept up, so that the necessity for substituting is reduced to the minimum.

OUR TERMS

Terms Cash—Subject to a discount of 2 per cent on all items not quoted at a net price. This applies to C. O. D. orders. When an open account is desired send responsible references.

PRICES

All prices subject to fluctuations of the market and change without notice.

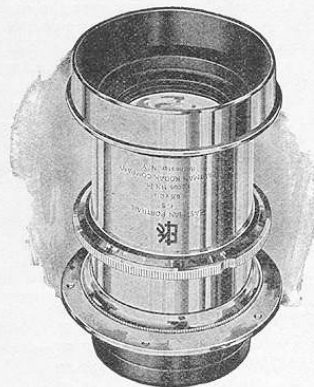
HOW TO SEND MONEY

Do not send Currency through the mails. Remit by Post Office Money Order, Express Money Order, or Bank Draft. Personal Checks not accepted unless accompanied by sufficient sum to cover the usual charge for exchange made on such collections. If postage stamps are sent for small sums, wrap them in wax paper to prevent sticking.

Do not mutilate this Catalogue. It is sent you as a guide by which to order your goods intelligently.

Eastman Portrait Lens

SERIES F.4



Every feature that a first-class portrait lens should possess will be found in the Eastman Series A.

The remarkable speed, F.4 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 with the subject close to the lens, excellent depth and equality of definition are readily obtained by the simple, adjusting diffusing back.

Equipped with iris diaphragm; with lacquered brass mountings.

The No. 2 will be found the most useful of the series for cabinets and general work up to 8x10.

THE PRICE.

	Diameter	Back Focus	Equiv. Focus	
No. 1, 5 x 8	3 1/2 inches	8 1/2 inches	12 inches	\$ 60 00
No. 2, 6 1/2 x 8 1/2	4 1/8 inches	11 1/2 inches	16 inches	80 00
No. 3, 8 x 10	4 1/2 inches	13 1/2 inches	19 inches	120 00

SERIES B F.5



A portrait lens of remarkable efficiency at an exceedingly low cost.

This series is 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, equipped with iris diaphragms, 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.

THE PRICE.

	Diameter	Equiv. Focus	Back Focus	
No. 1, 5 x 8	2 inches	9 inches	6 1/2 inches	\$32 00
No. 2, 6 1/2 x 8 1/2	2 1/2 inches	11 1/2 inches	8 1/2 inches	42 00
No. 3, 8 x 10	3 1/4 inches	15 inches	11 1/2 inches	57 00

Zeiss Kodak Anastigmat Lens

Speed F:6.3



considered, is the lowest that has ever been asked for an anastigmat lens.

Price List Zeiss Kodak Anastigmat Lenses
Covers at F:6.3

No.	Equiv. Focus	inches	Diameter	In barrels	In compound shutter
No. 0	Equiv. Focus 3	1 1/2 x 2 1/2	.....	\$20 00	.....
No. 1	Equiv. Focus 4 1/2	2 1/2 x 4 1/2	.....	21 50	.....
No. 2	Equiv. Focus 5	3 1/4 x 4 1/4	15-16	22 00	\$34 00
No. 3	Equiv. Focus 6 1/2	4 x 5	11-16	27 00	43 25
No. 4	Equiv. Focus 6 3/4	4 x 5	13-32	30 50	45 00
No. 5	Equiv. Focus 8 1/4	5 x 7	17-16	40 00	56 25
No. 6	Equiv. Focus 10	6 1/2 x 8 1/2	1 3/4	54 00	74 00

LENSES

BAUSCH & LOMB-ZEISS TESSAR F-6.3
Series 11 b F-6.3 Actual Size



Tessar, like all the other Zeiss series, possesses characteristics which guarantee it a unique position among photographic lenses of the highest quality and perfection. It claims the attention and admiration of the photographic public, both amateur and professional. Its merits are based upon results which years of experiment have now fully demonstrated.

Simplicity—Tessar is an unsymmetrical doublet of four very thin lenses made of a new type of Jena glass manufactured especially for this purpose. The front lens is uncemented, the two elements being divided by a very appreciable air space. The rear lens is cemented. The front and rear combinations are separated sufficiently to allow the Volute or Iris Diaphragm shutters to be properly fitted.

No.	Size of Plate Covered with Stop F:6.3* Inches	Equivalent Focus Inches	Diameter of Lens Inches	Lens and Barrel with Iris Diaphragm Price	Fitted with Aluminum Volute Shutter Price	Fitted with Aluminum Compound Shutter Price
3	2 1/2 x 3 1/2	4 1/2	1 1/2	\$ 32 50	\$ 49 50	\$ 44 50
4	3 1/4 x 4 1/4	5 1/2	1 3/4	34 50	51 50	49 00
5	4 x 5	6 1/2	1 7/8	36 00	53 00	52 25
5k	3 1/2 x 5 1/2	6 1/2	1 3/4	46 00	63 00	60 50
5a	5 x 7	7 1/2	1 1/2	50 50	69 00	66 75
6	5 x 8	8 1/2	1 3/4	61 50	80 00	81 50
7	6 1/2 x 8 1/2	10	1 7/8	83 00	101 50	103 00
8	8 x 10	12	2 1/4	122 50	142 50	144 50
9	10 x 12	14 1/2	2 3/4	158 50	178 50	.....
9a	11 x 14	16 1/2	2 3/4	193 00	.....	.....
10	14 x 17	19 1/2	3 1/2	252 00	.....	.....
11	16 x 20	23 1/2	3 1/2	324 00	.....	.....

*Larger Plates covered with smaller stops.
For matching lenses for stereoscopic work, add \$3.00 to the price of the lenses.

LENSES

BAUSCH & LOMB-ZEISS TESSAR F-4.5

Series I C



The new Tessar will also be found unsurpassed for instantaneous exposures, portraits, groups and landscapes.

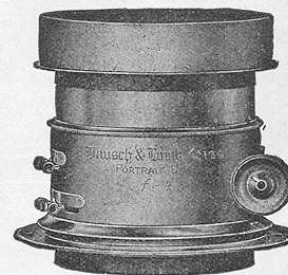
BAUSCH & LOMB-ZEISS TESSAR, SERIES I C F-4.5

No.	Plate	Focus	Diameter	Iris Diaphragm	Volute Shutter	Compound Shutter
† 1	3 1/4 x 1	2	1 1/2	\$ 28.80		
† 1a	1 1/4 x 1 1/4	3	1 1/2	36 00		
13	2 1/2 x 3 1/2	4 1/2	1 3/4	36 00	\$ 53 00	\$ 50 50
14	3 1/4 x 4 1/4	5	1 3/4	40 50	57 50	56 75
15	4 x 5	6	1 3/4	47 00	65 50	63 25
15a	5 x 7	7 1/2	1 3/4	57 50	76 00	77 50
16	5 x 8	8 1/2	1 3/4	72 00	92 00	92 00
17	6 1/2 x 8 1/2	9 1/2	2 1/4	115 50	135 50	137 50
18	8 x 10	11 1/2	2 3/4	162 00		
18a	10 x 12	14 1/2	3 1/4	210 00		
19	11 x 14	15 1/2	3 1/2	252 00		
20	14 x 17	19 1/2	4 1/2	360 00		

*Larger Plates are covered with smaller stops. †For use on Moving Picture Cameras.

B. & L. ZEISS PORTRAIT UNAR, SERIES I B F-4.5

This lens offers a distinct advance in the construction of portrait lenses. It combines all the high optical qualities of the anastigmat: large, flat field, freedom from spherical distortion and astigmatism, and absolute accuracy of definition, with that other quality which has been attributed only to the portrait lens, the ability to secure softness, roundness and gradation. This is made possible in the Portrait Unar, owing to its peculiar construction. The front lens is mounted in an adjustable mounting, so that the lenses may be separated, or brought closer together, thus giving any desired amount of diffusion of focus. The application of the Diffusing System in this lens removes every objection which the portrait photographer has ever had to the anastigmat, and retains all the desirable features of these unapproachable lenses.



Its great speed places it on favorable terms with the most popular of the portrait series. The Portrait Unar is recommended for every kind of studio work, and can be used in addition for any other kind of work for which a photographic lens of the focus and angular aperture which it possesses is suitable. It will be found on this account, the most economical as well as the best lens to buy.

Net Prices.

No.	Equivalent Focus.	Diameter of Lenses.	Distance Lens to Sitter, Head.*	Price.
7	10 Inches	25-16 Inches	9 1/2 Feet	\$110 00
8	12 "	2 3/4 "	7 "	150 00
9	14 1/4 "	3 5-16 "	9 "	200 00
10	18 "	4 1/4 "	14 "	276 00

*Head size is taken to be 1-inch for No. 7; 2 inches for Nos. 8 and 9.

Bausch & Lomb-Zeiss Convertible Protars



Series VIIa F-6.3

Photographers who have attempted all classes of subjects with one lens will recall their frequent disappointments in the results, while if they use for this work the several lenses ordinarily required they will find themselves burdened with a multiplicity of lenses, front boards, flanges, shutters, cases, caps, etc.

The problem of variety and convenience is satisfactorily solved by the acquisition of a Series VIIa which is composed of two Series VII single anastigmats and, as may be expected from the excellence of these components, the doublet formed by combining them is simply perfection in all the qualities which are desired in a photographic lens. Inasmuch as these component lenses may be used singly or in combination, it is evident that we have here a convertible lens which, as will be shown, is universal in its application.

If in forming our doublet we select two lenses of similar focal, we get a lens with a speed of f-6.3; if, however, we combine two of dissimilar focal, there results a doublet with a speed of f-7 or f-7.7, according to the relative focal employed. Thus we have in one and the same lens one or two long focus single lenses adapted for a variety of work and an extra rapid doublet adapted for all kinds of instantaneous work. Although a doublet composed of two lenses of similar focal gives us a larger relative aperture and hence greater speed than one composed of two dissimilar focal, the latter has the advantage of being convertible into three lenses of different focal while the former is convertible into two.

While the single lenses are adapted for instantaneous outdoor work when light conditions are favorable, for landscapes, portraits and groups, the doublet, if composed of two similar lenses, is an extra rapid lens working at a speed twice as great as the ordinary Rectilinear lens, hence is adapted for all kinds of instantaneous work, for groups, for architecture, and all subjects requiring medium angle, good covering power, depth of focus and brilliancy.

To illustrate the facility with which sets of Convertible Protars may be made up and the uses to which they may be put let us start with a Series VIIa doublet No. 8. This lens is listed to cover a 5x7 plate, has a focal length of 7 inches and a speed of f-7 which is almost twice as fast as the ordinary camera lens. It is composed of two perfectly corrected single anastigmats Nos. 3 and 4 of 11 3-16 inches and 13 3-4 inches focus respectively listed to cover 6 1-2 x 8 1-2 and 8x10 plates with an opening of f-12.5 which is sufficient for instantaneous work under normal light conditions. We have, in other words, three anastigmat lenses in one, two single anastigmats and a doublet. Now let us add to this equipment a No. 2 Series VII which covers a 5x7 plate and has a focal length of 8 3-4 inches. The addition of this lens forms the C set of Convertible Protars listed on page 7. We have now three single lenses which we may combine as follows: Our original doublet of 7 inch focus; we can form a doublet with a focal length of 13 3-4 inch with a resulting focal length of 8 1-2 inches covering a 6 1-2x8 1-2 plate and a speed of f-7; or we can form one of 16 1-8 inch and 11 3-16 inch having 7 1-2 inch focus, covering a 5x8 1-2 plate and having a speed of f-7.7. In other words we have three single anastigmats and three doublets. Referring to our list we find the cost of these lenses to be \$103.00 or an average of \$17.16 apiece. Is it possible to purchase any other perfect anastigmat at as low a cost?

But this is not all. The addition of another Series VII lens gives us four additional lenses, a single anastigmat and three doublets at the price of a single lens, \$52.50, that is the whole set of ten lenses, four single and six doublets will cost \$155.50 or \$15.55 each.

Do we desire a faster lens we need only match one of our single lenses to form a symmetrical doublet having a speed of f-6.3. The choice of lens will depend upon the class of work we would do.

This illustrates the enormous advantage of the Convertible Protars and places them where they deservedly stand in the very front rank.

To sum up the advantages of the Series VIIa lenses. They are perfectly corrected.

Every doublet is in reality three lenses, each perfectly adapted for a separate kind of work.

The addition of one system add three lenses, making three in all.

The addition of two systems add seven lenses, making ten in all.

The greatest possible compactness is secured.

The least weight.

The fewest parts to lose or wear out.

SERIES VIIa

No.	Size of Plate Covered with Full Aperture* Inches	Combination of Single Protars Focus Inches		Combined Equivalent Focus Inches	Speed	Lens Only	PRICE	
		Front Lens	Back Lens				Fitted with Aluminum Volute Shutter	Fitted with Aluminum Compound Shutter
1	3 1/4 x 3 1/4	7 1/2	7 1/2	4 1/2	F-6.3	\$ 48 50	\$ 65 50	\$ 63 00
2	3 1/4 x 4 1/4	8 1/2	7 1/2	4 1/2	F-7	52 50	69 50	67 00
3	4 x 5	11 3/16	7 1/2	5 1/2	F-7.7	57 50	74 50	72 00
4	4 x 5 1/2	8 3/4	8 3/4	5 1/2	F-6.3	56 50	73 00	70 50
5	4 1/2 x 6 1/2	11 3/16	8 3/4	6 1/2	F-7	61 50	78 50	76 00
6	4 1/2 x 6 1/2	13 3/4	8 3/4	6 1/2	F-7.7	68 50	87 00	84 75
7	4 1/2 x 7 1/4	11 3/16	11 3/16	6 1/2	F-6.3	66 50	83 50	82 75
8	5 x 7	13 3/4	11 3/16	7	F-7	73 50	92 00	89 75
9	5 x 8	13 3/4	13 3/4	7 1/2	F-6.3	80 50	99 00	96 75
10	5 x 8	13 3/4	13 3/4	8 1/2	F-7	93 00	111 50	113 00
11	6 1/4 x 8 1/2	16 1/8	13 3/4	9 1/2	F-7.7	114 50	134 50	134 50
12	6 1/4 x 8 1/2	18 3/4	13 3/4	9 1/2	F-6.3	105 00	129 00	129 00
13	6 1/4 x 9 1/2	18 3/4	16 1/8	9 1/2	F-7	127 00	147 00	147 00
14	7 x 9	23 1/4	16 1/8	10	F-7.7	148 50	168 50	170 50
15	7 x 9	18 3/4	18 3/4	10 1/2	F-6.3	147 50	167 50	167 50
16	8 x 10	23 1/4	18 3/4	11 3/4	F-7	169 00	189 00	191 00
17	8 x 10	23 1/4	23 1/4	12 1/4	F-7.7	199 50	219 50	221 50
18	8 x 10	23 1/4	23 1/4	13 1/4	F-6.3	186 00	206 00	208 00
19	10 x 12	27 1/4	23 1/4	14 3/4	F-7	217 00	237 00	237 00
20	10 x 12	27 1/4	27 1/4	15 1/4	F-6.3	243 00	263 00	263 00
22	10 x 12	33 1/4	27 1/4	18 3/4	F-7.7	340 50	360 50	360 50
23	11 x 14	33 1/4	33 1/4	20 1/4	F-6.3	444 50	464 50	464 50
30	12 x 16	39 1/4	39 1/4	23 1/4	F-6.3	585 00	605 00	605 00

Bausch & Lomb-Zeiss Convertible Protars in Sets

While a large number of doublet combinations are listed, having their uses for the same purposes as other doublet lenses, there are two sets of the Single Protars which practically cover the entire field. These sets are offered complete with the lenses mounted interchangeably, each set consisting of: One lens mount with Iris diaphragm, cap and flange, as described under Series VII; the Single Protar Lenses (three or four, as the case may be); and a neat and compact morocco case containing all the parts of the set.

D SET—BAUSCH & LOMB-ZEISS CONVERTIBLE PROTARS

Complete in case, \$197.50

Fitted with Aluminum Volute or Compound Shutter \$217.50

The lenses of this set are the numbers 3, 4, 5 and 6 of Series VII.

The following table shows the ten lenses which may be formed with this set, together with their angles, covering power, and speed.

Series	No.	Size of Plate Covered with Largest Stop* Inches	Equivalent Focus of Lenses in Inches			Largest Stop	Angle on 8 x 10 Plate Degrees
			Front Lens	Back Lens	Combined Focus		
VII	3	6 1/2 x 8 1/2	....	11 3-16	....	F-12.5	47
	4	8 x 10	....	13 3/4	....	F-12.5	39
	5	10 x 12	....	16	....	F-12.5	34
	6	11 x 14	....	18 3/4	....	F-12.5	29
	8	5 x 8	13 3/4	11 3-16	7 1/2	F-7.0	71
VIIa	9	5 x 8	16	11 3-16	7 1/2	F-7.7	67
	9a	5 x 8	18 3/4	11 3-16	8	F-7.7	64
	11	6 1/4 x 8 1/2	16	13 3/4	8 1/2	F-7.0	61
	12	6 1/4 x 8 1/2	18 3/4	13 3/4	9	F-7.7	57
	14	8 x 10	18 3/4	16	10	F-7.0	53

C SET—BAUSCH & LOMB-ZEISS CONVERTIBLE PROTARS

Complete in case, \$101.00

Fitted with Aluminum Volute Shutter

Fitted with Compound Shutter, \$117.25

The six lenses which may be formed with the C set or are shown in the accompanying table, together with their angles, covering power and speed.

Series	No.	Size of Plate Covered with Largest Stop* Inches	Equivalent Focus of Lenses in Inches			Largest Stop
			Front Lens	Back Lens	Combined Focus	
VII	2	5 x 8	....	....	....	F-12.5
	3	6 1/2 x 8 1/2	....	11 3-16	....	F-12.5
VIIa	4	8 x 10	....	13 3/4	....	F-12.5
	5	10 x 12	....	16	....	F-12.5
VIIa	6	5 x 7	13 3/4	8 1/2	6 1/2	F-7.0
	8	5 x 8	13 3/4	11 3-16	7	F-7.0

BAUSCH & LOMB-ZEISS PROTAR—Series VII F-12.5



This lens is a single Anastigmat composed of four elements cemented together and is mounted in a separate adapter of standard size which fits either end of the lens mount. So perfect are the spherical and anastigmatic corrections as to make the single lens almost equal to the doublet, and not only equal but actually superior to many doublet lenses of other makes for which strong claims to perfection are made.

The lens has a speed of f-12.5, which is ample for instantaneous exposures under favorable conditions. The field has an angle of 85 degrees of which from 35 degrees to 48 degrees are utilized on the plates for which each size is listed.

The lenses of this series are perfect single lenses and are the components used in forming the VIIa combinations and the Protar sets. In addition to forming the basis for the Series VIIa Convertible Anastigmats, the single Anastigmats have a distinct field of their own.

While not absolutely rectilinear they are unequalled, and may be used for a variety of purposes requiring long focus, medium speed and narrow angle, as for instance, landscape work, commercial work, large portraits and groups, and, under good light conditions, for architectural work also. They give excellent results in landscape work, where a long focus lens is required for perspective and where the plate used is small for the covering power of the lens. Since landscapes may be taken with the single Anastigmat from a considerable distance, we may look upon this lens as a sort of tele-photo, but while its magnification is less than the tele-photo its speed is far greater.

SERIES VII PRICE LIST

No.	Size of Plate Covered with Stop F-12.5* Inches	Equivalent Focus Inches	Back Focus Inches	Diam. of Lens Inches	Lens Only	PRICE	
						Fitted with Aluminum Volute Shutter	Fitted with Alum. Compound Shutter
1	4 1/4 x 6 1/2	7 1/2	8	3/4	\$ 27 00	\$ 44 00	\$ 41 50
2	5 x 7	8 1/2	9 1/4	1 1/8	30 50	47 50	45 00
3	6 1/2 x 8 1/2	11 1/8	12 1/4	1 1/8	36 00	53 00	50 50
4	8 x 10	13 1/8	15 1/4	1 1/2	43 50	62 00	59 75
5	10 x 12	16 1/4	17 1/4	1 3/4	56 99	74 50	76 00
6	11 x 14	18 3/8	20 1/4	2	77 50	97 50	97 50
7	12 x 16	23 1/4	25 1/4	2 1/4	99 00	119 00	121 00
8	13 x 16	27	30	2 1/2	129 50	149 50	.....
9	16 x 18	30 3/4	34	2 3/4	180 00	.....	.....
10	18 x 20	33 1/4	37 1/4	3 1/4	234 00	.....	.....
11	18 x 22	39 1/4	43 1/4	3 3/4	306 00	.....	.....

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

LENSES



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, giving sharp, well covered pictures, 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 smaller lens to the one listed is selected or a given lens 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 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.

No.	Size of Plate Covered with Stop F-12.5,*	Equivalent Focus, Inches.	Free Diameter of Largest Lens, Inches.	Price
1	3 1/4 x 4 1/4	2 7-16	1 1/2	\$17 50
2	4 x 5	3 1/2	1 3/4	\$21 00
3	4 1/4 x 6 1/4	4 11-16	1 7/8	\$24 50
4	5 x 8	6 1-16	2	\$28 00
5	6 x 10	7 11-16	2 1/8	\$32 50
6	8 x 12	10 1/4	2 3/4	\$47 00
7	10 x 15	15 3-16	3 1/2	\$71 50
8	12 x 20	23 13-16	4 1/2	\$125 50
9	20 x 24	35 11-16	6 1/2	\$232 50
10	24 x 30	48 3/4	8 1/4	\$361 00

*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.

No.	Size of Plate Covered with Stop F-18,*	Equivalent Focus, Inches.	Free Diameter of Largest Lens, Inches.	Price
1	4 1/4 x 6 1/4	3 1/2	2 1/4	\$23 00
2	5 x 7	4 1/2	2 3/4	\$23 00
3	6 1/2 x 8 1/2	5 9-16	3 1/4	\$29 00
4	8 x 10	7 3-16	4 1/4	\$36 00
5	10 x 12	8 1/2	5 1/4	\$45 00
6	11 x 14	10 7-16	6 1/4	\$56 00
7	12 x 15	12 5-16	7 1/4	\$66 50
8	14 x 18	15 1/4	8 1/4	\$88 50
9	16 x 20	18 1/2	10 1/4	\$125 50
10	20 x 25	24 1/2	13 1/4	\$255 50

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



BAUSCH & LOMB-ZEISS APOCHROMATIC PROCESS TESSAR.
SERIES VIII. PROCESS LENS.

No.	Speed	Equivalent Focus Inches	Diameter Lens Inches	Covers for Same Size Reproduction Inches	Covers for Reductions Inches	Price
0	F-10	13	1 1/2	11x14	7x9	\$108.00
1	F-10	18 1/2	2 1/4	14x17	8x10	144.00
2	F-10.3	25 1/2	2 3/4	20x24	12x15	234.00
3	F-10.3	33 1/2	3 1/4	28x32	16x20	342.00
4	F-12.5	46 1/2	3 3/4	32x36	24x30	540.00
5	F-15	70 1/2	4 1/4	48x60	32x36	1,260.00

BAUSCH & LOMB EXTRA RAPID UNIVERSAL
Series D f-6.

This is the most rapid of the Rectilinear type of lenses. Though far from equal to the Anastigmats, it is a good lens for general work and gives admirable service for rapid instantaneous work and portraiture in the gallery and home.

The speed is f-6 and the angle of view is 70 degrees. The mounting is very compact and the lenses, although of large diameter, are thin and do not appreciably increase the weight.

No.	Size of Plate Inches.	Diameter of Lens Inches	Equivalent Focus Inches.	Price	
				Lens Only	Fitted with Aluminum Volute Shutter.
0	3 1/4 x 4 1/4	1	4 3/4	\$ 24.00	\$41.00
00	4 x 5	1 1/4	6 3/8	28 00	45.00
1	5 x 8	1 1/2	9 1/2	36 00	54.50
2	6 1/2 x 8 1/2	1 3/4	11 1/4	46 00	64.50
3	8 x 10	2 1/4	14 1/4	58 00	78.00
4	10 x 12	2 3/4	17 1/2	75 00	95.00
5	12 x 15	3 5-16	22 1/2	100 00	125.00
6	16 x 20	3 3/4	28 1/2	130 00	165.00

COOKE PORTRAIT LENSES

SERIES II. FULL APERTURE F/4.5



These large Portrait Lenses of wide aperture are made essentially for artistic portraiture in dark studios. Stopped to F/5.6, they give results equal to those of the more compact series. The Cooke Portrait Lenses, series II, thus have the widest possible range of usefulness, and are unrivalled for those advanced Professionals with whom cost and size are of less consideration than ultra rapidity and unlimited scope.

These remarkable lenses form unquestionably the highest development of modern optics along the lines of portrait objectives. Coupled with phenomenal speed is a reserve capable of yielding everything from the softest and most subtle definition to perfect crispness of detail, and a depth of focus almost incredible.

The No. 22 1/2 Portrait Lens deserves the particular attention of home portrait photographers. Its focus is just short enough for those cramped situations so often encountered in the home, while its speed is so remarkable that this

lens will catch even the most fleeting expression of a child. The Nos. 23 to 24 lenses have been designed for exceptionally difficult portraiture in galleries without the advantage of an ordinarily large skylight and where the lighting is unusually poor. These three sizes are fitted with a diffusing device which enables the photographer to regulate to a nicety, the depth of focus and the softness and roundness of his image. Any desired degree of softness may be introduced evenly throughout the plate, simply by revolving the front portion of the lens-mount. The No. 23 1/2 lens of 14-inch focus naturally gives better perspective or "drawing" than does the No. 23 lens of 13-inch focus. This is simply because the No. 23 1/2 lens has a greater focal length than the No. 23.

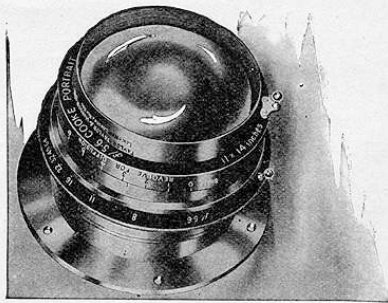
Telegraphic Code	No.	Dimensions in Inches			Distance from Lens to Sitter		Price
		Focus	Plates covered at full Aperture	Diameter of Flange Screw	Full Length ft.	Bust ft.	
Enrastro	22 1/2	10 1/2	6 1/2 x 8 1/2	2 1/4	15	6	\$120 00
Fechuvias	23	13	8 x 10	3 1/2	17 1/2	9	185 00
Enormeza	23 1/2	14 1/2	8 x 10	4	18 1/2	10	225 00
Enneacanto	24	16	10 x 12	4	22 1/2	11	275 00

COOKE LENSES

SERIES VI, F.5.6 for universal application.

Rapid for portraits in
studio or home.

Diffusing focus device.



COOKE PORTRAIT LENS. Series Six F.5.6

With Diffusing Device

The rapid advance in artistic photography has introduced a new series of portrait lenses whose range of usefulness covers entire field of high grade portraiture.

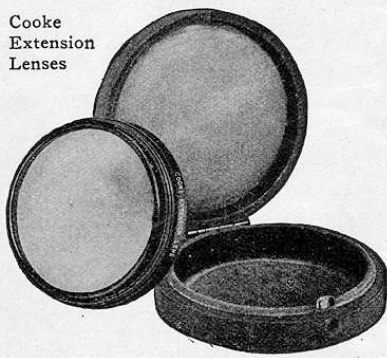
The series VI, lens, shown in the illustration, is supplied in a special mount with rotating rings which control the definition and work the iris diaphragm. The rings are operated from the back of the camera by means of cords and pulleys, or they may be rotated by hand at the front. The cords enable the photographer to watch his ground-glass and regulate to a nicety, the "depth of focus," the softness and roundness of his image, and the volume of light on the plate. The desired softness is indicated on the lens by a scale and pointer.

With its full aperture of F/5.6, the lens is extremely rapid. Containing only three thin glasses it is in practice distinctly faster than the more complicated lenses marked with the same aperture. It has greater "depth of focus" than the ordinary portrait lens, and so is just as well adapted for groups as for heads and busts.

The prices include the cords and pulleys, which are easily attached by anyone, and if specified a cone shaped, detachable hood. This may be used at pleasure to cut off side light, and add to the brilliancy of the image.

Dimensions in Inches.					Distance from Sitter to Lens				Price
No.	Focus	Plates Covered with full aperture	Plates covered at F/16	Diameter of flange screw	Cabinet		Panel		
					Full Length Feet	Bust Feet	Full Length Feet	Bust Feet	
35	13	8x10	11x14	3	17 1/2	9	12	6	\$135 00
36	16	10x12	12x15	3 1/2	22 1/2	11 1/2	14	7	191 00
37	18	11x14	16x18	4	25	13	16	8	221 00

Cooke
Extension
Lenses



Extensions are not supplied for the series IIIa lenses, but may be procured for the Series II, when ordered especially. Best results are obtained, however, with the sizes listed.

When ordering extensions for Cooke lenses already in use, it is necessary to quote the number engraved upon the lens mount. Extensions can then, as a rule, be furnished from stock without necessitating the return of the original lens.

COOKE EXTENSION LENSES

These form a convenient means of increasing the focal length so that the photographer may obtain larger images of distant objects without moving his camera.

It is occasionally pointed out to us that a series III. Cooke lens with extension costs rather more than do certain anastigmats whose "combinations" may be used separately. Our reply is the request that the complete anastigmat, formed by the Cooke Extension lens, be tested against any "separate combination" now on the market.

SERIES IV.				SERIES V.			
Focus of Normal Lens with Series IV. Extension F/5.6	Focus Lens F/8	Price		Focus of Normal Lens with Series V. Extension Lens F/16	Price		
5	7.5	\$10 50	7 1/2	12	\$ 9 50		
6	9.5	10 50	9	13.9	11 50		
8	12.3	13 50	11	17	16 50		
9 1/2	14	20 00	13	20.2	21 50		
11	16.7	27 00	16	25	32 50		
13	19.5	32 50	18	28	40 50		

Cooke Lenses

Cooke Anastigmat

Ser. II Aperture F.4.5.



These ultra rapid Anastigmats are designed for subjects demanding extreme speed for use in such as Graflex Speed Kodaks, Hand Cameras and Focalplain shutter work. For general outdoor work on account of their extreme speed and good covering power and they are excellent for portraiture in poorly lighted Studios. They are universally used for Home Portraiture, copying, enlarging, and as a general purpose lens they are unexcelled. These Cooke Anastigmats can be fitted to most shutters now on the market. When ordering with shutters specify make and for price add the list price of shutter to list price of lens. No extra price for fitting.

DIMENSIONS IN INCHES				Net Price with Iris Diaphragm
No.	Focus from Back Glass	Plates Covered with Full Aperture	Diameter of Flange Screw	
20 1/2	5	3 1/4 x 4 1/4	1 1/2	\$41 50
20 B	5 1/2	3 1/4 x 4 1/4	1 1/2	45 50
21	6 1/2	4x5 or 3 1/2 x 5 1/2	1 1/2	47 00
21 1/2	7	5 x 7	1 3/4	57 50
22	8	5 1/2 x 7 1/2	2	66 00
22 1/2	10 1/2	6 1/2 x 8 1/2	2 1/2	120 00

Cooke Process Lenses



The illustrations in the leading magazines throughout the world are now made with Cooke Process Lenses. The reason is that for such work they give uniformly well defined images, free from distortion, from fog, and other common defects of lenses; while for three-color work they have the unique property of being adjustable so that in our final tests we secure color images of equal size.

The lens-hood which receives the cap is removable, and a screw-thread receives interchangeably any prism or mirror suitably mounted and always in the correct position. An iris diaphragm is provided, and in front of it is a slot to receive process diaphragms if necessary. This slot may be closed or opened at pleasure, merely by revolving the inscription-tube.

Dimensions in Inches.					Price
No.	Focus Inches	Plates Covered with Full Aperture Inches	Plates Covered at F/16 Inches	Aperture Inches	
14p	9	5 x 8	10 x 12	F/8	\$48 00
15p	11	6 1/2 x 8 1/2	12 x 15	F/8	67 50
16p	13	8 x 10	14 x 17	F/8	87 00
17p	16	10 x 12	18 x 20	F/8	130 00
18p	18	12 x 15	20 x 24	F/8	160 50
19p	25	16 x 20	24 x 27	F/16	227 00
19ap	30	20 x 24	F/16	4	323 00
19bp	36	24 x 30	F/16	4	387 00
19cp	42	30 x 36	F/16		560 00
19dp	48	30 x 40	F/16		732 00

Series IV. Full Aperture F/5.6

The Series IV lenses are designed for high-speed photography with focal-plane shutters; for the portraiture of groups; and for difficult photographs in exceptionally poor light. The definition is perfect throughout the sizes of PLATE SPECIFIED, even with the full aperture of F.5.6. In that respect the lenses equal those of the series III and V, but they cannot be used with such good effect upon plates larger than those for which they are listed.

The advantages of a simple construction are fully developed in this series, and result in objectives of greater rapidity and defining power, with a more uniform excellence than has hitherto been possible in lenses having such large apertures.

DIMENSIONS IN INCHES					PRICE	
No.	Focus	Plates Covered with Full Aperture	Plates Covered at F/16	Diameter of Flange Screw	Lens Only	With Volute Shutter
25	5	3 1/4 x 4 1/4	4 x 5	1 1/2	\$38 00	\$55 00
26	6	5 x 7	5 x 7	1 1/2	43 00	60 00
27	8	5 x 7 1/2	6 1/2 x 8 1/2	1 3/4	80 00	72 50
27 1/2 (new)	9 1/2	6 1/2 x 8 1/2	8 x 10		80 00	95 50
28 (new)	11	7 x 9	10 x 12	2 1/2	110 00	130 00
29	13	8 x 10	11 x 14	3	130 00	150 00
30 (new)	16	10 x 12	12 x 15	3 1/2	182 50	.....
31 (new)	18	11 x 14	16 x 18	4	208 00	.....

Series V. Full Aperture F/8

The Series V lenses are similar to the Series III except for their smaller apertures and more compact mountings. Optically, the two series are identical and give equal results at equal apertures.

Especially suitable are the series V lenses for copying, enlarging, machine photography, and for everything demanding microscopic definition under average conditions of lighting. Our success with Government departments and astronomical observatories has been largely with lenses of this series.

Dimensions in Inches.				Prices	
No.	Focus Equivalent	With full apertures to cover plates	At F/16 to cover plates	With Iris Diaphragm Standard Flange	
13	7 1/2	5 x 7	8 x 10	\$ 39 50	
14	9	5 x 8	10 x 12	48 00	
15	11	6 1/2 x 8 1/2	12 x 15	67 50	
16	13	8 x 10	14 x 17	87 00	
17	16	10 x 12	18 x 20	130 00	
18	18	12 x 15	20 x 24	160 50	
19	25	16 x 18	24 x 27	260 00	
19a	30	20 x 24 proportionately larger		460 00	
19b	36	24 x 27		650 00	
19c	42	30 x 36		1,100 00	

LENSES

THE EASTMAN-ZEISS PORTRAIT LENS



The Eastman-Zeiss Portrait Lens is everything in quality the names Eastman and Zeiss imply.

It is especially well adapted to home portraiture, its working aperture *f*-6.3 affording ample speed, and at the same time sufficient depth, making it a thoroughly satisfactory lens for outside work.

This lens is the one regularly supplied with the Eastman Home Portrait Outfit.

Price

Eastman-Zeiss Portrait Lens, *f*-6.3, No. 6, 10 inch focus..... \$54.00

COOKE-TELAR



secure an image the same size as with a normal lens used close at hand. At twice the distance his image is the same size as with the other lens. At the same distance, it is twice the size. It is invaluable for pictures of birds and animals which would be frightened at close range, while for views of aeroplanes, balloons, athletic events, mountain scenery, and for all distant subjects moving either fast or slow, the Cooke-Telar is simply indispensable.

The possibility of using a lens of, say 22-inch focus on a camera having an extension of 11½ inches only, is, perhaps, the most remarkable development of modern science as applied to the construction of Photographic Apparatus

Cooke-Telars may be fitted to between-lens shutters of almost any make, but for the photography of rapidly moving subjects, a focal plane shutter is essential. Cooke-Telars are very light and compact. For example, the No. 1 size measures only 1½ inches, and the No. 2½ size only three inches from the extreme back and front portions of the mount.

Prices

Lens No.	Camera Extension from front of bellows at infinity	Focus	Aperture	For Negatives	For Cameras	In Ordinary Iris Mount, Cases Extra
1	4½"	8"	F/7	2½x4¼	No. 1a Graflex; No. 1a Speed Kodak	\$22.50
2	6"	10¾"	F/7	3¼x4¼	3¼x4¼ Auto Graflex	30.00
2½	8"	13½"	F/7.5	4x5	No. 3a; 4x5 Auto*	42.00
2½K	6¾"	10¾"	F/9	3¼x5½	4x5 R. B. Auto	35.00
3	9"	13"	F/7.7	5x7	No. 3a Kodak with Plates	49.00
4	11½"	20"	F/7.7	6½x8½	4x5 R. B. Auto; 5x7 Auto; 5x7 Press	95.00

The new Cooke-Telar is a compact high-speed anastigmat of long focus requiring only a short bellows extension. Complete in itself, it gives magnified images of far distant objects, but without the drawbacks of shaky camera extensions and telescopic attachments.

The Cooke-Telar, with an aperture of *F*/7, works nearly three times faster than do the single elements of other anastigmats. It requires the same bellows extension as an ordinary lens, yet its image is approximately twice as large.

It is used with ordinary cameras both for time and instantaneous exposures of scenes which any other lens would render too small. The Press photographer who wishes, unobserved, to obtain with his Graflex, photographs of celebrities, can stand far away, and with the same bellows extensions,

Portrait Lenses

DALLMEYER'S PATENT PORTRAIT LENSES

These are manufactured in three degrees of intensity or rapidity of action:

1st. Portrait Lenses, Intensity *F*. 3: designated B.

2d. Portrait Lenses, Intensity *F*. 4: designated A.

3d. Portrait, Group and View Lenses, Intensity *F*. 6: designated D.

The denominators of the fractions expressing intensity of the Lenses above mentioned, viz., 3, 4, 6, when squared, at once express the relative time of exposures for each Lens. Thus the B series require about one-half the exposure of A and one-fourth of D.

DESCRIPTION.—These Lenses are constructed on a different principle to the old or Petzval type of Portrait Lenses, and excel them in sharpness of definition, in freedom from distortion and flare, and in equality of illumination; while, in addition to this, they afford the means, by the simple turn of a screw, of obtaining greater equality or depth of definition.

The construction of the Lens is such that, with the posterior cells of the back combination screwed home, it produces the sharpest possible picture of objects situated in one plane. Then, by unscrewing the posterior cell, a turn, or parts of a turn, the previous intensely sharp definition becomes modified, i. e., the contrast of excessive sharpness in one plane, compared with great want of sharpness in other planes, is balanced, producing the impression of a general distribution or depth of focus; and this in proportion to the amount of unscrewing. Nothing has been sacrificed in securing this new power, and can be used or not at the will of the operator, who will rapidly become proficient in judging what is necessary to produce any desired effect.

Series A, Speed *F*. 4

These require nearly double the exposure of the B lenses.

	Waterhouse Diaphragm	Iris Diaphragm
No. 1 A* PATENT LENS, with rack and pinion movement. Diameter of front and back combination, 2¼ and 2½ in., respectively. Equivalent focus, 10 in. for pictures 4x5 in.....	\$100 00	\$110 00
No. 2 A* PATENT LENS, with rack and pinion movement. Diameter of front and back combinations, 3¼ and 3½ in., respectively. Equivalent focus, 13½ in. for pictures 5x7.....	136 00	148 00
No. 3 A* PATENT LENS. Diameter of Lenses, 4 in. Equivalent focus, 16 in. for pictures 6½x8½. Promenades and Cabinets.....	208 00	220 00
No. 4 A PATENT LENS. Diameter of Lenses, 4½ in. Equivalent focus, 18 in. for pictures 8x10 in. and under.....	292 00	308 00
No. 5 A In Rigid Mount. Diameter of Lenses, 5 in. Equivalent focus, 22 in. for pictures 12x15 in. and under.....	380 00	396 00
No. 6 A In Rigid Mount. Diameter of Lenses, 6 in. Equivalent focus, 30 in. for pictures 16x20 in. and under.....	456 00	476 00

DALLMEYER'S PATENT PORTRAIT LENSES Series B, Speed *F*. 3.5

No. 1 B PATENT LENS, with rack and pinion movement. Diameter of lenses, 2 in. Equivalent focus, 6 in. For CARTE DE VISITE PORTRAITS. Distance between subjects and lens for standing figure, 12 to 13 ft.....	\$ 56 00	\$ 62 00
No. 2 B PATENT LENS, with rack and pinion movement. Diameter of Lenses, 2½ in. Equivalent focus, 8¼ in. Especially constructed for CARTE DE VISITE PORTRAITS, though it may be used with perfect satisfaction for Cabinets also. Distance between subject and lens for a standing figure (Carte de Visite), 18 ft.....	102 00	112 00
No. 3 B PATENT LENS. Diameter of Lenses, 3½ in. Equivalent focus, 11½ in. Especially constructed for CABINET PORTRAITS. Distance between subject and lens for a standing figure, 18 ft.; for Carte de Visite, 25 ft.....	152 00	164 00
No. 4 B PATENT LENS. Diameter of Lenses, 4½ in. Equivalent focus, 17 in. for pictures 8x10 and under. Distance for a Cabinet standing figure, 25 ft.....	304 00	324 00

DALLMEYER'S PATENT PORTRAIT AND GROUP LENSES

Series D, Speed *F*. 6

These require about twice the exposure of the A, and nearly four times that of the B series. They are more especially designed for groups, large heads, and full figure work in the studio. For outdoor subjects, these lenses are generally useful, whether for groups, instantaneous effects, architecture or landscapes; for, in common with all our Patent Portrait Lenses, they are free from a central "flare spot," even when used with the smallest diaphragms; and they are entirely free from distortion.

With the exception of Nos. 2 D and 3 D, these Lenses are mounted in rigid setting, i. e., without rack and pinion movement.

No.	Diameter of Lenses.	Equiv. Focus.	Size of Portrait or Group.	Size of Waterhouse View. Diaphragm.	Iris Diaphragm.
No. 2 D*	1½ in.	9 in.	5 x 7	5x8 in.	\$ 54 00
No. 3 D*	2¼ in.	12½ in.	6½x8½	8x10 in.	72 00
No. 4 D	2½ in.	17 in.	8 x 10	10x12 in.	104 00
No. 5 D	3½ in.	19 in.	10 x 12	12x15 in.	133 00
No. 6 D	4 in.	24 in.	12 x 15	16x18 in.	202 00
No. 7 D	5 in.	30½ in.	16 x 18	20x22 in.	366 00
No. 8 D	6 in.	37 in.	20 x 22	21x25 in.	444 00

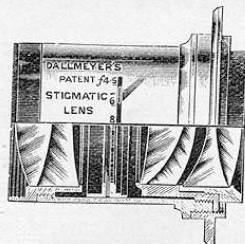
* Distance for a full-length Cabinet with No. 2 D, 14 feet (not recommended where a longer focus lens can be used); with No. 3 D, 18 feet; No. 4 D, 25 feet.



Lenses

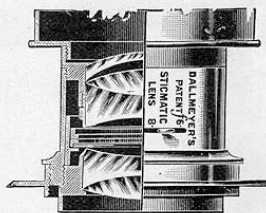
DALLMEYER STIGMATIC PORTRAIT LENS SERIES I, SPEED F-4

Distance between subject and lens for full length cabinet; No. 3, 12 to 13 feet; No. 4, 17 feet. Head and bust pictures, about half these. Full description furnished if desired.



DALLMEYER STIGMATIC PORTRAIT LENS SERIES II, SPEED F-6

It is intended to be a lens suitable for every class of photography, from portrait to wide-angle work, and is the quickest stigmatic lens made, except the Dallmeyer Stigmatic Portrait Lenses, Series I, which work in F-4.



No.	Size of Plate covered at full aperture	Diameter of Lens	Equivalent Focus	Price, with Rack and Pinion Movement, Iris Diaphragm.
1	inches 3 1/4 x 4 1/4	inches 1.6	6	\$ 54 00
2	4 x 5	2.0	9	91 00
3	5 x 7	2.4	9	137 00
4	6 1/2 x 8 1/2	3.2	12	188 00

DALLMEYER STIGMATIC PORTRAIT LENS,

SERIES III, SPEED F-7.5

This series, while of simpler construction than the series II, possesses similar properties, but the single combinations are not intended to be used independently. They are admirably adapted for all kinds of work where high optical excellence is required, as well as photo-engraving, copying groups, etc. The smaller sizes are particularly suitable for hand camera work.

No.	Equivalent focal length	Plate covered at full aperture F.7.5	Plate covered at F.16	Dia. of lens	Price with Iris Diap.	Suitable Telephoto Attachment
1AA	3	2 x 2 1/2	3 1/4 x 4 1/4	.575	\$25 00	.....
1A	4	2 1/2 x 3 1/2	4 x 5	.6	27 00	.....
1	5	3 1/4 x 4 1/4	5 x 7	.75	28 00	\$26 50
2	6	4 x 5	5 x 8	.9	34 00	26 50
3	8 1/2	5 x 7	6 1/2 x 8 1/2	1.2	41 00	32 00
4	9 1/2	6 x 8	8 x 10	1.4	48 00	37 00
5	11	6 1/2 x 8 1/2	10 x 12	1.6	60 00	37 00
6 (f/8)	13	8 x 10	12 x 15	1.85	74 50	43 00
7 (f/8)	15 1/2	10 x 12	16 x 18	2.15	99 50	60 00

DALLMEYER PAT. RAPID RECTILINEAR LENS

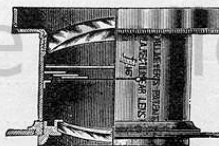
The Rapid Rectilinear Lens is for all kinds of outdoor photography. It works at a speed of F-8, and, although not so rapid as the D Lens, requiring nearly double the exposure, is superior to it for views because of its having only four instead of six reflecting surfaces. It is composed of two exactly symmetrical cemented combinations, is applanatic—i. e., it works with the full opening—hence is superior for all kinds of quick outdoor pictures, groups, instantaneous effects, landscapes, architectural subjects, or for dimly lighted interiors. For copying and enlarging this lens is unrivaled. It will be found unsurpassed for producing the finest result for every variety of photo-mechanical work. With smaller stops, each lens covers the next larger, or even two sizes larger plates than those recorded, thus embracing angles of pictures from 60 to 80 degrees, and this without any trace of flare or central spot.

Either combination can be used singly as an ordinary landscape lens; focus, about twice that of the compound lens. Each lens is supplied with a set of Waterhouse diaphragms.

No.	Plate covered at full aperture	Diameter of lens	Equivalent Focal length	Price with Iris Diaphragm	Suitable Telephoto attachment
2	4 x 5	1 1/2	6	\$ 30 00	\$26 50
3	5 x 7	1 3/4	8 1/2	37 50	32 00
4	5 x 8	1 3/4	10	42 00	37 00
5	6 1/2 x 8 1/2	1 3/4	11	47 00	43 00
6	8 x 10	1 3/4	13	60 00	50 00
7	10 x 12	2	16	75 00	60 00
8	11 x 14	2 1/4	17	82 00	78 00
9	12 x 15	2 1/4	19 1/2	100 00	99 50
10	16 x 18	3	24	135 00	.....
11	20 x 22	3 1/2	30	183 00	.....
12	21 x 25	4	33	224 00	.....

DALLMEYER PATENT WIDE ANGLE RECTILINEAR LENS

These lenses embrace angles of pictures from 90° to 100°



No.	Largest dimensions of plate	Dia. of front combination	Back focus	Equivalent focal length	Price, Iris diaphragm
1S	inches 4 x 5	inches 1 1/2	inches 2 1/4	inches 3	\$ 29 00
1AA	5 x 7	1 3/4	3 1/4	4	33 00
1A	6 1/2 x 8 1/2	1 3/4	4 1/4	5 1/2	40 00
1B	8 x 10	1 3/4	5 1/4	6 1/2	46 00
1	10 x 12	1 3/4	6 1/2	7 1/2	55 00
2	12 x 15	2	7 1/2	8 1/2	75 00
3	16 x 18	2 1/4	11	13	99 50
4	20 x 22	3	14	15 1/2	142 00
5	21 x 24	3 1/4	17	19	211 50

LENSES

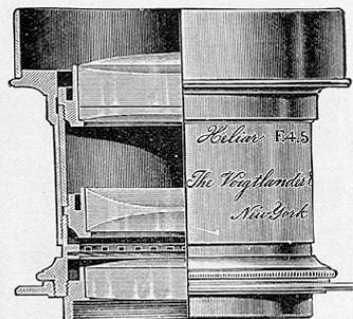
HELIAR ANASTIGMAT F-4.5

An Ultra Rapid Anastigmat. Aperture in all Sizes, F-4.5.

The Heliar Lens is the latest production of the works of Messrs. Voigtlaender & Son. It is a carefully corrected anastigmat lens that combines the speed of the old style portrait lens with the sharpness of definition, flatness of field and compact construction of the modern anastigmat.

The aperture is F-4.5 and this aperture applies to all, even the largest sizes.

The Heliar has a flat field in which there is no falling off from the center to the margin. In all parts of the image the definition is exceedingly fine, and all details are brought out with great sharpness. Heliar Lenses are chromatic, rectilinear and anastigmatic. Striking, too, is the brilliancy of the image, due to the elimination of the optical error known as "coma."



Heliar Lenses are excellent portrait lenses, because of their speed, covering power and brilliancy. In short studios they are exceptionally valuable.

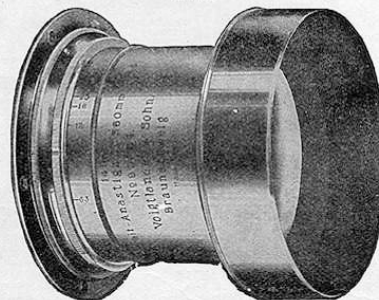
Heliar Lenses are also the best for high speed instantaneous work with focal plane shutter and in combination with the Graflex and Reflex Cameras.

Price List

No.	Equivalent Focus Inches	Working Aperture of Lens Inches	Size of Paper Covered at F 4.5 Inches	Price
00	2	3/4	1 1/4 x 2	\$ 30 00
0	3/4	3/4	2 x 2	35 00
1	4/4	1 1/4	2 1/2 x 3 1/2	39 00
2	6 1/4	1 1/4	3 1/4 x 4 1/4	48 00
3	7	1 1/4	4 x 5	57 00
3A	8 1/4	1 1/4	4 1/4 x 6 1/4	77 00
4	9 1/4	2 1/4	5 x 7	99 00
5	11 1/4	2 1/4	6 1/2 x 8 1/2	129 00
6	14	3 1/4	7 x 9 1/2	168 00
7	16 1/4	3 1/4	8 1/2 x 10 1/2	219 00
8	19	4 1/4	10 x 12	264 00
9	24	5 1/4	11 x 14	400 00

VOIGTLAENDER PORTRAIT ANASTIGMAT

F-4.5



not cemented together and are therefore especially recommended for use in tropical climates and for projection work, as they are able to withstand the high temperatures when working with Arc Lamps.

The great speed of this lens F 4.5 makes it a most desirable portrait lens for figures and groups; it is also strongly recommended for high speed photography and for use with Focal Plane Shutters.

Price List

No.	Equivalent Focus Inches	Working Aperture of Lens Inches	Size of Plate Covered at F 4.5 Inches	Price
1	3 1/4	3/4	2 x 2	\$ 32 00
2	4 1/4	1 1/4	2 1/4 x 3 1/4	35 00
3	6 1/4	1 1/4	3 1/2 x 4 1/4	46 00
4	7	1 1/4	4 x 5	52 00
5	9 1/2	2 1/4	5 x 7	85 00
6	11 1/2	2 1/4	6 1/2 x 8 1/2	120 00
7	14 1/2	3 1/4	7 x 9 1/2	155 00
8	16 1/2	3 1/4	8 1/2 x 10 1/2	200 00
9	19	4 1/4	10 x 12	250 00

The Portrait Anastigmat is an unsymmetrical objective consisting of three single elementary glasses, with air space separation between each. While they are of simple construction, they are perfectly corrected and have the advantage of rigidity and lightness. The Portrait Anastigmat differs from other objectives because the lenses are

The No. 4 lens can be furnished with a special mount with rack and pinion for enlarging and projecting purposes.

Price \$60 00

The cost of matching two lenses for stereo work is \$2.50.

Lenses

VOIGTLAENDER'S COLLINEAR LENS SERIES
II. SPEED F-5.6

The Collinear Lenses are a new type of Doppel-Anastigmats, consisting of two of these halves made up of three glasses, the continuous surfaces of which are permanently cemented together. There is plenty of room for the insertion of "between the lens" shutters.

Iris Diaphragms are fitted to all Collinears.

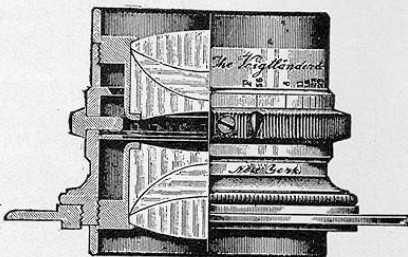
With intermediate stops the Collinear lenses cover a large angle and are therefore used as "Rapid Wide Angle" lenses with the greatest success.

In all Collinears the rear lens can be used alone as a landscape lens of double the focus.

The small sizes are valuable lenses for hand camera work. With absolute sharpness, depth of focus and brilliant uniform illumination. For athletic work, animals in motion, and extremely rapid exposures, they are very desirable, shutters of extreme speed can be used and objects moving with the highest speed can be caught.

The large sizes meet all the demands of the studio for large portrait work and groups. High speed, brilliant illumination, excellent covering power and depth of focus for groups. No. 7 is a splendid lens for cabinet work, 8x10 heads, 10x12 or even 11x14 groups.

Nos. 9 and 10 are choice lenses for 14x17 to 18x22 heads and groups.



Equivalent of lens Glasses		Diam- eter of lens		Size of Plates Sharply Cov'd		Price with Iris	
No.	Focus	Inches	Ins.	F. 5.4	F. 8	F. 32 Diaphragm	
0	2 1/2	1 1/2	1 1/2	1 1/2 x 1 1/2	1 1/2 x 1 1/2	2 1/2 x 2 1/2	\$30 00
1	2 1/2	1 1/2	1 1/2	1 1/2 x 2 1/2	1 1/2 x 2 1/2	2 1/2 x 3 1/2	32 00
2	3 1/2	1 1/2	1 1/2	3 1/2 x 3 1/2	3 1/2 x 3 1/2	3 1/2 x 4 1/2	35 00
3	4 1/2	1 1/2	1 1/2	4 1/2 x 4 1/2	4 1/2 x 4 1/2	4 1/2 x 5 1/2	40 00
4	5 1/2	1 1/2	1 1/2	5 1/2 x 5 1/2	5 1/2 x 5 1/2	5 1/2 x 6 1/2	45 00
5	6 1/2	1 1/2	1 1/2	6 1/2 x 6 1/2	6 1/2 x 6 1/2	6 1/2 x 7 1/2	50 00
6	7 1/2	1 1/2	1 1/2	7 1/2 x 7 1/2	7 1/2 x 7 1/2	7 1/2 x 8 1/2	60 00

VOIGTLAENDER'S DYNAR

The Dynar is an entirely new lens, of recent construction, from Jena Glass, the advantages and attractive features of which are: its compactness and lightness, its speed, its careful anastigmatic correction and its comparatively low cost.

The Dynar consists of five glasses, two sets of two each firmly cemented and the fifth glass placed separately between the two sets. This construction is entirely different from the symmetrical form of the Collinear.

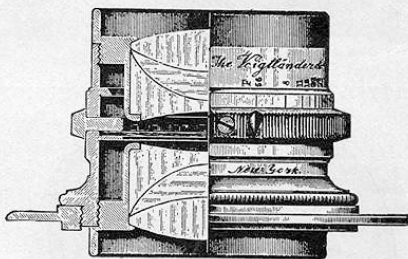
Owing to its compactness and speed the Dynar is highly recommended for hand and pocket cameras—Kodaks, Hawkeyes, Centuries, Ansco's, Premos, etc. The dimensions of the lens mounts are such that they will fit directly into the standard sizes of modern shutters.

The speed of the Dynar is F 6, which means that at this aperture it is 1 1/2 times as rapid as lenses at F 8. This speed is sufficient for all between-the-lens shutters and for focal-plane shutter work at high speed.

The Dynar lens is thoroughly corrected—achromatic, rectilinear and anastigmatic; the field is flat, the definition excellent.

The Dynar was primarily constructed to be a hand camera lens. It will however be found to cover a wide field besides—indoor, and outdoor work, views, groups, mechanical work, etc.

Equivalent of lens Glasses		Diam- eter of lens		Size of Plates Sharply Cov'd		Price with Iris	
No.	Focus	Inches	Ins.	F. 6	F. 8	F. 32 Diaphragm	
1	4 1/2	1 1/2	1 1/2	1 1/2 x 1 1/2	1 1/2 x 1 1/2	1 1/2 x 2 1/2	\$22 00
2	5 1/2	1 1/2	1 1/2	1 1/2 x 2 1/2	1 1/2 x 2 1/2	1 1/2 x 3 1/2	25 00
3	6 1/2	1 1/2	1 1/2	2 1/2 x 2 1/2	2 1/2 x 2 1/2	2 1/2 x 3 1/2	30 00
4	7 1/2	1 1/2	1 1/2	3 1/2 x 3 1/2	3 1/2 x 3 1/2	3 1/2 x 4 1/2	35 00
5	8 1/2	1 1/2	1 1/2	4 1/2 x 4 1/2	4 1/2 x 4 1/2	4 1/2 x 5 1/2	40 00
6	9 1/2	1 1/2	1 1/2	5 1/2 x 5 1/2	5 1/2 x 5 1/2	5 1/2 x 6 1/2	45 00
7	10 1/2	1 1/2	1 1/2	6 1/2 x 6 1/2	6 1/2 x 6 1/2	6 1/2 x 7 1/2	50 00
8	11 1/2	1 1/2	1 1/2	7 1/2 x 7 1/2	7 1/2 x 7 1/2	7 1/2 x 8 1/2	60 00
9	12 1/2	1 1/2	1 1/2	8 1/2 x 8 1/2	8 1/2 x 8 1/2	8 1/2 x 9 1/2	70 00
10	13 1/2	1 1/2	1 1/2	9 1/2 x 9 1/2	9 1/2 x 9 1/2	9 1/2 x 10 1/2	80 00

VOIGTLAENDER'S COLLINEAR LENS, SERIES
III. SPEED F-6.8

While heretofore all sizes of Series III have had as their largest aperture F-7.7, we have recently adapted the smaller sizes for the aperture F-6.8, thereby increasing their speed about 25 per cent, without any increase in cost.

Series III with full opening covers 70°-75°. The small sizes are excellent lenses for hand cameras.

Equivalent of lens Glasses		Diam- eter of lens		Size of Plates Sharply Cov'd		Price with Iris	
No.	Focus	Inches	Ins.	F. 6.8	F. 16	F. 32 Diaphragm	
1	3 1/2	1 1/2	1 1/2	1 1/2 x 1 1/2	1 1/2 x 1 1/2	1 1/2 x 2 1/2	\$30 00
2	4 1/2	1 1/2	1 1/2	1 1/2 x 2 1/2	1 1/2 x 2 1/2	1 1/2 x 3 1/2	34 00
3	5 1/2	1 1/2	1 1/2	2 1/2 x 2 1/2	2 1/2 x 2 1/2	2 1/2 x 3 1/2	36 00
4	6 1/2	1 1/2	1 1/2	3 1/2 x 3 1/2	3 1/2 x 3 1/2	3 1/2 x 4 1/2	40 00
5	7 1/2	1 1/2	1 1/2	4 1/2 x 4 1/2	4 1/2 x 4 1/2	4 1/2 x 5 1/2	40 00
6	8 1/2	1 1/2	1 1/2	5 1/2 x 5 1/2	5 1/2 x 5 1/2	5 1/2 x 6 1/2	50 00
7	9 1/2	1 1/2	1 1/2	6 1/2 x 6 1/2	6 1/2 x 6 1/2	6 1/2 x 7 1/2	55 00
8	10 1/2	1 1/2	1 1/2	7 1/2 x 7 1/2	7 1/2 x 7 1/2	7 1/2 x 8 1/2	60 00
9	11 1/2	1 1/2	1 1/2	8 1/2 x 8 1/2	8 1/2 x 8 1/2	8 1/2 x 9 1/2	70 00
10	12 1/2	1 1/2	1 1/2	9 1/2 x 9 1/2	9 1/2 x 9 1/2	9 1/2 x 10 1/2	80 00

LENSES

VOIGTLAENDER NEW UNIVERSAL EURYSCOPE

SERIES IVa SPEED F : 7

These lenses are on account of their rapidity, convenient size and large field of view, suitable for almost all kinds of work. These features have been much improved by the use of Jena glass, chiefly as regards the rapidity, owing to the great transparency of the glass.

In consequence of these properties they are suitable for cabinet groups, heads, architectural and landscape work.

PRICE

PRICE					
No.	Focus	Diameter of Field		Size	NET
		with 7 7.0		F 12.5	
2	9 3/4 in.	7 3/4 in.	6 1/2 x 8 1/2 in.		\$48 00
3	11 3/4 in.	8 3/4 in.	7 x 9 in.		57 00
4	14 1/4 in.	9 3/4 in.	8 x 10 in.		72 00
5	17 in.	10 1/2 in.	10 x 12 in.		100 00
6	19 1/2 in.	12 in.	11 x 14 in.		135 00

PORTRAIT
EURYSCOPE III

FOR HEADS AND BUSTS IN THE STUDIO

Portrait Euryscopes have been favorably known for their excellence amongst photographers in all parts of the globe for more than 30 years. Recently they have been improved by slightly modifying the calculations to conform to the peculiarities of the New Jena Glass. The most suitable grades of the latter are now used for the manufacture of the Euryscope lenses.

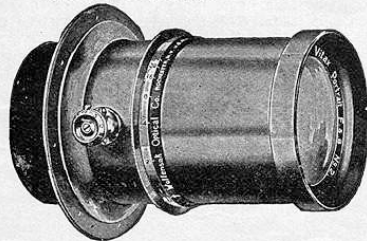
The Portrait Euryscope, Series III, is distinguished for rapidity under the skylight and for artistic softness. It is a lens intended for heads and busts, and the range of its sizes runs from carte de visite up to 8x10. The glasses are 4 in number, arranged in symmetric sets of two; they are large to correspond with the large aperture, F : 4.5. The angle, as is natural in portrait lenses, is about 40°.

Portrait Euryscopes are now furnished with iris diaphragms.

Equivalent Focus		Aperture		Size of Head or Figure		NET
No.	Inches	Inches	Inches	Inches	Inches	
2	8	1 1/4	5	3 1/4 x 4 1/4	4 1/4 x 5 1/4	\$42 00
3	8 1/2	1 1/4	5 1/2	4 x 5	5 x 6	52 00
4	11 1/4	1 1/4	5 1/2	5 x 8	6 x 8	72 00
5	14	1 1/4	6 1/2	6 1/2 x 8 1/2	8 x 10	90 00
6	16 1/4	1 1/4	8	8 x 10	10 x 12	120 00

The prices on this page are NET. All discounts have been deducted.

VITAX PORTRAIT LENS. F-3.8

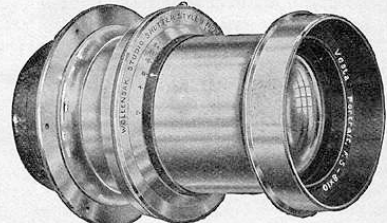


The Vitax Portrait Lens is made in three sizes. It has the extremely high speed of f-3.8, and while it is intended for portrait work in heads and busts it can also be used for groups by stopping it down. It is furnished in barrel with iris diaphragm and has a diffusing attachment which is extremely simple and effective.

Diameter of Lens		Equivalent Focus		Distance, Lens to Sitter, for 2 in. head		Outside Diameter of Flange		Price
No.	Inches	Inches	Inches	Inches	Inches	Inches	Inches	
1	3	10	About 6 ft.	5 1/2	\$ 70 00			
2	3 1/2	13	" 7 1/2 "	6 1/2	125 00			
3	4 1/2	16	" 9 1/2 "	7 1/2				

List prices, if equipped with Wollensak between the lens Studio shutter, Style B: No. 1, \$76.00; No. 2, \$98.00; No. 3, \$135.00.

VESTA PORTRAIT LENS SERIES, A. F-5

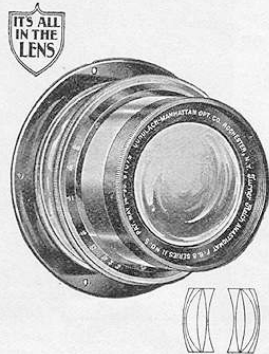


Our Series A Portrait Lens is furnished in barrel with iris diaphragm and cap. They will produce brilliant, well defined negatives using the full aperture. The "Series A" is primarily intended for portrait work, but is also excellent for groups when slightly stopped down.

No.		Size		Diameter of Lens		Equivalent Focus		Distance for Standing Cabinet		Outside Diameter of Flange		Price
No.		Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	
1	3 1/4 x 5 1/4	1 1/4	6	About 8 ft.	3 1/4	\$15 00						
2	4 x 5 1/2	1 1/4	7	" 10 1/2 "	3 3/4	20 00						
3	5 x 7	1 1/4	10	" 13 1/2 "	4 1/4	25 00						
4	6 1/2 x 8 1/2	1 1/4	12	" 15 1/2 "	4 1/2	35 00						
5	8 x 10	1 1/4	14	" 18 1/2 "	5 1/4	50 00						

List prices, if equipped with Wollensak between the lens Studio shutter, Style B: No. 3, \$30.00; No. 4, \$40.00; No. 5, \$55.00.

Lenses



Turner-Reich

CONVERTIBLE ANASTIGMATS F:6.8 Series II

These Lenses in comparison with others of proved quality offer some advantages which are worth considering. The optical qualities of the Turner-Reich are unsurpassed, which may be easily demonstrated by comparison with the best Lenses of other makers and in this statement we include the corrections of all optical errors to the highest degree, the definition to the edge of the light circle and the illumination with a given aperture. By any practical or scientific test the Turner-Reich will maintain our claims that it will produce an optical image which no other Lens can excel. A Convertible Anastigmat is unquestionably a more useful lens than one of Symmetrical form, as the single combinations afford two additional perfect lenses of unequal focal lengths which frequently meet the conditions confronting the photographer much better than a lens of normal focal length. In landscape work, marines and mountain scenery the larger images given by the single combinations will in many cases produce a more satisfactory result than the complete lens. In comparison with certain Anastigmats of unsymmetrical construction in which the front and rear combinations are entirely different, permitting no use of either separately, the Turner-Reich is greatly superior, as such lenses are limited to their one focal length and as complete doublets they cannot possibly give any better results.

