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G. GENNERT,

NEW YORK

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TAKE NO OTHER, EVEN IF RECOMMENDED TO BE JUST AS GOOD AS WALPOLE

Descriptive Catalogue

OF

PHOTOGRAPHIC

Apparatus and Supplies

THE SHERRE

Manufactured and Imported by

G. GENNERT_

24 and 26 East Thirteenth Street

NEW YORK



TO THE TRADE

I T gives us pleasure to present this revised and complete Catalogue of our goods, which will be found eminently reliable as a reference.

The well-known quality of our manufactures will, we feel assured, make our prices seem advantageous in the extreme.

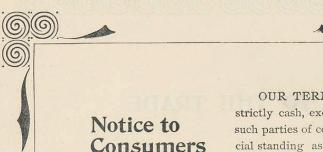
We are indebted to the trade for the hearty support extended to our apparatus department during the past year, the output of which, while continually improving in quality as well as quantity, has already spread itself over a vast field, and we feel that our earnest endeavor to excel all other makers of apparatus is heartily appreciated.

Our new and commodious store gives us facilities which are second to none and we can assure the trade that no pains on our part will be spared to make our stock the most complete, and thus assure the prompt and careful execution of the largest commissions.

We enter upon the coming business year with two new agencies, and solicit from the trade the same kind consideration for these goods as would be shown our own manufactures.

The irreproachable quality of the Chemicals manufactured by the Walpole Dye and Chemical Company, and the world-wide reputation of the Optical Works of Messrs. Ross & Co., London, are a guarantee that we are justified in soliciting your hearty co-operation for their manufactures.

New York, Jan. 1st, 1895.



OUR TERMS are strictly cash, except to such parties of commercial standing as are desirous of opening permanent business rela-

tions with our house, in which case REFERENCES must accompany the first inquiry. All orders sent us for C. O. D. shipment must be accompanied by a sufficient advance payment to cover express charges both ways as a guarantee of good faith. Our prices are the lowest consistent with the quality of the goods, and are subject to change without previous notice. Many of our prices will be found to have been greatly reduced in pursuance of our policy to study the best interest of the consumer.

OUR GOODS are kept in stock by all dealers in photographic materials, but in case your local dealer

does not keep our goods we will forward same to any address in the United States, east of the Mississippi River, charges prepaid, on receipt of the list price.

A Cash Discount of 5 per cent. on list price will be allowed when cash accompanies





ROSS & CO. have adopted the Uniform System Aper-

tures recommended by the Photographic Society of Great Britain, viz:— . . .

U. S. Nos	1	2	4	- 8	16	* 32	64	128	256
Ratio of Stops	f	f	f	f	f	f	f	f	f
	4	5.657	8	11.3	16	22.6	32	45.2	64

THEIR New series of lenses will have their diaphragms marked with the above ratios, the exposure required with each Stop being exactly double that with the next larger size.

Ordinary Diaphragms, or ROSS' Improved Iris Diaphragm, supplied as desired, but all out-door Lenses are kept in stock with wheel or Iris only.

All ROSS' LENSES are constructed to give brilliant images, with the sharpest possible definition and flatness of field. They are now fitted with flanges corresponding to the Photographic Society's Standard Sizes, the diameters of the top of screw-thread on the Lenses being as follows:

No.	1 (Sym't'cal Size) 1.52	No.	6	No. 11 in:	s.
	2 134 ins.		7 3 "		
	3 2 "		8 3¼ "	" 13	
**	4		9 3 1/2 "	" 14 434 "	
	5 2 1/2 "			" 15 5 "	

IRIS DIAPHRAGMS

ROSS & CO. beg to announce that they have devised special machinery at their New Factory, Clapham Common, for the production of thor oughly reliable IRIS DIAPHRAGMS, without increasing the outside dimensions of the lens mounts. These IRIS DIAPHRAGMS possess the following advantages:

The central opening is practically circular at all apertures.

The movement of the leaves of the Iris is arrested by a distinct stop or catch at each aperture.

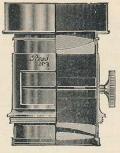
Every aperture is clearly indicated on a corresponding scale, engraved with its relation to focus.

The whole is contained within the lens setting, avoiding extra bulk or projections, the lens thus packing into the same space as one furnished with Waterhouse stops.

The Iris Diaphragm can be adapted to Ross' Lenses of the Symmetrical and Rapid Symmetrical Series not already provided with it.

ALUMINIUM SETTINGS

ROSS & CO. are now prepared to supply Aluminium Mounts of superior quality to any of their Lenses as may be required.



Ross' Improved Portrait Lenses

ROSS' IMPROVED PORTRAIT LENSES.

MENNENNENNEN

THE RESIDENT

THESE LENSES are quicker than lightning. This is the point of prime importance in a Portrait Lens.

There has existed the impression for a long time among Photographers that "diffusion of focus" was an absolute necessity to make a perfect Portrait Lens. The results obtained with the Ross Improved Portrait Lenses are vastly superior to those of any diffusion of focus lens, and entirely disprove this theory.

With the Ross Improved Portrait Lens enlargements from small negatives can be made which compare favorably with the original! This is a severe test of their defining power!

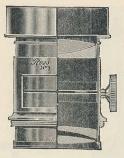
These Lenses are constructed on the Petzval Formula. They have extra large glasses and very short focus, in consequence of which they collect more light, and are quicker than any other portrait lens in the market. The results produced are remarkable for their absolute sharpness, great brilliancy and modelling capacity.



REVISED PRICE LIST OF ROSS' IMPROVED PORTRAIT LENSES.

No.	Sz. Pl'te	Equiv. Focus.	Price
3	5x7	10 inches.	\$110
-3a	61/2 x81/2	12 inches.	172
4	8x10	15 inches.	238
5	12x16	20 inches.	265
6	16x18	24 inches.	330

These lenses are admirably adapted for vignettes, half lengths, and sitting figures, but for full lengths the Cabinet and Carte series are preferable, having a flatter field.



Ross' Rapid
Cabinet Lenses

ROSS' RAPID CABINET LENSES.

-

Quick as a Wink and

Full of Sparkling Brilliancy

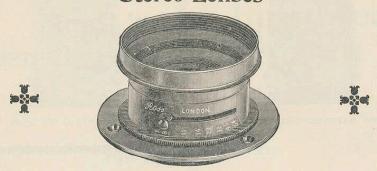
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NOS. 1 and 2 of this series fill a want always felt in studios of limited length, namely, making perfect cabinet work in a space of twenty feet or less in length. For such cases Nos. 1 and 2 are the most suitable lenses known. In all cases where the studio exceeds twenty feet, however, it is advisable to use a No. 3 lens in view of the pleasing pictures and correct perspective obtained. It is recommended that a diaphragm be used, and care be taken that the camera be placed at its proper elevation, as good portraiture depends largely on this point. These Lenses have all the sharpness and good qualities of the Portrait Series. Having a flatter field, however, they give better marginal definition and are for this reason to be preferred whenever full-lengths are to be taken.

REDUCED PRICE LIST OF ROSS' CABINET LENSES.

No.	Focus.	Price.
ı	6 inches	\$ 80
2	8 inches	110
3	To inches	122

NEW SERIES Ross' Hand Camera Lenses AND Stereo Lenses



Working at F/8 and 51

TO BE HAD IN ACCURATELY MATCHED PAIRS FOR STEREO WORK.

N consequence of the ever-increasing popularity of Hand Cameras, a demand has arisen for a superior class of Rapid lens of short focus at a moderate cost. Especially to meet this demand and to encourage amateurs to have their Hand Cameras fitted with a high-class Lens instead of using the cheap Rapid Rectilinear Lenses of moderate power fitted to high-grade apparatus by manufacturers to lessen the cost, this lens has been introduced.

These lenses cover the plate with full aperture, the f/8 series embracing an angle of about 60 degrees; they are guaranteed absolutely free from distortion and flare, combining great depth of focus with flatness of field.

Prices in Lacquered Brass Settings

	Series F-8, with Whe	Series F-8, with Wheel or Iris Stops.					
Focus.	Plate Covered.	Price.	Price.				
3 inches	2½x2 inches	\$17.00	\$4.00				
4½ inches	31/4 x31/4 inches	20.00	4.00				
5 inches	41/4 x 31/4 inches	23.00	4.00				
5½ inches	5 x4 inches	27.00	4.00				
6 inches	5 x4 inches	27.00	4.00				
8 inches	7 x5 inches	34.00	5.00				
	Series F-5,657, W	heel or Iris.					
4½ inches	3¼x4¼ inches	\$27.00	\$5.00				
6 inches	4¼x3¼ inches	34.00	5.00				
9 inches	7 x5 inches	50.00	5.50				

By a special arrangement with the Prosch Manufacturing Company, parties purchasing these Lenses of us can have them fitted with the Prosch Shutters at the following reduced rates:

F 8 Series, \$11.25; F 5 Series, 3 inch, \$11.25; 4 inch, \$11.75; 6 inch, \$12.50; 9 inch, \$14.00.

For Thornton-Pickard Shutters see separate list.





Ross' Single Landscape Lens F/16

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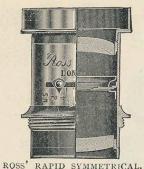
THIS Series is introduced purely for landscape work. The lenses belonging to it are constructed from the new Jena Glass, and are composed of 3 single lenses cemented together to form one combination, with only two reflecting surfaces. They work at f/16 with a very flat field, give the most brilliant pictures and work with a wide angle of view.

To a slight degree these lenses show curvature of the marginal lines—as do all single lenses—and for this reason they are not suitable for architectural work.

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Revised Price List of Ross' Single Wide Angle Lenses

No.	Plate.	Diameter of Lens.	Eq. Focus.	Rotary D.	Aluminium.
1	4 X 5	1½ inches	5 inches	\$20.00	\$28.00
2	5 X 7	134 inches	6½ inches	24.00	32.00
3	6½ x 8½	2 inches	8 inches	27.00	37.00
4	8 x 10	2¼ inches	10 inches	35.00	47.00
5	IO X 12	2½ inches	12 inches	42.00	60.00
6	12 X 16	234 inches	15 inches	53.00	80.00
7	16 X 18	3 inches	18 inches	63.00	95.00







ROSS' RAPID SYMMETRICAL LENS____

New Formulæ F/8

For Groups, Views, Interiors and Copying

THIS Lens is the ideal of the amateur and professional photographer, being the most perfect Rapid Rectilinear combination extant for general purposes. Its power is greater than any Rapid Rectilinear combination and its varied capabilities make it the most useful lens to be had where the purchaser can afford only one instrument.

It is a superb Lens for general out-door Photography and is at the same time a perfect group Lens, making portraits in the studio as well. The use of a special optical glass and improved formula have made the optical properties of this Lens of inestimable value.

With smaller stops these lenses cut the next larger plate.

REVISED AND REDUCED PRICES AND SIZES OF THE RAPID SYMMETRICAL LENS.

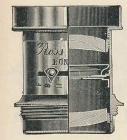
Flange No.	Size of Size of		Diameter	Equiv.	Brass Mount	With Iris Diaphragm.		
ratingo rvo.	View.		of Lens.		Center Stop.	Brass.	Aluminium.	
I	31/4×41/4	Stereo.	3/4 inch	4½ inch	\$23.50	\$25.00	\$30.00	
I	4 X5	31/4 X41/4	r inch	6 inch	25.00	26.50	32.00	
I		4 X5	11 inch	71/2 inch	31,50	33,00	40.00	
2	5 x8	5 ×7	13% inch	9 inch	35.00	38.00	45.00	
3		5 x8	11/2 inch	101/2 inch	40,00	43.00	50.00	
4		61/2 x81/2	134 inch	12 inch	46,00	50.00	60,00	
5		7 x9	17/8 inch	14 inch	53.00	56.00	66.00	
6	10 X12	8 x10	2 inch	16 inch	64.00	70.00	82.50	
7	II XI4	10 X11	21/2 inch	18 inch	71.00	76.00	92.50	
8		11 X14	21/2 inch	20 inch	89.00	96.00	112.50	
I	16 X18	12 XI6	3 inch	24 inch	116,00	122.00	145.00	
2		16 x18	3¾ inch	30 inch	155.00	158.00	192.00	
5		18 x22	41/4 inch	34 inch	190,00	198.00	230.00	

NOS. I AND 2 CAN BE HAD ACCURATELY MATCHED FOR STEREO WORK.

By special arrangement with the Prosch Manufacturing Company, parties purchasing above Lenses of us can have them fitted with Prosch Shutters at the following reduced rates: Nos. 1, 2 and 3, \$11.25; 4, \$12.25; 5, \$12.50; 6, \$14.00; 7, \$14.50; 8, \$15.25; 9, \$16.75; 10, \$18.00; 11, \$19.75; 12, \$23.50; 13, \$31.50; 14, \$36.00.

For Thornton-Pickard Shutters see separate list.

Ross' Universal Symmetrical Lens



FOR LANDSCAPES PORTRAITS, GROUPS AND INSTANTANEOUS WORK

New Series Extra Rapid



Working at F/5.657

THIS Lens works with double the rapidity of the Rapid Symmetrical Series. It is the result of the most exhaustive mathematical calculations, embodying all the important advantages obtainable from the Jena glass, used in its construction. These lenses are absolutely aplanatic and give most brilliant results even when used with full aperture. They are especially to be recommended for studio use, and when stopped down to the same ratio as the Rapid Symmetricals, will be found equally adapted to out-door work, copying and enlarging. Their extreme rapidity renders them invaluable for obtaining fully exposed instantaneous pictures with the most rapid shutters. The smaller sizes will be found the ideal lens for Hand Cameras.

REVISED PRICE LIST OF ROSS' UNIVERSAL SYMMETRICAL LENSES.

Flange			Diameter Equiv.		With Cen-	With Iris Diaphragm.		
No.	Group.	Med. Stop.	of Lens.	Focus.	tral Stops.	Brass.	Alumin'm	
2	31/4×41/4	4 X 5	1 3 inch	6 inch	\$ 40.00	\$ 40,00	\$ 47.00	
3	4 X5	5 X 7	1½ inch	7½ inch	46.00	50,00	60.00	
4	5 x6	5 X 8	134 inch	9 inch	53.00	56,00	66,00	
5	5 x8	6½ x 8½	2 inch	10½ inch	59.00	63,00	76.00	
4 5 6 8	61/2 X81/2	7 X 9	21/4 inch	12 inch	73.00	79,00	93.00	
8	7 X9	8 X10	26 inch	14 inch	86.00	92,00	112,50	
9	8 XIO	10 X12	2 9 inch	16 inch	105.00	112,50	140,00	
II	10 X12	11 X14	3 inch	18 inch	120,00	125,00	165,00	
14	11 X14	12 X16	434 inch	20 inch	153,00	160,00	210,00	
16	12 X16	16 X18	44 inch	24 inch	198,00	210,00	275.00	
	16 X18	18 X22	5½ inch	30 inch	330,00	330.00	430,00	

By special arrangement with the Prosch Manufacturing Company, parties purchasing above lenses of us can have them fitted with Prosch Shutters at the following reduced rates: No. 1, \$11.75; 2, \$12.50; 3, \$14.00; 4, \$15.25; 5, \$16.00; 6, \$18.00; 7, \$19.75; 8, \$23.50; 9, \$27.00; 10, \$27.00; 11, \$36.00; 12, \$50.00.

For Thornton-Pickard Shutters see separate list.







Ross' Portable Symmetrical Lens, F/16

For Architecture and Copying

SINCE their introduction these Lenses have made for themselves a name that is the envy of all other makers. No lens is one-half so suitable for reproductions and architecture or any work where mathematical correctness is desired.

Extraordinary definition and flatness of field, as well as the exceedingly portable form in which they are made, especially recommends them for extremely fine landscape work. The use of the new Jena Glass has also been of especial advantage in this lens, still further increasing its brilliancy and depth of focus.

REVISED PRICES OF ROSS' PORTABLE SYMMETRICAL LENS.

	Size Plate	Size Plate Size Plate		Equiv.	With Iris	With Iris or Cent. D.	
No.	Full Open.	Med. Stop	of Lens	Focus	Brass.	Alumin'm	Flange No.
*1	3 X3	31/4×41/4	5 inch	3 inch	\$20.00	\$25.00	T
*2	31/4×41/4	4 X5	11 inch	4 inch	20.00	25.00	I
*3	4 X5	5 ×7	inch	5 inch	21.50	26.50	1
*4	5 x7	5 x8	7 inch	6 inch	23.50	30.00	I
5	5 x8	6½ x8½	3 inch	7 inch	30.00	36.50	I
6	61/2 x 81/2	7 ×9	onch	8 inch	36.50	43.00	1
7	7 x9	8 X10	1 inch	9 inch		50.00	I
8	8 x10	10 X12	11/8 inch	10 inch		57.00	1
9	10 X12	11 X14		12 inch		65.00	1
IO	11 X14	12 X16		15 inch		71.00	I
II	12 X16	16 X18		18 inch		87.00	4
12	16 X18	20 X24	134 inch	21 inch	93.00	105.00	4

By special arrangement with the Prosch Manufacturing Company, parties purchasing above lenses of us can have same fitted with Prosch Shutters at following reduced prices: Nos. 1 to 9, \$11.50; No. 10 \$12.50; No. 11, \$12.50; No. 12, \$14.00.

Nos. 1 to 8 have Rotary Diaphragm. Nos. 9 to 12 Waterhouse Diaphragm can be furnished.

*Can be furnished matched for stereo work.





Working at F/16

For Landscapes, Architecture, Copying, Etc.

THE patent Concentric Lenses are the most perfect photographic objectives ever introduced, being absolutely free from distortion, astigmatism, flare and other imperfections so commonly found in ordinary Rapid Rectilinear Lenses.

The new Patent Concentric Lenses, like the Anastigmat Lenses of Zeiss & Goerz give a uniform perfect definition, with uniform illumination over an absolutely flat field of a circle of about 75 deg., the extreme oblique rays coming to focus with the same remarkable sharpness as the central pencils; and, therefore, the Concentric defines perfectly with its full aperture, and, like the Anastigmat, does not require the use of stops to obtain marginal definition as in Rapid Rectilinear Lenses, the stops being only used to regulate the time of exposure and depth of focus. When the aperture is increased to f/16 a very pleasing soft diffused effect is obtained; but for sharp definition, especially in copying, a larger stop than f/22 is not recommended.

These lenses cover plates a size larger when stopped down.

REVISED PRICES AND SIZES OF ROSS' NEW CONCENTRIC LENS.

No.	Size Plate	Circle of Light About 80 Diam.	Eq. Focus	Price Brass Mounted Rotary or Iris Diaphragms	Aluminium Setting.	U. S. Syst Flange No.
I	3 × 3	5 inches	3 inches	\$21.50	\$26.50	ī
2	31/4 × 41/4	6.7 inches	4 inches	23.00	28.00	I
3	4 X 5	8.4 inches	5 inches	30.00	35.00	1
4	5 x 7	10.8 inches	6 inches	36.50	41.00	I
5	5 x 8	11.8 inches	7 inches	43.00	48.00	2
6	6½x 8½	13.4 inches	8 inches	50.00	56.00	3
7	7 x 9	15 inches	9 inches	57.00	63.00	3
8	8 x10	16.8 inches	10 inches	63.00	71.00	4
9	10 X12	20 inches	12 inches	76.00	85.00	4
10	12 X16	25 inches	15 inches	93.00	106.00	6
II	16 x18	30 inches	18 inches	112.00	132.00	8

By special arrangement with the Prosch Manufacturing Company, parties purchasing above lenses of us can have them fitted with "Triplex" Shutters at the following reduced rates: Nos. 1 to 9 inc., \$11.50; No. 10, \$12.50; No. 11, \$12.50. If made of Aluminium, one-third additional.

For prices on Thornton-Pickard Shutters see separate list.

Ross' Wide Angle Symmetrical Lens





WORKING AT F/16

O not confound this lens with the cheap, common W. A. Lenses sold in this country, the majority of which are made, with the aid of machinery, by the hundred. The Ross W. A. Symmetrical Lens is entirely free from distortion and flare, and gives absolutely sharp definition. They are constructed for an angle of from 90 deg. upward to 115 deg., and give a wider angle combined with equal marginal definition than any other W. A. or Extreme Angle Lens. For street men and architectural photographers there is no lens which can be so strongly recommended, as it is especially constructed for use in confined situations.

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Revised Prices of Ross' Wide Angle Symmetrical Lens

No.	Size Plate.	Diameter of Lens.	Equivalent Focus.	Rotary Stops Brass Set- ting.	Rotary Stops Aluminium Setting.
I	4 ×5	inch 6	3 inch	\$20.00	\$25.00
2	5 x7	nch inch	4 inch	22.50	26.50
3	61x81	r inch	5 inch	25.00	30.00
1	8 x10	1¼ inch	6 inch	30.00	37.00
	10 X12	1½ inch	7 inch	40.00	47.00
	11 X13	134 inch	8 inch	46.50	54.00
	12 XI5	2 inch	9 inch	60.00	73.00
	16 x18	21/4 inch	12 inch	85.00	105.00
)	18 X22	3 inch	14 inch	110.00	145.00
	22 X25	3½ inch	16 inch	160.00	195.00

By special arrangement with the Prosch Manufacturing Company, parties purchasing above lenses from us can have same fitted with "Triplex" Shutters at the following reduced rates: Nos. 1 to 8 inc., \$11.50; No. 9, \$11.75; No. 10, \$12.25.

Iris Diaphragm cannot be supplied with these lenses, as the extreme angle does not allow of enough room between lenses.

Nos. 12 and 3 can be had accurately matched for stereo work.

For Thornton-Pickard Shutters see separate list.

ANASTIGMATS

MESSRS. ROSS & CO. have made arrangements with Carl Zeiss & Co., of Jena, whereby they are supplied with the exact calculations and all the information relating to the new optical principle involved in the construction of the anastigmats.

It is to be supposed that with the great facilities, and the experience of a century of lens making, the

Ross' Zeiss Anastigmats



ARE SUPERIOR TO THOSE OF

Zeiss or any Licensee

Anastigmat Lenses are chromatically corrected for all portions of the field, the photographic and visual image are exactly coincident and of equal magnitude. The lenses are spherically corrected for the largest aperture, and there is no variation of the focus for the different diaphragms, every lens covers the full plate sharp to the edges with the largest aperture. The evil effects arising from reflections have been entirely compensated in the calculation of these lenses, and as a result the brilliancy of the image is of the highest order and fully equal to that for which single lenses are so celebrated.

Owing to the great translucency of the silicate glass used in these lenses they are very rapid in proportion to their effective aperture, and thus satisfy one of the greatest wishes of photographers, viz.: combination of extreme rapidity with unusual depth of focus.

Ross' Zeiss Anastigmat SERIES II, F/6, 3-10

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DOUBLET OF FIVE LENSES

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HIGHLY recommended for general out-door work requiring instantaneous exposure. The image is free from distortion and the field measures 80 to 85 deg. This series is distinguished by practically perfect anastigmatic flatness of field, and its great rapidity. Its speed is such that it will answer all requirements, even those of the most rapid exposures.

The smaller number of this series will probably be the Amateurs, Universal Lens par excellence, while the larger numbers will find a favored place in the studio for portraits and groups.

REVISED PRICES.

No.	Equivalent focus Inches.	Largest ef- fective diam of Lens. Inches.	Size of Plate covered at f-q. Inches.	Brass Mounts with Iris Diaphragms.	Alum. Mounts with Iris Diaphragms.
1	33/8	5/6	2½x 3¼	\$28.00	\$31.00
2	33/8 41/4	5/8 3/4 1	31/4 x 4	31.00	34.00
3	5 5/8	ı	4 x 5	38.00	41.00
4	5 % 6 7/8 8 1/2	1 1/4	41/x 61/2	47.00	51.00
5	81/2	I 1/2	51/4 x 71/4	60.00	64.00
6	10	1 3/4	51/4 x 81/2	73.00	78.00
7	12	2	6½ x 8½	101.00	106.00
8	141/2	2 1/2	8 x 10	140.00	146.00
9	171/4	2 ½ 2 ½ 2 ½	IO X 12	179.00	185.00
0	201/2	33/8	11 X 14	224.00	232.00
I	23 5/8	334	12 X 15	279.00	288.00

Kept in stock with Iris Diaphragm only.

Cost of pairing for stereo work, \$3.00.

By special arrangement with the Prosch Manufacturing Company, parties purchasing above lenses of us can have same fitted with Prosch Shutters at the following reduced rates: Nos. 1 and 2, \$11.25; No. 3, \$11.75; No. 4, \$12.50; No. 5, \$14.00; No. 6, \$15.25; No. 7, \$16.00; No. 8, \$19.75; No. 9, \$23.50; No. 10, \$27.00; No. 11, \$31.50.





(Cut full size No. 2.)

Zeiss=Anastigmat, 1:8. Series 11a

For Portraits, Groups, Instantaneous

Outdoor Work and Copying

THE Lenses of this new series are composed of five lenses and have an angle of 80 deg., and being of relatively slower speed it has been possible to compute them for an absolutely flat image, free from all astigmatism and extremely sharp definition. While the lenses of IIIa Series have up to the present been considered the most desirable outdoor lenses, the lenses of this series will undoubtedly in most cases be preferred, since they retain all the desirable qualities, except a slightly reduced angle, with greater speed. In fact, the speed will be found ample for all ordinary instantaneous exposures, give an unusual evenness of illumination, flatness and depth. In the studio they are well adapted for large heads, figures and groups.

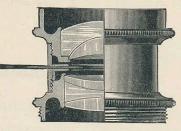
These lenses are also particularly adapted to copying and half-tone work, giving minutest detail with extreme flatness to the edges.

They are Supplied with our Improved Iris Diaphragm

No.	Size of Plate covered with	Diagonal of Largest Plate covered with	Largest effective diam. of Lens.	Equivalent Focus.	Brass	Aluminium inting	
- Simple	Stop f. 12.5.	Small Stop 72°	or Lens.		Price. Price. \$ 30.00 \$ 33.00 33.00 47.00		
	4 x 5 in.	65 in.	5 in.	43 in.	\$ 30.00	\$ 33.00	
	41x 61 in.	81 in.	5 in. 3 in.	53 in.	33.00		
	5 x 8 in.	101 in.	I in.	61 in.	43.00	47.00	
	6½x 8½ in.	12% in.	13 in.	8 in.	54.00	58.00	
	8 x10 in.	143 in.	17 in.	95 in.	64.00	68.00	
	10 X12 in.	173 in.	15 in.	115 in.	86.00	91.00	
	11 x14 in.	211 in.	2 in.	133 in.	126.00	131.00	
	14 x17 in.	261 in.	23 in.	17 in.	161.00	168.00	

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

Ross-Zeiss-Anastigmat, Series III



F./7 1=5

Instantaneous lens for outdoor work of all kinds, and for copying groups and large heads in the studio.