We do not approve of uncemented lenses or those with air spaces between their component parts where such construction can be avoided, as in lenses of normal working aperture, because the inner surfaces gather a deposit which cannot be prevented and the slightest degradation from this cause must necessarily affect the quality of the image and show in the negative by a loss of definition and brilliancy.

The single combinations give a working aperture of F:12.5 and F:16, respectively, for the rear and front combinations.

Barrel mounts have an Iris Diaphragm.

The Series II and Series III Turner-Reich Anastigmats are identical in optical qualities and the single combinations of the latter may be used separately like those of the convertible lenses, but they are equal instead of dissimilar in focal length. The singles of the symmetrical series are about twice the focal length of the doublet. Accurate mounting and fitting of our lenses cannot be guaranteed unless we are allowed to do the work, and if the customer supplies the shutter it should be sent to us and we will furnish proper diaphragm and focusing scales for the lens.

The separation of anastigmat lenses is very important and each lens must be treated individually. All fitting is done by a modification of the lens cells and the shutter is always left intact.

Turner-Reich

CONVERTIBLE ANASTIGMAT F:6.8 Series II

No.	Diameter of Lenses	Equivalent Focus	Focus of Back Lens	Focus of Front Lens	For Plates	Price Mtd in Barrel	Price in Regno Shutter	Price in Autex Shutter
0	2 in.	5 in.	8 in.	12 in.	3 1/4 x 4 1/4	\$30.00	\$32.00	\$35.00
1	2 1/4 in.	6 in.	11 in.	14 in.	4x5	40.00	42.00	46.00
2	2 1/2 in.	7 1/2 in.	12 in.	18 in.	5x7	48.00	51.00	55.00
3	2 3/4 in.	8 1/4 in.	14 in.	20 in.	5x8	55.00	58.00	62.00
4	3 in.	10 1/2 in.	18 in.	24 in.	6 1/2 x 8 1/2	75.00	78.00	82.00
5	3 1/2 in.	12 in.	21 in.	28 in.	8x10	90.00	94.00	98.00

Turner-Reich

SYMMETRICAL ANASTIGMAT F:6.8 Series III

No.	Equivalent Focus	Diameter of Lenses	For Plates	Price in Barrel	Price in Regno Shutter	Price in Autex Shutter
1	6 in.	1 1/2 in.	4x5	\$35.00	\$37.00	\$41.00
2	7 1/2 in.	1 3/4 in.	5x7	40.00	43.00	47.00
3	8 1/2 in.	1 7/8 in.	5x8	45.00	48.00	52.00
4	10 1/2 in.	2 in.	6 1/2 x 8 1/2	65.00	68.00	72.00
5	12 in.	2 1/4 in.	8x10	75.00	79.00	83.00
6	14 in.	2 3/4 in.	10x12	100.00	107.00	111.00
7	17 in.	3 in.	11x14	145.00	152.00	156.00
8	21 in.	3 1/2 in.	14x17	225.00	235.00	240.00
9	26 in.	3 3/4 in.	17x20	315.00	325.00	330.00

Compound, Optimo and Koilos Shutters will be furnished with these Lenses by adding the price of the Shutter to the price of the Lens as listed with Barrel Mount.

Turner-Reich Convertible Anastigmats F:6.8

Mounted in High Speed Shutters

A first-class Shutter giving a wide range of speed adjustments is a desirable complement to a fine Camera equipped with a high grade Anastigmat Lens like the Turner-Reich and such a Shutter is really necessary to use the Lens to the best advantage. We have selected the Compound, Koilos and Optimo Shutters to recommend to our customers as the most desirable Shutters of this class.

THE COMPOUND

This is an automatic and setting Shutter combined which provides both time and bulb exposures automatically while speeds of from one second to the maximum speed indicated may be given automatically when the Shutter is set. The steel Shutter blades form a star shaped opening, giving even illumination with a high efficiency of light. The aluminum case is very handsomely finished in black.

THE OPTIMO

This Shutter has five Shutter blades which revolve in making the exposure, making a star shaped opening with the greatest possible illumination. In addition to "Bulb and Time" the Optimo gives a range of automatic exposures from one second to 1-300 second.

No. 0	No. 1	No. 2	No. 3
Speed of Compound.....1/250	1/200	1/150	1/100
Speed of Optimo—All sizes, one second to 1/300 second.			

CONVERTIBLE ANASTIGMAT F:6.8

Turner-Reich Series II.

Equivalent focus	Focus of back lens	Focus of front lens	Size	No.	Shutter	Mounted in Compound shutter	Mounted in Optimo shutter
No. 0.....5 inches	8 inches	12 inches	3 1/4 x 4 1/4	No. 0.....	Shutter	\$ 42 00	\$ 44 00
No. 1.....6 inches	11 inches	14 inches	4 x 5	No. 1.....	Shutter	54 50	56 00
No. 2.....7 1/2 inches	12 inches	18 inches	5 x 7	No. 2.....	Shutter	64 25	66 00
No. 3.....8 1/2 inches	14 inches	20 inches	5 x 8	No. 3.....	Shutter	71 25	73 00
No. 4.....10 1/2 inches	18 inches	24 inches	6 1/2 x 8 1/2	No. 2.....	Shutter	91 25	95 00
No. 5.....12 inches	21 inches	28 inches	8 x 10	No. 3.....	Shutter	110 00	110 00

TURNER-REICH ANASTIGMAT SERIES V F:9

These Lenses are intended for process work and all other purposes of reproduction which require absolute definition. They are also the best Lenses for all kinds of commercial photography above 8x10, as they are smaller and much lighter than lenses of larger working aperture. There is also a considerable saving in cost as compared with more rapid lenses of equal focal lengths. As satisfactory depth of focus can never be secured in commercial work or when using lenses of these focal lengths without stopping down to at least F:9 it follows that a larger aperture offers no advantage. These lenses give a perfect image free from chromatic aberration, astigmatism or distortion. The definition is critically sharp over the whole field. The homogeneous formation and permanency of Turner-Reich lenses make them especially desirable for use in establishments where chemicals and acid fumes are present.

No.	Diam. of Lenses	Plate	Focus	Waterhouse stops	Iris Diaphragm or Autex shutter
1	1 1/2 in.	10x12	14 in.	\$ 75 00	\$ 80 00
2	2 in.	16x18	18 in.	125 00	130 00
3	2 1/2 in.	18x22	24 in.	180 00	190 00
4	3 in.	22x25	30 in.	275 00	

Prisms, prices will be quoted on request.



TURNER-REICH ANASTIGMAT F:6.8

FOR KODAKS. A Turner-Reich lens makes a wonderful difference in Kodak work and with it picture taking becomes possible and successful under conditions the ordinary Kodak Lens is not adapted to. A Turner-Reich Lens insures perfect definition with full detail and luminosity in the shadows and its rapidity permits the addition to the equipment of a high speed shutter. The Turner-Reich is an ideal lens for Kodaks, as it is free from air spaces between the combinations and its four surfaces are easily accessible for cleaning.

We offer the Turner-Reich Lens in Cells ready to screw into the Kodak single or double valve Shutter and no special fitting is required.

Price For No. 3A and No. 4 Kodaks

4x5 Series III Turner-Reich Anastigmat F:6.8 in cells of 6 1/2 in. focal length, in handsome silk lined case, diaphragm and focusing scales included.....	\$30 00
Autex Shutter, extra.....	10 00
No. 1 Compound Shutter, extra.....	14 50

LENSES

GOERZ DOUBLE ANASTIGMAT LENS—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.

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.

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.

The following glasses are employed in the construction of the Double Anastigmat, viz., a Barium-Silicate Crown, a light Baryta Flint and a soft Silicate Crown. All three glasses are absolutely permanent and are highly transparent and perfectly homogeneous.

THE GOERZ DAGOR (SERIES III) AS A WIDE-ANGLE LENS

The exceptionally fine correction of the Goerz Dagor Lenses over the entire light-circle allows us to use them with the most perfect results as wide-angle lenses up to an angle of 90 degrees.

The Double Anastigmats Series III are stocked in mounts fitted with Iris diaphragms only.

Each stop indicates the time of exposure in accordance with Dr. Stolze's formula:

No.	Equivalent Focus, Inches	Free Aperture, Inches	F-7.7	F-15.5	F-62	Price with Iris Diaphragm	Price with Sector Shutter
0000	1 1/8	1 1/8	1 1/8 x 1 1/8	2 x 2	2 x 2 1/2	\$34 00	\$49 00
000	1 1/4	1 1/4	2 1/8 x 2 1/8	2 1/2 x 3	2 1/2 x 3 1/2	34 50	49 00
00	1 1/2	1 1/2	3 x 3	3 1/4 x 4 1/4	4 x 5	35 50	50 50
0	1 3/4	1 3/4	3 1/2 x 4 1/2	4 x 5 1/2	4 1/2 x 6 1/2	37 50	52 50
F-6.8.	2	2	4 x 4 1/2	4 1/2 x 6 1/2	5 x 8	45 00	60 00
1	2 1/4	2 1/4	4 1/4 x 5 1/4	5 x 8 1/2	5 1/2 x 9	51 50	68 50
2	2 1/2	2 1/2	5 x 5 1/2	5 1/2 x 8 1/2	6 x 10	62 50	77 50
3	2 3/4	2 3/4	5 1/2 x 6 1/2	6 x 9	7 x 10	75 50	93 50
4	3	3	6 x 7	7 x 10	8 x 12	91 00	109 00
5	3 1/4	3 1/4	7 x 9	8 x 10	10 x 12	107 00	125 00
6	3 1/2	3 1/2	8 x 10	10 x 12	12 x 15	140 00	162 00
7	3 3/4	3 3/4	10 x 12	12 x 15	18 x 22	182 00	219 00
7a	4	4	11 x 14	13 x 17	21 x 25	225 00	259 00
F-7.7.	8	8	12 x 15	16 x 18	22 x 25	325 00	No. 0 \$45 50
9	9	9	16 x 18	18 x 22	24 x 30	539 00	No. 1 53 00
10	10	10	18 x 22	22 x 25	28 x 36	1070 00	No. 1a 53 00
11	11	11	22 x 25	24 x 30	34 x 44		

GOERZ CELOR ANASTIGMAT SERIES IB. F-4.5. F-5.5 Extra Rapid Apochromatic

Special objective for fastest instantaneous exposures, portraits in room and studio; enlargements and reproductions; three-color process; tele-photography; projections. Also for landscapes and architectural views, and for all purposes requiring extreme speed.

There are in the market several anastigmat lenses working at a great relative aperture. Theoretically, their speed leaves nothing to be desired; but when they are used at their full aperture the extent of the field sharply covered is not sufficient to allow one to make practical use of their speed.

Our Celor Lens combines these properties. It has its place therefore in all up-to-date studios.

We claim that Celor Lenses are superior to all other anastigmats of equal maximum aperture because of their larger field of sharp definition at full opening. This enables one to select a Celor Lens of shorter focal length than that of other similar anastigmats, an important consideration where the length of the studio is limited. This is a great advantage for the photographer, meaning, as it does, a gain in the depth of focus and incidentally in actual working speed.

The back combination of the Celor can be used as a single lens of double the focal length. At F-32 it will yield about the same definition as the whole lens and twice the covering power of the latter.

No.	Focus	Relative Opening	Diameter of Lenses	Size of Plate	Price with Iris Diaphragm	No.	Focus	Relative Opening	Diameter of Lenses	Size of Plate	Price with Iris Diaphragm
000	2 1/8	F-4.5	9-16	1 1/2 x 2 1/2	\$34 50	4	9 1/2	F-5.	1 1/2 x 2 1/2	7 x 9	\$30 50
00	3 1/2	F-4.8	25-32	2 1/2 x 3 1/2	38 00	5	10 3/4	F-5.	2 1/2 x 3 1/2	8 x 10	108 50
0	4 1/4	F-4.8	1 1/2-32	3 1/4 x 4 1/4	40 00	6	12	F-5.5	2 1/2 x 3 1/2	10 x 12	126 50
1	5	F-4.8	1 1/4	4 x 5	47 00	7	14	F-5.5	2 1/2 x 3 1/2	12 x 15	163 00
2	7	F-4.8	1 1/4	4 1/4 x 6 1/4	54 50	7a	16 1/2	F-5.5	3 x 3-32	11 x 14	208 50
3	8 1/4	F-5.	1 1/4	5 x 8	67 00	8	19	F-5.5	3 1/2 x 4 1/2	12 x 15	245 00

Lenses

GOERZ PROCESS DAGOR DOUBLE ANASTIGMAT LENS

Special Rapid Anastigmat Lens for Half-tone and Line Work, Autotypic, Three Color Work, etc.



to the up-to-date process worker.

For additional information on these or any other lenses of the Goerz make correspond with us.

PRICES AND SIZES OF

Goerz "Process Dagor" Lenses

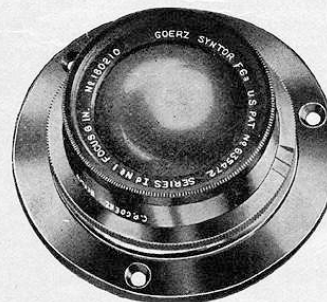
F 7.7

No.	Focus Inch	Aperture Inch	Full Size F. 15 Inch	Reduced F. 15 Inch	SIZE OF PLATE COVERED AT F. 7.7 FOR REDUCTION Inch	CODE WORD	PRICE WITH WATERHOUSE STOP
6	12	1 1/8	16x20	10x12	8x10	Damaror	\$110.00
7	14	2	20x24	12x16	10x12	Darior	141.50
7a	16 1/2	2 1/8	24x28	14x18	11x14	Davrior	192.00
8	19	2 3/8	28x32	16x20	12x16	Dekaror	230.00
9	24	3 1/8	36x40	20x24	16x18	Dictor	345.00
10	30	4 1/4	40x48	24x28	18x22	Dolomor	565.00

GOERZ SYNTOR

F:6.8

An Inexpensive Lens for Hand-cameras



This series of Double Anastigmats is particularly intended for use on hand-cameras, and is made only up to the No. 6 size (12 inches focal length).

Designed on the same lines as the Celor, the Syntor Lenses are perfectly corrected for spherical chromatic and astigmatic aberrations. As they work at a smaller relative aperture, the single combinations can be brought very close together, insuring thereby a most even light-distribution over the whole plate.

Even at full aperture they are entirely free from coma and central spherical aberration.

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

Each combination of the Syntor Lens can be used singly with a medium or small stop as a valuable landscape or portrait lens of approximately double the focal length of the complete objective.

No.	Equivalent Focus	Plate Cut Sharp at F. 6.8	Price, with Iris Diaphragm
0	4 1/2 in.	3 1/2 x 4 1/4 in.	\$23 50
*1	6 in.	4 x 5 in.	27 00
2	7 in.	5 x 7 in.	32 50
3	8 1/2 in.	5 x 8 in.	45 50
4	9 1/2 in.	6 1/2 x 8 1/2 in.	54 50
6	12 in.	8 x 10 in.	72 50

*For 3A folding Pocket Kodaks we provide a Syntor of 6 1/2-inch focus of same series in place of our Regulator No. 1.

Crown Anastigmat

SERIES I, F: 4.5

The new series has been produced to meet the urgent demand for a lens of great possibilities. It is a matter of record that it is filling this demand to the entire satisfaction of both amateur and professional photographers. The same remarkable brilliancy, unusual covering power and microscopical definition which characterized the former Crown Lenses, are present in this series and the speed of the former series is almost double in addition.

The Series I is a symmetrical lens; the front and back combinations are of equal focal length, each being composed of four glasses cemented in pairs with an air space between each pair. This formula is, in fact, used in every series of Crown Anastigmat Lenses.

The smaller sizes will quickly recommend themselves to users of hand and view cameras on account of their speed and compactness. The larger sizes have proved their merit for studio and home portraiture work being equally well suited for heads, busts, groups or any work of this character. Beginning with the No. 7, all this series are equipped with a diffusing attachment operated from the outside of the barrel.

No.	Plate Covered at F:4.5 Inches	Equivalent Focus Inches	Free Aperture of Lenses Inches	Price Lens with Barrel and Iris Diaphragm	Price Lens Fitted to Optimo or Compound Shutter
1	2 1/2 x 3 1/2	4 3/4	1 5/16	\$ 33 00	\$ 44 00
2	3 1/2 x 4 1/2	5	1 1/2	36 00	48 00
3	4 x 5	6	1 3/8	41 00	53 00
4	5 x 7 1/2	7 1/2	1 1/2	52 00	64 50
5	5 x 8	8 1/4	1 13/16	62 00	75 00
6	6 1/2 x 8 1/2	9 3/4	2 1/16	85 00	100 00
7	8 x 10	12	2 1/8	128 00	.....
8	10 x 12	14 1/2	2 3/4	165 00	.....
9	10 x 14	16 1/4	3	212 00	.....
10	11 x 14	17	3 1/8	280 00	.....
11	14 x 17	20	4 13/32	375 00	.....
12	16 x 20	23 3/4	5	.....	.....

SERIES II, F: 6.3

Although not now the fastest of the Anastigmat series, this lens holds its popularity with all except those requiring the greatest speed. Repeated trials under all circumstances have proved that at a speed of F:6.3, the Series II has no superior. We do not hesitate to recommend it unreservedly for those needing a lens for general view work.

No.	Plate Covered at F:6.3 Inches	Equivalent Focus Inches	Free Aperture of Lenses Inches	Price Lens with Barrel and Iris Diaphragm	Price Lens Fitted to Optimo or Compound Shutter
1	2 1/2 x 3 1/2	4 3/4	1 5/16	\$ 30 00	\$ 40 00
2	3 1/2 x 4 1/2	5	1 1/2	34 00	45 00
3	4 x 5	6	1 3/8	39 00	50 00
4	5 x 7 1/2	7 1/2	1 1/2	44 00	55 50
5	5 x 8	8 1/4	1 13/16	50 00	63 50
6	6 1/2 x 8 1/2	9 3/4	2 1/16	72 00	85 00
7	8 x 10	12	2 1/8	98 00	110 50
8	10 x 12	14 1/2	2 3/4	130 00	.....
9	10 x 14	16 1/4	3	175 00	.....
10	11 x 14	17	3 1/8	225 00	.....
11	14 x 17	20	4 13/32	290 00	.....
12	16 x 20	23 3/4	5	.....	.....

EURYNAR DOUBLE-ANASTIGMAT

SERIES 4: F. 4. 5.

The "Euryr" F:4.5, will give beautiful results in artistic portraiture and has the great advantage of giving microscopically sharp definition over the entire plate at full aperture, when required for standing figures, groups and copying, etc.

In this series, the photographer will find the good qualities of all other lenses combined.

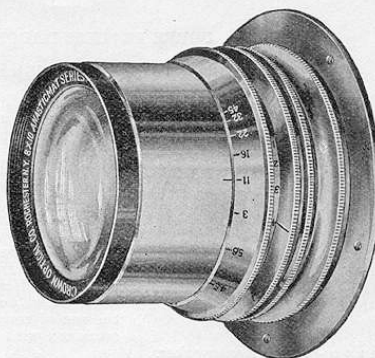
Series	No.	Focus	Size of Plate Full Aperture	With Smaller Stops	In Barrel
Series 1 F:4.5	0	4 3/4	3 1/2 x 4 1/2	3 1/2 x 5 1/2	\$ 20 00
	1	5	4 x 5	4 x 6	22 00
	2	6 1/2	4 x 6	4 x 8 1/4	26 00
	3	7 1/2	5 1/4 x 7 1/4	5 1/4 x 9 1/4	32 00
Series 2 F:5.6	3b	8 1/4	6 x 8 1/4	6 x 10 5/8	41 00
	4	9 1/2	7 1/4 x 9 1/2	7 1/4 x 11 3/4	50 00
	5	11 3/4	9 1/2 x 11 3/4	9 1/2 x 14 1/4	68 00
	6	14 1/4	11 3/4 x 14 1/4	11 3/4 x 18	95 00
Series 3 F:5.4	7	16 1/2	11 3/4 x 16	16 x 20	115 00
	8	19	14 x 18	18 x 24	160 00
	9	23 1/4	17 1/4 x 23 1/4	21 x 28	215 00
	10	28 1/2	21 x 28	25 x 34	280 00
Series 4 F:4.5	11	34 1/2	25 x 34	30 x 40	360 00
	12	42 1/2	30 x 40	36 x 48	450 00
	13	51 1/2	36 x 48	42 x 56	550 00
	14	61 1/2	42 x 56	50 x 64	780 00
Series 5 F:4.5	15	71 1/2	50 x 64	60 x 76	1150 00
	16	81 1/2	60 x 76	72 x 90	1500 00
	17	91 1/2	72 x 90	84 x 108	2380 00
	18	101 1/2	84 x 108	100 x 128	.....

SERIES 1, F. 6. 8.

This series of the "Euryr" is a superb universal lens, suitable for every branch of photography, landscapes, architecture, portraits, and general hand camera work.

SERIES 3, F. 5. 4.

In the series F:5.4, we have the advantage of high speed, with the qualities of a Universal Lens. Having the same focal length in its various sizes as the Series F:6.8, it will give equal depth of focus when stopped to same aperture.



SERIES III, F: 6.3

In this series the photographer finds a lens exceptionally well suited to all-round work,—for general commercial work, for copying, etc.,—with the advantage of speed much greater than the ordinary, with absolute accuracy of definition, free from any trace of astigmatism and with a perfectly flat field. The fact that Crown Anastigmat Lenses are symmetrical will be found especially advantageous for this class of work, for either combination may be used separately. When so used each combination is a perfectly corrected anastigmat lens with a focal length about double that of the complete objective.

After a most thorough series of experiments and tests, we have succeeded in increasing the working speed of the Series I. from F:6.8 to F:6.3 without detracting from its high quality or fine optical corrections. The mechanical and optical construction of this lens is of the highest order and it is fully corrected for spherical and chromatic aberration and astigmatism. The finish, whether mounted in barrel or in shutter is black enamel with gold engraving, making it durable, practical and beautiful in appearance.

The Series I. is as near an "all-around" or "general purpose" lens as can be made, and because of its small size is especially desirable for compact cameras and

Lenses
VELOSTIGMAT, SERIES I. F:6.3

Kodaks. It will cover plates two sizes larger than is listed for by stopping down and single combinations are corrected for separate use by stopping down. The Series I. is especially desirable for landscape and view work, architectural and commercial photography, copying, enlarging, and for all classes of work requiring a perfectly corrected objective.

We can supply the Series I. lenses in cells to fit the 3 1/4 x 4 1/4—3 1/4 x 5 1/2 and 4 x 5 sizes Folding Pocket Kodaks, Sereia and Ansco roll film cameras, and as these lenses are of the exact focus they can simply be screwed into the shutters on the above cameras without special fitting.

No.	Diam. of Lens, ins.	Equivalent Focus, ins.	Plates Covered Sharply at F:6.3	Price with Barrel or Regno Shutter	Price with Autex Shutter	Price with Optimo Shutter
1	1 1/4	5	3 1/4 x 4 1/4	\$25 00	\$22 00	\$35 00
2	1 1/2	6	4 x 5	30 00	33 00	40 00
3	1 3/4	7 1/2	4 1/2 x 5 1/2	34 00	38 00	40 00
4	1 7/8	8 1/4	5 x 7	38 00	42 00	50 00
5	2	10	6 1/2 x 8 1/2	52 00	62 00	70 00
6	2 1/4	12	8 x 10	70 00	75 00	85 00
7	2 1/2	16 1/2	11 x 14	125 00	.....	.....

VELOSTIGMAT, SERIES II, F:4.5

II. cannot be used separately, as they are not corrected for use alone.

No.	Diam. of Lens, ins.	Equivalent Focus, ins.	Plates Covered Sharply at F:4.5	Price with Barrel or Regno Shutter	Price with Autex Shutter	Price with Optimo Shutter
1	1 1/4	5	3 1/4 x 4 1/4	\$35 00	\$40 00	\$46 00
2	1 1/2	6	4 x 5	42 00	47 00	53 00
3	1 3/4	7 1/2	4 1/2 x 5 1/2	50 00	55 00	62 00
4	1 7/8	8 1/4	5 x 7	55 00	60 00	67 00
5	2	10	6 1/2 x 8 1/2	80 00	85 00	92 00
6	2 1/4	12	8 x 10	120 00	.....	.....
7	2 1/2	16 1/2	11 x 14	200 00	.....	.....

The No. 5, 6 and 7 sizes have diffusing adjustment which makes them particularly valuable for portrait and group work.

NOTE—To ascertain cost of Velostigmat in mounts fitted to customer's own shutter, deduct following amounts from list prices in barrel:

No. 1, \$3.00; No. 2, \$4.00; No. 3, \$5.00; No. 4, \$6.00; No. 5, \$7.00; No. 6, \$8.00; No. 7, \$9.00.

The largest size Series II. that can be mounted in Regno shutter is No. 6. That size and the larger ones can be mounted in our Studio shutter.



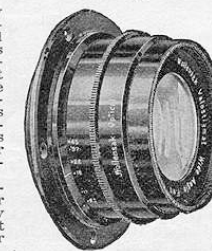
VELOSTIGMAT WIDE ANGLE Series, III F:9.5

The Series III, is specially adapted to interior architectural, mechanical and all classes of work where it is necessary to work in confined space or where a fast objective with a wide angle is desired. It gives a perfectly flat field and covers the plate sharp at full aperture, and on account of its speed is most desirable for flash-light work of interiors, etc.

The angle of field is 90 degrees, although a greater angle can be obtained by stopping down and using it on the next size, larger plate than is listed for.

The Series III. can be furnished in barrel with iris diaphragm and cap or with our shutters as listed below.

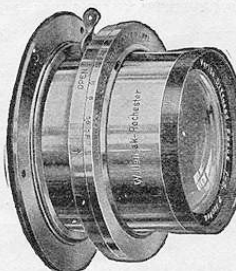
No.	Working Aperture	Equivalent Focus, ins.	Plates Covered Sharply at F:9.5	Price with Barrel or Regno Shutter	Price with Autex Shutter	Price with Optimo Shutter
1	.48	4 3/4	5 x 7	\$30 00	\$34 00	\$42 00
2	.60	6	6 1/2 x 8 1/2	40 00	44 00	52 00
3	.66	6 3/4	8 x 10	50 00	55 00	68 00
4	1.00	9 1/2	11 x 14	85 00	90 00	100 00



VERITO DIFFUSED FOCUS, F:4

"True to Life"

"The Verito is absolutely right in every respect for Pictorial Work both Landscape and Portraiture."



Prices, Specifications, Etc.

No.	Equivalent Focus	Diameter of Lens	Price with Shutter
1	9 ins.	2 1/4 ins.	\$25 00
2	11 1/2 ins.	3 ins.	35 00
3	14 1/2 ins.	3 3/4 ins.	50 00
4	18 ins.	4 1/4 ins.	70 00

Wide Angle Lenses

COOKE PRIMOPLANE LENSES

Series VIIa. Full Aperture F/6.5



For Extreme Wide-Angle Work of All Kinds

This new series is designed for photographs which must of necessity be made in cramped spaces. For dim interiors, banquets and large groups, the Primoplane anastigmats have this great advantage: They may be accurately focussed with the largest diaphragm opening (F/6.5), so that the photographer may see clearly what he is getting on the focussing screen. Sharp definition is given even at F/6.5 throughout the plates specified, but a smaller stop must be used where great "depth" is required. The lenses permit an extreme rise or fall of the lens-board.

An immense saving in time is effected. If, for example, the ordinary wide-angle lens with a full aperture of F/16, demands an exposure of six seconds, the Cooke Primoplane lens at F/6.5 requires only one second under the same conditions of lighting.

No.	Focus Inches	Plates Covered Inches	Diameter of Flange Screw Inches	Net Price with Iris Diaphragm
39	4	4x5	1 1/2	\$33 50
40	5	5x8	1 1/2	35 00
41	6	6 1/2 x 8 1/2	1 1/2	39 50
42	7	8x10	1 1/2	48 50

CROWN WIDE ANGLE LENS—F: 16



Both of the series listed below are constructed to cover properly the plate for which they are listed. All sizes of each series can be mounted either in shutter or barrel. When ordered in cells, they are furnished to fit any standard make of shutter.

EXTREME W. A. LENS—ANGLE OF VIEW 90° TO 100°

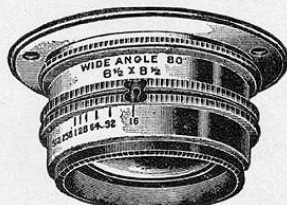
Price-List

No.	Plate Covered at F:16 Inches	Equivalent Focus Inches	Diameter of Lens Inches	100° Barrel with Iris Diaphragm	Lens in Cells Only
3	4 x 5	3 1/4	5/8	\$13 00	\$11 00
5	5 x 7	4 1/2	3/4	17 00	15 00
7	6 1/2 x 8 1/2	5 5/8	7/8	20 00	18 00
8	8 x 10	6 3/4	1	25 00	21 00
9	10 x 12	8	1 1/4	30 00	26 00
10	11 x 14	9	1 1/2	36 00	30 00

SPECIAL WIDE ANGLE LENS

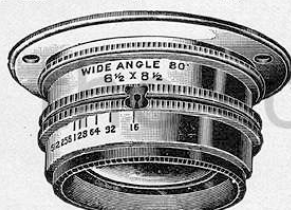
Series G

For Architecture, Views in Confined Situations and Interiors.



These lenses embrace an angle of about 90 degrees, and they are designed for making views in confined situations, such as interiors, large buildings, etc. They are a good lens at a moderate price and we recommend them. They are fitted with Iris Diaphragms.

No.	Focus	Wide Angle 80 degrees Diameter.	Focus.	Price.
1	4 x 5	3/4	3 1/2	\$ 8 50
2	5 x 8	5/8	5 1/2	10 00
3	6 1/2 x 8 1/2	7/8	6 1/2	14 00
4	8 x 10	1	8	15 00
5	11 x 14	1 1/2	10 1/2	22 50
6	14 x 17	2	14	27 50



EXTREME WIDE ANGLE

Series F

With the introduction of this objective it will be evidenced that we have entirely overcome the one great fault which is almost universal with wide angle lenses—a round field.

No.	Focus	Special Wide Angle 100 degrees Diameter.	Focus.	Price.
1	4 x 5	3/4	3 1/2	\$11 00
2	5 x 8	5/8	5 1/2	14 00
3	6 1/2 x 8 1/2	7/8	6 1/2	18 00
4	8 x 10	1	8	21 00
5	11 x 14	1 1/2	10 1/2	25 00
6	14 x 17	2	14	30 00

W. A. CELLS

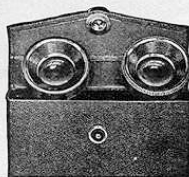
Series H

A Wide Angle Lens is a valuable addition to any outfit. It includes from twenty-five to thirty degrees wider field than the Rapid Rectilinear, and is particularly valuable for confined situations—interiors and certain architectural subjects. Being much shorter in focus, it permits placing the camera closer to the object.

These Wide Angle Lenses fit the same shutter and interchange with the regular Rectilinear, Rapid Symmetrical Lenses.

Price

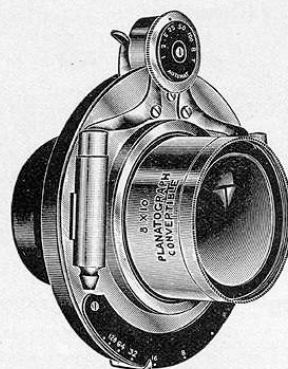
4x5.....\$5 00 5x7.....\$7 50 6 1/2 x 8 1/2....\$12 00



Lenses

PLANATOGRAPH RAPID RECTILINEAR LENS

F.8 fitted in B and L Auto Shutter.

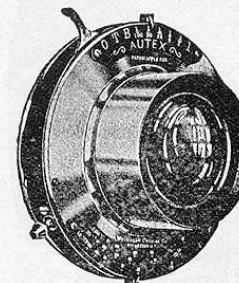


The Planatograph is a high grade Rapid Rectilinear Lens with good speed and covering power. It is convertible, the front and back combinations are corrected so as to work single, thus giving three different focal lengths, making it a valuable lens for Commercial, Architectural, Views, Groups and portrait work. Price includes Lens and Shutter.

Specifications

4 x 5	Diameter 1 inch; Focus 6 inch	...\$12 00
5 x 7	Diameter 1 1/4 inch; Focus 8 inch	... 15 00
6 1/2 x 8 1/2	Diameter 1 1/2 inch; Focus 11 inch	... 20 00
8 x 10	Diameter 1 3/4 inch; Focus 13 inch	... 25 00

RAPID SYMMETRICAL SERIES V, F-S



Our Rapid Symmetrical Lens is suitable for all kinds of general photographic work including portraiture and groups. It is of the convertible type, both systems being corrected for use separately, so it can be used for long focus work, copying, enlarging, etc. It is composed of two combinations of imported glass, each one consisting of a crown and flint accurately ground and polished and cemented together. It is compact, so is suitable for the ordinary hand cameras and very desirable for many different purposes, as it has three different focal lengths.

Special Prices

Size	Diam-eter	Mount-ment	With focus barrel	With shutter	With Optimo shutter
3 1/4 x 4 1/4	3/4 in.	5 in.	\$8 00	\$9 00	\$11 00
4 x 5	1 in.	6 1/4 in.	9 00	10 00	13 00
5 x 7	1 1/4 in.	8 in.	12 00	13 00	15 00
6 1/2 x 8 1/2	1 1/2 in.	10 1/4 in.	15 00	16 00	18 00
8 x 10	1 3/4 in.	12 1/2 in.	18 00	20 00	23 00
10 x 12	2 in.	16 in.	27 00	29 00	36 00
11 x 14	2 1/4 in.	18 1/2 in.	35 00	37 00	
14 x 17	2 3/4 in.	22 in.	47 00	50 00	
17 x 20	3 1/4 in.	26 in.	53 00	57 00	

Achromatic Meniscus Portrait Lenses

These lenses produce an optical image which has a different quality from that given by photographic lenses of any other type. When using the full aperture, the definition is not sharp at any point but the diffusion is very evenly distributed as these lenses have a very flat field. The result is a soft rendering of the subject, the details are apparent, but not obtrusive. The effect is entirely different from that obtained by using an ordinary lens out of focus.

These lenses are employed very extensively by many of the well known amateur photographers whose work in portraiture and genre especially has shown the artistic possibilities of photography.

Working Aperture F:6

No.	Diameter of Lenses	Equivalent Focus	Flange Inside Diameter	Flange Outside Diameter	Iris Diaphragm
1	2 1/4 inches	13 1/2 inches	3 inches	4 inches	\$25 00
2	2 1/2 inches	15 inches	3 inches	4 inches	25 00
3	2 3/4 inches	16 1/2 inches	3 1/2 inches	4 1/2 inches	27 50
4	3 inches	18 inches	3 1/2 inches	4 1/2 inches	30 00





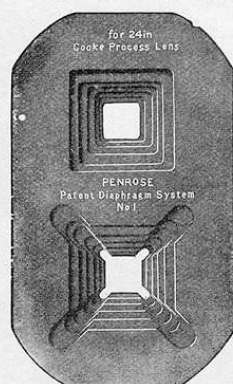
PHOTOGRAPHIC PRISMS

The prism is used to reverse the image formed by the lens, from left to right, thus making it unnecessary to strip and turn the films in process work. It effects a great saving in time and labor, and obviates the danger of stretching or damaging the film during manipulation. The mountings are so arranged as to bring the surface of the prism as close as possible to the front of the lens, thus securing the greatest effective angle of the lens and the maximum illumination and speed. The glass is of the purest quality and greatest possible light transmitting properties.

Figures in the margin show correct size

Aperture	Prism for Lenses as below.	Price	Aperture	Prism for Lenses as below.	Price
No. 1	Tessar	\$54.00	No. 1	Tessar	\$54.00
No. 2	Protar	60.00	No. 2	Protar	60.00
No. 3	Protar	90.00	No. 3	Protar	90.00
No. 4	Protar	130.00	No. 4	Protar	130.00
No. 5	Protar	180.00	No. 5	Protar	180.00
No. 6	Protar	240.00	No. 6	Protar	240.00
No. 7	Protar	310.00	No. 7	Protar	310.00
No. 8	Protar	357.00	No. 8	Protar	357.00
No. 9	Protar	400.00	No. 9	Protar	400.00
No. 10	Protar	450.00	No. 10	Protar	450.00
No. 11	Protar	500.00	No. 11	Protar	500.00
No. 12	Protar	550.00	No. 12	Protar	550.00
No. 13	Protar	600.00	No. 13	Protar	600.00
No. 14	Protar	650.00	No. 14	Protar	650.00
No. 15	Protar	700.00	No. 15	Protar	700.00
No. 16	Protar	750.00	No. 16	Protar	750.00
No. 17	Protar	800.00	No. 17	Protar	800.00
No. 18	Protar	850.00	No. 18	Protar	850.00
No. 19	Protar	900.00	No. 19	Protar	900.00

In estimating the size of prism which is required for a particular lens, a size should be selected which is at least equal to the diameter of the hood.

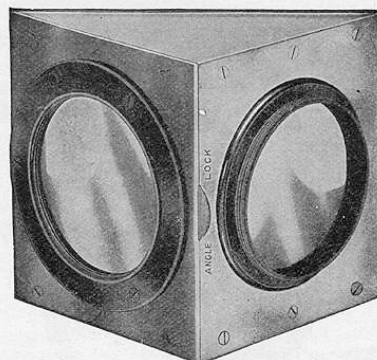


PENROSE PATENT DIAPHRAGMS

These patent diaphragms are for half-tone photo-engraving with any Cooke Process Lenses. A full description will be mailed free on request.

For Lens No.	Price per Set in Morocco-Covered Case.
14p	\$ 9.50
15p	9.50
16p	10.00
17p	10.75
18p	12.00
19p	15.50

Process Prisms

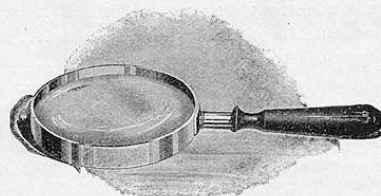


COOKE PHOTO-ENGRAVING PRISMS

Into the manufacture of these prisms is put the finest material and workmanship that money can buy. The accuracy of each surface is guaranteed, while the convenience of the mounting is unique. Standard screw-thread are provided (see below). One thread receives Cooke Process Lenses interchangeably, while the other receives the hood of the lens as shown in the illustrations. A small lever clamps the prism at the desired angle. Cheaper prisms are, of course, to be had, but it is poor economy to buy them.

For Lens No.	Size of Face	Price	For Lens No.	Size of Face	Price
14p	2	\$51.50	18p	3 1/2	\$ 98.00
15p	2 1/2	58.00	19p	3 1/2	98.00
16p	3	64.50	19ap	4 1/2	150.00
17p	3 1/2	80.00	19bp	4 1/2	150.00

READING AND RETOUCHING GLASSES



These glasses are the best, every one being guaranteed. They have ebonized wood handles, and nickel-plated rims. The lenses are ground from extra white glass, of very strong curvatures, giving the best possible magnification for different diameters.

Diameter	Price
2 inches	\$0.40
2 1/2 inches	60
3 inches	80
3 1/2 inches	1.15
4 inches	1.50
4 1/2 inches	2.00
5 inches	2.25

REDUCING GLASSES

Very handy in examining large work that has to be reduced to a smaller size.

Diameter	Price
2 inches	\$1.25
2 1/2 inches	2.00
3 inches	2.50
3 1/2 inches	3.75
4 inches	5.00

FILTERS

THE INGENTO SER. A RAY FILTER

This Ray Filter can be used with any make of dry plates on the market. It gives true color value to all objects in a picture, whether landscapes, flowers, portraits, etc. It should be used in photographing mountains or distant objects. It prevents halation, as it absorbs the rays that cause it. The most beautiful cloud effects are obtained with it. Mounted in nickel plated cells with adjustable springs.



No.	Diameter In.	Price	No.	Diameter In.	Price
0	1 1/2	\$1.00	8	2 1/2	\$2.00
1	1 5/8	1.00	9	2 3/4	2.25
2 (for box cameras)	1 7/8	1.00	10	3	2.50
3	2	1.00	11	3 1/4	3.00
4	2 1/8	1.00	12	3 1/2	3.50
5	2 1/4	1.25	13	4	4.25
6	2 1/2	1.50	14	4 1/2	5.00
7	2 3/4	1.75			

INGENTO COLOR FILTER.

(Wallace's Visual Luminosity.)



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.

PRICES.

No. 1, Diam. 1 1/2 in.	\$1.50	No. 8, Diam. 2 1/2 in.	\$3.00
No. 2, for box cameras	1.50	No. 9, " 2 3/4 in.	3.25
No. 3, Diam. 1 7/8 in.	1.50	No. 10, " 3 in.	3.50
No. 4, " 2 in.	1.50	No. 11, " 3 1/4 in.	4.00
No. 5, " 2 1/8 in.	2.00	No. 12, " 3 1/2 in.	4.50
No. 6, " 2 1/4 in.	2.25	No. 13, " 4 in.	5.25

PRICES OF SQUARE FILTERS.

PRICES OF SQUARE ISOCHRON RAY FILTERS.

2x2	\$2.00	2 1/2 x 2 1/2	\$2.50
3x3	3.00	3 1/2 x 3 1/2	3.75
4x4	4.50	4 1/2 x 4 1/2	5.00
5x5	5.50		

PRICES.

2x2	\$2.00	2 1/2 x 2 1/2	\$2.50
3x3	3.00	3 1/2 x 3 1/2	3.75
4x4	4.50	4 1/2 x 4 1/2	5.00
5x5	5.50		

PRICES OF SQUARE IDEAL RAY FILTERS.

2x2	\$1.50	2 1/2 x 2 1/2	\$1.75
3x3	2.00	3 1/2 x 3 1/2	2.50
4x4	3.00	4 1/2 x 4 1/2	3.50
5x5	4.00		

WRATTEN AND WAINWRIGHT FILTERS

These filters are prepared in accordance with the very latest scientific developments, and by highly skilled and trained workmen, and are universally recognized as the very best to be obtained.

They are furnished in eight different colors. Series K1—A very light screen to the eye, but of high correcting power. It requires double the normal exposure upon the panchromatic plate, and about three times the normal exposure upon other color sensitive plates, the ideal screen for short exposures and hand camera work.

Series K2—A strong screen increasing the exposure about four times on the Panchromatic Plate, and about eight to ten times on other color sensitive plates. The Standard Correcting Screen that is usually supplied when particular depths are not given.

Series K3—This Screen affords correct color rendering upon the Panchromatic Plate. Requires five times the normal exposure and is not recommended for other plates than the Panchromatic. This screen is largely used for picture copying, and for other work requiring exactly truthful rendering in monochrome of varied colors.

Series G—A strong yellow, value in photographing oak and yellow woods.

Series A—Orange red for photographing mahogany and rose wood, and similar articles.

Series B—Green, for photographing, typewriting, figure rugs, carpets, etc.

Note: The above three filters are not recommended for use with other than Panchromatic Plates.

Series C—Blue, for three color work.

Series F—Deep red, for photographing dark mahogany, blue prints, etc.

PRICES OF WRATTEN AND WAINWRIGHT FILTERS

Gelatin Film Filters unmounted: K-1, K-2, K-3, G, A, B, C, F.

Per square inch	\$0.10
Minimum charge	.20
Separate Filters, 2 inches square, each	\$0.35
Separate Filters, 3 inches square, each	.75

The set of filters for general Orthochromatic work is comprised of K-1, K-2 and K-3.

Per set, 2 inches square	\$1.00
Per set, 3 inches square	2.25

The set of contrast filters is comprised of K-3, G and A. Prices same as above.

The set of tri-color filters is comprised of A, B and C. Prices same as above.

CONTRAST FILTERS FOR COMMERCIAL PHOTOGRAPHY

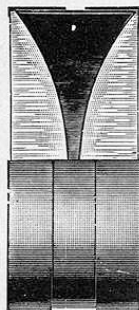
Complete set of eight filters, 3 inches square, cemented in B glass (White Optical Glass), packed in neat case, K-1, K-2, K-3, G, A, B, C and F. Per set...\$20.00

A set of three filters 3 inches square, cemented in B glass and packed in neat case, K-3, G and A. Per set...\$7.50

Separate filters, any of the above, 3 inches square cemented in B glass, each...\$2.50

Sundries

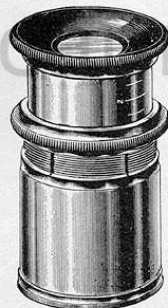
CONDENSING LENSES



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 our 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.

Size in Diameter	One Lens Unmounted	Pair of Lenses Mounted
4 1/2 inches	\$ 1 50	\$ 4 00
6 1/2 inches	3 00	8 50
8 inches	7 00	17 00
9 inches	9 00	22 50
10 inches	12 00	29 00
12 inches	24 00	54 00
14 inches	36 00	79 00

DARLOT FOCUSING GLASS



An invaluable help to fine focusing or in making lantern slides, copies or negatives for enlargements.

It is the standard focusing glass of the professional photographer, and is fitted with a fine achromatic double lens, which may be adjusted to fit any eyesight.

It is mounted in a sliding tube, which can be securely clamped when the correct position is found. The instrument is well made and works easily. The metal parts are brass, finely lacquered.

PRICE\$3 00

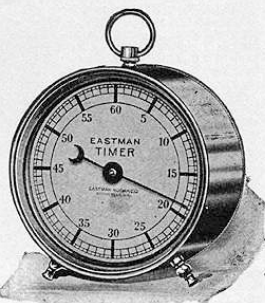
COOKE FOCUSING-MAGNIFIER



This draws out for use like a telescope, and is placed on the ground-glass of the camera to magnify the image while focusing. It closes for compactness, and has a screw adjustment to suit the user's eyesight. It facilitates accurate focusing, makes a cloth unnecessary, and often saves plates, especially in dull lights. "In workmanship it's like a Cooke Anstigmat."

Price, postpaid\$2 50

EASTMAN TIMER



For timing Gas-light or Bromide papers, Copies, Lantern Slides and all photographic exposures in minutes, seconds or half seconds. Indispensable to all users of Developing papers, as it insures uniform prints, also for tank developing.

Can be read at a glance across the exposing room or in the dim light of the dark room.

You'll wonder how you ever got along without it.

Price, each\$2 00

COOKE CIRCULAR LEVELS



Full Size.

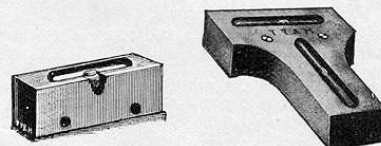
Full Size.

To project outside the camera.
No. 1 ... Finished Bright
No. 1B ... Finished Black

To lie flush with the outside.
No. 1F ... Finished Bright
No. 1FB ... Finished Black

Price, 75 Cents Each Postpaid

COOKE TUBULAR LEVELS



Single Tube Level.
1 in. x 3/4 in. x 3/4 in.

Double Tube Level.
1 1/4 in. x 1 in. x 1/4 in.

To be screwed to face or side of swing back.
No. 5 Brass\$1 00

No. 4 Brass\$1 50
No. 4a German Silver 1 75

BRASS FLANGES FOR BAUSCH & LOMB LENSES

Number	1	2	3	4	5	6	7	8	9	10	11
Diameter, inches	1 1/2	1 3/4	2	2 1/4	2 1/2	3	3 1/2	4	5	5 1/2	6
Price, each	\$0.50	.50	.75	1.00	1.00	1.25	1.50	1.75	2.00	2.50	3.00

GRAINED LEATHER CAPS FOR BAUSCH & LOMB LENSES

Number	1	2	3	4	5	7	8	9	10
Diam., in.	1 1/2	1 3/4	2 1/4	2 1/2	3 1/2	3 3/4	4 1/2	5 1/2	6
Price, each	\$0.40	.45	.50	.55	.60	.70	.80	.90	1.00

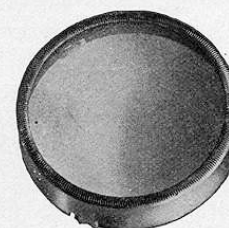
SUNDRIES

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., Inches	Price
0	7/8	\$1 50
1	1 1/16	1 50
2 for box cameras	1 50	1 50
3	1 1/16	1 50
4	1 1/2	1 50
5	1 3/4	2 00
6	2	2 25
7	2 1/4	2 50



No.	Diam., Inches	Price
8	2 1/2	\$3 00
9	2 3/4	3 25
10	3	3 50
11	3 1/4	4 00
12	3 1/2	4 50
13	4	5 25
14	4 1/2	6 00

WYNNE'S EXPOSURE METERS

An invaluable accessory for exposures on doubtful subjects. The dial revolves so as to expose a sensitive strip of paper to light. When the standard tint shown is matched by this sensitive paper, we adjust the revolving rings and read off exposure. Full directions and a table of plate speeds come with each meter. State whether you wish F values or Uniform System values.



Price
Meters, nickel plated .....\$2 50
Deadmatch Paper for refills 15



BEE METER

A pocket instrument for estimating exposures. Perfectly reliable.

Price

Bee Meters .....\$1 25
Refills 25

PRINTING GAUGE



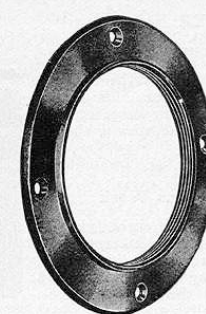
For Platinotype, Carbon, etc.

Invaluable for automatically gauging the correct exposure necessary for printing Platinotype, Carbon, Gum Bichromate, Ozotype.

Price\$0 30

COOKE FLANGES

These flanges possess important advantages. Their screws are formed within one to two thousandths of an inch above the normal sizes, and are thus freely interchangeable. A flange of this form is included with every Cooke lens not mounted in a between-lens shutter.



Diameter of Screw in Inches	Price	Diameter of Screw in Inches	Price
1 1/4	\$1 00	2 3/4	\$1 50
1 1/2	1 00	3	1 50
1 3/4	1 00	3 1/2	1 50
2	1 00	4	1 75
2 1/4	1 25	5	2 25
2 1/2	1 25	6	2 75

STANDARD ADAPTERS FOR COOKE LENSES

To carry lenses in flanges larger than their own

These adapters contain the improved facilities for engagement and release, with the advantage of holding all Cooke lenses with their diaphragm indexes in one position convenient for use. They are guaranteed interchangeable with other T. T. & H. lens fittings.

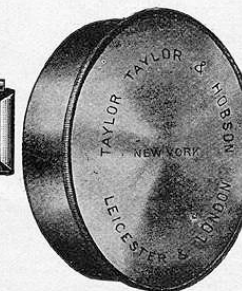


Price	INCHES	INCHES
Diam. Ex-ternal Screw	Diam. Ex-ternal Screw	Diam. Ex-ternal Screw
1 1/2	1 1/4	\$1 00
1 3/4	1 1/2	1 00
2	1 3/4	1 00
2 1/4	2	1 00
2 1/2	2 1/4	1 25
	2 1/2	1 25
	2 3/4	1 25
	3	1 50
	3 1/2	1 75
	4	2 25
	5	2 75

REAR DUST CAPS FOR COOKE LENSES

With Standard Screws

These caps are for covering the back glasses of lenses when not in use, to protect them from dust and injury. They are of bronzed metal. Having the standard screws they fit any Cooke lenses which have similar flange screws. When ordering, say what lenses the caps are to fit, as the depths vary.



Price
Diam. of Screw in Inch 1 1/4
Net.. \$1 00 \$1 00 \$1 00 \$1 00 \$1 25 \$1 25 \$1 50

Studio Shutters

PACKARD SHUTTER No. 5

For Time Exposures

This Shutter has four wings and is the same as the No. 6 below without the instantaneous attachment. It has the advantage of a very large opening in a very small shutter. Price includes bulb and tubing.

PACKARD SHUTTER No. 6

For Time and Instantaneous Work

This Shutter is the regular No. 5, embodying all its advantages 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. Price includes bulb and tubing.

A New Silent Studio Shutter

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.

Price and results considered, this is the best shutter on the market for professional photographers. Price includes bulb and tubing.

PACKARD-IDEAL SHUTTER No. 6

For Time and Instantaneous Exposures

This Shutter is 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. This change is quickly made from the outside, and the shutter requires no setting as it works automatically, setting itself after each exposure without opening the wings, and is always ready. At no time during an exposure is there any jar or vibration, and used as a "time" shutter, it is absolutely noiseless or silent in opening. Price includes bulb and tubing.

Sizes and Prices

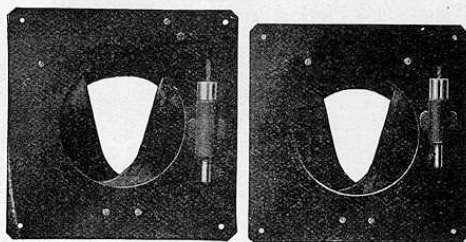
Dia. Opening Inches.	Outside Dimensions.	Price No. 5.	Price No. 6.
1 1/2	3 1/4 inches square	\$4 00	\$5 50
1 3/4	3 1/2 inches square	4 00	5 50
2	4 inches square	4 00	6 00
2 1/4	4 1/2 inches square	4 50	6 00
2 1/2	4 3/4 inches square	5 00	6 00
2 3/4	5 inches square	5 00	6 50
3	5 1/4 inches square	5 00	6 50
3 1/4	6 inches square	5 00	6 50
3 1/2	6 1/2 inches square	5 00	6 50
3 3/4	7 inches square	5 00	7 00
4	7 1/2 inches square	5 50	7 00
4 1/2	8 inches square	6 00	8 00
5	8 1/2 inches square	6 50	9 00

The Following Sizes Made to Order in No. 5 Only

Dia. Opening Inches.	Outside Dimensions.	Price.
5 1/2	9 1/2 inches square	\$ 8 00
6	10 1/4 inches square	9 00
6 1/2	11 inches square	10 00
7	11 3/4 inches square	11 00
8	13 1/4 inches square	12 00

PACKARD-IDEAL SHUTTER No. 5 AND 6

For Time Exposures

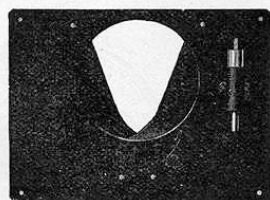


No. 5

No. 6

PACKARD SHUTTER No. 1

For Time Exposures



No. 1

This Shutter opens so as to light the drapery and foreground most. The smallest sizes are sufficiently rapid for any outdoor work, except moving objects. Price with bulb and tubingeach, \$4 00

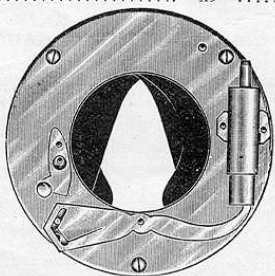
Sizes

Dia. Opening Inches.	Outside Dimensions Inches.
1 1/2	3 x 3 1/2
1 3/4	3 x 3 3/4
2	3 1/2 x 4 1/2
2 1/4	4 x 5 1/4
2 1/2	4 1/2 x 5 3/4
2 3/4	4 3/4 x 6
3	5 x 7
3 1/4	5 1/2 x 7 1/2
3 1/2	6 x 8
3 3/4	6 x 8 1/4
4	6 1/2 x 8 1/2
4 1/2	7 x 9

LOW VIEW SHUTTER

No. 10

For time and instantaneous work fits on the front hood of Lens. Give diameter measure when ordering.

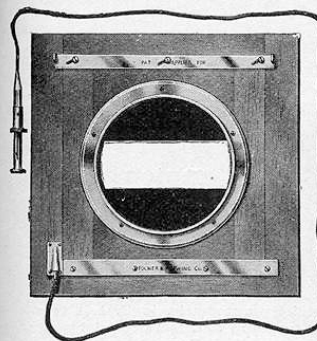


Price, each
\$6.00

1 1/2-inch opening	3 3/4-inch round
1 3/4-inch opening	4 1/4-inch round
2-inch opening	4 3/4-inch round
2 1/4-inch opening	5-inch round
2 1/2-inch opening	5 1/2-inch round
2 3/4-inch opening	6-inch round

THE AUTO STUDIO SHUTTER

Patent Applied For.



The Auto Studio Shutter is a curtain shutter, and the curtain principle is the correct one in shutter construction. The shutter works back of the lens, and is silent. It is so constructed that it opens from the center and closes to the center, giving a perfect uniform exposure of the plate. It requires no setting. The shutter is automatic in its action. It is always ready for use, and being simple in construction and free from complicated mechanism it will not easily get out of order. A mere pressure on the cable release opens the shutter and by another movement the shutter automatically closes. An ingenious device on the release permits the shutter being locked open for focusing for time exposures, and by merely pressing on the release it will return the shutter to its normal position for slow instantaneous work.

The Auto Studio Shutter fits in the camera as a substitute for a lens board, having a separate lens board fitted to the shutter, which enables the user to have a series of lenses fitted to these boards, which interchange in the shutter, thus allowing any number of lenses to be used with one shutter.

The Auto Studio Shutter does away with the old fashioned pneumatic release, it being provided with a new and ingenious cable release, easy to work and reliable. The release doesn't get out of order, it is dependable, doesn't fail to operate at the moment when it is expected to. There is no rubber tubing and bulb to be continually replaced. The cable release operates the shutter by a positive action, the inner cable being made of fine-braided steel wire, with the outer casing closely wound brass wire, and the whole covered with a braid, affords one of the most permanent shutter releases ever invented.

This shutter is noiseless in its operation, and doesn't stir up dust inside of the camera. The Auto Studio Shutter is substantially made, the front being of polished mahogany.

	Outside Measurement.	Opening.	Prices		Outside Measurement.	Opening.	
No. 1.....	9x9	4 inch.	\$ 8.00	No. 3.....	10x10	5 inch.	9.00
No. 2.....	9x9	5 inch.	9.00	No. 4.....	10x10	6 inch.	12.00

GRAFLEX FOCAL PLANE SHUTTER

Patent Applied For.

For ultra rapid photography, the Graflex Shutter presents numerous advantages over those working in front of, between or behind the lens. Its position immediately in front of the sensitive plate or film insures the distribution of light with equal intensity upon every portion of the sensitive surface. In addition, the principle upon which it is constructed not only gives the maximum in speed, but at the same time the plate receives a greater volume of light in a given time than with any other type of shutter.

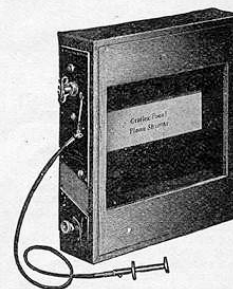
To secure successful results of rapidly moving objects, such as horse and automobile races, railroad trains, foot ball games, base ball contests, etc., there is no style of shutter that can equal the Graflex. While constructed primarily for high speed work, it is also adapted for slow automatic exposures and time exposures of any duration. By simply turning a small dial the speed can be varied from "time" to one one-thousandth part of a second. The maximum speed of an ordinary shutter placed at the diaphragm of a lens does not exceed one one-hundredth of a second, and many shutters of this class do not give shorter exposures than one-fiftieth of a second.

The curtain of the Graflex Shutter is made on an entirely new principle—in one long piece, with apertures ranging from full openings to 1/4 of an inch. This insures an absolutely uniform aperture for the admission of light, and not a wedged shaped opening, as is so often the case with shutters having a double adjustable curtain.

The Graflex Shutter is instantly set for any exposure by a half turn of a winding key. Dials on the outside indicate both the size of curtain aperture and the tension of roller spring controlling the speed.

The Graflex Shutter is as easy to operate as an ordinary shutter, and can be adapted to all makes of view and folding plate cameras. We fit it for the Century without extra charge, but when ordered for other cameras we add cost of adapting.

	Price		
4x5	\$17.00	5x7	\$18.00
		6 1/2 x 8 1/2	\$20.00
		8x10	\$23.00



Shutters

Bausch & Lomb Volute Shutter

Theoretically and practically the proper place for a shutter is at the diaphragm point of the lens. An Iris Diaphragm, opening and closing at that point, gives the maximum illumination with the minimum motion, absolutely uniform exposure, and an increase in the depth of focus, covering power and definition of the lens, with no distortion of the image, the entire picture impressing itself upon the plate from the moment the shutter begins to open until it closes.



Volute represents the highest type of this form of shutter. It is the most rapid, compact, convenient, dust proof, durable and elegant Iris Diaphragm Shutter ever offered. It gives bulb and time exposures and works automatically at varying speeds very closely approximating from 3 seconds to 1-150, 1-100 and 1-75 second respectively in Nos. 1, 2 and 3.

All speeds are controlled by our patent pneumatic retarding device. An exposure of 1-150th second is fast enough for athletes, race horses, express trains and the like in motion with very good sized images. There is no other Iris Diaphragm Shutter giving equal speed.

The shutter is set by simply moving the pointer at the top. Any size opening, from pin hole to largest stop, is obtained by placing the lower pointer opposite the stop number desired. No extra stops or diaphragms are needed.

Prices

No.	Will take Lenses with opening of	Automatic exposure	Price Fitted to lens of our manufacture	Price Fitted to lens of other manufacture
1	24 mm.	3 sec. to 1-150 sec.	\$17 00	\$18 00
2	36 mm.	3 sec. to 1-100 sec.	18 50	20 00
3	52 mm.	3 sec. to 1-75 sec.	20 00	22 00

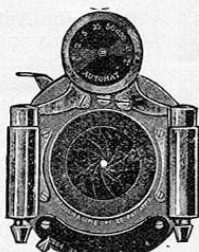
Autex Shutter

All working parts of the AUTEX are concealed within the case and are protected from dust and injury. It is made in four sizes and loses nothing in reliability, speed or ease of operation on account of being automatic in action. The various exposures are governed by a lever at the top of the shutter, and, in addition to "Time" and "Bulb" it gives three fast and three slow instantaneous exposures.

The Autex has iris diaphragm, finger and bulb release all levers polished nickel, case lacquered brass and plates black enamel with white letters.



No.	Light aperture	Price
1	1/8 in.	\$ 8 00
2	1/4 in.	10 00
3	1/2 in.	12 00
4	3/4 in.	14 00

Bausch & Lomb
Automat
Shutter

This shutter is strictly automatic, in that it is always set ready for exposure and is released by simple pressure of the pneumatic bulb or finger release.

The speed can be made to vary from approximately 1 second to about 1-100th second. It has time device by which shutter may be opened and closed by two successive pressures and bulb device by which shutter may be kept open with one pressure. Speeds are controlled by our patent retarding device. An Iris Diaphragm gives any size stop, the stop values being read off on a scale graduated specially for the particular lens used with the shutter.

No.	Will take lenses with opening of	Fitted to lenses of our manufacture	Price	Fitted to lenses of other manufacture
1	23 mm.	\$10 00		\$11 00
2	30 mm.	12 00		13 00
3	40 mm.	14 00		15 00

Ilex Shutter

ACME



Its highest Speed is 1/300 second down to time exposure, it has star shaped opening, 4 blades, thus giving great illumination. Unlike other shutters, its speed is regulated by a motor and wheel adjustment which is constant on all speeds.

It has iris diaphragm and is made in the following sizes:

No.	Light Aperture	Lens Opening	Outside Diameter	Price
1	3/8 in.	1 1/8 in.	2 1/2 in.	\$14 00
2	1 in.	1 1/2 in.	2 3/4 in.	16 00
3	1 1/8 in.	1 3/4 in.	3 in.	18 00
4	1 1/2 in.	2 in.	3 1/2 in.	20 00

Shutters

COMPOUND SHUTTER



The Compound shutter is an automatic and setting shutter combined, in which the adjustments are prevented from interfering with each other by an ingenious locking device. Both bulb and time exposures can be made automatically while speeds of from one second to the maximum speed indicated in the price list can be given automatically when the shutter is set.

Price List

Number	Opening inches	Maximum Speed Seconds	Price Fitted to Bausch & Lomb Lenses	Price Fitted to Lenses of other Manufacture
0	1 1/2	1/250	\$12 00	\$13 00
1	1 1/4	1/200	14 50	15 50
2	1 1/2	1/150	16 25	17 75
3	1 3/4	1/100	20 00	22 00
4	2	1/100	22 00	24 00
0 Stereo	7/8	1/150	22 00	24 00
1 Stereo	1	1/100	27 00	29 00

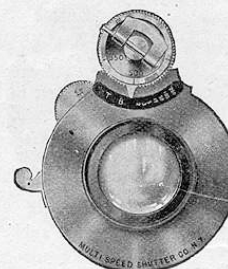
OPTIMO



Many attempts have been made in the past few years to produce a thoroughly satisfactory between the lens shutter fast enough to photograph successfully rapidly moving objects, but simple, compact and reliable. The five leaves revolve in making the exposure, one end passing from the opening and the other end taking its place, which makes high speed possible, and in opening and closing it shows a star-shaped aperture the points of the star reaching to the edges of the opening, thus giving the greatest possible illumination to the plate. Besides "bulb and time" the Optimo has a range of automatically controlled exposures ranging from one second to 1-300 of a second.

No.	Light aperture	Price
1	3/4 in.	\$14 00
1a	7/8 in.	15 00
2	1 in.	16 00
3	1 1/8 in.	18 00
4	1 1/4 in.	20 00

MULTI-SPEED SHUTTER, JUNIOR



Extreme Speed—1-700 of a Second.
Designed for roll film cameras, but just as efficient for plate cameras.

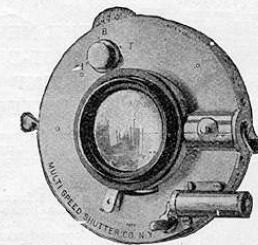
Time, bulb and slow instantaneous exposures from 1/2 second to 1-200 on lowest tension, 1-350 and 1-500 on the highest tensions.

Price, \$15.00.

Lens mounting, \$1.50.

Special shutters for 6 1/2 inch or 6 7/8 inch lenses (3A Kodaks) ready to receive lenses, \$16.00.

MULTI-SPEED SHUTTER



Mounted between Lenses 1-2,000 of a second as well as time exposures.

The prices of Shutters are as follows:

Small Shutter, Regular	Aper. 7/8 in.	\$23 50
Small Shutter, Professional	Aper. 7/8 in.	23 50
Small Shutter, Reflecting	Aper. 7/8 in.	28 00

For 3 1/4 x 4 1/4, 3 1/2 x 5 1/2, 4 x 5 Kodaks and Cameras and 5x7 Cameras if 7 in. lenses f.6.3 and 6.8 are used.

Medium Shutter, Regular	Aper. 1 1/4 in.	\$25 00
Medium Shutter, Professional	Aper. 1 1/4 in.	25 00
Medium Shutter, Reflecting	Aper. 1 1/4 in.	30 00

For 4a Kodak, 5x7, 6 1/2 x 8 1/2 Cameras.