THIS Anastigmat consists of an unsymmetrical combination of a double front lens and a triple back lens. The combinations being brought close together are possessed of great illuminating powers. The angular aperture is from 85 to 90 deg., thus giving these lenses the capabilities of Wide Angle Lenses. They may also be advantageously used for large reproductions.

No.	Equivalent Focus. inch.	Free diameter of largest lens. inch.	Size of plate covered with stop f/12 5. inch.	Diameter of image circle at 80°. inch.	Revised Price with Iris Diaphragms.	Price with Aluminium Mounts and Iris Diaphragms
1	334 434 5 13-16 7 11-16 85% 97% 123% 173% 23	5% 3/4 1 1/4 13/6 15/8 2 23/4 3/4	3½ X 4 4 X 5 4¼ X 6½ 5⅓ X 7 1-16 5⅓ X 8⅓ 6½ X 8⅓ 8 X 10 10 X 12 12 X 15¾	6.5-16 778 976 13 15 161/2 2078 2078 3858	\$23.00 26.00 30.00 39.00 49.00 59.00 78.00 126.00 176.00	\$ 25.00 30.00 33.00 33.00 52.00 64.00 83.00 130.00 184.00

Ross=Zeiss, Series IIIa. F/9

FOR GENERAL OUTDOOR WORK

THESE Lenses are perfectly compensated for Astigmatism and yield a perfectly flat field. They are characterized by unusual sharp definition. They embrace an angle of 97 deg. The smaller sizes are well suited for hand cameras and are supplied with wheel stops only; the larger with Iris only.

No.	Equivalent focus. inches.	Largest effective diam. of lens inches.	Size of Plate covered at fi2.5—fi8. inches.	Brass Mounts with Iris Diaphragms.	Aluminium Mounts with Iris Diaphragms.
1	4 1/8 6 6 7/8 7 1/8 9 1/4 10 1/8 10 1/8 20 1/4 24 27 1/8 32 1/4	5/8 3/4 1 1/4 1/4 1/4 2/4 2/4 2/4 3/4 3/4	4 X 5 4/8 x 6/2 5/4 x 7/4 5/4 x 8/2 6/4 x 8/2 6/4 x 9/8 8/8 x10/8 10 X12 11 X14 12 X16 14 X18 16 X20		ps. 33.00 36.00 46.00 56.00 70.00 103.00 137.00 160.00 210.00 268.00

Prosch Manufacturing Co., enabled: Nos. 1, 2, 3, \$11.25; No. 4, \$11.75; No. 5, \$12.25; No. 6, \$13.50; No. 7, \$14.00; No. 8, \$16.25; No. 9, \$18.00; No. 10. \$23.00; No. 11, \$24.50; No. 12, \$27.00.

Ross Zeiss





Anastigmat

SERIES IV, F/12 1-2.

wide angle lens for Landscape Work, Interiors and Copying

THE Lenses of this series form two unsymmetrical combinations, composed of two cemented lenses placed close together.

The field of the smaller lenses, including No. 6, measures an angle of 100 deg., while the larger ones cover only about 85 deg.

The smaller ones working at F 10, the larger at F 12; the largest stop has an aperture of F 12.5.

This series may therefore be used for outdoor work and will be found very valuable in a large variety of work.

No.	Equivalent Focus. inch.	of largest with stops aircle of the with Iris		Revised Price with Iris Diaphragms.	Price with Aluminium Mounts, Iris Diaphragms	
1	27	1/4	31/8 ×4	51/2	\$17.00	\$
2	2 7 3 7/8	3/8	4 x 5	5½ 8¾	17.00	
3	43/4	3/8 3/8 1/2 5/8 3/4	43/4 x 61/2	105/8	20.00	
4	6 1 7 1 6 7 1 6	5/8	51/8X 81/4	133/8	23.00	
5	716	3/4	8 xio	171/4	30.00	33.00
6	101/4	1	io x12 with stop f36	22 7/8 at 85°	44.00	47.00
7	151/4	1 5	12 X16	28	67.00	70.00
8	233/4	3	16 X20	43 1/4	117.00	122.00
9	353/4		24 X27	641/4	263.00	270.00
10	481/4	37/8	311/2×351/2	86	588.00	596.00

Nos. 1 to 4, Wheel Diaphragm only.

Nos. 4 to 10, Iris only.

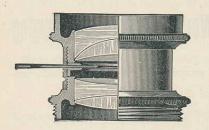
Cost of preparing for stereo work, \$3.00.

Ross-Zeiss

ANASTIGMATS

SERIES V, F/18

WIDE ANGLE AND COPYING LENS





ESPECIALLY recommended for Photo Mechanical work and high grade mechanical Reproduction Processes, and is undoubtedly the best of the Zeiss Lenses for this purpose. For the reproduction of maps, plans and drawings. They yield a perfectly flat and an astigmatic image, and are perfectly free from distortion.

No.	Equivalent Focus. inch.	Free diameter of largest lens. inch.	Size of plate covered with stop f. 36. inch.	Diameter of image circle at 104°. inch.	Revised Price with Iris Diaphragms	Price in Aluminum with Iris Dia- phragms
I	33/8	9,	4¾ x57/8	8.5%	\$ 21 00	\$
2	43/8	3/8	51/8×71/8	11	21 00	
3	51/2	1/2	6½x8½	141/8	26 00	
4	7 3 6	9 3 2 3/8 1/2 9 16	8x101/4	1534	33 00	
5	8 1/4	11	IOX12	211/4	41 00	44 00
6	101/2	13	IIXI4	263/4	51 00	54 00
7	123/8	11 16 13 16 15 16	12X1534 Repro. of Ch'ts	31½ at 85°.	60 00	64 00
8	181/8	I	12X1534	331/2	80 00	83 00
9	247/8	13/8	16X20	46	117 00	120 00
0	371/4	21/8.	20X251/2	681/4	231 00	237 00
(I	51 5/8	3	27½ X34	941/2	393 00	401 00
12	651/2	4	351/2×431/4	18	653 00	662 00

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

Ross' Double



Anastigmats

(GOERZ PATENT)

Following the discovery of the new Principle introduced in the Zeiss Anastigmat, Mr. C. P. Goerz has recently discovered a wonderful improvement on this former construction and has embodied the same in his celebrated double Anastigmat Lenses.

In the hands of such celebrated makers as

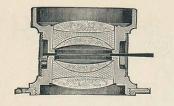
Messrs. Ross & Co. these new formulæ can be looked upon as productive of

Absolutely the Best Photographic Objectives yet Constructed

In them we have the most absolute freedom from Astigmatism, a covering power of microscopic definition with the largest diaphragm and the power of covering at least two sizes larger plate with small stop.

Other qualities eminently represented in this new lens are absolute freedom from distortion, equality in every respect of the visual and photographic image, great depth and uniformity of focus, brilliancy of illumination and freedom of flare.

The numerous testimonials in our possession declare the Double Anastigmats, manufactured by Ross & Co., the most perfect of photographic lenses.





Double Anastigmat

Goerz=Patent. Series III, F. 7/7/10

THE Double Anastigmat, Series III, can justly be looked upon as Ideal Perfection in Optics, for universal purposes; and is undoubtedly the most rapid Lens in existence. The double Anastigmat permits the use of the largest stop without diminishing the sharpness of the image at the extreme margin of the plate.

The definition of this Lens is most wonderful and incomparably superior to any other, while its brilliancy is unequalled. The definition, brilliancy and flatness of field are uniform over the entire plate.

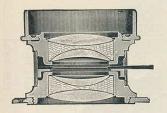
Should you desire Portraits in-doors or out-doors, Groups, Marine Views, Landscapes, Botanical Studies, Instantaneous Studies of Animal Life in Motion, Copies, Enlargements, Reproductions or Mercantile Photographs, this Lens will render them all and do it equally well in all instances, even being available for Wide Angle work, as it gives, with a medium stop, an angle of 90 degrees.

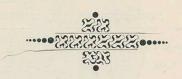
REDUCED PRICE LIST OF SERIES III.

No.	Equiv. Focus.	Plate Covered F 8.	Plate Covered F 16.	Price Brass Stops.	Price. Irıs D.	By special arrangement P. M. Co.
00	4	31 x 41	4 × 5	\$ 28.00	\$ 33.00	00 & 0 \$11.25
0	5	4 x 6	4 ¹ / ₄ x 6 ¹ / ₂ 5 x 7	30.00	35.00 42.00	I 11.75
1 2		4 ¹ / ₄ x 6 ¹ / ₂ 5 x 7	5 x 7 5 x 8 t	37.00 43.00	48.00	2 12.25
	7 81	5 x 7 5½ x 8½	61 x 81	53.00	58.00	3 12.50
3	91	61 x 81	8 x 10	65.00	70.00	4 13.50
4	101	8 x 10	10 X 12	80.00	85.00	5 14.25
5 6	12	10 X 12	II X 14	95.00	100.00	6 15.00
	14	II X 14	14 X 17	123.00	131.00	7 16.25
7 8	19	14 X 17	18 x 22	198.00	205.00	8 20.00
9	24	18 x 22	20 X 24	298.00	304.00	9 25.00
10	30	20 X 24	24 X 28	495.05	504.00	10 31.50
11	35	24 X 28	30 x 35	975.00	1,000.00	11 36.00

Double Anastigmat

Goerz Patent. Series IV. F/II.





HAT we have said for the Zeiss Series V. is true in a still higher degree of this series of the Double Anastigmats. We refer in particular to the incomparable utility of this instrument for process work of the highest order. These lenses will give sharpness equal to a steel engraving over the entire plate, and are an indispensable adjunct to every first-class Reproduction Laboratory or Half-tone Establishment.

This Lens is also indispensable for reproducing mathematically accurate copies of Maps, Plans, Architectural Drawings and Line Work of all kinds. It is, besides, naturally applicable to enlarging interiors, groups and land-scapes.

The angle of clearly defined image with the largest aperture is 75° ; with a smaller stop it will define with uniform sharpness and brilliancy over an angle of 90° .

The dimensions given below are rather smaller than those actually covered.

REDUCED PRICE LIST OF SERIES IV.

No.	Equiv. Focus.	For Reproduction.	For En- larging. F 16-22.	For Groups.	With Smaller Stops. Price with Waterhouse Stops.		Prices Iris D.	
-	inches.	inches.	inches.	inches.	inches.			
6	12	16x18	IOX12	IOX12	16x18	\$ 103	\$ 108	
7	14	18x22	12X16	12X16	18x22	132	137	
8	19	22X25	16x18	16x18	22X25	215	220	
9	24	24X30	18x22	18x22	24X30	323	330	
10	30	28x36	22X25	22X25	28x36	528	535	
II	35	34×44	24X30	24X30	34×44	1,023	1,030	
12	47	40x60	28x36	28x36	40x60	1,848	1,857	

Table for Finding the Distances of Subject and of Ground Glass from the Lens in Order to Produce an image of a Given Size

(From the American Amateur Photographer.)

[Size of Subject, 6 feet.]

DISTANCES IN INCHES FROM OBJECT TO LENS.

Eq		alent Focus	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.	36 in, high.	48 in. high.	54 in. high.	60 in. high.	72 in. high.
3 in	che	s	75 100	57 76	613	52												
5			125	95	77	65	50											
8			200	100000000000000000000000000000000000000	92 ³ / ₅	104	80	49 ¹ / ₈ 65 ⁶ / ₁₀	56		178							
10 12	66		300		154 1844	130			70 84		55%							
16 20			400 500		2462	208	161	1315	112	88	725	64						i i
24			600	456	3693	312	240	1964	168		1105	96	813	60 72		46 ² / ₃	524	48
30 36			750					246 307‡			$136\frac{1}{8}$ $165\frac{3}{5}$			90		70 84	65 79‡	60 72
48 60			1200	912	7395	624	480	3931	336	264	2205	192	1635	144	120	112	1053	96
72					1024 1108 <u>4</u>						$\frac{272\frac{1}{4}}{321\frac{1}{5}}$						132 1583	120

DISTANCES IN INCHES FROM LENS TO GROUND GLASS.

Equivalent Focus	in. high.	in. high.	ın. high.	in. high.	in. high.	in. high.	in. high.	in. high.	in. high.	in. high.	in. high.	in. high,	ın. high.	in. high.	in. high.	n. high.
of Lens.	31.	1.4	5 1	6 i	8 1	ro i	13		20 i	4	30 i			4	o ii	2 in
1	-	-	-	-	-	1	1	91	-01	-01	20	136	148	70	bo	172
3 inches	31	3 1		-1											la III	
4	46	48	45	43	25			. 5								
6 "	5 5 6 1 6 1 6 1 6 1 6 1 6 1 6 1	5 5 6 1 8 6 1 8	572 65	5 5 1 2 6 1/2	59 623	-1		300						1		
8 "	81	84	85	82	88	79 91 9	913									
10 "	105	105	1035	105	111		II	122		1 95					150	
12 "	125	123	125	13	133		14		151						-	
16 "	163	168	175	175	177	183	183		201	2113	223	24				
20 ''		211	217	$21\frac{2}{3}$	223	227	231	244	25-5	263	281	30	331	35		
24 "	25	251	$25\frac{2}{3}$	26	263		28	293	308	32	34	36	40	42	44	48
30 "		313	3212	32 1/2	333	346	35	363	381	40	421	45	50	521	55	60
36		38	381		393		42	44	46	48	51	54	60	63	66	72
48 ''		503	513	52	533	543	56	582	$61\frac{1}{3}$	64	68	72	80	84	88	96
60 "				65		681	70	731	$77\frac{2}{3}$	80	85		100	105	110	120
72 "	75	76	77	78	79첫	80	84	88	92	96	102	108	120	126	132	144

Suppose the lens used is 24 in. equiv. focus, and you wish to make a full-length portrait of a man six feet high, in which the image will be six inches high. Look at the left-hand column for lens focus, and in top line for size of image. At the intersection of these columns we find 312 inches, or 26 feet to be the distance the person must stand from the lens. In the next table, using the same lens and size of image as before, at the intersection of the columns we find 26 inches, which represents the distance of the ground glass from lens center. And in the same way any lens and size of image may be computed for.

BUY A ROSS' LENS



C Series

THESE lenses are of the universal type, consisting of two symmetrical achromatic combinations absolutely aplanatic and made of the new Jena Glass, thus rendering a perfect illumination, giving great rapidity and a sharp and even defining power. They are very carefully corrected and absolutely rectilinear, making them valuable also for copying.

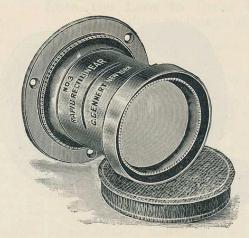
Great care is bestowed on the selection of glass and grinding, and only faultless lenses are mounted.

This lens will be found superior to any of the Euroscopic or Aplanatic class for portraits and groups in the studio, or for instantaneous work of any kind, and can also be used for Architectural Work, Copying or Enlarging.

REDUCED PRICE LIST.

Number	Diam. Lens.	Equiv. Focus.	Size Portrait.	Size Landscape.	Price, Waterhouse Diaphr.	Price, Iris Diaphr
I	I	434	4X5	5x6	\$17.00	\$20.00
2	11/4	61/2	5X7	6x8	24.00	27.50
3	11/2	81/4	6x8	7X9	28.00	32.00
4	13/4	95	7X9	8x10	33.00	37.50
5	2	111/2	8x10	IOX12	40.00	45.00
6	21/2	141/3	IOX12	IIXI4	60.00	65.00
7	3	163/4	12X16	14X17	75.00	80.00
8	31/2	201/2	15X18	16X20	100.00	107.50
9	4	24	17X20	20X24	125.00	135.00
10	5	30	20X24	22X28	200.00	220,00

Gennert Rapid Rectilinear Lenses



For Portraits, Groups, Architect Work and Copying

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IN order to discourage the sale of cheap R. R. Lenses of poor quality and long focus, this lens has been brought out by us and will be found vastly superior to anything in the way of a cheap lens. Although low in price, it is accurately and carefully constructed from Jena Glass, and has a command of light equal to any High Grade Rapid Rectilinear Lens. It works at F 8. It is made at one of the reputable lens maker's in Germany, after our own instructions, and is carefully and conscientiously constructed; it has nothing in common with the cheap French lenses ground by machinery and not corrected, and which are sold by many dealers under a dozen different names and said to be just as good as so and so but much cheaper.

With medium stop these lenses will cut the next largest size plate.

Revised List of G. Gennert Rapid Rectilinear Lenses

No.	Diam, Lens.	Equiv. Focus.	Size Plate Covered at F 8.	Price.
I	11/8	6¾ inches	5x 6 inches	\$18.00
2	1 7-16	8¼ inches	6x 8 inches	22.50
3	1 3/4	9½ inches	7x 9 inches	27,50
4	2	111/4 inches	8x10 inches	32.00
5	2 7-16	14½ inches	10X12 inches	47.50
6	3	1634 inches	12x16 inches	64.00
7	33/8	21 inches	15x18 inches	87.50

The Lens Combination

"SERAPH"

Consisting of Four Finely Ground Achromatic Lenses, and Making Six teen Different Combinations for Portraits, Groups, Reproductions, Projections, Landscapes, Instantaneous

Exposures, &c.



THE Lens Combination "SERAPH," when used as a rapid rectilinear lens, covers plates from 4x5 up to 8x10; when used as a wide angle lens, it covers plates 5x7 up to 10x12; and when used as a landscape lens (posterior lens only), covers plates 5x7 up to 12x16, with perfect sharpness.

All lenses are ground strictly according to the laws of optics, and are perfectly achromatic. They have a uniform diameter of 1 1-5 inches.

Upon the mounting of each lens is engraved the exact focal length in centimeters, and in making the combinations especial care must be taken that the lens with the longer focal length is always the anterior (front), and the one with the shorter focal length always the posterior (back) lens of the combination. In forming wide angle lenses, which all comprise an angle of 100 to 110 degrees, the removable auxiliary tube is to be omitted from between the lenses, and the lenses are to be attached directly to the main tube. In rapid rectilinear combinations, however, the auxiliary tube must be replaced.

For instantaneous exposures the next larger combination is always recommended, rather than the use of the diaphragms, which give sharpness only at the expense of illumination.

The posterior lenses, when used alone, work with fine definition and great depth of focus, and are especially serviceable for distant views, but must always be used in connection with small diaphragms.

The tube of the lens is provided with an Iris diaphragm, having a scale to indicate the different sizes of lens openings. The best results are ob-

tained if the focus is taken with the largest diaphragm and a smaller diaphragm used in making the exposure.

The price of the Combination, which practically means sixteen separate lenses, is \$25.00.

TABLE OF COMBINATIONS

With front lens	45	35	25	45	45	35
With back lens	35	25	15	25	15	15
Focus in inches	84	63	4	75	5 3	5 }
Rapid rectilinear covering	7×9	5×7.	3¾ ×4¾	6½x8½	434 x61/2	4×5
Wide angle covering	IOX12	7x9	5×7	81/2 × 101/2	7x9	6½x8½
Back lens alone	45	35	25	15		
Covers	12X16	IOXI2	7x9	5×7		

Combination "Lumen"

THIS Combination differs from the former in that it consists of seven accurately ground achromatic lenses, which can be combined in over thirty different ways, to cover any size of plate from 3 ½ x4½ up to 25x30.

In the set "LUMEN" there are two auxiliary rings (blackened), situated at the front and rear of the main tube, which must be detached when forming a wide angle lens.

Combination "LUMEN" has Iris diaphragm.

Price, \$50.00.

TABLE OF COMBINATIONS WITH "LUMEN"

With frontlens	75	65	-55	45	35	25	75	65	55	45	35
With back lens	65	55	45	35	25	15	55	45	35	25	15
Focus in inches	14	12	10	8	6	4	13	11	9	7	5
Rapid rec. cov.	12X16	93X12	82X104	71×93	44x62	3X4	93X12	93x12	71x93	44x62	33x44
Wide ang. cov.	20X24	16X20	12X16	9 ³ X12	7½X9¾	4X51	20X20	12X16	93X12	7½x93	44x63
Back lens aione	- 75	65	55	45	35	25	15				
Covers	24X28	20X24	16X20	12X16	9 ³ X12	7½X9¾	5\frac{1}{5}X7\frac{1}{5}				

N. B.—The heavy figures indicate combinations for the fastest instantaneous work.

G. G. Single Achromatic

THESE lenses give brilliant effects for ordinary landscape work. They consist of an achromatic combination, mounted in finely lacquered brass tube, and supplied with a set of circular diaphragms that fit into the front of the lens and are secured by a ring.

They fully cover the plates for which they are designed, and are equal to any single lens so far made.



The single achromatic lenses, though not intended for instantaneous work, can be used for that purpose, in connection with a rapid plate and a good light.

No. 1, 4 x 5 plates,		(*)	\$3.60	No. 3,	6½ x 8	8½ plates	,		\$5.00
No. 2, 5 x 8 "			4.00	No. 4,	8 x	10 "			7.50

Gem Tubes



THESE are lenses mounted in plain tubes without central stops or hoods. They come matched—the one-ninth in sets of 4, 6 or 9 each; the quarter size in sets of 2, 4, 6 or 8.

	One-ninth size, 3 inches l	oack f	ocus,			each,	\$ 2.25
	One-quarter size, 434 incl	ies ba	ick fo	cus,	-		3.50
	" " per set	of for	ar, .				12.50
В	rass Plates for above s	upp1	ied a	s fol	lows	:	
	For 9 size Gem lenses,	14.7				7.00	\$1.80

FLANGES AND CAPS

Diam 1	1/2						5		
Brass	6oc	75C.	\$1.00	\$1.25	\$1.50	\$1.75	\$2.00	\$2.50	\$3.00
Alumin\$	1.00						3.50		
Leather caps	75C	85c.	1.00	1.25	1.25	1.40	1.50	1.75	2.00

Condensing Lenses

For Solar Printing, Enlarging on Bromide Paper and Magic Lanterns

THESE lenses are made of the very highest grade of glass and possess strong curvature, so as to give the greatest concentration of light. They should not be confounded with plano-convex lenses of weak curvature, and therefore of insufficient concentrating capacity.

Number.	Diameter.	Price Unmounted.	Price In Brass Mounting.
1		\$1.50 each.	\$4.50 per pair.
2	21/4 "	1.75 ''	5.00 "
3		2.00 "	6.00 "
4		2.25 "	7,00 "
5		2.50 "	8.00 ''
ő		3.00 "	10,00
7		3.75 "	11.50
8		6.00 "	17.00 "
9		10.00 "	25.00 ''
10		15.00 **	36,00 ''
II		20,00 "	46.00
12		25.00 "	60.00 ''
13		38.00 "	95.00 "
14		50,00 "	120.00 ''

Finder Lenses, with ground edges, 3½ or 2½ inch focus, ½ inch diameter, 40 cents each.



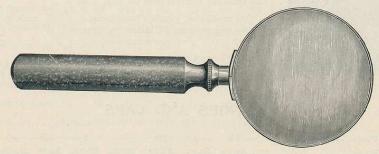
Focusing Glasses

A most handy and convenient aid in ascertaining a very sharp focus. They have a magnifying power of about two diameters.

Price, three-legged, microscopical, - - - 75 cents.

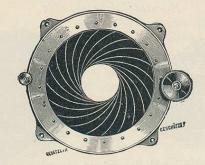
Retouching Glasses

Consist of large bi-convex lenses, handsomely fitted in hard rubber band, and supplied with ebony handle.



2	inch Lens	 \$.75	31/2	inch Lens	 	 	 	.\$	1.75
21/2	6.6	 1.00	4	**	 	 	 	. 1	2,25
3	6.6	 1,25	41/2	.00					2.50

Gennert's Iris Lens Flange



THIS ingenious piece of apparatus enables one to attach any size of lens (within limits) to one and the same front board. It is an excellent invention, especially for those who experiment with lenses, as it saves time and front boards. The lens is fitted in a second by adjusting the size of the opening by means of one of the screws, shown in the cut, inserting the lens and clamping it with the other screw.

Price of Size 1, taking lenses with a tube $\frac{4}{10}$, to $2\frac{4}{10}$ inches diameter, \$5.50 "Size 2, " $\frac{4}{5}$, $\frac{5}{3}$, " $\frac{6}{10}$, 00 0.75 " $\frac{4}{10}$, $\frac{4}{10}$, " $\frac{6}{10}$, $\frac{6}{10}$

YOU SHOULD GET ONE.

Prisms

THESE Prisms are intended to be used in all classes of photo-mechanical processes. They invert the image and make stripping of the film unnecessary. The glass is of the highest possible excellence, the surfaces are as accurately ground and polished as the surfaces of a first-class lens, so as to give an absolutely true reflection of the image. The hypothenuse is carefully silvered. These prisms are in lacquered brass mountings and arranged to fit the hood of lens.

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. A size which is larger than this is preferable, but under no condition should a smaller one be selected, as in the work in which these prisms are required it is of great importance to utilize all the possible light which the lens can transmit.

Full Aperture.	Price.	Full Aperture.	Price.
2 " 21/2 "	\$ 30.00 38.00 47.00 55.00 67.00	4 '' 4½ '' 5½ ''	\$ 80.00 93.00 145.00 185.00

Automatic Duplex Finder

Patented July 12th, 1887.



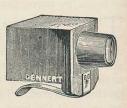


THIS finder is of practical dimensions, is applicable to all cameras, and is of universal utility. The image is either produced on the upper ground glass, and can be seen by looking down upon the finder, or it is produced on the lower screen and becomes visible on looking through the finder. The change is brought about by simple reversal of the instrument. It constitutes two finders in one. Price, \$2.50.

Circular Finders in brass frame and without ground glass, \$2.00.

Gennert's "Accurate" Finder

In construction the "Accurate" Finder is a miniature camera, consisting of a lens, a box and a ground glass. It is to be used in all cases where it is impossible to make use of the ground glass of the camera for locating the picture, as in instantaneous photography. This little instrument will show what objects are thrown on the ground glass of the camera. It is practically indispensable. Price, \$1.50.



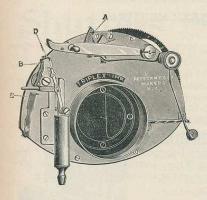
Levels, for Setting up Cameras





Price, Straight Levels, - \$1.29 Circular Levels, - 750

Prosch Triplex Shutter



THE Prosch Triplex Shutter is too well known for us to give a lengthy description. It has been known for the past five years as the most perfect all around shutter and the fastest shutter on record.

THE IMPROVED PROSCH TRIPLEX

Has the one feature that was wanting on the 94 Triplex, "a method for accurately gaging the time of exposure." This is brought about by a new release

and four springs instead of two, as have been heretofore furnished. With the aid of these springs and a time card, which is furnished with each shutter, exposures can be accurately computed, and the disadvantage of working in ignorance of the speed at which a certain spring works the shutter, is entirely overcome.

With the new Improved Triplex a speed as high as the 250th part of a second can be attained. While this claim is also made for other shutters, and some makers claim even more, it is an established fact that the Prosch is the fastest shutter on record.

We would add that in selecting a shutter, heed should be taken of the fact that the only scientifically correct form of shutter is one that opens with straight edges along a diameter of the lens, as does the Triplex, and in addition to this the Triplex exposure is made by two flies or wings in one uninterrupted pass-by movement conductive of perfect freedom from vibration, and makes possible the great speed which all may, but none can, duplicate.

The New Triplex, of course, works between the lenses, and as a new lens tube is supplied the original lens tube need not be mutilated. Rotary stops are supplied unless Waterhouse diaphragms are preferred, and the openings, five in number, the largest being equal to the full opening of shutter, the remaining ones as desired.

As a hand camera shutter the Prosch Triplex Improved is unsurpassed, and is undoubtedly the ideal. It can be operated by pneumatic or trigger release, and can be fitted to detective boxes working from the outside, at \$15 each.

. The Prosch Athlete Shutter, the most rapid in the world, especially

adapted to racing and athletic studies, a modification of the New Triplex Improved, can be had at \$5 additional to the prices of Triplex.

Stereoscopic Shutters will also be furnished when desired.

	PRICE	LIST OF	"TRII	PLEX"	SHUTTE	RS		
Size	00	0	oA	I	ıA	2	2A	3
Aperture, in	3/4	7/8	I	11/8	11/4	13/8	11/2	134
Price	\$12.50	13.00	13.50	14.00	15.00	15.50	16.00	17.00
Extra for Aluminum.	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
	3A	4	5	6	7	8 .		
	2	2/4	21/2	3	31/2	4		
	\$18.00	20.00	22.00	26.00	30.00	35.00		
44 44 44	7.00					0.4.		

When lenses come so close together that rotary stop must be fitted inside of shutter frame, \$1 additional to list price (up to No. 2A).

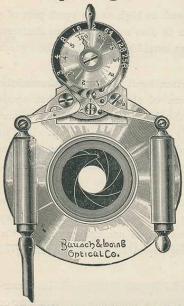
TRIPLEX STEREOSCOPIC

Our standard separation is 3½ inches between centers of lenses. Any deviation from this, either more or less, \$1.00 extra per ½ inch or less This shutter is manipulated in the same manner as our regular Triplex.

	PRICE			
Size	00	0	oA	I
Aperture	3/4	7/8	I	11/8
Price	\$20.00	22.00	23.50	25.00

This is absolutely the only practicable Stereoscopic Shutter made, and is used by all professionals in the Stereo line.

Diaphragm Shutter Time and Instantaneous ... with Silent Time Attachment



HIS Shutter works like an Iris Diaphragm, opening and closing from the optical axis. It is provided with a silent time attachment and speed indicator, showing the speed of exposure on the index in seconds and fractions thereof. The movement during exposure is almost free from concussion and works smoothly at all times. The blades are of hard rubber, which will not rust, and the parts used for manipulation are directly in front, within easy reach. It is a handsome combination of nickel and brass in appearance, and can be fitted to almost any lens. The upper lever shuts the shutter without making an exposure, and any speed can be attained with this shutter from 3 to 1-100 of a second. It can be operated with bulb or finger release as desired.

Price, fitted to any lens, leaving barrel intact:

7/8	inch of	pening of	Diaphragm,	\$13.00	134	inch o	pening of	Diaphragm,	16.00
11/8	66		**	14.00	2	6.6	**	**	18.00
176			25% inch ope	15.00 ening of D	2¼ japhras		\$21.00	**	19.50

Stereoscopic Shutters, at \$6.00 extra, besides the price of the two shutters. Graduating Disc to correspond with diaphragms, \$1.00.

THE Thornton-Pickard shutters are the most perfect shutters for use where a shutter can not be advantageously put between the lenses, and being much cheaper than these diaphragm shutters, while fully as efficient, should invariably be chosen as the most perfect all round shutter at a reasonable cost.



TIME AND INST. THORNTON-PICKARD SHUTTER.

DESCRIPTION OF THE SHUTTER.—In the interior of the case (which is made of mahogany of a rich, dark color, and is nicely polished and finished) there are two rollers, A and B, one at the top and the other at the bottom. A piece of flexible and perfectly light-proof cloth, the full width of the case, is joined at its opposite ends to these rollers, so that it can be wound off one on to the other like a blind or curtain. Midway in the blind a rectangular hole is cut somewhat larger than the lens hood. The interior of the bottom roller contains a spiral spring made of the best fine steel wire. The spring can be wound up to increase the speed by the knob. The spring catch drops into a notch cut in the knob, for the purpose of holding it when wound up. A slight downward pressure on this catch will allow the spring to run down to its lowest tension. At the end of the top roller is a small pinion, which works into a

toothed wheel on the outside of the case, as seen in Fig. 1. The arm or pointer, also seen in the engraving, may be placed at "Time" or "Inst." When the shutter is worked with the pointer at "Inst." as shown, it keeps clear of the wheel, and allows the blind to run to the bottom, giving an instantaneous exposure; but if the pointer is placed at "Time," the wheel is stopped by means of a projecting stud, which causes the half unwound blind to remain open and give a prolonged exposure, until the ball is released. At the end of the top roller, inside the case, there is a pulley, P, on to which the cord C winds. The cord, which is made specially strong for the purpose, terminates in a small tassel as shown. The shutter has a large round aperture through it from back to front. The back part is recessed, and is lined with a piece of Patent Rubber Moulding, R, of special form, for the purpose of accurately fitting the lens, which is also shown. Should the fit be rather too slack, it may be made tighter by turning an adjusting screw. The action of the Shutter is as follows:

FOR AN "INSTANTANEOUS" EXPOSURE place the lever opposite the word "INST." The pulling of the cord winds the blind upon the top roller, so that the opaque bottom end covers the opening, and, consequently, the lens. If, now, the pneumatic ball is pressed, it will lift the lever clear of the stud and release the wheel, allowing the blind to rapidly re-wind upon the bottom spring roller. The aperture in the blind, therefore, passes rapidly across the opening in the Shutter, which is instantly covered again by the opaque end of the blind. The exposure thus given is an instantaneous one.

THE DURATION OF THE EXPOSURE can be determined by consulting the Speed Indicator. This consists of a dial, marked in fractions of a second, attached to the side of the Shutter, and a pointer on the end of the spring-roller spindle. The speed is indicated on the dial in fractions of a second by the pointer, which can be set to the speed desired by means of the knob.

For "Time" Exposures the cord is pulled to its limit as before, but the lever is placed opposite the word "Time." On squeezing the pneumatic ball the blind stops open by means of the stud, which catches in the notch in the lever as before described; it remains open until the pressure on the ball is released. Thus a time exposure of any required duration may be given.

THORNTON=PICKARD

Extraordinary Rapidity Remarkable Results

With Patent Adjustable Slit

FOCAL PLANE SHUTTER

PARTICULARS OF THE SMALLEST SIZE. For 41/4 x 31/4 in. plates.

Weight, 10 ozs.

Dimensions, 51/xx51/xx11/4 inches (not including Adaptors). Range of Speed from 1-20 to 1-1000 of a second.

OR those who desire to obtain instantaneous photographs of subjects having an extremely rapid movement, such as flying birds, animals and men leaping, jumping, etc., etc., this is the best shutter.

When ordering, please send the Reversible Back and a Dark Slide or Plate Holder. If the Camera has no Reversible Back, send the Slide or Holder only.

The "Focal Plane" Shutter is made upon the Roller Blind principle, like all the Thornton-Pickard Shutters. It fits at the back of the Camera, and the dark slide fits into the back of the Shutter. The Shutter-Blind, therefore, works just in front of the plate, and has a narrow slit in it the full width of the plate, which gives the exposure as it passes rapidly across. The speed is regulated by the small knob.



Fig. 10.

In the bottom end of the blind there is an opening the full size of the plate, by means of which the picture may be focussed on the ground glass if the blind is wound to the top. After focussing, the blind is released to allow it to run down until set for exposure, as above described. The speed can be altered by means of a small knob that winds up the driving spring, and also by altering the width of the Adjustable Slit. The Speed Indicator, described on page 22, is always fitted to this Shutter, unless otherwise ordered.

THE NEW PATENT ADJUSTABLE SLIT is added to all Focal Plane Shutters, in addition to the adjustable spring roller, without any extra charge. This improve nent adds greatly to the range of speed of the Shutter, extending from 1.20th of a second to 1-1000th of a second. For prolonged exposures the Shutter is wound up to the top as when focussing, and a cap or a Time Shutter may be used in the ordinary way without removing the Focal Plane Shutter from the Camera.

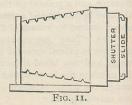
DIRECTIONS FOR ALTERING THE WIDTH OF SLIT .- After removing the focussing screen, take hold of the two struts which form the parallel sides of the slit in the blind, and turn them askew, at the same time drawing them forward out of the Shutter. The chains at the ends of the slit can then be manipulated.

It will be observed that one end of the chain is fixed permanently to one strut, while the other part of the chain is linked on to the extreme end of the other strut, the end of it passing inwards along the length of the strut. This part may be pulled out and linked on the end of the strut to make the slit wider, or allowed to spring back into the strut which makes the slit narrower. All that is necessary is to see that the same number of links are used at each end of the slit.

THE SPEED OF THE SHUTTER IS found by DIVIDING THE SPEED GIVEN ON THE INDICATOR BY THE NUMBER OF LINKS IN USE at each end.

Note.—Unless ordered otherwise, an indicator is fitted to all Focal Plane Shutters.

FITTING THE SHUTTER TO THE CAMERA. - (No extra charges, the price for fitting being included in the price of the Shutter.) We make the Shutter to fit at the back of the Camera in place of the reversing back, which is therefore not required, as the Shutter itself is made to reverse instead. It does not alter the Camera in any way, and the reversing back can be substituted in a moment, whenever desired.



REVISED PRICE LIST

OF THE

THORNTON-PICKARD SHUTTERS

INCLUDING SPEED INDICATOR

Time and Instantaneous Shutter (Standard Pattern). Including Speed Indicator. The best shutter for all-round work. It will give any exposure from fractions of a second up to minutes or hours, without vibrations. It will fit two or more lenses of different sizes by means of Adaptors.

To fit on a Lens Hood or Tube up to inches diameter-

11/2 15/8 2 21/2 3 31/2 4 41/2 5 \$9.00 9.00 10.00 11.50 13.50 16.00 18.00 20.50 23.00 Other sizes made to order.

FOCAL PLANE SHUTTER. Including Speed Indicator. For High Speed Instantaneous Exposures. It has a range of speed from 1-20 to 1-1000 of a second, and is fitted with the Patent Adjustable Slit. It fits at the back of the Camera, in front of the plate.

For Plates-4inx5in 4/2inx6/2in 5inx7in 5inx8in 6/2inx8/2in 8inx10in 10inx12in 11inx14in \$19.50 22.00 24.00 28.00 34.00 39.00 Other Sizes made to order.

PNEUMATIC BALL AND TUBE. Consisting of Ball, Tube, and Teat complete. 75 cents. (Every Shutter is fitted with a Pneumatic Ball and Tube, which is included in the above price.)

PATENT RUBBER MOULDING, for fitting shutters to Lenses, or making Adaptors so that Shutters will fit more than one Lens. Made in Seven different thicknesses, from 1-16 in to 1/4 in inclusive. 30 cents per foot.



INSTRUCTION FOR ORDERING .- For Time and Instantaneous Shutter-Please send a narrow strip of paper just long enough to meet round the Lens Hood or Tube. The Shutters work equally well fitted to the Lens Hood or the Lens Body.

For Focal Plane Shutter-This shutter is fitted into the back of the Camera in the same way as the Reversible Back, and in fact takes the place

of it. The Plate Holder fits into the back of the Shutter.



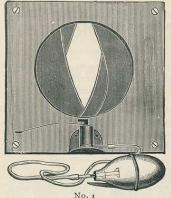
The cost of fitting is included if Reversible Back with Focussing Screen and a Plate Holder are sent to us when ordering, otherwise we supply the Shutter with an adapting frame which may be cut down and fitted to the required size by any cabinet maker. If the Camera has no Reversible Back it is sufficient to send a Plate Holder.

Bulbs and Tubing for Shutters

Rubber Tubing, per foot.........\$0.05 | Bulbs, each................\$0.25 Connections, between Bulb and Tubing\$0.10

GREEN'S

Improved Four-Winged Shutter



THESE Shutters are the simplest, easiest, most compact and most noiseless pneumatic shutters made. The "Compound" requires a very small frontboard. The Compound Time and Instantaneous are the latest improved, are very rapid, and will work well on the



smallest frontboards. The sizes larger than 21/2 inches have a switch, which allows them to make an instantaneous exposure and to set at once for the next exposure. This prevents double exposure or fogging plates.

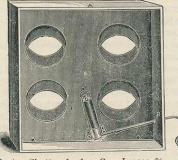
		Tim	e.		DIE STORY	Tim
Ope:	ize ning. nches. " " " " " " " " "	Fron. 4 i 434 558 61/2 71/2 81/2	rits tboard. nches. "" "" "" "" "" "" "" "" "" "" "" "" ""	Price, \$4.50 4.50 5.00 5.50 6.00 6.50 7.00	Si Oper 1½ in 2 2½ 3 3½ 4 4½	ze
8	**	113/8	(+	8.00	5	"

Green's Compound or Four-Winged Shutters. | Green's Compound or Four-Winged Shutters. ne and Instantaneous.

Siz			Fits tboard.	Price.
1½ in			nches.	\$5.50
2		334	66	5.50
21/2	**	41/8		5.50
3		5 5/8	4.4	7.00
31/2	44	61/2	66	7.50
4	"	71/2	4.6	8.00
41/2	**	81/2	"	8.50
5	"	9		9.00

Compound Side Lift

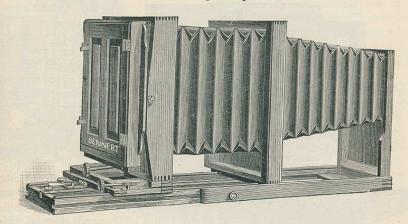
- 01	apound orde Lines	
Size Opening.	Fits Frontboard.	Price.
11/2 inches.	25% inches.	\$5.00
134	31/8	5.00
2 "	334 "	5.00
21/2 "	41/8 "	5.00



Bonton Shutter, for four Gem Lenses, \$6.00

Gennert's "Improved" Portrait Cameras

Extra Quality



TX/HILE other classes of cameras receive attention from all makers and are continually being improved, we are the first to show progress in Portrait Cameras for the coming year.

Our Portrait Camera has been greatly improved and we have added two new features which undoubtedly make it the peer of all portrait cameras.

The improvements consist of an Improved gearing for the curtain slide holder and "Bauer's" trolley focussing device, which make the working of this camera a pleasure. You can change the slide with one finger, it works so easily, and with the "trolley service" a 20x24 camera can be focussed minutely with the ease of a 31/4 x 41/4.

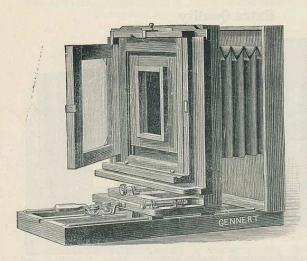
Our workmanship is now also vastly superior to that of most makers and equal to the best that can be possibly offered, and we are one of the few makers who hand polish their cameras from the ground up on the French method.

The wood used in these cameras is the very finest Spanish Mahogany. The focussing is done by means of a lever, the double swing is worked by tangent screws, the bed is telescopic and bellows are made of the very finest rubber sheeting procurable.

SIZES AND PRICES ARE AS FOLLOWS:

11 x 14, C	onical Fro	nt,	- P	atfor	m 48 i	nche	s long,		-		- 4	-		\$56.00
14 X 17,	61		-		65	6.6	46	-		-				60.00
16 x 20,	a		E 10 F00	8.6	65	6.6	6.6		-		_			70.00
17 X 20,	**	77. E	-	6.6	65		**	-		4	-			75.00
13 x 22,	6.6			"	70	-65	**				-	-		85.00
20 X 24,	**	-		"	72		6.6	-		-	-			95.00
22 X 27,	16	too	rder,	"	72	4.4	4.4							105.00
25 X 30,	44		(t	**	80	4.4	64	120		4	-		-	135.00
30 x 40,	14		**	1.5	90	10.0	64		-	140				175.00
					3'	7								

Gennert's Imperial Cameras



G. IMPERI-I. AL Cameras are especially constructed for cabinet photos, are provided with square rubber bellows, two swings and lever focussing arrangement. The ground glass is attached to frame by hinges. The special feature is the shifting frame for making several exposures on one plate. The number and sizes of pictures to be taken on

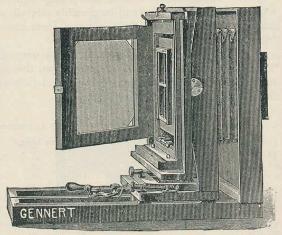
the different sizes of plates are: with one-half size lens, two cartes-de-visite on $4\frac{1}{2}x6\frac{1}{2}$ or 5x7 plate; with 4x4 lens, two imperials on an 8x10 plate. Besides, this camera may be used for plates smaller than 8x10 or 10x12, combining in this manner its own advantages with those of an ordinary portrait camera.

Price, for 8x10, finely polished and furnished with double swing and plate holder, with complete set of kits,

The same, 10x12, - - - - - 55.00

Gennert's Cincinnati Gem Camera

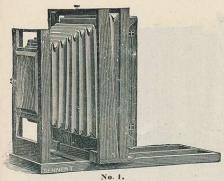
OR use with "dry plates " or "ferrotype plates," making pictures from 1/4 size up to 8x10, as well as two pictures on 5x7, 7x10 or 8x10 plate with one lens. With four 1/4 gem tubes it makes four or eight pictures on 5x7 or 7x10 plates. Fitted with carriage movement, double swing and one holder, with reversible rabbeted kits, \$27.50; fitted with four 1/4 size lenses, \$15.00 extra.



Extra sets of Bon Ton Diaphragms for above

\$1.35

Gennert's Extra Quality View Camera

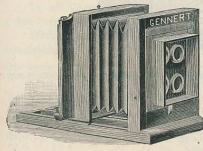


THESE view cameras are of the back focus pattern, and have a very large range of swing, both horizontal and vertical. They have cone bellows, rising and falling front and reversible back. The finest mahogany, the best polish and finely lacquered brass work are used in the construction of these cameras. The qualities aimed at are strength and rigidity, rather than lightness,

which, in large cameras, usually implies weakness. This box may safely be called the Ideal Camera of the professional view photographer. Sizes up to 14 x 17 are furnished with double book holders, above 14 x 17 with single curtain slide holders. The following are the sizes and prices:

				THE THE LE	3	
				7	XI.	
10 X 12,	double	swing,	\$45.00	MAY		
11 X 14,	6.6		55.00			
14 X 17,		66	65.00			
17 X 20,	"	66	75.00			
18 x 22,	66		80.00			
20 X 24,	6.6	66	90.00			
				ENNERT	No. 2.	

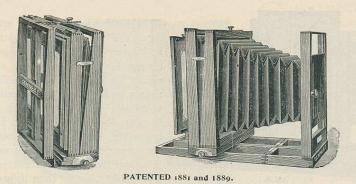
Rockaway Feriotype Cameras



THIS cheap and handy instrument, made of hardwood throughout, will make four bon-tons on a 5 x 7 plate, with four 1/4 lenses, or a full cabinet with a single lens.

Plain, without lenses, - \$12.00
"with four ¼ lenses, - 27.50
Price of extra holders, - 3.75
Extra sets of Dividers for bon-tons .90
"" " 9½ Lenses 1.20

Nancy Hanks Camera

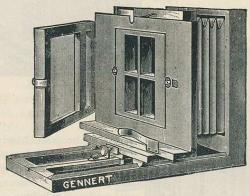


THIS Camera was originally made by us as a competition box, but met with so much favor in the trade that we concluded to list it.

The "Nancy Hanks" is an 8x10 Double swing, back focus view camera, having spring actuated ground glass frame, reversible back, rising and falling front, in fact, all modern improvements. It is, however, shellaced only and not polished; only made in the one size.

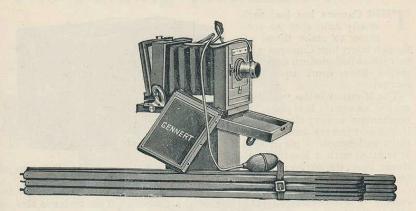
Price, including canvas carrying case and one Double XTRALITE Dry Plate Holder, having Rubber sides, only \$17.50.

Victoria Cameras



AKE full 5 x 7, 4 ½ x plate, with four gen Price, without lense	5½ or 3¼ x n lenses.	41/4	picture	es, or	four	gen	ns c	on 5 x 7
Price, without lense	s, fitted wit	th rev	rersible	e kits	; -		4	\$15.00
Fitted with four one-quarte	er gem lense	es and	d plate			-	-	31.50
Extra holders, with kits		-		-	-	-		5.50
Extra sets of diaphragms for				-	-	-	-	1.35
" " 9	tenses Lenses	2 %			-	-		1.50

The "Outing" Equipment



Complete. Neat. Inexpensive

THIS Outfit includes an "Outing" Camera, handsomely polished, an "XTRALITE" Double Dry Plate Holder, with hard rubber slides, Single Achromatic Lens fitted with a Time and Instantaneous Patent Pneumatic Shutter, Folding Tripod and Carrying Case.

The Camera has rising and falling front, single swing and hinged ground glass. It is of the back focus pattern, and can be reversed to take horizontal or upright pictures. Handsomely made from the best Spanish mahogany, beautifully polished, and having all brass parts, well lacquered. It is not, strictly speaking, a cheap camera, although sold at a low price. The lens is an extra quality "single" lens in lacquered brass mount.

4 X 5	-	-	-	-		-	-	-	-	-	-	\$12.00
5 x 8 -		-0	-	-	-	-	-			-		15.00
6½ x 8½	-	-	-			-	-		-	-		18.00

Chemical Outfit

In all Chemical Outfits, Walpole New Process Chemicals are given, these being the finest quality.

With these cameras we will sell an assortment of chemicals, trays, etc., consisting of:

one for fixing. One Sounce American Ring Graduate. One bottle Metol Developer. One pound Walpole Hyposulphite of Sodium.	One package Sensitized Paper. One bottle Combined Toning and Fixing Bath. One Porcelain Tray. One dozen Card Mounts.
No. 1, for 4 x 5 Outfit, \$3.50 (1.50) 5.00	No. 3, for 6½ x 8½ Outfit, - \$5.75 4, 4 8 x to 6.75

The Montauk Camera

THIS Camera has had such steady sale that we continue to make them, although many new Cameras with more so-called modern improvements have come upon the market.

The Montauk is the "sensible man's" camera! It is plain, the mechanism is very simple, but it makes the very finest of pictures and hence its popularity. It is fitted with a Rapid Recti-



linear lens; the covering is of the very finest seal leather with trimmings of Oxidized Brass.

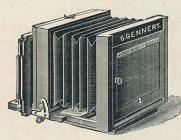
The adjustments consist of a very simple piece of mechanism for focusing by means of a dial at the top of the Camera. The finder is also on top of the Camera on the opposite side, and the buttons for releasing shutter for time or instantaneous exposures are immediately in front of the dial, the most advantageous position, as it enables one to work the camera rapidly.

The "Montauk" is fitted with 3 XTRALITE Double Dry Plate Holders having rubber slides which are contained in the rear end of the camera.

4 x 5,	leather	cover,	3	plate	holders	,	-			-	\$20.00
4 x 5,	**	**	3		**	and 4	X 5	roll hold	ler -		35.00
5 x 7,		44	3	**		•	-		-	-	40.00
5 x 7,	44		3	"	**	and 4	1/2 >	6½ roll	holder	г	55.00

The Outing View Camera

THE principal advantages combined in this camera are: Simplicity, Neatness, Strength, Serviceability.



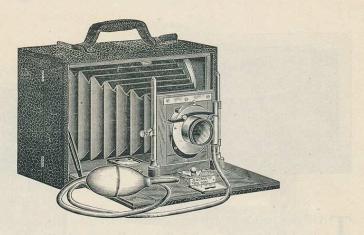
It is perfectly adapted to landscape work and viewing; it is a back focus camera, with folding bed, rising and falling front, and has a hinged ground glass which is lowered before inserting the plate holder. Fine mahogany and cherry wood are used in the manufacture of this camera. The side is provided with a metallic plate, so formed as to receive the screw of the tripod head when the camera

is to be reversed. The operator is thus enabled to photograph pictures with the length of the plate either in vertical or in horizontal position.

Price, including Extra Front Board, Carrying Case and Plate Holder with Rubber Si'des,

No.	Ι,	size of	plate	4x5	inches	-			-	\$6,00
6.6	2,	4.4	**	5x8			-			9.00
66	3,	**	6.6	61/2 x81/2						12.00

The Folding Montauk . . .



UNLIKE the Folding Cameras now on the market, The Folding Montauk is contained within a box but a trifle larger than the plate used.

In other respects it has many advantages in common with cameras of a similar construction, except that it is entirely free from useless contrivances, which, although supposed to be an advantage, are in reality a hindrance to the manipulation of the Camera.

No pains or expense are spared to make the Montauk a thing of beauty. The woodwork is of the finest grained Spanish Mahogany, the brass work highly polished and lacquered, the leather work of the very finest leather (seal), mounted by skilled leather workers, and these features all combine in securing the beautiful appearance and durability of this Camera.

The Folding Montauk has rising and falling front of a new design (cone), leather bellows artfully made, single swing and spring-actuated, non-removable ground glass. It is strictly a plate Camera, and as such is perfect.

. . . PRICE . . .