Lens Mounting, from \$1.50 to \$2.50.

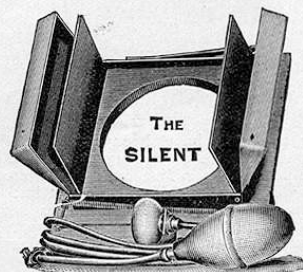
Extra charge for special fittings.

The New Silent Shutter The Iris "Studio" Shutter

It's Perfection, That's All.

You know what it means to have a shutter that will open with absolutely NO SOUND.

Absolutely noiseless in opening is one of the valuable characteristics of this shutter. Every photographer who has experienced repeated failures owing to the "click" of his shutter in opening, causing his subject to look toward the lens at the vital moment

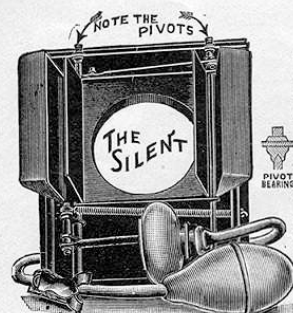


of exposure, or some member of a group, or an individual sitter to move just at the wrong time, will instantly appreciate the great value of the "Silent" shutter, which will enable him to make exposure while his subject is unconscious of it.

The "Silent" is extremely simple, not likely to get out of order and the most compact of any professional shutter made; the 2½-inch opening being but 5¼ x 5¾ outside.

● Made in the following sizes: 2, 2½, 3, 3½ and 4 inches, \$5.00; 4½-inch, \$6.00; 5-inch, \$7.00; 5½-inch, \$8.00; 6-inch, \$9.00.

Extra bulb and tube, \$0.75.



THE NEW PIVOT-BEARING SILENT SHUTTER

Our improved, patented pivot-bearing shutter is, without a doubt, the world's greatest studio shutter. It is made with a steel frame, in which conical brass bearings are set. These bearings are threaded at one end (as indicated by small arrows in cut) so that any wear can be taken up at any time, thus eliminating all

These in connection with our patented Cupped Air Cushions make it an

ABSOLUTELY NOISELESS SHUTTER

Speed about ¼ second and up. Provided with bulb, 6 feet of tubing and "shut-off."

Open'g	Outside	Open'g	Outside	
1 In.	2 x 2½	4 In.	6 x 6½	\$ 7 00
1½ "	2½ x 3½	4½ "	6½ x 7½	8 00
2 "	3½ x 4	5 "	7 x 7½	9 00
2½ "	4 x 4½	5½ "	7½ x 7½	10 00
3 "	4½ x 5	6 "	8 x 8½	11 00
3½ "	5 x 5½	7 "	9 x 9½	12 00
		8 "	10 x 10½	13 00

ANTI-NOIS RELEASE

For all Small Shutters, each.....\$0.75

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, 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 attachment. Style B is a

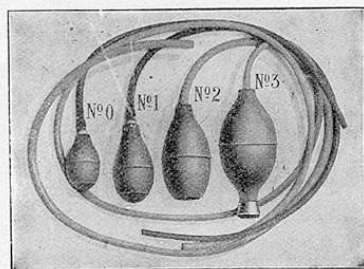


between the lens shutter and is handsomely finished in brass with transparent lacquer. It is made primarily for use with portrait lenses in barrel in place of the Iris diaphragm, special fitting is needed. The shutter itself acts as a diaphragm and can be set at any desired opening and also at full aperture for focusing purposes.

Style A fits back of any lens without fitting.

		Price List			
		Style B will fit portrait Lenses as follows:		Price	
No.	Outside Diam. in.	Light Open- ing in.	Series A	Royal	Style B Shutter
1	3½	2 1-16	No. 3	.....	\$ 6 00
2	4½	2 7-16	No. 4	.....	7 00
3	4½	2 15-16	No. 5	.....	8 00
4	5½	3½	No. 2	.....	10 00
5	6½	4½	No. 3	.....	12 00

Camera Bulbs and Tubing



Nos. 0, 1 and 2 are made of red rubber; No. 3 of white rubber.

No.	Size	Price
No. 0, for small pocket cameras, 6 in. tubing...		\$0.20
No. 1, for larger pocket cameras, 6 in. tubing...		.25
No. 2, for larger cameras, 12 in. tubing.....		.35
No. 3, large white bulb, 36 in. tubing.....		.50
No. 3, bulb only.....		.35
Red tubing, per foot.....		.06
White tubing, per foot.....		.05
White tubing, ¼ inch, for washing boxes and tanks, per foot.....		.20

The Kilmer Bulb Outfit

Fitted with a perforated brass rod in center and 8 feet of tubing. The rod extends through both necks of the bulb, one end forming the intake on which the thumb rests.

Price\$0.75

The Century Universal Studio Outfit

In designing and constructing the Century Universal Studio Outfit, we have produced an equipment that embodies the highest degree of efficiency with elegance of design and richness of finish.

THE CAMERA.—The Camera is made of fine selected mahogany and cherry, highly polished, the metal work being lacquered brass. It is provided with vertical and horizontal swings operated by a new quick acting screw.

The focusing adjustments are identical with those on the Century Grand Camera described on page 36.

The Automatic Cabinet Attachment is readily put in place by swinging the focusing screen around at the side of the camera, a double action hinge allowing the screen to be swung entirely out of the way.

The Universal Holder and the Curtain Slide Cabinet Holder, which form a part of the Attachment, are ebonized, adding richness and dignity to the outfit.

The Century Automatic Attachment is the same as supplied with the Century Grand Studio Outfit.

THE STAND.—In child portraiture this stand is indispensable, as the platform may be elevated to 49 inches or depressed to within 14 inches of the floor. This brings the axis of the lens into correct relation to the position of the subject and eliminates the incorrect perspective and false drawing obtained with stands of the ordinary sort. The back of the stand may be raised and lowered by turning a conveniently located handle. The tilting device is positive in its action, self-locking, and does not jar the camera upon being operated.

The platform 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 camera carried. A jack for locking the stand in position on the floor, and noiseless rubber-tired casters are included.

Century Grand Portrait Camera No. 2, 8x10. Focal capacity, 25 inches. Size of Lens Board, 9x9 inches.

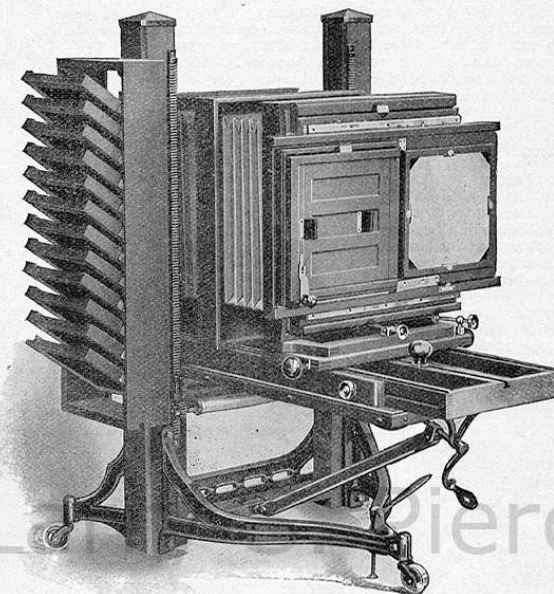
Century Grand Portrait Camera No. 2, 11x14. Focal capacity, 43 inches. Size of Lens Board 10x10 inches.

PRICE

	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, 4¼x6½ or 4¼x6½, size optional), Century Semi-Centennial Stand with adjustable rack to carry twelve plate holders	\$75 00	\$105 00
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		112 50

When Furnished Separately

Grand Studio Camera, with Curtain Holder.....	37 00	73 00
Century Semi-Centennial Stand.....	25 00	27 50
Cabinet Automatic Attachment with one holder (5x7, 4¼x6½ or 4¼x6½, size optional as above).....	19 00	22 00
Extra Curtain Slide Holder for Cabinet Attachment, Hard Wood, Ebonized finish. . .	2 50	2 50
Automatic Attachment for 8x10 holder with one 8x10 Curtain Holder.....		29 50
Extra 8x10 Curtain Holder, Hard Wood, Ebonized finish		5 50
Extra Century Universal Holder.....	10 00	20 00
Rack, grooved to carry twelve cabinet holders.....	2 00	2 00



11x14 Universal Studio Outfit With 8x10 Automatic Attachment in Position.

The Century Grand Studio Outfit

THE CAMERA.—The Camera furnished with this outfit is the No. 2 Century Grand Portrait. This instrument is made of the finest selected mahogany and cherry; highly polished, the metal work being of lacquered brass. Both vertical and horizontal swings are provided, quickly operated by means of a pivot rack and pinion movement.

Focusing is rendered particularly easy by the employment of two large focusing knobs, one at either side of the camera, while the draw knob in the center locks the camera back in the required position. Another feature that adds much to the ease of operation is the Century method of supporting the camera back on small "V" metal rollers. This permits the back to be moved smoothly and easily without friction.

CENTURY AUTOMATIC CABINET ATTACHMENT.—This attachment is entirely different in design from any other, easier to operate, smoother in manipulation, lighter, more compact and positive in action.

The attachment consists of a wooden frame to which is adjusted a sliding carriage of sufficient length to accommodate a reversible curtain slide holder at one end and a ground glass screen at the other. One movement shifts the ground glass, places the holder in the exact position for exposure and withdraws the slide. Reversing the movement closes the curtain slide and places the ground glass screen in focusing position. Pressing a spring at the top of the sliding carriage adjusts the attachment so that two pictures may be made on one plate. The attachment will be supplied to take either $4\frac{1}{4} \times 6\frac{1}{2}$, $4\frac{3}{4} \times 6\frac{1}{2}$, or 5×7 holders for either the 8×10 or 11×14 camera.

For the 11×14 camera, a new attachment may be fitted, taking 8×10 plates. This attachment is reversible and permits of two exposures on the 8×10 plate. The same holder may also be adapted for $6\frac{1}{2} \times 8\frac{1}{2}$ plates; if this is desired, it should be so specified when ordering.

PLATE HOLDER.—The Century Universal Holder with curtain slide will take all sizes of plates from the full capacity of the camera down. In addition to the Universal Holder, one Curtain Slide Holder (5×7 , $4\frac{1}{4} \times 6\frac{1}{2}$, or $4\frac{3}{4} \times 6\frac{1}{2}$, size optional) is supplied. Both holders are supplied in ebonized finish.

CAMERA STAND.—The Century Grand Outfit includes the No. 2 Century Stand. This stand is entirely new in design. The top of the stand is raised or lowered by means of a direct drive adjusting wheel. One revolution of the wheel is sufficient to raise or lower the camera three full inches. The tilting device for raising the back of the camera is marvelously simple and rapid in action. The clamping of the steel rod supporting the top is automatic. A light pressure of the thumb is all that is necessary when the top is to be lowered. The stand is fitted with rubber bound casters, and camera stand jack for holding stand rigid during exposure. All metal parts beautifully oxidized. A mahogany rack, grooved to carry ten cabinet holders is conveniently attached to side of stand.

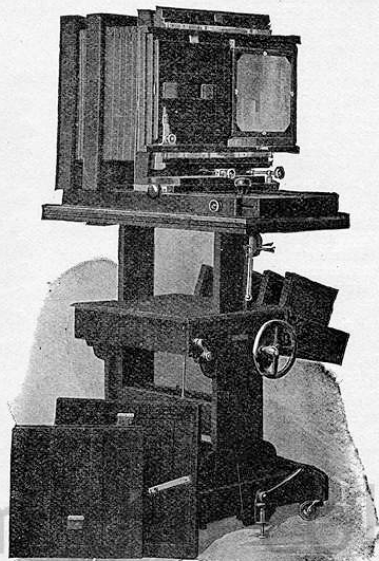
Century Grand Portrait Camera No. 2, 8×10 . Focal capacity, 25 inches. Size of lens board, 9×9 inches.
Century Grand Portrait Camera No. 2, 11×14 . Focal capacity, 43 inches. Size of lens board, 10×10 inches.

PRICE

	8×10	11×14
Century Grand Studio Outfit, complete, including Grand Portrait Camera No. 2 with Universal Holder, Automatic Cabinet Attachment and one Curtain Holder (5×7 , $4\frac{1}{4} \times 6\frac{1}{2}$, or $4\frac{3}{4} \times 6\frac{1}{2}$, size optional), No. 2 Camera Stand with adjustable rack to carry ten plate holders.....	\$77 50	\$107 50
Century Grand Studio Outfit, complete, including Grand portrait Camera No. 2 with Universal Holder, Automatic Attachment for 8×10 Holders and one 8×10 Curtain Holder, No. 2 Camera Stand.....		115 00

When Furnished Separately

Grand Studio Camera No. 2 only, with Curtain Holder	37 00	73 00
Century Studio Stand No. 2.....	27 50	29 00
Automatic Cabinet Attachment with one holder (5×7 , $4\frac{1}{4} \times 6\frac{1}{2}$, or $4\frac{3}{4} \times 6\frac{1}{2}$, size optional as above	19 00	22 00
Extra Curtain Slide Holder for Cabinet Attachment, Hard Wood Ebonized finish.....	2 50	2 50
Automatic Attachment for 8×10 holder with one 8×10 Curtain Holder		29 50
Extra 8×10 Curtain Holder, Hard Wood Ebonized finish		5 50
Extra Century-Universal Holder.....	10 00	20 00
Rack, grooved to carry ten cabinet holders.....	2 00	2 00



11x14 Century Grand Studio Outfit with 8x10 Automatic Attachment in Position

Century Studio Outfit No. 1

THE CAMERA.—Unsurpassed in mechanical ingenuity and simplicity, this outfit will instantly appeal to the up-to-date professional. All adjustments may be made from behind the camera, the attachments working silently and quickly, an important feature in a busy studio.

The camera supplied with this outfit is the Century Portrait Camera No. 1.

This instrument is made throughout of selected, well seasoned mahogany and cherry. It is of superior workmanship, the wood parts being richly finished, and all the metal parts polished and lacquered brass. Both horizontal and vertical swings are provided, operated by a quick acting screw. Focusing is rendered particularly easy by a large knob at either side of the camera. A locking device in the center of the camera bed holds the back in any desired position.

CENTURY AUTOMATIC CABINET ATTACHMENT.

This is pre-eminently the attachment for the busy operator, incorporating ease, smoothness and convenience in operation.

The attachment consists of a wooden frame, to which is adjusted a sliding carriage, of sufficient length to accommodate a reversible curtain slide holder at one end, and a ground glass screen at the other. After focusing, the carriage is moved from left to right by simply pushing a knob at the bottom, the focusing screen being thus replaced by the plate holder, the curtain slide by the same movement being automatically withdrawn. One movement shifts the ground glass, places the holder in exact position for the exposure and draws the slide. Reversing the movement closes the curtain slide and adjusts the ground glass screen in focusing position. When desired, two exposures may be made on one plate. Holders to take either $4\frac{1}{4} \times 6\frac{1}{2}$, $4\frac{3}{4} \times 6\frac{1}{2}$, or 5×7 plates are supplied.

PLATE HOLDER.—The camera is supplied with the Century Universal Holder—an adjustable holder permitting the use of plates, full size of camera and under.

In addition to the Universal Holder, one Curtain Slide Holder (5×7 , $4\frac{1}{4} \times 6\frac{1}{2}$, $4\frac{3}{4} \times 6\frac{1}{2}$, size optional) is supplied. Both holders are finished in black and harmonize with camera and stand.

CAMERA STAND.—The No. 1 Century Studio Stand has been radically improved and simplified. The platform is raised and lowered by means of a direct drive adjusting wheel, placed in a convenient position at the rear of the stand. One revolution of the wheel will raise or lower the camera three full inches. The tilting device for the top of the stand is simplicity itself. The clamping of the small rod, which supports the top, is automatic when the top is raised, and to lower it, a slight pressure of the thumb is all that is necessary. Rubber tired casters are provided; also a camera stand jack, which holds the stand rigid during exposure. Top of stand covered with superior green felt, all metal parts oxidized. A rack grooved to carry ten cabinet holders, is conveniently attached to side of stand.

Century Portrait Camera No. 1, 8×10 . Focal capacity, 25 inches. Size of lens board, 9×9 inches.

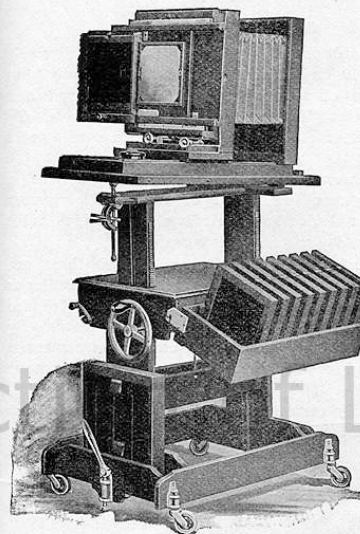
Century Portrait Camera No. 1, 11×14 . Focal capacity, 43 inches. Size of lens board, 10×10 inches.

PRICE

	8×10	11×14
Century Studio Outfit No. 1, including Century Portrait Camera No. 1, and Universal Holder, Automatic Cabinet Attachment and one Curtain Holder (5×7 , $4\frac{1}{4} \times 6\frac{1}{2}$, or $4\frac{3}{4} \times 6\frac{1}{2}$, No. 1 Century Camera Stand and Holder Rack to carry ten plate holders.....	\$67 50	\$95 00

When Furnished Separately

Century Studio Camera No. 1.....	32 50	65 00
Century Camera Stand No. 1.....	22 00	23 50
Century Automatic Cabinet Attachment and Curtain Holder (size optional as above).....	16 50	19 50
Extra Curtain Slide Holders, for Cabinet Attachment, Regular	2 00	2 00
Extra Curtain Slide Holders, for Cabinet Attachment, Hard Wood, Ebonized finish.....	2 50	2 50
Extra Century-Universal Holders, each.....	10 00	20 00
Holder Rack, grooved to carry twelve plate holders.....	1 50	1 50



8x10 Century Studio Outfit No. 1 with 5x7 Automatic Attachment in Position

The Century Studio Outfit No. 3

The idea of meeting every possible requirement in the line of Studio Apparatus has prompted the introduction of several new Studio outfits. These, there is every reason to feel, will find the same quick and hearty recognition which the Century No. 1 and the Century Grand Outfits received.

In the Century Studio Outfit No. 3 there will be found the same strict adherence to the established principle of Century quality, which means that in the production of low priced outfits the consideration of quality has by no means been lost sight of.

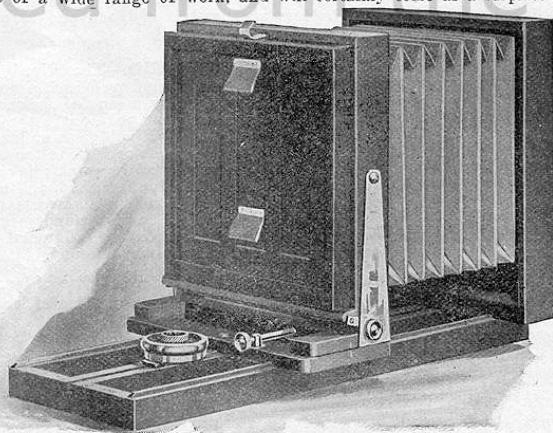
CAMERA

The No. 3 Studio Outfit includes the new No. 3 8x10 Portrait Camera. This new 8x10 Camera differs entirely from anything in this line heretofore offered and embodies every good and essential feature which long experience has proven desirable. To those to whom the matter of space is an item, its compactness will at once appeal.

It has an entirely new rack and pinion focusing device, a most convenient arrangement permitting of the finest and most accurate focusing. This device has a binding screw which holds the camera in any desired place during exposure.

Vertical and horizontal swings are provided and these are entirely new as applied to this class of apparatus. The holder is made with our improved light proof curtain and is fitted for 8x10 plates, is reversible, and is also adapted for 5x7 plates. By adding kits, smaller plates may likewise be used. The camera is made of mahogany and cherry, with an exceptionally superior rubbed finish.

This camera permits of a wide range of work, and will certainly come as a surprise to many as offering so much for so little.



Century No. 3 Studio Camera
CAMERA STAND

The Stand is the Century No. 3, made of hard wood 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 oxydized. The Stand bears throughout every evidence of careful workmanship.

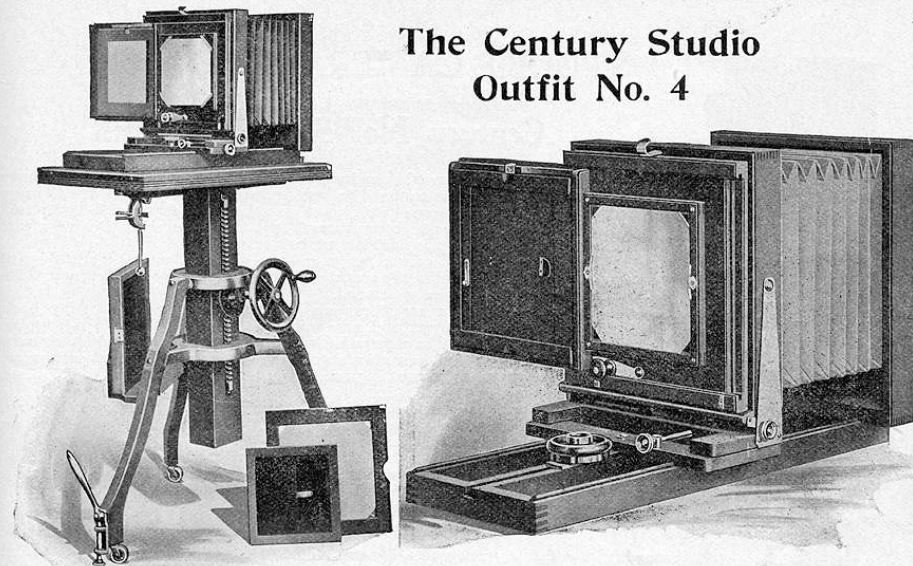
Prices 8x10

Century Studio Outfit No. 3, including Portrait Camera No. 3, with Curtain Holder, and No. 3 Century Stand\$30 00

When Furnished Separately

Century Studio Camera No. 3, with Curtain Holder..... 25 00
Century Camera Stand No. 3..... 8 00
Extra No. 3 Century Studio Holders, each..... 5 00

The Century Studio Outfit No. 4



Century No. 4 Studio Camera

Camera Stand

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.

Camera

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 moved 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.

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 blighted. 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.

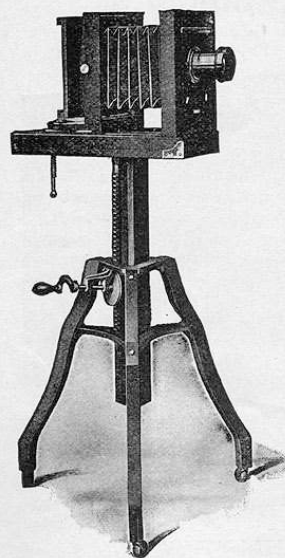
The stand is made of hardwood, mahogany stained, and all metal parts are oxydized. The top is supplied with the Century Automatic Tilting Device and is covered with felt. A plate holder rack is attached in a convenient position.

Prices

8x10
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.....\$45 00

When Furnished Separately

Century Studio Camera No. 4 with Curtain Holder 28 00
Century Camera Stand No. 4..... 12 00
Century Cabinet Attachment No. 4..... 10 00
Extra No. 4 Century Studio Holder..... 5 50
Extra Curtain Slide Holders for Cabinet Attachment 2 50



STUDIO CAMERAS

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 of 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 wood.

Camera.—A 5 x 7 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 5 x 7 double plate holders. An automatic locking arrangement secures the back in three positions, permitting one, two or four exposures on a 5 x 7 plate. Size of lens board is 6 3/4 x 6 3/4 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 hard wood, 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.

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 in.

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 5 x 7 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.

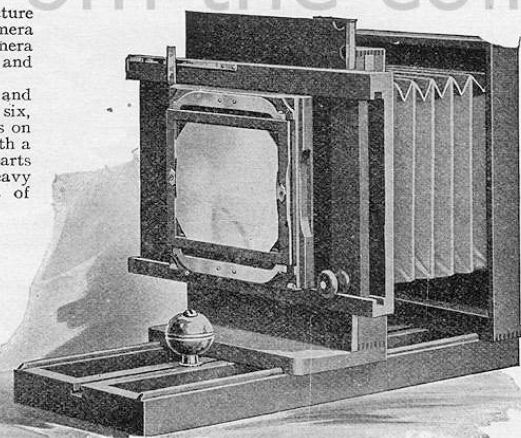
Portrait Lens, and Packard Shutter, leaves nothing to be desired in the line of a complete penny picture outfit.

The specific feature of this outfit is the new spacing device, which consists of detachable rods with appropriate 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, 6 1/2 x 6 1/2 in. Will accommodate most compact shutters.

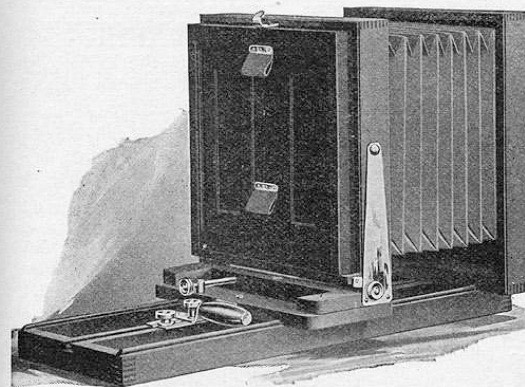
PRICE

Century Penny Picture Camera, Reversible Back, including full set of diaphragm kits and one 5 x 7 Century View Plate Holder, for 1 to 24 Photos on 5 x 7 Plate.....	\$22.50
Extra 5 x 7 Century View Plate Holders, each.....	1.00
Portrait Lens, size C, 5 x 7.....	22.50
Packard Shutter.....	5.00



STUDIO CAMERAS

Century Studio Camera No. 6



An inexpensive, well made, practical camera, built for utility. It is neatly finished, and will last a long time even under trying conditions.

They have all necessary attachments, a double swing back movement operated by rack and pinion, a lever attachment for fine focusing, a detachable ground glass, and a curtain slide plate holder.

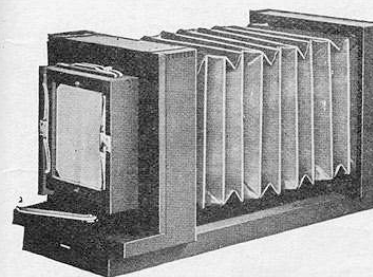
The curtain holder contains reversible kits, for horizontal or vertical pictures at will. The kit openings are 6 1/2 x 8 1/2, 5 x 7 and 4 x 5. The bellows is made of rubber.

The cabinet attachment supplied for Century No. 4 Studio Camera may be fitted to this camera, interchanging with the ground-glass frame and 8 x 10 holder.

PRICE

Century Studio Camera No. 6, with holder.....	\$23.00
Century Cabinet Attachment No. 4 and Curtain Holder.....	10.00
Extra Curtain Slide Holders, 8 x 10.....	5.00
Extra Curtain Holders, for Cabinet Attachment.....	2.50

R. O. C. Post Card Camera



A camera peculiarly adapted to post-card conditions. It has a leather bellows and is strongly made of hard wood with an oil finish. Each camera carries a reversible back for 5 x 7, 4 x 5, 3 1/4 x 5 1/2, or 3 1/4 x 4 1/4 plates as ordered. Extra reversible backs may be supplied if desired.

This is new field for photographic activity. There is much trade to be had even in the country towns if the photographer will add one of these outfits to his equipment. By a judicious selection of comic foregrounds, many novel ideas may be worked in the post card line. The enormous sale of post cards at the Jersey coast resorts should be an indication of the possibilities of the post card. The outlay of money necessary to fit up such a place is small and no great risks are taken in adding this camera to the photographer's equipment.

Aside from quality and price there is not a great deal that can be said about an instrument of this type, as it has no complicated adjustments or unusual features. But—the appearance of the camera used for post card work has a good deal to do with the price you can demand for your work. There is a good profit in good post cards, and your patrons will without doubt be influenced regarding the quality of your work by the appearance of the instrument you use.

The new camera sells for only \$12.00, yet it is of the most substantial construction and well finished, having the appearance of an instrument selling for a good deal more money.

The R.O.C. is supplied with Reversible Back either 3 1/4 x 4 1/4, 3 1/4 x 5 1/2, 4 x 5 or 5 x 7 (size optional) and Double Plate Holder.

PRICE

R.O.C. Post Card Camera.....	\$12.00
R.O.C. Post Card Camera Portrait Lens 4 x 5.....	24.00
R.O.C. Post Card Camera Portrait Lens 5 x 7.....	34.50
Extra Reversible Backs, 3 1/4 x 4 1/4, 3 1/4 x 5 1/2 or 4 x 5.....	2.50
Extra Reversible Back, 5 x 7.....	3.00
Extra Double Plate Holders, 3 1/4 x 4 1/4, 3 1/4 x 5 1/2 or 4 x 5.....	.50
Extra Double Plate Holders, 5 x 7.....	.70
Century Camera Stand, No. 6 (with casters).....	6.75

Century Studio Outfit No. 7

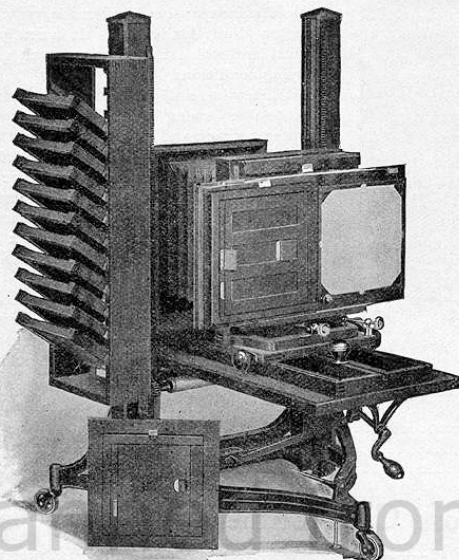
The Century Studio Outfit No. 7 closely parallels the 8x10 Century Universal Studio Outfit, the camera and stand being identical with the equipment supplied with the latter, with the exception that no swinging ground glass frame is included with the camera. The No. 7 Outfit also dispenses with the heavy Universal Holder and Kits, as the 8x10 sliding ground glass carriage permits the use of light weight 8x10 Curtain Slide Holder. This ground glass carriage does not operate automatically, as does the attachment supplied with the Universal Outfit. After focusing on the ground glass panel the carriage is moved to the right, which brings the plate holder into position. With this outfit an adapting frame is included, which permits the use of 5x7 Curtain Slide Holders in the 8x10 sliding ground glass carriage.

Plates may be placed in the 8x10 or 5x7 holders in either vertical or horizontal position, and the holders may be reversed in the attachment. A catch on the top of the ground glass carriage enables the operator to make two exposures on either 5x7 or 8x10 plates when placed in the holder in a horizontal position.

The stand supplied with the No. 7 Studio Outfit is the new No. 1 Semi-Centennial Stand which works smoothly and noiselessly. This stand is equipped with rubber tired casters and jack for locking the stand in any desired position to the floor.

The stand is the regular 8x10 Semi-Centennial Stand as supplied with the Century Universal Outfit. A rack to carry 5x7 curtain slide holders is supplied with this outfit.

The Century Studio Outfit No. 7 is, in every feature, fully up to the Century standard of quality, and will prove a handsome and practical addition to any studio.

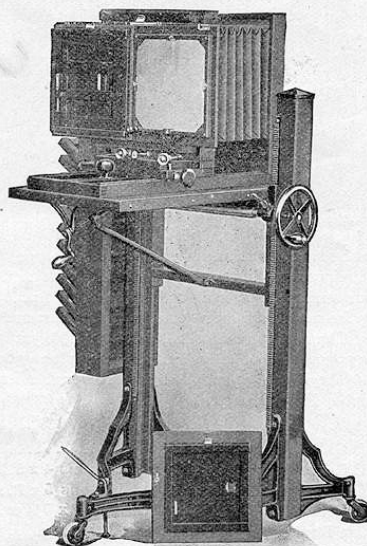


PRICE

Century Studio Outfit No. 7 complete consists of an 8x10 Portrait Camera with Sliding Ground Glass Carriage, one 8x10 light weight Curtain Slide Holder, one adapter frame to take 5x7 Cabinet Holders including one 5x7 No. 2 Cabinet Holder, and Semi-Centennial Stand with 5x7 Plate Holder Rack..... \$72 00

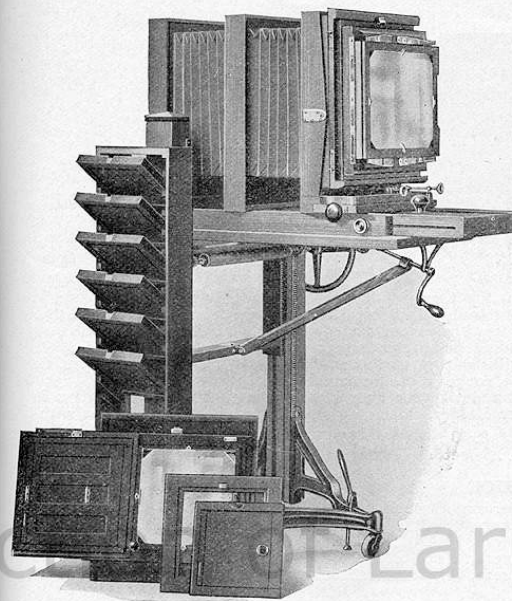
When Sold Separately

No. 7 Studio Camera.....	39 00
No. 7, 8x10 Sliding Ground Glass Carriage with 8x10 holder.....	19 00
Semi-Centennial Stand	25 00
8x10 Adapter Frame to take 5x7 Cabinet Holder	2 00
8x10 Light Weight Curtain Slide Holder.....	5 50
5x7 Cabinet Holder No. 2.....	2 50
Rack grooved to carry twelve cabinet holders	2 00



Century Studio Outfit No. 8

The Century Studio Outfit No. 8 is similar in design and construction to the 11x14 Century Universal Studio Outfit. The No. 8 Outfit dispenses with the heavy 11x14 Universal Holder, and in its place a reversing ground glass back is supplied, which permits the use of 11x14 double Century View Plate Holder. In addition to this outfit is supplied with sliding ground glass carriage, which takes the 8x10 light weight curtain slide holder, and an adapter for this sliding ground glass carriage which admits the 5x7 holder. These interchangeable backs allow the use of 5x7 and 8x10 curtain slide holders in the ground glass carriage, and when it is necessary to make a negative 11x14, the spring actuated ground glass back can be attached instantly to the back of the camera.



The ground glass carriage is fitted with a device which permits the operator to make two exposures on either 8x10 or 5x7 plates. The 8x10 light weight holder can be reversed in the attachment, as can the adapter frame carrying the 5x7 holder. This permits either one or two exposures on 5x7 or 8x10 plates while in a horizontal position. The sliding ground glass carriage is not automatic, as is the attachment supplied with the Universal Outfit.

The No. 8 Studio Outfit includes the No. 2 improved Semi-Centennial Stand solidly constructed to carry the 11x14 camera. The raising and lowering device is so nicely adjusted that the camera may be raised or lowered without the slightest difficulty, and locked in any desired position. A quick acting screw tilts the platform in either direction by elevating or depressing the back of the platform. Heavy rubber tired casters permit the outfit to be moved about noiselessly and without marring the floor, and the stand may be locked in any position on the floor by a jack provided for the purpose.

A plate holder rack to carry 5x7 curtain slide holders is supplied with the No. 8 Outfit. If desired, a rack to hold 8x10 holders will be furnished.

The camera consists of the regular No. 2 Century Grand Portrait Camera in 11x14 size, without the swinging ground glass back, which is rendered unnecessary by the use of the spring actuated back.

PRICE

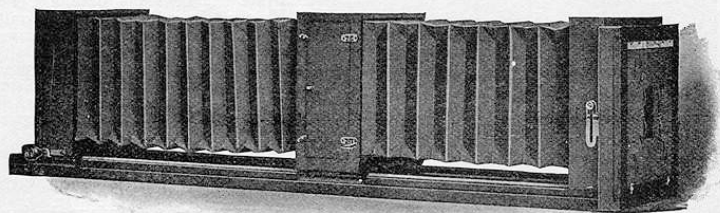
Century Studio Outfit No. 8, complete, consists of an 11x14 Grand Portrait Camera No. 2, with one Reversible Spring Actuated Ground Glass Adapter, with 11x14 Century View Double Plate Holder, one 8x10 Sliding Ground Glass Carriage, including 8x10 light weight Curtain Slide Holder, with Adapter Frame to fit the above camera, one 8x10-5x7 Adapter Frame, including one 5x7 Cabinet Holder, and one No. 2 Semi-Centennial Stand with 5x7 plate holder rack..... \$120 00

When Furnished Separately

Studio Camera 11x14 with Reversible Ground Glass Adapter and 11x14 double Century View Plate Holder	65 00
Semi-Centennial Stand	27 00
8x10 Sliding Ground Glass Carriage with 11x14 Adapter Frame and one 8x10 light weight Curtain Slide Holder	22 00
8x10 Adapter Frame to take 5x7 Cabinet Holder.....	2 00
8x10 Light Weight Curtain Slide Holder.....	5 50
11x14 Century View Holder.....	4 50
5x7 Cabinet Holder No. 2.....	2 50
Rack grooved to carry 12 cabinet holders.....	2 00
Rack grooved to carry twelve 8x10 holders.....	2 50

The Crown Enlarging, Reducing and Copying Camera

The Crown Enlarging Reducing and Copying Camera is fitted with all adjustments necessary for ordinary work, and is constructed of the best materials and in the same careful manner that characterizes all Folmer & Schwing products.



The rear section of bellows is much longer than the forward section—a decidedly valuable feature in making enlargements. As the openings in the front and center compartment are of the same size, the lens board is interchangeable, and may be used in front when an extra extension of bellows is necessary for copying; or placed in the center compartment when making enlargements or reductions.

This camera is fitted with rising, sliding and falling front, and is equipped with a full set of reversible kits, accepting plates from $3\frac{1}{4} \times 4\frac{1}{4}$ inches up to the capacity of the camera.

The Crown Cameras have V-shaped guides and a device for accurate focusing. The ground glass is spring actuated and recedes to take a Bromide Paper Holder, closing automatically when the holder is withdrawn.

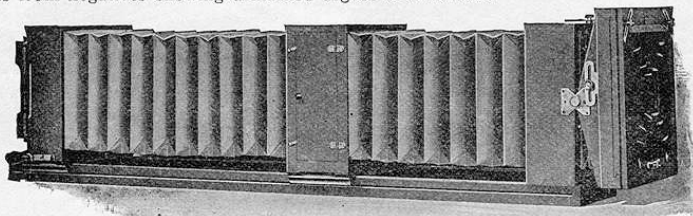
	8x10	11x14	14x17	18x22
Length of Bed.....	5 feet	5½ feet	6 feet	6½ feet

PRICE

Including One Combination Bromide Paper and Plate Holder and complete set of Kits.				
The Crown Enlarging, Reducing and Copying Camera, 8x10	.....			\$ 38 00
The Crown Enlarging, Reducing and Copying Camera, 11x14	.....			65 00
The Crown Enlarging, Reducing and Copying Camera, 14x17	.....			80 00
The Crown Enlarging, Reducing and Copying Camera, 18x22	.....			105 00

The Folmer & Schwing Enlarging, Reducing and Copying Camera

The Folmer & Schwing Enlarging, Reducing and Copying Camera embodies many exclusive features that are particularly valuable to photographic workers. The front is not only rising and falling, but also swinging, sliding and oscillating, enabling the operator to produce straight lined lantern slides, copies or enlargements from negatives showing a marked degree of distortion.



The rear section of the bellows is much longer than the front section—a decided advantage when making enlargements. As the openings in the front and center compartments are of the same size, the lens board is interchangeable, and may be used in front when an extra long draw of bellows is required for copying, or adjusted in the center compartment for enlarging or reducing. This camera is a valuable addition to the equipment of any photographer, and especially to those who make architectural photographs with cameras having rigid or insufficient swing-back.

The Folmer & Schwing Enlarging, Reducing and Copying Camera, 8x10. Length of bed, 5 feet.
The Folmer & Schwing Enlarging, Reducing and Copying Camera, 11x14. Length of bed, 5½ feet.

PRICE

Including one Combination Bromide Paper and Plate Holder and full set of Kits.	
The Folmer & Schwing Enlarging, Reducing and Copying Camera, 8x10.....	\$50 00
The Folmer & Schwing Enlarging, Reducing and Copying Camera, 11x14.....	78 00

Universal Laboratory Outfit

FOR PHOTO-MICROGRAPHIC, LANTERN SLIDE AND COPYING WORK

It consists of a Copying Camera with Combination Bromide Paper and Plate Holder, Swinging Copy or Negative Holder with set of Spring Finger Kits, Ground Glass, and a Tilting Laboratory Stand. This provides an equipment with which Photo-Micrographic, Lantern Slide and Copying work may be done.

Camera

The Camera is well made of mahogany and cherry, with removable lens board, reversible back and is fitted with our improved micrometer focusing device, which permits of very accurate focusing while the Camera is in either a horizontal or vertical position. The 5x7 Camera has a draw of 36 inches, the 8x10, 60 inches.

Two tripod screw plates are inserted in bed of Camera.

A Combination Bromide Paper and Plate Holder (a single book holder), fitted with a nested set of kits, carrying $3\frac{1}{4} \times 4\frac{1}{4}$ (lantern slide size) and all sizes of paper or plates up to capacity of holder is furnished.

Stand

The Laboratory Stand consists of a solid base with two uprights supporting a tilting track, which may

be swung and rigidly clamped in any position from upright to upright, describing a half circle of 180 degrees.

A sliding platform runs freely in grooves in side rails of track. This platform is fitted with standard tripod screws in order that any standard camera may be fastened to the sliding platform.

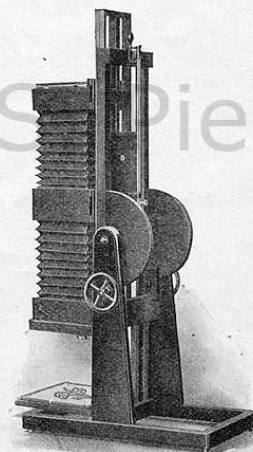
A Swinging Copy or Negative Holder is hinged to guides running in grooves in side rails. The swinging movement may be used to correct distorted negatives for lantern slides or enlargements.

The double snifting movement permits the operator to select any portion of a negative for enlarging or copying purposes.

A set of Spring Finger Kits is furnished with the above Swinging Frame, which will hold any size negatives from $3\frac{1}{4} \times 4\frac{1}{4}$ up to capacity of the Camera, or a Ground Glass may be substituted for the kits when photographing botanical or other similar subjects.

For micrographic work, a separate adjustable platform for centering the microscope can be furnished, also a telescopic sleeve with pucker string for eye piece.

To those who are not provided with a suitable lens for copying or lantern slide work, the Series Ila B. & L. Zeiss Anastigmat is, by reason of its faultless detail, flat field and ability to copy straight lines, highly recommended.



Prices

Universal Laboratory Outfit, including—

	No. 1 5x7	No. 2 8x10
Laboratory Stand, Copying Camera, One Combination Bromide Paper and Plate Holder, One Swinging Copy or Negative Holder, Set of Spring Finger Kits, Ground Glass, Spring Finger Copy Holder	\$50 00	\$80 00
Laboratory Stand, only.....	25 00	45 00
Copying Camera, with Combination Bromide Paper and Plate Holder, only....	25 00	35 00
Extra Combination Bromide Paper and Plate Holder, with complete set of Kits..	4 00	5 50
Adjustable Platform for Microscope, extra.....	6 00	7 00
Tapered Cone, extra.....	3 00	4 00
Lens Board with Sleeve attached and Pucker String for Microscopic Eye piece, extra	1 50	2 00
Double Plate Holders.....	1 25	2 50

Enlarging Outfit

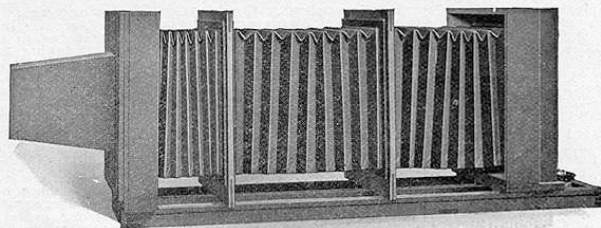
CENTURY PROCESS CAMERA

Substantially constructed and accurately assembled, this instrument provides both the durability and smoothness of operation so essential to success in process work.

The camera front is extremely strong and rigid, and is fitted with detachable lens boards, and with a taper cone for use with prism. For focusing, the old fashioned clamp lever has been dispensed with, the new Micrometer Focusing Device, which takes its place, loosening and drawing out the camera back with one operation. The bellows is made in three sections, and is supported by rectangular frames to prevent sagging. The screen holder may be instantly attached or detached, and when in position is firmly held by means of dowel pins and a quick acting catch. Camera body constructed of mahogany and cherry, and heavily varnished.

When holders, other than the Century, are to be used, it is advisable to send them in to insure proper fitting.

The Century Process Camera used in combination with the Century Line Screen Holder and the Century Process Camera Stand forms the most practical and up-to-date outfit for process work on the market.



The Price

	With Century Holder.	With Century Line Screen Holder.
Century Process Camera, 8x10, 4-foot bed.....	\$40 00	\$ 62 00
Do., 11x14, 4½-foot bed.....	57 00	86 00
Do., 14x17, 5-foot bed.....	70 00	101 00

CENTURY SCREEN HOLDER

The construction of the Century Screen Holder embodies the highest degree of efficiency, and at the same time is so simple that all complicated and flimsy parts, so common in holders of the ordinary type, have been eliminated. The holder is so arranged that the different screens are fitted into reversible master kits, provided with a micrometer head adjusting screw placed at each corner.

With these screws the separation between screen and negative plate may be accurately adjusted from 1-40 to 5/8 of an inch, so that the change of different line screens in the holder does not necessitate re-adjustment. The screen is held securely in the master kit by automatic clamps, which provide for varying thicknesses of screens.

The spacious silver troughs—larger than usually supplied—will take care of all drip, and fit into metal guides, preventing lost motion or rocking.

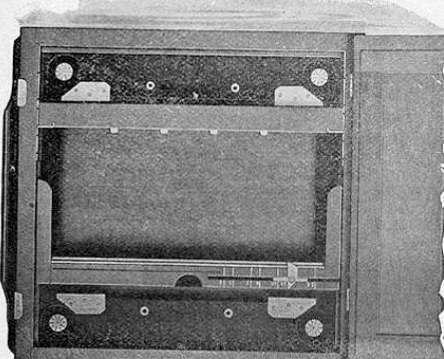
The Century Screen Holders are provided with an adjustment which permits the lateral movement of screen, which is used to break up harsh lines by moving the screen a distance equal to one-fourth or one-half the distance between the lines, after the exposure is partially completed.

Focusing may be done by placing a ground glass in the Line Screen Holder, ground face sideforward, in the position occupied by the negative plate, although ground glass and frame are furnished with each holder.

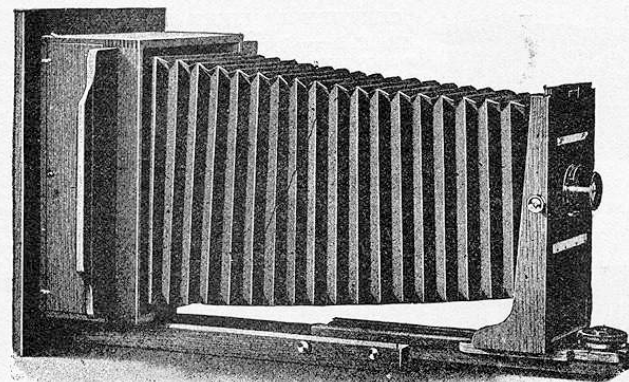
When Century Screen Holders are ordered for other than our make of cameras, it will be necessary to send us either plate holder or ground glass frame, in order to fit an adjuster, as Century Screen Holders are more substantially built and are slightly larger than corresponding sizes of other makes of screen holders.

The Price

Century Screen Holder, 8x10.....	\$32 00
Century Screen Holder, 11x14.....	50 00
Century Screen Holder, 14x17.....	55 00



Graphic Enlarging and Reducing Cameras



The Graphic Enlarging and Reducing Camera is designed for enlarging and reducing work on either plates or bromide paper and is so constructed that it may be fastened to the side of the dark room, projecting the enlargement or reduction on a movable easel in the dark room.

This camera is operated without condensing lenses, a specially designed reflecting cone being used as a substitute, and producing better results.

The size of the enlargement is regulated by the focal length of the objective used and by the distance the easel is placed from the camera. The negative to be enlarged or reduced is illuminated by artificial light from the outside of the dark room with a reflecting cone projecting through the side of the dark room, receiving the light from the lamp with the reflection from the sides of the cone. In this way the entire negative is evenly illuminated and enlargements or reductions to any size desired may be secured.

The bed of the camera is telescopic in form, permitting of a liberal extension when necessary, or the contraction of the bed allowing of the use of short focus lenses, as the case may require.

A carrier with full set of nested spring finger kits is fitted into the camera. We recommend the Aristo Lamp, as illustrated above, as most suitable for this camera. However, Cooper-Hewitt Tubes or any other suitable light

may be used. Where Cooper-Hewitt Tubes are used, they should be brought up close to the outer surface of the dark room partition, dispensing with the use of the reflecting cone. A reflecting shade should be placed back of the arc or Cooper-Hewitt Tubes, which will add greatly to the illumination obtained. A cylindrical shaped sheet of asbestos will fill this requirement nicely.

Direct daylight may be used with the above camera.

Graphic Enlarging and Reducing Cameras are furnished with our new Micrometer Focusing Device, which affords the most accurate adjustment in this respect.

An orange screen cap gives sufficient light in the dark room to adjust the bromide paper accurately on the easel.

The No. 1 Graphic Enlarging and Reducing Camera will take all size negatives up to and including the 5 x 7 size, the No. 2 all size negatives up to and including 8 x 10 size, the No. 3 all size negatives up to and including the 11 x 14 size.

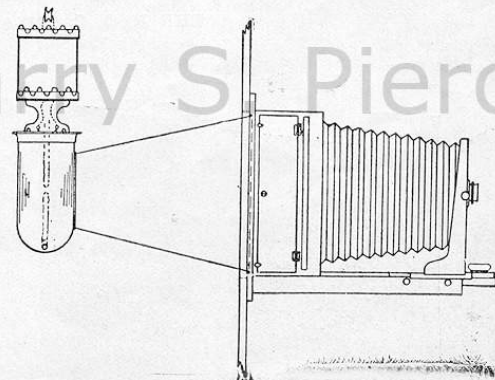
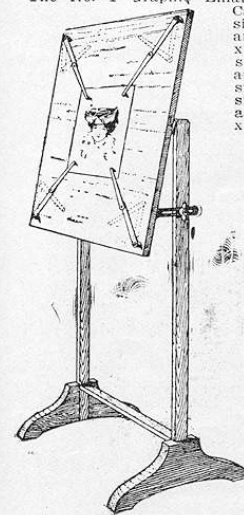


Diagram Showing Graphic Enlarging and Reducing Camera in use with Aristo Lamp.

A Bromide Paper Easel for use in connection with these cameras is provided. These easels are designed to be used in conjunction with our Graphic Enlarging and Reducing Camera, placed in the dark room, and then moved back or forth to suit the required enlargement.

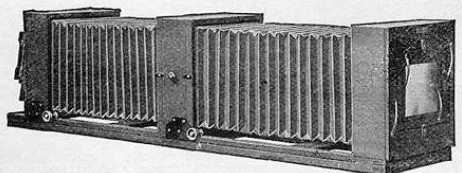
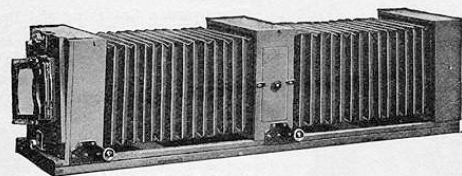
They are made regularly in three sizes, corresponding by number to the Graphic Enlarging and Reducing Cameras and are all of a uniform height, 50 inches from the floor to the center of the Bromide Board.

Prices

Including one Graphic Enlarging and Reducing Camera, with reflecting cone negative carrier with full set of nested spring finger kits and three pieces of fine diffusing ground glass.

No. 1 Graphic Enlarging and Reducing Outfit 5 x 7	\$28 00
No. 2 " " " " " 8 x 10	35 00
No. 3 " " " " " 11 x 14	45 00
No. 1 Bromide Easel complete, as shown above, with bromide board 14 x 17..	8 00
No. 2 Bromide Easel complete, as shown above, with bromide board 16 x 20..	10 00
No. 3 Bromide Easel complete, as shown above, with bromide board 28 x 36..	14 00

Cameras and Attachment



CENTURY LANTERN SLIDE CAMERA

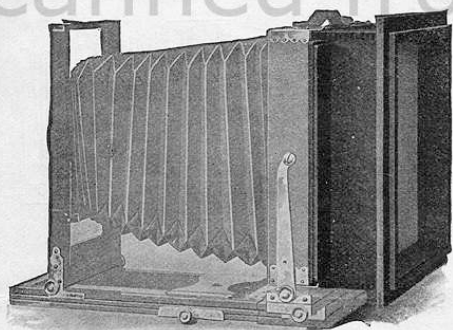
The Century Lantern Slide Camera will unquestionably prove popular among professional photographers who have occasion to make lantern slides. It is constructed along the lines of the larger and more expensive enlarging, reducing and copying cameras. It has a bellows of 36 inches, and removable lens board in the center compartment. The back is fitted with F. & S. Lantern Slide attachment, with rising, sliding and oscillating adjustment. This attachment will take a 3 1/4 x 4 or 3 1/4 x 4 1/4 Century Double Plate Holder. The front of the camera includes a set of nested kits from 5x7 down to 3 1/4 x 4 1/4. Thus slides can be made from 5x7 or smaller negatives. For those who wish to enlarge or copy up to 5x7 on plates or bromide paper, an extra back which holds 5x7 double holder will be furnished.

No lens is furnished with above camera, unless specially ordered.

Price

Century Lantern Slide Camera with 3 1/4 x 4 holder. Each.....	\$25 00
Extra Back for 5x7 Plate Holder. Each.....	6 00

THE R. O. C. ENLARGING BACK



The R. O. C. Enlarging Back is similar in construction to the back of the Graphic Enlarging Camera, and as shown in the accompanying illustration may be instantly attached to the back of a view camera, at once adapting it for enlarging with either artificial or day light.

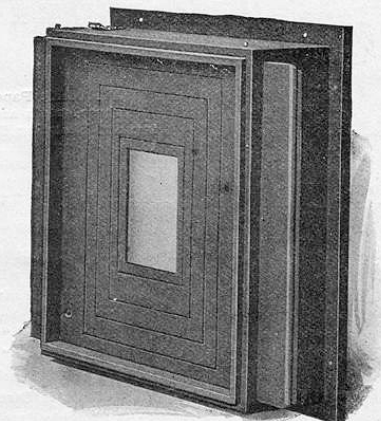
The R. O. C. Enlarging Back is made in two sizes to fit the 6 1/2 x 8 1/2 and 8x10 Empire State and Premo View Cameras.

Adapters to fit R. O. C. or Century View Cameras supplied without extra charge.

For fitting to view cameras other than above specified an extra charge of one dollar net will be made.

Price

R. O. C. Enlarging Back.....	\$8 00
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The Improved Sky Scraper Camera

(FOLMER & SCHWING DIVISION.)

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

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.

Improved Sky Scraper Camera, 8x10.

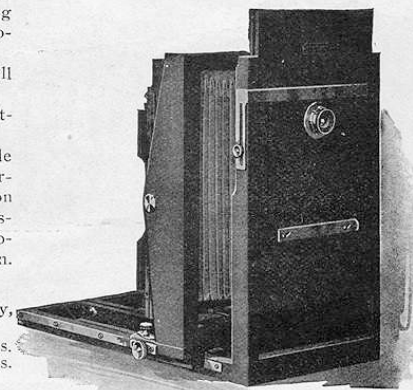
Dimensions, 16 3/4 x 13 x 7 1/8 inches. Focal capacity, 20 inches.

Weight, 11 pounds. Size of lens board, 7x7 inches. Minimum focus of lens accommodated, 4 inches.

Improved Sky Scraper Camera, 11x14.

Dimensions, 21 1/2 x 17 1/4 x 8 3/4 inches. Focal capacity, 25 inches.

Weight, 20 pounds. Size of lens board, 8x8 inches. Minimum focus of lens accommodated, 5 inches.



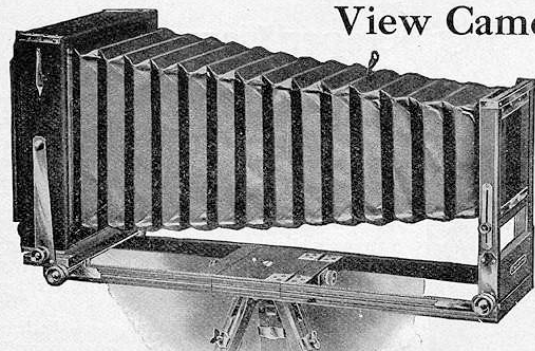
Showing Lens Elevated to Top of Plate

PRICE

Including Carrying Case and One Sterling Double Plate Holder.

Improved Sky Scraper Camera, 8x10.....	\$45 00
Improved Sky Scraper Camera, 11x14.....	60 00

View Cameras



CENTURY VIEW CAMERA No. 1

This instrument includes a number of specially advantageous features: The double grooved bed permits the use of extra long side brackets supporting the front and back. Front and back focus, rack and pinion operated. Three section bed, with stop lock. Horizontal and vertical swings, operating from center. Reversible back, and adjustable front, rack and pinion actuated. Brass plumb indicator. Wide angle lenses may be used, and the Graflex Focal Plane Shutter fitted. All wood parts finely finished mahogany; all brass work polished and heavily lacquered.

Century View Camera No. 1, 5x7. Focal capacity 22 inches. Size of Lens Board $3\frac{1}{2} \times 3\frac{1}{2}$ inches. Weight $4\frac{1}{2}$ pounds.
 Century View Camera No. 1, $6\frac{1}{2} \times 8\frac{1}{2}$. Focal capacity 27 inches. Size of Lens Board $4\frac{1}{4} \times 4\frac{1}{4}$ inches. Weight 7 pounds.
 Century View Camera No. 1, 8x10. Focal capacity 32 inches. Size of Lens Board $4\frac{3}{4} \times 4\frac{3}{4}$ inches. Weight $8\frac{1}{2}$ pounds.
 Century View Camera No. 1, 11x14. Focal capacity 37 inches. Size of Lens Board $6\frac{1}{2} \times 6\frac{1}{2}$ inches. Weight $16\frac{1}{2}$ pounds.

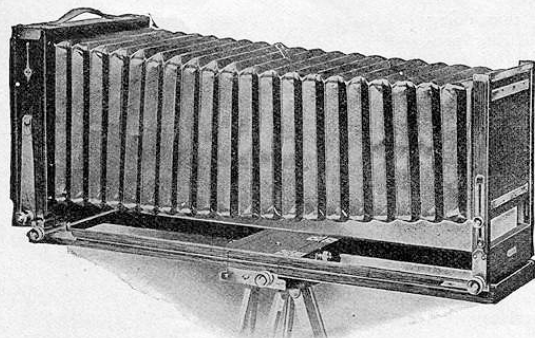
The Price on Camera

Including one Plate Holder and Canvas Case with space for Five Holders. Century View Camera No. 1.....

The Price on Outfit

	5x7	$6\frac{1}{2} \times 8\frac{1}{2}$	8x10	11x14
Century View Outfit No. 1 with Symmetrical Lens in Double Valve Automatic Shutter, 6 double Plate Holders, F. & S. Tripod, Century Focusing Cloth and Carrying Case for complete equipment.....	\$38 50	\$46 50	\$55 50	
Century View Outfit No. 1 complete as above, but with Rapid Rectigraphic Lens instead of Symmetrical Lens.....	49 50	58 50	69 50	

CENTURY VIEW CAMERA No. 2



This superior view camera is one that will appeal to the ever discriminating professional. The No. 2 Century View Camera has most of the distinctive features of the No. 1, and in addition possesses a number of new and valuable improvements. An exclusive feature of this instrument is the auxiliary base which is, in reality, a supplementary bed on which the entire camera moves forward or back so that the weight is evenly distributed and the camera always in perfect balance when on the tripod, even when an extra long focus or a wide angle lens is employed. The bellows is almost square, tapering but very little thus affording an extra large front and lens board which will accommodate large lenses, and likewise inside shutters, if desired. Horizontal and vertical swings are provided, and rising and falling front, all operated by rack and pinion. All wood parts finely finished mahogany; metal fittings, brass, polished and heavily lacquered.

Century View Camera No. 2, 5x7. Focal capacity 23 inches. Size of Lens Board 4×4 inches. Weight $5\frac{1}{2}$ pounds.
 Century View Camera No. 2, $6\frac{1}{2} \times 8\frac{1}{2}$. Focal capacity 27 inches. Size of Lens Board $4\frac{3}{4} \times 4\frac{3}{4}$ inches. Weight 8 pounds.
 Century View Camera No. 2, 8x10. Focal capacity 32 inches. Size of Lens Board $5\frac{3}{4} \times 5\frac{3}{4}$ inches. Weight $9\frac{1}{2}$ pounds.

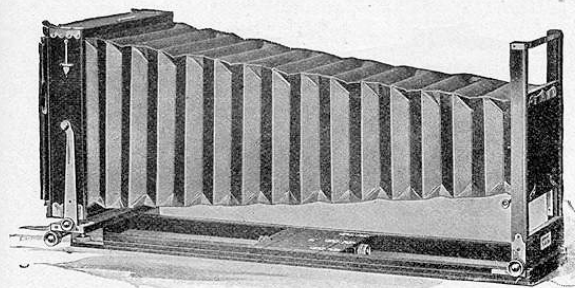
The Price

Including one Plate Holder and Canvas Case with space for Five Extra Holders. Century View Camera No. 2.....

	5x7	$6\frac{1}{2} \times 8\frac{1}{2}$	8x10
Century View Camera No. 2.....	\$24 00	\$26 00	\$39 00
Century View Outfit No. 2 with Symmetrical Lens in Double Valve Automatic Shutter, 6 double Plate Holders, F. & S. Tripod, Century Focusing Cloth and Carrying Case for complete equipment.....	41 50	50 50	60 50
Century View Outfit No. 2 complete as above, but with Rapid Rectigraphic Lens instead of Rapid Symmetrical.....	52 50	62 50	74 50

View Cameras

EMPIRE STATE CAMERA



The Empire State has been a favorite among the most exacting commercial photographers and those persons who use an exclusively tripod outfit. Its very great focal capacity adapts it for copying, long distance and telephoto work. It has both front and back focus, pinion actuated, so that the back may be racked up close to the front for widest angle lenses.

It also has both horizontal and vertical swing, reversible back and rising front actuated by rack and pinion. The focus is adjusted either from the front or back, excepting in 14x17 size which is back focus.

All wood used in construction is highly polished mahogany; the metal parts are lacquered brass. It will withstand the hardest usage.

It carries the new supplementary light lock, making it impossible to fog the plate while drawing the slide.

Price includes one Universal plate holder and canvas carrying case, with separate compartments for camera and holders.

Size	Bellows Draw	Weight	Size of Lens Board	Camera only
5 x 7	22 in.	6 $\frac{1}{2}$ lbs.	$3\frac{3}{4} \times 3\frac{3}{4}$ in.	\$21 00
$6\frac{1}{2} \times 8\frac{1}{2}$	27 in.	7 $\frac{1}{2}$ lbs.	$4\frac{1}{4} \times 4\frac{1}{4}$ in.	22 00
8 x 10	30 in.	9 $\frac{1}{2}$ lbs.	5 x 5 in.	25 00
11 x 14	37 in.	16 lbs.	$5\frac{3}{4} \times 5\frac{3}{4}$ in.	36 00
14 x 17	48 in.	23 $\frac{3}{4}$ lbs.	7 x 7 in.	60 00

Plate Holders, 5x7, \$1 00; $6\frac{1}{2} \times 8\frac{1}{2}$, \$1 10; 8x10, \$1 25; 11x14, \$4 00; 14x17, \$5 00

EMPIRE STATE OUTFIT complete including the following:

Empire State Camera, Symmetrical Lens and D. V. Auto Shutter, 6 Plate Holders, Combination Tripod, R. O. C. Focusing Cloth, Carrying Case to hold complete outfit.

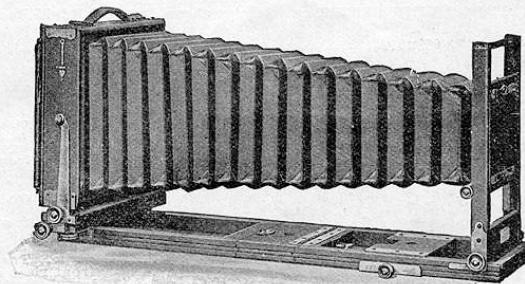
5x7.....	\$36 00	$6\frac{1}{2} \times 8\frac{1}{2}$	\$44 00	8x10.....	\$53 00
EMPIRE STATE OUTFIT complete as above but with Rapid Rectigraphic Lens instead of Symmetrical Lens.					
5x7.....	\$47 00	$6\frac{1}{2} \times 8\frac{1}{2}$	\$56 00	8x10.....	\$67 00

EMPIRE STATE CAMERA No. 2

A complete, reliable and practical instrument for the photographer or scientific man. It embodies all the practical features of the regular Empire State with the sliding tripod block for balancing. The front extension has piano hinge for durability, and is locked rigidly by a special lock in place of the usual long threaded thumb-screw. The back extension locks in the same way.

Other important features are supplementary light locks, which serve as an auxiliary protection against light fog when withdrawing holder slides, and a spring attachment inside bellows to keep them up in place. All adjusting nuts are on right, whereas check nuts are on left to avoid confusion.

Price includes one Universal plate holder and canvas carrying case, with separate compartments for camera and holders.



Price

Size	Bellows Draw	Weight	Size of Lens Board	Camera only	Extra for Planatograph Lens and Auto Shutter
5 x 7	22 in.	7 $\frac{1}{2}$ lbs.	$3\frac{3}{4} \times 3\frac{3}{4}$ in.	\$23 00	\$13 50
$6\frac{1}{2} \times 8\frac{1}{2}$	27 in.	8 $\frac{1}{2}$ lbs.	$4\frac{1}{4} \times 4\frac{1}{4}$ in.	25 00	18 00
8 x 10	30 in.	11 $\frac{1}{4}$ lbs.	5 x 5 in.	28 00	21 50

Plate Holders, 5x7, \$1 00; $6\frac{1}{2} \times 8\frac{1}{2}$, \$1 10; 8x10, \$1 25.

EMPIRE STATE No. 2 OUTFIT complete including the following:

Empire State No. 2 Camera, Symmetrical Lens and D. V. Auto Shutter, 6 Plate Holders, Combination Tripod, R. O. C. Focusing Cloth, Carrying Case to hold complete outfit.

5x7.....	\$38 00	$6\frac{1}{2} \times 8\frac{1}{2}$	\$47 00	8x10.....	\$56 00
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EMPIRE STATE No. 2 OUTFIT complete as above but with Rapid Rectigraphic Lens instead of Symmetrical Lens.

5x7.....	\$49 00	$6\frac{1}{2} \times 8\frac{1}{2}$	\$59 00	8x10.....	\$70 00
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View Cameras

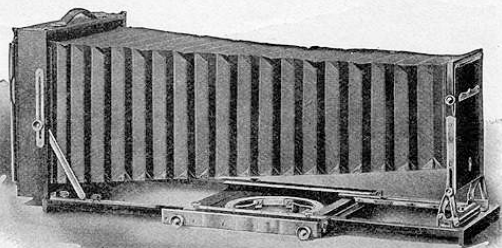
PREMO VIEW CAMERA

This instrument contains some radical departures and meets the most exacting conditions of the commercial photographer and others who desire a camera for serious work. It has front and back focus attachments, and can always be balanced upon the tripod no matter in what position the front or back may be. It carries bellows which accommodates with equal facility lenses of exceedingly long focus and yet does not cut into the fields of the extreme wide angles.

Both horizontal and vertical swings are provided. The rising front has a very large range. The tripod socket is on the bed of the camera itself and is of such construction that the lens may be left in position when the camera is closed up. A reversible back allows horizontal or vertical pictures at will. Any lens may be used, since the lens board is figured large enough to accommodate all standard ones, and the standard holding the lens board is purposely made strong and rigid for rough usage.

Nothing but the finest mahogany is used in this camera. The metal parts are finely lacquered brass. The carrying case is arranged with tripod in a compartment under the camera and may be taken out without disturbing the camera or holders. There are separate compartments for lens, focusing cloth and miscellaneous attachments. The case is made of durable lined canvas, absolutely waterproof. Universal plate holders are used in this camera. The price includes the camera, tripod, carrying case and one holder.

The plate holders are furnished with new spring finger cut-off to prevent light fog.



Size	Bellows Draw	Weight	Size of Lens Board	
6 1/2 x 8 1/2	27 in.	8 lbs.	4 x 4 in.	\$52 00
8 x 10	30 in.	9 1/2 lbs.	4 1/2 x 4 1/2 in.	58 00
Plate Holders, 6 1/2 x 8 1/2, \$1 10; 8 x 10, \$1 25.				

PREMO VIEW CAMERA OUTFIT complete including the following:

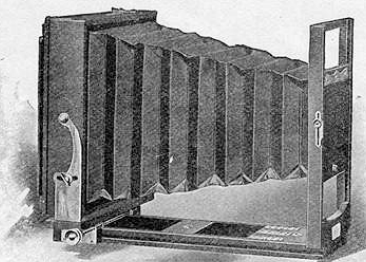
Premo View Camera, Symmetrical Lens and D. V. Auto Shutter, 6 Plate Holders, Combination Tripod, R. O. C. Focusing Cloth, Carrying Case to hold complete outfit.

6 1/2 x 8 1/2	\$74 00	8 x 10	\$86 00
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PREMO VIEW OUTFIT complete as above, but with Rapid Rectigraphic Lens instead of Symmetrical Lens.

6 1/2 x 8 1/2	\$86 00	8 x 10	\$100 00
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R. O. C. VIEW CAMERA



This outfit will appeal to those who desire a good rigid camera at a moderate price. It is the most efficient camera ever offered for the price. It is built on very strong lines, and provided with those arrangements which are most necessary. The front standard is firmly attached to the base, giving extreme rigidity for the heaviest lenses. The focusing is from the back entirely. A convenient rack and pinion moves the complete back to any point on the bed desired, and a clamp device fastens it securely. The horizontal swing back is pivoted on the center. The swing can be locked firmly at any desired angle. The vertical swing also works on the center. The front rises and falls and the lens boards are conveniently large for large diameter lenses. It is specially adapted for interior work, as the back can be moved as near the front as desired, a great advantage with wide angle lens. The wood parts are mahogany finish and the metal parts are lacquered brass. The camera folds up very compactly. The price includes camera, one Rochester plate holder, and a carrying case. This case is lined with heavy canvas, and has a place for the camera and several plate holders. If long case with partition is desired, add 75 cents in 5x7 and 6 1/2 x 8 1/2 size, and \$1.00 in 8x10 size.

Price	5x7	6 1/2 x 8 1/2	8x10
R. O. C. View Camera	\$12 00	\$13 00	\$14 00
Extra Double Plate Holders, each	1 00	1 10	1 25

These will be supplied as follows, complete including the following:

R. O. C. View Camera, Symmetrical Lens and D. V. Auto Shutter, 6 Plate Holders, Combination Tripod, R. O. C. Focusing Cloth, Carrying Case to hold complete outfit.

5x7	\$27 00	6 1/2 x 8 1/2	\$35 00
8x10			\$42 00

The Home Portrait Graflex

As its name implies, this camera is designed to meet the requirements of those making portraits at home.

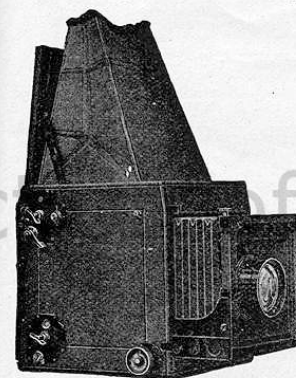
Although this camera is primarily intended for portrait work, it is equally efficient in all other branches of photography where excessive shutter speed is not essential. The Home Portrait Graflex is fitted with a special Focal Plane Shutter which will give automatic exposures as long as 1/2 second, or instantaneous exposures of any duration up to 1/500 of a second. By a unique adjustment increased illumination may be secured with automatic exposures, by adding one or more of the exposing apertures to the full curtain opening. This adjustment consists of an escapement, which permits the curtain to travel its full length utilizing all apertures. As an example, the curtain may be set for the full 7-inch and the next smaller, 2-inch, opening, this would give the effect of a 9-inch curtain aperture, or the curtain may be adjusted to give the 7-inch, 2-inch and the 1-inch opening. The shutter is adjusted to give time exposures of any duration.

One of the special features of this camera that makes it exceptionally efficient in portrait work is the swinging front movement. By a slight turn of a quick acting screw, the front may be tipped either up or down to correct the false perspective frequently obtained in sitting figures or in groups where some of the subjects are placed in front of others. By means of this device it is possible to obtain just the diffusion required in the draperies. The fact that the image remains brilliantly visible while the adjustments are being made eliminates all uncertainty in regard to the effect secured.

The construction of the camera front is such that short, as well as long, focus lenses may be used. One lens board is flush with the front of the camera for use with medium or long focus lenses. Another smaller board fitted to the depressed front permits the use of lenses having shorter focal lengths. In addition to these features, the front is fitted with a raising and lowering device which affords ample movement in either direction.

The Revolving Back with which the camera is equipped will permit the making of either vertical or horizontal negatives without tipping the camera on its side. When changing the back from one position to another, it is not necessary to remove it from the camera. A slight pressure on the release allows the back to revolve from a vertical to horizontal, or any intermediate position.

The Home Portrait Graflex takes the regular 5x7 Graflex Plate Holder, Magazine Plate Holder or Film Pack Adapter. For those who prefer roll film we supply the Graflex Cartridge Roll Holder, which takes 7-inch cartridge roll holder film. A tripod socket is provided that the camera may be used on a tripod for prolonged exposures.



Specifications

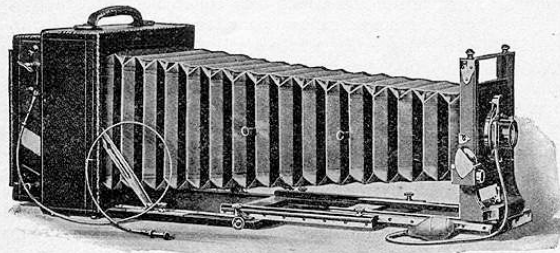
Dimensions, 8 3/4 x 10 1/2 x 11 1/4 inches; focal capacity, 18 inches; weight, 9 1/2 lbs.; size of lens boards, 5x5 and 6 1/2 x 6 1/2 inches; minimum focus of lenses accommodated, 9 1/2 inches.

Prices

Home Portrait Graflex without lens, including one double plate holder	\$150 00
With Zeiss Kodak Anastigmat Lens, F:6.3, No. 6	204 00
With B. & L.-Zeiss Tessar, Ic, F:4.5, No. 17	265 50
With B. & L.-Zeiss Tessar, Ic, F:4.5, No. 18	312 00
With Cooke Lens, Series II, F:4.5, No. 22 1/2	270 00
With Cooke Lens, Series IV, F:5.6, No. 27 1/2	230 00
Graflex Magazine Plate Holder, Model B, extra	15 00
Film Pack Adjuster, leather covered, extra	7 50
Cartridge Roll Holder, leather covered, extra	10 00
Leather case for camera and holder, with lock and key	16 00
Extra Graflex plate holder, each	3 50
Extra lens board, 5x5, each	80
Extra lens board, 6 1/2 x 6 1/2, each	1 00

The Revolving Back Cycle Graphic

The Revolving Back Cycle Graphic meets the requirements of the professional desiring a first-class, compact instrument for all-around work. The extra large and rigid front is sufficient for the largest anastigmat lenses, and the bellows extension is ample for the use of those of long focus. The extension front runs out on telescopic tracks, reinforced by angle brass guides. Rack and pinion device for accurate focusing.



of Lens Board, 4 1/4 x 4 1/4 inches. Revolving Back Cycle Graphic, 8x10 inches. Weight, 10 1/2 pounds. Size of camera, 12x5x12 inches. Size of Lens Board, 4 1/2 x 4 1/2 inches.

The swing back is secured by an adjustment of the side arms running in a slotted plate on the platform and locked by milled-head binding screws. The revolving back may be instantly turned to any position, and is fitted to receive the regular ground glass back or the Graflex Focal Plane Shutter.

The rising front is provided with a self-locking device.

The Cycle Graphic is constructed of best quality selected stock, lock jointed and covered with handsome black grained leather. The bellows of finest red Russia leather.

Revolving Back Cycle Graphic, 5x7. Size of camera, 8 3/4 x 4 3/4 x 9 1/4 inches. Weight, 6 1/4 pounds. Focal capacity, 22 1/2 inches. Size of Lens Board, 3 1/2 x 3 1/2 inches. Revolving Back Cycle Graphic, 6 1/2 x 8 1/2. Focal capacity, 26 inches. Weight, 7 1/2 pounds. Size of camera, 10 3/4 x 4 3/4 x 10 3/4 inches. Size (Reversible back only). Focal capacity, 30 inches. Weight, 10 1/2 pounds. Size of camera, 12x5x12 inches. Size of Lens Board, 4 1/2 x 4 1/2 inches.

Price

Including one Double Plate Holder and Sole Leather Carrying Case.

	5x7	6 1/2 x 8 1/2	8x10*
Revolving Back Cycle Graphic with Graphic Rapid Rectilinear Lens and Automatic Shutter.....	\$ 50 00	\$ 62 00	\$ 75 00
With Zeiss Kodak Anastigmat Lens and Compound Shutter, No. 5	100 05	124 20	
With B. & L. Zeiss Protar Lens, Series VIIA, and Compound Shutter.....	No. 10 140 55	No. 13 175 20	No. 17 249 50
Extra Plate Holders, each.....	1 25	1 75	2 00
Graflex Focal Plane Shutter, extra.....	18 00	20 00	23 00

*Furnished with reversible back only.

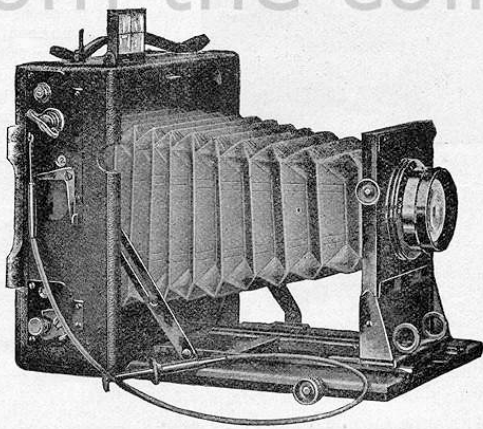
The Speed Graphic

Specifications

	4x5	3 1/4 x 5 1/2	5x7
Dimensions.....	2 7/8 x 8 1/2	3 1/4 x 7 1/2	3 3/4 x 9 1/2
Focal capacity.....	12 inches	12 inches	16 inches
Weight.....	3 lbs.	3 1/4 lbs.	4 1/4 lbs.
Size of lens board.....	3 1/4 x 3 1/4	3 1/4 x 3 1/4	3 3/4 x 3 3/4

Prices

	4x5	3 1/4 x 5 1/2	5x7
Including one Double Plate Holder			
Speed Graphic without lens	\$35 00	\$37 50	\$43 00
With Zeiss Kodak Anastigmat Lens, F:6.3	No. 3 62 00	No. 4 68 00	No. 5 83 00
With B. & L. Zeiss Tessar, Series Ic, F:4.5	No. 15 82 00	No. 15a 85 00	No. 16 115 00
With B. & L. Zeiss Protar, Series VIIA, F:6.3	No. 4 91 00	No. 7 104 00	No. 10 123 50
With Cooke Lens, Series IV, F:5.6	No. 26 78 00	No. 27 91 50	No. 27 97 00
With Cooke Lens, Series II, F:4.5	No. 21 82 00	No. 21 1/2 95 00	No. 22 109 00
Sole leather carrying case, with lock and key, to hold camera and five extra plate holders	7 00	7 50	8 50
Extra lens boards, each	40	49	50
Extra plate holders, each	1 00	1 00	1 25



The Speed Graphic Camera is designed to meet the requirements of those desiring Focal Plane Shutter efficiency in a compact folding camera.

The Speed Graphic is made of selected, kiln-dried mahogany especially treated to withstand climatic changes. The front is large enough to accept the high speed Anastigmat lenses, and sufficiently firm to prevent vibration when the camera is used with the bellows extended to its full capacity. A piano hinge extending the full width of the camera attaches the camera body to the folding platform, which is framed and paneled to insure a maximum of rigidity without excessive weight. The extension track is made in the form of a frame, which is not only extremely rigid, but allows the lens to rest between the tracks when the camera is closed.

The Speed Graphic is covered with the best grade of Morocco leather, and the bellows, which is of ample length to accommodate the single combinations of convertible lenses, is made of black leather. All exposed wood parts are ebonized and the metal work is oxidized, producing an instrument of attractive appearance. The Speed Graphic is supplied with a non-reversible back, and when making vertical negatives the camera is turned on its side.

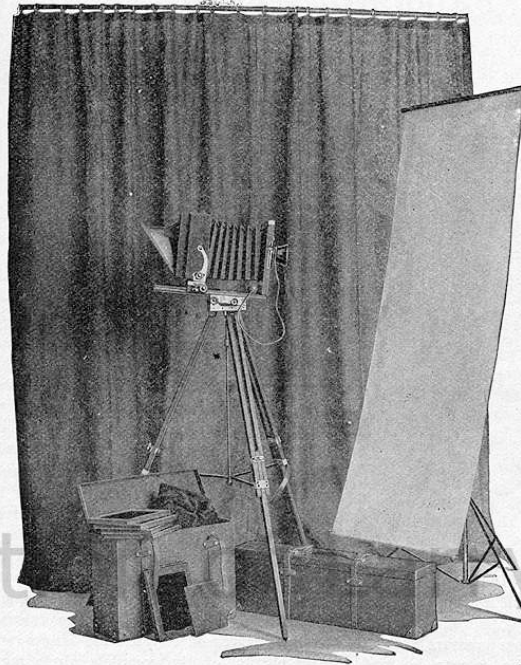
Built into and part of the Speed Graphic is the regular Graflex Focal Plane Shutter.

This shutter is actuated to give exposures of any duration from "time" to 1/1000 of a second.

The Speed Graphic includes the following adjustments: Rack and Pinion Focusing, Direct View Finder, Two Tripod Sockets, Removable Lens Board, Rising Front.

The Eastman Home Portrait Outfit

The new Eastman Home Portrait Outfit has been specially designed by practical men, and meets every requirement in efficiency and compactness.



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, or 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 a focusing mirror. This focusing mirror will be found peculiarly advantageous in home portrait work, as it reflects the entire 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 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. 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 water-proof brown Spanish Ruten, 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 complete outfit including 9 Double Holders, \$140.00.

PARTS OF OUTFIT

Furnished Separately at the Following Prices

Home Portrait Camera, including Camera Carrying Case, extra Front Board and one Plate Holder.....	\$30 00	Home Portrait Back Ground Carrier.....	3 75
Eastman Zeiss Anastigmat Lens, No. 6.....	54 00	Home Portrait Reflector.....	4 50
Home Portrait Shutter.....	14 00	Home Portrait Head Cloth, 40x48 inches....	1 00
Home Portrait Lens Hood.....	75	Home Portrait Plate Holder.....	1 00
Home Portrait Tripod.....	4 50	Carrying Case for Home Portrait Tripod, Back Ground, Back Ground Carrier and Reflector.....	4 50
Home Portrait Back Ground.....	15 00		

The Cirkut Panoramic Outfit

The wonderful success of the original No. 10 and No. 16 Cirkut Cameras led to the introduction of the smaller No. 6 and No. 8 Outfits, the No. 6 taking film $6\frac{1}{2}$ inches in width and the No. 8 film 8 inches in width.

The Cirkut Panoramic Outfit is in itself most complete, comprising a camera which may be used in the ordinary manner for plates when desired, and the Panoramic Attachment, which is easily and quickly attached to the camera.

The Camera supplied with the No. 6 Outfit takes pictures 5×7 inches, the one supplied with the No. 8 Outfit takes pictures $6\frac{1}{2}\times 8\frac{1}{2}$ inches, when in use as single plate cameras. When the panoramic film attachment is removed, a revolving ground glass back is provided, which may be easily put in place, thus converting the camera into a revolving back plate instrument. The camera has double section, brass bound telescope bed, swing back, rack and pinion movements, extra bellows length, and conforms in every respect with the high Century standard.

The Panoramic Attachment is easily and quickly attached to the camera when it is desired for use in making panoramic pictures. The attachment is similar to the ordinary Cartridge Roll Holder, in that it is made to

use Eastman daylight loading Cartridge Film. In addition, it contains the mechanism which, when the outfit is in operation, unwinds the film past a slot on a roller and in doing so exposes the film, and at the same time revolves the camera on an axis, a special tripod and top being furnished. A pressure on the release is all that is necessary to start the motor—another pressure stops it; thus, negatives of any desired length, up to 6 feet with the No. 6 and 7 feet with the No. 8, may be made. Any portion of the complete circle may be photographed if desired. An indicator located on top of the film holder shows the exact length of film exposed, and the amount remaining unexposed. By another very ingenious arrangement the operator is enabled to determine before exposure how long a photograph the view decided upon will make.

With the Cirkut Panoramic Outfit the operator is not limited as to the size of the photograph to be made. The attachment is loaded with a roll of film 3 feet or 6 feet long, as may be desired, and a succession of exposures, one after the other, of whatever length the operator may determine, may be made by merely starting and stopping the motor until the roll of film has all been exposed. The additional rolls may be loaded in broad daylight. With the No. 6 Outfit, photographs $6\frac{1}{2}$ inches wide, and any length up to 6 feet may be made, and with the No. 8, 8 inches wide and any length up to 8 feet.

The lens regularly supplied with the Cirkut Panoramic Outfit is the Centar series II, fitted to No. 1 Century Automatic Shutter. A double plate holder, and a Crown Tripod complete the outfit.

There is nothing in the entire field of photographic apparatus which, for completeness, is in any way comparable with the Cirkut Panoramic Outfit.

Cirkut Outfits will be sold complete only.

Cirkut Outfit.

	No. 6	No. 8
Width of Photograph.....	$6\frac{1}{2}$ inches	8 inches
Dimensions of Camera.....	$8\frac{7}{8}\times 4\frac{1}{2}\times 8\frac{1}{2}$ inches	$10\frac{1}{2}\times 4\frac{1}{2}\times 10\frac{1}{2}$ inches
Weight of Camera.....	5 $\frac{1}{2}$ pounds	8 $\frac{1}{2}$ pounds
Dimensions of Camera with Attachment.....	$8\frac{7}{8}\times 8\times 8\frac{1}{2}$ inches	$10\frac{1}{2}\times 8\frac{1}{2}\times 10\frac{1}{2}$ inches
Weight of Camera with Attachment.....	9 pounds	14 pounds
Focal capacity.....	17 inches	21 inches

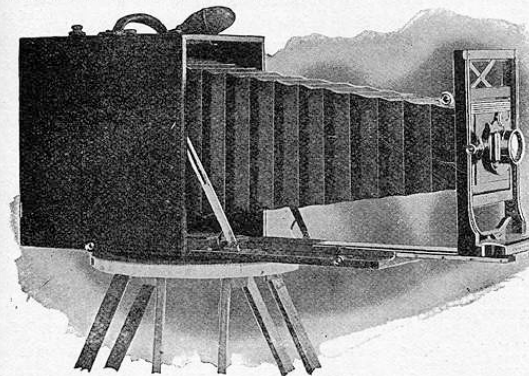
The Price.

Cirkut Panoramic Outfit, including Century Camera, Series II Centar Lens, No. 1 Automatic Shutter and Panoramic Attachment, also removable, Revolving Back and Double Plate Holder for Camera, Tripod and Carrying Cases to hold complete equipment.....

	No. 6	No. 8
.....	\$112 50	\$175 00
Do., Turner-Reich, Series II, in Automatic Shutter.....	No. 3 157 80	No. 5 242 90
Do., with Zeiss Protar VII A, Automatic Shutter.....	No. 9 196 00	No. 12 283 00

The Cirkut Camera

The Cirkut Camera, while designed primarily for the making of panoramic pictures, will also be found available for much of the work ordinarily done with a view camera. In panoramic work, negatives of any length up to twelve feet may be made with the No. 10 Cirkut, and up to eighteen feet with the No. 16 Cirkut. For ordinary work, the Cirkut possesses this great advantage over the regular view camera, in that the picture may be made to conform to the ideas of the photographer, as he is not confined to arbitrary sizes. Pictures 8×11 , 8×12 , 8×14 , may be made without waste of material, or the use of special kits or adapters.



In construction, the Cirkut reverses the old principles of Panoramic Cameras. Instead of the swinging lens and stationary plate or film, the Cirkut employs a mechanism whereby the film unwinds past a slot, while the entire camera, by the same mechanism, revolves on the tripod. A pressure on the release starts the exposure, another stops it, thus negatives of

any length may be made.

Another radical difference in the Cirkut is the departure from the use of short focus lenses. It is, of course, necessary to get away from the short focus lens to eliminate the distortion and to secure true definition and perspective. This is made possible by the construction of the camera, which allows of a Convertible Anastigmat Lens, thus affording the use of three focal lengths, and meeting almost every photographic requirement. With the Cirkut it is also possible to focus accurately before making the exposure.

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, 14 or 16-inch widths. The length of the negative is determined entirely by the focal length of the lens and the angle of view desired. By using the longest focal capacity of the lens, the longest negative is secured and at the same time the largest image or magnification.

The exposure is started by a pressure of the release and stopped in the same way. Before the exposure is made, however, the scale on the tripod top will show approximately how long a negative any given view will make, so that the operator knows just where to stop the camera to close the exposure. There is also an indicator on the camera which records the total amount of film used and the quantity still remaining unexposed. There is likewise a device by which the film is perforated after each exposure. Speed regulating fans of various sizes are supplied and it is but the matter of a second to change from one size to another, thus increasing or decreasing the time of exposure, as may be desired.

For the Cirkut, we recommend the Convertible Anastigmat Lens, as for the successful operation of the Cirkut too much care cannot be exercised in the selection of a lens.

Nearly any lens of suitable focal length can be fitted to the Cirkut, but we recommend the purchase of the equipment complete as listed.

The lens supplied with the No. 10 Cirkut has an equivalent focus of 10 $\frac{1}{2}$ inches, the front lens when used alone 24 inches, the back lens 18 inches. The equivalent focus of the lens on the No. 16 is 15 inches, the front lens alone 36 inches, the back lens 24 inches.

The Cirkut Camera is provided with a focusing screen, allowing the operator to focus accurately and enabling him to see the picture on the ground glass actual size, not alone in width, but also in length.

The Cirkut has a firm Rising and Falling Front Adjustment. By means of a milled head the front may be lowered or raised and locked in position automatically.

The Cirkut Camera is constructed throughout of finest mahogany, and covered with seal grain leather. Eastman Daylight-loading Cartridge Film only is used.

The Cirkut Camera.

	No. 10	No. 16
Size of Camera.....	$9\times 12\times 12$ inches	$11\frac{1}{4}\times 14\frac{1}{2}\times 18$ inches
Focal Capacity.....	27 inches	39 inches

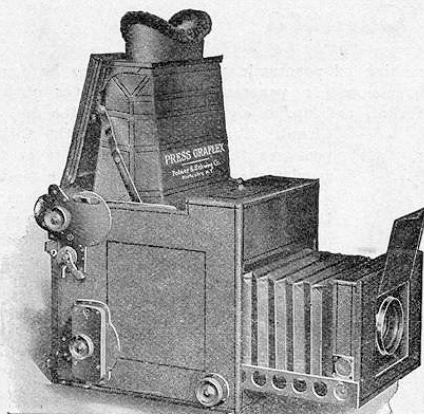
The Price.

Including Sole Leather Carrying Case for Camera and Extra Case for Tripod.

	No. 10	No. 16
Cirkut Camera fitted with Turner-Reich Convertible Anastigmat lens, Series II, and No. 4 Century Shutter.....	\$290 00	\$425 00
Cirkut Camera without Lens or Shutter.....	240 00	350 00

Graflex Cameras

Special catalogue of Graflex Cameras on request. We solicit correspondence on Lens fittings and will cheerfully advise prospective customers.



1-A GRAFLEX

	Price
Without Lens	2 1/2 x 4 1/2 \$ 60 00
With Zeiss Kodak Lens, F:6.3, No. 2	82 00
With B. & L. Zeiss Tessar Series IIb, F:6.3, No. 4	94 50
With B. & L. Zeiss Tessar Series Ic, F:4.5, No. 14	100 50
With Cooke Series IV, F:5.6, No. 25	98 00
Lens Boards	40
Sole Leather Carrying Case	6 00

3-A GRAFLEX

	3 1/4 x 5 1/4
Without Lens	\$ 75 00
With Zeiss Kodak Lens, F:6.3, No. 4	105 00
With B. & L. Zeiss Tessar Series IIb, F:6.3, No. 5a	125 50
With B. & L. Zeiss Tessar Series Ic, F:4.5, No. 15a	132 50
With B. & L. Zeiss Protar Series VIIa, F:6.3, No. 7	141 50
With Cooke Series II, F:4.5, No. 21 1/2	132 50
With Cooke Series IV, F:5.6, No. 27 1/2	129 00
Lens Boards	50
Sole Leather Carrying Case	10 00

AUTO GRAFLEX

	3 1/4 x 4 1/4	4x5	5x7
Without lens, including one double holder	\$ 55 00	\$ 65 00	\$ 80 00
With Zeiss Kodak Lens, F:6.3	77 00	92 00	120 00
With B. & L. Zeiss Tessar Series IIb, F:6.3	89 50	101 00	141 50
With B. & L. Zeiss Tessar Series Ic, F:4.5	95 50	112 00	152 00
With Cooke Series IV, F:5.6	93 00	108 00	134 00
With Cooke Lens Series II, F:4.5	96 50	112 00	146 00
Lens Boards	50	60	70
Sole Leather Carrying Case	8 00	9 00	12 00

REVOLVING L. F. AUTO GRAFLEX

	3 1/4 x 4 1/4	4x5	5x7
Without Lens, including one double holder	\$ 81 00	\$ 110 00	\$ 125 00
With Zeiss Kodak Lens, F:6.3	150 00	179 00	200 00
With B. & L. Zeiss Protar Series VIIa, F:6.3	190 50	230 00	250 00
With Cooke Series IV, F:5.6	164 00	205 00	225 00
With Cooke Lens Series II, F:4.5	167 50	211 00	231 00
Lens Boards	60	70	80
Sole Leather Carrying Case	10 00	11 00	12 00

PRESS GRAFLEX

	5x7
Without Lens, including one double holder	\$ 110 00
With Zeiss Kodak Lens, F:6.3, No. 5	150 00
With B. & L. Zeiss Tessar Series IIb, F:6.3, No. 6	171 50
With B. & L. Zeiss Tessar Series Ic, F:4.5, No. 16	182 00
With B. & L. Zeiss Protar Series VIIa, F:6.3, No. 13	215 00
With Cooke Series IV, F:5.6, No. 27	164 00
With Cooke Series II, F:4.5, No. 22	176 00
Lens Boards	75
Sole Leather Carrying Case	15 00

STEREO AUTO GRAFLEX

	5x7
Without Lenses, including one double holder	\$ 160 00
With Matched Pair Zeiss Kodak Lenses, F:6.3, No. 3	214 00
With Matched Pair B. & L. Zeiss Tessar Series IIb, F:6.3, No. 5	232 00
Lens Boards	2 00
Sole Leather Carrying Case	12 00

NATURALISTS' GRAFLEX

	4x5
Without Lens, including one double holder	\$ 150 00
With B. & L. Zeiss Protar Series VIIa, No. 19	330 00
B. & L. High Power, Telephoto Attachment	37 00
Lens Boards	75

The cases listed above have lock and key and will take holder or adapter attached (except 1A and 3A Graflex. For other cases, see lists below.)

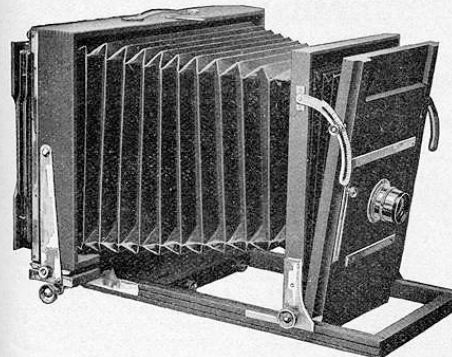
PLATE HOLDERS, ETC.

	3 1/4 x 4 1/4	4x5	5x7
Graflex Plate Holder	\$ 2 50	\$ 2 50	\$ 3 50
Graflex Magazine Plate Holder, Model B	13 00	14 50	17 00
Graflex Magazine Plate Holder, Model B	13 00	13 00	15 00
Graflex Film Pack Adapter	4 50	5 00	7 50
Graflex Cartridge Roll Holder	7 50	7 50	10 00
Graflex Color Plate Holder	4 50	5 00	6 25

SPECIAL LEATHER CARRYING CASES WITH LOCK AND KEY.

	\$4 00	\$5 00	\$8 00
Case for Six Plate Holders	9 50	10 50	14 00
Case for Auto Graflex and Magazine, or Roll Holders attached	11 00	13 00	15 00
Case for B. Auto Graflex and Magazine, or Roll Holder attached			15 00
Case for Press Graflex and Magazine, or Roll Holder attached			14 00
Case for Stereo Auto Graflex, with Magazine or Roll Holder attached			14 00

F. & S. Banquet Camera



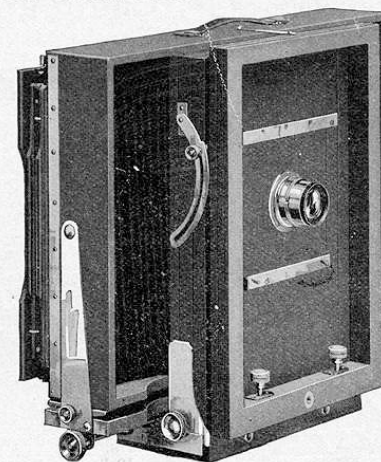
Open

F. & S. Banquet Camera

The F. & S. Banquet Camera is not only the best possible instrument for photographing large groups at banquets or other occasions where the negative must be made indoors, but it is also excellently adapted to general outdoor group and view work. The dimensions of the picture—12x20 inches—are particularly suitable for outdoor groups and general architectural purposes.

The construction of the camera permits its elevation so that when making indoor groups, those in remote parts of the room, and at the same time those close to the camera, will be included. This is accomplished by a swinging lens board with great rise and fall. By adjusting the back of the camera in a vertical position and lowering the lens board so that the optical axis of the lens will fall through the center of the plate with the lens pointing downward, the rectilinear lines of the interior of the building will be preserved and the greatest possible number of figures included in the picture.

The camera is provided with both front and back rack and pinion focusing adjustment, and the front track of the camera is wide enough to permit the sliding lens board frame to drop between the rails. A graduated section on the swinging lens board frame provides means of adjusting the angle at which the lens



Closed

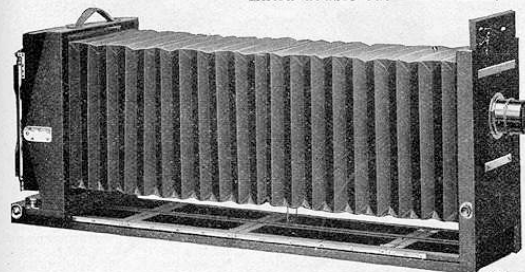
board is to be tipped, and a scale is provided for the raising and lowering adjustment. This is an exceedingly useful feature on a camera intended for interior work of this kind, as it is frequently necessary to place the camera so close to the wall that focusing is impossible. A focusing scale is adjusted to the camera bed which permits the operation of the instrument with the greatest rapidity and accuracy.

Two size tripod screw plates are fitted to the bed. The whole camera folds up compactly. The wood work is finished in hard oil, and the metal parts are of polished brass.

Specifications	12x20	22 in.
Focal capacity	24x6x19	14 lbs.
Dimensions when closed	6 1/2 x 6 1/2	
Weight		
Size of lens board		

PRICE

Banquet Camera, including carrying case and one double plate holder or cut film holder	\$68.00
Extra double plate holders, each	\$12.00
Extra double cut film holders, each	\$12.00
Extra lens boards, each	.75



Open

Commercial Camera

The F. & S. Commercial Camera is designed to meet every requirement of the commercial photographer, and is constructed so that lenses having extreme focal length, as well as those of short focus, may be utilized. Every adjustment is provided—extreme rising and lowering front actuated by rack and pinion, double swing back with excessive swing operated with quick thread screw, extra long draw of bellows with a unique bellows support.

The front of the bellows being rectangular and the full height of the camera, permits the fitting of a front with extreme rising and lowering movement, without the possibility of the bellows cutting into the image or

the puckering of the bellows. The back frame bolster is mounted on V roller bearings, which enables the back to be moved with the utmost ease and smoothness, a binding screw locking the back frame in any desired position. The extension bed is divided into four sections which interchange.

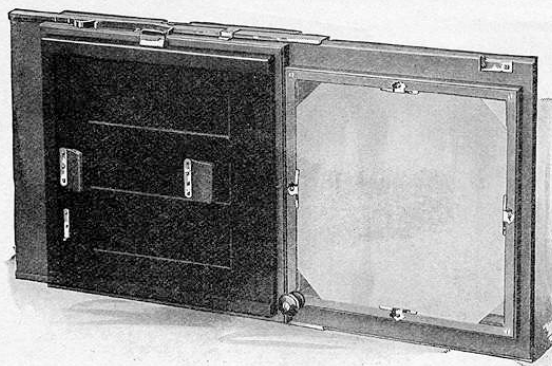
These bed sections are fitted with tripod plates, so that when the camera is used with bellows extended to full capacity, two tripods may be utilized. The camera is made from selected mahogany and cherry, all wood finished in hard oil and the metal parts are lacquered polished brass.

Specifications	8x10	11x14
Focal capacity	42 in.	54 in.
Dimensions when closed	17x8 1/2 x 13	22x10 1/2 x 17 1/2
Size of lens board	7x7	8x8

PRICE

Including carrying case and one Sterling Plate Holder:	
8x10	\$65.00
11x14	80.00
Extra 8x10 Sterling Plate Holders, each	2.50
Extra 11x14 Sterling Plate Holders, each	\$6.00
Extra 8x10 Lens Boards, each	.60
Extra 11x14 Lens Boards, each	.75

Camera Attachments



**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. The attachment is adjusted so that two exposures can be made on a plate, and the holder may be used either vertically or horizontally.

Price

No. 7 Sliding Ground Glass Carriage for 8x10 Century Studio Cameras No. 1, No. 2 and No. 7, including one 8x10 Curtain Slide Holder.....	\$19 00
Adapter Frame to fit No. 7 Carriage to 11x14 Century Studio Cameras.....	3 00
Adapter Frame to permit use of 5x7 Century Studio Holders in No. 7 Carriage.....	2 00
Extra 8x10 Curtain Slide Holders, each.....	5 50
Extra 5x7 Curtain Slide Holders, each.....	2 50

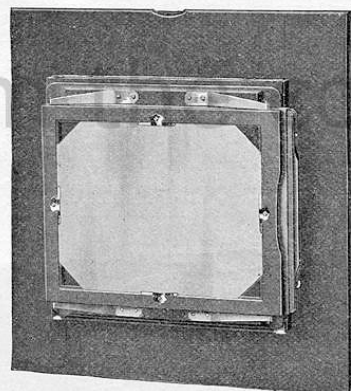
REVERSIBLE ADAPTER FOR STUDIO CAMERAS

These Adapters consist of a spring actuated ground glass back attached to a frame adjustable to the back of Century Portrait Cameras. These adapters are regularly furnished to take the Century View Plate Holder.

Price

11x14 Reversible Adapter for 11x14 Century View Holder, including one holder.....	\$16 50
11x14 Reversible Adapter for 8x10 Century View Holder, including one holder.....	13 00
11x14 Reversible Adapter for Century View Holder 5x7, including holder.....	12 00
8x10 Reversible Adapter for 8x10 Century View Holder, including one holder.....	12 50
8x10 Reversible Adapter for 6½x8½ Century View Holder, including one holder.....	12 00
8x10 Reversible Adapter for 5x7 Century View Holder, including one holder.....	11 50

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.



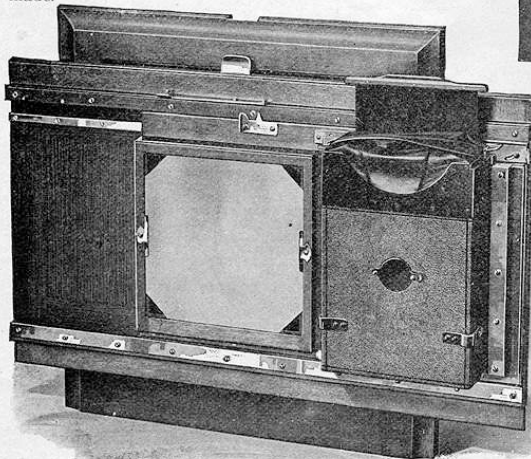
NO. 10 ATTACHMENT

This Attachment consists of a sliding ground glass carriage to which is fitted a Folmer & Schwing Model A Magazine Plate Holder carrying twelve 5x7 glass plates. This holder is fitted with a dark slide and the holder can be instantly removed for loading and unloading. It is compact, easily operated, and takes the place of twelve cabinet holders. The attachment is fitted with a device which enables the operator to make two exposures on a plate, and the Magazine Holder can be reversed in the attachment for vertical or horizontal negatives.

The No. 10 Attachment is made to fit the 8x10 Century Studio Cameras No. 1, No. 2 and No. 7.

Price

No. 10 Attachment, including sliding ground glass carriage and one 5x7 Model A Magazine Plate Holder for twelve 5x7 plates.....	\$40 00
Extra 5x7 Magazine Holders, Model A, each.....	17 00
Extra for Adapting Frame to fit No. 10 Attachment to 11x14 Century Studio Cameras No. 1, No. 2 and No. 8.....	3 00



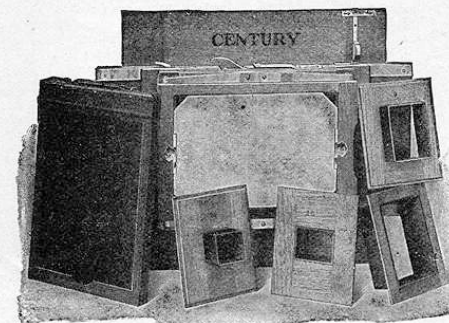
The Century Multiplying Back

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 sizes.

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 is ordered for any view camera not mentioned above, a nominal charge will be made for special fitting.



PRICE

Century Multiplying Back, 6½x8½ or 8x10, including one 5x7 Century View Plate Holder.....	\$12 00
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Reversible Backs for R. O. and Century View Cameras

5 x7.....	\$7 50	8x10.....	\$11 00
6½x8½.....	9 00	11x14.....	14 00

The F. & S. Lantern Slide Attachment

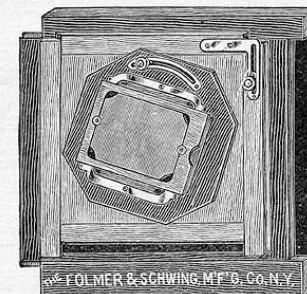
For Enlarging, Reducing and Copying Cameras

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, 3¼x4 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

F. & S. Lantern Slide Attachment, 5x7, including one Lantern Slide Plate Holder.....	\$9 00
F. & S. Lantern Slide Attachment, 8x10, including one Lantern Slide Plate Holder.....	12 50
F. & S. Lantern Slide Attachment, 11x14, including one Lantern Slide Plate Holder.....	15 00
F. & S. Lantern Slide Attachment, 14x17, including one Lantern Slide Plate Holder.....	18 00

Plate Holders

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.

	Price		
3 1/4 x 4 1/4	\$1 00	5 x 7	\$1 25
3 1/4 x 5 1/2	1 00	6 1/2 x 8 1/2	1 75
4 x 5	1 00	8 x 10	2 00

UNIVERSAL PLATE HOLDER

This holder is made for Empire State and Premo 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 board slides.

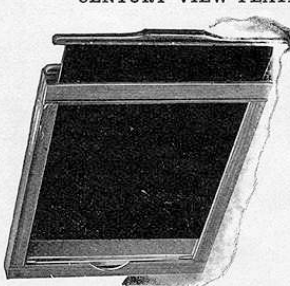
	The Price		
5 x 7	\$1 00	11x14	\$4 00
6 1/2 x 8 1/2	1 10	14x17	5 00
8 x 10	1 25		

R. O. C. 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.

	The Price		
5 x 7	\$1 00	8x10	\$1 25
6 1/2 x 8 1/2	1 10		

CENTURY VIEW PLATE HOLDER



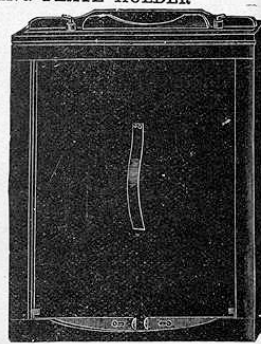
Century Plate Holders are made throughout of hard wood, all joints are dovetailed and fitted with a light-excluding cut-off, which prevents light passing through the narrow opening when the slide is inserted or withdrawn. This device is flexible, allowing the operator to insert the slide in the plate holder cornerwise without danger of fogging the plate.

	The Price		
Century View Plate Holder, 5x7	\$1 00		
Century View Plate Holder, 6 1/2 x 8 1/2	1 10		
Century View Plate Holder, 8x10	1 25		
Century View Plate Holder, 11x14	4 50		

THE STERLING PLATE HOLDER

Sterling Double Plate Holders are absolutely light 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.

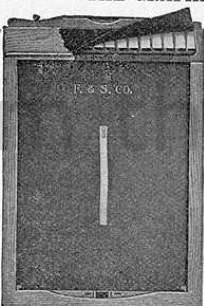
They are furnished with Sky Scraper Cameras.



The Price

Sterling Plate Holder, 8x10	\$2 50
Sterling Plate Holder, 11x14	6 00

THE GRAPHIC PLATE HOLDER



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.

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

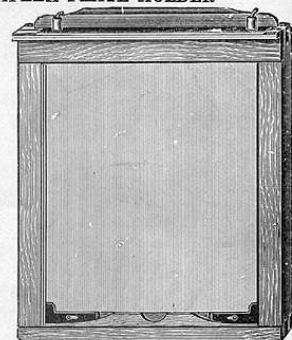
	The Price		
Graphic Plate Holder, 5x7	\$1 25		
Graphic Plate Holder, 6 1/2 x 8 1/2	1 75		
Graphic Plate Holder, 8x10	2 00		

THE GRAFLEX PLATE HOLDER

The Graflex Holder, for Graflex Cameras, is simple, strong, practical and absolutely light proof.

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

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



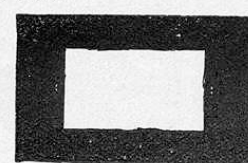
Price

3 1/4 x 4 1/4	\$2 50
4 x 5	2 50
5 x 7	3 50

Camera Sundries

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.



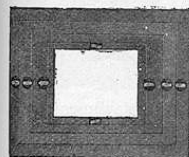
To hold	Plates	Each
4 x 5	3 1/4 x 4 1/4	\$0 20
4 1/4 x 6 1/2	3 1/4 x 4 1/4	20
5 x 7	3 1/4 x 4 1/4 or 4x5	25
5 x 8	3 1/4 x 4 1/4, 4x5 or 4 1/4 x 6 1/2	25
6 1/2 x 8 1/2	4x5, 4 1/4 x 6 1/2, 5x7 or 5x8	30
8 x 10	4 1/4 x 6 1/2, 5x7, 5x8 or 6 1/2 x 8 1/2	40
10 x 12	5x7, 6x8, 6 1/2 x 8 1/2 or 8x10	50
11 x 14	8x10 or 10x12	50
14 x 17	8x10, 10x12 or 11x14	70
17 x 20	11x14 or 14x17	1 00
18 x 22	14x17 or 17x20	1 25

KITS OR INSIDE FRAMES FOR WET PLATE HOLDERS

To hold plate	Fits in shield	Patented glass corners	Rabbeted for ferrotypes
1-9	1-4	\$0 50	.....
1-6	1-2	60	.....
1-4	1-2	65	.....
1-2	5x7	75	.....
1-2	4-4	75	.....
4 1/4 x 6 1/2	4-4	75	.....
5 x 7	8x10	90	.....
5 x 7	7x10	90	.....
5 x 7	8x10	90	.....
5 x 8	8x10	90	.....
6 1/2 x 8 1/2	8x10	1 00	.....
7 x 10	11x14	1 10	.....
8 x 10	10x12	1 20	.....
8 x 10	11x14	1 20	.....
10 x 12	14x17	1 60	.....
11 x 14	14x17	1 60	.....
14 x 17	17x20	1 80	.....
17 x 20	20x24	2 25	.....

F. & S. SPECIAL KITS.

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



	Plates	Each
4 x 5 to take 3 1/4 x 4 1/4 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 x 10 to take 6 1/2 x 8 1/2 plates, each	80
11 x 14 to take 8 x 10 plates, each	1 00
14 x 17 to take 11 x 14 plates, each	1 50

SPECIAL PLATE HOLDER SLIDES

Made of specially selected material, will not crack or split, electrify or collect dust.

5 x 7	\$0 35	8x10	\$0 55
6 1/2 x 8 1/2	45	11x14	1 00
Slides for Sterling Holders:			
8 x 10	\$0 65	11x14	\$1 50

HOLDER SLIDES

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

Size	Press-board	Hard rubber	Size	Press-board	Hard rubber
3 1/4 x 4 1/4	\$0 10	\$0 20	6 1/2 x 8 1/2	\$0 25	\$0 50
4 x 5	15	25	8 x 10	35	65
4 x 5	15	25	11 x 14	35	65
5 x 7	20	35			

CAMERA BELLOWS

Extra bellows will be supplied for cameras when desired, at the following prices:

5 x 7	Century View Camera No. 1	\$4 00
5 x 7	Century View Camera No. 2	4 50
6 1/2 x 8 1/2	Century View Camera No. 1 or No. 2	5 00
8 x 10	Century View Camera No. 1	8 00
11 x 14	Century View Camera No. 1	10 00
5 x 7	R. O. C. View Camera	3 00
6 1/2 x 8 1/2	R. O. C. View Camera	4 00
8 x 10	R. O. C. View Camera	5 00
5 x 7	Empire State Camera, or No. 2	4 00
6 1/2 x 8 1/2	Empire State Camera, or No. 2	5 00
8 x 10	Empire State Camera, or No. 2	6 00
11 x 14	Empire State Camera	8 00
14 x 17	Empire State Camera	10 00
6 1/2 x 8 1/2	Premio View Camera	7 00
8 x 10	Premio View Camera	8 00
8 x 10	Sky Scraper Camera	7 00
11 x 14	Sky Scraper Camera	9 00
8 x 10	Century Grand Portrait Camera	7 00
11 x 14	Century Grand Portrait Camera, per set	14 00
8 x 10	Century Studio Camera No. 1	6 00
8 x 10	Century Studio Camera No. 1, per set	12 00
8 x 10	Century Studio Camera No. 3	6 00
8 x 10	Century Studio Camera No. 4	6 00
5 x 7	Century Studio Camera No. 5	3 00
5 x 7	Graphic E. and R. Camera	4 00
8 x 10	Graphic E. and R. Camera	6 00
11 x 14	Graphic E. and R. Camera	6 00
6 1/2 x 8 1/2	R. B. Cycle Graphic Camera	8 00
5 x 7	R. B. Cycle Graphic Camera	6 00
8 x 10	R. B. Cycle Graphic Camera	9 00
5 x 7	Century Camera No. 46	5 00
6 1/2 x 8 1/2	Century, Model 46	6 00
5 x 7	Century Grand Senior	6 00
6 1/2 x 8 1/2	Century Grand Senior	8 00
5 x 7	Pony Premo No. 6	4 00
6 1/2 x 8 1/2	Pony Premo No. 6	5 00
5 x 7	Pony Premo No. 7	4 00
6 1/2 x 8 1/2	Pony Premo No. 7	5 00

REVERSIBLE BACKS FOR R. O. AND CENTURY VIEW CAMERAS

5 x 7	\$7 50	8x10	\$11 00
6 1/2 x 8 1/2	9 00	11x14	14 00

CANVAS CARRYING CASES FOR CENTURY VIEW CAMERAS

Century View No. 1 or No. 2	5x7	6 1/2 x 8 1/2	8x10	11x14
75 cents extra for case to hold tripod and camera.				
(11x14, \$1.50 extra.)				
75 cents extra for lock and key.				

CANVAS CARRYING CASES FOR ROCHESTER OPTICAL VIEW CAMERAS

R. O. C. View, square	5x7	6 1/2 x 8 1/2	8x10	11x14	14x17
Empire State and No. 2, long	2 00	2 25	2 50	3 25	5 00
Premio View, long	4 00	5 00			

LENS BOARDS

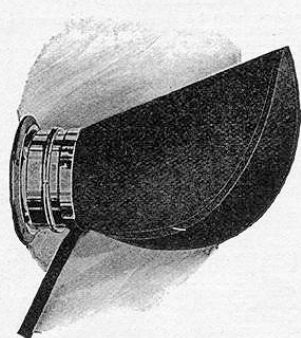
Portrait Cameras, 5x7, 7x7	\$0 75
Portrait Cameras, 8x10, 9x9	1 00
Portrait Cameras, 11x14, 10x10	1 50
Rochester Optical View Cameras, up to 8x10	50
Rochester Optical View Cameras, larger	70
Century View Cameras, up to 8x10	50
Century View Cameras, 11x14	70
Sky Scraper, 8x10	60
Sky Scraper, 11x14	75
F. & S. and Crown E. R. & C. Cameras, 8x10	1 00
F. & S. and Crown E. R. & C. Cameras, 11x14	1 25
F. & S. and Crown E. R. & C. Cameras, 14x17	1 50
F. & S. and Crown E. R. & C. Cameras, 18x22	1 75
Hand Cameras, 6 1/2 x 8 1/2	50
Hand Cameras, 8x10	50

MISCELLANEOUS SUNDRIES

Rubber Tired Casters for Studio Stand, complete, each	\$1 00
Do, per set of 4	4 00
Rubber Tired Wheels, only for Studio Stand, each	25
Wooden Casters, complete, per set	1 00
R. O. Tripod Head Screws	40
Crown Tripod Head Screws	35
Professional Tripod Head Screws	35
*Tan Straps for R. O. View Carrying Cases, with buckle, 24, 40 and 44 inches	25
*Do, 52, 60, 66 inches	30
*Specify style and size of camera when ordering.	

Camera Sundries

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 $3\frac{1}{2}$ 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	
No. 0, for lenses $2\frac{1}{2}$ to $3\frac{1}{2}$ in. diameter.....	\$1 50
No. 1, for lenses $3\frac{1}{2}$ to $4\frac{1}{2}$ in. diameter.....	2 00
No. 2, for lenses $4\frac{1}{2}$ to 6 in. diameter.....	2 50

EASTMAN PROFESSIONAL FOCUSING CLOTH

A first-class durable article, made of extra heavy cloth, a full yard and a quarter square, with bound edges.

Eastman Professional Focusing Cloth.....	\$0 75
Eastman Home Portrait Focusing Cloth, 40x48 inches	1 00

R. O. C. VIEW FOCUSING CLOTH

A good, big, generous focusing cloth, 4 feet square. Made of first quality, specially treated cloth, light in weight, and light and water proof.

Price	
R. O. C. View Focusing Cloth.....	\$0 75

RUBBER FOCUSING CLOTH

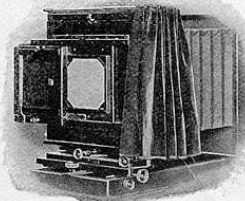
First quality cloth medium weight, one yard wide.

Price	
Rubber Cloth, per yard.....	\$0 50
Eastman Home Portrait Focus Cloth	1 00

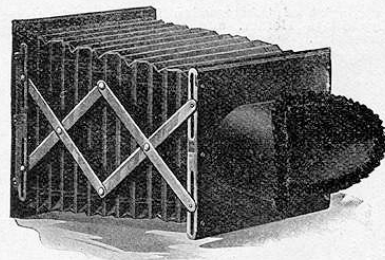
EASTMAN FOCUSING CURTAIN

As shown in the illustration this curtain does away entirely with the inconvenient and unsightly focusing cloth. The velvet curtain slides easily on the rod, and plate holders or any attachments are readily adjusted without inconvenience. The rod is adjustable and the curtain may be fitted to any portrait camera from 8x10 to 14x17.

Price	
Eastman Focusing Curtain.....	\$5 00



THE FLEXIBLE FOCUSING ATTACHMENT



The Flexible Focusing Attachment can be fitted to any of the Century ground glass carriages. It dispenses with focusing cloths and curtains, and is constructed in such a manner that the light is effectively excluded, allowing the entire image to be accurately focused.

The Flexible Focusing Attachment adds much to the appearance of the studio outfit.

Price

No. 1 Flexible Focusing Attachment, 5x 7....	\$6 00
No. 2 Flexible Focusing Attachment, 8x10....	8 00

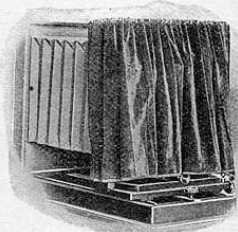
CORNELL LENS HOOD



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 sideways when working towards the light, and the camera will not move if you run against it.

Lens Hood and Attachments, each.....	\$3 50
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Camera Stands

CENTURY GRAND STAND No. 2 AND CENTURY STAND No. 1



The Century No. 2 Stand is entirely new in design. This stand is the result of an effort to produce the best Camera Stand ever made.

The Century No. 2 Stand is made of mahogany, insuring solidity and strength without adding weight, and also enhancing greatly the general appearance of the stand.

All weights, beveled gears, set screws, bolts, ratchets, levers, etc., have been dispensed with and as a result this stand is devoid of complicated parts, and is perfectly rigid, strong and durable.

The top, which supports the camera, is raised or lowered by a turn of a direct drive adjusting wheel, placed at the back. This wheel is within easy reach of the operator when standing in his natural position at the rear of the camera. So accurately is the stand balanced that the adjusting wheel revolves with the utmost freedom. Only one revolution of the wheel is necessary to raise or lower the top three full inches—a most important consideration.

The tilting device for elevating the rear of the camera is constructed on an entirely new principle. It is the most rapid and accurate adjustment ever devised.

By turning the small rod attached to cog wheel, near the base, the counter-balance is changed to accommodate cameras of different weights. All Century Stands are fitted with rubber-bound casters and Camera Stand Jacks. The top is covered with fine felt and all metal parts are beautifully oxidized.

Price

	8x10	11x14
Century Grand Stand No. 2.....	\$27 50	\$29 00
Century Stand No. 1 is the same as No. 2 except that it is not so highly finished	22 00	23 50

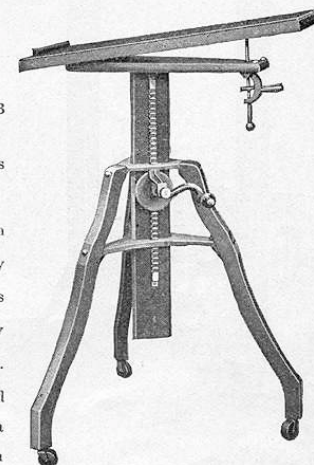
CENTURY CAMERA STAND No. 3

The Stand is made of hard wood 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 careful workmanship.

Price	\$8 00
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CENTURY CAMERA STAND No. 4

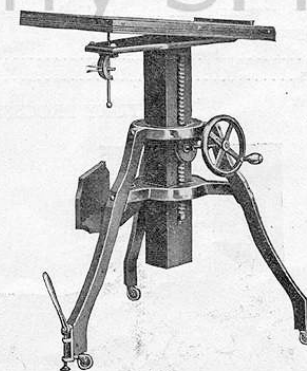
This stand is a most substantial piece of apparatus, bearing evidence of most painstaking workmanship in every particular. No part has been slighted. It is

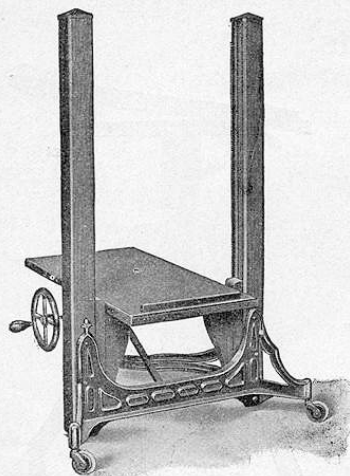
raised and lowered by a hand-wheel operating a rack and pinion and is locked automatically in position. The movement is quick and easy.

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 oxidized. The top is supplied with the Century Automatic Tilting Device and is covered with felt. A plateholder rack is attached in a convenient position.

Price	\$12 00
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Camera Stands

CENTURY SEMI-CENTENNIAL STAND

The many advantages of the Semi-Centennial Stand are instantly apparent as the platform may be elevated to 49 inches or depressed to within 14 inches of the floor. The back of the stand is raised and lowered by simply turning a conveniently located handle. The tilting device is positive in action, self-locking, and does not jar the camera when released.

The stand is raised and lowered by pinions engaging vertical racks attached to the uprights, a unique locking device holding the platform in any required position, irrespective of the size and weight of camera. The frame and the uprights are heavy and solid in construction, avoiding vibration. A jack for locking the stand in position on the floor, and noiseless rubber bound casters are provided.

Height, 51 inches; size of platform, 17x31 inches; maximum elevation, 49 inches; maximum depression, 14 inches from floor; floor space, 29x33 inches; finish, mahogany. Crated ready for shipment.

PRICE

Century Semi-Centennial
Stand.....\$25 00
Stand fitted for 11x14
Camera.....\$27 50

CENTURY STUDIO STAND No. 6

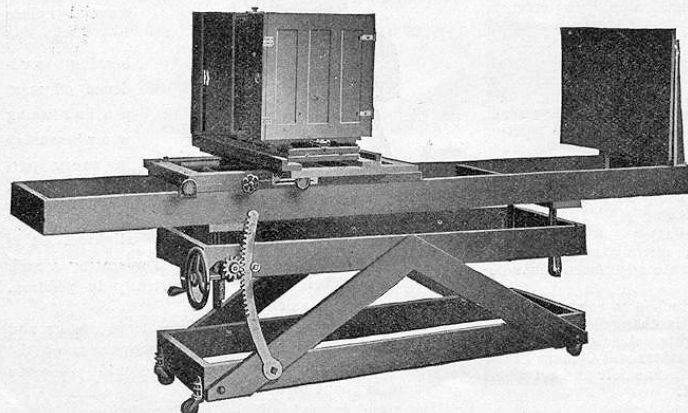
This fills the demand for a cheap and durable stand for the small studio. It is useful for penny picture cameras, post-card work, etc.

The stand is raised and lowered by a direct drive-screw device which is self-locking. The motion is rapid and accurate. The top can be tilted easily and quickly to any angle.

The bed is very large and will take an 11x14 camera if desired. The finish is mahogany color.

Price\$6 00
Price, with Casters 6 75

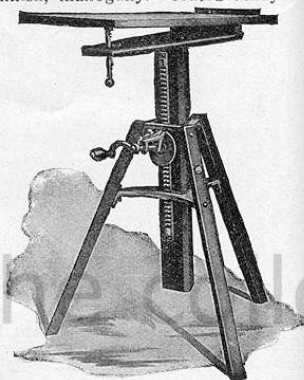
CENTURY PROCESS CAMERA STAND



feature in doing work with a prism. Prices include adjustable copy board.

THE PRICE.

Century Process Camera Stand No. 1 for 11x14 or smaller Cameras, 10-ft. bed.....\$65 00
Century Process Camera Stand No. 2 for 14x17 or smaller Cameras, 14-ft. bed.....80 00



TRIPODS

CARLTON SLIDING TRIPOD

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

Style	No.	Size of Camera	lbs	Wt	Pr.
1	5x 7 and smaller	1	15	\$2 00	
2	5x 8 and 6 1/2x8 1/2	2	12	2 50	
3	8x10 and 10 x 12	4	15	3 00	
4	11x14 and 14 x 17			4 00	

COMBINATION TRIPOD

This tripod is made on the sliding and folding principle, which produces a very compact as well as a rigid support. The wood parts are ash and the finish of the very best. The trimmings are of brass with lacquer finish. The length when fully extended is fifty-six inches, when folded twenty-two inches.

Style	No.	Size of Camera	lbs	W't	Pr.
2½	6½x8½	and smaller	2	3	\$3 00
3	8x10 and 10x12		4	6	3 50
4	11x14 and 14x17		7	1	4 50
5	17x20 and 20x24		8	8	6 00

R. O. C. TRIPOD

The R. O. C. tripod is of the combination type. The wood parts are maple, beautifully finished in natural color. The head is metal with wooden top, leather covered. The clamp bands are of new design, which permits clamping more readily than with milled head nuts as usually supplied. Length extended, fifty-six inches; when folded, twenty-two inches.

Style	Weight	Price
R. O. C. Tripod	34 lbs	\$1 70

FLEXPOT SLIDING TRIPOD

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

Price.....90c

PREMO TRIPOD

Very light and compact, as well as rigid, makes this a very popular tripod. The construction consists of four sections, the first sliding into the second, these two into the third, while the upper section folds back upon the third. A patent locking device found only on Premo tripods, produces extreme rigidity. The length when extended is 55 inches, when folded 17 inches only.

The No. 2 is constructed of spruce, natural finish, with buffed brass trimmings, lacquer finish and aluminum head. The No. 4 is ash with Flemish oak finish, with metal parts nicked and wooden head.

Style	Size of Camera	Weight	Prices
No. 2	4 x5 and 5x7	1 lb. 7 ozs.	\$5 00
No. 4	6 1/2x8 1/2 and 8x10	4 lbs. 2 ozs.	7 00

Kodak Tripods METAL

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

Has telescoping legs of brass tubing—lower ones nicked—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.

Kodak Metal Tripod

	Sections	Closed inches	Length Extended inches	Weight ounces	Price
No. 0	3	15 1/2	39 1/2	15	\$1 60
No. 1	4	15	48 1/2	24 1/2	2 50
No. 2	5	13 1/2	49 1/2	25	3 25

Leather Carrying Case, either style 1 50

Tripod Stands, Etc.

CROWN TRIPOD



In this tripod, the lower section telescopes into the second, the second into the third, while the fourth folds back. The stock is straight-grained cherry, which has been toughened and waterproofed by an oil bath. Taper pins in the ear pieces of the head fit snugly into the metal top of the sockets, thus preventing side play. Expansion brackets prevent collapse of tripod legs when tripod is grasped by the hand. This is an invaluable feature.

No.	Top	Weight	Price	Length	Price
			Extended	Closed	
1	4 in.	36 oz.	4 1-3 ft.	16 1/4 in.	\$5 50
2	6 in.	65 oz.	4 2-3 ft.	17 1/4 in.	6 00
3	6 in.	70 oz.	5 1-2 ft.	20 in.	7 50

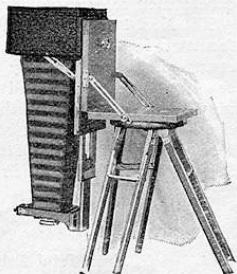
NO. 1 PROFESSIONAL TRIPOD

The Professional Tripod is provided with expansion brackets in the upper section, which make it impossible for the legs to be detached from the head until the brackets are folded. This method of construction also considerably increases its rigidity.

In other respects it is similar to the Crown Tripod. When closed for carrying this tripod measures 24 1/2 inches in length. Extended for use, 4 feet 10 inches. Diameter of top, 11 1/2 inches. Weight, 11 1/2 pounds.

Price
For cameras up to and including 14x17.....\$12 50

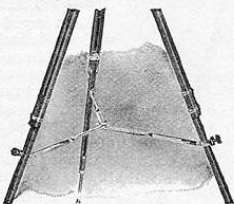
CROWN TILTING TRIPOD TOP



By the aid of this attachment the camera may be tilted at any angle upward or downward, and permits of the camera being reversed instantly for vertical pictures without changing the camera back or removing the camera from the tripod.

Price, each, No. 1.....	\$2 00
Price, each, No. 2.....	2 50

EASTMAN TRIPOD BRACE



Those who have dropped a camera through the legs spreading on slippery pavements or polished floors, or had an expensive outfit upset by the wind will appreciate the protection which this device will give. It locks the tripod legs securely, preventing vibration, and can be attached and detached easily. It is just the thing for circuit tripods, home portraiture or telephotography, where rigidity is important.

Price\$1 00

R. O. C. TRIPOD TRUCK



A handy attachment for converting the tripod into a light and rigid studio stand. It has three folding arms which are provided with sockets for the tripod legs. When set up the legs may be locked into the sockets. It is provided with casters. The photographer will find it invaluable in home portraiture, copying or on slippery floors, where the tripod slips.