Includes One Double Xtralite Dry Plate Holder. Can be fitted with any lens and shutter:

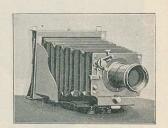
 4×5 , \$17.50 5×7 , \$22.50 $6\frac{1}{2} \times 8\frac{1}{2}$, \$35.00 8×10 , \$50.00

Fitted with fine grade rapid lens and shutter complete:

 4×5 , \$25.00 5×7 , \$35.00 $6\frac{1}{2} \times 8\frac{1}{2}$, \$50.00 8×10 , \$75.00

Invincible Camera _





THIS compact, light and strong little instrument fills a want that we are the first to supply, as it is the only Camera which is made entirely of metal.

The Invincible is a very small Camera made entirely of German Silver (which will not tarnish); it is so small that a 5x7 Camera of this make can be slipped into the coat pocket with ease; all the parts except the bellows are metal, so that in any climate, no matter how damp or how dry, the Invincible is not in the slightest effected by the climatic changes: it is always polished and bright.

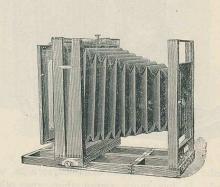
The Invincible has Spring Ground Glass Frame, double swing, rising front. It is fitted with an instantaneous shutter of most modern type, a Rapid Rectilinear Lens of great power, covering the plate absolutely sharp to the edges; an improved View Finder, a neat and compact Carrying Case, which holds the Camera lens, Focusing Cloth and three Double Holders, all of which are included in the price, as well as a Tripod. This Tripod is of the tourist pattern, and when closed resembles a walking-stick or Alpenstock, the point being of assistance in climbing; the top of tripod is a universal joint that allows of the Camera being placed at any desired angle, as well as allowing it to be reversed so that a reversible back on the Camera is not necessary.

The Invincible is made in two sizes only.

The Burlington Camera

(Patented 1893.)





THIS camera is a neat, light and strong instrument, embodying all necessary adjustments of tripod cameras. Although but recently offered for sale, it has met with immediate favor, and has found a surprisingly large sale. This is due as well to its appearance as its price. In every particular the Burlington is perfect. In finish, careful working out of details, in material used, in compactness, and especially in lightness, it stands unmatched.

The Burlington has the rising and falling front, the double swing, conical bellows, the ever popular reversible back, and our *patent spring actuated* ground glass frame, the only one that lies flat with the back and shows no mechanism when folded up.

The 11x14 size has an improvement found in *no other camera*, enabling the insertion of the loaded plate holder, which in this size is quite heavy, with the greatest facility.

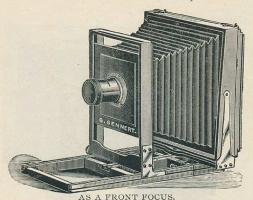
Prices include one double "XTRALITE" dry plate holder with rubber slides, extra front board and handsome drab duck carrying case.

5 X	7,	Double	Swing,	4				-		-		-			\$21,00
5 X	8,	4.6	44	2			-		-		12		4		22.00
61 x	81,				-	-				-		6		-	23.00
8 x	10,	- 61	**	-			-						-01		25 00
IIX	14,				-	-		71		-				-	35.00
14 X	17,	66	66	020					-		4				50.00

Weight of our 8x10 camera only 6 pounds.

THE BRIGHTON" CAMERA

Patented 1881-89 and Patent applied for.



THIS most recent production of our workshops can justly be said to be the finest piece of photographic apparatus ever offered for the use of the professional or amateur photographer.

The Brighton is the first desired step forward in View Cameras for several years and can justly be called perfect, as it has all the features so highly prized by View men.

1st. It is a front focus Camera.

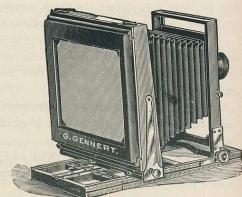
- 2d. It is a Back Focus Camera as well.
- 3d. It has more swing than any other Camera.
- 4th. It has a self-centering, rising and falling front.
- 5th. It has Rack and Pinion (forward) and slide (backward) movement.
- 6th. It has a new front board feature and an extra large front board.
- 7th. It can be used with an extremely short or long focus lens and no lens is so wide in its angle that it can take in any part of the bed.

8th. While no Camera is more rigid when the back clamp is set, it can be taken entirely apart by reversing the tightening lever.

9th. It has an improvement which allows the bed to be raised without the screw catching.

10th. It can be set up and taken down quicker and easier than any Camera.

Add to this absolutely perfect workmanship, materials and finish, and you have the Brighton Camera, the 20th Century Product.

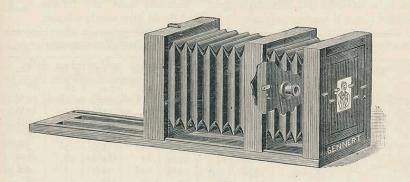


AS A BACK FOCUS.

PRICE LIST

Leather Bellows, Double	5 x 7,	\$24.00
Elegener Bellows, Double	5 x 8,	26.00
Swing, including one	6½ x 8½,	28.00
"Xtralite" Plate Hold-	8 x 10,	30.00
	11 X 14,	40.00
er and Carrying Case,	14 X 17,	60.00

Gennert's Copying, Enlarging and Reducing Cameras



THE form of construction of this new Camera is made apparent by the illustration here shown. The experienced copyist will not need any such simple directions for use as we append.

DIRECTIONS FOR USE.

To copy a negative in the natural size, place it in the kit on the front of the Camera and button it in. Attached to the center frame of the Camera is a division upon which, on the side toward the Camera front, a Lens is mounted. Suppose this to be a quarter-plate Portrait Lens, the focal length of which we will suppose to be four inches—draw back the center frame and the Lens twice the focal length of the Lens (8 inches); slide the back frame with ground glass the same distance from the center frame. To enlarge with the same lens to eight times the size of the original, the center of the Lens must be 4½ inches from the negative, and the ground glass 36 inches from the center of the Lens. To reduce in the same proportion, reverse and have 36 inches from the center of the Lens to the negative, and from the center of the Lens to ground glass 4½ inches.

These examples will furnish a key to the table on next page.

When ordering for these Cameras please specify number and sizes of kits wanted. Following are the prices:

6½ x 8½		-	-	\$27.00	11 x 14	dient l		-	\$55.00
8 x 10		-		30.00	14 X 17	-	- T	-	65.00
IO X 12	7-11	-	10.4	45.00	18 x 22				80.00
	20	X 24	-	+	-	-	\$90.00	932	

Plain Copying Cameras 20 per cent. less. Larger sizes made to order.

Table for Enlargements

(Copied from the "British Journal Almanac" for 1882.)

Focus of Lens.	Times of Enlargement and Reduction.												
Inches.	ı In.	2 In.	3 In.	4 In.	5 In.	6 In.	7 In.	8 In.					
2	4	6	8	10	12	14	16	18					
4	4 .	3	23	2 1/2	2 2	2 1/3	27	2 1/4					
2 1/2		7 1/2	10	121/2	15	171/2	20	22 1/2					
4/4	5 5	33/4	3 1/3	3 1/8	. 3	$2\frac{11}{12}$	2 7	2 1 6					
3	6	9	I 2	15	18	21	24	27					
3	6	4 1/2	4	33/4	33	31/2	37	33/8					
3½	7	101/2	14	17 1/2	21	241/2	28	31 1/2					
3/2	7	5 1/4	43	43/8	45	$4\frac{1}{12}$	4	315					
4	8	I 2	16	20	24	28	32	36					
	8	6	5 1/3	5	45	43	47	4 1/2					
4½	9	131/2	18	221/2	27	31 1/2	36	40 1/2					
	9	63/4	6	55/8	58	3 1/4	57	516					
5	10	15	20	25	30	35_	40	45					
	10	7 1/2	63	61/4	6	58	57	55/8					
5½	II	161/2	22	27 1/2	33	381/2	44	49 1/2					
	II	8 1/4	7 1/3	67/8	63	6 5 1 2	62	616					
6	12	18	24	30	36	42	48	54					
	I 2	9	8	7 1/2	75	7	667	63/4					
7	14	21	28	35	42	49	58	63					
	14	101/2	- CANADA	83/4	83	81/6	8	7 7/8					
8	16	24	32	40	48	56	64	72					
	16	12	103	10	98	91/3	97	9					
9	18	27	36	45	50	63	72	81					
	18	131/2	12	111/4	105	101/2	107	101/8					

It is assumed that the photographer knows exactly what the focus of his lens is, and that he is able to measure accurately from its optical center. The use of the table will be seen from the following illustration:—A photographer has a Carte to enlarge to four times its size, and the lens he intends employing is one of six inches equivalent focus. He must, therefore, look for 4 on the upper horizontal line, and for 6 in the first vertical column, and carry his eye to where these two join, which will be at 30-7½. The greater of these is the distance the sensitive plate must be from the center of the lens, and the lesser the distance of the picture to be copied. To reduce a picture any given number of times the same method must be followed; but in this case the greater number will represent the distance between the lens and the picture to be copied; the latter, that between the lens and the sensitive plate. This explanation will be sufficient for every case of enlargement or reduction.

If the focus of the lens be twelve inches, as this number is not in the column of focal lengths, look out for 6 in this column and multiply by 2; and so on with any other numbers.

Backs to Fit View Cameras

EXTRA backs (our compact pattern with inside springs) are furnished for all our view cameras. Larger cameras can then be used for smaller plates with small holders, thus saving money if many holders are used. In carrying holders about with view cameras, the difference in weight also is considerable.

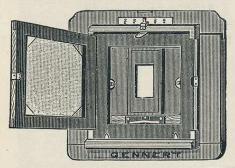
Prices, including up to 14 x 17, one Featherweight holder, above 14 x 17, one Daisy holder.

$6\frac{1}{2}$ x $8\frac{1}{2}$	back, for	5 x 8 pl	ate holder,	\$5.00	14 x 17	back for	II X	14 plate	holder,	\$18.00
8 x10	"	5 x 8	"	5.50	17 X 20	**	10 X	12	**	20.00
8 x10	"	6½x 8½	"	6.00	17 X 20	**	II X	14	4.6	22.00
10 X12	"	5 x 8	"	6.00	17 X 20	4.6	14 X	17	44	24.00
10 X12	"	$6\frac{1}{2}$ x $8\frac{1}{2}$	"	6.50	18 x 22		II X	14	44	24.00
10 X12		8 x10	"	7.50	18 x 22	. "	14 x	17	"	27.00
11 X14	66	61x 81	"	7.50	18 X 22	6.6	17 X	20		30.00
11 X14		8 x10	"	9.00	20 X 24	**	II X	14	"	26,00
11 X14	" 1	O XI2	4.6	14.00	20 X 24	**	14 X	17	4.4	29.00
14 X17		8 x10	**	14.00	20 X 24	=	17 x	20	4.6	32.00
14 X17	" 1	0 XI2	**	15.50	20 X 24	**	18 x	22	44	35.00

These backs are made to order. When ordering, please give exact drawing of back, showing size of same, and dimensions of rabbet.

Backs with Sliding Carriages, to fix Portrait Cameras

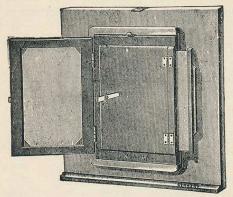
INCLUDING ONE PORTRAIT HOLDER



SIZE OF				SIZE OF	CAMERA.			Tax No.
HOLDER.	10 X 12	11 X 14	14 X 17	16 X 20	17 X 20	18 x 22	20 X 24	22 X 27
8 x 10	\$17.00	\$22.00	\$25.00	\$30.00	\$31.00	\$32.00	\$35.00	\$40.00
11 X 14			29.00	32.00	34.00	35.00	40.00	45.00
14 X 17	THE PARTY			Water !		40.00	45.00	50.00

Attachment for Cabinet____

Size Dry Plate Holders



To be attached to any of our Portrait Cameras, and fitted with single holders 5x7 or 4½x6½. The low price of the single holders enables photographers to purchase a large number. These can be loaded before beginning work, and can be used as required, doing away with the annoyance of filling the regular large and heavy holders while the sitter is waiting.

Price with *one holder* and ground glass for \$x10 Cameras, - \$ 8.00 " " " " " " " " - " 11x14 " " - " - " 10.00 Extra Holders, 4½x6½ or 5x7, \$14.50 per dozen.

Extra Parts of Cameras

SIZE.	*Portrait Holders.	Rubber Bellows for Outing Cameras.	Cone Bellows Rubber or Leather for View Cameras.	Bellows for Prize Portrait.	Front Boards for Camera Portrait.	Front Boards for View Camera.	Wood Slides for Portrait Holders.	Extra Acid Ground Glass.	Rubber Slides for View Holders.	Canvas Carrying Cases with Straps.	Canvas Cases to carry 6 Holders.
4 X 5		\$1.50	\$2.00			\$.50		\$.10	\$.20	\$2.00	\$2.00
4½x 6½		1.75	2,50			.50		.15	.25	2.25	2.25
5 x 8		2.00	3.00			.60		.20	.30	2.50	2.50
6½x 8½	\$7.00	2.50	3.50	1		.60		.25	.40	2.75	2 7 5
8 x10	8.00	3,00	4.00	\$6,00	\$.80	.70	\$1.00	.35	.50	3.00	3.00
10 X12	11.00	1.1.	5.00	8.50	.90	.80	1.25	.50	.75	3.50	3.50
11 X14	15,00		7.00	10,00	1,00	.90	1.60	.75	1.25	5.00	5.00
14 X17	20.00		10.00	12,50	1.25	1,00	2.00	1.00	2.00	7.50	7.50
17 X20	24,00		16.00	15.00	1.75	1,25	2.50	1.35		10.00	
18 X22	27:00		20,00	18.00	1.75	1.50	2.75	1.65		13.00	
20 X24	32.00	1307	24.00	22.50	2.00	1.50	3.25	2.00			

*Portrait Holders for 11x14 and larger sizes are with Curtain Slides. 8x10 Curtain Slide Holders, \$10.00. Tripod Screws up to 8x10, 25 cents; above 8x10 50 cents.

"EUREKA"

Dry Plate Holders for Portrait Cameras



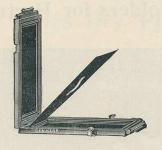
THESE Holders are made to take one plate. The small sizes up to 8x10 inclusive, are supplied with a full set of rabbeted kits and with stiff rubber slide. The longer sizes have sliding frames to accommodate any plate, and have a curtain slide of a new design, which moves with special ease and facility.



5 x7 for Victoria Camera	\$6.00	II	X14,	with Curtain Slide	\$15.00
6½x8½	7.00	14	XI7		20.00
8 x10	8.00	17	X20		24.00
8 x10 with Curtain Slide	10.00	18	X22		27.00
IC X12	11.00	20	X24		32.00
IC X12	11.00	20	X24		32.00

Book Holders







THE English model. They open in the center like a book, where the plates are inserted. All sizes have Rubber Slides.

5	x 7	each,	\$2.00	II x 1 each,	\$ 7.50
5	x 8		2.00	14 X J "	10.00
61/2	x 81/2		3.00	17 X 2	12.50
				18 x 22	15.00
10	X 12		6.00	20 X 24 "	17.50

The Gennert "XTRALITE" Holder



THESE Holders are well known for their lightness and thinness. They are absolutely light-tight, and fogging is impossible. The full width of the plate can be exposed, and in the length the entire plate, except inch on end. This cannot be done in any other holder and is the nearest approach to a full-size picture yet attained.

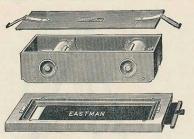
Each side is made of one piece; not strips glued together. They are stronger, lighter and better than many so-called light-weight holders.

Following are the prices of Holders with Rubber Slides:

31/	x 4¼	each,	\$.90	5	x	8	each,	\$1.40
4	x 5	6.6	1.00	61/2	X	81/2		1.70
41/	x 5½		CI.I	8	X	10	4.6	2.00
	x 6½		1.25	10	X	12	. "	3.50
5	< 7	**	1 30	II	X	14	"	5.00
	14 × 17					\$7.50		

52

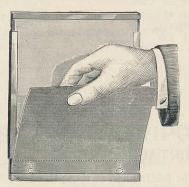
Roll Holders



SUPPLIED with an audible indicator, intermittent marker, a removable mechanism, and means for keeping the film perfectly flat. All parts of the Roll Holders are interchangeable and can be furnished when desired.

31/4	x	31/4	,	4	X	5,	4	41	4	x	5	1/2	,	aı	10	1	4	4	X	: (61	1/2				٠					 . (each,	\$10.00 12.50 16.00
43/4	X	61/2	,	5	X	7,		ar	ıd		5 >	ζ !	8.											 			. ,					6.6	12.50
61/2	X	81/2																					 100	 									16.00
8	X	10																			28											66	20.00
											ys																			en			

Barnett's Film Carriers

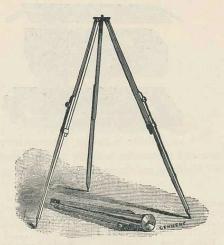


THE introduction of Films has called for a medium or carrier to handle them. The Film Carriers here mentioned enable the photographer to use films as flat as glass. The film is held at each end.

Sizes and prices as follows:

3 1/4 x 4 1/4 pe	r doz	. \$1.30	5 x 7per	doz.	\$2.00
4 X 5	4.6	1.40	5 x 8	**	2.00
4 1/4 × 5 1/2	**	1.40	6½ x 8½	66	2.25
414 x 6½	"	1.60		**	2.50

Extension Tripods



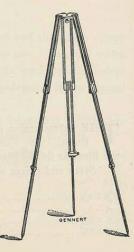
THIS Tripod combines firmness, strength, rigidity and lightness. The legs are attached permanently to the brass top, and can be quickly adjusted in length by sliding the lower portion out and clamping same by means of the brass screws, shown in the illustration. The Tripod is one that gives satisfaction in every way. Following are the prices:

No.	I,	for	4 ×5	Cameras		-		=		-		-		each,	\$3.00
"	2,	66 5	5 x8		-		-		-				-	"	3.25
6.6	21/2,	(5/2×81/2							-				66	3.50
64	3.	8	3 xio	44	-				-		-		-	**	5.00

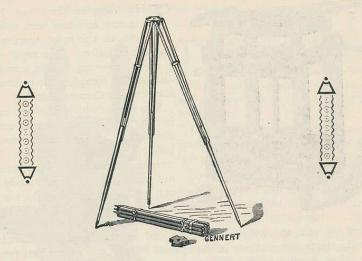
THE PORTABLE TRIPOD

COMBINES the folding and sliding principles, and occupies, when packed in its most compact form, only one-third of its own length. It is strong and rigid.

Price	•	-	•	-	-	\$4.00
-------	---	---	---	---	---	--------



The Featherweight Adjustable Tripod



F all Tripods on the market this will be found the lightest and most genteel. Its sliding legs allow of a speedy adjustment to unevenness of the earth's surface, without endangering its rigidity of support so desirable for successful photography. They are beautifully made from the best straight-grained pine wood, selected with the utmost care, all metallic parts being made of brass, including clamping screws and rings. The top is made of hard wood in three layers, to prevent warping, splitting, etc., and is covered with billiard cloth to prevent marring the camera.

Adjustable Tripod, for Cameras 1/4 to 61/2x81/2, each, \$3.75.

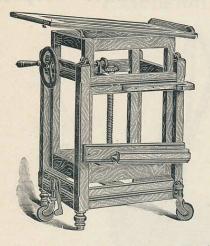
PROFESSIONAL TRIPODS

FOR STREETMEN, FIELD PHOTOGRAPHY, ETC.

Made of well seasoned ash wood, folding legs being fastened to the Camera by spreading them apart with an iron rod recessed in one side of upper half of the leg. This tripod is especially adapted to professional work, being absolutely rigid.

8 x 10,	6 inch top	, -	-			-	-	\$3.50
11 X 14,	8 "	10	-	-		-	-	5.50
14 X 17,	or larger,	12 inch	top,		-	- E-	-	6.00

Simplex Camera Stand



THE Simplex does not belie its name and has been selected by us as the most worthy of our recommendation. Two small castings, a screw, two cog-wheels, a small shaft and handle complete the mechanism of the Simplex Camera Stand.

The screw, which is about 22 inches in length, is set in a small casting at the bottom of the outside base, and is held down in its position by the weight of the Camera; the screw does not work up or down, merely revolving, and is connected at the top with a small gear wheel held by a set screw. The shaft is connected to another gear

wheel at one end and at the other end to the handle. Turning the handle starts the machine on its upward course, one gear wheel revolving,

the other causing the screw to work its way through the threaded casting and raises the stand to the desired height.

......

SIMPLICITY, STRENGTH AND SYMMETRY COMBINED

THE BEST CAMERA STAND EXTANT

.....

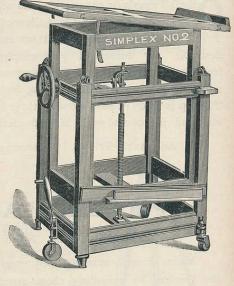
No. 2. For 8x10 and 10x12 Cameras, 30 inch bed, - \$15.00

No. 3. For 11x14 Cameras, 40 inch bed, - - 19.00

No. 4. For 14x17 to 17x20 Cameras, 48 inch bed, - 21.00

No. 5. For 18x20 and 20x24 Cameras, 52 inch bed, - 29.00

No. 6. For 25x35, 60 inch bed, 33.00



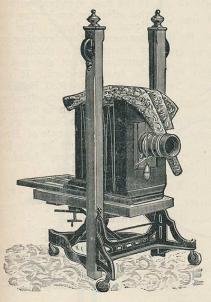
Magic Casters

For Backgrounds and Screens. Three-inch wood wheel, which does not drop out when raised off the floor.

Price, per Set of four....\$1.00

The Semi=Centennial Camera Stand

Patented January 7 and March 11, 1890.



THE Camera on this stand can be lowered within thirteen inches of the floor, this being lower than any other stand will admit of; and again it can be raised as high as necessary.

It is the only Camera Stand using Rubber Wheels as castors, therefore it is perfectly noiseless.

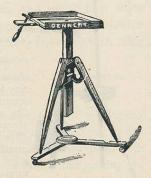
By the use of its coiled springs and a key you can make it *counter-balance any weight of Camera* from 8 x 10 to 14 x 17 inclusive.

It is very Strong and Rigid; is simple in construction, and will not get out of order.

Its neatness makes it an ornament for any studio.

Price, packed for shipment, \$25.00

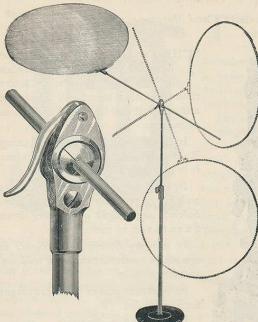
> Iron Centre Stand



This is now the favorite cheap stand. Being in walnut, and the iron centre bronzed, its general appearance is quite pleasing.

Price, for 1/4, 1 x 2, 4 x 4 and 8 x 10, . \$3.50

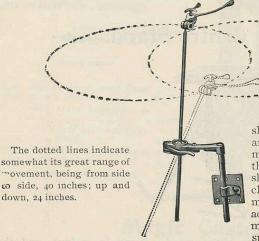
White's Photographic Head Screens



This style Head Screen has a circular base with the elevating rod telescoping into the base standard without the offset or projecting sectional Ball Joint. The adjustment of the elevating rod is made by a saddle and thumb-screw at the top of the base standard. It also has the Slide Rod Ball and Socket Joint with Binding Lever, as shown in detail in this cut. Side Shades can be used with this style of Head Screen, attached by the Improved Clamping Joint to the elevating rod.

No. 2 Head Screen, as illustrated, incl. box, - - - \$6.00
If with New Ornamental
Base, extra, - - - 25
Side Shades, extra, - - 25
Side Shade, with Clamping
Joint and Rod, square, - 2.75
No. 1. Head Screen, with
square side shade and ornamental base, boxed, - 10.00
do, without side shade, - 7.00

White's Photographic Chair and Head Rest



This appliance, as here shown, is for attachment to any Studio Chair or Settee, by means of the plate into which the supporting rod slides, as shown by cut; it has the ear clips with the wrist movement. The Ball and Socket adjustment, ample to accommodate any position of the subject, for a child or the tall-

est person, the movement being under control from the Sectional Ball mechanism. The Ear Clips have swiveling wrist movement as well as lateral or spread adjustment, same as with the Posing Supports.

Chair Rest, complete, nickel plated, \$8.00; extra Brackets, each, 50 cts.

White's Posing Support



THIS Posing Support has the applied principle of the Improved Combination Slide Rod, Ball and Socket Joints. It is adapted to the smallest or tallest person, and for all adjustments or positions.

The Ear Clips of the support have swiveling wrist movement as well as lateral or spread

adjustment combined at one fastening, affording facility for either horizontal or vertical positions of the Carrying Rod.

A detachable Back Rest is provided which has all desirable facilities of adjustment easily and quickly handled.

The adjusting Joints are formed in the most perfect manner, especially adapted for giving accuracy and

uniformity of movement, and the Sliding Rods are of steel of accurate gauge, and are plated with nickel. The stand is nicely japanned with blue and gold line ornamentation.

Price of Style No. 1, complete,

\$20.00

Style No. 2 shows another form of the Posing Support of somewhat lighter construction. It has the Improved Swivel Clamping Back Joint with the adjustable Ear Clips of No. 1, but lacking the Ball and Socket Joint at top of base, which instead is provided with telescopic movement, and handle for convenience in moving about the studio.







The Centennial Chair



A GREAT AID IN POSING

Drab Velveteen, Satin Edgings, 6-inch Fringe, -

\$22.50

Head Rests



White's Posing Chair

WITH BABY HOLDER AND ALL THE ATTACHMENTS

THE BACK SUPPORT and the HEAD REST have the ADJUSTA-BLE EXTENSION MOVEMENT in Ball and Socket Joints, whereby action in all directions is controlled by a single lever, or one point of fastening. When this fastening is released, the back (or head rest) is free to be moved to any place through its entire range. A touch of the lever in the opposite direction instantly holds the parts in the desired position, without varying the adjustment in the slightest degree.

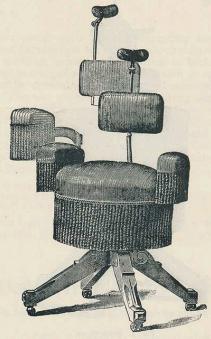


Fig. 1.

The BACK has placement of greatest range in all directions. The cushion of the back is reversible, and the Head Rest removable, thus affording ready convertibility for use as a leaning stand, or for an elevated seat for children, with or without the Baby Holder attachment.