Price, No. 1.....\$1 00; No. 2.....\$1 25

THE CENTURY "12-FOOT" TRIPOD

This tripod is made exceedingly strong and rigid, and as its name indicates, is designed 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.

The Price

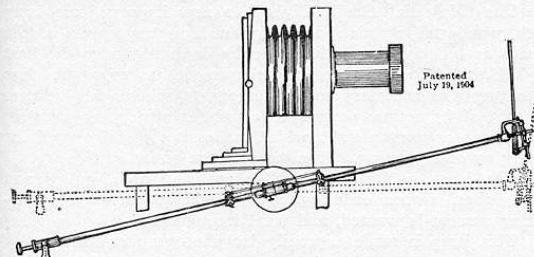
Century "12-Foot" Tripod, complete	\$18 00
Legs only	15 00

CIRKUT TRIPODS

Regular Combination Cirkut Tripod for No. 10	
Camera, length 4 ft. 8 in., legs only.....	\$ 6 00
Regular Combination Cirkut Tripod for No. 16	
Camera, length 5 ft., legs only.....	7 50
Special Combination Cirkut Tripod for No. 10	
Camera, length 12 ft., legs only.....	12 00
Tripod Screws, regular, each.....	25
Tripod Screws, large, each.....	35

Camera Sundries

CENTURY VIGNETTER



At last—a thoroughly practical Vignetter, without chains, flexible cables, sliding parts or screw adjustments. This, in brief, is a description of the Century.

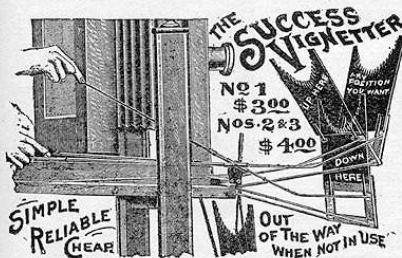
It is attached at the side of the stand, within easy reach, yet does not interfere with the operator's movements about the stand. It is so constructed that when focusing under the cloth the photographer has perfect control of the Vignetter and the card can be raised to a perpendicular or lowered to the floor, and at the same time rocked, oscillated or moved forward and back to produce any desired effect. These movements are all made with one hand, are accurate, noiseless and smooth, the parts all working in straight lines, thus obviating any chance to cramp or bind.

The Century Vignetter is offered entirely on its merits, and once attached to your camera will never be discarded, for its value as a studio accessory cannot be overestimated. It not only saves time, labor and patience, but enables the operator to produce finer work. When the Vignetter is not in use it can be adjusted to a perpendicular position, with the card over the camera, and in this position it will serve as a lens-hood. We guarantee full satisfaction to every purchaser. Price, complete, \$8 00

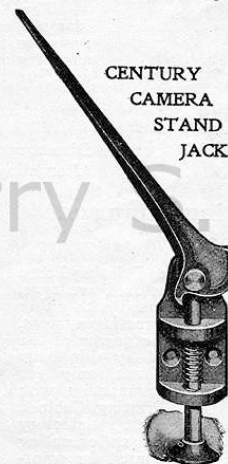
DIXIE VIGNETTER

The Dixie Vignettors are made to attach quickly to any printing frame. They are adjustable to make any size or shape vignette by simply moving the leaves in the opening. Any part of a negative may be vignetted as the vignetter is adjustable.

3 1/4 x 4 1/4, each.....	\$0 30	5 x 8, each.....	\$0 30
4 x 5, each.....	30	6 1/2 x 8 1/2, each.....	45
5 x 7, each.....	30	8 x 10, each.....	60



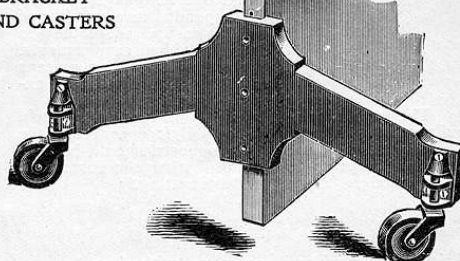
CENTURY CAMERA STAND JACK



The Century Jack is a most convenient and useful device for elevating the rear part of stand to prevent accidental movement. By throwing the arm or lever to the right the two rear casters are removed from the floor and the weight transferred to base of Jack. In this position the outfit remains rigid and immovable. By pushing the lever to the left the casters are again brought into action, so that the outfit can be quickly moved to any desired position.

Price\$1 00

CENTURY BACKGROUND BRACKET AND CASTERS

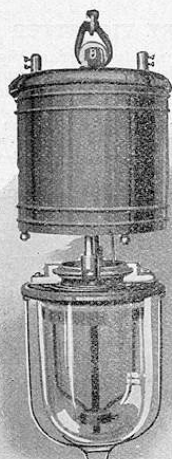


This bracket is well made of ark and neatly finished in varnish. As will be noted from the illustration, it has a groove and screw holes for adjusting back grounds or screens. It is fitted with our non-detachable caster which cannot drop out of place. Price, complete, per pair.....\$2 00
Extra Casters, plain wood wheels, set of four, per set..... 1 00
Extra Casters, iron wheels with rubber tires per set of four 4 00

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.

For nickel plated trimmings add \$1 EXTRA.

The Majestic Studio Light



The "Majestic" Studio Light is a new improved arc lamp with wonderful actinic power for making exposures in the studio as quickly as can be made by daylight under the best skylights, and for printing and enlarging it has no equal. For operating it is necessary to use screens to subdue the light on account of its actinic power. The light is steady, no jumping of carbons or uneven light, which makes it especially good for enlarging and printing. It gives an ultra violet ray.

The lamp is furnished with rheostat, switch, pulley and two globes. When ordering, specify whether direct or alternating current is wanted, and what frequency.

This lamp is made expressly for photographers' use.

Price

Complete, each.....\$60 00

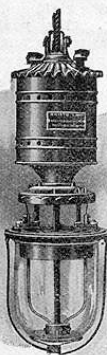
The Artura Arc Lamp

The Artura Arc Lamp is well known by the photographers. Has a special pattern copper case and arc is wound to our specifications for Photographic Printing. The lamp uses small carbons affording a steady light and minimum consumption of current and low in price.

Price

Direct current for 100 to 250 current, each..... \$20 00
Alternating current 100 to 250 current, each..... 25 00

The Aristo Printing Lamp and Cabinet



The Aristo Printing Lamp is of the enclosed arc type, and may be used with either direct or alternating current.

The actinic power of the light afforded by this lamp is sufficient not only for printing in connection with the Aristo Printing Cabinet, but is also most satisfactory when used as an operating light. When used for printing, the lamp is suspended in the center of the Aristo Printing Cabinet. When used as an operating light, it may be suspended in a number of ways, easily adaptable to meet individual requirements. Special reflectors or screens may be utilized to meet existing conditions.

The lamps are furnished with a rheostat, switch, pulley and two glass globes. Before ordering the local electrical power supply concern should be consulted in order to ascertain whether the current to be supplied is "direct" or "alternating."

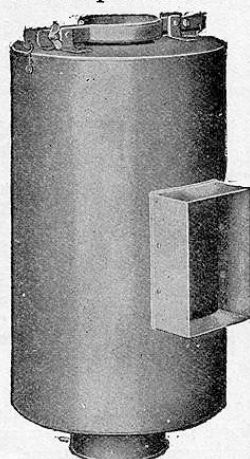
Price

Aristo Printing Lamp, complete, with rheostat, two globes, switch and pulley..... \$75 00
Aristo Printing Cabinet (only)..... 40 00
Aristo Printing Cabinet, crated ready for shipment, and Aristo Printing Lamp, complete 115 00

A large number of photographers who are using the Aristo Lamp for printing and operating, can effect a considerable saving by making their own enlargements.

The F. & S. Aristo Lamp Jacket is a device that fits snugly over the lamp, allowing no light to escape except into the cone of the enlarging camera. With the Aristo Lamp Jacket and the Graphic Enlarging and Reducing Camera, the photographer is enabled to make Nepera, Velox or Bromide enlargements up to any size in the printing or operating room, without going to the expense and inconvenience of fitting up a special room.

The jacket is constructed entirely of metal and assembled in the most substantial manner. It may be quickly attached to the lamp, and readily removed whenever it is necessary to put in new carbons or adjust the lamp.

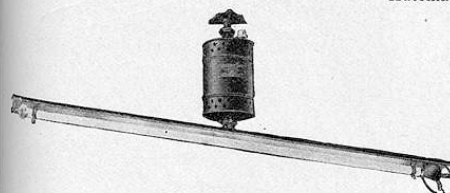


Price

F. & S. Aristo Lamp Jacket..... \$10 00

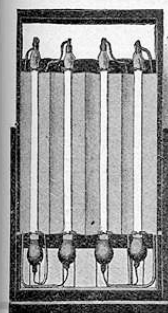
Cooper Hewitt Electric Lamps

Portraiture, Printing, Photo-engraving, Motion Picture Studios, Copying and Enlarging.
Automatic Lighting.



TYPE P.

Enlarging



Outfit No. 19

With resistances for operating all four tubes in series on 200-250V DC, without stand..... 105 00
Special wooden stand, similar to outfit No. 44, each 10 00
Renewal: Type H tube, No. 5036..... 11 00
Special No. 19 Outfit—Direct Current—For Enlarging Negatives up to 8x10 and smaller. Three 10 in. tubes, resistance, reflector and clamps, without stand.....

DIRECT CURRENT—Outfit No. 20

Printing Area, 12x20 inches

Two H tubes, holder, reflector and resistance with iron stand 100 to 125 volts D. C.....\$ 62 50

With resistances for operating two outfits in series on 200-250 V. D. C. with two iron stands at \$85 00 each 130 00

Iron stand, each..... 5 00
Renewal: Type H tube, No. 5036, each 11 00

DIRECT CURRENT—Outfit No. 17

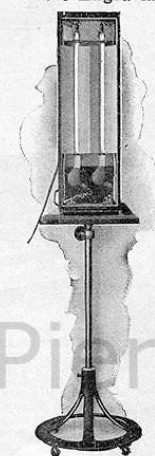
Both similar to Outfit No. 20, but equipped with one tube only.

No. 17 complete, with iron stand..\$ 35 00
Renewal: H tube No. 5036..... 11 00



TYPE F.

Photo-Engraving



Outfit No. 20

Voltage of supply.....100-124
Average current, amperes..... 3.5
Total watts, (110 volts, 3.5 amperes)..... 385
Candle power, mean hemispherical, with reflector..... 800
Commercial efficiency—watts per candle48
Length of light-giving tube.....50 inches
Diameter of tube.....1 inch
\$45 00.....renewal P tube \$15 00

TYPE F BULLETIN NO. 40

Alternating Current 60 CYCLES Automatic Lighting

Line voltage Range	Candle-Power	Watts	Power Factor	Watts per Candle
95-104	670-850	350-430	0.50	0.52-0.51
105-114				50
115-124				55 1/2
190-209				1 inch
210-229				
230-249				

\$50 00.....renewal F tube \$15 00

DIRECT CURRENT

Outfit No. 19

Enlarging from all sized negatives up to 11x14. Four type H tubes, holder reflectors and resistances, without stand, 100-125 V. D. C.....\$110 00

With resistances for operating all four tubes in series on 200-250V DC, without stand..... 105 00
Special wooden stand, similar to outfit No. 44, each 10 00
Renewal: Type H tube, No. 5036..... 11 00

ALTERNATING CURRENT

Outfit No. 44

Similar to No. 19 Outfit

Four type C tubes, holders, reflectors, auto-transformers, resistances and stand, for either 100-125 v., 60-133 cycles, or 250 v-60 to 133 cycles.....\$140 00

Renewal: Type C tube, No. 5116, each..... 13 50

Three 10 in. tubes, resistance, reflector and clamps, without stand.....\$60 00

ALTERNATING CURRENT—

Outfit No. 42

Similar to Outfit No. 20

Two C tubes, holder, reflectors, auto-transformers, and resistances mounted on wooden stand, for 100-125 volts A. C., 60-133 cycles.....\$ 75 00

Two outfits—with resistances for operating in multiple on 200-250 V., 60-133 cycles, with two stands at \$75 00 each..... 150 00

Renewals: Type C tubes, No. 5116 each 13 50

ALTERNATING CURRENT

Outfit No. 41

No. 41 complete, with iron stand..\$ 45 00
Renewal: C tube No. 5116..... 13 50

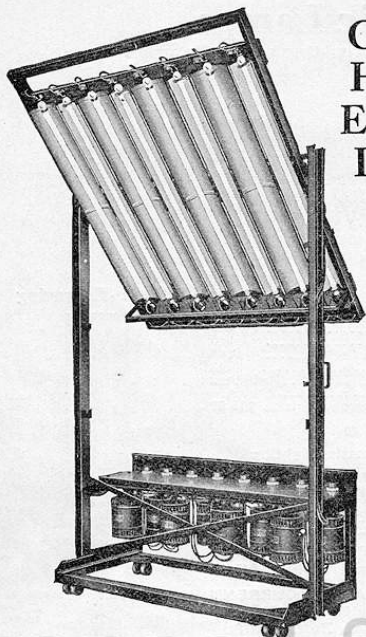
HOME PORTRAIT OUTFIT DIRECT CURRENT PORTABLE OUTFIT

Consists of two H tubes, aluminum holder, red reflector, collapsible tripod, weight 30 lbs.....\$ 75 00

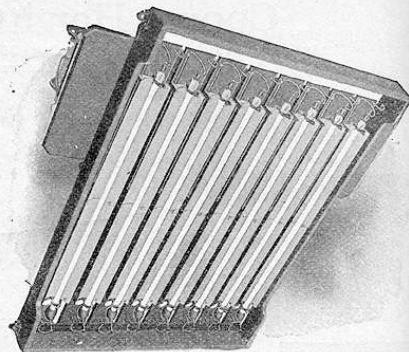
Alternating current outfit equipped with one type C tube, weight 45 lbs..... 55 00



Home Portrait Outfit



Cooper Hewitt Electric Lamps



DESCRIPTION AND PRICES OF SKYLIGHT FRAMES
Skylight Frames contain from five to eight standard Cooper Hewitt Lamp tubes, with all necessary accessories ready for installation, which can be readily done by any electrician. Each tube is connected to a separate switch, thus permitting the lamps to be burned in any combination desired.

SKYLIGHT FRAMES

For 60 Cycles Alternating Current Supply

5 Type F Lamps, Standard Reflectors..... \$270 00
6 Type F Lamps, Standard Reflectors..... 320 00
8 Type F Lamps, Standard Reflectors..... 420 00

For 100 to 120 Volts Direct Current Supply

5 Type P Lamps, Standard Reflectors..... \$245 00
6 Type P Lamps, Standard Reflectors..... 290 00
8 Type P Lamps, Standard Reflectors..... 380 00

COOPER HEWITT TRANSFORMING REFLECTORS

Where furnished with original outfits in place of the Standard White reflector are \$2.00 extra for each lamp in the outfit. Where complete reflector-holders and Transforming Reflectors are required for outfits originally equipped with Standard Reflector, the price is \$10.00 for each lamp.

Skylight Frame in Wooden Standard

The Skylight Frame may be hung from the ceiling, but is preferably mounted on a stand. This admits of the frame being used at three elevations, namely six, seven and a half and nine feet from the floor to the centre of the tube, and of being moved into any position. Standard Iron Stands with any of the above, extra..... \$ 75 00
Special wooden Stands (De Luxe), extra..... 140 00

The peculiar effect of the familiar Cooper Hewitt Light upon the complexion, which has probably deterred some from using it for high-class studio work, may now be entirely removed by the use of the new Transformation Reflectors, which convert a portion of the violet rays into red, thus giving the light a warm, rosy hue, which is particularly agreeable to the complexion.

ALTERNATING CURRENT

Outfit No. 46

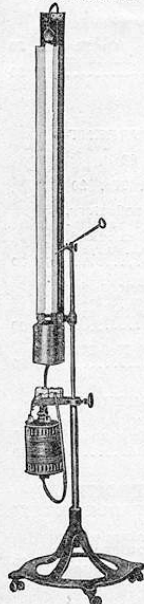
Specifications

Tube: length of the straight glass..... 50 inches
Tube: total overall..... 55 1/2 inches
Tube: between clamps..... 49 inches
Reflector: width, 5"; length 48 3/4 in.
Height from floor to middle of Tube, mounted on stand, variable from..... 33 to 53 inches
Total average current consumed by one No. 46 Outfit..... 350 to 430 Watts
Total average cost per hour for current:
At 5c rate per K. W. H..... 2 cents
At 10c rate per K. W. H..... 4 cents
Note:—Outfit No. 46 is adjustable and may be used with the Tube in either vertical or horizontal position.

Outfit No. 46 is equipped with a 50 inch, automatic lighting, Type F Tube

Prices

Outfit No. 46: One Type F Tube, Holder, Reflector, and Auxiliary with Stand for either 100 to 120 volts, 60 cycles, A. C., or for 200 to 240 volts, 60 cycles—not both..... \$60 00
Renewals: Type F Tubes, Spec. No. 5114 each Tube..... 15 00
Weights: Outfit No. 46 Gross, packed for domestic, freight or express shipment, 160 lbs. Net weight, 75 pounds.



Outfit No. 46
Tube Vertical

DIRECT CURRENT OUTFIT No. 47

No. 47 is equipped with a 50 inch, automatic lighting, Type P Tube

Prices

Outfit No. 35: One Type P Tube, Holder, Reflector and Resistance with Iron Stand, 100 to 125 volts D. C..... \$50 00
Renewal: Type P Tubes, Specification No. 5055, each tube..... 15 00
Weights: Outfit No. 47 Gross, packed for domestic, freight or express shipment, 160 pounds. Net weight, 70 pounds.

ALTERNATING CURRENT—Outfit No. 48

Specifications

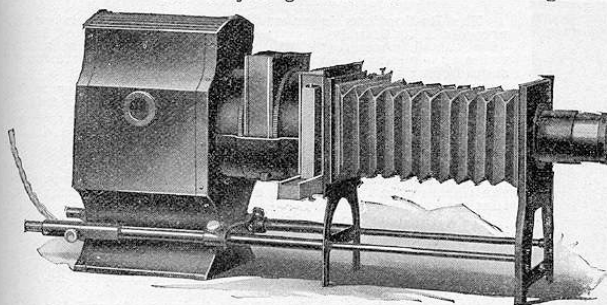
Tube: length of the straight glass..... 20 3/4 inches
Tube: total overall..... 27 inches
Tube: between clamps..... 19 1/2 inches
Reflector: total width, 12"; height 19 1/2 inches
Height from floor to middle of Tube, mounted on stand, variable from..... 48 to 66 inches
Total Average Current consumed by one No. 48 Outfit..... 550 watts
Total average cost per hour for current:
At 5c rate per K. W. H..... 2 3/4 cents
At 10c rate per K. W. H..... 5 1/2 cents
Note:—Outfit No. 48 can be used with Tubes vertically only. This Outfit is pivoted at the sides and the tops of the Tubes are tilted forward and down for lighting.

Prices

Outfit No. 48: Two Type C Tubes, Holder, Reflectors, Auto-transformer and Resistances mounted on wooden stand, for 100 to 125 volts A. C., 60 to 133 cycles..... \$ 75 00
Two Outfits No. 48: With Resistances for operating in multiple on 200 to 250 volts, 60 to 133 cycles, with two Stands, @ \$75.00 each..... 150 00
Renewals: Type C Tubes, Spec. No. 5115, each Tube..... 13 50
Weights: Outfit No. 48, Gross, packed for domestic, freight or express shipment, 235 pounds. Net weight, 95 pounds.

The Kodiopticon

For Projecting Lantern Slides and Making Bromide Enlargements.



The Kodiopticon is the simplest and most efficient projecting lantern on the market for the home entertainment. Simple to operate. It consists of a metal lamp house regularly fitted with a powerful Mazda lamp, a pair of condensing lenses with water cell between a double lantern slide carrier, adjustable bellows for focusing projecting lens.

The entire outfit is contained in a neat wooden box case, the cover of which may be inverted, making a neat stand for the instrument. Connection is made with the ordinary electric lamp socket by means of a cord and plug, which is a part of the equipment.

The Kodiopticon may be set up ready for use in a moment in any room of the home, where a distance of ten feet or more may be had between the lens and screen,

on which the pictures are to be shown. Greater or less distance may be used, but ten feet will give a large picture with perfect illumination. The double lantern slide carrier permits one to place a second slide in position while the first is being shown. Any regulation lantern slide may be used, but slides made on the new Velox lantern slide film are recommended on account of their flexibility, lightness, and the ease by which they are made.

For those who prefer a more powerful illumination than the Mazda (Tungsten) lamp, a simply constructed hand feed arc lamp with rheostat accommodating 110 or 220 volts will be furnished at a slightly higher price. This arc lamp gives a more powerful light and permits one to project a somewhat larger picture with perfect illumination.

The Kodiopticon may be used for making enlargements on either Velox Artura or bromide papers from film or glass negatives 3 1/4 x 4 or smaller. For home enjoyment there is nothing better than to make slides from your negatives and project them with a Kodiopticon.

DESCRIPTION AND PRICE

Kodiopticon complete with Mazda lamp.....	\$20.00
Do, with Hand Feed Arc Lamp and 5 Ampere Rheostat for 110 Volts.....	29.00
Do, with Hand Feed Arc Lamp and 5 Ampere Rheostat for 220 Volts.....	30.50
Eastman's Portable Background Carrier for holding Screen.....	3.00
White Background 4x5 feet for Screen.....	1.50
Velox Lantern Slide Film, per dozen.....	.35
Velox Lantern Slide Mats, per dozen.....	.20
Velox Lantern Slide Mats, per dozen.....	.05
Lantern Slide Film Varnish, 4 oz. bottle.....	.25
Velox Transparent Water Color Stamp Book of 12.....	.25

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 300 enlargements per day. The possession of this outfit will give such facilities for making enlargements that demand can be readily increased. It is especially suitable for making enlargements on Artura Carbon Black, Azo, or Bromide papers. Also for making enlarged negatives or transparencies and lantern slides by reduction. It can also be used for projecting lantern slides for entertainments and in the home.

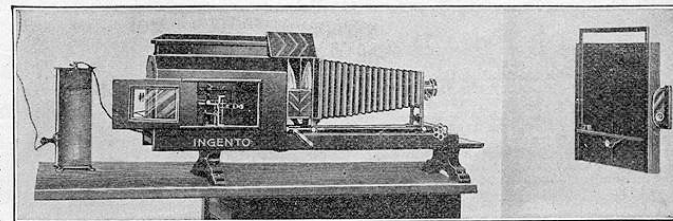
The Ingento Enlarging Outfit is made in two sizes: No. 1 with 6 1/2 in. condensing lenses for 4x5 or smaller negatives. No. 3 with 9 in. condensing lenses for 5x7 or smaller negatives. They are supplied with Ingento Rheostat No. 1, 25 amperes giving from 2000 to 3000 candle power. Ingento Rheostat No. 2, 15 amperes from 1000 to 2000 candle power, or Ingento Rheostat No. 3, 7 amperes producing 500 to 1000 candle power. The Nos. 1 and 2 are to be connected to the direct supply wire of the incandescent current. The No. 3 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 degree arc lamp rheostat, wiring, combination fuse block and knife switch, condensing lenses, ground glass diffusing screen, and reversible negative carrier for glass or film negatives (but without projecting 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 enlarging easel, Style B, with adjustable frame for centering, registering and adjusting the enlargements.

PRICES

A-1 Outfit complete with 6 1/2 inch Condensing Lenses as described above without Projecting Lens for 4x5 or smaller Negatives.....	\$52.00
A-2 Outfit complete with 9 inch Condensing Lenses as described above without Projecting Lens for 5x7 or smaller Negatives.....	95.00
No. 1 Ajax Portrait Projecting Lens with No. A-1 Outfit.....	9.00
No. 2 Ajax Portrait Projecting Lens with No. A-3 Outfit.....	14.00



Radioptican Projectors



The Radioptican is an easily operated instrument which projects a brilliantly illuminated and greatly enlarged image of postcard, photograph or object on any white screen. Its value as a means of education, amusement and entertainment should command for it a place in every home.

Far brighter and larger pictures than any other make. Shows photographs and dull pictures when all others fail.

Large sized, accurately computed parabolic reflectors (non-tarnishing) aid in giving an illumination double that of any competing instruments of like price.

No over-heating—asbestos lined double tops.

Ventilators on even the electric machines and triple shell ventilators on all gas models aid in a decidedly superior ventilating system.

No paint used. Odors eliminated. No solder used. Breakage eliminated.

Not limited to pictures of post card size. Adjustable holders (patented) of various models take pictures up to 5x7 inches, and hold them in focus, motionless, and with no light let out into the room.

Altogether the most durable projector made and the only one with bolt construction throughout. May be taken completely apart.

Combination Radiopticans project both opaque pictures and lantern slides.

Electric Radiopticans are equipped with powerful incandescent lamps and connect with any electric light socket.

Gas Radiopticans are furnished with regular mantles and burners of the highest grade. They attach to any gas jet. The Acetylene Radioptican is for use anywhere where electricity or gas are not available.

The carbide used is the same as in bicycles and automobile lamps.

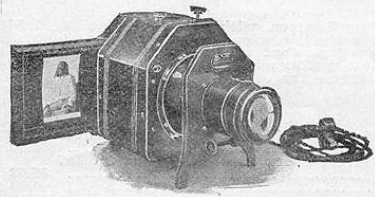
Radiopticans are made in various models to meet all conditions.

No.	Name	Illuminant	Price	No.	Name	Illuminant	Price
411	Radioptican	(Electric)	\$ 6 00	442	Radioptican	(Acetylene)	\$17 50
412	Radioptican	(Acetylene)	6 00	451	Radioptican	(Electric)	27 50
413	Radioptican	(Gas)	6 00	452	Radioptican	(Acetylene)	25 00
421	Radioptican	(Electric)	9 00	453	Radioptican	Combination (Electric)	27 50
422	Radioptican	(Acetylene)	9 00	454	Radioptican	Combination (Acetylene)	25 50
423	Radioptican	(Gas)	9 00	455	Radioptican	Combination (Electric)	45 00
431	Radioptican	(Electric)	12 00	457	Radioptican	Combination (Acetylene)	42 50
432	Radioptican	(Acetylene)	12 00	471	Radioptican	(Arc Light) no rheostat	27 50
433	Radioptican	(Gas)	12 00	481	Radioptican	(Arc Light) no rheostat	35 00
441	Radioptican	(Electric)	17 50				

Fixed Form Rheostat—5 Amperes 110 Volts Direct Current	\$ 5 00
Fixed Form Rheostat—5 Amperes 110 Volts Alternating Current	8 00
Adjustable Form Rheostat—5 Amperes 110 Volts Direct Current	8 00
Adjustable Form Rheostat—5 Amperes 110 Volts Alternating Current	11 00

This model gives double the illumination of the \$12.00 Radioptican and yields sharper and brighter images on the screen. It is fitted with the new patent adjustable holders, mounted on metal plates which drop into a double sliding carrier, provide a picture changing system identical with the established standard of high grade Stereopticon. The adjustable holder receives pictures up to 6¼x5½ inches either vertical or horizontal. The use of this new picture holder, the change from one picture to another is instantaneous. It is automatically stopped when in proper position, and can not get out of order.

No.	Name	Illuminant	Price
441	Radioptican	(Electric)	\$17 50
442	Radioptican	(Acetylene)	17 50



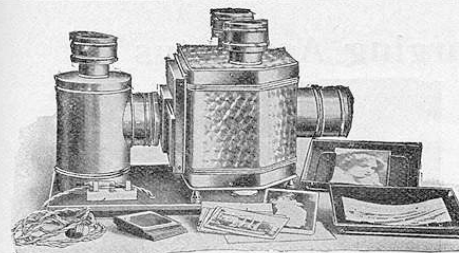
This model gives about three times the illumination of the \$27.50 Radioptican. It is fitted with 3 degree hand feed Arc lamp, and may be operated on any electric house lighting circuit either alternating or direct. It is fitted with the new patent adjustable holder, as described on No. 441 Radioptican, and will take a picture up to 8x5½ inches. This Radioptican is fitted with 4" diameter meniscus lens system which will cut sharply pictures up to 5x7 inches on, and will throw an 8 foot picture, at a distance of 18 feet from the screen.

NOTE—When ordering this Radioptican it is necessary to give line voltage and whether direct or alternating current is to be used.

Nos. 471 and 481 Radioptican fitted with Arc Light cannot be used without rheostat.

No.	Name	Illuminant	Price
471	Radioptican	(Without Rheostat)	\$27 50
481	Radioptican	(Without Rheostat)	35 00
	Rheostat extra.		

Combination Electric Radioptican



No. 446. This machine is an exact duplicate of No. 441, with a lantern slide attachment at the rear.

The lantern slide compartment is equipped with condensers which give an even illumination of standard 3¼ by 4-inch slides.

The instrument is equipped with a double lantern slide carrier, also two opaque carriers. Thus either slides or opaque pictures may be shown continuously or alternately.

No. 446 Combination Electric Radioptican, price, \$27 50

No. 447 This model is now furnished in an acetylene gas equipment. A special valve instantly turns the lights from one compartment to the other, always leaving a pilot light burning so that relighting is unnecessary during use. The price, complete with No. 442 generator or with Prest-O-Lite connection, is..... 27 50

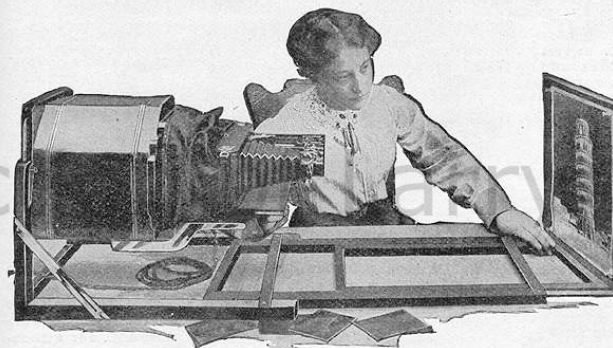
No. 451	In construction, size, operation and appearance it is the same as No. 441. Its points of difference and advantage are as follows: High grading Meniscus lens system yielding still sharper pictures, rack and pinion focusing device and greatly increased illumination. Special Electric Radioptican. Price.....	\$25 00
No. 452	Is exactly the same as No. 451 in construction. Price.....	22 00
No. 456	Is the same in construction, size, operation and appearance as No. 446. It is superior	

in the following particulars: The opaque compartment consists of No. 451 Projector, which gives the instrument a high grade Meniscus lens system and superior illumination, both of which are important advantages for the projection of transparent slides as well as opaque pictures—in Electric Radioptican. Price..... \$45 00

No. 457 Is exactly the same as No. 456 in construction—in Acetylene. Price..... 42 00

No. 471 Is a high grade Hand feed Arc Light Radioptican. Price (without Rheostat)..... 27 50

Radion Enlarging Printer



RADION ENLARGING-PRINTER NUMBER 1. PRICE \$13 50
(Patents Pending)

Varying sizes of prints are made by sliding camera and easel to and fro. This adjustment is instantaneous, as is also the lock for maintaining the adjustment. The alignment is perfect at all extensions.

SPECIFICATIONS

RADION Lighting System: As described on preceding page.

Illuminant: Electricity. You may connect it to any electric light socket. No special wiring, no resistance coil, No skilled operator. (Unless otherwise specified, all RADION Enlarging-Printers are equipped with lamps for 110 to 115 volt circuits, either alternating or direct current.)

Materials: Carefully selected kiln dried hardwood and cold rolled steel.

Finish: All wood parts beautifully finished in dark mahogany color. Metal parts are finished in oxidized copper, the same as that of the famous RADIOPTICANS.

Size of Negative Which Can Be Printed From: Any size up to 3¼x5½, 4x5, or by special manipulation, 5x7.

Size of Print Which Can Be Made: Anything up to 14 inches square can be made on the easel. Larger prints by special arrangement as directed in Instructions Sheet.

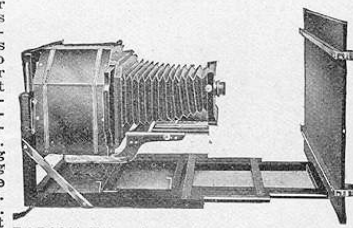
Size of RADION Enlarging-Printer Number 1: Fully extended, 44 inches long x 12½ inches wide x 13 inches high. Closed, 19¾ inches long x 12½ inches wide x 13 inches high.

Weight, 16 lbs. Shipping weight, each carton crated, 26 lbs. Shipping weight, (crated per dozen) 300 lbs.

The No. 2 RADION Enlarging-Printer has been designed primarily for the benefit of those who happen to have cameras without detachable backs and are unable to utilize them in connection with the No. 1 RADION Enlarging-Printer. On this model a bellows, adjustable front and special lens take the place of the user's camera and hood for connecting same to lamp house. Being complete in itself, it naturally offers certain advantages over No. 1. Since the lens is specially constructed for "enlarging-printing" it has greater speed than the average camera lens and thus the printing exposure is still shorter. It is entirely independent of the camera and printing may be done with it while the camera is in actual use making negatives. The adjustments of this model are still more quickly and easily made. It is equipped with rack and pinion devices both for focusing and operating the rising and falling front. The easel is larger and is fitted with clamping springs for holding the paper. Anything up to 17 inches square can be made on the easel and the draw of the instrument is proportionately longer. An independent electric light switch is conveniently mounted on lamp house. The lens is equipped with orange colored cap, thus providing a safe light which is an added convenience in handling the bromide paper.

Will accommodate any size negative up to and including 5x7.

The price of this model without lens is \$25. Unless otherwise specified, it is shipped complete with lens.



RADION Enlarging Printer Number 2

Complete with Rapid Rectilinear Lens, \$35 00

Printing and Enlarging Apparatus

THE F. & S. PRINTING AND ENLARGING CABINET

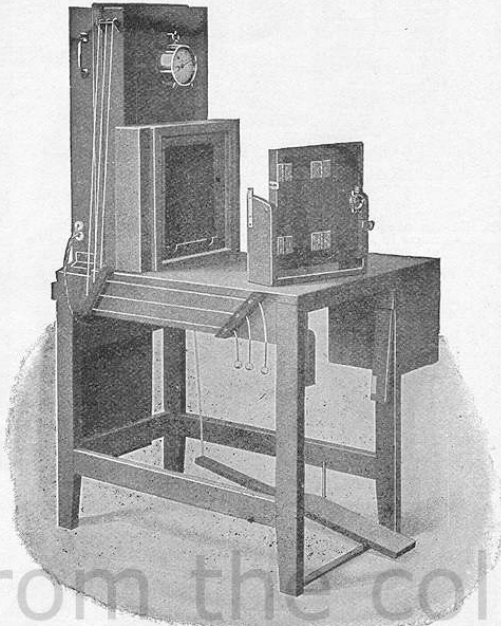
There is an increased demand for a rapid, effective and inexpensive means of making developing paper prints and bromide enlargements that will be absolutely uniform.

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



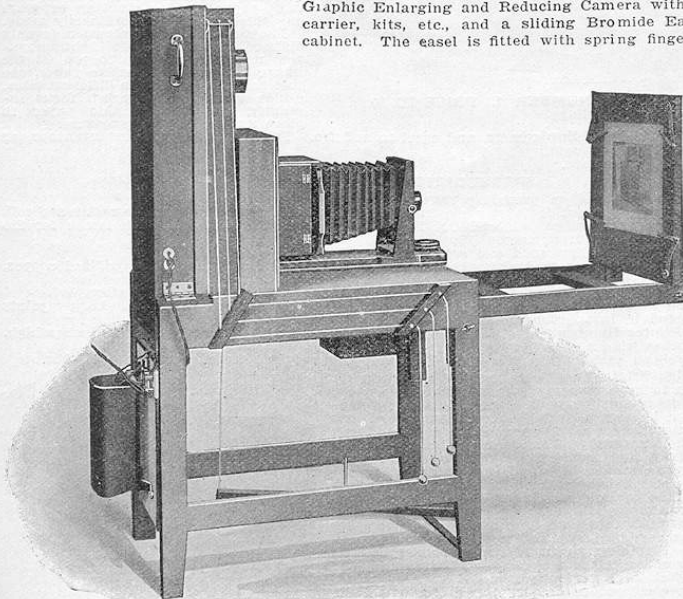
Showing Cabinet Ready for Printing.

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.

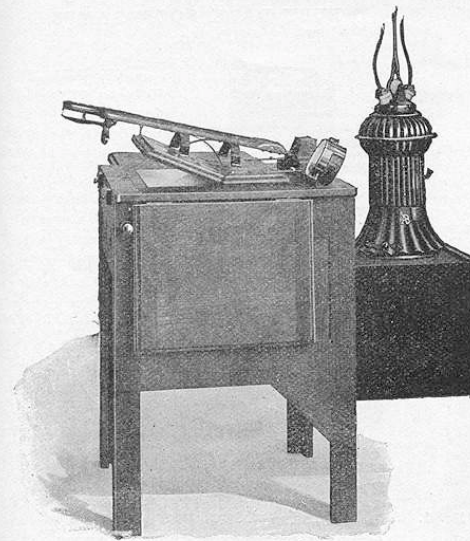
This outfit is intended for use with Cooper Hewitt Light only, which light can be secured from professional stock houses, or the Cooper Hewitt Electric Company direct. In ordering the light, it is necessary to give kind of current used; if direct, give voltage, and if alternating, voltage and frequency 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.

The Price

F. & S. Printing Cabinet, including automatic print and paper container, clock and swivel printing frame \$50 00
Enlarging attachment extra, including No. 1 Graphic Enlarging Camera with negative carrier and nested kits, reflecting cone and Bromide Easel 35 00



Artura Printing Machine



The New Artura Printer

The original model of the Artura Printer turned out excellent work, and afforded satisfaction generally, but "good enough" is not sufficient for us.

Whenever we can improve or perfect any of our products we do so, hence our introduction to you of the new Artura Printer.

The new Artura Printer has all the advantages

of previous models, with many added conveniences coupled with improved construction and appearance. The special pattern Copper Case Arc Lamp is wound to our specifications, and affords the finest quality printing light.

The new lamp uses small carbons affording a much steadier light than the ordinary arc, with a minimum consumption of current.

The top of the machine is fitted with a hinged frame containing a sheet of plate glass 12 3/4 x 14 3/4 inches, for supporting the negative during printing. This frame may be raised to adjust vignettes or tissues.

A ground glass, sliding in a groove directly underneath the hinged frame, acts as a light diffuser, and as a support for vignette or tissue. The hinged back is so arranged that the back half comes in contact with the negative first. This allows the printer to place the paper in position on the negative, and hold it with one hand until the back is in contact.

The back is padded with fine soft felt, is self-locking, and automatically adjusted for varying thicknesses of negatives or paper.

The exposing shutter is opened and closed by means of a small metal handle on the right side of the machine, the shutter is curtained with orange colored fabric and is placed directly in front of the light box.

The cabinet is fitted with drop leaves, 14x17 inches, on either side, and occupies a space of but 24x37 inches. The cabinet is of oak, flemish finish.

PRICE

Artura Printer, 11x14, complete with Special Arc Lamp	\$ 75 00
Ditto, without Lamp	55 00
Artura Printer, 20x24, complete with Special Arc Lamp	100 00
Ditto, without Lamp	80 00

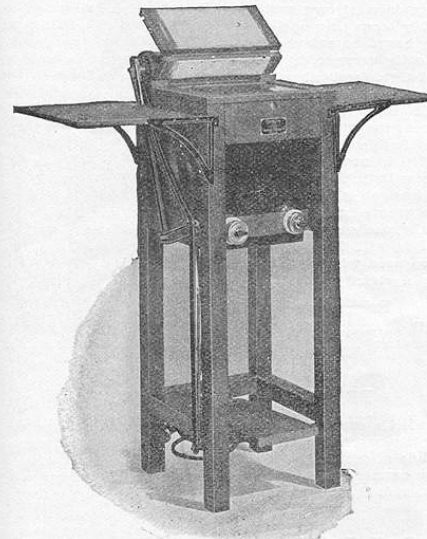
The Century Automatic Printing Machine

The Century Automatic Printing Machine is easily first in simplicity of operation, quality of work and economy.

The machine consists of an electric light box supported on a stand, with a simple and positive device for bringing the negative and paper into perfect contact during the exposure. The operation is very simple—place the paper on the negative, press the foot lever, release and remove exposed sheet. The box is fitted with sockets for six incandescent electric lamps, one for a ruby lamp when adjusting the paper, and the others to provide the exposing light. Any one of the five lights may be turned off at will, when exposing negatives of uneven density. Two grooves underneath the negative supporting glass are provided for inserting sheets of ground glass or vignettes. The contact pad is fitted with felt, and the contact roller automatically adjusts the pad to any thickness of negative or paper. Direct or alternating current of 110 or 220 volts may be used, but in ordering, it will be necessary to state voltage desired. The machine, as furnished, is equipped with two side tables, affording a top surface of 14x38 inches on the 8x10 and 18x46 on the 11x14 and 8-foot connecting cable.

Made in Two Sizes

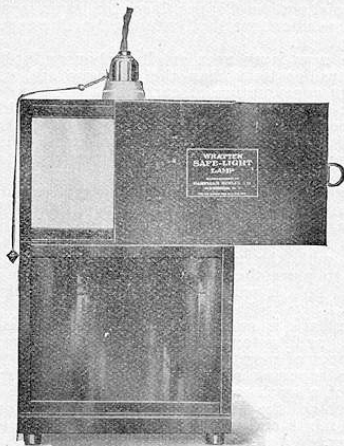
No. 1, for Negatives 8x10 and under	\$25 00
No. 2, for Negatives 11x14 and under	35 00



Front View

Dark Room Lamps

WRATTEN SAFE-LIGHT LAMP



The Wratten Safelights and the Wratten Safelight Lamp, which includes one of the Safelights, should become popular with photographers because of their safety and convenience.

The Wratten Safelight Lamp has the appearance of being in two sections, the upper one containing the electric lamp, in front of which is an opal glass and a light-tight slide to cover same when using the red light.

The lower section receives the light from above on a white reflector set at an angle to distribute the diffused light evenly over the glasses of the Safelight. These slide into grooves in the lower section, and after they are in place, there is a hinged cover to close the opening and make it light-tight.

The Safelight is 8x10 inches, giving a surface amply large for examining negatives, and best of all, the Safelights are safe.

The Wratten Safelight Lamp is constructed for use with electric light only and includes electric lamp attachment with six feet of cord and plug and one Wratten Safelight, Series 1, for use with medium and extra rapid plates which are not color-sensitive, being supplied unless otherwise specified.

Wratten Safelight Lamp\$0 00



INGENTO RUBY LAMP No. 3 (Electric)

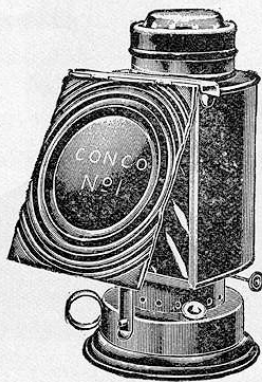
Consists of an inner orange bulb and an outer detachable flashed ruby globe. A threaded brass ring slips over the ridge on the socket, the support for the outer globe screws over this ring forming a perfectly light-tight connection and making this the most efficient electric dark-room lamp of its type that has ever been offered.

The inner bulb alone is a perfectly 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.

Prices

Ingento Ruby Lamp No. 3.....\$1 50
Extra Outer Globes 1 00

RUBY DARK ROOM LAMPS, No. 1 AND No. 2



These lamps are made especially for us and have no equal for the price. They are strongly made, well finished and give a powerful, yet perfectly safe, light. No smoke, no smell. Are fitted with both ruby and orange glass and adjustable shield, to protect the eyes from the light. The flame can be controlled from the outside.

Prices

No. 1. 8 in. high, 3 1/4 in. deep, ruby and orange glass\$0 40
No. 2. 9 in. high, 3 5/8 in. deep, ruby and orange glass 60
No. 3. 11 in. high, 4 in. deep, ruby and orange glass 1 00

THE EASTMAN STUDIO DARK ROOM LAMP

Here is a strong 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 fits into a groove in front of the ruby, and may be removed at will. The lamp may be used with either oil or electricity.



Prices

For oil\$3 00
For electric 3 50

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.

Prices

Premo Candle Lamp\$0 25
Candles, per dozen 30
Candles, per gross 3 00

WRATTEN AND WAINRIGHT SAFELIGHTS

These safelights consist of one or two sheets of glass coated with a gelatine film, which transmits a perfectly safe light for handling the plate for which they are recommended.

Series 0. A bright orange color suitable for use with Bromide papers and Lantern Slides.

Series 1. An orange safelight for use with ordinary, medium and extra rapid plates which are not color sensitive. Consists of yellow and orange coated glass, with red paper between.

Series 2. A safelight for extra rapid and Orthochromatic Plates which are sensitive to green but not red. This safelight consists of yellow and violet coated glass with deep red paper between.

Series 3. This is a green safelight for use with the red sensitive Panchromatic Plate. It gives a faint illumination, which grows quite strong as the eye becomes accustomed to it. This safelight consists of yellow and green coated glass with green paper between.

Series 4. Bright green safelight for ordinary plates, for those who are unable to use a red light. Not safe for Orthochromatic Plates.

Series 5. Blue-green safelight, which can be used with Orthochromatic Plates if care be taken. Not recommended except where the red Series 2 cannot be used with comfort.

Price (any Series)

5x7\$0 75 8x10\$1 00
12x15 2 00

Special sizes can be supplied at price of next larger size from which they can be cut.

RADION DARK ROOM LAMPS



For use with electric bulb.

The Radion Lamp is instantly adjustable to any desired position. It is fitted with parabolic reflector, which permits the use of a small lamp giving four times the light otherwise available, and putting the light in one spot when wanted. The ruby glass and cloth are instantly removable, thus giving any light desired.

Price

No. 25 Radion Dark Room Lamp with orange paper and ruby cloth\$1 00
No. 26 Radion Dark Room Lamp with orange paper and ruby glass 1 25
No. 27 Radion Dark Room Lamp with orange paper and ruby glass, cord and socket, adjustable hanger and bracket... 2 50

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.

It is necessary for us to know the voltage and base in order to fill your order correctly.

Price\$0 75



INGENTO ELECTRIC RUBY LAMP, No. 2

This convenient device is designed for use with any electric drop lamp. The bottom is ruby glass and the revolving sleeve can be turned at will to the orange, ruby or white light openings. It is easily detached when desired.

Price

Ingento Lamp No. 2.....\$1 00

D. O. P. DEVELOPING ROOM LAMP



A very convenient lamp for developing rooms. It can be attached to any drop cord electric fixture. It is designed so that a full and proper illumination is given for developing plates or papers. The lamp does not occupy valuable space in the dark room. The shade measures 10 1/2 inches in diameter.

Price

Developing Room Lamp.....\$2 00

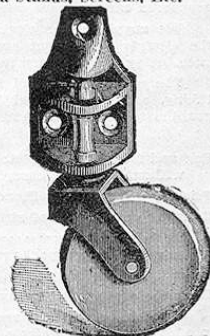
ROBECO CASTERS

For Backgrounds, Camera Stands, Screens, Etc.

The wheels are of hard wood, 2 3/4 inches in diameter. They are so arranged that they will not drop out when lifted from the floor. The No. 1 style have plain wood wheels, while the No. 2 are made of iron and have substantial tires of rubber, the outside diameter being also 2 3/4 in.

Price

No. 1, per set of 4.....\$1 00
No. 2, per set of 4..... 4 00



The Halldorson Home Portrait Flash Lamp

"WITH A PROOF LIGHT"

A handsome collapsible instrument that closes like a traveler's case and contains its working parts within itself for convenient transit.

Is Supplied With Electric Prooflights to facilitate scientific mastering of light and shade upon the sitter preparatory to flash and exposure.

Acts Like Daylight at Midday—Works as Well at Midnight. The operator may manipulate his particular style and points of light with screens and reflectors, by the aid of the prooflight. The subsequent flash produces identical gradations of light and shade effects upon the resulting negative, that were seen and pre-arranged under the proof light.

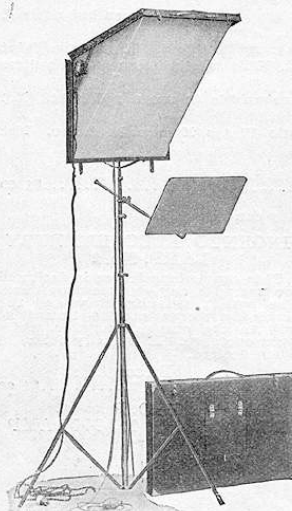
A Head Screen for Toning Down Light is a valuable feature of the lamp. It adds to the usefulness of the instrument. Three grains of flash powder will produce full-timed busts and three-quarter figures.

The Halldorson Home Portrait Flash Lamp is a practical, dependable instrument for the professional photographer. Artistic photography in the home, studio, office or street, may be executed at night or day as effectively as with a model skylight.

Retains Smoke and Gases Within Hood—Is Carried to Window to Expel Smoke. The tubular igniter is inserted through a small chamber in back of hood and contains flash powder and cap for explosion which takes place within the hood. The hood is carried out for expulsion of smoke.

The Flash Lamp is Finished in Imitation Morocco Leather; handsomely trimmed in lacquered brass. Outfit consists of lamphead, metal stand, tubular igniter with bulb and tubing. Electric wiring, lamp cord and connection, head screen, complete ready to attach to electric socket and camera shutter. Weight 13 pounds. Size closed, 2½x16½x24 inches. Height extended, 9 feet.

Price complete, without electric bulbs.....\$25 00



Patent applied for.

Victor Portable Flash Lamp

FOR MAKING HOME PORTRAITS, BANQUETS AND GROUPS BY
FLASHLIGHT WITHOUT SMOKE

With this device the flash is made inside the inverted bag, which serves the double purpose of diffusing the light, and confining the smoke. After the flash is made, the puckering string is drawn so as to close the bottom of the bag, which is then easily carried out of doors, and emptied of its smoke, or if left standing the smoke will, in about an hour, condense into dust, and fall to the bottom.

The bag is 6 feet high, 4 feet wide across the front, and 27 in. across back, and 28 in. deep.

The flash pan is attached to the back of the bag, and is shaped so as to throw the flame forward and upward, to produce the strongest, yet softest, possible effects. It can be charged and recharged with powder, repeatedly, from the outside, without opening the bag or reaching inside, and without permitting any smoke to escape.

For portraits and groups where 5 to 15 grains of powder are used, 6 or 8 exposures can be made without emptying the smoke.

We supply either electric, or a paper cap igniting device, as desired. With the electric attachment any number of lamps may be connected and fired all at once, using the ordinary incandescent lighting current.

The supporting stand is built of the highest grade of drawn seamless steel tubing, and folding steel legs, making the strongest, yet lightest device, it is possible to construct. And firmly supports the bag at a height of 15 feet or less.

Price

Bag and flash pan complete, (for hanging) with either cap or electric igniter, without stand or carrying case, weight, 8 lbs.....\$15 00

Telescopic Supporting Stand, complete, as described, weight 5¼ lbs..... 10 00

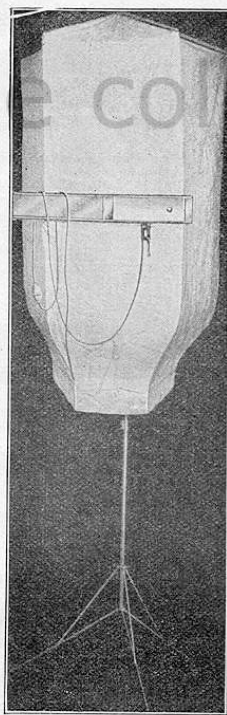
Carrying case, made of strong fibre board, which will last for years, weight 4½ lbs..... 3 50

Electric Fuses, per package of 50..... 50

Paper Caps, per box of 30..... 05

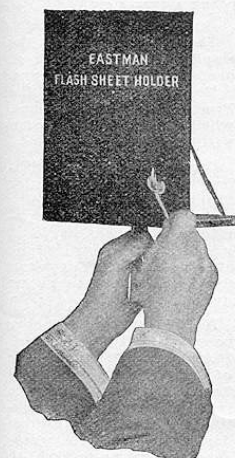
Complete outfit with package of electric fuses, or five boxes of paper caps..... 28 50

When bag and stand are ordered we will include carrying case unless requested to omit it, as it is really a necessity.



PATENTED
The above shows a rear view of the bag

Flash Lamps



Igniting Flash Sheet from the back.

EASTMAN FLASH SHEET HOLDER

Eastman Flash Sheets are unquestionably the safest self-burning flash medium on the market. The Eastman Flash Sheet Holder makes them still safer.

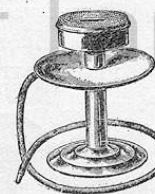
Price

Eastman Flash Sheet Holder ..\$1 00

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 the 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 magazine with magnesium powder. 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.

Price\$1 50



AUTOMATIC DEPENDABLE SPRED-LITE FLASH OUTFIT

This lamp is composed of a strong sheet steel trough or firing pan a foot long, by 1½ inches wide. It never "misses fire."

The No. 1 Outfit consists of the lamp with brush to keep it clean, and two boxes of paper caps. No. 2 Lamp is much larger and heavier, in fact is of sufficient size and strength to explode safely an ounce of powder. Does not include caps.

No.	Size	Price
1	Lamp 1½x12 inches.....	\$0 75
2	Lamp 2½x15¼ inches.....	1 25
	Paper Caps, per box of 30.....	05

THE DEPENDABLE FLASH LAMP AND BAG

For Use in Hand or Hanging

Smoke is confined. Light well diffused. Set up in a minute. Reflector on pan. Automatic expansion device.

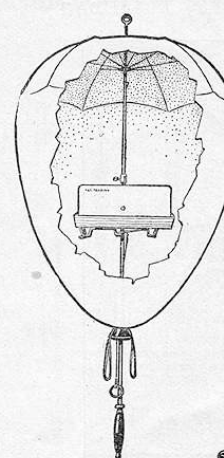
Igniter is set automatically.

Folded up it is only 21 inches long.

Weights only 40 ounces.

Price, complete ...\$6 00

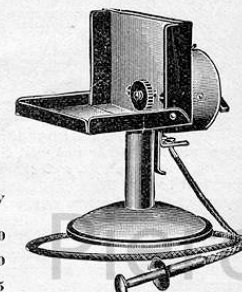
With Stand 9 50



"AGFA" FLASH LAMP

Improved Model

Powder is Lighter by Producing Metal. "Agfa" Improved Flashlamp\$2 40
Stand and Wire Release 1 10
Spark Producing Metal 25



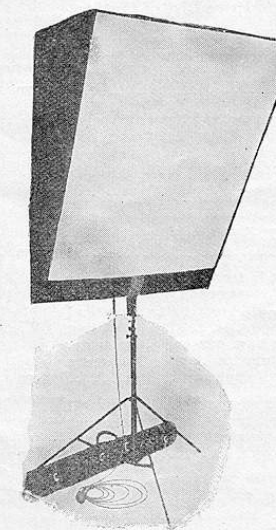
SCHOBERG PORTABLE SKYLIGHT

Home portraiture offers a field for the photographer that has been only touched on the edges so far. Lack of adequate lighting means has been the only hindrance to the full exploitation of this profitable branch of the portrait maker's business.

In the Schoberg Portable Skylight the photographer has at his command all the regular studio lighting effects, and the Rubberized Reflecting Cloth, of which the apparatus is made, not only minimizes the amount of flash powder required, but also does away with all the flash-light effect.

For Home Work the Portable Skylight is without an Equal.

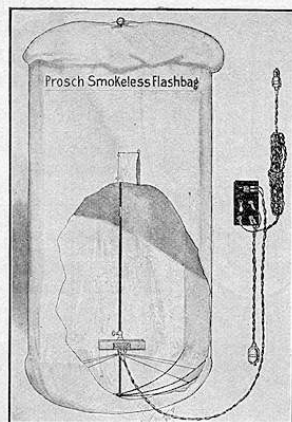
Folded it is 36 in. long, weighs 13½ pounds complete and the price is within the reach of everybody.



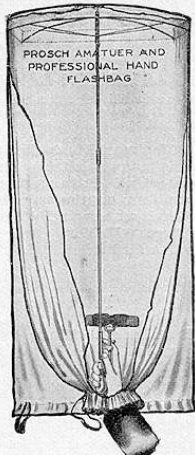
Price, complete\$27 00
With Improved Spark Igniter 35 00

Flash Lamps

PROSCH SMOKELESS FLASHBAG



PROSCH HAND FLASHBAGS



These are designed for the smaller flashlight work of professionals and amateurs. They are used with the Prosch Hand Flashlamps, which may be used also without the bag.

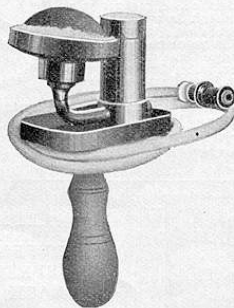
Capacity: The No. 1 Flashbag is one-half regular flashbag size; uses 20 grains and 40 gr. Prosch cartridges; also uses up to 40 grains of loose powder; and also uses small Eastman's flash sheets; covers rooms up to 15x20 feet.

No. 2 Flashbag is full size; uses up to size D 1 (1/2 oz.) Prosch cartridges; or 1/4 oz. of loose powder or large Eastman's flash sheets; also is fitted for use of Proschlite No. L pure magnesium flash lamp for time work; covers rooms up to 25x35 ft.

Price List of Hand Flashbags

No. 1 Flashbag, with No. 1 hand flash lamp complete	\$5 00
No. 1 Flashbag, only	3 50
No. 2 Flashbag, with No. 2 hand flash lamp complete	10 00
No. 2 Flashbag, only	7 00
No. 1 Hand Flash Lamp (without bag)	1 50
No. 2 Hand Flash Lamp (without bag)	3 00

PROSCHLITE PURE MAGNESIUM FLASH LAMPS



No 2 Amateur Proschlite.

The Proschlites represent a series of seven of the latest improved magnesium storage flash lamps, ranging in price, by easy steps, from \$1.50 to \$25.00, and in capacity from home requirements to the largest professional work. All are fitted with vertical storage chambers of varying capacity.

Price List of Proschlites

No. 1. Withdrawn until further notice.	
No. 2. Amateur size, twice the capacity of No. 1; for all ordinary work	\$ 2 50
No. 3. For general use; with 2 storage chambers; four times as powerful as No. 1	5 00
No. 4. A popular professional studio lamp	10 00
No. 5. The largest single lamp made	15 00
No. 6. Composed of two No. 4s joined together	20 00
No. 7. Composed of three No. 4 projectors and chambers joined together	25 00
No. 8. Composed of two size V joined	30 00

With its complete fittings the Electric Envelope Cartridge and Lamp has reduced the flash light problem to its simplest, cleanest, safest, surest, cheapest and most practical form. This outfit can be set up ready for use in five or ten minutes, and taken down and packed as quickly. By means of an ingenious device, the Current Tester, one can be sure before he attempts an exposure that all electrical connections are perfect and that every bag will work promptly and simultaneously with every other. Every cartridge and fuse is so tested and guaranteed perfect before being sent out.

Specification and Price List of Outfits

Portrait Outfit, for studio or home: One flashbag, one cartridge lamp, one switchboard, wires, rod, attachment ferrule, etc., complete, ready for use, net price.....\$17 50

Group Outfit, for studio, home, small groups, small dinners, small interiors: Two flashbags, two cartridge lamps, two 25-ft. line wires, one switchboard with its double-end bulb and tubing and its 15-ft. plug wire and attachment plug for incandescent current, two rods for stands and their attachment ferrules to set upon wood tripods, all complete ready for use, net price.....32 50

Large Outfits may be made from the above simply by adding more flashbags, each bag being a unit in a series and all bags being identical in size, shape, capacity, etc. The flashbag "unit" consists of one bag, one cartridge lamp, one 25-ft. line wire, one rod and attachment ferrule, the net price of each unit being.....15 00

Prosch Current Tester is a device for testing all electrical connections, including the powder cartridges, to insure success before the exposure is made. Net price.....2 50

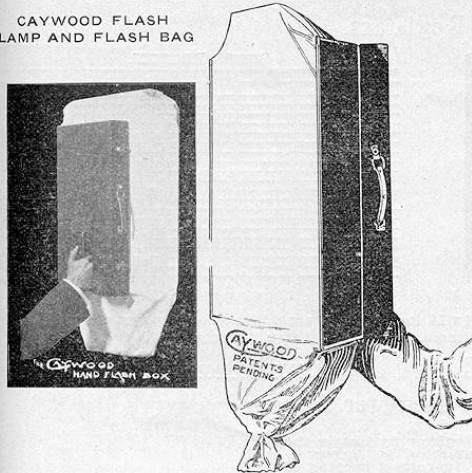
Extra Switchboard for making two separate outfits from one large one, net.....4 00

Special Switchboard for outfits using more than six flashbags.....6 00

Electric Fuses for flashbags loose powder, per 100 3 00

Flash Lamps

CAYWOOD FLASH LAMP AND FLASH BAG



CAYWOOD AUTOMATIC FLASH LAMPS

Regular Hand Lamp.....\$ 0 75
Will take all sized cartridges if leatherette hand shield is used.

Extension Folding Handle Lamp.....\$ 1 25

Caywood Hand Flash Boxes

Model A (Closed, 13x22 inches).....10 00

Model B (Closed, 18x24 inches).....12 00

The simplest and cheapest flash lamp ever placed on the market.

Caywood Cartridges

No. O Portrait Special, one empty shell and six packets of powder	\$ 0 20
No. I 2-inch Cartridges, per box of 6	30
No. II 3-inch Cartridges, per box of 6	50
No. III 4-inch Cartridges, per box of 6	70
No. IV 6-inch Cartridges, per box of 3	60
Sparkling Metal Cartridges, per box of 6	25

PROSCH ELECTRIC ENVELOPE CARTRIDGES AND FLASH BAG POWDER

These envelope cartridges contain the powder and the fuses for ignition, and are made in several convenient sizes to suit all the possible needs of professional or amateur.

Style A, 20 grains, per dozen	\$ 0 50
Style B, 40 grains, per dozen	1 00
Style C, 2 drams, per dozen	1 75
Style D, 4 drams, per dozen	2 50
Style E, 6 drams, per dozen	3 25
Style F, 1 ounce, per dozen	4 00

Styles E and F are intended for use on the cartridge lamps when they are used without the bags.

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.

Victor is made in three grades of speed, viz., Normal, Extra Fast and Slow. The Normal is fast enough for all ordinary work and is always supplied unless otherwise specified. Slow Powder; no smoke; little noise.

Prices of Victor Flash Powder

No. 1 Per box of 1/2-oz. full weight.....\$ 35

No. 2 Per box of 2-oz. full weight.....1 20



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 nor electricity for operation. Being instantaneous in action it is of the greatest value for groups, baby pictures, large and study negatives or portraits at home. Produces the greatest volume of light with the least amount of powder.

General Description

Showing Lamp, Screen and Standard ready to operate.

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

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 13 1/2 feet and folds up compactly, making a package but three feet long.

Cost of Operating: A Cabinet Negative can be made for less than 2 cents.

Prices

Nichols' "Portrait" Flash Lamp, complete	\$15 00
Lamp only	7 50
Folding Umbrella Screen	1 50
Folding Standard	6 00
Nichols' "Portrait" Flash Powder, per box	30
Two imitation Morocco Carrying Cases, full nickel plated trimmings, arranged to carry the complete outfit, together with extra Tubing Powder, etc., extra	6 00
Powder in 4-box lots or over, per box	25

The Alcohol Lamp Reservoir cannot be furnished separately.

Nichols' Junior Flash Lamp, similar to above, only smaller, each.....\$ 7 50

BEST MAKES OF COMPOUND FLASH POWDERS

Victor Flash Powder	
Per box, No. 1, 1/2 oz.	\$0 35
Per box, No. 2, 2 oz.	1 20
Ingis Flash Powder	
Per box 1/2 oz.	\$0 35
Per box 1 oz.	65
Nichols' Portrait Flash Powder	
Per box	\$0 30

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 startling effect to the eyes.

No. 1, per pkg. of half dozen sheets, 3x4	\$0 25
No. 2, per pkg. of half dozen sheets, 4x5	40
No. 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 1/2 dozen	40
Eastman's No. 2 Flash Cartridges	40
Eastman's No. 3 Flash Cartridges	25

Pure Magnesium Metal

For use in confined or magazine Flash Lamps.

Price, per oz.....\$0 25

Price, per lb.....2 50

Magnesium Ribbon

Per 1 oz. package.....\$0 65

PROSCH POWDER

Per 1/2-oz. package.....\$ 30

Per 2-oz. package.....1 10

Per pound, bulk.....7 00

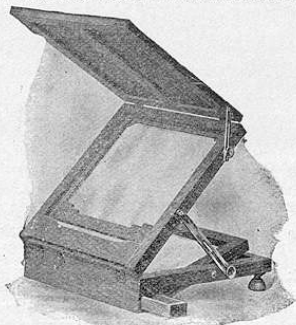
Retouching Frames

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.

The Price

R. O. C. Retouching Desk.....\$2 50



THE PROFESSIONAL RETOUCHING FRAME



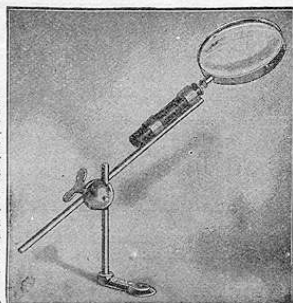
The cut illustrates perfectly its construction. It is substantially made; can be given any desired tilt, and will hold negatives of any size from C. D. V. to 14x17, and the negatives may be placed upright, horizontal or at any desired angle.

No retoucher can fail to be pleased with it.
Price, each\$3 00

JAMES' SUPPORT FOR READING AND RETOUCHING GLASSES

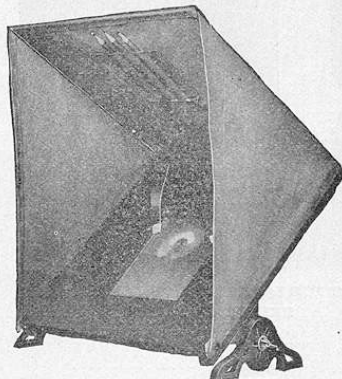
This is the most practical device ever invented for the purpose. Screw base to side of Retouching Frame. The lens can be adjusted to, and held firmly in any conceivable position by the Universal ball-clamp used. Made of brass, nickel-plate finish.

Price, each..\$1 50



PERFECTION RETOUCH-O "The Only Retouching Dope."

Is used by all Leading Retouchers. This solution is suitable for any lead or metallic point, dries quickly. Price, per bottle.....\$0 35



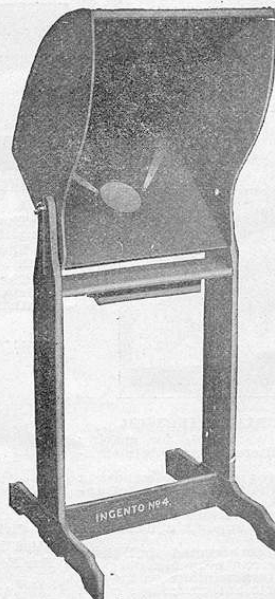
THE CENTURY FOLDING RETOUCHING FRAME

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.

The 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.

The entire outfit is shipped "knocked down" in compact form, and is easily and quickly set up.

Price, complete\$7 50

Price of Supporting Stand only, for those who already have the No. 3 Ingento Desk\$4 50

Scales and Weights



THE DEPOSE SCALE

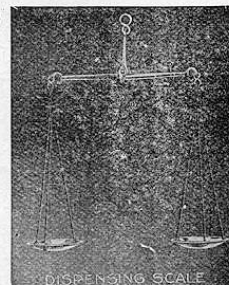
A marvel of neatness and compactness, consisting of a brass stand and frame with glass or aluminum chemical pan. The graduated scale is made of steel, and the capacity of the scale is from 1 to 12 drachms.

Price, No. 1.....\$0 40
Price, No. 2 weighs up to 18 ounces.....1 25

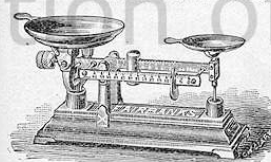
DISPENSING SCALES AND WEIGHTS

These weigh from ½ gr. to 1 ounce. Each set is packed in a box.

In boxes, 8-inch beam, with weights\$1 25
Extra set of dram and grain weights25
In boxes, 5-inch beam, with weights60
In boxes, 6-inch beam, with weights75



PHOTOGRAPHER'S SCALE

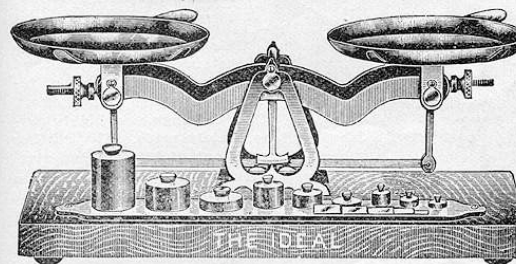


Movable pans 2½ and 4½ inches in diameter.

Price

Photographer's Scale\$10 00

IDEAL BALANCE SCALE



The price includes a full set of weights up to 2 ounces.

Price, complete.....\$3 00

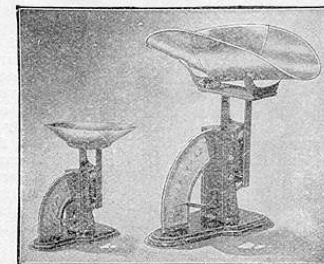
EXTRA WEIGHTS FOR BALANCE SCALES

Price per set, 6 grains to ½ ounce.....\$0 25
Price per set, grains, scruples and drachms.....50
Price per set, grains up to 2 ounces.....75

AUTOMATIC SCALE

A most useful scale for photographers, weighing chemicals as well as merchandise; has graduated scale giving postal rates on all classes of mail matter.

These automatic scales are constructed on perfect mechanical lines. They are always reliable and ready for use. They never get out of order, and can be readily regulated by a thumb screw when out of balance. No weights required.



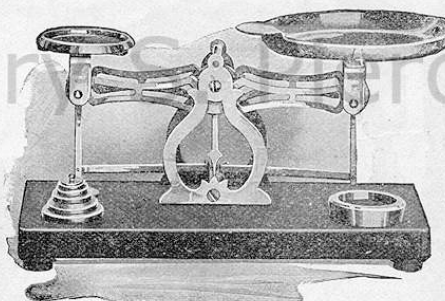
PRICE

Avoirdupois Weight

Acme, weighs 4 lbs. to ½ oz.....\$1 50
Midget, weighs 1 lb. to ½ oz.....1 10

Apothecaries Weight

Star Drachm No. 2, 2 oz. to scruples.....\$1 10



R. O. C. BALANCE SCALE

The R. O. C. Balance Scale, as shown in the above illustration, is exceedingly neat in design, and a thoroughly practical scale for photographic use. All metal parts nickel-plated. Black enameled base. The weighing pan is removable, with good size ear for lifting. A set of nested weights up to two ounces accompanies each scale. The price, R. O. C. Balance Scale.....\$2 75



EASTMAN SODA SCALE

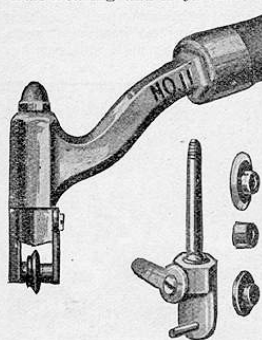
As shown in the above illustration, this is a well constructed and thoroughly reliable scale, weighing up to four pounds by the ½ ounce.

A scale of this sort is an absolute necessity in every studio, for the accurate weighing of hypo and the sodas. Eastman Soda Scale.....\$6 00

Print Trimmers

CHICAGO ADJUSTABLE

Ball Bearing and Adjustable for Four Widths of White Margins

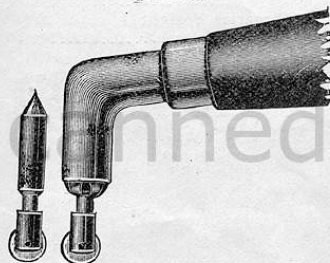


All the bearings, cutting wheel pin, and other wearing parts of this trimmer are made of tempered steel. The post revolves on a group of steel balls. The cutting wheel is turned out of tool steel with a bearing $\frac{1}{4}$ -inch thick. This prevents wobbling and binding on the pin.

By changing the position of the flange and cutting-wheel, it 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.

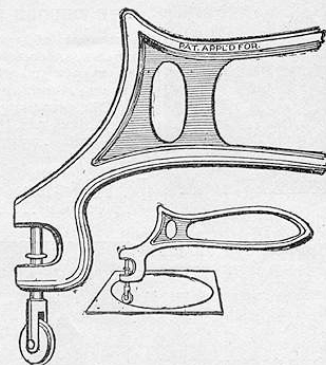
No. 11 Trimmer	Price
Extra Wheels for No. 11	\$1 00
	10

Cleveland Renewable Knife Revolving Trimmer



The cutting wheel post fits into a ball-bearing socket and can be instantly removed and a new knife put in place.

Price, each	\$0 25
Extra wheels and post	15



IRON HANDLE TRIMMER

Robinson's Straight Trimmer

Price, each	\$0 20
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Robinson's Revolving Trimmer

Price, each	25
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Nicholson's Marginal Trimmer

Price, each	50
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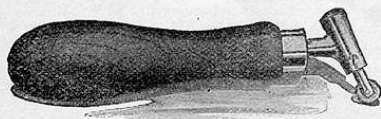
EASTMAN FORM HOLDERS

The simplest and most effective device on the market for holding cutting forms. Slip print and form under the catch, and press down on opposite end of form. Hardened, zinc cutting board.



The Price	
Eastman Form Holder	\$1 25

CHICAGO PIVOT BEARING TRIMMER NO. 2

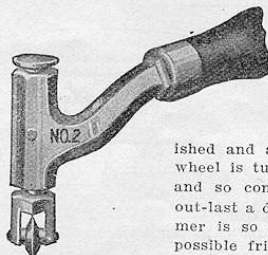


EASTMAN PRINT TRIMMER

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.

The Price

Eastman Revolving Print Trimmer	\$0 50
Extra Post and Wheel	15



This Trimmer is made to withstand continual use and still give the 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 out-last a dozen other wheels. The Trimmer is so perfectly constructed that all possible friction is eliminated. It is the most perfect high-grade professional trimmer ever made. Highly polished and nickel plated, with polished mahogany handle.

Price

No. 2 Trimmer	\$0 75
Extra Cutting Wheel, each	25

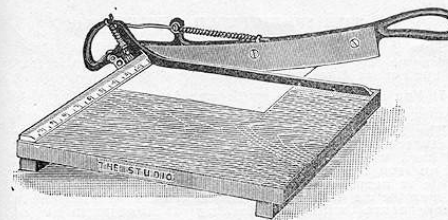
Card and Paper Cutters

DIAMOND DANDY STUDIO

The tables on these have a back gauge; the movable blade is curved, giving a drawing cut so essential to smooth work. The pivotal spring joint allows the blade a slight lateral motion and thus gives perfect contact of the two blades at every point. Made in three sizes.

Prices

No. 1, "Diamond," 6-inch blade	\$1 53
No. 2, "Dandy," 8-inch blade	2 06
No. 3, "Studio," 10-inch blade	3 06

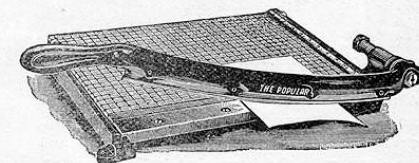


POPULAR CARD OR PAPER CUTTER

This cutter, also new, has a fifteen inch blade and a number of special features.

The table is divided into half-inch squares by lines cut into the wood and filled with enamel. The lower knife is secured to a strip of wood separated from the table by a space more than sufficient to allow for a possible swelling of the table, thus making the position of the knife permanent; 15-inch blade.

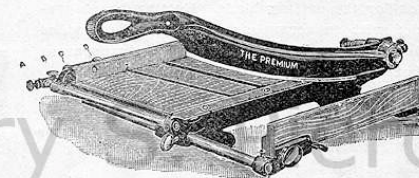
Price	\$7 25
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THE PREMIUM CARD OR PAPER CUTTER

This is the popular, general, all round machine, with a 12-inch blade, meeting the requirements of a minimum sized cutter. A distinctive advantage is secured by a peculiar arrangement of the joint, by means of which a sheet of any length may be cut. By the simple adoption of a spring overhead, connected by a cord attached to the handle, the cutter is adapted to rapid work where a great number of small pieces of uniform size are to be cut.

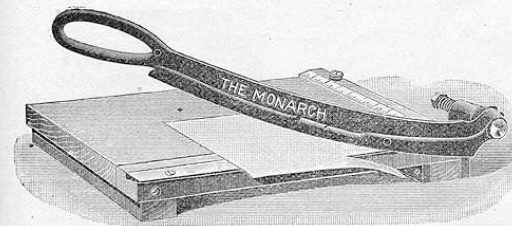
Price	\$10 00
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THE MONARCH

This is the latest addition to our line of photo trimmers and is built for real work. The knowledge we have gained by years of experience enables us to produce this excellent machine at a low price. It has the high point which gives the drawing cut, the blades are heavy and the curved blade has been designed with great care to prevent the paper from dragging. It has the sliding joint so that the blades will not cut each other and are in contact only at the cutting point, and it has an adjustable squaring gauge; 12-inch blade.

Price	\$4 00
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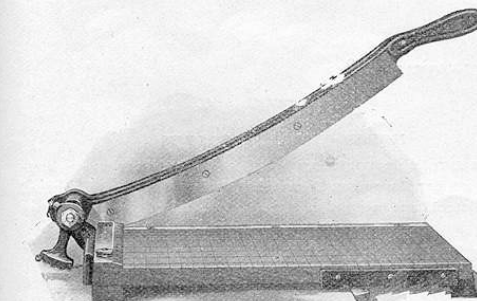


TWO NEW STUDIO TRIMMERS

The New Crown and Imperial Trimmers are similar in construction to the well known Popular Trimmer, except that the blades are self lifting by means of a simple spring attachment connected to the blade. This spring lifting device not only materially lessens the fatigue incident to trimming a large number of prints, but prevents accidents through slipping of the blade.

Prices

Crown Trimmer, 15 inch self lifting blade, ea.	\$10 50
Imperial Trimmer, 18 inch self lifting blade, each	15 00



Card and Paper Cutters

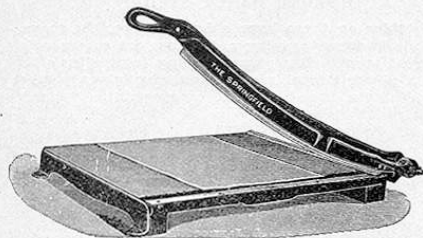
THE SPRINGFIELD CUTTER

This is one of the latest cutters in our line. It is the same size as the Manufacturer's 24-inch knife, but is built more like the Popular.

It has a plain table, with our improved adjustable squaring gauge.

The blades are precisely the same as on the Manufacturer's, but the straight blade is secured to a bar of hard wood, supported by an iron T cleat, instead of an iron bed as in the higher priced machine. The table is secured to the iron leg and T cleat in such a manner as to allow for the effects of change in temperature without affecting the adjustment of blades.

24-inch, each\$18 00

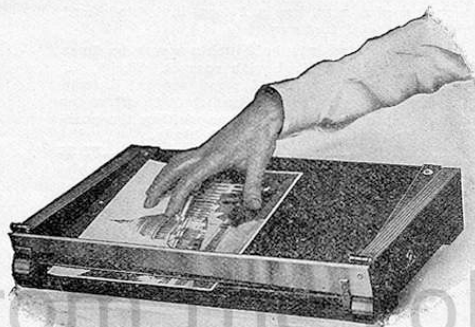


EASTMAN TRIMMING BOARD No. 2 and 3

A radical, yet thoroughly practical departure from the ordinary form of trimming board. Place the print in position on the board, and press down with the hand that holds the print. No lost time or motion, no reaching up and back for the cutting blade. Cutting board provided with an accurate rule, and is also divided into squares and equipped with transparent trimming gauge. 12½ inch blade.

The Price

Eastman Trimming Board No. 2, 12½ in.\$4 00
Eastman Trimming Board No. 3, 16 in. 6 00



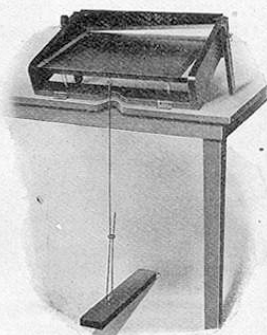
EASTMAN TRIMMING BOARD No. 4

As shown in the accompanying illustration, the No. 4 (twenty-inch blade) is designed for 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 the table 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. Twenty-inch blade.

The Price

Eastman Trimming Board No. 4\$8 00



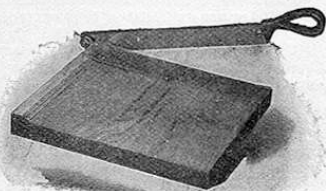
KODAK TRIMMING BOARDS

This is a reliable trimming board at a moderate price, constructed of hard wood with natural finish; the blades are of the best steel, and a rule is fitted to the board for measuring prints.

No. 1, 4x5 in.\$0 40 No. 2, 7x7 in.\$0 60

SHEARS FOR TRIMMING PRINTS

10-inch, steel blades, per pair\$1 25
Bankers, steel blades, per pair\$1 50 to \$3 00

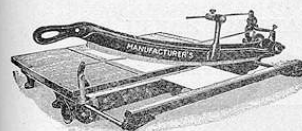


Card and Paper Cutters

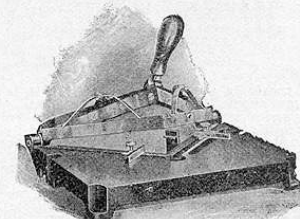
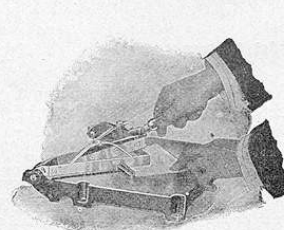
MANUFACTURER'S CARD OR PAPER CUTTER

This is a strong machine, having a 24-inch blade, adapted as a whole to any reasonable work for which such a cutter may be used. An essential feature for manufacturing purposes is the automatic grip or binder, which securely holds the work in position before the descending blade begins to cut and throughout its movement. This machine has been long and favorably known to the trade.

Price\$35 00



THE EASTMAN MASK CUTTER NO. 2



This device ends the trouble in mask cutting. It cuts true and clean, is quickly and easily adjusted, and will cut rectilinear openings up to 10/12 inches.

The cutter has two cutting edges at right angles, and each is marked in fractions from one to twelve and the size of the mask opening is regulated by sliding gauges which can be easily set at the desired size.

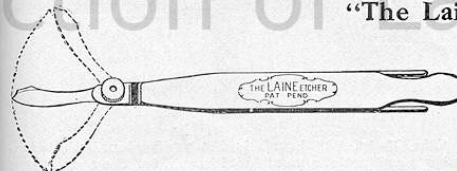
An automatic clamping device comes down in advance of the cutting die and holds the paper firmly in position.

With the Eastman Mask Cutter it is easy to cut an accurate mask for any negative or set of masks for double printing.

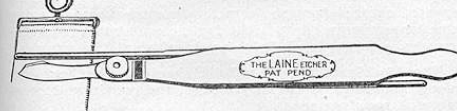
The cutter can be fastened to a table or bench, if desired, or may be used without fastening as the weight of the bed is sufficient to keep it in place during use. It is well made throughout and will last a lifetime. No delicate adjustments to regulate or to get out of order.

Price\$10 00

"The Laine" Etcher



Showing different angles blade can be used



Strop same as ordinary razor. Reverse arm for other side



Showing blade taken out

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.

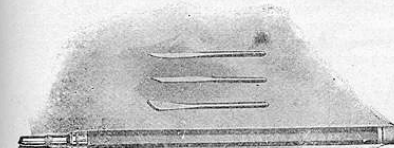
Price complete with one blade and strop\$2 00

EASTMAN ETCHING TOOL OUTFIT

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

The Price.

Etching Tool Outfit\$1 00
Extra Knives, each 25



Twentieth Century Etching Knife

A practical tool for etching negatives. Made of fine tool steel, tempered correctly. The tool is stiff enough for heavy work.

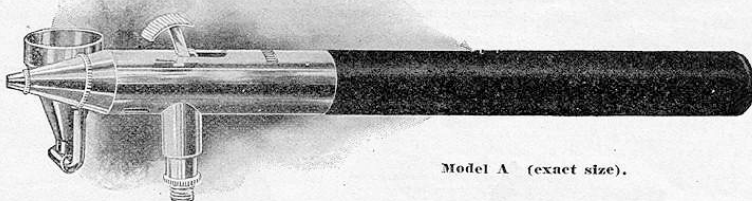
Price

Twentieth Century Etching Knife\$0 50



Air Brushes

FOUNTAIN AIR BRUSH



Model A (exact size).

Air brush work is so well known that it is unnecessary for us to make any comparison between it and crayon or stomp work. We will simply state that the Fountain Air Brush greatly excels the old form of air brush, both in speed and quality of work, the volume of our spray being three or four times greater than that made with the old style of air brush. In broad shadows and background the Fountain Air Brush is just that much faster. In detail work the pencil position permits so much more freedom that better execution is obtained.

Portrait artists can work on any surface that they work on in any other way—tapestry, plush, satin, china, paper and canvas—in fact any surface that figure or portrait work can be done on. Oil, mineral or water colors work equally well in the Fountain Air Brush. The new brush has a marvelous capacity for applying color; distributing large quantities in a very short time, and yet adjustable for the finest line. This size and pattern best adapted to the general use of portrait artists, halftone workers, designers, lithographers, monumental draughtsmen, photographers, mechanical draughtsmen, and for all air brush work, both colored and monochrome, that requires delicate handling.

Prices	Model A.	Model B.
Hand piece only, each.....	\$20 00	\$24 00
Hand piece, swing pump, air gauge, tank and tubing.....	30 00	34 00
Price, tank separately.....	10 00	

We earnestly advise the use of an air gauge. Price.....\$2 00. Full directions accompany brush.
*Model B will throw twice as much color and make nearly as fine a line.

THE WOLD AIR BRUSHES



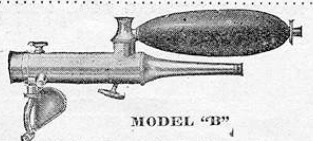
THE MODEL "A-1"

Fills the requirements for any class of Air Brush work, and is especially adapted for photographers' portrait work. It uses but little air, from five pounds up. The spray is vapor-like; the line unbreakable. It adapts itself to miniature work as well as large card work. The simplicity and durability of construction makes it easily understood, and it will last a life-time with proper care; in fact, it can not be compared with any other old or new Air Brush on the market today. Price.....\$22 00



MODEL "O"

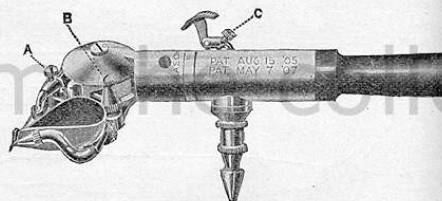
Is especially adapted for post cards and photographs. No matter how many colors the card is composed of, a jar can be had for each color, as it takes only a few seconds to rinse out the brush. The brush can be used in any position, with oil color, lacquer, varnish or fixatif. The needle and color tube are instantly removed for renewal, or cleaning. Price.....\$20 00



MODEL "B"

The Model "B" Air Brush is built on the oscillating needle principle with a thumb action lever. It is compact and extremely simple in construction, as it consists principally of four parts, and may be taken apart and put together again without the use of any tools whatever. It makes a continuous fine line and a clean broad spray. The color is distributed by the air blowing the colors off the needle which carries a quantity of color at each stroke from the color supply in the color pan. Price.....\$30 00

PAASCHE AIR BRUSHES



The Model "A" brush is the professional photographer's and artist's most ideal brush, for the reason that it will do finest work in colors of any description (light or heavy) without clogging and under perfect ease of control furnish from the finest hair line to any size spray wanted, which for retouching of photographs, coloring and finishing is of vital importance.

The Models "E" and "D" brushes are the best and most commonly used for background work and commercial requirements.

The "F" and "H" are the lowest priced brushes, and these are very popular. The "E" and "D" models have been further improved upon since being listed and with the underslung bottles and color cup adjustments and the three different size color adjusting parts make them the most modern and best obtainable.

Model "A" Air-brush.....	\$28 00
Model "B" Air-brush.....	28 00
Model "C" Air-brush.....	28 00
Model "F" Air-brush.....	12 00
Model "F"-2 Paasche Air-brush.....	14 00
Model "H" Air-brush.....	18 00
Model "H"-2 Air-brush.....	21 00
Model "E" Air-brush.....	24 00
Model "D" Air-brush.....	30 00

'With Brushes is furnished Leatherette Case with 1 doz. needles, tube of lubricant, screwdriver, tweezers, air-brush hanger, hose attachment nipple with strainer, and color cups with D, E, F, and H.

Retouching Pencils

A. W. FABER. For Glass, China, Metal. Germany.

Soft Blue

For working on back or glass side of negative, working in back grounds and shading. Each.....\$0 15

FABER LEAD HOLDER



Holders for leads, including one lead.....\$0 25

A. W. Faber's Castell and Siberian Pencils and Leads For Retouching, etc.

Or Koh-I-Noor Pencils and Leads



We give the following scale for convenience in ordering:

BBBBBB.....	Extra soft and extra black.	F.....	Middling, No. 3.
BBBB.....	Very soft and extra black.	H.....	Hard.
BBB.....	Very soft and very black.	HH.....	Harder, No. 4.
BB.....	Soft and very black, No. 1.	HHH.....	Very hard.
B.....	Soft and black.	HHHH.....	Very hard.
HB.....	Hard and black, No. 2.	HHHHHH.....	Extra hard.

The above scale applies to both the pencils in wood and leads only, so be sure to state which is wanted. The four degrees of pencils bearing the numbers 1, 2, 3 and 4 form a collection especially suited for ordinary user; those are the finest pencils made.

Pencils 3B to 6B.....	each, 13c; per dozen, \$1 25
Pencils 2B to 6H.....	each, 10c; per dozen, 1 00
Leads only, 2B to 6H.....	each, 10c; per dozen, 1 00
Leads only, 3B to 6B.....	each, 13c; per dozen, 1 25

SMITH METALLIC RETOUCHING POINTS

Smith leads, each.....\$0 25



THE CENTURY NEGATIVE PENCIL

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 Price

Century Negative Pencil, per box of 1 dozen.....\$1 10
Each.....10

THE CENTURY PHOTO SPOTTING PENCIL

For spotting photographs, far more satisfactory than the old method requiring India ink or moist color. Black and Sepia.

The Price

Century Photo Spotting Pencil, per box of 1 doz.....\$1 10
Each.....10



INGENTO RETOUCHING AND SPOTTING 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.

Price

Complete.....\$0 70

Brushes

HARD RUBBER SET AND BOUND PHOTOGRAPHERS' BRUSHES



The bristles of these brushes are secured by first immersing the butts (or stiff ends) of the bristles in soft rubber; they are then put upon the end of the handle (not around it, as in the old way); a belt of rubber, combined with metal, is wound around the whole, covering the butt of the bristles, and conforming to a groove running around the adjoining end of the handle. The portion of the brush covered with rubber and metal is then placed in a die and vulcanized (or hardened) under heat and pressure. The result is a solid vulcanized head, in which the bristles are so thoroughly imbedded that it is impossible for them to get loose. The handle, being dovetailed in the head is also firmly secured.

CAMEL'S HAIR DUSTERS

Tin-Bound			
Width.	Each.	Width.	Each.
1 inch	\$0 15	3 inch	\$0 55
1½ inch	20	3½ inch	65
2 inch	30	4 inch	75
2½ inch	40		

BRISTLE PASTE BRUSHES

Tin-Bound Flat

Width.	Each.
1 inch	\$0 15
1½ inch	20
2 inch	25
2½ inch	30
3 inch	40
3½ inch	45
4 inch	50

RED SABLE SPOTTING BRUSHES

No.	Each.
1	\$0 10
2	10
3	10
4	10
5	10
6	10
7	12
8	12
9	12
10	15
11	15
12	15



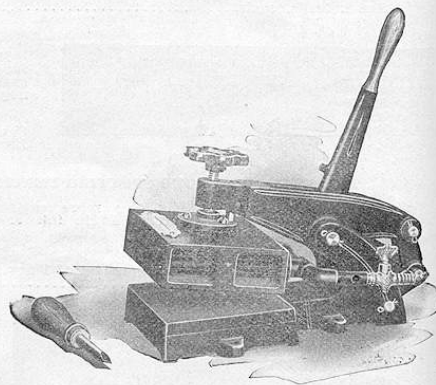
It is self-evident that this method of constructing brushes is far superior to the mold modes. These brushes are not affected in any manner by any solution in which they may be used, and they can be kept for any length of time in either damp or dry atmosphere without injury.

We also furnish these paste brushes with black bristles, and should any be broken off are easily detected on the pasted print.

Our Prices are as Follows:

Width.	Each.
1 inch Camel's Hair	\$0 45
1½ inch Camel's Hair	70
2 inch Camel's Hair	1 00
2½ inch Camel's Hair	1 30
3 inch Camel's Hair	1 60
3½ inch Camel's Hair	2 10
1 inch Bristle Paste	25
1½ inch Bristle Paste	30
2 inch Bristle Paste	40
2½ inch Bristle Paste	50
3 inch Bristle Paste	60
3½ inch Bristle Paste	80

PROFESSIONAL DRY MOUNTING PRESS

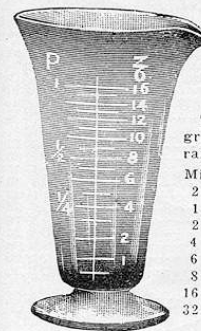


The Kodak Dry Mounting Press for professional use with Kodak Dry Mounting Tissue. Prints lie flat without curl, even on the thinnest mount. A few seconds' pressure and the print is ready for delivery. No waiting for prints to dry. Ideal for folders.

Price

5x7	\$15 00
11x14	50 00

Graduates and Funnels



ENGRAVED GLASS GRADUATES

These are the best engraved lines, and are warranted accurate.

Minim	\$0 20
2 drachms	20
1 ounce	20
2 ounce	20
4 ounce	25
6 ounce	35
8 ounce	40
16 ounce	60
32 ounce	1 00

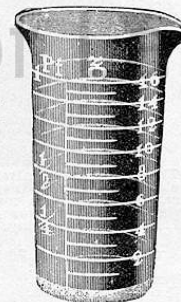
MOULDED GLASS GRADUATES With Pressed Lines and Figures.

Prices	
1 ounce	\$0 15
2 ounces	.18
4 ounces	.22
8 ounces	.35
16 ounces	.50

MEASURING GLASS (Graduated.)

These answer every purpose of a regular Graduate, being graduated to drachms and ounces.

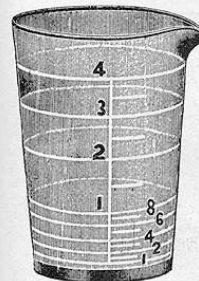
Each.	
2 ounces	\$0 05
4 ounces	10
8 ounces	15
16 ounces	25
32 ounces	30



BEAKER GRADUATES

This is a hand-engraved article, accurately tested one by one, so that we can recommend them ahead of all others.

2 ounces	\$0 25
4 ounces	40
8 ounces	50
16 ounces	75
32 ounces	1 25



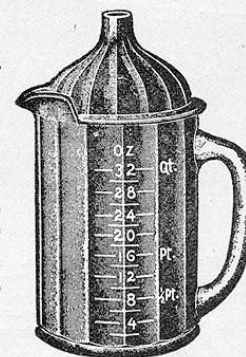
GRADUATE HANGER (Wire)

This should be used in every dark room. It keeps the graduate clean and always ready for use.

COMBINED PITCHER, GRADUATE AND FUNNEL

This illustration shows the principle of the construction of this new and handy combination. The funnel answers the double purpose of a lid.

Price, each.....\$0 50



THE PATENT RIBBED FUNNEL

They are very strong; have solid glass ribs on the inside.

¼ pint	\$0 10
½ pint	15
1 pint	20
1 quart	25
2 quarts	35



HARD RUBBER FUNNELS

¼ pint	\$0 40
½ pint	50
1 pint	55
1 quart	60

BULB FUNNEL AND FILTER

This funnel is made with a Bulb in Stem so that absorbent cotton can be used for filtering all liquids.

Size and Price

½ pint	\$0 30
1 pint	35
1 quart	40
½ gallon	85

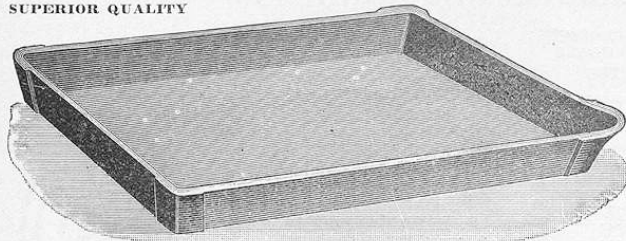


PLAIN PRESSED GLASS FUNNELS

¼ pint	\$0 10
½ pint	10
1 pint	15
1 quart	20
½ gallon	25
1 gallon	60

Trays

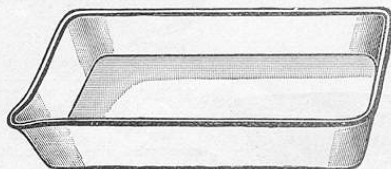
SUPERIOR QUALITY



PORCELAIN TRAYS

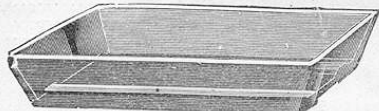
Made on Special Moulds. The Finest Goods Guaranteed Perfectly Flat

The dimensions given are for inside the bottom of the tray. We carry the deep trays only in stock.



Size	For Plate	Deep	Each
5 1/4 x 7 1/2	5 x 7	1 1/4	\$.60
5 1/2 x 8 1/2	5 x 8	1 1/4	.70
7 x 9	6 1/2 x 8 1/2	1 1/4	.80
8 1/2 x 10 1/2	8 x 10	1 3/4	1.00
10 1/2 x 12 1/2	10 x 12	2 1/4	1.65
12 1/2 x 16	11 x 14	2 3/4	3.00
15 x 18	14 x 17	3 1/4	5.00
17 1/2 x 21 1/2	16 x 20	4 1/4	7.00
21 x 25	20 x 24	5 1/4	10.00

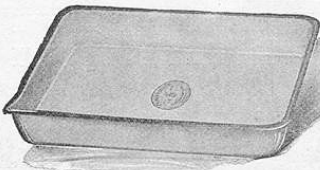
GLASS TRAYS



Made of moulded glass with ribbed bottom, and are supplied in white, amber, or green colors.

Size	Price
4 1/2 x 5 1/2	\$0.15
5 1/2 x 8 1/2	.20
7 x 9	.30
8 1/2 x 10 1/2	.45

EASTMAN'S STEEL ENAMEL TRAYS



They are pressed out of sheet steel—underglazed—then quadruple coated with porcelain outside and inside. The enamel is **very tough** and will not crack or decompose with acids or other solvents. The trays vary in depths from 1 inch for the smallest to 3 inches for the largest.

Stronger than Porcelain.

If you want an everlasting tray, buy the Eastman.

Size	Price	Size	Price
4x5	\$0.25	14x17	\$3.75
5x7	.50	16x20	4.50
5x8	.60	18x22	7.00
7x9	.75	20x24	8.00
8x10	1.10	22x27	10.50
10x12	1.70	12x15	2.25

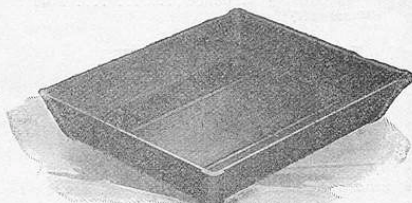
They are enough larger to take the plates they are listed for.

DEEP HARD RUBBER TRAYS

These goods, manufactured of original and genuine hard rubber, have been long and favorably known to the profession, and have always met with universal approval. They are the very best to be had.

4 1/4 x 5 1/4	each, \$	0.72
5 1/4 x 7 1/4	"	.90
5 1/2 x 8 1/2	"	1.05
7 x 9	"	1.30
8 1/2 x 10 1/2	"	1.65
10 1/2 x 12 1/2	"	2.25
12 1/2 x 16	"	3.75
15 x 19	"	6.25
18 x 22	"	8.00
19 x 24	"	9.00
21 x 26	"	11.50

R. O. C. HARD RUBBER TRAYS



Made of first quality hard rubber. A little lighter in weight than the Standard Trays, but equal in all other respects.

Size	Price	Size	Price
4 1/4 x 5 1/4	\$.55	8 1/2 x 10 1/2	1.35
5 1/4 x 7 1/4	.65	10 1/2 x 12 1/2	2.00
5 1/2 x 8 1/2	.80	12 x 16	3.50
7 x 9	1.00		

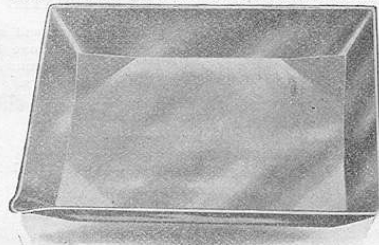
PAPIER MACHE TRAYS



These trays have always been popular on account of their lightness and rigidity and their comparatively low cost. They are made of the best jet black material, with hard glossy surface, easy to keep clean, suitable for developing, toning and washing.

Size	Price	Size	Price
4 x 5	\$0.18	11 x 14	1.25
5 x 7	.25	14 x 17	2.25
5 x 8	.28	16 x 20	3.00
6 1/2 x 8 1/2	.48	20 x 24	4.00
8 x 10	.68	26 x 30	8.00
10 x 12	.85		

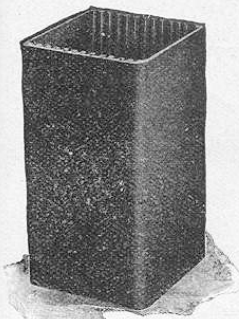
R. O. C. COMPOSITION DEVELOPING TRAYS



Note the raised corners. This raises the negative above any possible sediment and allows a rotary flow of the developer with economy of quantity. Strongest tray on the market and the most perfectly cleaned.

Size	Price	Size	Price
3 1/4 x 4 1/4	\$0.10	8x10	\$0.60
4 x 5	.12	10x12	1.50
4 x 7	.25	12x16	2.00
5 x 8	.30	15x18	3.60
7 x 9	.45	19x24	7.00

Fixing Boxes and Drying Racks

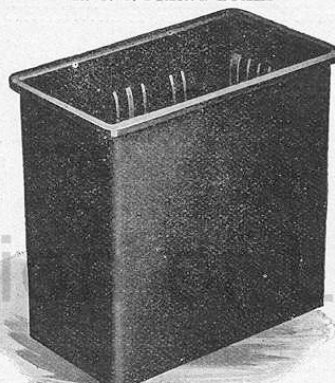


HARD RUBBER FIXING BOX

These boxes hold 12 plates at one time.

3 1/4 x 4 1/4 or 3 1/4 x 4 plates	\$2.50
4 x 5	2.75
4 1/4 x 6 1/2	2.90
5 x 7	3.35
5 x 8	3.65
6 1/2 x 8 1/2	4.50
8 x 10	5.00
11x14	
1 1/2 doz.	10.50
13x17	
1 1/2 doz.	14.50

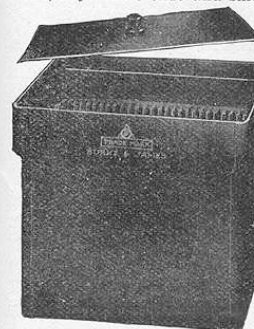
R. O. C. FIXING BOXES



No Partition Required

These boxes will take several sizes of plates without partitions. The No. 1 will take 4x5 or 3 1/4 x 4 1/4 plates, and the No. 2 will take 5x7 or 5x8 plates. They are the neatest and most practical boxes ever offered. New special 3 1/4 x 5 1/2 and 4x5.

No. 1, 3 1/4 x 4 1/4 or 4x5	\$1.25
No. 2, for 4x5 or 5x7	1.75
No. 3, for 8x10	2.50
No. 4, adjustable 8x10 and smaller	each 3.00



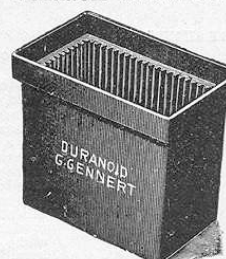
THE UNIVERSAL HARD RUBBER FIXING BOX, WITH COVER

Provided with grooves on four sides, thus holding any size of plate. The plate stands half an inch above the ridges, allowing the operator to remove it without touching the film. Made in two sizes.

No. 1 will fix 20 3 1/4 x 4 1/4, 4 1/4 x 5 1/2 or 4 1/4 x 6 1/2, or 11 6 1/2 x 8 1/2 plates at one time.

No. 2 will fix 22 4x5, 5x7 or 5x8, or 11 8x10 plates at one time.	
Price, No. 1	\$5.20
Price, No. 2	6.00

DURANOID FIXING BOX



A serviceable, neat and durable fixing box made of "Duranoid" fibrous material. It has a highly polished finish, is not affected by ordinary chemicals, and will take 20 4x5 or 12 5x7 plates.

Price Duranoid Fixing Box \$1.35

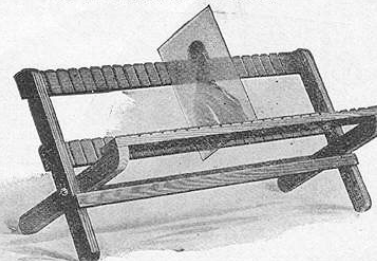
CENTURY NEGATIVE RACK



The important feature of this rack is its stability. The heavy iron ends are neatly lacquered, and the wood rack, 2 feet in length, will hold 50 plates, up to 14x17 size. The rack cannot be upset easily. The trough below catches the drippings. An ideal professional drying rack.

Price	
Century Negative Rack	\$1.25

R. O. C. NEGATIVE RACK

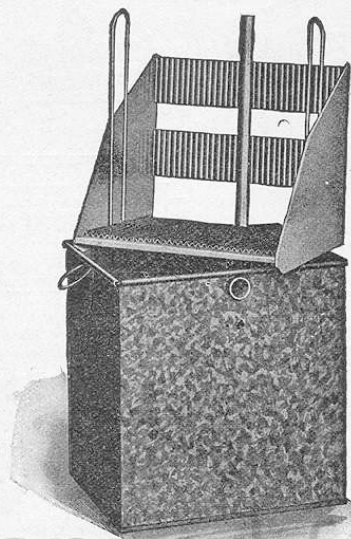


A good, substantial and roomy rack. It is made of extra heavy straight grain cherry. It is thoroughly seasoned and finished with oil finish. It has a one-piece drip rack, and folds flat when not in use. Excellent for all around studio work. Will take plates from 4x5 to 8x10.

Price	
R. O. C. Negative Rack No. 3, for 12 negatives	\$0.40
R. O. C. Negative Rack No. 4, for 24 negatives	.60

Washing Boxes

R. O. C. NEGATIVE WASHERS

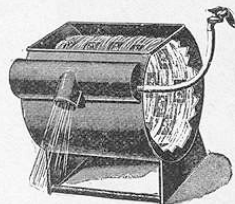


These washers are constructed of extra heavy zinc, and made in two parts, the tank and plate rack being entirely independent, so that if desired the plate need not be handled after washing, but allowed to dry in the rack after its removal from the tank. In washing, the water is forced to the bottom of 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
R. O. C. Negative Washer, 5x7, for 25 plates.....	3 75
R. O. C. Negative Washer, 6½x8½ and 8x10, for 30 plates	4 50

IDEAL PRINT WASHER

The prints revolve when water is running, and cannot rest a moment. The inlet pipe runs the whole length of box and is perforated by a series of holes. Prints are automatically repelled at outlet so they cannot foul. No. 1 will wash fifty 4x5 in 20 minutes. No. 1 and 2 models are zinc; No. 3 and 4 are galvanized iron. This is the quickest and most perfect method of washing prints.



Price

No. 1. Length, 9 in.; diameter, 9 in.....	\$2 00
No. 2. Length, 12 in.; diameter, 12 in.....	2 75
No. 3. Length, 18 in.; diameter, 15 in.....	6 00
No. 4. Length, 24 in.; diameter, 18 in.....	9 00

THE INGENTO PRINT WASHER

(Patented.)



Professional Ingento Print Washers will be made to order of any required size.

Size	Diameter, Inches	Price
4x5	9	\$1 25
5x7	12	1 50
Professional	16	3 00
Professional	20	4 25
Professional	24	6 00

THE 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 five by seven, or 150 four by five or smaller prints.

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.

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.

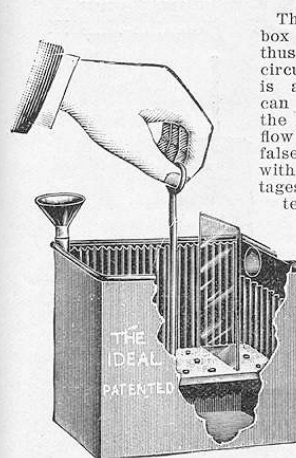
This washer is substantially constructed of the best grade of zinc, with brass and galvanized piping, and will not rust. Dimensions: Height, 9½ inches; width, 23 inches; length, 20½ inches. With ordinary care it will last for many years. Thorough washing is necessary to obtain absolute permanency in prints, and the Rounds Print Washer is a convenient and reliable means of accomplishing this end.

Price

Rounds Print Washer.....	\$10 00
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Washing Boxes and Bath Heater

LIFT RACK WASHING BOX

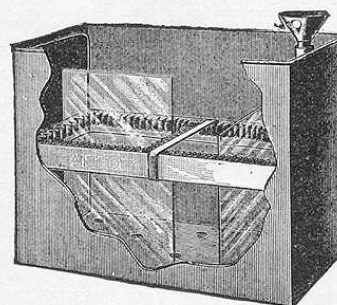


Price

No. 0. For Plates 3¼x4¼, 3¼x4, or 3¼x3¼.....	\$1 15
No. 1. For Plates 3½x3½, or 3½x3¼.....	1 15
No. 2. For Plates 4x5 and 5x7.....	1 25
No. 2½. For Plates 3¼x5½.....	1 25
No. 3. For Plates 3¼x4¼, 4¼x4¼, or 4¼x6½.....	1 25
No. 4. For Plates 5x7 and 6½x8½.....	1 75
No. 5. For Plates 6½x8½ and 8x10.....	2 00

Rubber hose suitable for these boxes, 10c per foot.

ADJUSTABLE WASHING BOX



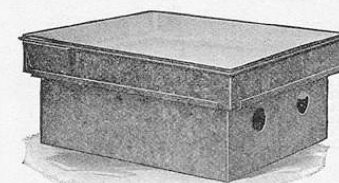
This box is zinc, with perforated false bottom which allows perfect circulation. A handle is attached to false bottom so that all the plates may be raised at once from water. The rack then serves for drying.

The box is adjustable, and will also take smaller sizes. It is adjusted by means of a transverse grooved sliding piece. Water is delivered at bottom, thus ensuring good circulation and perfect washing.

Price

No. 1, for 5x7 or smaller.....	\$1 00
No. 2, for 6½x8½ or smaller.....	1 60
No. 3, for 8x10 or smaller.....	2 15

EASTMAN TONING BATH HEATER

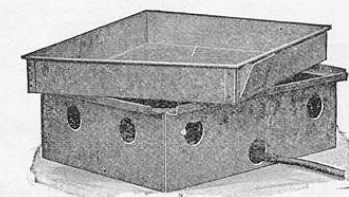


The increasing demand for Sepia toned prints by the Artura-Method Sepia and by the Hypo-Alum process, has necessitated the providing of a simple and convenient means for heating the solutions and maintaining an even temperature.

The Eastman Toning Bath Heater has been designed by practical men and meets perfectly every requirement. As shown in the illustrations it is constructed in the form of a double boiler.

The lower compartment is a shell of galvanized iron which may be placed on any work table. It is so arranged that a gas plate may be placed in the center, the connecting tube extending through an opening in the back. The ventilators are placed at the ends and back so that no heat is thrown out directly against the operator.

The water compartment is also of galvanized iron and fits snugly into the lower compartment, resting on its upper edge. The water compartment is made to hold the regular stock size 16x20 steel enameled



Heater With Water Compartment Removed.

tray, the rim resting on the edges of the water compartment. When the enameled toning tray is in position, water is poured into the compartment through the lip on the side. The lip shows the amount of water in the compartment, and more can be added when necessary, without disturbing the toning tray.

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.

Price

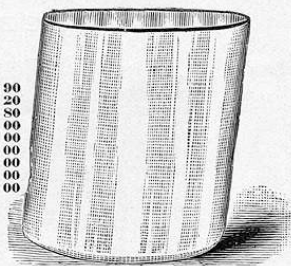
Eastman Toning Bath Heater (not including enameled toning tray, gas plate or thermometer)	\$5 00
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Sundries

GERMAN GLASS

BATH ONLY

Plate.	
5x 7, for 4 1/4 x 5 1/2	\$0 90
7x10, for 6 1/2 x 8 1/2	1 20
9x11, for 8 x 10	1 50
11x14, for 10 x 12	3 00
12x16, for 11 x 14	6 00
15x20, for 14 x 17	15 00
18x20, for 14 x 17	18 00
18x22, for 17 x 20	27 00
21x26, for 20 x 24	50 00



HOLLOW GLASS TUBES

For silvering paper. One end flattened to prevent turning.
Every printer should have one. No waste from dripping of silver solution.

15 inches long, 1/4-inch diameter, each.....	\$0 25
19 inches long, 3/4-inch diameter, each.....	40
23 inches long, 5/8-inch diameter, each.....	50

GLASS STIRRING RODS

Price		Price	
8-inch	\$0 05	15-inch	\$0 20
12-inch	15	18-inch	25

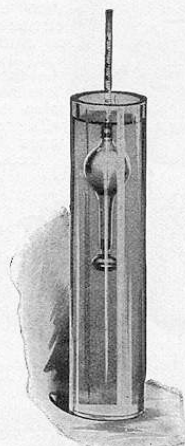
Both ends are glaze finished.

HARD RUBBER DIPPERS

No.	Size	Price	No.	Size	Price
3	4x5	\$0 45	6 1/2	10x12	\$0 70
4	5x7	50	7	12x16	90
5	7x10	55	8	14x18	1 10
6	9x11	65	9	17x20	1 45
No. 10, size 19x24 \$2 00					
Extra Buttons, small.....\$0 15					
Extra Buttons, large.....30					

GLASS MORTARS AND PESTLES

Glass, 1-ounce.....	\$0 15	Glass, 8-ounce.....	\$0 35
Glass, 2-ounce.....	20	Glass, 16-ounce....	55
Glass, 4-ounce.....	25	Glass, 32-ounce....	75



Hydrometer.

HYDROMETERS

For testing strength of silver baths and for measuring the specific gravity or relative density of liquids. Single degree scale, packed in wooden cases.

Each.....	\$0 40
Hydrometer, without jar, each.....	25
Eastman Tested Hydrometer, in jar, each.....	75

Thermometers

For Testing Temperature of Solutions

No. 1 Tray Thermometer is made especially for use on a tray. It is mounted on a metal plate which has two springs for holding it to the side of tray.
Price, each\$0 25

No. 2 Pocket Thermometer is the highest grade; equal in sensitiveness to a clinic thermometer; supplied in nickel plated pocket case.
Price, each\$0 50

No. 3 Eastman's Tested Thermometer is indispensable for tank development, and other photographic solutions.
Price, each\$0 50

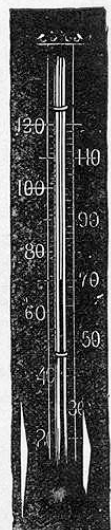
Thermometer Glass Stirring Rod. A combination of two workroom necessities; made of solid glass, 1/4 in. thick, 9 1/4 in. long; one end of rod flattened for crushing chemicals. It is specially tested for accuracy.
Price, each\$0 60

EASTMAN'S HARD RUBBER STIRRING ROD

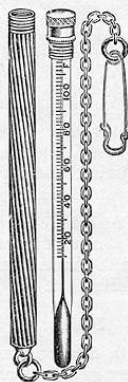
Made of pure, hard rubber, 1/4 in. round around an aluminum wire center; unbreakable, acid and chemical proof; ten inches long.
Price, each\$0 20

EASTMAN'S PRINT PADDLE

Made of pure, hard rubber, 1/4 in. round, smooth surface. It is exactly the right shape for handling prints in the fixing bath.
Price, each\$0 25



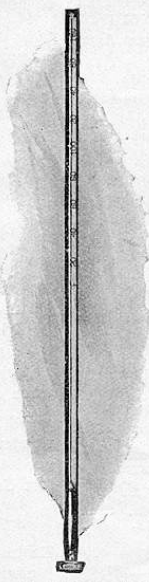
No. 1 Tray



No. 2 Pocket



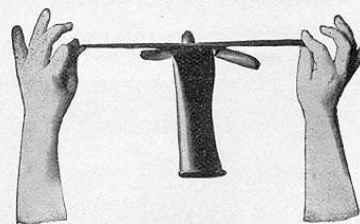
No. 3 E. K.



No. 4 Stirring Rod

Sundries

SEAMLESS RUBBER GLOVES



These are made of pure seamless rubber, so thin as not to impair the sense of touch, yet protect the hands fully from stains and poisonous chemicals.

Gloves, any sizePer pair, \$1 00

APRONS AND SLEEVE

PROTECTORS

Every photographer should use these articles, as they will save their cost many times over each year by protecting his clothing from water, from stains and dirt. They are well made, of very heavy water-proof materials, and are therefore very durable.

Rubber Aprons, No. 1, 40-inch	\$0 75
Rubber Aprons, No. 2, 46-inch	85
Rubber Aprons, No. 3, 52-inch	1 00



Sleeve Protectors, 14 inches long, pair.....\$0 50

RUBBER FINGER COTS

Extra Long

Rubber Finger Cots, with reinforced tips, per set of 3...\$0 15
Specially made for photo use. A perfect protection and relief for the fingers.



RUBBER FOCUSING CLOTH

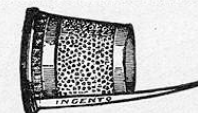
Made of fine quality of serge, coated on one side with rubber. Extra quality.

1 yard wide, per yard.....\$0 35

EASTMAN'S FOCUSING CLOTH

1 1/4 yard square, bound edges.....\$0 75

THIMBLE PLATE LIFTER



Worn on the finger like a thimble to keep the hands clean and free from stains.

This lifter is an ordinary thimble to which is attached a pointed piece of metal, making altogether a most efficient lifter.

Price\$0 15

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.

Price, each\$0 05

METAL PLATE LIFTER

This lifter is made of brass and heavily nickel plated. It can be used with any plate up to and including 5x7. It is attached by simply springing it over the plate.

Price, each\$0 05

SPONGE RUBBER

For Cleaning Cards



This is the best quality, solid black, and will save its cost every day in the year.

Size, 5/8 x 1 1/4 x 2 1/2 inches.....each, \$0 25

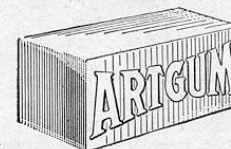
ARTGUM

A soft eraser that will not mar the surface of card mounts or photos.

Will clean soil spots from your work without leaving an unsightly abrasion.

Artgum, unlike kneaded rubber, will not become dirty and unsanitary.

Send for sample block. By mail.....\$0 10



Pyro-Klenza

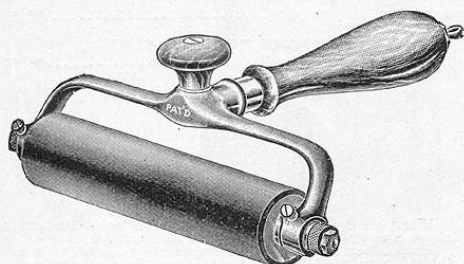
This unique preparation is of great value in removing chemical stains like pyro discolorations. It is a boon to the photographer, particularly if he does any reception-room work. Three cakes in a box.

Price

Per cake	\$0 10
Box of 3	25

Print Rollers and Squeegees

THE BALL BEARING PRINT ROLLER



This roller is an instrument which fits the hand perfectly, permitting the pressure to be applied directly above the rolls.

Price

5 in.....	\$0 60
6 in.....	75
8 in.....	85

No sticking or tearing of prints when mounting; the roller runs smoothly and freely as a cycle wheel, making mounting a pleasure. Heavily nickel plated, best rubber roller, practically indestructible.

Price, 6-inch	\$2 50
Price, 10-inch	4 00

EASTMAN'S SPECIAL SQUEEGEE

Its special feature is the double handle, giving the desirable strong grip. Superior quality velvet rubber.

The Price

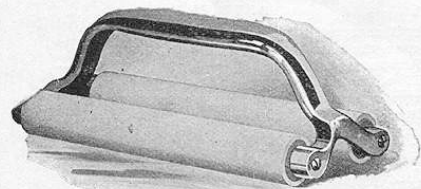
Eastman's Special Squeegee, 6-inch.....	\$0 30
Eastman's Special Squeegee, 8-inch.....	35

SQUEEGE FLAT VELVET RUBBER

Price Each

6-inch, \$2.25; 8-inch, \$3.35; 10-inch, \$4.45; 12-inch, \$5.50
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EASTMAN DOUBLE PRINT ROLLER, NO. 1

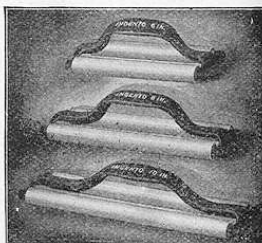


A strictly first-class roller for professional use. Eight-inch rolls covered with first quality heavy white rubber; both rolls hung exactly true, insuring perfect contact with the print. The solid, heavily nickel-plated handle affords a strong, firm grip, and the weight, a full five pounds, is ample for large size prints.

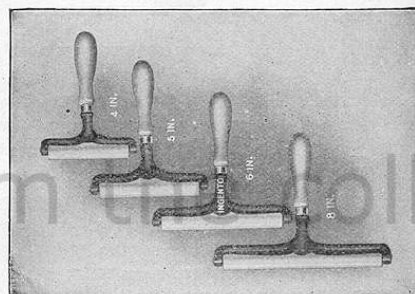
The Price

Eastman Double Print Roller No. 1.....	\$2 50
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DOUBLE PRINT ROLLER Lightweight Amateur



IDEAL PRINT ROLLER

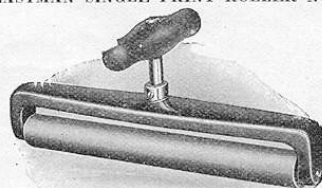


Ideal Rollers are made of the best material and the rolls are covered with pure rubber on hard wood centers, carefully adjusted to turn easily.

Price

4-inch	\$0 25
5-inch	35
6-inch	45
8-inch	55

EASTMAN SINGLE PRINT ROLLER NO. 2



As shown by the illustration, the Eastman Single Print Roller is a standard type that has found much favor with the profession.

The handle set at right angles to the roller affords a strong grip, and makes this type especially effective for heavy work on large prints; an especial favorite with the commercial photographer.

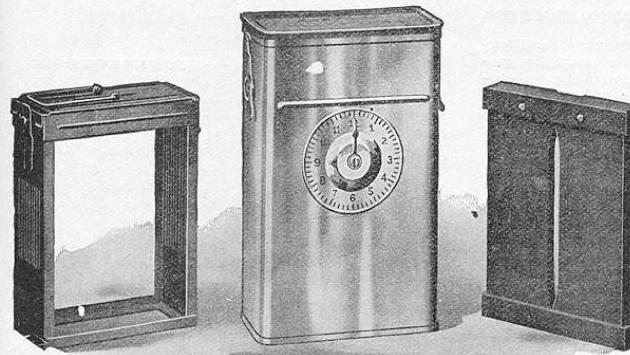
Ten-inch roller, covered with heavy first quality white rubber. Extra strong, nickel-plated frame. Weight, five pounds.

Price

Eastman Single Print Roller	\$2 00
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Developing Tanks

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 developer, 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.

THE PRICE

Eastman Plate Tank, 4x5 (will also take 3 1/4 x 5 1/2 and smaller plates) includes Solution Cup Plate Cage, Loading Block and Adjustable Kit.....	\$ 3 50
Do., 5x7, without Kit.....	4 50
Do., 8x10, includes Solution Cup, Plate Cage, Loading Block and Adjustable Kit and Septum.....	10 00
6 1/2 x 8 1/2, 5x7, 4 1/4 x 6 1/2 and 4 1/4 x 6 1/2 plates.....	50
Adjustable Kit for 4x5 or 3 1/4 x 5 1/2 Tank, to take 3 1/4 x 4 1/4 plates.....	75
Kits for 5x7 Tank, to take 3 1/4 x 5 1/2, 4 1/4 x 6 1/2 and 4 1/4 x 6 1/2 plates, each.....	1 00
Adjustable Kit for 8x10 Tank.....	20
Eastman Plate Tank Developer Powders, for 4x5 Tank, per pkge. 1/2 dozen.....	35
Do., for 5x7 Plate Tank.....	35
Do., for 8x10 Plate Tank.....	50

The Premo Film Pack Tank

The Premo Film Pack Tank is designed for developing Premo Film Pack films, and the ordinary cut film.

THE PRICE

Premo Film Pack Tank, No. 1, for 12 1 1/4 x 2 1/4, or 2 1/4 x 3 1/4 Films.....	\$1 25
Do., No. 2, for 12 2 1/4 x 4 1/4, 3 1/4 x 4 1/4, 3x5 1/4, 3 1/4 x 5 1/2 or 4x5 Films.....	3 50
Do., No. 3, for 6x7 Films.....	4 00
Premo Developing Tank Powders, for No. 1 Tank, per pkge. of 1/2 dozen.....	20
Do., for No. 2 Tank, per pkge. of 1/2 dozen.....	25
Do., for No. 3 Tank, per pkge. of 1/2 dozen.....	35

The Kodak Film Tank

Kodak Film Tanks are made in five sizes: The "7 inch," the "5 inch," the "3 1/2 inch," the "Vest Pocket Kodak," and the "Brownie," the latter taking only 2 1/4 inch Brownie film and having no cover for Solution Cup.

Two or three Kodak Film Tanks of different sizes should be a part of the equipment of every photographer who makes a practice of developing films for his customers. It will help him to furnish them with negatives of the best quality free from finger marks and scratches, and with the minimum amount of trouble.

Vest Pocket Kodak Film Tank. For use with Vest Pocket Kodak Cartridge, complete.....	\$2 50
Brownie Kodak Film Tank. For use with No. 1, No. 2, and No. 2 Folding Pocket Brownie Cartridge, complete.....	2 50
3 1/2-inch Kodak Film Tank. For use with all Kodak or Brownie Cartridges having a film width of 3 1/2 inches or less, complete.....	5 00
5-inch Kodak Film Tank. For use with all Kodak and Brownie Cartridges having a film width of 5 inches or less, complete.....	6 00
7-inch Kodak Film Tank. For use with No. 5 Cartridge Kodak or shorter film Cartridge, complete.....	7 50

3 DUPLICATING OUTFITS

Consisting of one Solution Cup, one Transferring Reel, and one Apron.....	\$1 25
Duplicating Outfit for V. P. Kodak Film Tank.....	1 25
Duplicating Outfit for Brownie Kodak Film Tank.....	2 50
Duplicating Outfit for 3 1/2-inch Kodak Film Tank.....	3 00
Duplicating Outfit for 5-inch Kodak Film Tank.....	3 75

Photo Mounters



HIGGINS' PHOTO MOUNTER

An entirely novel and superior adhesive, specially prepared for mounting photographs, aristotypes, scrap pictures, engravings, etc.

A vegetable glue, semi-fluid 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.

Prices in Screw-Cap Jars

3 oz.	Each	\$0 15
6 oz.	Each	25
14 oz.	Each	50
½ gal.	Each	2 00
1 gal.	Each	3 50

DENNISON'S GLUE

Dennison's Glue is a superb adhesive for heavier work. It is put up in tubes with patent spreading device and seal, and also in ¼ lb. cans. The latter is a handy thing about the studio and should be in every one.

Price

Glue Tube...	\$0 10
¼ lb. Glue Can	25



JELLITAC

A Paste in Powder Form

This is an ideal paste for mounting photographs on mounts or in albums. It is clean and will not stain.

You simply sprinkle the powder into a little cold water and it instantly turns into a beautiful snow white paste.

Package sufficient to make one quart.....	\$0 10
Package sufficient to make five gallons.....	1 00

DENNISON'S PASTE

A novel form of tube is used for this paste. It has a flat top and a small hole through which the paste is forced. When through with the tube, you seal the hole with a pin, as shown in cut.

Price

No. 3 Paste Tube.....	\$0 05
No. 4 Paste Tube.....	10



EASTMAN PHOTO PASTE

A solid first quality white paste. Will not cockle nor discolor print or mount.

Price

Eastman Photo Paste, 4 oz. jar.....	\$ 10
Eastman Photo Paste, 8 oz. jar.....	20
Eastman Photo Paste, 16 oz. jar.....	40
Eastman Photo Paste, gal. tin can.....	1 50

KODAK DRY MOUNTING TISSUE

KODAK DRY MOUNTING PRESSES

Price

Kodak Dry Mounting Press, 5x7.....	\$15 00
Kodak Dry Mounting Press, 11x14.....	50 00

Price of Tissue

Size	Pkg.	Price Per Pkg.	Price Per Gross
3½ x 3½	3 Doz.....	\$ 10	\$ 35
3½ x 4¼	3 Doz.....	10	35
3½ x 5½	2 Doz.....	10	55
3½ x 5½	2 Doz.....	10	55
4x 5	2 Doz.....	10	55
4¼ x 6½	1 Doz.....	10	80
5x 7	1 Doz.....	10	1 10
5x 8	1 Doz.....	10	1 10
3½ x 12	1 Doz.....	10	1 10
5½ x 7½	1 Doz.....	10	1 10
6x 8	1 Doz.....	15	1 60
6½ x 8½	1 Doz.....	15	1 60
7x 9	1 Doz.....	15	1 60
7½ x 9½	1 Doz.....	20	2 15
8x10	1 Doz.....	20	2 15
10x12	1 Doz.....	30	3 25
11x14	1 Doz.....	40	4 30
12x15	1 Doz.....	45	4 95
14x17	1 Doz.....	60	6 50
16x20	1 Doz.....	80	8 65
17x20	1 Doz.....	85	9 00
18x22	1 Doz.....	1 00	10 80
5 yards, 20 inches wide.....			75

Sundries

DUNNE'S TRANSPARENT PASTEL COLORS



These colors are prepared especially for coloring Lantern Slides and all kinds of photographic papers. They are called "Pastel Colors" because they give the soft, mellow effect of the dry pastel, and are partially composed of pastel chalk, though they will not wash off the picture. The outfit consists of 12 tubes of color with complete instructions and contained in a box.

Price of outfit\$1 25

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.

The Price

Velox Water Colors, complete booklet, 12 colors.....	\$0 25
Separate color leaves, each.....	05
Set of 3 special brushes, per set.....	50

WHITE INK FOR WRITING ON BLACK OR DARK CARDS

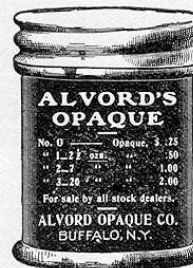
Price, per bottle.....\$0 15



ALVORD'S OPAQUE

In glass jars. It is readily thinned with water.

No. 0, oz.....	\$0 25
No. 1, 2½ oz.....	50
No. 2, 7 oz.....	1 00
No. 3, 20 oz.....	2 00
No. 4, 1 qt.....	8 00
No. 5, 2 qt.....	15 00



GIBON'S OPAQUE

A dry opaque in cake form to be applied with a brush, and is bound to stick.
Price, per cake\$0 50

ALVORD'S SPOTTER

In little pans of porcelain for convenience in using. It is made in three tones; cold, warm and sepia.
Price\$0 25

EASTMAN SPOTTING COLORS

Artistic Spotting Colors in Celluloid book, 4 colors.

Price, per set.....\$0 25

EAGLE MARL

For working in shadows and backgrounds on the negative it has no equal. It is invaluable for blocking out and re-touching.

Price, per jar.....\$1 00

LION'S HEAD INDIA INK

Price, per stick.....\$0 15

VICTOR OPAQUE

It is put up in moist condition and 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 in "just as good."

Prices

No. 0 ¾ oz.....	\$0 25
No. 1 2½ oz.....	50
No. 2 7 oz.....	1 00
No. 3 20 oz.....	2 00



PROBUS TRAY COATING

PROBUS is an acid, alkali and water-proof paint for coating trays and fixing boxes; it is in liquid form and is easily applied with brush. It dries quickly, and with gloss surface; not injurious to photographic chemicals; packed in sealed tin cans.

Price

Per ½ pint can.....	\$0 35
Per 1 pint can.....	0 65
Per 1 quart can.....	1 00
Per ½ gallon can.....	1 65
Per 1 gallon can.....	3 00



EASTMAN OPAQUE

For blocking out, and other similar work on negatives. Packed in collapsible tubes.

Price

Eastman Opaque No. 1, per tube.....	\$0 15
Eastman Opaque No. 2, per tube.....	25

Sundries

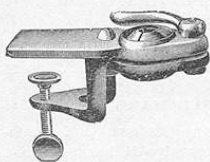


TABLE CLAMP

With this a screen can be attached to edge of table. It is useful in home portraiture, as it can be attached anywhere. Takes the side shades of the head screens above.