The ARMS have placement from the greatest requirements of elevation down to the level of the seat. They can be brought together at the back as a sofa, or separated and placed parallel at the sides of the seat. They can be brought inward and forward, to make a small seat for a child, and can also be spread and extended beyond any requirements of use.

The HEAD REST is adapted in all these changes to give support without appearing in view. All parts are removable.

One remarkable feature is the BABY HOLDER. The waist clasps are adjustable to height and around the infant; they may be covered with ribbon or otherwise concealed. The arms and hands of the infant thus retain freedom and grace. By a convenient attaching bar and clamp joint the Baby Holder is fixed to the back cushion, the latter being adjusted to horizontal position to serve as a seat. (See illustration, Fig. 1.)

The Baby Holder and its head rest are detachable and can be easily removed when the chair is used for ordinary sittings.

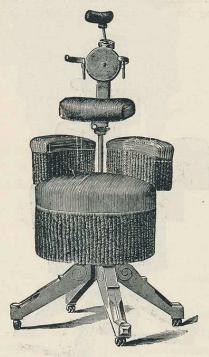


Fig. 2. Both Views.

In this Posing Chair there are no shaky, clumsy or loose joints. All firmly held by neat, accessible, easily operated fastenings; a mere touch of the hand suffices to effect all necessary changes and adjustments.

Price o	f Posing	Chair,	with Iron Base, complete,	including	packing,	\$43.00
**	**	6.6	with Baby Holder,			35.00
		640	without Arms,	"	6.6	35.00
4.1	- 14	4.4	without Arms and Baby Holder	, "	- 11	27.00
44	34		without Arms and Head Rest,	**		27.00

If Iron Base is not wanted, \$1.00 less.

62

The "Queen" Poser







THIS is a most useful chair for the operating room, as it comprises in one piece of furniture a very desirable chair for posing for bust pictures, together with an ornamental arm rest or back, of a new and tasteful design, for figure posing of subjects of any size or age. The back rest can be moved instantly, up or down, forward or backward, or given any desired angle, at will. The seat revolves on an elevating screw, enabling the positionist to get any desired height of seat, as well as to turn his subjects at will. The semi-circular back is new and rich in design, and the whole constitutes just what is essential in every well-regulated operating room.

Cut No. 1 represents the Plush or Velveteen Cover and Large Adjustable Arm for general posing. Cut No. 2 represents the Raw Silk Cover and Adjustable Back Rest.

Raw Silk Finish,	complete,	each		-		_		_		-	\$12.50
Drab Velveteen Finisl	1. 11		1927		0.23		150		2.5		
Mohair Plush Finish		- "									14.50

If wanted for bust posing only, we will deduct for the large semi-circular arm: Raw Silk, \$2.50; Velveteen, \$3.00; Plush, \$3.50.

Baldwin's Baby Holder

Not a Baby CHAIR, but a Baby HOLDER, that can be placed in a chair, on a table, &c.



THE Holder is arranged with flat base—no legs. A tilting arrangement, under the seat, allows the adjustment of the seat to any angle desired. In the slot in the back is a spring clamp, in which the operator may force a portion of the child's dress or clothing, thereby holding the baby firmly in position without further assistance. Arms can be adjusted to either or both sides by an adjustable clamp.

Without arms, in plain or figured terry	CC	ver,	jap	ann	ed	trim	min	gs	-		each,	\$8.50	
Without arms, in drab velveteen cover	, n	ickel	l-pla	ited	trii	nmi	ngs		-	70	66	10.00	
Arms, with attachments, either style	-	-	-	-	-	721					-6.6	1.00	

"Regina" Posing Chairs

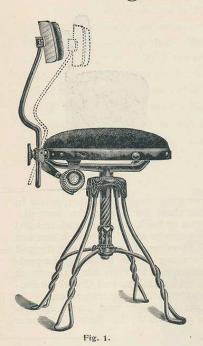




Fig. 2.

THESE excellent chairs for Bust Posing have revolving seats that can be lowered or raised, and a back that can be horizontally and vertically adjusted.

Price, Antique Copper Finish, Oak Seat and Back......\$8.00



COMBINATION QUEEN POSER and Baldwin Baby Holder

Patented

This cut represents the Complete Combination with baby holder in position.

Price, with back support, circular arm and baby holder with one arm:

Raw Silk Finish	ach,	\$18.50
Drab Velveteen Finish		21.50
Mohair Plush Finish	**	24.50
64		

Spring-Back Posing Chair

FOR BUST PICTURES

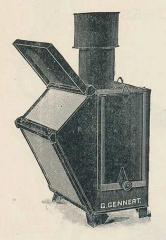


THIS Chair has a strong, durable, hard-wood frame well finished, and is upholstered either in plush or leather as desired. The back is adjustable slightly in height, and can also be moved forward and back. This chair will be found substantial and desirable for bust pictures.

Price—Stationary Seat,	-	-		7.	-	-			47	\$10.00
Revolving Seat, -		74	-	-	-	-	-	-	-	12.00
			65		74					

GENNERT'S

"Marvel" Dry Plate Lantern





THE ONLY
REALLY
EFFICIENT
LANTERN
ON THE MARKET

A A A

THIS Lamp is the combination of the desirable features of all Darkroom Lamps, and has three distinct forms of light entirely under
the control of the operator and interchangeable at will. The shape of the
Lamp forms a natural hood, the upper part of which is also fitted with a
glass (orange or ground) for examining negatives by transmitted light. It
has an improved Argand central draught burner, and will burn for hours
and never get hot.

Price...... Each, \$4.50

G. G. Lamps



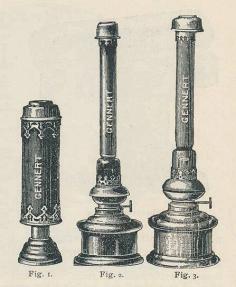
These lamps are provided with oil illumination, with three-colored glasses, and a hood for the protection of the eyes.

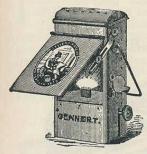
Price, each.....\$1.50

"Ruby" Dark Room Lamps

ANY small and compact lanterns allow the passage of actinic light rays. The "Ruby" lamps will be found safe in this respect. They have chimneys of ruby glass, which are perfectly non-actinic, and have at the top and bottom of the chimney safety draughts, permitting the air to circulate, without allowing white light to pass. They are supplied with candle, oil or gas illumination.

						n-actinic himneys
Can	dle La	amps,	Fig.	I,	\$1.15	25 cts.
Oil	Lamp	s, small,	Fig.	2,	1.25	25 cts.
		large,	Fig.	3,	1.60	30 cts.
Car	Lami	ne			0.50	an ote





Pocket Lanterns

A cheap Lantern, useful when a moderate amount of light only is required.

Price......60 cts.

Triangular Folding Lantern

A N excellent little lantern with candle illumination, one pane of non-actinic ruby glass, and a good draught. It is triangular in shape, is finished with black lacquer, and has a handle attached to the back. Not the least important feature for tourists is that the lantern can be taken apart completely and can be packed into a neat flat box only one inch high.



The Prosch Storage Flash Lamp



THE KING OF FLASH LAMPS

S safe to use, and gives a large, intense flame of strong illuminating power. It is only $4\frac{1}{2}x_3$ inches in size, but will light the largest home rooms, while two to four are sufficient for ordinary public halls, church and theatre interiors, etc.

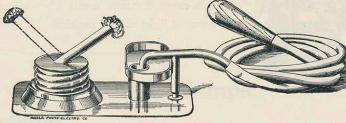
The cylindrical storage chamber holds about 100 grains of pure magnesium powder. A rubber tube with mouth-piece is attached to nozzle of lamp, and when blown into drives the powder up through the fanshaped projector tube into the alcohol flame, producing a broad flame

which presents an illuminating surface of nearly 100 square inches.

The full charge of powder may be consumed in one prolonged flash of several seconds, or repeated short flashes may be made. A handle can be inserted either side of tube nozzle and lamp held in the hand, or it can be secured to a stand-rod by binding screw on side. A reflector is attachable over nozzle, and secured by binding nut shown.

Price of Lamp, made of brass and nickel plated - - - \$5.00

New Sun=Flash Lamp



Patent applied for

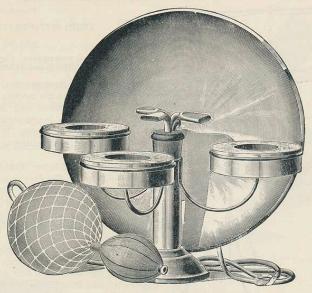
THE Sun-Flash Lamp is a very compact and effective instrument for igniting Flash Powder. It is so constructed that there is no possibility of igniting the powder prematurely, as the wick can be revolved to the position shown by dotted lines in the cut, while the lamp is being lighted, removing the flame entirely from the powder in the pan. Contrary to the principle used in other flash igniters, the powder is blown into the flame, thus thoroughly diffusing it, and giving a greater illuminating surface.

It is so compact and cleanly that it may be carried in the pocket.

It is safe and convenient in use.

It is absolutely instantaneous in action.

Sun-Flash Lamp, with tube and mouthpiece complete, Price, \$1.25.



A CONTINUOUS OR INTERMITTING LIGHT.

Is so constructed that the duration and intensity of the flash can be exactly regulated and governed. It has a perforated flame box which intensifies the heat of its alcohol flame, and a concave adjustable reflector. It can be held in the hand or flashed from a distance with equal facility. In the "Standard" we have produced a lamp which meets the requirements of the advanced amateur and professional photographer, at as low a price as is consistent with good workmanship.

The rubber bulbs and hose used on these lamps are the best black rubber,

and do not crack or soil like white rubber.



"The Little Giant" Flash Lamp

Patented SAFE, CONVENIENT POWERFUL

Embodying the same principle as the Standard Lamp, and producing a number of

intensely brilliant flashes from one charge.

It is the best of all small lamps on the market. It uses pure magnesium only.

68

McCollin's Professional Flash Lamp

USED WITH BLITZ PULVER \$25.00

FOR PORTRAITS, LARGE GROUPS INTERIORS and STAGE PICTURES

The most practical professional lamp on the market. Can be carried around and set up anywhere. Is operated with rubber bulb and tubing. It has a reflec-

tor and diffusing screen; either or both can be used or omitted.

It is made of spun brass, nickel plated, and weighs about 10 lbs. For convenience in carrying it is made partly telescopic and partly collapsable; in that position it occupies a space 3 ft. long and about 10 inches in circumference, and can be quickly taken apart and put together again.

The Blitz Pulver is spread along a trough or pan 3 feet long by 11/2 inches wide and ignited by blowing the flame from four Alcohol lamps directly into the Blitz Pulver, thereby insuring absolute combustion.

The lights are arranged at equal distance from each other, along outside edges of trough or pan, and when necessary flame can be prolonged an instant or so, by igniting Blitz Pulver from one of the end jets only.

As there is no limit to amount of Blitz Pulver that can be used, but regulated as to intensity of light by the amount you set off.

By means of the telescopic rod the light can be raised to an elevation of 8 or 9 feet and lowered to within 3 feet of floor.

This machine takes the place of daylight on dull days and a skylight on bright days.

FLASH LIGHTS

TO facilitate "Flash Light Exposures," and make them possible for those who have not a flash lamp, this most convenient form, that of our so-called "Flash Lights," has been prepared. They consist of small pasteboard boxes containing a quantity of Flash composition, the latter differing according to the size of cartridge used, and supplied with a fuse. The composition is perfectly safe; the only precaution necessary is to prevent its coming in contact with fire. To set off a "Flash Light" uncover it and touch a



lighted match to the fuse, taking care to shield the eyes from the bright light. Flash lights are put up in boxes containing each one-half dozen; they come in four different sizes, which are to be used according to the size of the room in which pictures are to be made, and according to the amount of light desired.

Size No. 1, per package of $\frac{1}{2}$ doz., 25 cts. | Size No. 3, per package of $\frac{1}{2}$ doz., 60 cts. No. 2, " No. 4, " " 75 cts.

Flash composition containing a high percentage of pure magnesium, 1 oz. cans, 40 cts.; r lb. bottles, \$6.00

Improved Retouching Frames

ate ate ate ate ate

AN be set up as in the accompanying cut, or folded neatly and compactly into a box. They are supplied with adjustable mirror, ground glass and box to hold crayons and retouching leads.

Price, for 8x10 and under.....\$3.00 " IIXI4 " 7.00

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NEGATIVE BOXES

PRICE, WITH LOCK AND KEY, \$1.00 EXTRA.



Holding 24 plates, for use in dark rooms to prevent plates from being light-struck, and enabling the operator to safely preserve his negatives; also used for the transportation of negatives.

Holding	24	31/4 × 41/4	plates,	each,	\$.60	Holding	24	61/2	X	81/2	plates,	each,	\$.90
	24	4 x 5	14	**	.65		24	8	X	10	44	**	1.10
66-	24	41/4 x 61/2	- 6 6	6.6	.70	44	24	10	x	12	**		2.00
11	24	5 x 7	4.6		.85	4.6	12	11	x	14	**	166	3.00
4.4	24	5 x 8	**		.85	.1	12	14	x	17	- 64		3.50

Lantern Slide Boxes, to hold 50 Lantern Slides, \$1.25. Special Sizes to order.

The Thornton=Pickard Patent





SHOWS AT A GLANCE WHICH PLATES HAVE BEEN EXPOSED







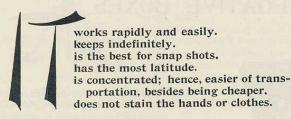
PREVENTS TWO PICTURES BEING TAKEN ON ONE PLATE

Price of Recorder, 20 cts. each

Ready Solution of Metol-Hauff



It is conceded by all photographic authorities that the keeping quality of Metol excels all other developers. Hence, no one-solution developer can be as advantageous as Metol.





It is the best and cheapest one-solution developer for both amateur and professional.

Price, per 8 oz. Bot., Making 30 ozs. Developer, \$0.35

......



Metol Cartridges

The Traveler's Boon Companion . . .

should be adopted by every amateur living in the country, where supplies are not always at hand, as they are always ready and keep forever. Don't buy tabules and cakes put up under mysterious names,—but Metol Cartridges, which are put up by the inventor of Metol after his especial formula, and work to perfection.

Price	per box of 6, making	100	ounc	es de	velop	er,	\$1.20
	Single Cartridges,	-	1		* **		.20

METOL=HAUFF



Lately conceded by the press, eminent photo chemists and the leading dry plate makers, to be the greatest improvement in developing of the age. Its results are simply superb, and, being so thoroughly under control of the operator (on account of its great latitude), any desired result can be obtained.

Formulæ recommended by Dr. Andrew Pringle, of London, for a one-solution portrait developer:

Water10	ounces.
Metol75	grains.
Sodium Sulphite, Walpole 1	ounce.
Potass Carb, Walpole 1	

Mr. G. CRAMER, of the G. Cramer Dry Plate Works, says: "There is no developer like Metol, and I especially recommend its use with the Cramer Dry Plate."

CRAMER FORMULA

Water	25 ounces
Sulph. Soda Walpole	21/2 "
Metol	3 drams
Bicarbonate Soda	1 ounce

Mr. L. F. Hammer, of the well known Hammer Dry Plate Company of St. Louis, says: "I cannot recommend Metol too highly; it is, in my opinion, the most advanced of all toward perfection. We always recommend it for use with our celebrated Hammer Dry Plates, and it gives the best satisfaction.

HAMMER FORMULA

-1	THE TOTAL OF THE PARTY OF THE P
	No. 1.
ı	Metol50 grains
ı	Water10 ounces
	Sodium Sulphite, Walpole 1 "
	No. 2.
	Potass Carb 1 ounce
	Water 10 ounces
	To develop for normal exposures, take
	three parts No. 1 to one part No. 2. For overtimed plates, use 10 to 20 drops of a 10 per cent. solution of Bromide Potass.
	To per centi boration of Bromitee I office.

You should adopt Metol, and cast aside all else, as it is the **guiding** star of latter-day developing. No new developer has ever been so strongly recommended by the highest authorities, and so rapidly adopted by photographers.

. . . Price List . . .

Metol, per ounce	\$0.75
" ,	
"	5.25
"	10.00
Amidol. Amidol is a developer similar but not equal to	
Metol Price, per ounce,	.75
Glycin, for wet plates and process work. For density and clearness	
this developer is superior to all others; even Metol. Per ounce,	.75
Theocarbamid. Stain removing salt and fixing salt, for Chloride	
Aristo Papers Price, per ounce,	.75

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Lantern Slide Plates

CRAMER'S-EASTMAN'S-CARBUTT'S

DISCOUNT ON QUANTITIES

Per dozen	55 cts.
-----------	---------

Transparent Celluloid Films for Negatives

IN SHEETS

31/4 x 41/4per	dozen,	\$0.55	5 x 8per	dozen,	\$1.55
4×5	66	.80	6½ x 8½	"	2.10
4½ x 6½	4.6	1.10	8 x 10		3.00
5 × 7	**	1.40			

IN CONTINUOUS ROLLS

OF TWENTY-FOUR TO SIXTY EXPOSURES

31/4 × 41/4,	Width,	31/4	inche	s	At the	rate of	\$0.50 pc	er dozen.
4 x 5,	6.6	4	3.4		44	**	.75	•
31/4 × 41/4,		41/4			44	4.4	.50	44
4 X-5.	"	5	"		4.6	4.6	.75	**
5 x 7,	"	5			64	6.6	1.50	4.6

Ferrotype Plates

Eggshell, blackper	dozen,	\$0.40	per case	of 200	sheets,	10 X 14,	\$5.00
Empire Eggshell, black	6.6	.50	"	**	4.6	**	6.00
Pennsylvania, tinted	11	.60	"			11	7.00
Pennsylvania, black	4.6	.60	200				7.00
Monarch, Glossy	4.6	.75			6.6		10.50
Tinted, "	4.6	.75	"	4.6	6,6		11.00

Color Screens for Orthochromatic Photography

2½ x 2½each, 75 cts.	3½ x 3½each, \$1.00
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Squeegee Ferro Plates

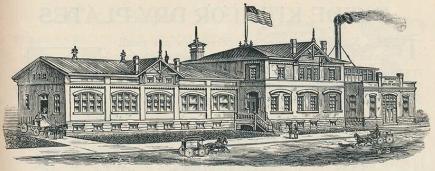
FOR SQUEEGEEING ARISTO PRINTS

10 x each, 10	Per dozen	85 cts.
Per Box of 200	 \$12.00	

G. G. Pyro and Soda Developer

This Developer, made according to the most approved formula, may be regarded as the "Standard Pyrogallic Acid Developer." It works with almost any brand of plates, and gives uniform satisfaction.

Price	for	Two Solutions	75 cts.
**	11	Pyro alone	45 ets.
	16.6	Soda	30 ets.
		74	Harry Contract



PLATES We carry in stock all brands of Dry Plates

Such as HAMMER, CRAMER, SEED, STANLEY, CARBUTT, ETC.

And are Prepared to Quote . . DISCOUNTS ON QUANTITIES

We Recommend As the most uniform, Clean and Rapid ... THE HAMMER DRY PLATES

			OF ALL BRANDS		
31/ X 41/2.	 er dozen	1, \$.45	8 x 10per	dozen, \$	2.40
			70 X 12		3.80
	 		11 X 14		5.00
	 66		14 x 17	6.6	9.00
	 66		16 x 20	4.6	12.50
	 	1.10	17 X 20	66	13.00
	 16		18 x 22		15.50
	 66	1.65	20 x 14	4.4	18.50
, , , , , , , , , , , , , , , , , , , ,	-		1 CIZEC		

	F	RENCH	1 SIZES	
9x12 cmper	dozen,	\$0.60	18x24 cmper dozen,	\$2.20
13x18 cm		1.10	24x30 cm	3.80

			" 1.1			" 3.80
		The above processing Cramer Isochromatic.	Carbutt Stripping.	all plates except the Carbutt Ground Glass	Carbutt Plain Opal.	Carbutt Ground Glass.
31/4 X	41/4	\$.55	M	Transparency.	\$.55	\$.60
4 x	THE PERSON NAMED IN	.80	\$.90	\$.70	.80	.85
41/4 X		.90	1.00	.95	1.00	1.15
41/4 X		1.10	1.20	1.15	1.20	1.45
5 X		1.40	1.45	1.40	1.50	1.80
5 X		1.50	1.65	1.60	1.70	2.25
61/2 X	81/2	 2.00	2,20	½ doz., 1.15	½ doz., 1.20	½ doz., 1.45
	10	3.00	3.20	1.65	1.75	2.15
IO X	12	4.50	5.05	2.50	2.65	3.25
II X	14	5.85	6.65	3.20	3.50	4.20
14 X	17	10.80	12.00	5.50	6.00	7.00
16 x	20	15.00	16.65			
17 X	20	15.60	17.30			
18 x	22	18.50	20.00			
20 X	24	22.00	24.50			

Hammer-Aurora Extra Fast; Seed's Doubly Coated Non-Halation Plates. 6 doz. in ease, per doz., \$ 3.00 31/4 x 41/4, 18 doz. in case, per doz., \$.55 | 8 x 10,

x 5.	12	44	* **	80	10 X 12,	2		64	4.75
x 5½,	12				11 X 14,	2	**	**	6.25
x 6½,	12	26.6	4.6		14 X 17.	2	6.6	44	11.25
x 6½,	12	66	**	1.20	16 x 20,	11/2	6.6	6.6	15.65
x 7,	12	4.6	**	1.40	17 X 20,	1 1/2		61	. 16,25
x 8,	12	4.5		1.55	18 x 22,	11/2		"	19.40
x 8½,	8	6.6	**		20 X 24,	I		**	23.75
x 10,	6	Ck	6.6	2.65					

INSIDE KITS FOR DRY PLATES

THESE Kits will enable the operator to use small plates in his large camera, and are made with due regard to lightness and strength. For dry-plate holders the Kits are thin, and are provided with metallic catches; for wet-plate holders the Kits are heavy and rabbeted.



				Rabbeted. Each.	Light Weight. Each.
Price for	4 x 5	Kits, 31/4	x 41/4 opening	28 cts.	25 cts.
**	41/4 x 61/2		x 5 "		25 "
	5 x 8	" 31/4	x 414, 4x 5, and 414 x 51/2 opening	35 "	30 "
**	61/2 x 81/2	" 4	x 5, 414 x 61/2, 5 x 7 and 5 x 8 "	35 "	30 ''
-66	8 x 10	" 41/2		40 "	35 "
**	10 X 12	" 8	x 10 opening	60 "	55 ''
	11 x 14				65 "

Specify whether you have Book Holders, or Gennert's "XTRALITE" Holders, or Portrait Holders.

Solid Glass Corner Kits OR SILVER WIRE CORNER KITS

3½ × 4½	3 .60	5 x 8\$.74
4 x 5	.64	6½ x 8½
		8 x 10
4½ x 6½	.67	IO X 12 I.25
5 × 7	.68	11 X 14 1.30

METALLIC LEADS

GILBERT'S Metallic Leads have long been recognized as the best, and will do what is claimed for them, namely: They will work easier, without scratching, and leave a greater deposit than any other lead manufactured; they possess no gritty particles.

G, hard; GG, soft; price, each	25 cts.
"Pearl" Metallic Leads, each	20 "
"Smith's" Points	

Odin's Retouching Solution

	The second second			200
Price,	per bottle	 	 	 50 cts

G. G. Ground Glass Substitute

The best substitute known; soft and fine grain.

Price,	per	bottle	3 .40
"	"	½ gallon	4.00
"	"	gallon	7.50

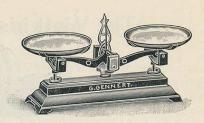
"Facile" Retouching Fluid

R. B. V. Scales

BRASS PANS AND SET OF WEIGHTS.

1	1b.	Capacity,	5	in.	Diameter	of Pans,	\$4.00
2	ee	6.6	51/2	"			4.50
4	**	4.4	6	"	**		5.00

(Grain, Scruple and Dram Weights, Extra.)





Scales on Stand

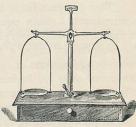
Brass Pans 3 inches diameter. To weigh up to one ounce. Can be raised and lowered by means of lever. These scales can be taken apart and packed away in the drawer of the stand.

Price, including weights, . . \$4.00

Army Prescription Scales

On Stand of ash, and metal parts nickelplated. Brass Weights up to two ounces. Scales can be taken apart and packed into the drawer of the stand.

Price.....\$3.00





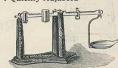
Hand Balances for

Drams and Grains

5	in.	Beam,	Paper	Box,	with	Weigh	ts	\$0.55
6	"		**	4.6		4.6		.70
5	"		Leather	Box,	6.6	4.4		.70
6	"		"			6.6		.90
7	"	6.6	Wooden	Box,	to wei	igh up	to I ounce	
		with	Weights.					1.25

New Patent Dispensing Scales No Weights ... Quickly Adjusted

It has a 9-inch nickel-plated beam, neatly mounted on a japanned iron standard. The front end of the beam weighs from 1 to 30 grains, the other end weighing from one-half to eight drams, or one ounce, and is very accurate. The pan is movable and has no side bar to interfere. We guarantee them in every respect. Price, \$5.00.

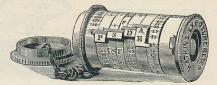


EXTRA SETS OF WEIGHTS

Dram, Scruple and Grain Weights, in pasteboard box	per set.	\$0.40
" Grain and %-oz, weights, in pasteboard box	4.6	.75
Brass Block Weights from 1-oz. to 1 lb (accurate).	6.6	3.00
Metric Block Weights, from 1 grain to 200 grains (accurate)		2.00
Iron Weights, from ½-oz. to 2 lbs		1.00

77

The Watkins Exposure Meter



PATENT APPLIED FOR

THIS instrument is something more than a mere "guide for beginners"; it is an exact calculator. The light which falls upon the subject is accurately tested by a simple mechanism provided for estimating the exposure from these data. It is applicable to all purposes.

No attempt is made to disguise the fact that a photographic exposure is a complex problem, depending upon at least four constantly varying factors, but the simplest possible means is provided for ascertaining the value of these factors and conditions, and the simplest possible mechanical calculator provided for indicating the exposure.

This compact little instrument is a combination of a bromide of silver actinometer, a chain pendulum for timing the exposure, and a set of calculating rings, each carrying a pointer, which, when set to the correct value for each factor, cause a fifth pointer to indicate the correct exposure in seconds or fractions of a second. It is beautifully finished in brass, and measures only 2½ inches long and 1¾ inches in diameter. It is not complicated in use, and the average time occupied in testing the light and adjustment of calculator is only 30 seconds.