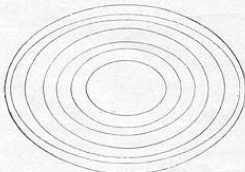
Price

Table Clamp.....\$1 75

EASTMAN'S DOUBLE COATED MOUNTING TAPE.

The Eastman's Double Coated Mounting Tape consists of a strip of thin, tough, white paper 1 inch in width, coated on both sides with a powerful adhesive, and is supplied in 100 foot rolls. It is just the method for tacking either double or single weight prints to folders or albums, and does not cause curling. Price, Eastman's Double Coated Mounting Tape, per 100 ft. roll.....\$0 15

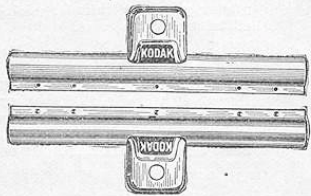
BRASS FORMS



These forms are made of hard brass, ground smooth and polished.

Price

No. 0 Oval 1 1/2 x 2	\$0 18
No. 1 Oval 2 x 2 1/2, old Cabinet	25
No. 2 Oval 3 x 4, Cabinet	22
No. 3 Oval 3 1/2 x 4 1/2, Cabinet	25
No. 4 Oval 2 1/2 x 3 1/2	22
No. 5 Oval 3 1/2 x 5 1/2	25
No. 6 Oval 4 1/2 x 6	25
No. 9 Circle 2 1/2 inches	25
No. 10 Circle 3 inches	25
No. 11 Circle 3 1/4 inches	25
A Oval 1 1/2 x 2 1/2	20
B Oval 1 1/2 x 3 1/2	20
C Oval 2 1/2 x 3 1/2	25
D Oval 1 1/2 x 2 1/2	22
E Oval 2 1/2 x 4 1/2	25
F Oval 2 1/2 x 5 1/2	25
G Oval 2 1/2 x 5 1/2	25
H Oval 1 1/2 x 3 1/2	25
J Oval 2 1/2 x 5 1/2	25
K Oval 3 1/2 x 6 1/2	25
L Oval 1 1/2 x 2 1/2	20
M Oval 2 1/2 x 3 1/2	22
N Oval 1 1/2 x 1 1/2	18
O Oval 4 1/2 x 6 1/2	90
P Oval 5 x 7	30
Q Oval 6 x 8	35
R Oval 7 x 9	1 20
S Oval 8 x 10	1 25



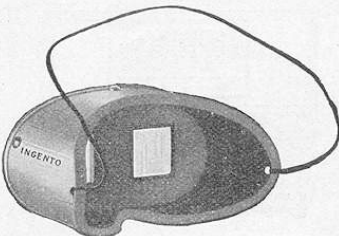
U. S. PHOTO CLIPS

Used to suspend films or paper when drying. They have strong springs and are very convenient for many purposes.

Price

Per dozen	\$0 20
Per gross	2 00

RETOUCHING HOOD



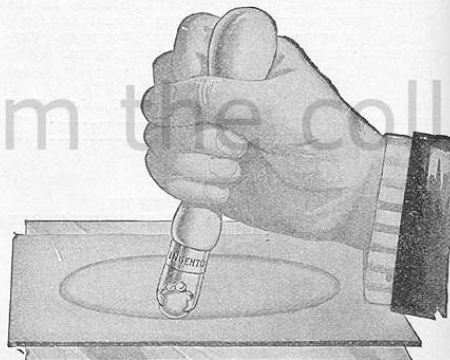
This clever device consists of an aluminum hood in which two lenses are set. These lenses are so placed that they form a single magnifying glass, of a power especially suited to retouching.

Among the advantages offered the retoucher by the Ingento Hood may be mentioned: A retouching glass of high quality, which relieves the constant strain on the worker's eyes; free use of both hands at all times, and a perfect shade for the eyes while working.

The hood is worn in the same manner as an ordinary eye shade. A strong elastic band is supplied. Hood is of beautifully finished aluminum, velvet band. Total weight only 4 ounces.

Price.....\$0 75

HAND EMBOSSEING TOOL



With the Hand 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.

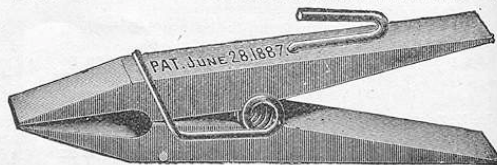
Each.....\$0 75

KODAK FILM DEVELOPING CLIPS

These are made in two grades, one of wood, and the other of metal, neatly nickel-plated. They are used to clip the ends of roll films, the weight of the lower one serving to keep the various films from fouling when drying, and the upper one is suspended by a hole in the projecting ear.

Price

3 1/2 in., nickel-plated, per pair	\$0 25
7 in., nickel-plated, per pair	35
5 in., wood, per pair	15



Studio Sundries

GUMMED PASSE-PARTOUT BINDING



In rolls of 12 yards, 7/8 of an inch wide.

No. 1, Black	No. 9, Dull Gold
No. 2, White	No. 10, Silver
No. 3, Gray	No. 16, Sage Green
No. 4, Bottle Green	No. 18, Bright Gold
No. 5, Brown	No. 19, Bronze Blue
No. 6, Red	No. 20, Bronze Green
No. 7, Blue	

These bindings are neat and attractive. They are made from pebbled paper, and an excellent quality of gum is used.

Price

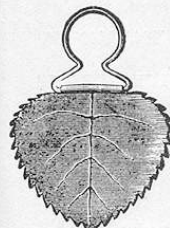
Per roll, except Nos. 9, 10 and 18.....	\$0 10
Per roll, Nos. 9, 10 and 18.....	20

SUSPENSION RINGS

For hanging up passe-partouts use one of the forms shown here.

The cloth suspension hanger is used to paste on the back of the picture or passe-partout to be hung.

The metal rings are put through a No. 1 false back for the passe-partout, and the brass ears turned back. The back is then bound to glass with the picture between.



No. 21



Price

No. 1, per box of 3 dozen.....	\$0 15
No. 21, per 100.....	25

PHOTOGRAPH HANGERS

For hanging photos on burlap covered walls, the hangers illustrated are just the thing. They have a pointed tang which catches in the meshes of the burlap. No. 25 has a slot which holds photo by its spring. No. 37 has a spring clasp arrangement which grips the photo like a vise. They will not injure the photographs in the slightest degree.



No. 25

Price

No. 25, per gross.....	\$0 30
No. 37, per gross.....	75

METAL PICTURE HANGERS



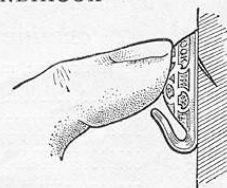
These are strong nickel-plated hooks for hanging up heavy photos, enlargements, placards, posters, etc.

Price

Per dozen.....	\$0 20
Per gross.....	1 75

THE HANDHOOK

Used for hanging up pictures, cards, signs, calendars, show window displays. It is neat and ornamental, and when pushed in properly till body lies flat against wall, will support a very heavy weight.



Price

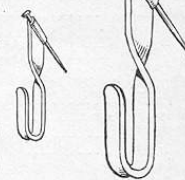
Handhook, per dozen.....	\$0 25
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MOORE'S HANGERS

A very handy device for hanging various articles without disfiguring the walls, will hold a weight of 20 pounds—made of lacquered brass, with steel points.

Price

Package of six hangers, Small.....	\$0 10
Package of three hangers, Large.....	10



PUSH PINS



No. 2

Glass-headed pins, for pinning up films to dry, photographs on walls, etc. In packages of six.

Price

Per package.....	\$0 10
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HOOKS AND PINS FOR HANGING PHOTOS

No. 9, Per gross.....	\$1 25
No. 9, Per dozen.....	15
No. 13, Per gross.....	1 75
No. 13, Per dozen.....	20
No. 46, Per gross.....	1 50
No. 46, Per dozen.....	15



Sundries

EASTMAN'S FLASHED OPAL GLASS

The Flashed Opal Glass is a new grade of porcelain flashed glass which is superior to any other glass ever used for diffusing light in enlarging cameras and diffusing screens. Having greater brilliancy, it creates an even illumination all over a plate from a single arc light, or other burner, where it would take four lights of ground glass for the same diffusion.

Price		
7x7	Each	\$0 75
8x10	Each	75
10x10	Each	90
10x12	Each	90
11x14	Each	1 50
14x17	Each	2 25
20x24	Each	3 00

GROUND GLASS

Extra fine mud ground.

Size	Price	Size	Price
3 1/4 x 4 1/4	\$0 10	10 x 12	50
4 x 5	15	12 x 12	50
5 x 7	20	11 x 14	50
5 x 8	20	11 x 14	50
8 1/2 x 8 1/2	25	14 x 17	75
8 x 10	30	17 x 17	1 50
10 x 10	50	20 x 20	2 00
10 x 12	50	22 x 22	2 00
12 x 12	50	24 x 24	2 50
11 x 14	50		
14 x 14	75		
17 x 17	1 50		
20 x 20	2 00		
22 x 22	2 00		
24 x 24	2 50		

RUBY AND ORANGE GLASS

Size	Price	Size	Price
4 x 5	\$0 10	10x12	\$0 35
5 x 7	15	11x14	45
6 1/2 x 8 1/2	20	14x17	70
8 x 10	25	16x20	1 00

CELLULOID—FOR PRINTING

The use of celluloid in printing has created interest among photographers and has met with much favor.

White celluloid ground on one side, placed between negative and paper, mat side next negative, has the effect of softening down the retouching and improves the gradation of the print.

Yellow celluloid placed under the negative gives the printing quality of a Pyro negative and produces stronger prints.

Blue celluloid is for use with contrasty negatives and reduces giving softer effects.

5 x 7	any color	\$0 10
6 1/2 x 8 1/2	any color	20
8 x 10	any color	25
20 x 25	any color	75
20 x 50	any color	1 50

Clear Transparent Celluloid for use when printing from wet negatives.

20x50	\$1 00
20x25	50

E. K. Co. Film Support. No. 1, sq. ft., 12c. No. 5, sq. ft., 22c.

FERROTYPE ENVELOPES

Price	
Arch or oval, per 1,000	\$1 75
Arch or oval, per 100	20

FERROTYPE PLATES

Price	Doz.	Case
Centennial Brand, 10x14	\$1 00	\$13 50
Peerless Brand, 10x14	65	9 50

SQUEEGEE PLATES

For glazing and flattening Prints. Heavy, Glossy.	Each	Doz.
Size.		
10x14 Heavy	\$0 20	\$2 00
14x20 Heavy	50	5 00
18x24 Heavy	70	7 75
24x36 Heavy	1 90	22 00

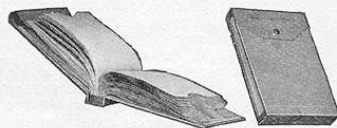
ROTARY GLASS CUTTER



This is an ingenious form of Rotary Glass Cutter, which has a battery of six wheels revolving in the turret head. When one wheel has outlived its usefulness, another may be revolved into place instantly. The extra cutters are protected by turret head.

Price	
Rotary Glass Cutter	\$0 35

EASTMAN FILM NEGATIVE ALBUMS



Each album contains 100 pockets made of strong paper and consecutively numbered from 1 to 100, and an index on white paper.

Price	
Eastman's Negative Albums for 100 negatives 3 1/2 x 3 1/2, or smaller	\$0 75
Eastman's Negative Albums for 100 negatives 2 1/2 x 4 1/4	75
Eastman's Negative Albums for 100 negatives 1 5/8 x 2 1/2	75
Eastman's Negative Albums for 100 negatives 3 1/4 x 4 1/4, 4x5 and 3 1/4 x 5 1/2	1 00
Eastman's Negative Albums for 100 negatives 5x7, or smaller	1 50

Paragon Border Negatives



Design No. 1

Designs Nos. 1, 2, 3, 4, 5, 6, 10, 11, 12, 13, 15, 16, 18 are made in four sizes, as follows:

Size	Outside Dimensions	Opening for Photo	The Price
Size A	5x7	3 in. long	\$1 50
Size B	8x10	4 1/2 in. long	2 00
Size C	11x14	6 in. long	2 50
Size D	14x17	9 in. long	3 00

PLAIN OVALS

No.	Outside Dimensions	Opening for Photo	Price
No. 20	5 x 7	2 x 2 3/4	\$0 75
No. 21	5 x 7	2 x 3 1/2	75
No. 22	6 1/2 x 8 1/2	2 x 3 3/4	85
No. 23	8 x 10	2 x 4 1/2	1 00
No. 24	6 1/2 x 8 1/2	2 x 4 3/4	85
No. 25	8 x 10	3 1/2 x 5	1 00
No. 26	8 x 10	4 x 6	1 00
No. 27	10 x 12	5 x 7	1 25
No. 28	11 x 14	6 x 8	1 50
No. 29	13 x 16	7 x 9	1 75
No. 30	13 x 16	7 x 9	1 75



Plain Oval



Plain Square

The Paragon Border Negatives are exceedingly delicate and artistic in design and are made on heavy film. Ample margins are provided for printing on large size papers, and each negative supplied with mask. Catalogue illustrating all designs sent on request.

Design No. 19 is made in six sizes, as follows:

Size	Outside Dimensions	Opening for Photo	Price
Size B	8x10	3 x 4 1/2	\$2 00
Size C	11x14	4 1/4 x 6	2 50
Size E	11x14	5 x 7	2 75
Size F	11x14	5 1/4 x 8	2 75
Size D	14x17	6 1/4 x 9	3 00
Size H	14x17	7 1/4 x 11	3 50

PLAIN SQUARES

No.	Outside Dimensions	Opening for Photo	Price
No. 40	5x7	2 1/4 x 3 1/2	\$0 75
No. 41	5x7	2 3/4 x 4	75
No. 42	8x10	3 x 4 1/2	1 00
No. 43	8x10	3 3/8 x 4 1/2	1 00
No. 44	8x10	4 x 5	1 00
No. 45	10x12	4 x 7	1 25
No. 46	10x12	5 x 7	1 25
No. 47	11x14	5 x 8	1 50
No. 48	11x14	6 x 8	1 50
No. 49	13x16	6 x 9	1 75
No. 50	13x16	7 x 9	1 75

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.

No.	Outside Dimensions	Size of Opening	The Price
1	4x5	1 1/2 x 2 1/2	\$0 06
2	4x5	2 x 2 1/2	06
3	4x5	2 1/2 x 3 1/2	06
4	4x5	2 3/4 x 3 1/2	06
5	4x5	3 1/2 x 3 1/2	06
6	4x5	2 1/2 x 3 1/2	06
7	4x5	3 1/2 x 4 1/2	06
8	5x7	3 1/2 x 5 1/2	10
9	5x7	3 1/2 x 4 1/2	10
10	5x7	4 1/2 x 6 1/2	10
11	5x7	2 1/2 x 5 1/2	10
12	5x7	3 1/2 x 4 1/2	10
13	6 1/2 x 8 1/2	4 1/2 x 6 1/2	15
14	6 1/2 x 8 1/2	5 x 7	15
A	5x7	2 x 2 1/2	10
B	5x7	2 1/4 x 4 1/2	10
C	5x7	3 x 5 1/4	10
D	5x7	3 1/2 x 5 1/4	10
E	8x10	3 1/2 x 5 1/2	20
F	8x10	3 3/4 x 5 3/4	20
G	8x10	4 1/2 x 6 1/2	20
H	8x10	5 1/2 x 7 1/2	20
K	11x14	4 1/2 x 6 1/2	30
L	11x14	5 1/2 x 7 1/2	30
M	11x14	6 1/4 x 8 1/4	30
N	11x14	6 3/4 x 8 1/4	30
O	11x14	7 x 8 3/4	30

MASKS FOR SWIVEL FRAMES

Size of Opening	Outside Dimensions—8 1/2 x 8 1/2	Price each	Size of Opening	Outside Dimensions—10 1/2 x 10 1/2	Price each
2 1/2 x 3 1/2	\$0 20	20	2 1/2 x 3 1/2	\$0 25	25
3 1/4 x 5 1/4	20	20	3 1/4 x 5 1/4	25	25
3 1/2 x 4 1/2	20	20	3 1/2 x 4 1/2	25	25
2 3/4 x 4 1/2	20	20	2 3/4 x 4 1/2	25	25

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.

The Price	
4 x 5	Per dozen sheets, \$0 60
5 x 7	Per dozen sheets, 1 00
6 1/2 x 8 1/2	Per dozen sheets, 1 50
8 x 10	Per dozen sheets, \$2 00
11x14	Per dozen sheets, 3 50

Sundries

MASK PAPER FOR CUT OUTS, ETC.
20x24, per doz. .25

BLOTTER PAPER

Eastman's Tested Blotters, 100 lb., 19x24, per doz.	\$ 0 45
Eastman's Tested Blotters, 100 lb., 19x24, 1/2 ream	4 25
Eastman's Tested Blotters, 100 lb., 19x24, 1/4 ream	7 50
Eastman's Tested Blotters, 100 lb., 19x24, 1 ream	13 50
Eastman's Tested Blotters, 100 lb., 10' 20" roll	25
Eastman's 15 lb. roll, 20" wide, about 725' per roll	10 50
Eastman's Tested Blotters, 120 lb., 19x24, 1/2 ream	5 00
Eastman's Tested Blotters, 120 lb., 19x24, 1/4 ream	9 00
Eastman's Tested Blotters, 120 lb., 19x24, 1 ream	16 00
Lintless, Chemically Pure, 100 lb., 19x24, per doz.	45
Lintless, Chemically Pure, 100 lb., 19x24, 1/2 ream	4 00
Lintless, Chemically Pure, 100 lb., 19x24, 1/4 ream	7 50
Lintless, Chemically Pure, 100 lb., 19x24, 1 ream	13 50
Cloth Finish, Chemically Pure, 19x24, per doz.	25
Cloth Finish, Chemically Pure, 19x24, 1/2 ream	2 00
Cloth Finish, Chemically Pure, 19x24, 1/4 ream	3 75
Cloth Finish, Chemically Pure, 19x24, 1 ream	7 00
World, Photo Finish, 100 lb., 19x24, per doz.	50
World, Photo Finish, 100 lb., 19x24, 1/2 ream	4 25
World, Photo Finish, 100 lb., 19x24, 1/4 ream	7 75
World, Photo Finish, 100 lb., 19x24, 1 ream	14 00

CLOTH-BACK PAPER

22 inches wide, 10-yard roll.....\$ 1 90

ALBUMEN PAPER

Eagle, extra brilliant, white, pink, pearl and pense
N. P. A., extra brilliant, white, pink, pearl and pense.
Per dozen Per 1/2 ream Per 1/4 ream Per ream
\$1 25 \$12 00 \$22 00 \$42 00

PLAIN SAXE PAPER

Per dozen\$ 0 50
Per ream18 00

CLEMENT'S SALTED PAPER

Mat Surface

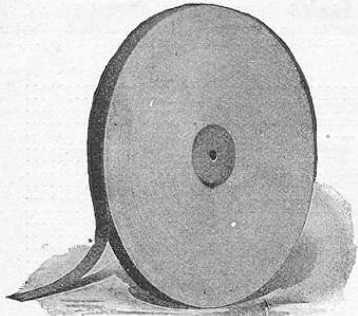
Per dozen, 18x22.....\$ 0 90
Per ream33 00

STANDARD GUMMED PAPER

Pure White, Best Quality

No. 1, 17x22, heavily gummed one side, per doz. \$ 0 25
No. 1, 20x25, heavily gummed one side, per doz. 30
STANDARD WHITE GUMMED (Both Sides)
No. 00, 17x22, best quality, per doz. \$ 0 35

GUM PAPER



Sheple's, per roll, 300 yards, 1/2 inch wide.....\$ 0 60

FILTERING PAPERS

French Round, in packs of 100 Sheets

No. 19, 7 1/2 in. diameter.....\$ 0 28
No. 25, 10 in. diameter.....36
No. 33, 13 in. diameter.....52
No. 40, 16 in. diameter.....64
No. 45, 18 in. diameter.....84
No. 50, 19 1/2 in. diameter.....96
Best square white filtering paper, per quire.....40

FILTERING COTTON
Finest Quality

2 oz. package.....\$ 0 10
4 oz. package.....15
8 oz. package.....25
16 oz. package.....40

ORANGE AND RUBY FABRICS

A substitute for glass, 37 inches wide, either color,
1 per yard.....\$ 0 40

RUBY AND POSTOFFICE PAPER

Ruby Paper, per sheet.....\$ 0 15
Postoffice Paper, per sheet.....05
Postoffice Paper, per dozen.....25

LITMUS PAPER

Reliable Litmus Paper, per bottle, 100 sheets.....\$ 0 10
Squibbs in bottles.....15

CEPA SKIN

The Best for Vignetting

Price, per dozen, 17x22.....\$ 0 20
Price, per ream, 17x22.....5 00

LANTERN SLIDE MATS
Standard sizes. Order by number

Per package of 25 mats, not assorted.....\$ 0 20
Per box of 100 mats, not assorted.....70
Per 1,000, bulk.....6 00

LANTERN SLIDE MATS

Our stock contains 36 different size of openings. A
chart showing the exact size and shape of each will be
sent on application.
Price, per 100.....\$ 0 00

LANTERN SLIDE BINDING STRIPS

They are put up 50 strips in a flat package.
Price, per package.....\$ 0 10

LANTERN SLIDE COVER GLASS

3 1/4 x 4. Made of imported crystal glass. 25 pieces in
a package.

Per pkg.
Half White\$ 0 40
Extra White Crystal.....60
Case Lot, 1,100 Sheets in case, per case.....\$12 00

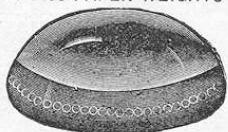


LANTERN SLIDE VISE

Holds slide and cover glass
in close contact while binding.

Price\$ 0 60

GLASS PAPER WEIGHTS



For Mounting Photos

Round, per dozen.....\$1 00 Each.....\$0 10
Oblong, per dozen.....1 00 Each.....10

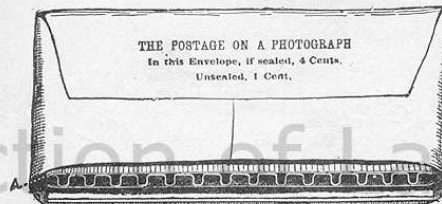
Sundries

PHOTOGRAPHIC ENCLOSURES.

Owing to the large number of sizes of photographic
mounts, we can only carry in stock those sizes in most
general use, but special sizes can be supplied on order.

Transparent White.	100	1000
3 1/2 x 7 1/2	\$0 20	\$1 75
Cabinet	15	1 00
4 1/2 x 8 1/2	30	2 35
4 1/2 x 7 1/2	30	2 25
4 1/2 x 7	30	2 25
5 x 7 1/2	35	2 50
5 x 8 1/2	35	2 50
5 1/2 x 7 1/2	20	1 60
5 1/2 x 9 1/2	35	2 50
5 1/2 x 9 1/2	35	2 50
6 x 8 1/2	30	2 25
6 x 8 3/4	35	2 75
6 x 9 1/4	35	2 75
6 x 11	45	3 25
6 1/2 x 10 1/2	40	3 00
7 x 9 1/2	45	3 25
7 x 10	45	3 25
7 x 11 1/2	50	3 75
7 1/2 x 10 1/2	45	3 25
8 1/2 x 11 1/2	45	3 25
8 1/2 x 10 1/2	45	3 25
10 1/2 x 12 1/2	70	5 75
11 1/2 x 14 1/2	90	7 50
12 1/2 x 14 1/2	90	7 50

PHOTOGRAPH MAILERS



These mailers are made from jute paper with heavy
corrugated board for stiffening and preventing the
photograph from bending, also a cardboard to protect
the photograph from being marred by the canceling
stamp in the postoffice.

Size	Price per 100
4 1/2 x 7	\$1 00
5 x 7 1/2	1 00
5 1/2 x 7 1/2	1 40
5 1/2 x 10 1/2	2 10
6 x 8	1 25
6 1/2 x 8 1/2	1 65
6 1/2 x 9 1/2	1 85
7 1/2 x 9 1/2	2 10
7 1/2 x 10 1/2	2 00
8 1/2 x 10 1/2	2 50
8 1/2 x 11 1/2	2 75
9 1/2 x 11 1/2	2 75
9 1/2 x 12 1/2	3 00
10 1/2 x 12 1/2	3 25
11 1/2 x 14 1/2	3 50
With Double Corrugated Board	
10 1/2 x 12 1/2	4 00
11 1/2 x 14 1/2	5 00
12 1/2 x 14 1/2	6 00

MANILLA ENVELOPES

Made of fine manilla paper. For delivering photos.
Prices Per Thousand, 40 Pound Paper

Size	Price per 1000
5 1/2 x 7 1/2	\$1 20
6 1/2 x 8 1/2	1 60
7 x 9	1 80
7 1/2 x 9 1/2	1 90
8 1/2 x 10 1/2	1 95
9 1/2 x 11 1/2	2 25
10 1/2 x 12 1/2	2 65
11 1/2 x 14 1/2	4 75
13 x 15	5 65
Other sizes made to order at proportionate prices.	7 50

NEGATIVE PRESERVERS

Stout manilla paper, one end open and cut to admit
the thumb and forefinger in removing negative; on the
front three printed lines for the number, name and re-
marks.

For Negatives	Per 100	Per 1,000
3 1/2 x 4 1/2	\$0 15	\$1 35
3 1/2 x 5 1/2	20	1 65
4 1/2 x 5 1/2	20	1 50
4 1/2 x 6 1/2	20	1 70
5 x 7	25	1 86
5 x 8	25	1 95
6 1/2 x 8 1/2	30	2 25
8 x 10	40	3 30
10 x 12	60	5 40
11 x 14	85	7 50
14 x 17	1 00	9 00

Packed 500 in a box.

NON-ACTINIC ENVELOPES

Orange Color

For Mailing Untoned Proofs

Size 4 1/2 x 6 1/2

Price:
Open End Plain, per 1000.....\$1 25 2M \$2 25
Open End Printed, per 1000.....2 00 2M 3 80
Open Side Plain, per 1000.....2 00 2M 3 75
Open Side Printed, per 1000.....2 75 2M 5 25

Kraft Proof Envelopes

Size 4 1/2 x 6 1/2

Price:
Open End Plain, per 1000.....\$1 25 2M \$2 25
Open End Printed, per 1000.....2 00 2M 3 50

OUR UNIVERSAL MAILER



Made of extra quality Kraft paper with heavy double
faced corrugated board. The special feature of this
Mailer makes it equally suitable for mailing one or one
dozen photos.

The following sizes only are carried in stock. Special
sizes made up in lots of not less than 500:

Size	Price per 1000
5 1/2 x 7 1/2	\$15 00
6 1/2 x 9 1/2	18 00
5 1/2 x 10 1/2	22 00
7 1/2 x 10 1/2	22 00
8 1/2 x 11 1/2	25 00
9 1/2 x 12 1/2	35 00
12 1/2 x 14 1/2	45 00

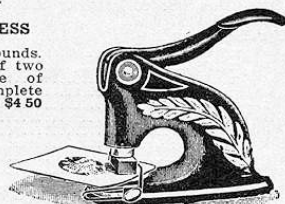
Hand Embossing Presses with Adjustable Gauges

Order Presses by Name—Order Style of Die by Number

SPECIMENS FOR HAND-EMBOSSING PRESSES

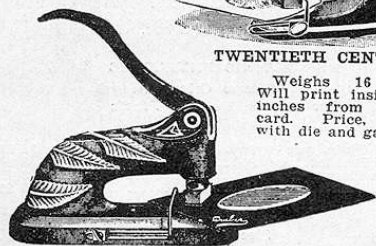
THE DEWEY EMBOSSING PRESS

Weights 5 pounds.
Will print inside of two inches from edge of card. Price, complete with die and gauge \$4.50



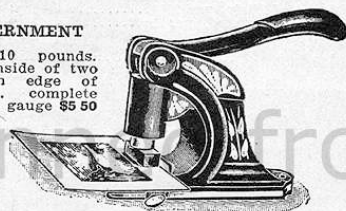
TWENTIETH CENTURY

Weights 16 pounds.
Will print inside of four inches from edge of card. Price, complete with die and gauge \$7.00



THE GOVERNMENT

Weights 10 pounds.
Will print inside of two inches from edge of card. Price, complete with die and gauge \$5.50



WE OPERATE OUR OWN PRINTING DEPARTMENT

In this department we are equipped to print, emboss or stamp cards in all styles. This plant is equipped with the latest improved machinery, thus enabling us to print your cards and ship the same the day your order is received, except where a longer time is required for special work. Every job we turn out is guaranteed for neatness and correctness. The same condition applies to our stock of envelopes, enclosures and photographic stationery.

Specimens of Printing and Double Stamping Dies.

Edgar C. Brown
STERLING, ILL.

Harper
LOCKPORT, ILL.

Harwood
BATAVIA, ILL.

89

OUR PRICES FOR PRINTING AND EMBOSSEING

	100	500	1000
Stamping silver or gilt....	\$0.40	\$1.50	\$2.50
Stamping plain (no color)...	25	75	1.00
Embossing raised, plain...	35	1.35	2.00
Embossing raised, in color	40	1.75	3.00
Stamping colored ink.....	25	75	1.25
Printing name and address on Enclosures and Envelopes	50	75	85



Specimens of Raised Embossing.



Marsh
721
MAIN ST
98

Kenney
ATTICA, IND.
99

Barrett
HAMPTON, IA
101

Green
ST. LOUIS & ILL.
103

J.B. Smith
MARSHALL, IA
104

Walter Ware
BOYNE CITY, MICH.
105

Chellett
NEW ORLEANS, LA
106

Elite
R.R. PHOTO
100

Photographs
ARCOLE
107

Erlor
216-1218 S. ADAMS ST.
PEORIA, ILL.
102

Amantour
GRAND CHUTE, WIS.
108

W. Estline
DE KALB, ILL.
109

PRICES—PLAIN EMBOSSEING DIES

Two lines	Three lines	Four lines
\$3.25	\$3.75	\$4.25

DOUBLE EMBOSSEING DIES

For raised letters on folders, light mounting board and double weight paper. Prices.....\$6.00 to \$10.00

SUNDRIES

R. O. C. POST CARD PRINTER

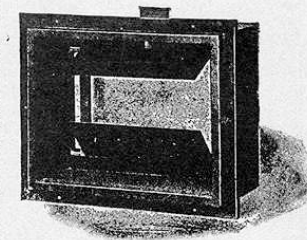
The R.O.C. Post Card Printer is made for the man who desires an inexpensive, yet rapid and trustworthy machine for printing developing-out post cards.

The R.O.C. Post Card Printer may be used with either artificial or daylight, but the use of artificial light is recommended owing to its greater uniformity.

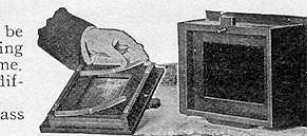
The operation of the R.O.C. Post Card Printer is similar to that of an ordinary hand-printing press, as shown in the accompanying illustration. Drop the card into place against the negative, close the frame by means of the small hand lever; at the expiration of the exposure pull back on the lever, which opens the frame and drops the exposed card. The action of closing the frame automatically opens the exposure shutter, and opening the frame closes it. Every mechanical feature is positive in action, and practically impossible to get out of order.

The negative is placed in position by removing the front of the printer, and lifting out the spring retained back as shown in the illustration. The printing opening is made full cabinet size, and a cut-out is furnished for post card size, so that the entire surface of the card may be printed, or any portion masked as desired; both negative and mask being retained firmly in position by the strong springs at each end of the frame. The back of the light box is fitted with a sheet of fine ground glass for diffusing the light, which glass can be removed or replaced instantly.

The wood parts are constructed of cherry, handsomely finished, all brass fittings polished and lacquered.



Showing interior construction with Shutter partly opened



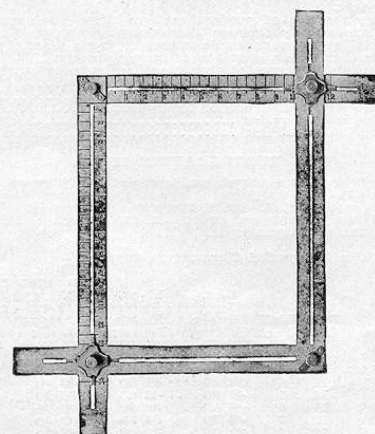
Showing Printer with front removed for changing negative

R.O.C. Post Card Printer.....

PRICE

\$7.50

EASTMAN'S DUPLEX SQUARE

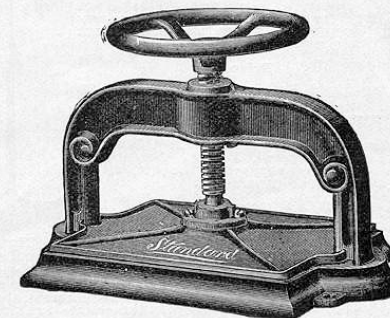


The Eastman Duplex Print Square made an instantaneous hit at the National Convention. It is a simple, double square device which may be set at any desired size. By its use it is a simple matter to judge the best proportions for trimming prints or cutting masks.

The moderate price should make it a part of the equipment of every studio.

Price\$3.50

THE STANDARD FLATTENING PRESS



Made for flattening unmounted prints. They are made heavy and durable. Neatly Jap enameled black. Every studio should have one for keeping their prints in shape after drying. Made in two sizes.

No. 4s. Size of bed 10x13, Weight 55 lbs., each. \$5.25

No. 5s. Size of bed 10x15½, Weight 70 lbs., each. 6.00

SUNDRIES

THE IMPROVED PERCY KING LIGHT CONTROLLER



The Controller does not lengthen the exposure or cut out any of the illumination. It simply tones down the direct light at any point desired. It should be placed between the subject and the light. It is made in several styles, fitted with different fabrics.

Price

No. 1 King Light Controller, Black Canton Flannel Screens and Apron...\$10 00
No. 2 King Light Controller, White Cheese Cloth, Screens and Apron...\$10 00
No. 3 King Light Controller, Yellow Cheese Cloth, Screens and Apron...\$10 00
No. 4 King Light Controller, Black Felt Cloth, Screens and Apron...\$12 00
No. 5 King Light Controller, Black Velvet, Screens and Apron...\$15 00

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

HESS IMPROVED HEAD REST

When raised, the rest is 6 feet 7 inches high; when lowered, 3 feet. Nothing is on sale which approaches the quality of this stand, price considered.

Price

Hess Head Rest...\$3 25

WHITE POSING SUPPORT No. 1

This posing support may be adapted to any height. The ear clips of the support have a swiveling wrist motion as well as a lateral spread adjustment, both controlled by the same joint. A detachable back rest has facilities for easy and quick adjustment.

Price

White's Posing Support No. 1...\$20 00

WHITE POSING SUPPORT No. 2

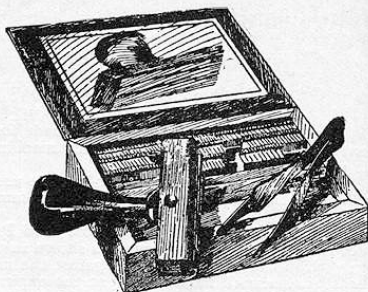
Price

White's Posing Support No. 2...\$14 00

THE INGENTO HEAD REST

No. 2 is a heavy and very substantial Rest, has universal ball joint and can be adjusted to any position. Price...\$6 00
Back rest, extra...2 00

SUPERIOR REVERSED RUBBER TYPE



The Superior Outfit consists of a full set of type as shown in the cut, also a type holder and forceps for handling the type. It is possible with this outfit to neatly title all negatives and thus add greatly to their appearance. Price of outfit, postpaid...\$1 25
Bottle of ink, extra...10

TITLET

(Patent Applied for.)

The simplest and most perfect method of titling negatives. Titlet consists of a plate of glass to which is attached 1,300 small letters and figures. Being made of thin metal they are opaque and sharp in their outline. They are easy to apply and are used by many leading photographers. They are superior to outfits sold at many times their cost. It is worth the price of this outfit for one negative. Price, complete outfit...\$0 50

THE PHOTOSCRIPT

Consists of a set of reversed metal-bodied rubber-faced type, known as a Six A font. One metal holder for setting up the type for printing. One ink roller. One can of specially prepared ink and one package of crimson bronze. Directions for use accompany each outfit.

For the use of professional or other photographers we can supply Rubber Photocript Stamps of names, special signatures, trade marks, private marks, monograms, or other imprints at special prices.

Complete Photocript Outfit, either large or small type...\$3 75
Extra font of type, either large or small...2 50
Extra long metal holder for type...50
Extra inkling roller...25
Extra boxes of ink...10

PHOTOGRAPHIC TENTS

Best machine-sewed, and complete with poles, ropes and pins. If no poles or ropes are wanted, the price will be deducted. All tents are cash, and in no case will we accept an order unless at least half the amount accompanies it.

Write for special discount on tents.

			10-oz.	10-oz.	12-oz.	12-oz.
			Double	Double	Double	Double
			Filling	Filling	Filling	Filling
			or 3-oz.	or 3-oz.	or 3-oz.	or 3-oz.
			Army	Army	Army	Army
			Duck	Duck	Duck	Duck
Size	Pole	Wall	Single	Single	Single	Single
In. Feet			Filling	Filling	Filling	Filling
12x14	11	6	\$26 50	\$31 00	\$36 50	\$41 50
12x16	11	6	29 50	33 00	39 50	45 00
12x18	11	6	32 00	37 50	45 00	51 00
12x21	11	6	36 00	41 50	49 00	56 00
12x24	11	6	40 00	46 00	54 00	62 00
12x28	11	6	46 00	53 00	63 00	71 00
12x30	11	6	49 50	57 50	67 00	76 00
14x16	12	6	33 00	39 00	47 00	53 00
14x18	12	6	35 50	41 50	49 50	56 50
14x21	12	6	40 00	46 00	55 50	62 00
14x24	12	6	43 50	50 00	60 00	68 00
14x28	12	6	49 50	57 50	68 00	78 00
14x30	12	6	53 50	62 00	73 50	83 00
16x18	13	6	39 00	45 50	54 50	62 00
16x21	13	6	44 00	51 50	61 00	69 50
16x24	13	6	48 00	56 00	66 50	75 50
16x28	13	6	53 50	63 50	75 50	85 50
16x30	13	6	58 00	68 00	81 00	91 50

Dark rooms extra. Size 6x6. \$13 00. 4 1/2x4 1/2. \$11 00

Above prices include poles and pins

Eastman Non-Curling Film Cartridge

Non-Halation

SCHEDULE

Orthochromatic

Only Films in Same Group Are Interchangeable

SIZE	NO. OF FILM	CAMERAS	4	6	8	12	CARTRIDGES FOR ROLL HOLDERS
			EXP.	EXP.	EXP.	EXP.	
1 1/2x2	102	Pocket Kodak				.25	In ordering cartridges, be sure and state that they are for Cartridge Roll Holder, giving length of spool and size of roll holder.
1 1/2x2 1/2	127	VEST POCKET KODAK		.20			3 1/2-inch Cartridge, for No. 2 Cartridge Roll holder, 6 exposures...\$0 30
	*121	{ No. 0 Folding Pocket Kodak... No. 0 Graphic... }	.15		.25		3 1/2-inch Cartridge, for No. 3 Vertical Cartridge Roll holder, 6 exposures...35
2 1/4x2 1/4	117	No. 1 Brownie		.15			4-inch Cartridge, for No. 1 Horizontal Cartridge Roll holder, 6 exposures...45
		{ No. 1 Folding Pocket Kodak... No. 1 Panoram Kodak... }	.20		.40		5-inch Cartridge, for No. 4 Vertical Cartridge Roll holder, 6 exposures...45
2 1/4x3 1/4	105		.20		.40		7-inch Cartridge, for No. 5 Cartridge Roll Holder, 6 exposures...80
	110	{ No. 2 Brownie... No. 2 Folding Pocket Brownie... }	.20				
2 1/2x4 1/4	*116	{ No. 1A Folding Pocket Kodak... No. 1A Folding Pocket Kodak R.R. Type... No. 2A Brownie... No. 2A Folding Pocket Brownie... No. 1A Speed Kodak... No. 1A Folding Hawk-Eye Camera... }	.25		.50		
3 1/4x4 1/4	118	{ No. 3 Special Kodak... No. 3 Folding Pocket Kodak... No. 5 Weno Hawk-Eye Camera... No. 3 Folding Hawk-Eye Camera... }	.25	.35	.70		
	124	{ No. 3 Folding Brownie... No. 3 Bulls-Eye Kodak... }					
	119	No. 3 Cartridge Kodak (4 1/2" spool)					
3 1/2x5 1/2	*122	{ No. 3A Folding Pocket Kodak... No. 3A Special Kodak... No. 3A Folding Brownie... No. 7 Weno Hawk-Eye Camera... No. 3A Folding Hawk-Eye Camera... }	.30	.40	.70		
	125	{ No. 3B Quick Focus Kodak... No. 2 Stereo Brownie Camera... No. 3B Folding Hawk-Eye Camera... No. 6 Weno Hawk-Eye Camera... }					
3 1/2x3 1/2	101	{ All 3 1/2x3 1/2 Kodaks and Hawk-Eye take the same cartridges... }	.20	.30	.50		
	123	{ No. 4 Folding Pocket Kodak... No. 4 Screen Focus Kodak... No. 4 Folding Hawk-Eye Camera... }	.30	.45	.90		
4 x5	103	{ No. 4 Bulls-Eye... No. 4 Bulls-Eye Special... No. 4 Bullet... No. 4 Weno Hawk-Eye Camera... }	.30	.45	.75		
		{ No. 4 Panoram Kodak... }	.45	.65			
4 1/2x6 1/2	*126	{ No. 4 Cartridge Kodak (5" spool)... No. 4A Folding Kodak... No. 4A Speed Kodak... }	.45	.65			
5 x7	115	No. 5 Cartridge Kodak	.55	.80			

*SPEED FILM MAY BE HAD FOR CAMERAS IN THESE GROUPS

EASTMAN N. C. or HAWKEYE. Owing to the fact that we are now supplying both Eastman N. C. Film and Hawk-Eye Film, it will be necessary to specify just what is wanted when ordering. When orders do not specify we will ship Eastman N. C.

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."

Cirkut Film

Only Eastman N. C. Film is supplied for the Cirkut Cameras. This Film is furnished in Daylight-loading Cartridges.

Price

For Cirkut Outfits No. 6 and No. 8: Per roll
6 1/4 in. x 3 ft.\$0 80
6 1/2 in. x 6 ft.1 60
6 1/2 in. x 10 ft.2 60
8 in. x 4 ft.1 30
8 in. x 8 ft.2 60
For Cirkut Cameras No. 10 and No. 16: Per roll
6 in. x 5 ft.\$1 20
6 in. x 10 ft.2 40
6 in. x 15 ft.3 60
8 in. x 10 ft.3 20
8 in. x 15 ft.4 80
For Cirkut Cameras No. 10 and No. 16: Per roll
8 in. x 20 ft.\$6 40
10 in. x 4 ft.1 60
10 in. x 6 ft.2 40
10 in. x 10 ft.4 00
10 in. x 15 ft.6 00
10 in. x 20 ft.8 00
12 in. x 6 ft.2 90
12 in. x 10 ft.4 80
12 in. x 15 ft.7 20
16 in. x 6 ft.3 85
16 in. x 10 ft.6 40
16 in. x 20 ft.12 80

Photographic Chemicals

Prices subject to market fluctuations

EASTMAN TESTED CHEMICALS

	Container	1 oz.	¼ lb.	½ lb.	1 lb.	5 lb.	25 lb.
Acid—Acetic (25%)	Bot.	\$0 09			\$5 18	\$60 60	25 1b.
Acetic, Glacial.....	Bot.				50	2 50	
Citric, Powd.	Bot.	15	\$0 30	45	80	3 25	
Muriatic, C. P.	Bot.	15	21	28	35		
Nitric, C. P.	Bot.	15	21	28	35		
Oxalic.....	Bot.	12	24	32	35		
Phosphoric (50%).....	Bot.	12	21	32	52		
Pyrogallic, Resublimed.....	Can.	20	65	1 20	2 10	10 00	
Pyrogallic, Crystals.....	Bot.	20	65	1 20	2 10	10 00	
Sulphuric, C. P.	Bot.	15	24	29	48		
Sulphurous.....	Bot.	15			40		
Tartaric.....	Bot.				60		
Acrol Developer	Bot.	40	1 45	2 75	5 00		
Aium	Cart.				10	40	
Powdered.....	Cart.	15	30	45	80		
Aluminum Chloride	Bot.	10		45			
Ammonium—Sulphocyanate	Bot.				15		
Borax	Cart.						
Elon	Bot.	45	1 60	2 85	5 25		
Formaldehyde (45%)	Bot.	09		47	85	4 00	
Hydrochinon	Can.	13					
Iodine—Resublimed	Bot.	45			40		
Lead—Acetate	Bot.	10			40		
Acetate.....	Cart.	10			40		
Nitrate.....	Bot.	09			30		
Magnesium—Powder	Can.	25					
Magnesium—Foder	Can.		75	1 40	2 50		
Mercury Bichloride	Bot.	25	45	85	1 60		
Potassium—Bromide	Can.	12	30	50	80	3 60	
Carbonate.....	Bot.		25	15	25		
Ferricyanide.....	Bot.	10	25	40	75		
Iodide.....	Bot.	35	1 35	2 40	4 00		
Oxalate.....	Cart.				30		
Permanganate.....	Bot.	10	25	40			
Metabisulphite.....	Bot.	10	20	35	60		
Sulphocyanate.....	Bot.	15			1 20		
Sodium—Acetate	Bot.	10	15	20	35		
Bicarbonate.....	Cart.				10		
Carbonate, Dessicated.....	Can.				20	90	
Carbonate, Dessicated.....	Can.				35	65	3 25
Sodium—Nitrate	Can.		15		35		
Sulphide.....	Bot.	10	15	25	40		
Sulphite, Dessicated.....	Bot.				30	1 35	
Sulphite, Dessicated.....	Can.				22	85	4 25
Royleon Developer E. K.		50	1 85	3 50	6 50		
Tozol Developer E. K.		20	70	1 30	2 50		
	Qt.		Pt.				
Alcohol, wood		45	25				

Acid —Acetic No. 8 C. P.	C. B.	1 lb.	\$0 18	Pyrogallic-Resublimed, Mallinckrodt's	Can	1 lb.	2 10
Acetic, No. 8, C. P.	C. B.	5 lb.	50	Pyrogallic-Resublimed, Mallinckrodt's	Cans	5 lb.	10 00
Acetic, No. 8, C. P.	Carboy, 105 lbs.	1 lb.	04/2	Pyrogallic, Eastman's crystal.		1 oz.	20
Carboy, 105 lbs.			2 00	Pyrogallic, Eastman's crystal.		4 oz.	65
Acetic Acid, 28%	1 gal.	jug	60	Pyrogallic, Eastman's crystal.		8 oz.	1 10
Acetic Acid, 28%	2 gal.	jug	1 00	Pyrogallic, Eastman's crystal.		1 lb.	2 10
Acetic Acid, 28%	5 gal.	jug	2 25	Acid —Sulphuric	G. S. V.	1 oz.	15
Acetic Acid, Glacial.	C. B.	1 oz.	15	Sulphuric	G. S. B.	4 oz.	25
Acetic Acid, Glacial.	C. B.	4 oz.	20	Sulphuric	G. S. B.	8 oz.	30
Acetic Acid, Glacial.	C. B.	8 oz.	25	Sulphuric	G. S. B.	1 lb.	35
Acetic Acid, Glacial.	C. B.	1 lb.	40	Sulphuric	G. S. B.	5 lb.	1 25
Citric, crystals	C. B.	1 lb.	75	Sulphurous	G. S. B.	1 lb.	60
Citric, crystals	C. B.	8 oz.	50	Tartaric	C. B.	1 lb.	40
Citric, crystals	C. B.	4 oz.	30	Acetonesulphite	Cart.	2 oz.	30
Citric, crystals	C. V.	1 oz.	15	Acetonesulphite	Cart.	4 oz.	55
Citric, crystals	G. S. V.	4 oz.	15	Acetonesulphite	Cart.	1 lb.	1 00
Muriatic, C. P.	G. S. B.	4 oz.	18	Adulor	C. V.	1 oz.	60
Muriatic, C. P.	G. S. B.	8 oz.	25	Adulor	C. B.	4 oz.	20
Muriatic, C. P.	G. S. B.	1 lb.	35	Adulor	G. S. B.	8 oz.	40
Muriatic, C. P.	G. S. B.	6 lb.	95	Adulor	C. B.	1 lb.	8 50
Nitric, C. P.	G. S. V.	2 oz.	15	Agfa Intensifier	C. B.	4 oz.	50
Nitric, C. P.	G. S. B.	4 oz.	25	Agfa Intensifier	C. B.	8 oz.	90
Nitric, C. P.	G. S. B.	8 oz.	30	Agfa Intensifier	C. B.	1 lb.	1 60
Nitric, C. P.	G. S. B.	16 oz.	35	Agfa Reducer	C. B.	4 oz.	65
Oxalic, crystals, Technical	Cart.	1 lb.	35	Alcohol, wood	E. K.	1 qt.	45
Oxalic, crystals, Technical	C. V.	4 oz.	15	Alum —Powdered	Cart.	1 lb.	10
Oxalic, crystals, Technical	C. V.	8 oz.	25	Powdered	Box	5 lb.	40
Phosphoric, U. S. P. 50%	C. V.	1 oz.	10	Powdered	Box	10 lb.	75
Phosphoric, U. S. P. 50%	C. V.	2 oz.	15	Powdered	M. C. W.	100 lb.	5 00
Phosphoric, U. S. P. 50%	C. B.	4 oz.	20	Chrome, crystals	C. B.	1 lb.	15
Phosphoric, U. S. P. 50%	C. B.	8 oz.	30	Chrome, crystals	Box	5 lb.	60
Phosphoric, U. S. P. 50%	C. B.	1 lb.	45	Chrome, powdered	Cart.	5 lb.	75
Phosphoric, U. S. P. 50%	C. B.	5 lb.	1 50	Chrome, powdered	Cart.	5 lb.	75
Pyrogallic-Resublimed, Mallinckrodt's	Cans	1 oz.	20	Amidol	C. V.	1 oz.	50
Pyrogallic-Resublimed, Mallinckrodt's	Cans	4 oz.	65	Amidol	C. B.	4 oz.	1 75
Pyrogallic-Resublimed, Mallinckrodt's	Cans	8 oz.	1 20	Amidol	C. B.	8 oz.	2 00
Pyrogallic-Resublimed, Mallinckrodt's	Cans	1 lb.	1 20	Amidol	C. B.	5 lb.	50
				Ammonia , Stronger U. S. P. 26°	G. S. B.	1 lb.	35
				Stronger U. S. P. 26°	G. S. B.	4 lb.	75

Size	No. of Doz. in Case	Seeds 26X 23, 20 G. V. and Tropical Per Doz.	Stand-Extra Imperial and Chrome Thermic	Stanley Regular and Commercial	W. & W. Standard Ortho-Plastic and W. W. Extra Process Panormatic	Hammer Extra Special and Extra Fast	No. of Doz. in Case	Seed Ortho and Non-Halo Ortho	Seeds Non-Halo and Non-Halo Ortho	Eastman's Plates No Env.	W. & W. Eastman's Plates in Env.	Cramers of Crown Banner X	Cramers in Doz. in Case	POST CARD PLATES		
														Dozen in Case	Stanley Case	Hammer Case
2 x 2	30	\$ 0.25	\$ 0.25	\$ 0.25	30	\$ 0.25	\$ 0.30	30	\$ 0.25
2 x 2 1/2	30	.25	.25	.25	30	.25	.30	30	.25
2 1/2 x 3	30	.30	.30	.30	30	.30	.35	30	.30
2 1/2 x 4	30	.35	.35	.35	30	.35	.40	30	.35
3 x 3	30	.35	.35	.35	30	.35	.40	30	.35
3 1/2 x 3 1/2	30	.40	.40	.40	30	.40	.50	30	.40
4 x 3 1/2	30	.40	.40	.40	30	.40	.50	30	.40
4 x 4 1/2	30	.45	.45	.45	30	.45	.55	30	.45
4 x 4	30	.60	.60	.60	30	.60	.75	30	.60
4 1/2 x 4 1/2	30	.60	.60	.60	30	.60	.75	30	.60
4 x 5	30	.65	.65	.65	30	.65	.80	30	.65
4 1/2 x 5 1/2	30	.65	.65	.65	30	.65	.80	30	.65
5 x 5	30	.75	.75	.75	30	.75	.85	30	.75
5 1/2 x 5 1/2	30	.90	.90	.90	30	.90	1.10	30	.90
6 x 6	30	.90	.90	.90	30	.90	1.10	30	.90
6 1/2 x 6 1/2	30	1.10	1.10	1.10	30	1.10	1.40	30	1.10
7 x 7	20	1.25	1.25	1.25	20	1.25	1.55	20	1.25
7 1/2 x 7 1/2	12	1.65	1.65	1.65	12	1.65	2.10	12	1.65
8 x 8	10	2.10	2.10	2.10	10	2.10	2.65	10	2.10
8 1/2 x 8 1/2	10	2.40	2.40	2.40	10	2.40	3.00	10	2.40
9 x 9	3	6.00	6.00	6.00	3	6.00	7.25	3	6.00
9 1/2 x 9 1/2	2	9.00	9.00	9.00	2	9.00	11.25	2	9.00
10 x 10	1	13.25	13.25	13.25	1	13.25	16.40	1	13.25
10 1/2 x 10 1/2	1	14.00	14.00	14.00	1	14.00	17.25	1	14.00
11 x 11	1	16.50	16.50	16.50	1	16.50	20.40	1	16.50
11 1/2 x 11 1/2	1	20.00	20.00	20.00</											

CHEMICALS—Continued

Ammonium—Bichromate	C. V.	1 oz.	20	Iodine	G. S. V.	1 oz.	35
Bichromate	C. B.	1 lb.	90	Iodine	G. S. B.	1 lb.	3 35
Bromide	C. V.	1 oz.	13	Iron and Ammonium Citrate—			
Bromide	C. B.	1 lb.	80	Green Scales	C. V.	1 oz.	20
Carbonate	C. V.	1 oz.	10	Green Scales	C. B.	1 lb.	1 00
Carbonate	C. B.	1 lb.	40	Iron—Sulphate (Ferrous Sulphate),			
Chloride	C. V.	1 oz.	15	crystals	Tins	1 lb.	10
Chloride	C. B.	1 lb.	30	Protosulphate	Tins	1 lb.	10
Iodide	C. V.	1 oz.	40	Iron and Ammonia Protosulphate			
Iodide	C. B.	1 lb.	4 10	(Ferrous Ammonium Sulphate) C. B.	1 lb.	20	
Persulphate	C. V.	1 oz.	15	Lead—Acetate	Cart.	1 oz.	10
Persulphate	C. B.	4 oz.	30	Acetate	Cart.	1 lb.	35
Persulphate	C. B.	8 oz.	50	Nitrate	Cart.	1 oz.	10
Persulphate	C. B.	1 lb.	90	Nitrate	Cart.	1 lb.	25
Acetone		1 gallon jug	2 25	Magnesium—Metal, powdered	Tins	1 oz.	25
Ammonium—Sulphocyanide	C. V.	1 oz.	15	Metal, powdered	Tins	4 oz.	75
Sulphocyanide	C. B.	4 oz.	30	Metal, powdered	Tins	8 oz.	1 40
Sulphocyanide	C. B.	8 oz.	50	Metal, powdered	Tins	1 lb.	2 50
Sulphocyanide	C. B.	1 lb.	90	Metal, powdered	Tins	5 lb.	11 25
Benzole	C. B.	1 lb.	35	Ribbon	Rolls	1 oz.	60
Borax—Crystals	Cart.	1 lb.	15	Very finely powdered	Tins	1 lb.	2 75
Powdered	Cart.	1 lb.	15	Mercury Bichloride (see Corrosive Sublimate).			
Powdered	Cart.	5 lb.	55	Metol	C. V.	1 oz.	50
Cadmium—Bromide	C. V.	1 oz.	20	Metol	C. B.	4 oz.	1 75
Bromide	C. B.	4 oz.	50	Metol	C. B.	8 oz.	3 00
Bromide	C. B.	8 oz.	90	Metol	C. B.	1 lb.	5 50
Bromide	C. V.	1 lb.	1 65	Ortol	C. V.	1 oz.	50
Chloride	C. V.	1 oz.	25	Ortol	C. V.	4 oz.	1 75
Iodide	C. B.	1 oz.	40	Ortol	C. B.	8 oz.	3 00
Iodide	C. B.	4 oz.	1 00	Ortol	C. B.	1 lb.	5 50
Iodide	C. B.	8 oz.	1 90	Ortol, tubes (with Soda)		per set	35
Iodide	C. B.	1 lb.	3 50	Paraffine		1 lb.	25
Copper—Chloride	C. V.	1 oz.	15	Paper, Litmus—Blue and red, 100 strips			10
Sulphate	Cart.	1 oz.	15	in vial			
Corrosive Sublimate (Bichloride Mercury)				Potassium—Bi-chromate, crystals	C. V.	1 oz.	12
Corrosive Sublimate	C. V.	1 oz.	15	Bi-chromate, crystals	Cart.	1 lb.	25
Corrosive Sublimate	C. V.	4 oz.	40	Bromide, crystals	Cart.	1 oz.	10
Corrosive Sublimate	Box	8 oz.	70	Bromide, crystals	Bxs.	4 oz.	25
Corrosive Sublimate	Box	1 lb.	1 30	Bromide, crystals	Bxs.	8 oz.	40
Collodions—Anthony's New Negative	Bot.	8 oz.	50	Bromide, crystals	Bxs.	1 lb.	65
Anthony's Positive	Bot.	8 oz.	50	Bromide, crystals	Bxs.	5 lb.	2 85
Cotton—Anthony's Negative	Cart.	1 oz.	50	Carbonate (Salts Tartar)	Tins	1 lb.	25
Dianol	C. V.	1 oz.	50	Carbonate (Salts Tartar)	Tins	5 lb.	75
Duratol		1 oz.	50	Caustic, C. P. Sticks	C. V.	1 oz.	12
Duratol		1/4 lb.	1 60	Chloro Platinate, M. C. W. C. V.	C. B.	1 lb.	45
Duratol		1/2 lb.	3 10	Chloro Platinate, M. C. W. C. V.	1/4 doz.	15 gr.	10
Duratol		1 lb.	6 00	Chloro Platinate, M. C. W. C. V.	1 doz.	15 gr.	10
Edinol	C. B.	1 oz.	60	Chloro Platinate, M. C. W. C. V.	1/4 gr.	14 gr.	25
Edinol	C. B.	4 oz.	2 20	Chloro Platinate, M. C. W. C. V.	1/2 oz.	14 gr.	25
Edinol	C. B.	8 oz.	4 20	Platinite fluctuates. Will be			
Edinol	C. B.	1 lb.	7 50	billed at lowest market price.			
Eikonogen	Can	1 oz.	30	Subject to Change Without Notice.			
Eikonogen	Can	4 oz.	95	Potassium—Cyanide, fused	Tins	8 oz.	25
Eikonogen	Can	8 oz.	1 70	Cyanide, fused	Tins	1 lb.	45
Eikonogen	Can	1 lb.	2 95	Ferricyanide (Red Prus.)	Cart.	1 oz.	10
Elon	C. B.	1 oz.	45	Ferricyanide (Red Prus.)	Cart.	4 oz.	20
Elon	C. B.	4 oz.	1 60	Ferricyanide (Red Prus.)	Cart.	8 oz.	35
Elon	C. B.	8 oz.	2 85	Ferricyanide (Red Prus.)	Cart.	1 lb.	55
Elon	C. B.	1 lb.	5 25	Ferricyanide (Red Prus.)	Box	5 lb.	2 50
Ether—Conc. U. S. P. 1900	Can	1 lb.	40	Ferricyanide (Yellow Prus.)	Cart.	1 oz.	10
Conc. U. S. P. 1900	C. Bot.	3 lb.	1 05	Ferricyanide (Yellow Prus.)	Cart.	4 oz.	20
Conc. U. S. P. 1900	Cans	5 lb.	1 65	Ferricyanide (Yellow Prus.)	Cart.	8 oz.	35
Formaldehyde	C. B.	1 lb.	40	Ferricyanide (Yellow Prus.)	Cart.	1 lb.	55
Glycin	C. V.	1 oz.	50	Iodide, cryst.	C. V.	1 oz.	35
Glycin	C. B.	4 oz.	1 75	Iodide, cryst.	C. B.	4 oz.	1 15
Glycin	C. B.	8 oz.	3 00	Iodide, cryst.	C. B.	8 oz.	2 10
Glycin	C. B.	1 lb.	5 50	Iodide, cryst.	C. B.	1 lb.	3 75
Glycerine	C. B.	4 oz.	15	Potassium—Meta, Bi-Sulphite	C. V.	1 oz.	15
Glycerine	C. B.	8 oz.	20	Meta, Bi-Sulphite	C. B.	4 oz.	20
Glycerine	C. B.	1 lb.	35	Meta, Bi-Sulphite	C. B.	8 oz.	35
Gold Chloride—Mallinckrodt's	C. V.	15 gr.	45	Meta, Bi-Sulphite	Bot.	5 lb.	1 50
Mallinckrodt's	C. V.	1/2 oz.	5 00	Oxalate, Neutral	Tins	1 lb.	25
Mallinckrodt's	C. V.	1 oz.	11 75	Oxalate, Neutral	Tins	5 lb.	1 00
S. W. & Co.	C. V.	15 gr.	42	Potassium—Meta, Bi-Sulphite	C. V.	1 oz.	10
S. W. & Co.	C. V.	1/2 oz.	4 80	Permanganate	C. B.	1 lb.	35
S. W. & Co.	C. V.	1 oz.	8 25	Phosphate (Mono Basic)	C. V.	1 oz.	15
S. W. & Co.	C. V.	1/2 oz.	11 50	Phosphate (Mono Basic)	C. B.	4 oz.	30
Hydrochinon	Cart.	1 oz.	13	Phosphate (Mono Basic)	C. B.	8 oz.	50
Hydrochinon	Cart.	4 oz.	27	Phosphate (Mono Basic)	C. B.	1 lb.	80
Hydrochinon	Cart.	8 oz.	47	Sulpho Cyanide	C. V.	1 oz.	20
Hydrochinon	Cart.	1 lb.	85	Sulphur	C. B.	1 lb.	30
Hydrochinon	Cart.	5 lb.	4 00	Sulphuret	C. B.	1 lb.	30
Pyrol	Cart.	1 oz.	25	Pyrol	Cart.	1 oz.	25
Pyrol	Cart.	4 oz.	75	Pyrol	Cart.	8 oz.	1 25
Pyrol	Cart.	1 lb.	1 25	Pyrol	Cart.	1 lb.	2 25

CHEMICALS—Continued

Rodinal	Bot.	3 oz.	54	Eikonogen	Can	1 lb.	2 95
Rodinal	Bot.	8 oz.	99	Eikonogen	Can	1/2 lb.	1 70
Rodinal	Bot.	16 oz.	1 60	Eikonogen	Can	3/4 lb.	95
Rhodol		1 oz.	45	Eikonogen	Can	1 oz.	39
Rhodol		4 oz.	1 50				
Rhodol		8 oz.	2 90	Elon	C. B.	1 oz.	45
Rhodol		16 oz.	5 50	Elon	C. B.	4 oz.	1 60
Silver—Nitrate	C. V.	1 oz.	60	Elon	C. B.	8 oz.	2 85
Nitrate	C. B.	4 oz.	2 20	Elon	C. B.	1 lb.	5 25
Nitrate	C. B.	8 oz.	4 45				
Nitrate	C. B.	1 lb.	8 00				
Subject to Change Without Notice.							
Soda—Acetate, C. P.	Cart.	1 oz.	10	Hydrochinon	Cart. or Can	1 lb.	85
Acetate, C. P.	Cart.	4 oz.	12	Hydrochinon	Cart. or Can	1/2 lb.	47
Acetate, C. P.	Cart.	8 oz.	16	Hydrochinon	Cart. or Can	3/4 lb.	27
Acetate, C. P.	Cart.	1 lb.	20	Hydrochinon	Cart. or Can	1 oz.	13
Bicarbonate, powd.	Cart.	1 lb.	10	Metol	C. V.	1 oz.	50
Bisulphite, dry	C. B.	1 lb.	30	Metol	C. B.	1/2 lb.	1 75
Caustic, C. P. sticks	C. V.	1 oz.	10	Metol	C. B.	1 lb.	3 00
Caustic, C. P. sticks	C. B.	3 oz.	20	Metol	C. B.	1 lb.	5 50
Caustic, C. P. sticks	C. B.	1 lb.	40				
Carbonate, Cryst.	Tins	1 lb.	12	Ortol	Bot.	1 oz.	50
Carbonate, Cryst.	Tins	5 lb.	45	Ortol	Bot.	4 oz.	1 75
Carbonate, Cryst.	Bot.	1 lb.	25	Ortol	Bot.	8 oz.	3 00
Carbonate, Cryst.	Bot.	5 lb.	60	Ortol Tubes (with Soda)	Bot.	16 oz.	5 50
Carbonate, Photo, Pure	Tins	1 lb.	17				35
Carbonate, Photo, Pure	Tins	5 lb.	65	Pyrogallol Acid—Resublimed—			
Carbonate, Photo, Pure	Bot.	1 lb.	25	Mallinckrodt's & E. K.	Can	1 lb.	2 10
Carbonate, Photo, Pure	Bot.	5 lb.	80	Mallinckrodt's	Can	1/2 lb.	1 20
Carbonate, Dried	Tins	1 lb.	15	Mallinckrodt's	Can	3/4 lb.	65
Carbonate, Dried	Tins	5 lb.	55	Mallinckrodt's	Can	1 oz.	20
Carbonate, Seed's	Bot.	1 lb.	25	E. K. Crystal Pyro.	Can	1 oz.	20
Carbonate, Seed's	Bot.	5 lb.	1 00	E. K. Crystal Pyro.	Can	1/2 lb.	65
Carbonate, Eastman's	Can	1 lb.	17	E. K. Crystal Pyro.	Can	1 lb.	2 10
Carbonate, Eastman's	Can	5 lb.	65				
Carbonate, Eastman's	Can	25 lb.	3 25	Pyrol	Cart.	1 oz.	25
Carbonate, Eastman's	Bot.	1 lb.	20	Pyrol	Cart.	1 lb.	2 40
Carbonate, Eastman's	Bot.	5 lb.	95				
Hypo-sulphite, Granular or Pea Cryst.		1 lb.	05	Rodinal	Bot.	3 oz.	54
Hypo-sulphite, Granular or Pea Cryst.		6 lb.	25	Rodinal	Bot.	8 oz.	99
Hypo-sulphite, Granular or Pea Cryst.		25 lb.	85	Rodinal	Bot.	16 oz.	1 60
Hypo-sulphite, Granular or Pea Cryst.	Full						
Hypo-sulphite, Granular or Pea Cryst.	Kegs	100 lb.	2 25	BAYER PHOTOGRAPHIC PRODUCTS			
Hypo-sulphite, Granular or Pea Cryst.	Bbl.	350 lb.	7 50	Edinol, Powder, Developer	Bot.	1 oz.	60
Meta-Bisulphite	C. V.	1 oz.	45	Edinol, Powder, Developer	Bot.	4 oz.	2 20
Meta-Bisulphite	C. B.	1/4 lb.	25	Edinol, Powder, Developer	Bot.	8 oz.	4 20
Meta-Bisulphite	C. B.	1/2 lb.	35	Edinol, Powder, Developer	Bot.	16 oz.	7 50
Meta-Bisulphite	C. B.	1 lb.	65				
Sodium Nitrate	Bot.	1 oz.	10	Acetonesulphite, Powder	Box	2 oz.	30
Sodium Nitrate	Bot.	1/4 lb.	12	Acetonesulphite, Powder	Box	4 oz.	55
Sodium Nitrate	Bot.	1/2 lb.	20	Acetonesulphite, Powder	Box	16 oz.	1 90
Sodium Nitrate	Bot.	1 lb.	35				
Phosphate	C. V.	1 oz.	10	DEVELOPERS, CHEMICALS AND CHEMICAL PREPARATIONS			
Phosphate	C. B.	1 lb.	25	DEVELOPERS, POWDER FORM			
Sulphate	Tins	1 lb.	15	Azo Developer Powders, 12 powders for 48 oz. developer			\$ 0 50
Sulphite	C. B.	1 lb.	10	Azo Developer Powders, 6 powders for 24 oz. developer			25
Sulphite	C. B.	1/4 lb.	20	Eastman's Eikonogen Developer Powders, per pkg. of 12 for 48 oz. developer			50
Sulphite	C. B.	1/2 lb.	25	Eastman's Eikonogen Developer Powders, per pkg. of 6 for 24 oz. developer			25
Sulphite	C. B.	1 lb.	40	Eastman's Hydrochinon Developer Powders, per pkg. of 12 for 48 oz. developer			50
Sulphite, Cryst.	Tins	5 lb.	40	Eastman's Hydrochinon Developer Powders, per pkg. of 6 for 24 oz. developer			25
Sulphite, Cryst.	Bot.	1 lb.	20	Eastman's Hydrochinon, Eikonogen, Pyro or Special Developer Powders, in hermetically sealed tubes, per pkg. of 5 tubes			25
Sulphite, Cryst.	Bot.	5 lb.	60	Special Developer Powders, paper wrapped pkg.			25
Sulphite, Recryst.	Bot.	1 lb.	25	Eastman's M. Q. Tubes, box of 100 tubes			5 03
Sulphite, Recryst.	Bot.	5 lb.	80	Per tube			05
Sulphite, Anhydrous	Tins	1 lb.	22	Eastman's Plate Tank Developing Powders, for use in 5x7 Plate, pkg. of 6			35
Sulphite, Anhydrous	Tins	5 lb.	75	Eastman's Plate Tank Developing Powders, for 8x10 Plate Tank			50
Sulphite, Anhydrous	Bot.	1 lb.	30	Eastman's Professional Kodak Tank and Machine Powders, per pkg. for 48 oz. Stock Solution			60
Sulphite, Anhydrous	Bot.	5 lb.	1 25	Eastman's P-S Developer Powders, per pkg.			40
Sulphite, Dried	Tins	1 lb.	20	Eastman's Pyro Powders, per pkg. of 12 for 48 oz. developer			50
Sulphite, Dried	Tins	5 lb.	60	Eastman's Pyro Powders, per pkg. of 6 for 24 oz. developer			25
Sulphite, Seed's	Bot.	1 lb.	35	Kodak Developing Powders, for 3 1/2-in. Tank Developer, Style A Machine, and 4x5 Plate Tank, per pkg. of 6 dozen			20
Sulphite, Seed's	Bot.	5 lb.	1 50	Kodak Tank Developing Powders, for V. P. Tank, per pkg. of 6 powders			15
Sulphite, Eastman's	Bot.	1 lb.	30				
Sulphite, Eastman's	Bot.	5 lb.	1 35				
Sulphite, Eastman's	Can	1 lb.	22				
Sulphite, Eastman's	Can	5 lb.	85				
Sulphite, Eastman's	Can	25 lb.	4 25				
Tungstate, C. P.	C. V.	1 oz.	12				
Tungstate, C. P.	C. B.	1 lb.	1 50				
Uranium—Nitrate	G. S. V.	1 oz.	45				
Nitrate	G. S. B.	1 lb.	4 15				
DEVELOPING AGENTS.							
Adurrol	Cart.	1 oz.	60				
Amidol	Bot.	1 oz.	50				
Amidol	Bot.	4 oz.	1 75				
Amidol	Bot.	8 oz.	3 00				
Amidol	Bot.	16 oz.	5 50				
Dianol		1 oz.	50				
Edinol	Bot.	1 oz.	60				
Edinol	Bot.	4 oz.	2 20				
Edinol	Bot.	8 oz.	4 20				
Edinol	Bot.	16 oz.	7 50				

DEVELOPING AGENTS.