In photographing interiors there is no need to wait to test the light, for it is easy to see by the instrument what diaphragm is needed to make the actinometer and camera exposures equal, and then the actinometer may be laid down in the worst lighted corner, and the lens left uncapped until the proper tint is reached.

Price, including Box of Bromide of Silver Paper and complete instruction for use, \$5.00 Extra Exposure Ribbon, each - - - - - - 25 cts

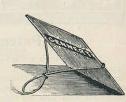


Plate Lifters (Thimbles)

Each, 15 cts.

Russell Negative Clasps

Each, 15 cts.

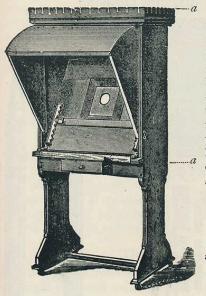


Pure Powdered Magnesium

As we are the largest importers of this article, we can make special rates on large orders.

In tin cans—per 1 oz. can In tin cans—per 1 lb can		 	. •	 -	\$0.40 4.25	
	78					

The Novel Retouching Desk



SUITABLE for any size negative under 25 x 30. It has a false top which can be pulled down to darken the space in front of the ground glass cutout. The bed on which the negative is laid can be set at any inclination to suit the convenience of the artist. By means of the slide rest, the negative may be moved up or down to any desired position. These desks are all made of hard wood, perfectly constructed, nicely engraved and well finished. They are an ornament to any studio.

Price,.....\$12.00.

The Novel Retouching Desk, same as above, without stand or drawer $(a \ a)$.

Price......\$7.00

Wixon's Retouching Table







THE illustrations show this novel table in its three changes: As a retouching stand and desk, as a plain table, and as a reading desk. This combination makes it extremely useful, as well as ornamental. The table is of mahogany, nicely finished, and covered with fine green billiard cloth. It will be a useful and handsome addition to any studio.

Price, complete.....\$15.00

Faber's Retouching Pencils, Holders, Leads

AND HARDTMUTH'S BROMIDE CRAYONS



We have the celebrated Faber Pencils only, which are the ones used by most artists and best known throughout Europe.

most artists and best known throughout Europe.
Holders
Faber's, including one Lead25 cts.
"Pencils" and "Leads"
Faber's, No. 6 B to No. 3 B, each, 12 cts.; per dozen \$1.25 " No. 2 B to No. 6 H, " 10 " 1.10 N.B—Be careful to state whether Lead Pencils or Leads only are desired.
Hardtmuth's Bromide Crayons
No. 1 to No. 5, each, 15 cts. Artists' Tubular Holder, including one Crayon35 cts.
Retouching Sets
Consisting of two dozen Leads assorted, one set Bromide Crayons, one Bromide Holder one Holder for Leads

The New Acme Water Colors



THESE colors are not liquid, but are put up in cups in moist form, eighteen constituting a set. Seven of these are surface, and eleven are tinting colors. They are more simple in application than liquid colors, more convenient and of greater permanency. The artist will also find them admirably adapted for drawing and painting on silk, satin or paper. There will be no trouble in burnishing over all the tinting colors.

The New Acme Medium

is a new article for use in connection with coloring. Instructions for use accompany it, with valuable hints on finishing in oil colors, transferring colored pictures to glass, etc. It is put over the picture before coloring, and gives it a polished surface, even without burnishing, and great brilliancy, power, and depth to the colors.

Following are the prices:

Large Box, 18 Colors (including palette)\$2.	20
Small Box, 6 colors, (amateur box)	00
New Acme Medium	35
Tinting Colors, 20 shades, separately, each	25

Guenther Wagner's Retouching Cylinders

For Retouching and Spotting, yielding a Glossy Surface when Dry.



White I. is pure white, showing bluish tint on black ground; White II. and III. show a slight tint, but appearing white on a dark ground.

Black I. has reddish tint, Black II. brown tint, Black III. is a jet black.

Albumen White Nos. I, II and III, Black Nos.	
I, II and III, each \$0.	50
Polished Mahogany Case, containing six colors,	
viz.: White I, II, III, and Black I, II, III,	
and a set of Fine Brushes 3-	00
These Colors can be used for Aristo Papers.	

INDIA INK. Lion Head.....per stick, 20 cts.



THE above is a fac-simile of a white-wood box, handsomely finished, cut O. G. shape, size 6 x 4 inches, containing twelve r oz. bottles of assorted colors, with instruction sheet (and brush), giving directions for use, and so simple that almost any one can color Photographs, Engravings, etc., thereby producing a most lifelike and splendid effect.

Price, per box..... \$1.50

Egyptian Chemical Colors



RIPLE strength.
Manufactured expressly for painting photographs, views, etc.; also used in connection with the Egyptian Transparent Compound for producing the Egyptian Crystal photograph, said to be the most life-like picture in the world.

Box No. 1 contains 13 one ounce (white glass) bottles of colors and one six ounce bottle compound for mounting photographs on flat or convex glass after they are colored. This is a box with nickel-plated lock and hinges, highly polished, and will color five thousand imperial size photographs. Price, \$6.00.

Box No. 2 contains 9 half-ounce bottles of colors. Polished wood box. Price, \$2.50. Box No. 3 contains 9 quarter-ounce bottles of colors. Polished wood box. Price, \$1.50. Single bottles 30 cents each.

Egyptian Transparency Compound, 75 cents per bottle.

Lantern Slide Mats



AND

Binding Strips

Lantern Slide Mats are to be had in about ten different styles and sizes. Oval, square, round and oblong shapes, price, per package of 25, 25c. Binding Strips, per pack of 50, 15c.

Coloring for Lantern Slides

Egyptian Art Colors can be used for this purpose, but an extra bottle of Medium is necessary. Price of this Medium, 50c.

Boston Lantern Slide Mats

Preferred by many to the regular Lantern Slide Mats, as it is claimed that better register is obtained; price, per 100, 50c.

Flash Compound

This is a combination of Pure Powdered Magnesium with an inflammable substance so that it can be set off with a match or fuse and no lamp is necessary for its use; in fact, it is dangerous to use it in a lamp. Price per ounce, 50 cts.; per lb., \$5.00.

Blitz Pulver

Blitz Pulver is used in almost all flash light machines, and is found to give the very best results. It cannot, however, be used in a lamp, as it would explode if confined. Price per ounce, 60 cts. Sun Flash Powder, per ounce, 50 cts.

Covering Glasses for Lantern Slides







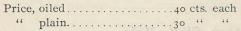
TO make neat and perfect Lantern Slides, thin and straight glass is necessary. The whiter the color of the glass, the better the slide will be. Our Lantern Glass "Crystal Brand" is considered the standard grade. We offer this very fine grade as follows:

31/4	x 4	per	dozen,	\$.30	31/4	x 41/4	per gross, §	33.50
							per dozen,	
31/4	x 41/4	per	dozen,	-35	61/2	x 8	"	1.20

Packed two dozen in a box.

Folding Negative Racks

ADE of Cherry Wood, adapted to take twenty-four plates, in sizes from 3 1/4 to 8 x 10.







Negative Preservers

THESE Preservers are made of 40 lb. smooth manilla paper, and protect negatives from dust, breakage and scratches. They facilitate accurate registering.

Prices are as follows:

					Pe	1000	Per 100						Per 1000	Per 100
For	31/	x	41/	Negatives	\$	2.25	25C.	For	61/2	X	81/2	Negatives	\$\$3.50	\$.40
	4						30c.	**	8	X	10	**	4.50	.50
	41/4						32C.	4.6	10	X	12	**		1.25
	5						35c.		11			**		1.50
	5		3.5			3.25	35c.		14	X	17	**		1.75

Ferrotype Envelopes

Bon-tons, pink flaps, pearl or buff cards, oval or arch openingper	1,000,	\$1.50
No IT Bon-tons (Nixon's), pink flaps, pearl or buff cards, oval or arch op'g,	6.6	2.00
No at Ron-tons pink flaps maroon cards, with gilt		3.00
No. 15 Cabinets, pink flaps, pearl or buff cards, oval or arch op'g	+ 4	3.50

· · Porcelain Glass · ·

3¼ x 4¼,per dozen,	\$0.75	6½ x 8½per dozen, \$2.25
4 x 5 "'	.85	8 x 10 " 3.00
4¼ x 6½ "	1.20	10 X 12 " 4.50
5 x 7 "	1.35	11 x 14 7.00
5 x 8 "	1.50	14 x 17 " 10.504
Unless otherwise specified, the	glass	will be sent finely ground on one side.

Green, Orange and Ruby Glass

Colors Selected for Dark Rooms

4 x 5pe	r light,	\$0.10	10 x 12pe	r ligh	t, .35
5 x 8		.15	11 x 14	6.6	.45
8 x 10	4.6	.25	16 x 20		1.00
Larger Sizes	š		40 cts. per square foot.	1	

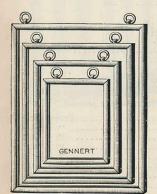
Orange and Ruby Fabric

Ground Glass

For Cameras, Transparencies, etc.

4 x 5, Sin	gle glass	e	ach,	\$0.10	10 x 12, Be	est Fren	che	ach,	\$0.38
5 x 8, Bes	t French		6.6	.15	11 X 14,	"		44	.50
61/2 x 81/2,					14 X 17,	"	double thick		1.00
8 x 10,	**		"	.25	18 x 22,	6.6		**	1.25

Transparency Frames



THE positive is introduced into the Frame by removing one of the sides of the Frame. A plate of ground or opal glass is generally employed in backing up transparencies. The Frames are made to hang either vertically (for portraits), or horizontally (for landscapes). In ordering specify which way they should hang.

4 X	5.	100							•		٠		00					 				 	eacl	1.	\$0.28	3
41/2	x	6	1/2						•														. "	-	.32	2
5	X	7					10				0												6.6		.32	2
5	X	8																	•						.34	
61/2	x	8	1/2						0×		•					٠.									.38	3
8	X	10	0.															 				٠.			.48	1
II	x	1.	4.											Š.	9							 	"		.90)
14	X	I	7.	1	2					4													3.6		T 05	

• • Glass Graduates

OUR Graduates are accurate in graduation. The lines go almost completely around the graduate, facilitating the correct measuring. The shape is such that they can be easily cleaned.



Minims,	1	drachm					 	 	Retail,	each,	\$0.20
4.4	2	**	 	 		 		 			.25
	1	ounce,	 	 		 	 	 	6.6	66	.20
	2	ounces	 	 				 	6.6	6.6	.20
	3	**	 	 		 		 	**		.25
	4	44	 	 		 • • •	 	 		4.6	.30
	6	**	 	 		 	 	 	6.6	4.6	-35
	8	44	 	 				 	6.6	6.6"	-45
- 4	10		 	 	• • • •	 	 	 		4.6	.50
	12	**	 	 		 	 	 		"	.60
	16	4.6	 	 		 		 		6.6	-75
and the same	24	- 11	 	 		 		 	ic		1.00
	32	//44	 	 		 		 	"	46	1.25
	18		 	 		 		 			2.00

Fine Glass Funnels

Extra Selected, Plain or Fluted, Specially Annealed Glass

			r quart	
1/2	"	.15	2 "	.30
I	**	.20	ı gallon	.50

Ribbed Funnels

THESE are strong moulded Funnels, with ribs on the inside to allow the liquid to run through the funnel with ease, and to prevent the adhesion of the filter paper to the glass. Filtration in this manner proceeds quicker than with any plain funnel.

Following are the prices:



	India	Rubbe	er Funnels	
pint	eacl	1, \$0.40	r pinteach,	

	Superio	or Conve	Glass	
For cov	ering fine pictures, a	nd especially f	or the Photochrome	e process.
size,	Oval or Round Co			
et size,		4¼ x 6	1/4	

Card Size.	Oval of Round Corner				 	 	 .51000	φ2.23
Cabinet size,		41/4	x	61/4	 	 	 . "	5.40
Promenade size,	Round Corners,	41/8	X	71/8	 	 	 . "	6.75
Panel size,	44	41/4	x	81/4	 	 	 . "	8.50
Bondoir size,		51/2	x	81/2	 	 	 . 61	11.00
Whole size,	Oval or Round Corners	, 61/2	x	81/2	 	 	 .dozen	1.25
- 1 -le cire		8	x	10	 	 	 . "	2.50
Double whole size,		10	x	12	 	 	 . "	6.75

Berlin Evaporating Dishes



WITH HEAVY RIM

No.	00.	diameter	16 in	ches,	containing	3	3 gallons\$4.2	
	0,	**	141/2		"	2	2 " 3.9	00
	I.		13	44		I	I "	80
(6.6)	2.		12	4.6		3	3 quarts I.	55
6.6	3.	66	II	4.4	4.6	2	2 " I.(00
6.6	4.		10		33	3	3 pints	90
	5.	**	9		4.6	2	2 "	75
6.6	6.	- 6 6	ś	6.6		24	4 0411000	65
	7.	44	7	4.4	44	16	0	60
44	8.		6	6.6				55
4.6	9,		51/2	11				50
				S	MALL SIZ	ES	S WITHOUT RIM	
								00

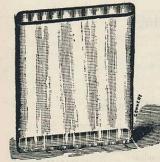
No. 11. 40c No. 14. 28c No. 17. 18c " 12. 38c " 15. 25c " 18. 15c

Bulb Funnels

Very useful for filtering, where cotton is used, as the bulb is filled with cotton, which makes a perfect filter.

Pints, 35c.; Quarts, 40c.; 1/2 Gallon, 85c.

Solid German White Glass Baths



We make a specialty of these Baths, having same made from our own moulds at the first factory in Germany. They are extra wide and thick and made of specially annealed flint glass.

Process workers would do well to correspond with us when desiring to purchase.



5 x 7	each,	\$0.95	In	wooden boxes	with supports,	each,	\$2.50
7 x 9	"	1.30	16	**	**	6.6	3.25
9 x 11		2.00	66	**	44	44	4.50
11 X 14		3.50		**	4.6		7.00
12 X 15		5.25	4.6		**	**	8.75
15 X 20		12.00	6.6		4.	4.6	16.00
16½ x 20½		19.00	46	**	44	6.6	24.00
18 x 22		28.00	"	**	"	"	35 00

Glass Mortars and Pestles







2½ inch	each, §	80.15	4 incheach,	\$0.35
		.20	5 " "	-55
3½ "		.25	6 " "	.85

Wedgewood Mortars and Pestles

Superior to Glass and very strong. We recommend them.

3	inch,	or	2	ounces.	 	\$0.35	5	inch,	or	16	ounce	s	'o 85	
4	"	44	8	"	 24.5	-55	6		5.6	32	6.6			



Hydrometers

Q

For Testing Silvering Baths, Hypo Baths, and Developer Baths.

Single Degree in Wooden Case

Part of the state of

	no roll		- 1 state	
Glass	Rods	for	Silvering	r

8 incheach	\$0.10	15 inch	. A. A	each \$0.20
12 " "	.15	18 "		
		each, \$0.		

Glass Patterns for Cutting Glasses

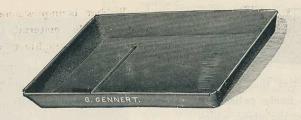
These Glasses are made of the best plate glass, and are exact. Special sizes made to order at proportionate prices.

Carte de Visite	\$0.30	5 x 8, or Boudoir	\$0.75
Cabinet	.40	6½ x 8½	1.00
		8 x 10	

Glazier's Diamonds

Ebony Handles	with Keyeach, \$	3.50
---------------	------------------	------

Eureka Japan Trays



Made of best sheet iron, doubly coated with black japan, and having wired edges.

No	. I,	4½ x 5½	\$0.20	No.	6,	12 x 16	(11 x 14	plates)	\$0.60
6.6	2,	5½ x 8½	.25	6.6	7,	15 x 19	(14 X 17	")	. 1.00
(6.6)	3,	7 x 9	.30		8,	19 x 23	(18 x 22	")	. 2.00
		8½ x 10½		"	9,	21 x 26	(20 X 24	'')	. 2.50
41	5,	103/4 x 123/4	.50		10,	25 x 35.			. 4.00

Porcelain Trays

Made on Special Moulds.—The Finest Goods.—Guaranteed Perfectly Flat.

5 x 7	shallow,	\$0.40	deep,	\$0.55	11 X 14s	hallov	v, \$1.90	deep	, 2.25
7 x 9	**	.60	1,00	.75	14 x 17		4.50	A 21-3	5.50
8 x 10	44	.75	4.6	.85	15 x 19	**	5.50	. "	6.50
10 x 12	44	1.10	**	1.40	19 X 24	* *	9.00		12.00

Papier Mache Trays

Our Special "Black Swan" Brand

31/4 x 41/4	ach,	\$0.25	101/4 x 121/4	each,	\$1.60
4½ x 5¼		.30	12 x 1434	4.6	2.00
5½ x 8½		.50	1434 x 181/2	**	2.75
7 X 9	"	.65	16 X 20		3.25
81/4 x 101/4		1.00	19 X 24	"	5.50
23 X 27.					

Celluloid Trays

Shallow, light, with ridges in bottom. Handy for travelers. Made in amber, red and green.

41/4 x 51/4 for 4 x 5 plates	\$0.50	7 x 9 for 6½ x 8½ plates \$0.85	
5½ x 8½ " 5 x 8 "	.72	8½ x 10½ " 8 x 10 " 1.15	

Gennert's Hard Rubber Trays



HARD Rubber is unquestionably the most suitable material for the manufacture of photographic trays, as it withstands the action of acids and

chemicals better than any other substance. These Hard Rubber Trays are made on finely polished mandrels, and are deep, preventing loss of

developer over the edges, which is unavoidable in most trays. The trays can be used for developing, fixing, silvering, toning, washing, etc.



41/4	x	51/4	dee	p	\$.40	12 x 16	dee	p	\$2.25
5/4	X	7/4	**		-55	15 X 19	4.6		0 75
5/2	X	81/2	**		.65	18 x 22	4.		4.50
7	X	9	**		.80	19 x 23	6.6		5.00
8 1/2	Х	101/2			1.00	21 x 26			7.00
1034	X	1234	6.6.		1.50				

As the price has been the only objection to the general adoption of rubber ware, these trays, offered at the present low prices and being practically indestructible, will find preference to those made of japanned iron, agate iron, porcelain, wood, papier maché, and the like, all of which they fully supplant.



Ebonite Trays

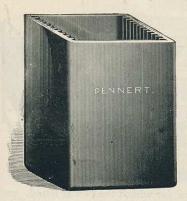




THESE Pressed Rubber Trays, as the annexed cut shows, have depressions in the bottom, which serve as a support, but mainly allow of removing the plate from tray, and save one-half the quantity of the developer necessary when ridges are employed. These trays are only made shallow.

No.	I,	41/2	x 51/2.	and 4 x 5 \$.28	No.	3.	6½ x 8½	\$.72
66	2,	5	x 7	and 5 x 8	66	4,	8 x 10	1.08

Hard Rubber Fixing Baths



THE only correct position for plates in the fixing bath being the vertical or standing position, these baths have been introduced to guard against the many failures resulting from fixing in trays. The further advantages of this bath are: First, that it is made of hard rubber, the material which best withstands the action of photographic chemicals and general wear and tear; second, that it is smooth and can easily be kept clean; third, that it holds one dozen plates, thus saving many trays; fourth, that it has a ridge at the bottom which keeps the plate above any sediment that may collect there; fifth, that the edges of the film will not be scratched in the groove; sixth, that it takes up little space; seventh, that it is by far less liable to break than dishes; eighth, that it is comparatively cheap.

For 31/4 x41/4, or l't'rn-slide plates.	\$1.75	For	61/2 x 8 1/2 T	late	s	\$3.00
" 4 x5 plates	2.00	6.6	8 x 10	66		3.50
" 4½x6½" "					½ dozen	
" 5 x7 "	. 2.25	"	14 X 17	"	"	10.00
" 5 x8 "	. 2.50					

Hard Rubber Plates

FOR MAKING SHUTTERS, DRYING PAPER NEGATIVES, SQUEEGEEING PRINTS, ETC.

4×5, 5×7,		inch thick		6½x8½, 1 inch thick	
EVS	66	44	20C.		

Hard Rubber Dippers

No.	3.	size	4x 5,	eacl	h\$	0.35	No.	61/2	, size	10X12,	each	 30.55
							**	7,	**	12X16,	4.4	 .60
	5,		7X10,			.45		8,				
	6,	44	9XII,			.50	"	9,		17X20,		 1.10
	0.10				No to size	TOX 24.	each	200	\$I.	60		

RUBBER APRONS

Made of thin, strong gossamer cloth to protect the operator against stains from solutions used in developing.

Price, in pasteboard box, each.....6oc.

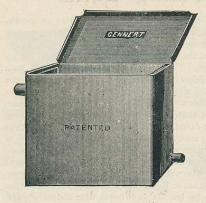
Rubber Focusing Cloths

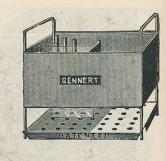
Light cloths, one yard square.

Extra heavy cloth for lining dishes, 75 cents per square yard.



Negative Washing Boxes





THESE Boxes are adapted for the size for which the box is listed, and for all smaller sizes down, but for only one size at a time. The plates are thoroughly washed by a constant change of water, which, entering the aperture at the top, is leaving the opening below, as shown in the figure. This ensures speedy washing.

Following are the prices:

31/4	x 41/4.			е	ach;	\$1.60	5 x 8 a	nd sm	aller siz	ese	each,	\$2.10
1	x 5 ar	id smal	ler size	S		1.75	61/2 x 81/2	"				2.15
41/4	x 61/2	i			64	1.90	8 x 10	4.	**		"	2.25

Jerome B. Secor's American Songster

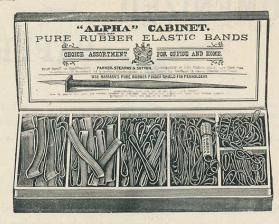


Stafford's Powder Spray

THIS little device speaks for itself. It consists of a rubber ball into which an atomizer is fixed. Powder is placed in the ball and is applied to the hair in a spray by squeezing the ball.

Each Spray is supplied with a fine and delicately perfumed powder, ready for use, nicely boxed and accompanied with full directions for working.

THE "ALPHA" CABINET Pure Rubber Elastic Bands



CHOICE assortment for Photographers, of pure Rubber Bands—over five hundred, in eleven sizes, from one to three inches long, and from one-sixteenth to one-half inch in width. It also contains an "Ink Shield" for the pen, which saves your fingers, desk, books and paper.

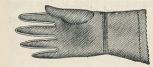
Price complete.....each, \$1.25

India Rubber Bands CHEAPER THAN CORD

RUBBER GLOVES

Just the Thing to Keep Silver or Pyrogallic Acid off the Hands

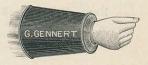
Per Pa

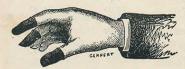


Artists' Cuffs

(For photographers use), to prevent soiling the sleeves and cuffs while developing negatives.

Price, per pair......60 cts



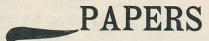


Alpha Finger Tips

To Protect Fingers while Developing,

In sets of three, per set 15 cts.; per doz. sets, \$1.50

ALBUMENIZED____





SINCE the introduction of Aristotype Paper, an army of demonstrators have been at work trying to convince the photographer that Albumen Paper is a thing of the past.

Letters in our possession show that after three years of Aristo Paper prestige, the most prominent photographers in the country have come to the conclusion that Aristotype Papers are a failure, and are again unpacking their silvering outfits and using albumenized papers. The demand for Albumen Paper is now so largely on the increase that we predict for it before many months its former prestige, even in a more intense degree.

The question of "What paper to use" can hardly arise, as three-fourths of the Albumen Paper used in the United States to-day is "Eagle Brand," and "Eagle Brand" Albumen Paper is conceded by the leading authorities to possess the heaviest and richest coating, the best gloss and finish. Only selected Rives raw paper is used, and this is albumenized close to the edge so that 16 Cabinets can be cut from a sheet. The first quality is most scrupulously selected and is absolutely superior to any other brand.

PRICES

EAGLE, LION, S. AND M., AND OTHER BRANDS

Extra Brilliant, 18 x 22, pink, pearl, pensé, new rose, white, First choice, 10 kilo:

Per Ream, \$40.00	Half Ream, \$20.50	Quarter Ream, \$10.50	Per Dozen \$1.10
Second choice, 10 kilo 30.00	15.50	8.00	.85
Extra Brilliant, First choice, 20x24, 52.00	27.00	14.00	1.40

Extra Brilliant, First choice, large sizes: Pensé only

 25×35 , \$6.00 per dozen, 35×46 , \$10.00 per dozen, 27×41 , \$7.50 per dozen.

Cross Swords = = = Dresden Celloidin Paper



WILL NOT . .

** Curl, Crack
or Peel

The Best and Easiest

. . . Working Aristo Paper

No Hot Water or Alcohol Bath Used Use New Process Negative Varnish and New Process Combined Bath in conjunction with this Paper - - -

 >	. s. P	RICE	LIST	.4.4		
	ozen	Gross	Size		Dozen	Gross
	0.15	\$1.10	5 x 8.		. \$0.45	\$4.00
3 x 4 (Mantello).	.15	1.25	51/2 x 73/2	(Paris Panel)	50	5.00
3½ x 3½	.20	1.60	61/2 x 81/	2	65	6.00
31/4 × 41/4	.20	1.60	7 x 9		75	7.00
4 X 5	.25	2.00	8 x 10		90	8.00
4½ X 5½	.25	2.00	IO X 12.		. 1.25	12.00
37/8 x 51/2 (Cabinet).	.25	2.00	II x 14.		. 1.50	15.00
31/8 x 51/8	.25	2.00	14 x 17.		. 2.25	24.00
4 x 6	.25	2.00	16 x 20.		. 3.00	32.00
5 × 7	.40	3.50	18 x 22	½ Dozen, \$2.00	4.00	40.00
20 X 24, ½	Dozen,	\$2.25	1 Dozen	, \$4.00 I Gross, \$	44.00	
	Spec	cial size	es cut to	order		
Seconds (ca	binets o	nly)		per gross, \$1.60		

Kosmos Dresden Collodion Paper . . .

Will not Curl, Crack or Peel. The Best and easiest printingout paper in the market. No hot water baths used. . . .

	-: PRICE	LIST :	
Size Dozen	Gross	Size Do	zen Gross
3½ x 4½\$0.20	\$1.20	5 x 8\$0	.40 \$3.00
4 X 5	1.50	5½ x 7¾ Paris Panel	.45 3.40
21/4 x 33/4 C. de V	.75	6 x 8	.50 3.75
3 x 4 Mantello	1.00		.55 4.10
*37/8 x 51/2 Cabinet25	1.35		.65 5.25
3% x 5%	1.35	7½ x 9½	.70 5.75
4 x 6	1.50	8 x 10	.75 6.00
4¼ x 6¼	1.75		.10 9.00
4 ¹ / ₄ x 6 ¹ / ₂	2.00		.25 11.20
4½ x 6½	2.20	14 x 17 1.	.85 18.00
5 x 7	2.65	16 x 20 2.	50 24.00
5½ x 7	2.75	18 x 22 ½ doz. \$1.75 3.	00 30.00
5½ x 7½	3.00	20 x 24 ½ doz. 2.00 3.	.00 33.00
*STANDARD CABINET SIZ	ZE. This	size will be furnished on all or	rders for

*STANDARD CABINET SIZE. This size will be furnished on all orders for "Cabinets," when no special size is mentioned.

Special sizes cut to order.

Seconds, per hundred (Cabinets only), 75c. | Proofs (Cabinets only) 50c.

NO special negatives are necessary for this paper, as it gives excellent prints with either Aristo or Albumen negatives.

New Process Aristotype Negative Varnish should be used to varnish all negatives from which aristotype paper is to be printed.

Use "New Process" Combined Bath with this paper.



The Finest Gelatine Aristotype Paper

We recommend the use of New Process Combined Bath with this paper.

31/4	x 41/4, per	dozen, \$.20 p	er gross,	\$1.75	8 x 10,	per dozen,	\$.90	per gross, \$8.00
4	x 5,	"	.25	4.6	2.00	IO X 12,	4.6	1.25	
4	x 6,	6.6	.25	66	2.00	11 X 14,		1.50	
5	x 7,	44	.40	**	3.50	14 x 17,	**	2.25	
5	x 8,		.45		4.00	18 X 22,	"	4.00	
61/2	x 8½,		.65	4.6	6.00	20 X 24,	**	4.00	
7	x 9,	"	.75	***	7.00				

Cabinets, 3% x 5½, per dozen, 25 cts.; per gross.....\$2.00 Proof Paper, for Proofs only, per gross...................... 1.20

DIRECTIONS FOR USING



SUPERIOR

Sensitized PAPER

This rapid printing-out paper can be worked in any of the various toning, fixing or combined baths recommended for any brand of gelatine paper, and with far superior results. We recommend "New Process" combined bath.

PRICE LIST

	Doz.	Gross		Doz.	Gross
21/4 x 33/4 Carte de Visite,	\$.15	\$.75	6½ x 8½	\$.55	\$ 4.10
3 x 4 Mantello	.15	1.00	7 X 9	.65	5.25
31/4 × 41/4	.20	1.20	7½ x 9½	.70	5.75
*37/8 x 51/2 Cabinet	.25	1.50	8 x 10	.75	6.00
37/8 x 57/8	.25	1.50	IO X 12	1.10	9.00
4 × 5	.25	1.50	II x 14	1.25	11.20
4 x 6	.25	1.50	14 x 17	1.85	18.00
5 x 7	-35	2.65	16 x 20	2.50	24.00
5 x 8	.40	3.00	18 X 22 1/2 dozen, \$1.75	3.00	30.00
51/2 x 73/4 Paris Panel	.45	3.40	20 X 24 1/2 " 2.00	3.00	33.00
6 x 8	.50	3.75		-	

*Standard Cabinet Size-This size will be furnished on all orders for "Cabinets" when no special size is mentioned.

> Special sizes in gross lots cut to order, at proportionate prices. 4 x 5 (trimmed) and Cabinet Seconds per hundred, 80 cents.

EAGLE SATIN PRINTING OUT SENSITIZED PAPER

SINCE the recent great dissatisfaction with Aristotype Papers this Paper has been introduced and supplies a long-felt want. It has all the

advantages of Aristotype and Albumen Papers combined, as it can be manipulated with the ease of Aristotype Paper and gives softer and more permanent results. It is ready for immediate use and keeps for any reasonable time.

			PRICE L	IST.			
	Doz.	Gross				Doz.	Gross
31/4×41/4	\$.15	\$1.20	7x 9		-	\$.60	\$5.25
4 X5	.20	1.50	8x10			.75	6.00
37/8×51/2	.20	1.50	IOX12		-	1,10	9.00
4 x6	.20	1.50	IIXI4			1.25	11.20
41/4 X61/2	. 25	2.00	14X17		-	1.85	18.00
5 x7	.30	2.65	16x20			2.50	24.00
5 x8	-35	3.00	18x22	1/2-doz.,	\$1.50	2.75	30.00
6½x8½	.50	4.10	20X24		2.00	3.00	33.00

Special sizes to order. Directions in every package.

Should be used by every consumer of Aristotype Papers

New Process Toning and Fixing Bath

This Bath has been tested in connection with all the leading brands of Aristotype Papers and has given in all cases highly satisfactory results. It is made of

Walpole New Process Chemicals

Although the ingredients are of the purest quality the bath costs no more than any other bath, and gives equal and clean results, as the chemicals used are always of the exact same strength and standard of purity. The composition never varies and the quality is always "WALPOLE," assuring absolute

Per 10-oz. bottle, \$.50 " 20-oz. " 1.00



Rochester Star Paste

A paste especially made for photographic purposes, free from lumps, free from any ingredients that could injure prints. A paste that does not turn sour or mould.

Always Ready. Always Handy. Always Clean

Price	per	1/2-pint	jar				-		-		-		25	cts.
"		pint		-		-				-		-	40	4.6
4.6	44	quart	6.6		-		-		-				75	14
		pint bot	tle	_		-20		929		-		-	35	4.6
6.6	6.6	quart "			-		-						70	11

THE BEST PAPER FOR AMATEURS . . .



Per doz	Per gross	Per doz.	Per gross
31/4×41/4\$.15	\$1.50	6½x8½\$.60	\$6.00
4 X5	2.00	8 x1070	8.00
41/4 x 61/230	3.00	20 X24 4.00	48.00
5 x7	3.50	37/8×5½ Cabinets30	1.70
F 78 25	1.00	4 x6 " 30	1.80

Use New Process Combined Bath with this Paper.

Ferro-Prussiate or Blue Print Paper

Size	3½×4½	per	package of	tw	o dozen s	heets,	\$.16
	4 X5		(6	4.4	6.6	6.6	.20
4.6	4½ x6½	44	"	4.6	4.4	44	.30
	5 x7			44	4.6		-35
4.4	5 x8		44	44	6.6	4.4	.40
6.6	6½x8½			6.6	6.6		.56
	8 x10		4.6	4.6	6.6	44	.68
	II XI4			44		44	1.50
	18 x22		"	4.6	44	4.6	3.00

W. & C. Ready Sensitized Platinotype Paper

Always Fresh. Always on Hand.

BLACK or SEPIA

31	(X4)	4pe	er dozen, \$.30	6½x8½per	dozen,	\$1.25
			6.6	.60	8 x10	44	1.85
			**	.80	II XI4	6.6	3.75
			i.	.95	18 x22	6.6	7.20
19920			21x26		\$0.00 per dozen		

Developer for Platinotype Paper, 8-oz. can, 35c.; 16-oz. can, 6oc.

N.B.—Platinotype Paper must be kept in a preserving tube or ice box until used.

Best Round French Filtering Paper

No.	19,	per	rack of	100	sheets,	20C.
	25,	6.6	4.6	**		25C.
	33		**	6.6		35C.
44	40,	6.6	4.6	4.6		46c.
6.6	45,	6.6	6.6	6.6		52C.
66	50,	6.6	6.6		6.6	62c.
	Square White Filter, 17x21, per quire, 25 of	ts 1	ner ream	\$3	75	
	" Grev " " 20		,,	2.		

Clemons' Plain or Salted Papers, Extra Quality

Within the past few years prints on salted paper have been coming more and more into use. They yield a mat print which, in the opinion of many, is by far more beautiful than a print on glossy surface paper, and which closely resembles a platinum print.

Pric	e for	Rives	Plain	Salted	Paperper dozen,	85 cts.
		Saxe		6.6	_ ii	80 "
						50 "

Ariston Sensitive Litmus

Supplies a long-felt want. This is the best and most sensitive litmus paper yet introduced and is made especially for use in toning baths. It is packed in glass tubes, convenient for use. Both colors, red and blue.

Steinbach Roll Papers

We carry on hand a heavy stock of these papers, for solar printing and plain silver printing, in all weights and surfaces.

Medium weight, per 10-yard ro										
Heavy weight, " "		 	 		 			 3	.00	
In original rolls of about 500 y	ds.	 	 	2000			 	 	.60 per	1b.

Plain paper, for platinum enlarging, same price.

Special quotations on large orders.

Baryta Coated Papers

For the manufacture of Aristotype Papers (Gelatino-Chloride and Collodio-Chloride). A large stock of different grades is always on hand and manufacturers are promptly furnished at special rates.

		dozen,			Grade A.	\$.80	Grade B,	\$.70
44		1/4-ream,		4.6		7.50	"	6.50
4.6	4.6	1/2-ream,				14.50	- "	12.50
	66	ream,	6.6		6.6	28.00		24.00
"	"	25-yd. ro	ll, 25 in	. wide,		.10 per y	7d. "	.08 per yd.

Special quotations on large orders.

New Process Negative Varnish

After long experimental work we have discovered that by a new process a negative varnish can be made to which Aristotype Papers will not stick. It can be dried hot or cold and gives a waterproof surface. Every user of Aristotype Papers should be a user of New Process Varnish. Put up in bottles with pouring lip.

6-ounce bottle,	\$.40	1-quart bottle,	\$1.90
r-pint "	1.00	r-gallon "	6.50

Nepera Bromide Paper Heavy Rough Heavy Rough Thin Smooth

Nepera Platino-Bromide Paper



Eastman's "A, B, C," or Enamelled Bromide Paper Eastman's Platinum Bromide Paper P. M. C. Bromide Paper, Nos. 1, 2, 3, 4,



CUT SHEETS

3½ x 4½per	dozen,	\$0.25	10 X 12	per dozen,	\$2.25
4 x 5	11	.40	11 x 14	- "	3.00
41/4 X 51/2	**	.50	12 X 15	14	-3-35
4½ x 6½	4.6	- 55	14 x 17	4.6	4.50
5 x 7	**	.65	16 x 20		6.00
5 x 8	6.6	.75	17 X 20		6.40
6½ x 8½	4.6	1.10	18 x 22		7.50
8 x 10	4.6	1.50	20 X 24		9.00
	Other	sizes i	n proportion.		

If ordered in packages of less than one dozen, an extra charge of 25 cents will be made for packing.

IN ROLLS OR ON PATENT SPOOLS FOR ENLARGING EASELS

IO	inches	wid	eper	yard,	\$0.56	20 i	nches	s wid	eper	yard,	\$1.12
II	6.6			11	.62	22	"	- 66			1.24
12	6.6			4.6	.68	24	6.6	4.4		6.6	1.35
14	- 64			ec.	.79	25	66			66	1.40
16	4.6				.90	30	4.6			"	1.68
18	6.6	4.4		66	1.00	31	6.6	6.6		4.4	1.75
			No	t less t	han to	vards	s on a	SDO	01.		200000000

DISCOUNTS FBOM THE ABOVE PRICES: Nepera, 40 per cent.; Eastman's, 25 per cent.; P. M. C., 331/3 per cent.

Assorted Papers

Blotting Paper. "PRIZE" Brand, especially prepared for photographic	
purposes, soft and loose, free from chemicals injurious to prints. 140 lbs. to the ream, per dozen sheets, 19 x 24, 45 cts.; per ream	\$14.70 12.60
Gummed Paper	
Per dozen sheets, 17 x 11, 20 cts; per gross sheets, 17 x 11	2.00
Orange Paper. (Post-office Paper.)	
Per dozen sheets, 20 x 24, 25 cts.; per ream	6.00
Ruby Paper, entirely non-actinic.	
Per sheet, 15 cts.; per dozen sheets	1.50
American Cepa Skin Paper,	
Per dozen sheets, 15 cts.; per ream	3.50
Onion Skin Paper. (Best imported.)	
Per dozen sheets, 20 cts.; per ream	5.00
Joseph's Paper.	
Per quire, 20 cts.; per ream	3.00
Black Needle Paper. Suitable for Lantern Slide, Mats and Binders.	
Per dozen sheets, 25 cts.; per ream	8.00

Carbon Tissue and Materials

IN ENGRAVING BLACK, SEPIA, BROWN, RED CHALK AND TRANSPARENCY BLACK

THIS Carbon Tissue is prepared with colors that are not affected by the light when the picture is finished, and yields absolutely permanent prints. Carbon prints are acknowledged to be the best and most permanent photographs.

Prices are as follows:

4	x	5 F	er dozen,	·Tissue,	25	cts.	Transfer	Paper,	15	cts.	Flexible	Support,	20	cts.
5	х	8		**	45	"	4.6	6.6	25	6.6	44	**	40	4.4
61/2	x	81/2	44		70		4.4	5.5	35	6.6	4.4		65	
8	x:	0		"	85	44		66"	45		**		75	

Transparency Black, 25 per cent. additional.

Rolls of 12 feet by 30 inches, \$3.00. The same, Transparency Black,		40	_	\$4.00
Single or Double Transfer Paper, per Roll of 32 square feet, -	-	-		1.35
Flexible Support, per Sheet, 20 x 24,			-	-35

PHOTOGRAPH CARDS



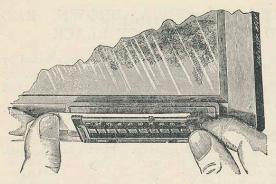
For Mounting. Amateur Styles and Sizes.

S	IZE	es	For	Pri	ints	Dark	Edges, Colors, dozen	Light	Edges, Colors, dozen	Dark	Edges, Colors, lozen	Gilt E Light (per d	Colors.
31/2	x	41/2	31/4	x	41/4	10	ets.	8	ets.	16	ets.	14	cts.
41/4	X	51/2	4	x	5	12	6.6	10		18	i.	15	6.6
41/4	x	61/2	Ca	bii	iet,	15		12	4.6	22	6,6	17	**
5	x	7	5	x	7	18	"	15	11	28	**	24	
5	X	8	5	x	8	23	4.6	17		32		28	
51/4	x	81/2	5	X	8	23	6.6	18	**	34	**	32	6.6
61/2	x	81/2	61/2	x	81/2	29	66	24	**	44	4.4	36	6.6
7	x	9	61/2	X	81/2	32	**	26	4.6	50	44	45	4.6
8	x	10	8	x	10	36	"	30	**	65	44	55	**

White or										-		-		per	dozen,	18	cts.	
	"			6.6	6.6	8	X	IO	-		-		-		46	25	""	
66		6.6	1.6		11	II	x	14				-			11	40		

On application we furnish, without charge, our complete Catalogue of Cards.

The Printing Clock, or Photometer



THE little instrument here shown is one of the handiest inventions of the day for printing large work or carbons, bromides, chlorides, etc.; it is an invaluable assistant to any one engaged in making large prints, as it enables the printer to make absolutely uniform prints.

You cannot afford to be without one of these handy instruments, and if you only save one large print by its use, you save more than the price.

No more large prints spoiled by shifting in the frame, dust falling on the paper while print is being examined, stretching of the paper during printing, and too light or dark prints.

Price, only\$2.50 Per dozen\$20.00

THE PHOTOSCRIPT

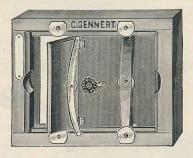


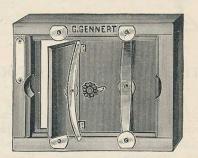
Is an ingenious apparatus by means of which the operator may title and number his negatives in plain type, with little or no trouble, directly on the film surface; the letters and number so produced are clean-cut and white, and may be put in any corner or margin desired.

Price\$3.75

Printing Frames

OUR Printing Frames are well shellacked and finished, and have washers under the springs, to prevent wear and tear; the springs are riveted to the frame, and a tally is provided for counting the number of prints made. Backs are cut with a flange, preventing the access of light to the print. Made of the finest hardwood throughout; they will outlast any others. They have the new ratchet tally, by which both the number of prints to be made and those already made are controlled at one and the same time.

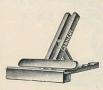




31/4	x	41/4	flat	 .36	One	-qı	ıarter	Size,	deep	08 .75
4	x	5		 .38	41/4	x	61/2			
4	X	51/2		 .40	5	X	7	4.6	0.0	
41/2	x	61/2	v.	 .42	5	Х	8	4.4	6,6	
5	x	7	66	 .50	61/2	х	81/2	6.6	**	
5	X	8	61	 .52	8	x	10	4.6		I.00
61/2	x	81/2	**	 .60	10	x	12	66	-	1.35
8	X	10	11	 .75	11	Х	14	6.6	4.6	2.25
10	x	12	"	 1.00	14	x	17	. 6.6	6.6	3.00
11	X	14		 r.So	17	x	20	64		4.50
14	X	17	4.4	 2.40	18	x	22	**	"	5.00
16	X	20		 3.00	20	x	24	4.6	**	5.50
17	x	20		 3.00						
18	x	22		 4.00						
20	x	24	"	 5.00						

LARGER SIZES MADE TO ORDER

Printing Frame Easels



This simple contrivance will be found a great convenience for raising the printing frame to the angle of the sun's rays, and should be used by every photographer and amateur. The cost is but a mere trifle.

20c. each, \$2.00 per dozen.

Trimmers —



THESE useful instruments are by far more practical than knife, scissors, or punch. They can be used in connection with glass patterns.

Prices are as follows:

Straight Cut Trimmers.....each, 20 cts.
Circular " 30 "

THE EXCELSIOR PHOTOGRAPHIC TRIMMING BOARD

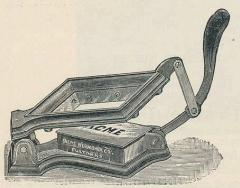
This cutter is designed to supply a long-felt want for a cheap, serviceable article. The knives are made of the best grade of steel and are guaranteed for wear. Trims prints perfectly square, and the edges clean and smooth.



PRICES

Trims sizes up	to 8 1/2	inches	 	\$4.00
	10		 	5.00

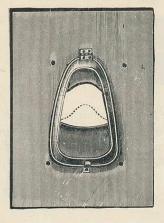
THE ACME CABINET PRINT TRIMMER



This machine supplies a great need, viz.: a quick, accurate and durable trimmer. It is the only trimmer that cuts a whole sheet of paper, all sides at once. It is self-sharpening. It is made in two sizes: No. 1, 3¾ x 5¾ and No. 2, 3½ x 6 inches.

Price, each\$12.00 Special Sizes to order, \$1.00 extra.

The Common Sense Vignetters



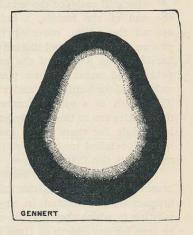
A RE made of pasteboard, with central opening, which can be adjusted to any size or shape, smaller than the full opening by means of a sliding metal sheet. The front has a spring which serves to retain Vignette Paper for diffusion of the light.

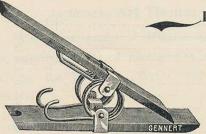
Price,	each\$0.20
4.4	per dozen 2.00

Weymouth's Vignette Papers

NINETEEN sizes are now made, suiting all dimensions of pictures, from a small Carte figure to Victorias, Cabinets, whole size, etc. They are printed in black for ordinary negatives, yellow bronze for thin negatives, and red bronze for still weaker ones.

Total Di Dillio I Di Delli Wethat Chies.
In Envelopes, containing one each, Nos. 1
to 15\$1.00
Nos. 1, 2, 3, 4 and 5, for Cartes, per doz 50
Nos. 6, 7, 11, 12 and 13, for large Cartes and Victoriasper doz7
Nos. 8, 9, 10, 14, 15 and 15½ for Cabinets and 4 x 4 size
Nos. 16, 17 and 18, for Cabinet and half sizeper doz. 1,2





LOCKWOOD'S CLIP

3 inches long, 5% inch open.

Per	dozen.	 	 .\$.35

U. S. Photo Clip



THE LATEST AND CHEAPEST SERVICEABLE PHOTO CLIP IN THE MARKET

HIS Clip is exceedingly strong, being made of hard wood, with heavy

wire springs, and is provided with a hook. The quality of stock
employed in its construction is of the best, and the price lower than for

any other article of its kind.

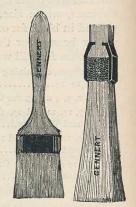
Price per dozen, 25 cts.; per gross.....\$2.50

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, 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 into the head (see sectional illustration), is also firmly secured.

It is evident that this method of constructing brushes is superior to the old modes. These brushes are not effected 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.



Prices are as follows:

Camel's	Hair,	1	inch	Widt	thea	ch,	\$.38
	4.6	11/2				"	.57
**		2		44			.75
**		21/2	66			"	.95
**	6.6	3	66	**			1.35
Bristle,	Paste,	1	4.6			"	.20
		11/2	"			"	.25
"		2	66	"		"	.35
"		21/2		44		"	.45
"	44	3	66	64		"	.50

Flat Bristle Brushes

		11/2					V - 01 3	6.6	20	
		, -								,
	6.0	2		**		 	• • • •		30	, i
	"	21/2	4.6	**		 		**	38	
	"	3		**		 		6.6	45	
1		31/2				 		**	55	,
0				Camel's						
	Width.	1/2	inch.				6	each,	10	c
	Width,	1/2	inch,	Camel's			€	each,		
	110000000000000000000000000000000000000	I		metal bound			6			
	**	I I ½	"	metal bound	1, 5, 5, 5, 5	 			20 25	
5	"	I I ½ 2	"	metal bound	1.1	 		**	20 25 30	
5	"	I I ½	66 66 66	metal bound	1.1	 		**	20 25 30 40	
	"	I I ½ 2	"	metal bound	1.1	 			20 25 30	ct

Artists' Spotting Brushes

HE FINEST	RUSSIA SABI	LE PINE POINTS
-----------	-------------	----------------

Nos r to	6each,	10	cts	per dozen, \$1.00	
1405. 1 10	0	12	66	11	
Nos. 6 to	12	12		1.25	

Gold and Silver Saucers

Gold	or	Silver,	small, each	10	cts.
**			medium, " I	13	"
**	6.6	44	large, " 2	20	**

Gihon's Opaque

Dela	12000	cales					en ate
Price,	per	cake		 	 	 	 50 Cts.

Liquid Gold and Silver

	FOR (GILDING	AND	SILVERING PICTURE FRAMES, ETC.		
William's	Liquid	Gold, per	bottle		65	cts.
	ii.	Silver,	"		45	"
Dent's		Gold,	11		30	44

Japanese Art Tissues

The finest quality of Mikado silk paper for covering fronts of photographs and preserving the burnish. Eight very pretty designs.

Price per 1,000..... \$2.00



DOUBLE ROLL PRINT MOUNTER



THIS style of mounter, originated by us, is the best print mounter ever made. Beware of imitations having cast iron sides or handles which break easily and are hard to work.

Handsomely shellacked handle and nickel plated sides—best grade of rubber.

Price fo	or 6	inch s	size\$0.75	
6.6	8	111	, , , , , , , , , , , , , , , , , , , ,	
th		4.6		
	12	4.4	I.00	

Rubber Squeegees

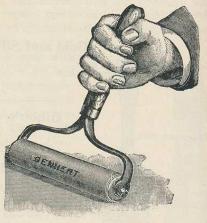
Soft Rubber, set in polished wooden handles.

Price,	6	einch		 1							.each,	\$0.40
1.6	8											.50

Squeegee Single Roll Print Mounter

Covered with three-sixteenth inch of fine rubber. Prevents the slipping of the prints while mounting.

Price, 81/2	inches wid	le \$0.	75
" 12	"	I.	



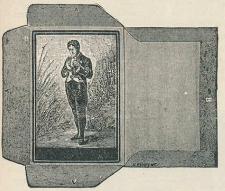


Cut=Outs or Medallion Masks

Carte de Visite, ovalper	dozen,	\$0.15
Cabinet, oval or arched	**	.25
6½ x 8½, oval	14	.30
Por Poolsons of	**	1.00

Lavette's Envelopes

AVETTE ENVELOPES are made of fine manilla paper, with a board on each side. The written letter is placed in the envelope, the



photograph on top of it, as illustrated in the annexed cut, and then the cover B is folded over and sealed down with the gummed flaps A A A.

This envelope is the only rational protection for photographs in the mails. It goes as a letter and requires ordinarily 4 cents postage.

Price, per 100.....\$1.00

MAILING ENVELOPES

Carte de Visite, Manillaper	1,000,	\$1.25
Cabinet, No. 140, "Boudoir, No. 140, "Boudoir, No. 140, "		1.50 2.50
Cabinet, No. 150, white glazed		3.75
Boudoir, No. 150, " "	6.6	3.50
Additional per 1,000 for printing Name and Address on Mailing Envelopes		.75

MAILING BOXES

Made of heavy pasteboard with smooth surface. Price, including printed Name and Address of purchaser:

Cabinet Enclosures or Individual Envelopes

Made of thin tissue paper, pink or white, open at one end to admit a single photograph. With Aristo prints, which scratch so easily, enclosures are an absolute necessity.

Price	per	1,000\$1.50
	"	5,000 6.50

Additional per 1,000 for printing Name and Address on enclosures, 75c. per 1.000

THE NEW PATENT ODORLESS LAMP STOVE

IS SAFE, CLEAN AND ECONOMICAL

ONSTRUCTED on entirely new and scientific principles, with double ventilated tank, which makes it perfectly safe and prevents the oil from heating, thus avoiding danger and the disagreeable odors arising from the use of all other stoves.

The casing or jacket to which the burner is attached, is separated from the oil reservoir as shown in cut. With a constant current of cold air passing between the jacket and reservoir to feed the flame, it can be

burned at its full capacity all day without heating or smelling. Will boil two quarts of water in fifteen minutes; has the largest burner of any lamp stove in the market; has a larger reservoir and holds more oil and will burn twice as long as any other lamp stove with a single burner. We will warrant it to produce twice the amount of heat, without smoking that is possible with any other lamp stove of this style everyet produced.

Queen Kerosene Oil Stove

Made in the latest improved pattern. Each one has a water basin for keeping the tank cool that holds the oil.

No.	0.	I	Burner,	11/2	inch wick	 \$1.00
"		1	4.4	3	4.6	
	2.	2		3	6.6	 2.25
	21/2.	2		31/2	11	 2.50
6.6	3.	2	4.6	4		 3.00



Retouching Lens Support

The most practical device as yet invented for this purpose. The bed plate is screwed to the side of the retouching frame. The lens can readily be adjusted to and held firmly in any conceivable position by the universal ball clamp employed. Madeof brass, nickel-plate finish.