Adurrol	Cart.	1 oz.	60
Amidol	Bot.	1 oz.	50
Amidol	Bot.	4 oz.	1 75
Amidol	Bot.	8 oz.	3 00
Amidol	Bot.	16 oz.	5 50
Dianol	Bot.	1 oz.	50
Edinol	Bot.	1 oz.	60
Edinol	Bot.	4 oz.	2 20
Edinol	Bot.	8 oz.	4 20
Edinol	Bot.	16 oz.	7 50

BAYER PHOTOGRAPHIC PRODUCTS

Edinol, Powder, Developer	Bot.	1 oz.	60
Edinol, Powder, Developer	Bot.	4 oz.	2 50
Edinol, Powder, Developer	Bot.	8 oz.	4 20
Edinol, Powder, Developer	Bot.	16 oz.	7 50

Acetonesulphite, Powder	Box	2 oz.	30
Acetonesulphite, Powder	Box	4 oz.	55
Acetonesulphite, Powder	Box	16 oz.	1 90

DEVELOPERS, CHEMICALS AND CHEMICAL

PREPARATIONS

DEVELOPERS, POWDER FORM

Azo Developer Powders, 12 powders for 48 oz. developer			\$ 0 50
Azo Developer Powders, 6 powders for 24 oz. developer			25
Eastman's Eikonogen Developer Powders, per pkg. of 12 for 48 oz. developer			50
Eastman's Eikonogen Developer Powders, per pkg. of 6 for 24 oz. developer			25
Eastman's Hydrochinon Developer Powders, per pkg. of 12 for 48 oz. developer			50
Eastman's Hydrochinon Developer Powders, per pkg. of 6 for 24 oz. developer			25
Eastman's Hydrochinon, Eikonogen, Pyro or Special Developer Powders, in hermetically sealed tubes, per pkg. of 5 tubes			25
Special Developer Powders, paper wrapped pkg.			25
Eastman's M. Q. Tubes, box of 100 tubes			5 00
Per tube			05
Eastman's Plate Tank Developing Powders, for use in 5x7 plate, pkg. of 6			35
Eastman's Plate Tank Developing Powders, for 8x10 Plate Tank			50
Eastman's Professional Kodak Tank and Machine Powders, per pkg. for 48 oz. Stock Solution			60
Eastman's P-S Developer Powders, per pkg. of 12 for 48 oz. developer			40
Eastman's Pyro Powders, per pkg. of 6 for 24 oz. developer			50
Kodak Developing Powders, for 3 1/2-in. Tank Developer, Style A Machine, and 4x5 Plate Tank, per pkg. of 1/2 dozen			20
Kodak Tank Developing Powders, for V. P. Tank, per pkg. of 6 powders			15

CHEMICALS—Continued

CHEMICAL PREPARATIONS—Continued

Kodak Developing Powders, for 5 in. and 7 in. Tank Developer or Style E Machine.....	\$ 25
Kodak Developing Powders, for Style H Machine.....	35
Kodak Developing Powders, for Brownie Tank, Brownie Developing Box or Developing Machine.....	15
Nepera Developer Powders, per lb. pkg.....	1 75
Nepera Developer Powders, per 1 lb. pkg.....	50
Nepera Developing Agent, powdered form, sufficient for 250 oz. Paper Solution or 1,000 oz. Plate Solution, per bottle.....	60
Nepera Metol Quinol N. A. Tubes, box containing 5 tubes.....	75
Premo Film Pack Tank Powders, No. 1, per pkg. of 6, 20; No. 2, per pkg. of 6.....	25
Premo Film Pack Tank Powders, No. 3, pkg. of 6.....	35
Royal Re-Developer, per pkg.....	75
Eastman's E-B Developer, 1 lb., 60; ½ lb., 35; ¼ lb., Eastman's E-S Pat. Developer, ¼ lb., 20; ½ lb., 35; 1 lb.,.....	60
Kodak N. A. M-Q Developer, per pkg., 3 tubes.....	25

DEVELOPERS' LIQUID

N. A. Velox Liquid Developer, 4 oz. bottle.....	\$ 25
N. A. Velox Liquid Developer, 16 oz. bottle.....	75
N. A. Velox Liquid Developer, 4 oz. bottle in mailing tube (postage extra, 12 cents).....	30
N. A. Velox Liquid Developer, ½ gal. bottle.....	2 00
N. A. Velox Liquid Developer, 5 gal. keg.....	10 00
Nepera Solution, 4 oz. bottle.....	20
Nepera Solution, 16 oz. bottle.....	60
Nepera Solution, ½ gal. bottle.....	1 60
Nepera Solution, 5 gal. jug.....	9 00
Velox Re-Developer, per box containing 14 capsules Bleaching Agent, 4 oz. Concentrated Re-Developer.....	50
Velox Re-Developer, 2 oz. bottle and capsules.....	30
Velox Re-Developer, per tube, 5; per doz.....	60

SEED'S SPECIALTIES

Metol-Hydro Powders, in pkgs.....	Each ½ Doz. \$0 05
Eiko-Hydro Powders, in pkgs.....	05
Hydrochinnon Powders, in pkgs.....	05
Pyro Powders, in pkgs.....	05
Carbonate Soda, 1 lb., 25; 5 lb. bottle.....	1 00
Sulphate Soda, 1 lb. 35c; 5 lb. bottle.....	1 50

INTENSIFIERS

To Increase Intensity

Agfa, for Plates and Film, per bottle, 4 oz.....	\$0 50
Victor, for Plates and Film, 4 oz., per bottle.....	35
Victor, for Plates and Film, 8 oz., per bottle.....	65
Intensifier, for Plates and Films, per tube.....	15
Eastman's, 8 oz. bottle.....	35
Eastman's, per tube.....	15
Simplex, 2 oz., 25; 4 oz., 50; 10 oz.....	1 00

REDUCER

For Plates and Film. To Reduce Intensity

Agfa Reducing Salts, per bottle.....	\$0 80
Eastman's, per pkg. of 5 tubes.....	25

LITMUS PAPER

In glass tubes. It is chemically pure and will not deteriorate by age if it is kept corked.
 Scubbs Litmus Paper, either red or blue, per bottle, 100 sheets.....\$0 15
 Eastman's Litmus Paper, either red or blue, per bottle, 100 sheets.....10

ARTURA SPECIALTIES

Developer Powder, box of 6 cartridges, No. 1.....	\$0 25
Developer Powder, box of 6 cartridges, No. 2.....	50
Artura Sepia Salt, box of 6 cartridges.....	50

ARTURA SODAS

Artura Soda, 1 lb. Carbonate, bottle.....	\$0 25
Artura Soda, 5 lb. Carbonate, can.....	1 00
Artura Soda, 1 lb. Sulphate, bottle.....	30
Artura Soda, 5 lb. Sulphate, can.....	1 25

ANGELO SPECIALTIES

Angelo Sepia Solution, ½ gal. bottle.....	\$6 40
Angelo Sepia Solution, 1 pint bottle.....	2 00
Angelo Sepia Solution, 8 oz. bottle.....	1 05
Angelo Sepia Solution, 3 oz. bottle.....	40
Angelo Sepia Solution, 2 oz. Amateur size.....	30
Angelo Sepia Salts, ½ lb.....	30
Angelo Sepia Salts, ¼ lb.....	15
Angelo Sepia Salts, Amateur size.....	10

AMERICAN ARISTOTYPE SPECIALTIES

American Platinum Developer, No. 1, for 16 ozs.....	\$0 15
American Platinum Developer, No. 2, for 50 ozs.....	35
American Platinum Developer, No. 3, for 100 ozs.....	60
Aristo Gold, per bottle, size No. 1.....	50
Aristo Gold, per bottle, size No. 2.....	1 00
Aristo Gold, per bottle, size No. 3.....	2 00
Aristo Platinum Sol., per bottle, size No. 1.....	50
Aristo Platinum Sol., per bottle, size No. 2.....	1 00
Aristo Single Toner, per bottle, size No. 1.....	50
Aristo Single Toner, per bottle, size No. 2.....	1 00

EK SUNDRIES

Eastman's Acid Hardener, per pkg.....	\$0 25
Eastman's Ground Glass Substitute, 4 oz. bottle.....	40
Eastman's Retoucher and Stain Remover for reducing negatives, pkg., containing 5 tubes.....	25
Intensifier, 8 oz. bottle.....	35
Kodak Acid Fixing Powders, per lb. pkg.....	25
Kodak Acid Fixing Powders, per pkg. of ½ lb.....	15
Kodak Acid Fixing Powders, per pkg. of ¼ lb.....	10
Nepera Capsules for use with Nepera Solution, per dozen.....	15
Nepera Waxing Solution, 4 oz. bottle.....	20
Solio Hardener, 8 oz. bottle.....	35
Solio Hardener, ½ gal. bottle.....	1 75
Solio Toner, 4 oz. bottle.....	30
Solio Toner, 8 oz. bottle.....	50
Solio Toner, ½ gal. bottle.....	2 00
Velox Liquid Hardener, per 4 oz. bottle.....	15
Velox Liquid Hardener, per 8 oz. bottle.....	25
Velox Liquid Hardener, per ½ gallon.....	1 25

VARNISHES

Adamantine Varnish, 6 oz. bottle.....	\$0 40
Adamantine Varnish, 16 oz. bottle.....	1 00
Adamantine Varnish, 32 oz. bottle.....	1 90
Adamantine Varnish, gallon.....	7 00
Anthony's Flint Varnish, 6 oz. bottle.....	40
Anthony's Flint Varnish, 16 oz. bottle.....	1 10
Anthony's Flint Varnish, 32 oz. bottle.....	2 00
Anthony's Dry Plate Varnish, 6 oz. bottle.....	1 10
Anthony's Dry Plate Varnish, 16 oz. bottle.....	1 10
Anthony's Dry Plate Varnish, 32 oz. bottle.....	2 00
Anthony's Diamond Varnish Ferrottype, 6 oz. bottle.....	40
Anthony's Diamond Varnish Ferrottype, 16 oz. bottle.....	1 10
Anthony's Diamond Varnish Ferrottype, 32 oz. bottle.....	2 00
Eastman's Retouching Varnish, 16 oz. bottle.....	50
Hammer Retouching, 16 oz. bottle.....	50

RETOUCHING FLUID

Eastman's, per bottle.....	\$0 25
Retoucho, per bottle.....	25

HARDENERS

Solio, Powdered, per box.....	\$0 40
Velox, Liquid Hardener, 4 oz. bottle.....	15
Velox, Liquid Hardener, 8 oz. bottle.....	25
Solio, 8 oz. bottle Solution.....	45
Solio, ½ gal. bottle Solution.....	1 75

PHOTOGRAPHIC GELATINE

Nelson's No. 1, per pound.....	\$2 00
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Standard Brands of Sensitive Papers

DESCRIPTION OF THE PAPERS LISTED

Can be had in the following grades, which are the highest grade of gas-light papers:

Velvet—Semi-gloss Contrasty.
Velvet Special—Semi-gloss, Soft-working
Carbon—Smooth Matte, Contrasty-working.
Carbon Special—Smooth Matte, Soft-working.
Glossy—Enameled Surface, Contrasty-working.
Glossy Special—Enameled Surface, Soft-working.
Portrait Special—Semi-Matte, Soft-working.
Rough Special—Rough Surface, Soft-working.
 "It is also made in Double Weight."
Royal Velox—Buff Stock, Matte Surface.

EASTMAN'S BROMIDE, FOR ENLARGEMENTS
Velvet—Suited for negatives with broad shadows.
Standard A.—Thin Smooth for contact printing and enlarging.

Standard B.—Heavy Smooth, large enlargements to be finished in India Ink or Water Colors.

Standard C.—Heavy Rough, large enlargements, for finishing in Crayon or Pastel colors.

Platino A.—Thin Smooth for contacts and small enlarging.

Platino C.—Heavy Rough, large enlargements in Crayon or Pastels.

Matte-Enamel—Medium Weight only. Can be squeezed slightly tinted in high lights. Excellent for Sepia Tones.

Royal Matte—In Smooth or Rough, especially for sepia cream tint paper.

Royal—Buff Stock Matte, surface contrasty.

Royal Special—Buff Stock Matte, Surface Soft.

SOLIO-KRESKO

Are gelatin printing-out papers yielding warm, gold tones to a dark purple. They are especially fine for squeezeing, producing high gloss work. For portraits, landscapes, or commercial work.

ARISTO PLATINO

A pure collodion matte surface paper, yielding tones ranging from a beautiful sepia to a rich, velvety black, equal to the best carbon effects, also to olive black tones. It lies flat by double mounting.

ARISTO GOLD

A pure Collodion Matte Paper, yielding beautiful carbon sepia tones by simply washing prints and fixing in hypo bath. Purple tones can also be obtained by adding salt.

COLLODIO CARBON

An extra heavy matte paper made in smooth and rough surfaces yielding the same tones as Aristo Platino.

ARISTO CARBON SEPIA

This gives rich sepia tones resembling closely the genuine carbon tissue by simply washing and fixing in hypo. It is extra heavy like a postal card.

ARTURA

A developing paper with a remarkable latitude, unequalled for quality, richness and uniform excellence, giving better gradation than any other developing paper.

IRIS

A—Regular Weight, Smooth, Semi-Matte.
 B—Double Weight, Smooth, Semi-Matte.
 C—Double Weight, Smooth, Matte (no lustre).
 D—Double Weight, Medium Rough, Matte (no lustre).
 E—Double Weight, Buff, Smooth Matte, and Medium Rough.

CHLORIDE

Heavy Smooth, Double Weight, Smooth Matte (no lustre).
 Medium Rough, Medium Weight, Light grain (no lustre).

NON-CURLING

Satin, Regular Weight, Smooth, Semi-Matte.
 Extra Heavy, Double Weight, Smooth, Semi-Matte.

ZELTA, AN ALBUMEN PRINTING-OUT PAPER.

Will be furnished in the following grades:

Grade	Color	Surface	Weight
A	White	Gros-grain	Light
B	White	Smooth-laid	Medium
C	Chamois	Semi-rough	Medium
D	Chamois	Gros-grain	Heavy

CARBON GREEN

Matte, Regular Weight, Smooth (slight lustre).
 Extra Heavy, Double Weight, Smooth, Semi-Matte.

CARBON BLACK

Glossy, Regular Weight, Smooth Glossy.
 Studio Special, Regular Weight, Smooth Semi-Matte.
 Matte, Regular Weight, Smooth (slight lustre).
 Rough Matte, Double Weight, Medium Rough Lustre.
 Extra Heavy, Double Weight, Smooth, Semi-Matte.
 Buff, Double Weight, Rough Matte.

ARISTO GOLD POSTAL CARDS

A superior grade sensitized post card consisting of extra heavy grade of pure paper. The simplest manipulation produces beautiful sepia or purple tones.

AMERICAN PLATINUM

A cold developing paper, yielding the most beautiful black and white platinum tones. No solarizing in the shadows or fuzzing or abrading of surface in handling. Made in Heavy Smooth, Heavy Rough, Extra Heavy Smooth and Extra Heavy Rough.

AZO

An artificial light developing paper producing black and white effects in following grades, both Hard, Hard X and Soft:

	Soft	Hard	Hard X
A. (Carbon)	SW & DW	SW & DW	SW & DW
B. (Rough)	SW & DW	SW & DW	
C. (Glossy Pense)	SW & DW	SW & DW	SW
D. (Semi-Gloss)	SW & DW	SW & DW	
E. (Semi-Matte)	DW	SW & DW	SW & DW
F. (Glossy)		SW	SW & DW
G. (Matte)		SW	SW
H. (Buff)		DW	
H. (Buff Special)			DW

AZO POST CARDS

A. Soft, Hard and Hard X.
 C. Soft and Hard.
 E. Soft, Hard and Hard X.
 F. Hard X only.
 K. Semi-gloss, Solid White Stock, (in Post Card only).

P. M. C. BROMIDE, FOR ENLARGEMENTS

No. 1—Tin Smooth for contact prints.
 No. 2—Heavier than No. 1 for large prints.
 No. 3—Heavy Rough for crayon or air brush.
 No. 4—Glossy for negatives where prints are not to be worked.
 No. 5—Matte for enlarging crayon or air brush work.
 No. 6—Extra Heavy Smooth for very large prints.
 No. 7—Extra Heavy Rough for very large prints.
 No. 8—Double Weight, Buff Smooth, Postals, Matte, Semi-gloss and Glossy.

ANGELO PLATINUM

A cold developing paper producing the most beautiful sepia portraits of any paper on the market. It is used in all the leading studios of the United States and Europe.

FERRO PRUSSIAN

A high-grade Blue Print paper requiring only to be washed in clear water after printing.

ETCHING BLACK PLATINUM

A Platinum paper decidedly different from the ordinary cold blue black. The gradation and richness of the Platinum black is there but also a warmth not found in other black and white Platinum papers.
 Made in two surfaces: Smooth and Rough. Also Etching Sepia Platinum made on Buff and White Stock.

Sensitive Papers

ARTURA PAPER PRICE LIST

GRADE A.				GRADE B C AND D E SMOOTH AND ROUGH.				GRADE A.			
Size.		One-half Dozen.		Size.		One-half Dozen.		Size.		One-half Dozen.	
3 1/2 x 5 1/2 (Cabinets)		Gross.	\$ 1.10	3 1/2 x 5 1/2 (Cabinets)		Gross.	\$ 1.10	10-foot rolls (20 in. wide), per roll		10-foot rolls (20 in. wide), per roll	
4 x 5		1.10	2.00	4 x 5		1.10	2.00	10-foot rolls (40 in. wide), per roll		10-foot rolls (40 in. wide), per roll	
4 x 6		1.10	2.00	4 x 6		1.10	2.00	10-foot rolls (20 in. wide), per roll		10-foot rolls (20 in. wide), per roll	
4 1/4 x 6 1/4		1.65	2.80	4 1/4 x 6 1/4		1.65	2.80	10-foot rolls (40 in. wide), per roll		10-foot rolls (40 in. wide), per roll	
4 x 8		1.35	2.40	4 x 8		1.35	2.40	10-foot rolls (20 in. wide), per roll		10-foot rolls (20 in. wide), per roll	
5 x 7		1.35	2.40	5 x 7		1.35	2.40	10-foot rolls (40 in. wide), per roll		10-foot rolls (40 in. wide), per roll	
5 x 8		1.35	2.40	5 x 8		1.35	2.40	10-foot rolls (20 in. wide), per roll		10-foot rolls (20 in. wide), per roll	
6 x 8		1.35	2.40	6 x 8		1.35	2.40	10-foot rolls (40 in. wide), per roll		10-foot rolls (40 in. wide), per roll	
6 1/2 x 8 1/2		1.65	2.80	6 1/2 x 8 1/2		1.65	2.80	10-foot rolls (20 in. wide), per roll		10-foot rolls (20 in. wide), per roll	
7 x 9		1.65	2.80	7 x 9		1.65	2.80	10-foot rolls (40 in. wide), per roll		10-foot rolls (40 in. wide), per roll	
7 1/2 x 9 1/2		1.65	2.80	7 1/2 x 9 1/2		1.65	2.80	10-foot rolls (20 in. wide), per roll		10-foot rolls (20 in. wide), per roll	
8 x 10		1.65	2.80	8 x 10		1.65	2.80	10-foot rolls (40 in. wide), per roll		10-foot rolls (40 in. wide), per roll	
9 x 11		1.65	2.80	9 x 11		1.65	2.80	10-foot rolls (20 in. wide), per roll		10-foot rolls (20 in. wide), per roll	
10 x 12		1.65	2.80	10 x 12		1.65	2.80	10-foot rolls (40 in. wide), per roll		10-foot rolls (40 in. wide), per roll	
11 x 14		1.65	2.80	11 x 14		1.65	2.80	10-foot rolls (20 in. wide), per roll		10-foot rolls (20 in. wide), per roll	
12 x 15		1.65	2.80	12 x 15		1.65	2.80	10-foot rolls (40 in. wide), per roll		10-foot rolls (40 in. wide), per roll	
14 x 17		1.65	2.80	14 x 17		1.65	2.80	10-foot rolls (20 in. wide), per roll		10-foot rolls (20 in. wide), per roll	
16 x 20		1.65	2.80	16 x 20		1.65	2.80	10-foot rolls (40 in. wide), per roll		10-foot rolls (40 in. wide), per roll	
17 x 20		1.65	2.80	17 x 20		1.65	2.80	10-foot rolls (20 in. wide), per roll		10-foot rolls (20 in. wide), per roll	
18 x 22		1.65	2.80	18 x 22		1.65	2.80	10-foot rolls (40 in. wide), per roll		10-foot rolls (40 in. wide), per roll	
20 x 24		1.65	2.80	20 x 24		1.65	2.80	10-foot rolls (20 in. wide), per roll		10-foot rolls (20 in. wide), per roll	

Special cut sizes at 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 CHLORIDE.				ARTURA NON-CURLING.			
Size.		Doz. 1/2 Gross.		Regular Weight.		Extra Heavy.	
3 1/2 x 5 1/2 (Cabinets)		Gross.	\$ 1.25	3 1/2 x 5 1/2 (Cabinets)		Gross.	\$ 1.25
4 x 5		1.25	2.25	4 x 5		1.25	2.25
4 x 6		1.25	2.25	4 x 6		1.25	2.25
4 1/4 x 6 1/4		1.70	3.15	4 1/4 x 6 1/4		1.70	3.15
4 x 8		1.45	2.50	4 x 8		1.45	2.50
5 x 7		1.45	2.50	5 x 7		1.45	2.50
5 x 8		1.45	2.50	5 x 8		1.45	2.50
6 x 8		1.45	2.50	6 x 8		1.45	2.50
6 1/2 x 8 1/2		1.70	3.15	6 1/2 x 8 1/2		1.70	3.15
7 x 9		1.70	3.15	7 x 9		1.70	3.15
7 1/2 x 9 1/2		1.70	3.15	7 1/2 x 9 1/2		1.70	3.15
8 x 10		1.70	3.15	8 x 10		1.70	3.15
9 x 11		1.70	3.15	9 x 11		1.70	3.15
10 x 12		1.70	3.15	10 x 12		1.70	3.15
11 x 14		1.70	3.15	11 x 14		1.70	3.15
12 x 15		1.70	3.15	12 x 15		1.70	3.15
14 x 17		1.70	3.15	14 x 17		1.70	3.15
16 x 20		1.70	3.15	16 x 20		1.70	3.15
17 x 20		1.70	3.15	17 x 20		1.70	3.15
18 x 22		1.70	3.15	18 x 22		1.70	3.15
20 x 24		1.70	3.15	20 x 24		1.70	3.15

Special cut sizes at 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 CARBON GREEN.				ARTURA CARBON BLACK.			
Size.		Doz. 1/2 Gross.		Regular Weight.		Extra Heavy.	
3 1/2 x 5 1/2 (Cabinets)		Gross.	\$ 1.25	3 1/2 x 5 1/2 (Cabinets)		Gross.	\$ 1.25
4 x 5		1.25	2.25	4 x 5		1.25	2.25
4 x 6		1.25	2.25	4 x 6		1.25	2.25
4 1/4 x 6 1/4		1.70	3.15	4 1/4 x 6 1/4		1.70	3.15
4 x 8		1.45	2.50	4 x 8		1.45	2.50
5 x 7		1.45	2.50	5 x 7		1.45	2.50
5 x 8		1.45	2.50	5 x 8		1.45	2.50
6 x 8		1.45	2.50	6 x 8		1.45	2.50
6 1/2 x 8 1/2		1.70	3.15	6 1/2 x 8 1/2		1.70	3.15
7 x 9		1.70	3.15	7 x 9		1.70	3.15
7 1/2 x 9 1/2		1.70	3.15	7 1/2 x 9 1/2		1.70	3.15
8 x 10		1.70	3.15	8 x 10		1.70	3.15
9 x 11		1.70	3.15	9 x 11		1.70	3.15
10 x 12		1.70	3.15	10 x 12		1.70	3.15
11 x 14		1.70	3.15	11 x 14		1.70	3.15
12 x 15		1.70	3.15	12 x 15		1.70	3.15
14 x 17		1.70	3.15	14 x 17		1.70	3.15
16 x 20		1.70	3.15	16 x 20		1.70	3.15
17 x 20		1.70	3.15	17 x 20		1.70	3.15
18 x 22		1.70	3.15	18 x 22		1.70	3.15
20 x 24		1.70	3.15	20 x 24		1.70	3.15

For special cut sizes and rolls, see Notes 1 and 2.

NOTE No. 1.—Special sizes at proportionate prices on orders of a dozen or more amounting to \$1.00 list or more.

NOTE No. 2.—Any width up to 40 inches other than listed is furnished in rolls not less than 10 yards in length.

REGULAR WEIGHT. ARTURA CARBON BLACK. ROUGH MATTE AND EXTRA HEAVY.

10-foot rolls (20 in. wide), per roll. \$1.25

10-foot rolls (40 in. wide), per roll. 3.35

10-foot rolls (20 in. wide), per roll. 3.35

10-foot rolls (40 in. wide), per roll. 6.70

Standard Brands of Sensitive Papers

Size	2 1/2 x 3 1/2	2 1/2 x 4	2 1/2 x 5	2 1/2 x 6	2 1/2 x 7	2 1/2 x 8	2 1/2 x 9	2 1/2 x 10	2 1/2 x 11	2 1/2 x 12	2 1/2 x 13	2 1/2 x 14	2 1/2 x 15	2 1/2 x 16	2 1/2 x 17	2 1/2 x 18	2 1/2 x 19	2 1/2 x 20	2 1/2 x 21	2 1/2 x 22	2 1/2 x 23	2 1/2 x 24	2 1/2 x 25	2 1/2 x 26	2 1/2 x 27	2 1/2 x 28	2 1/2 x 29	2 1/2 x 30	2 1/2 x 31	2 1/2 x 32	2 1/2 x 33	2 1/2 x 34	2 1/2 x 35	2 1/2 x 36	2 1/2 x 37	2 1/2 x 38	2 1/2 x 39	2 1/2 x 40	2 1/2 x 41	2 1/2 x 42	2 1/2 x 43	2 1/2 x 44	2 1/2 x 45	2 1/2 x 46	2 1/2 x 47	2 1/2 x 48	2 1/2 x 49	2 1/2 x 50	2 1/2 x 51	2 1/2 x 52	2 1/2 x 53	2 1/2 x 54	2 1/2 x 55	2 1/2 x 56	2 1/2 x 57	2 1/2 x 58	2 1/2 x 59	2 1/2 x 60	2 1/2 x 61	2 1/2 x 62	2 1/2 x 63	2 1/2 x 64	2 1/2 x 65	2 1/2 x 66	2 1/2 x 67	2 1/2 x 68	2 1/2 x 69	2 1/2 x 70	2 1/2 x 71	2 1/2 x 72	2 1/2 x 73	2 1/2 x 74	2 1/2 x 75	2 1/2 x 76	2 1/2 x 77	2 1/2 x 78	2 1/2 x 79	2 1/2 x 80	2 1/2 x 81	2 1/2 x 82	2 1/2 x 83	2 1/2 x 84	2 1/2 x 85	2 1/2 x 86	2 1/2 x 87	2 1/2 x 88	2 1/2 x 89	2 1/2 x 90	2 1/2 x 91	2 1/2 x 92	2 1/2 x 93	2 1/2 x 94	2 1/2 x 95	2 1/2 x 96	2 1/2 x 97	2 1/2 x 98	2 1/2 x 99	2 1/2 x 100	2 1/2 x 101	2 1/2 x 102	2 1/2 x 103	2 1/2 x 104	2 1/2 x 105	2 1/2 x 106	2 1/2 x 107	2 1/2 x 108	2 1/2 x 109	2 1/2 x 110	2 1/2 x 111	2 1/2 x 112	2 1/2 x 113
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PAPERS—Sensitive

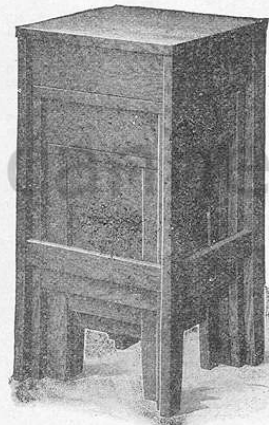
Extra Printing on Post Cards—Cards will be printed both across top and end without extra charge if order calls for 10,000 or more. A less number will be printed at the rate of \$1.50 net for the first thousand and cents for each additional thousand.

GROUPING STOOLS



Metal Grouping Stools

Eastman Four-in-One Grouper



Four-in-One Grouper, Nested

The chairs are finished in a splendid hand-rubbed dark mission finish, the wood being selected oak. On this account they can be adapted to reception room use, or to any other purpose which may suggest itself.

The nesting is exact, so that shipment is expedited, the total space occupied by the nest being only 12½x12½x24 inches.

PRICE

Four-in-One Grouper.....\$10 00

These are made of twisted steel rods, antique copper finish, oak seats. They are the most compact, durable, attractive and sensible grouping arrangement ever devised, as well as the lowest (quality considered) in price.

No. 1 is 11 inches high, No. 2, 17 inches, and No. 3, 24 inches.

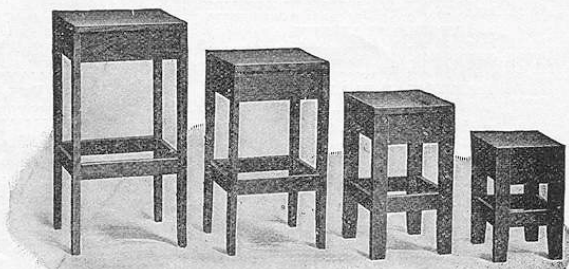
Price, for any height, each.....\$1 50

Per set of seven.....10 00

We all have experienced the difficulties in photographing groups, even small ones, and to arrange them properly and effectively has been no small task. There are a number of different sets of grouping seats or stools on the market, most of them pretty good for the purpose, but seriously in the way when not in use, and when wanted one or more is apt to have been misplaced.

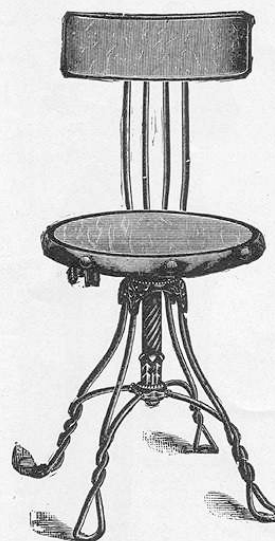
The new Eastman "Four-in-One" Groupers are not only perfect as groupers, but when not in use nest together, as shown in the illustration, thus taking up the minimum amount of space and likewise insuring the complete set being on hand when wanted.

This accessory will serve a multitude of purposes, in the studio, operating room, reception and dressing rooms. As a grouper it furnishes four stools, 12, 16, 20 and 24 inches in height, which when not needed may be nested with the largest, saving space in an economical manner.



Four-in-One Groupers, Ready for Use.

Studio Posing Chairs



THE ELITE POSING CHAIR

There is no one style of photographic posing chair which has had so steady a sale as the Elite. The seat of the Elite poser elevates and depresses by means of a screw; the back is adjustable horizontally by means of a worm arrangement.

Furnished as follows:

Antique copper finish, oak seat and back, each \$5 00

Antique copper finish, plush, \$7 00

Leather seat back, each\$6 50

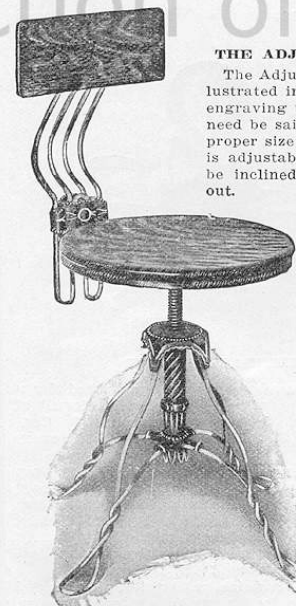
SINGLE ARM CHAIR



This chair is made of solid oak and was designed about two years ago. Since this time an immense quantity of them have been sold.

Every photographer can afford one of these chairs and a great many need it. Seat is 17½ inches square, arm 12 inches from seat. Upholstered in Spanish leatherette. Finish is dark photo brown.

Price\$8 00



THE ADJUSTABLE POSER

The Adjustable 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.

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.

Prices

Solid wood seat\$4 00
Leather seat 5 50

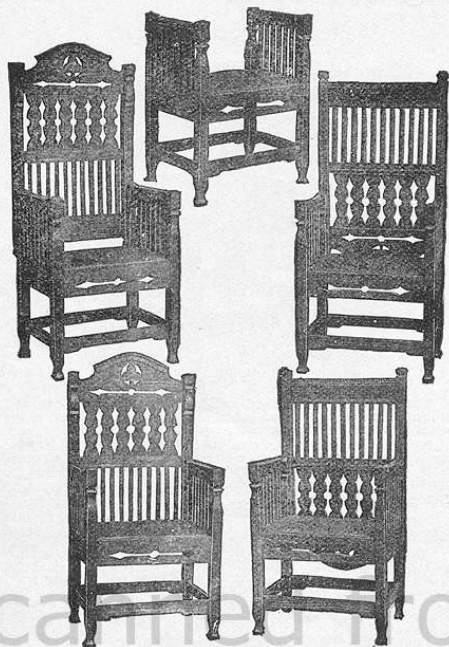


THE ALBANY METAL CHAIR

They are formed from wrought steel, twisted together by special machinery invented for the purpose. No. 1 is adapted to the more common use—house, veranda, balls or lawn.

No. 1. Plain Veneer seat, frame enameled in any color\$2 50
No. 2. Quartered Oak or Mahogany seat, frame antique copper finish..... 2 75

Studio Posing Furniture



No. 36 MISSION COMBINATION POSER

As the cut shows this chair is capable of five changes.

The back can be used either end up and is adjustable as to height. Made of solid oak, is massive and roomy, being 20 inches between arms, 17 inches deep and seat 18 inches from floor. Upholstered in brown Spanish leatherette.

Price, crated, net.....\$18 00



No. 72 CORNER CHAIR

Seat is 18x18, 18 in. high. A very ornamental chair, carved on four sides. Upholstered in best Chase leather to match dull photo brown oak finish.

Price, F. O. B., crated, net.....\$18 00

THE No. 10 BABY POSER

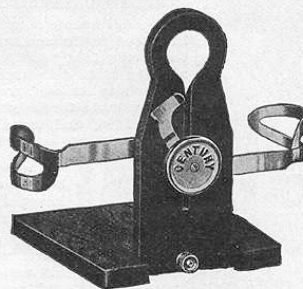
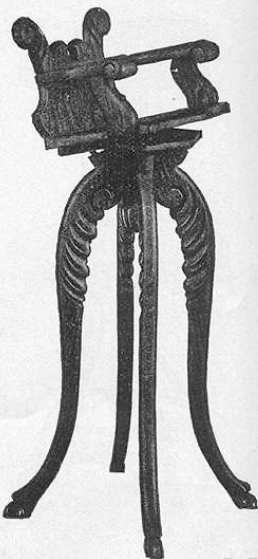
The No. 10 Baby Poser was designed by a practical photographer, who, after trying numerous devices for holding small children, pronounced this the gem of the whole collection, and in every way perfectly suited to its purpose.

The only part showing when child is in chair is the base, which is nicely carved.

It has a spring clamp in the back to hold dress, so that baby cannot fall out of the chair.

Made of oak, with golden or weathered oak finish.

Shipped K. D.
Price\$6 00



CENTURY BABY HOLDER

For some time the photographer has wished for a quick adjusting, safe and sure baby holder, devoid of complicated motions. Such an apparatus is the Century Baby Holder. One of these should be in every studio.

Its very simplicity makes it impossible to go into lengthy description. The nickel-plated arms are squeezed together until the baby's body is held firmly. One turn of the clamp wheel on the back locks the arms rigidly. The hole in the back is used to grasp the baby clothes, with the operator's hands catching them in vertical slot, an additional adjustment for safety.

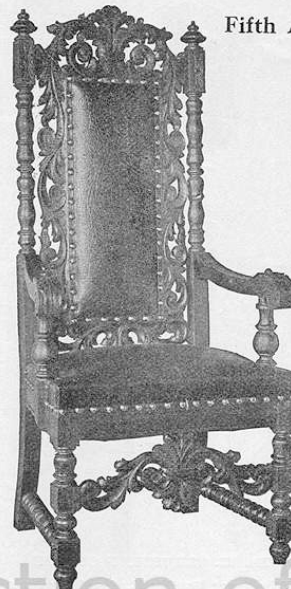
It is made in mission finish, with nickel-plated metal parts. There are no frail parts to get out of order. It is dignified and neat and a welcome labor saver in any studio.

Price

Century Baby Holder\$5 00

STUDIO FURNITURE

Fifth Avenue Posing Chair



This is a chair for the photographer who wishes the best. Made of oak, finely hand carved, and finished in a dark photographic tone. Seat and back are upholstered in genuine Spanish cowhide. The seat is broad and roomy. It will last a lifetime. Nothing approaching it has ever been offered for the money. Height, 56 inches.

Price.....\$30.00

Exeter Posing Chair



This design originated in one of the best known studios of the country. It is made of heavy oak, elegantly and elaborately carved. It is finished in rich brown tone, so there will be no objectionable high lights in the negative. The arms are short, giving ample support without forcing the sitter into an ungraceful pose. The back being low does not interfere with lines of the subject. A desirable addition to any studio.

Price\$22 00

Westminster Posing Chair

The lines are graceful and pleasing. The seat is purposely made short, causing the subject to sit upright without effort,—but being of liberal width, gives ample opportunity for draping gowns of lady patrons.

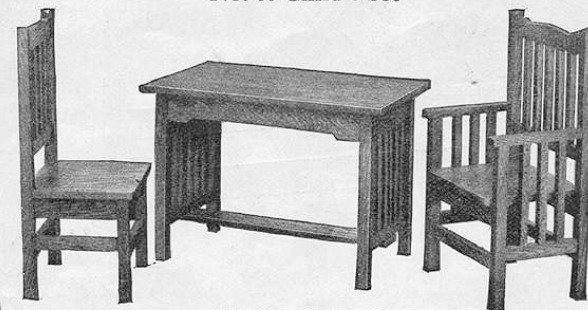
The frame is made of high-grade selected oak, very finely hand carved and finished in rich brown tone without varnish. The seat is covered with fine quality Spanish cowhide, and upholstered in the best possible manner.

In fact we cannot say too much in commendation of this beautiful, useful and well-made accessory. It must be seen to be fully appreciated. Height, 56 inches.

PRICE

Westminster Posing Chair\$38 00

No. 80 Child's Set



NO. 80 CHILD'S SET

Table is shipped K. D. Top is 15x26 and 19 in. high. Chairs are sent set up and are 26½ in. high; seats are 10½x12 in. Sold only in sets of one table and two chairs. Finish is dull photo brown.

Price F. O. B., crated, \$10.00 net

Studio Posing Furniture



No. 37 POSING CHAIR

Back 56 inches high. Removable and has two adjustments. Seat 20 inches high, 24 inches wide and 18 inches deep. This chair has adjustable arms which can be removed or placed across back, forming a bench. Made of oak nicely carved and eastered. Best posing chair on the market for the money.

Price, \$15 00 Net.



No. 67. GROUPING COUCH

The seat is 18x42, head or arm 6x18, and is finished on each side so it can be used in any position. Made of oak, finished dull photo brown and upholstered in brown Spanish Chase leather.

Price, crated, \$24 00



No. 78 POSING BENCH

Seat is 18x30; 18 in. high. Arm is 11 in. from seat. Upholstered in best grade Chase leather. Finished on both sides dull photo brown.

Price, F. O. B., crated, \$10 00



No. 60. CORNER CHAIR

Is made of oak, upholstered in Chase leather and finished dull photo brown. Seat is 18 in. square and arms are 11 in. from seat. A fine high grade chair for the best class of work.

Price, crated, \$10 00

Studio Posing Furniture



No. 17 ART TABLE. LOUIS XV STYLE

This handsome table is a hand carved design solid quartered oak, richly carved, with dull wax finish just right for photographers' work.

This table fills a want for an elegant yet medium priced table for the studio, 20x20 inch top, 32 inches high.

Price, crated, \$16 00

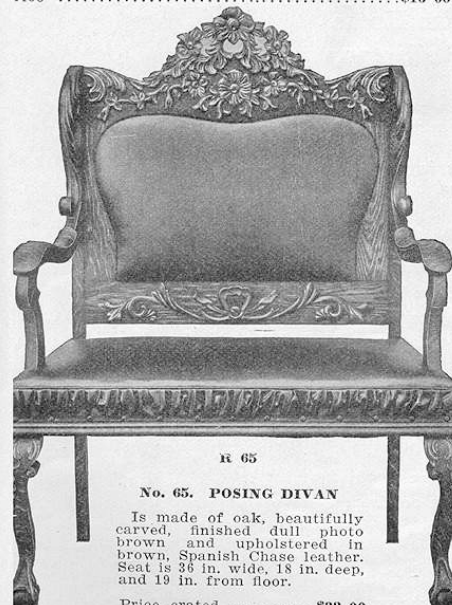


No. 14 ART CHAIR. LOUIS XV STYLE

This chair is richly carved on the solid wood by workmen who are real artists in their line, and the chair is graceful and artistic from every point of view.

Has reversible silk plush cushion, dark green, and the finish dull wax—just right for photographers' use. This is a very ornamental piece of furniture and can be used in a dozen different ways that will suggest themselves to the up-to-date photographer.

Price, crated, \$27 00



No. 65

No. 65. POSING DIVAN

Is made of oak, beautifully carved, finished dull photo brown, and upholstered in brown, Spanish Chase leather. Seat is 36 in. wide, 18 in. deep, and 19 in. from floor.

Price, crated, \$32 00



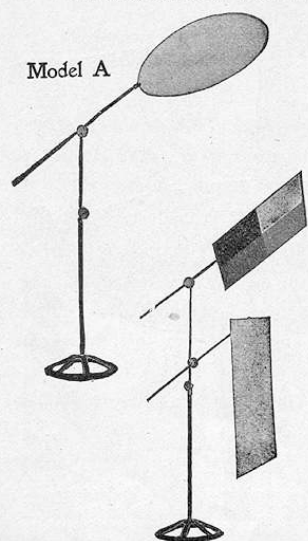
No. 19

ROMAN CHAIR

This is a hand carved chair of the latest and most approved Roman style, designed and finished especially for photographic work and very desirable for classic pictures. Solid weathered oak.

Price, only \$18 00

Head Screens



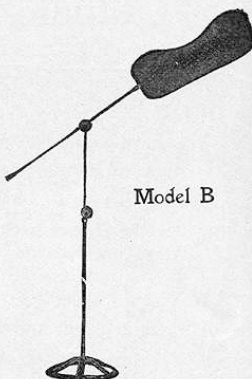
Model A

CENTURY HEAD SCREENS A and B

Century Head Screens are supplied in two models, and are the neatest and easiest to operate of any screen on the market. They can be adjusted to any height or position, and the base is sufficiently heavy to prevent the screen from tipping, and at the same time permits the Head Screen to be easily moved about. The rods are nickel plated, and are held in various positions by improved quick-acting clamps. Model A carries white screens and B is black.

Price

Century Head Screen, Model A \$5.00
Century Head Screen, Model B 5.00
Side Screens, black or white, with rods and ball joint to be used with A or B Model, each 3.00



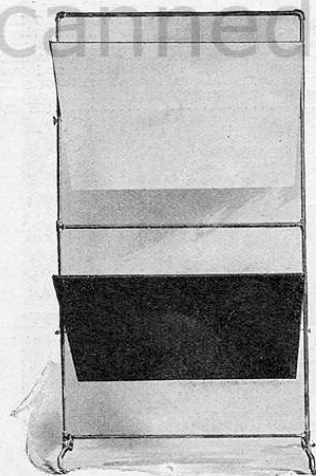
Model B

CENTURY UNIVERSAL HEAD AND SIDE SCREEN

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

Century Universal Head and Side Screen

Price, Century Universal Head and Side Screen \$8.50



EASTMAN STUDIO REFLECTOR

A useful and practical accessory for the up-to-date studio. This reflector consists of two swinging screens, each 24x26 ins., mounted one above the other in a strong iron frame. Each screen is black on one side and white on the other, and can be swung to any angle and securely locked. 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.

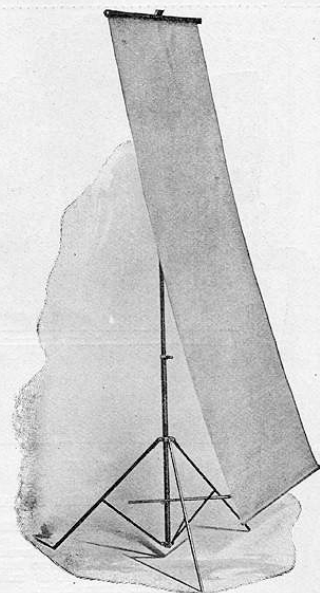
The reflector is made of white opaque Holland shade cloth, which reflects the maximum amount of light; mounted and hung on a stand similar to the Eastman Portable Background Carrier.

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



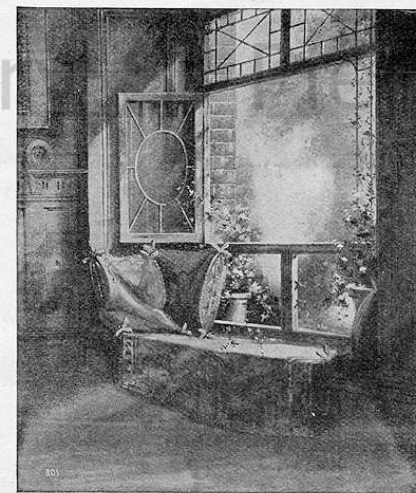
Backgrounds

We 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 light is the cause of many errors. Also state shade of ground desired, light, medium or dark tone.



No. 800.



No. 801.

Size	Price	Price with 7-ft. extension		Per Square Foot
		Water-color	Oil-color	
6x 8 feet	\$12 00	\$14 52	\$16 20	Background proper, sizes 8x8 feet or larger... \$0 20
8x 8 feet	12 80	16 16	18 40	Background proper, sizes smaller than 8x8 feet 25
8x10 feet	16 00	20 20	23 00	Water-color extensions..... 06
				Oil-color extensions..... 10
				For sailcloth add to above prices..... 10

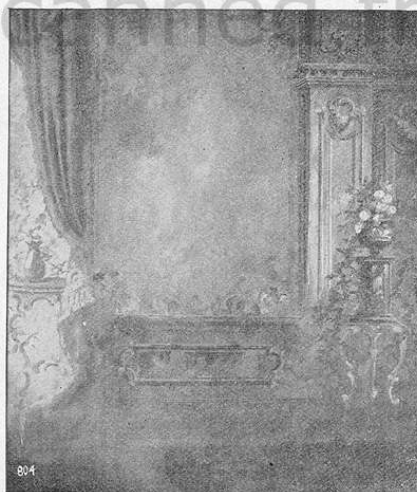
Backgrounds



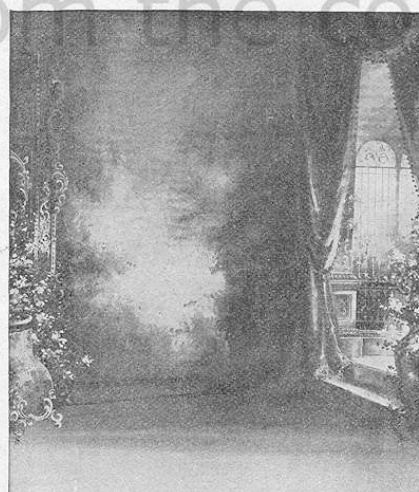
No. 802.



No. 803.



No. 804.

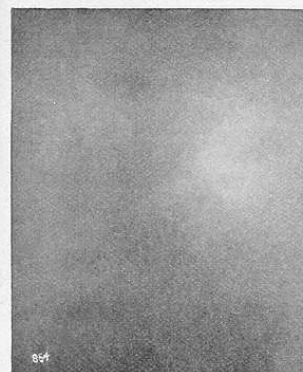


No. 805.

Size	Price	Price with 7-ft. extension		Per Square Foot
		Water-color	Oil-color	
6x 8 feet	\$ 9 00	\$11 52	\$13 20	\$0 15
8x 8 feet	9 60	12 96	15 20	18 3/4
8x10 feet	12 00	16 20	19 00	06
				Oil-color extensions..... 10
				For sailcloth add to above prices..... 10

Background proper, sizes 8x8 ft. or larger.. \$0 15
 Background proper, sizes smaller than 8x8 ft. 18 3/4
 Water-color extensions..... 06
 Oil-color extensions..... 10
 For sailcloth add to above prices..... 10

Backgrounds



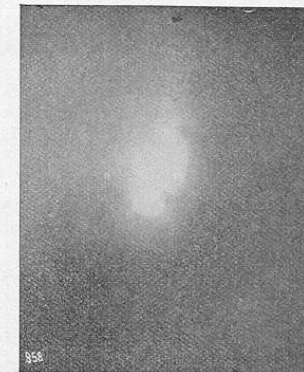
No. 854.

Size 5x6..... \$2 40



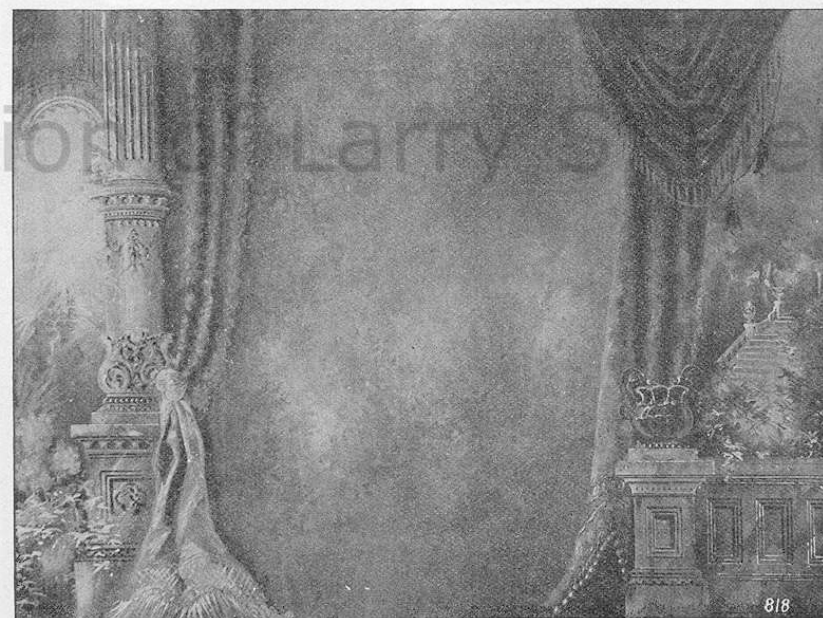
No. 855.

Size 6x8..... \$3 84



No. 858.

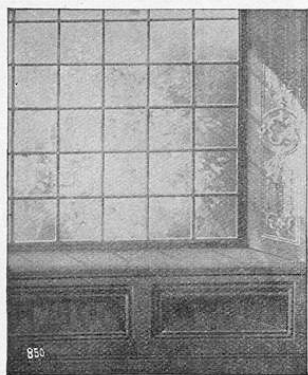
All other sizes, per square ft., \$0 08



No. 818.

Size	Price	Price with 7-ft. extension		Per Square Foot
		Water-color	Oil-color	
8x10 feet	\$ 9 60	\$13 80	\$15 20	\$0 12
9x12 feet	12 96	18 00	19 68	06
10x14 feet	16 80	22 68	24 64	08
10x16 feet	19 20	25 92	28 16	10
				Background proper..... \$0 12
				Water-color extensions 06
				Oil-color extensions..... 08
				For sailcloth add to above prices..... 10

Backgrounds



No. 850.

Size 5x6..... \$4 50



No. 851.

Size 6x8..... \$7 20



No. 852.

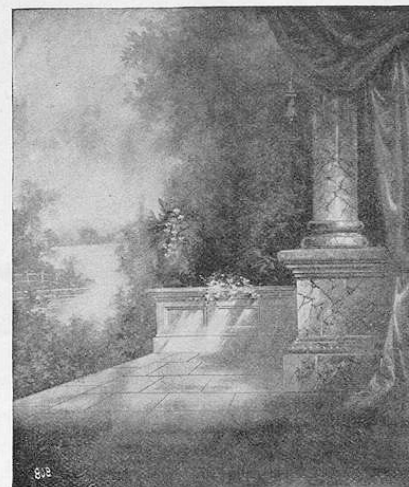
All other sizes, per square ft., \$0 15



No. 817.

Size	Price	Price with 7-ft. extension			Per Square Foot
		Water-color	Oil-color		
8x10 feet	\$ 9 60	\$13 80	\$15 20	Background proper	\$0 12
9x12 feet	12 96	18 00	19 68	Water-color extensions.....	06
10x14 feet	16 80	22 68	24 64	Oil-color extensions.....	08
10x16 feet	19 20	25 92	28 16	For sailcloth add to above prices.....	10

Backgrounds



No. 808.



No. 809.



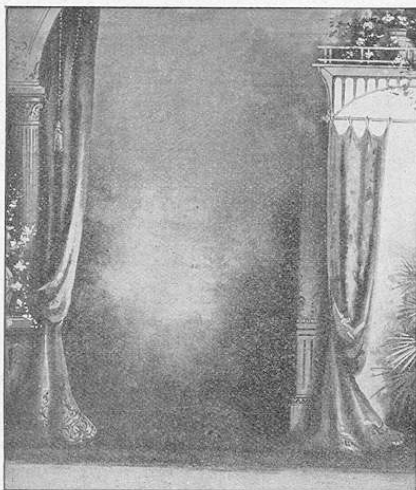
No. 810.



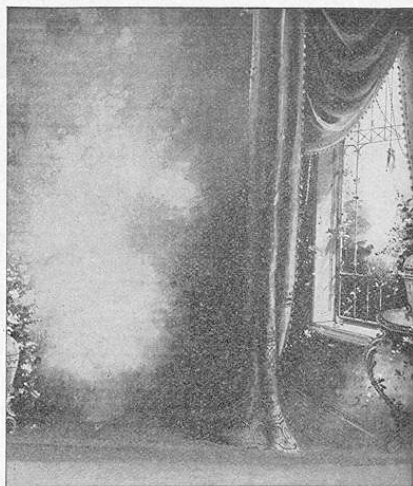
No. 811.

Size	Price	Price with 7-ft. extension			Per Square Foot
		Water-color	Oil-color		
6x 8 feet	\$ 9 00	\$11 52	\$13 20	Background proper, sizes 8x8 ft. or larger...	\$0 15
8x 8 feet	9 60	12 96	15 20	Background proper, sizes smaller than 8x8 ft.	18 3/4
8x10 feet	12 00	16 20	19 00	Water-color extensions.....	06
				Oil-color extensions.....	10
				For sailcloth add to above prices.....	10

Backgrounds



No. 806.



No. 807.



No. 816.

Background proper, per square foot.....	\$0 12
Water-color extensions, per square foot.....	06
Oil-color extensions, per square foot.....	08
For sailcloth add to above prices, per square foot.....	10

Backgrounds



No. 812.



No. 813.



No. 814.

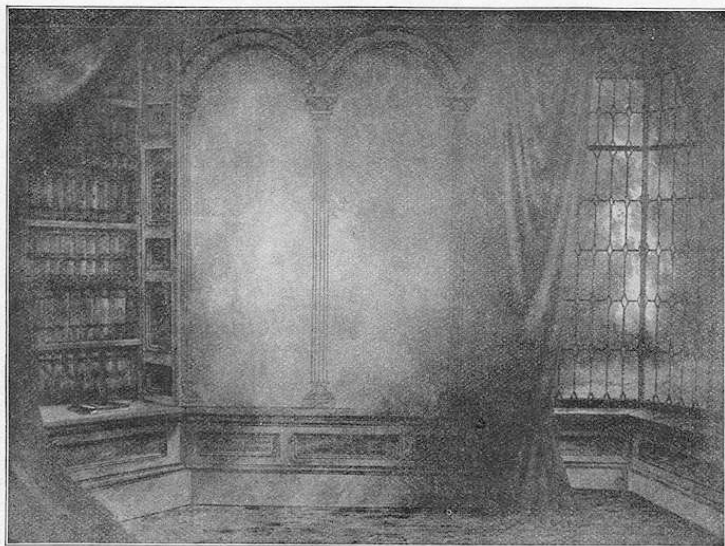


No. 815.

Size	Price	Price with 7-ft. extension		Per Square Foot
		Water-color	Oil-color	
6x 8 feet	\$ 9 00	\$11 52	\$13 20	\$0 15
8x 8 feet	9 60	12 96	15 20	18 3/4
8x10 feet	12 00	16 20	19 00	10

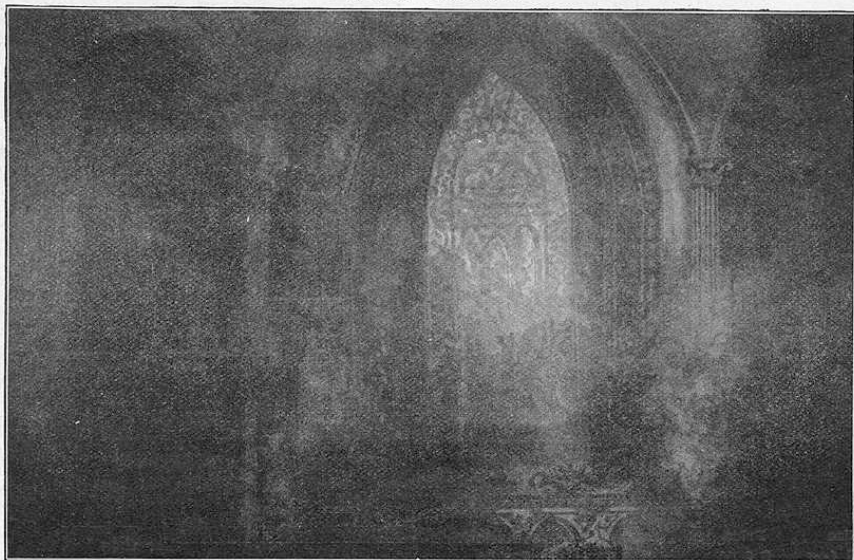
Background proper, sizes 8x8 ft. or larger.. \$0 15
 Background proper, sizes smaller than 8x8 ft. 18 3/4
 Water-color extensions..... 06
 Oil-color extensions..... 10
 For sailcloth add to above prices..... 10

Group Grounds



No. 1070S Seavy Background 8x10 feet.....\$20 00 9x12 feet, \$27 00
Other sizes per sq. foot, \$0 25 Oil Foreground Extra, \$0 10 per sq. foot.

GROUP GROUND



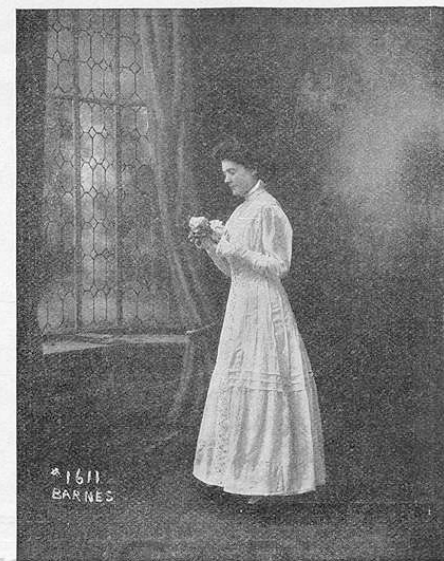
No. 1066S Seavy Background 8x10 feet.....\$16 00 9x12, \$21 60 10x14, \$28 00 10x16, \$32 00
Back Ground proper, per sq. foot, \$0 20 Oil Floor Cloth extra per sq. foot, \$0 10

Artistic Designs in Backgrounds

GIVING BEAUTIFUL PORTRAIT EFFECTS



No. 1615.



No. 1611.



No. 695.

Size	Price	With 7-ft. water-color ext.	With 7-ft. oil-color ext.
6x8 feet	\$7 20	\$8 92	\$11 40
8x8 feet	7 68	11 04	13 28
8x10 feet	9 60	13 80	16 60



No. 697.

	Per Sq. Ft.
Other sizes, 8x8 or larger.....	\$0 12
Other sizes, smaller than 8x8.....	15
Water-color extensions	08
Oil-color extensions	10
For sailcloth add to prices listed	10

Seaveys French Window Seat



A compact window and side wall of novel and artistic design for use in the studio in making "home portraits" and window effects.

The French window seat is a large, well made, well finished hardwood seat, having an arm on each side. It is fitted with a French window sash, which is fastened to the window with double reversible hinges, so that the sash will swing both in and out. The frame of the window is paneled on all sides, and has substantial feet equipped with roller casters, so it is easily moved. The side opposite the seat is paneled and finished the same as the front, so that the operator may work with it from either side. The entire French window seat is nicely finished in bog oak without any varnish, so it gives no reflections.

For
Artistic
Posing



Home
Portrait
Effects

The accessory includes a side wall background mounted on a frame, which can be attached to either side of the window.
Complete, which includes the window, side wall, background, and frame. The window is shipped crated, with the side wall rolled and the wall frame knocked down. The shipping weight is 120 pounds.
F. O. B. Chicago

Price

\$39 50

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WE ARE HEADQUARTERS

FOR

PHOTOGRAPHIC

CARD-MOUNTS, FOLDERS, ETC.



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are changing in design so frequently, that
it would be impracticable to list them herein

On request we will send you our complete
illustrated card stock catalog of latest designs