Price, each.....\$1.50

The Schaefer Album Patent Applied for

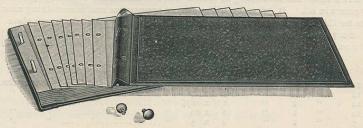
FOR MOUNTED OR UNMOUNTED PHOTOGRAPHS

It is the only album with an adjustable extension, thus allowing you to put in from 50 to 80 pages without injuring the appearance of the book.

It is so constructed as to allow one or more leaves being put in or taken out without disturbing the balance.

It is perfect in action, allowing the leaves to fall evenly when opened at any page.

It is very substantially and beautifully made in the most desirable bindings, and can be had with white or gray leaves as desired.



The above engraving represents the album as it appears detached. Sizes given denote size of mount or mounting surface of leaf.

PRICE LIST

STYLE D	STYLE E	STYLE F	STYLE G
Bound in full cloth handsomely embossed	Bound in half leather and half cloth embossed	Bound in Seal grain Back and Corners. Handsomely embossed and rolled in gold leaf.	Bound in full seal grain leather, heavy bevel covers, embossed. Our best binding.
6 x 7—\$1.25	6 x 7—\$1.50	6 x 7—\$2.00	6 x 7-\$2.25
7 x 10- 1.50	7 x 10— 1.75	7 x 10 - 2.25	7 x 10— 2.75
8 x 10- 1.75	8 x 10— 2.00	8 x 10— 2.50	8 x 10- 3.00
IO X 12- 2.00	10 X 12- 2.50	IO X 12- 3.25	10 x 12- 4.50
II x 14- 2.50	11 x 14- 3.00	11 x 14— 4.00	11 x 14- 5.50
14 x 17— 3.50	14 x 17— 4.00	14 x 17— 5.00	14 x 17— 7.00

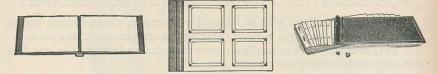


The above engraving represents the Album as it lies open, showing its perfect action and neat appearance.

Extra leaves or mounts may be had in white or gray, at the following prices:

Size	6 x 7per	doz.	\$0.35	Size	10 X	12	per doz.	\$0.75
66	7 x 10	"	.45	6.6	IIX	14	44	1.00
66	8 x 10	"	.50	6.6	14 X	17	"	1.50

Schaefer Squeegee Album



THE great advantage of this album is that one may, by purchasing leaves with the proper opening, put any size picture in his album, as leaves can be had accommodating all sizes of pictures from 3½ x 4½ to 8 x 10. Each leaf has openings on both sides so that a 11 x 14 album, containing 24 leaves, will accommodate 8 on each page, making 200 4 x 5 prints in all. It presents a handsome appearance and is something new. The prints for this album are not mounted but simply squeegeed on a ferrotype plate.

6 x 7 album is made for 4 x 5 prints; 7 x 10 for 5 x 7; 10 x 12 for 6½ x 8½; 11 x 14 for 8 x 10.

Price List Squeegee Leaves

TI X TA L	eaf wit	th 8 o	pening for	4	x	5	Prin	t		Price p	er doz.,	\$1.50
11 X 14	46	4		5	x	7	44			16	"	1.50
11 X 14	44	2		61/2	x	81/					44	1.50
11 X 14	**	2	6.6	8		10						1.50
6 x 7	44	2	4.6	4	x	5					, '	.50
7 X 10	44	2		2000	x						4.6	-75
10 X 12	**	2	46	61/2	x	81/2						1.25
		Ab	ove Leaves	ma	y 1	be h	ad in	either Wl	hite or Gray	7.		

Price List Squeegee Albums

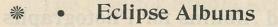
Each Containing 25 Leaves Corresponding to those Listed Above.

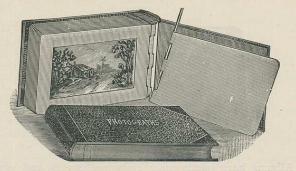
	STYL	E D	ST	YLE E
Boun	d in full clot embossed in	th, handsomely gold leaf.		f leather and half —embossed.
6 x 7		7 x 10 \$2.00	6 x 7 \$1.75	10 x 12 \$3.50
10 X 12		11 x 14 3.50	7 X 10 2.20	11 x 14 4.00
ne	STYL ad in seal gra ers, handsom and rolled in	ain back and cor-	Bound in full heavy bevel of Our handson	YLE G seal grain leather, covers embossed. mest and best binding.
6 x 7	\$2.25	10 x 12 \$4.00	6 x 7 \$2.50	10 X 12 \$5.50
7 x 10	2.75	II X 14 4.50	7 x 10 3.25	11 x 14 6.50

The II x 14 Albums may be had with assorted leaves in any proportion desired.

In ordering leaves for any of the Albums order by Number Only—we use the following schedule.

No.	T	6	x	7	Leaf.	2	openings	for	r4 x 5 Print—whi
	2	7			66	2			5 x 7 " "
44		IO			66	2	4.	"	6½ x 8½ " "
66	-	II				2	"	66	8 x 10 " "
44	9150	II		-0.5	- "	2	- 11	**	
44	-	II		COLO	6.6	1	66	66	5 x 7 " "
66		II			46	8	66		x 5 " '
"	- 100	7				4	**	44	4 x 5 " '
44	TOI			7	66	2	44	"	4 x 5 Print—gra
66	102	7		2.	**	2	**	46	5 x 7 " "
**	103					2	66	66	
46	104				66	2	**	"	8 x 10 " "
44	105			200		2	44	44	
44	106			1.0	6.6	4	**	44	
	107					8	66	6.	4 x 5 " "
46	108			IO	- 66	1	44	66	4 x 5 44 46





THE Eclipse Album, with interchangeable leaves, is one of the most perfect manufactured. Each card mount is distinctly independent, and may be taken out or replaced without having to disturb any other leaf or part of album. They are handsomely finished in morocco half leather bound, with gilt title, and enclosed in a neat box.

Extra cards for Eclipse Album may be had if desired.

. . . PRICE LIST . . .

WITH TWENTY-FOUR COLLINS' CARDS

No.		6 x 7 cards, for 4 x 5 photographs	f Leather Bound \$2.25	Full Leather Bound \$3.00
	100	7 x 10 " 5 x 8 "	2.50	3.50
**	21/2.	7½ x 10 upright	3,50	4.50
	3.	10 x 12 cards, for 6½ x 8½ photographs	3.75	5.50
"	31/2.	10 x 12 upright	4.25	6.00
	4.	11 x 14 cards, for 8 x 10 photographs	4.25	6.00
46	5.	14 x 17 " 11 x 14 "		9.00

EXTRA LEAVES; WHITE AND GRAY

No.	I.	6 x 7	per dozen.	\$0.50
	2.	7 x 10	**	.65
6.6	21/2.	7 x 10	**	.65
**	3.	10 X 12	44	.80
"	31/2.	10 X 12	44	-80
"	4.	II X 14	44	1.10
44	5.	14 x 17	44	1.75

Heinri	ch's Hard or Soft	er lb.	\$0.85
Heinri	ch's Lichtdruck	66	.85
Simeor	's Swiss (hard)	646	.85
Dreshe	r's	66	.85
Magde	burg	66	.80
Nelson	's No. 1	66	1.25
44	No. 2	66	I.05
4.6	No c	66	.70

Howard Albums for Photographs



THESE Albums have handsomely embossed covers, and twenty-five of Collins' best cards, which latter are interchangeable by means of laces passing through holes in the end of leaf and fastening it to the cover, and can be had separate, independent of the covers. This enables one to remove any one picture at will, without spoiling the appearance of the Album.

FULL CLOTH, EMBOSSED, GOLD LABEL, WITH A. M. COLLINS MFG. CO.'S No. 1 CARDS

No.	ī,	6x7	Cards,	for	4	x5	Photographs	With 25 Cards\$1.25
66	2,	7X10	- 66		5	x8	- 66	I.50
44	21/2,	8x10	**	66	63	2x81/2		2.00
44	3,	IOX12	"	66	7	x9	44	
66	4,	IIXI4	44	66	8	XIO	**	2.50

MOROCCO, HALF LEATHER, EXTRA GOLD FINISH, WITH A. M. COLLINS MFG. CO.'S CARDS, BOXED

						*		Wit	h 25 cards	Wi	th 50	cards
No	, 5,	7 X 10	Cards,	for	5	x 5	Photogra	phs	\$2.00	No.	II,	\$3.50
	6,	8 x 10	46	44	61/2	x 81/2	46		2.50	100	12,	4.00
	7.	10 X 12	**	"	61/2	x 81/2	"		3.00	46	13,	4.75
46	8.	II x 14	4.6	44	8	x 10	44	********	3.50	46	14,	5.50
44	Q.	14 x 17	44	66	IOX	2 or 11	X 14 "		5.50	66	15,	9.00
	10.	16 x 20	***	44	IIX	14 or 14	x 17 "		. 7.25	44	16,	11.00

EXTRA CARDS, COLLINS' BEST FOR HOWARD ALBUMS, MOUNTED WITH LOOPS, READY FOR USE

6x7, 1	Package	e of one	doze	n	3 .38
7 x 10,	**	- 66	6.6		.50
8 x 10,					
10 x 12,					100000
11 x 14,	86	44	- 44		.88
14 x 17,	66	- 66	44		1.25
16 x 20,	44	44	44		1.55

The Monitor Studio Register



Sample sheets of Studio Register sent free on application.

GREAT pains have been taken in preparing a form which will be suitable for the greatest number of studios. In the front of the book is an ample index, where may be entered alphabetically the names of the sitters, with the number of the negative. Following this index are pages on which are recorded, as they come in, the full name and address of the sitters, with the running number of the negative, the date and further details concerning the order.

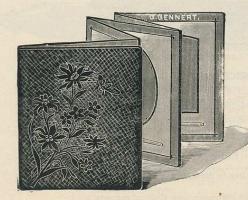
If it is required to trace an order, when the name only (and not the negative number) is known, look up the name in the alphabetical index. You will there find the negative number. Refer to this number in the body of the book, and all the details of the order will at once be given. When the negative number or date are known, reference can at once be had to the body of the book.

The very best ledger paper is used, the printing is excellent, the binding is half Russia, with cloth sides. The Index is sufficient to accommodate the same number of names as the body of the book will hold.

Price of No. 1,	160 pages	\$2.75	Price of No. 3,	320 pages	\$3.75
" No. 2,	240 "	3.25	" No. 4,	480 "	4.50

SPECIAL SIZE FOR LARGE STUDIOS

bound in three-quarter Russia, ledger binding, specially long sheets, full double cap, ledger size.....each, \$10.00



* Albums

For use in studio or for agents to show pictures when canvassing.

No. 1. (Spreads out) holding 10 Cabinets. \$1.50

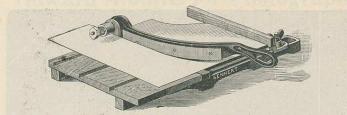
No. 2. With flexible seal leather cover, opening on one end only, lined with white brocaded satin. 3.75

No. 2. Plain solid cover. 2.00

" 3. Seal leather, flexible album to slip into pocket, holding 2 pictures. 2.00

For each additional 2 pictures 50 cts, added.

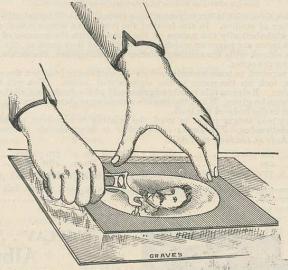
Improved Card and Paper Cutter



LENGTH of knife blade is 12 inches. On the left is a table for holding the card; on the right an adjustable rule parallel to the blade of the knife.

Price of the cutter, boxed ready for shipment..... \$10 00

Graves' Outfits . . .



SHOWING MANNER IN WHICH ARISTO OR ALBUMEN PRINTS ARE CUT

-PRICE LIST

0. 101.	Circle	Outfit	each	\$0.75	Nos	101	and 193	Circle	Outfit (combine	ed) ea	ich:	\$1.00
' 193. Circo'' A	**	"		.75	No.	194.	Oval	Outfit					1.00
Circo" A	all five	"	"	-75	No.	195.	16.68	A STATE OF			"		1.00

"Circo A " " .75 No. 195, " " "	I.00
EXTRA PARTS	
Revolving Cuttereac	1, \$0.25
Polished Brass Forms, Nos. 101, 193 or "Circo" A	.50
" " Nos, 194 or 195 "	.80
Special circle forms, not exceeding 4 inches in diameter	
5	1.55
The numbers refer to the corresponding Collins' mounts.	

The Thornton-Pickard Patent
PLUMB INDICATOR

NO SKILL REQUIRED TO FIX



FOR ATTACHING

CANNOT GET LOST

HEN photographing any subject in which there are vertical lines, such as buildings, etc., it is absolutely necessary that the sensitive plate should hang plumb, or the vertical lines will not be parallel in the resulting photograph. It is difficult to judge when the plate does hang plumb without either a spirit level or a Plumb Indicator. The latter is by far the simplest and the best device. It is permanently screwed to the Swing Back of the Camera, and cannot get lost. It shows at a glance, with certainty, when the Camera Back and Sensitive Plate are true and plumb.

SENT OUT COMPLETE WITH SCREWS READY FOR FIXING.

PRICE, 20 CENTS EACH

Fountain Air Brush Outfit



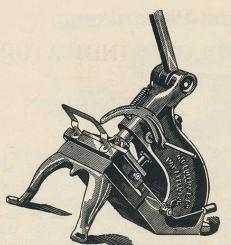


ILLUSTRATION IS EXACT SIZE OF INSTRUMENT.

The Fountain Air Brush is the best instrument to be had for finishing Bromide or Solar Prints in Crayon or Water Colors, and is also admirably adapted to free-hand Work. It is a great labor-saver, as by its use an Artist can finish a picture in one-fourth the time necessary by hand. Minute description and explanation to be had for the asking.

The outfit consists of the following parts:-

Fountain	Air Brush	Price.	\$25.00
66	Roller Air Pump	66	7.50
6.6	Air Gauge	66	1.00
4.6	Crayon Sauce, per jar	"	.35



Photograph Mounts

It is adjustable to all sizes of cards from 25x30 to smallest size. This is not a toy but a practical machine, and will do the following styles of embossing:

> Bilt, Silver, Scarlet or Green Bronze, All Colors of Ink, and Plain Stamping. Will also do Plain Printing in any Color Ink

Requires no special knowledge; it can be operated by a boy. Its usefulness can hardly be appreciated.

No Picture should leave the Studio without your name and address, therefore it is particularly useful for Embossing or Printing all your Group cards, Plate sunk Centres and Platinotype mounts. Its convenience and the money it saves you on this class of

work alone, makes it so that you cannot well afford to be without it.

Styles are changing rapidly, and Photographers, to be up to date, are compelled to carry large quantities of innumerable sizes and styles of mounts; this is necessary in order to get a reasonable rate for Embossing. By having one of our Embossing Machines, Photographers are not compelled to purchase any particular quantity of mounts and the Embossing can be done, when desired, either group or portrait way, according to style of

The outfit complete and ready for work, includes Embossing Machine, Die, Size, Roller and Bronze.....\$25.00

GILBERT'S LUBRICATOR, BETTER THAN CASTILE SOAP Price, per Cake......50 cts.

ENTREKIN'S LUBRICATOR

Mora Stands





No. 1.

Photographers should not confound this rich combination of Crystal Plate Glass and Gold with the cheap goods sold at dry and fancy goods establishments. The Mora Stand is so far superior that we do not care to compare them. The Mora Stands are the best exhibitors that Photographers can have, as they preserve the pictures and at the same time enhance their beauty. Only the finest plate glass and pure gold leaf is used in their construction. They are a most desirable article both to sell to customers and to give away with a dozen pictures, and so used they will increase your business and can be found in the leading photographic establishments of the country.

	No. 2. Gold Bev. Edge Crystal Glass	No. 1. Gold Bev. Edge Plate Glass	Serrated Gold Bev. Edge Plate Glass	Bevel Edge Plate Glass No Gold	Bevel Edge Crystal Glass No Gold
Minnett,	\$1.00				\$0.85
Petite,	1.25				1.00
Carte de Visite,	1.75	\$2.50	\$3.25	\$2.25	1.50
Carré,	2.50	4.00	5.00	3-75	2.00
Cabinet,	2.50	4.00	5.00	3.75	2.00
Boudoir,		7.50	9.00	6.75	
6 x 10,		14.50	16.00		
7 x 10,	****	15.50	17.00		
8 x 10,		16.50	18.50		
7½ x 13,		18.50	20.00	A A	
10 X 12,		23.00	25.00		
11 x 14,		27.50	30.00		
	Dis	counts on large	orders.		



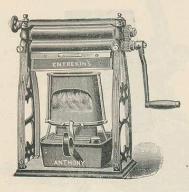
Royal Mora Stands

PLATE GLASS AND GOLD WITH EBONY STANDARD

Cabinet, brown or black frame, each (formerly \$0.80) \$0.50 per dozen ("

These stands are the handsomest and cheapest Photo Stands obtainable.

PATENT IMPROVED ROTARY BURNISHER



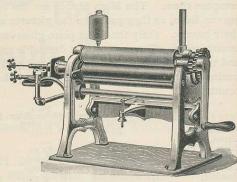
This Burnisher has the One-wheel End Adjustment, the Turn-back Roll (permitting the upper roll to be turned back from the polishing roll while herting, so as to prevent the moisture from dropping on the polishing roll), has Lock Nut and Set Screw, and Swing Fire Pan.

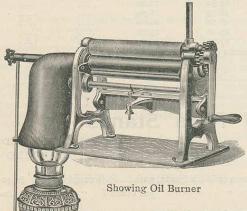
8	inch	Roll	\$15.00
IO	6.6	" (light)	17.50
IO	"	" (heavy).	25.00
15	"		
20	4.6		
25	4.6		

ACME ARISTO BURNISHER

Patent Pending.

Cut showing gasoline burner attached to Burnisher.





ACME ARISTO BURNISHER

Patent Pending.

Gives the highest polish of any burnisher in the world.

PRICE LIST

1 1 11 0 0 0
II inch, with Gas, Gasoline or
Oil Heater\$30.00
15 inch, with Gas, Gasoline or
Oil Heater 40.00
21 inch, with Gas, Gasoline or
Oil Heater 50.00
26 inch, with Gas, Gasoline or
Oil Heater 60.00

Special Sizes to Order.

Acme Stationary Burnisher

These machines are to be recommended for their freedom from smoking, their perfect combustion, their smooth and even polish, freedom



from moisture, and quick heating capacity. A thermometer is attached. Alcohol, Oil or Gas heaters are supplied.

Sizes and prices as follows:

8 inch Amateur size to take prints up to								
8 x 10\$10.00								
тт inch Roll								
15 " " 22.00								

COLUMBIAN POLISHERS

With Gas or Gasoline Heaters.

20 inch	22.00
15 "	30.00

ACME ROTARY

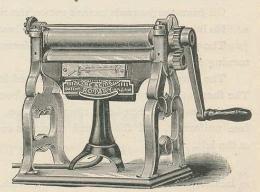
One hand wheel adjustment,—even tension,—Acme thermometer, 11 and 15 inch machines have nickel finish and hollow rolls.

Following are the prices:

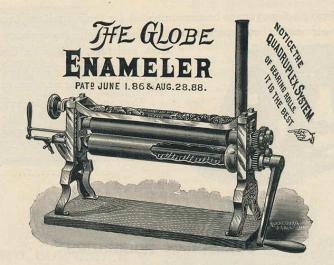
8 inch Amateur size, alcohol,
oil or gas heating...\$13.00

11 inch Roll, alcohol, oil or
gas heating.....\$25.00

15 inch Roll, alcohol oil or
gas heating.....\$35.00



The Globe Enameler



T embodies the features of the Humphrey Patent Hollow Roll and Heaters, constituting a machine which leaves nothing to be desired, and which is pronounced perfect.

ITS ADVANTAGES ARE:

It heats in five minutes and saves gas. Either gas or gasoline is used for heating; no smoke is possible.

Prints cannot be scratched with this machine.

Rolls will not sweat or become soiled.

Oil from the journals cannot get on the rolls and soil them.

No lubricator is required; in fact, the best gloss is produced without it.

The pressure is always perfectly uniform, and is quickly adjusted by turning one hand wheel.

The burner inside the roll is perforated in zig-zig shape on the bottom. The flames thus furnish direct heat to the bottom of the roll; from this surface the heat is deflected and rises to the top, thus heating the entire surface uniformly, and the degree of heat is controlled perfectly by the lever at the left.

Following are the prices:

10	inch\$30.00	20	inch\$50.00
15	.66	25	" 60,00

Use Globe Burnishers for Aristo work.

Wood's Grouping Stools



The latest, best and cheapest Grouping arrangement on the market.

No heavy iron frame to handle. Each stool separate; can be placed in as you want them or combined with any other seats.

Lighter to handle and take less room when not in use.

Made in Two Styles

No. 1.	Eight Stools;	Cane	Seat	Rattan	Frame;	very	ornam	ental	
	as shown	in cut	, -		-	-			\$18.00

No. 2. Eight Stools; fine wood seats; very neat; same size as No. 1, 14.00

Linen Thread Mats

WILL NOT LITTER UP YOUR STUDIO

2	x	3	fee	t	Each,	\$.50
2	×	4	6.6		66	.65
2	×	5	66		"	.90
2	X	6	66		"	1.00

COTTONS

Gennert's Wholly Soluble (the best cotton)per	r ounce,	45C.
E. A. Negative, Positive, No. 1 or No. 2, each	66	5oc.
Climax Cotton	44	75C.
Silver Spray	66	SOC.
Celloidin (Schering's)	*44	90C.

N.B.—Of the above none except Schering's Celloidin can be sent by mail.

"Special" and "G. G." Filtering and Absorbent Cotton

I-lb.	package,	"Special"	6oc.	"G.G."	75c.	1/4-1b.	package,	"Special"	20C.	"G.G."	250
½-1b.			35C.		40c.	1/8-lb.	**	"	I2C.	- 66	15C.

Collodions

G. G. POSITIVE COLLODION, for Positives and Ferrotypes,per 1b	\$1.10
E. A. "	1.25
G. G. NEGATIVE, for general studio and copying work	1.10
E. A. New Negative	TOF
Porceiain Collogion, 8 oz. pottle	7 50
E. A. New Ferrotype Collodion	1.30
**	0 4040

Varnishes

NEW PROCESS VARNISH, a new negative varnish:—6-oz. bottle, 40c; per pint, \$1.00; per quart, \$1.90.

HAMMER NEGATIVE AND RETOUCHING VARNISH:—per pint bottle, 50c.
FLINT VARNISH:—6-oz. bottle, 40c.; per pint, \$1.00; per quart, \$1.90.

DIAMOND VARNISH:—6-oz. bottle, 35c.; per pint, \$1.00; per quart, \$1.90.

GLOSSY FERRO VARNISH, light color:—6-oz. bottle, 35c.; pint bottle, 85c.; per quart, \$1.60; per gallon, \$6.00.

Backgrounds

We are constantly receiving so many new designs for backgrounds from our manufacturers that it is impossible to render, in the limited space at our command, even a small proportion of what we have to offer.

Purchasers should write to us for Sample Book of Backgrounds, and should enclose, with their inquiry, one dollar to cover cost of book, this dollar to be refunded when the book is returned.

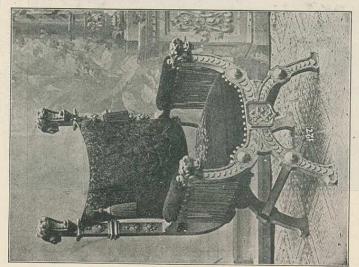
We furnish in all possible shades and tints:

Plain Grounds, any size, 8c. square foot.

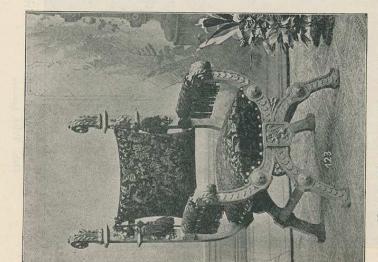
Felt Grounds, black, light blue, gray and drab, at 50c. per running foot, 6 feet wide.

Handsomely Hand Carved

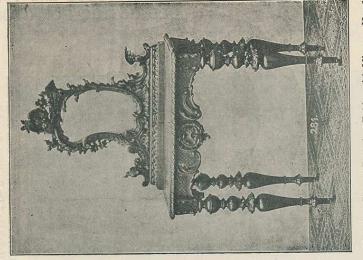
OAK ROCOCOS and . . . OLD GOTHIC FURNITURE



No. 127. Hand Carved Massive Oak. Lion Chair, after design "Henry the Lion." Price, \$40.00.

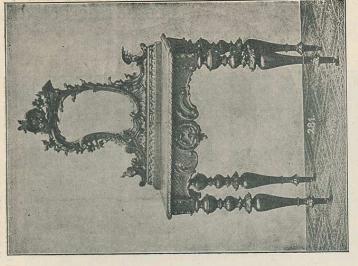


No. 123. Hand Carved Massive Oak. Price, \$35.00.

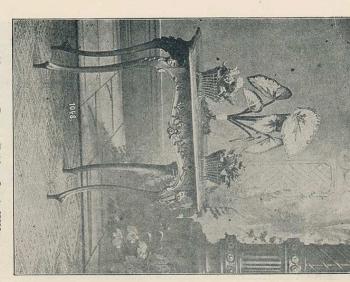


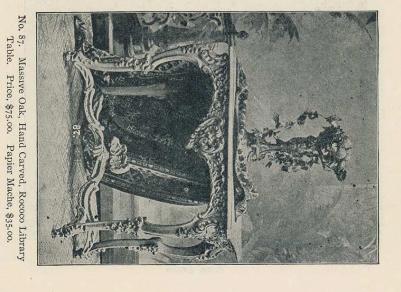
No. 281. Roccoco Dressing Table, with Mirror. Hand Carved Oak. Price, \$60.00.

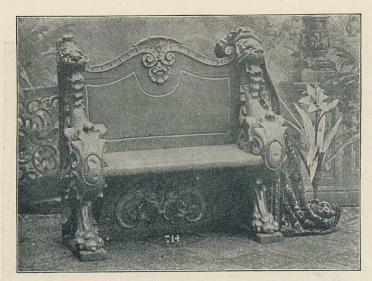
No. 154. Roccoco Hand Carved Balustrade. Massive Oak. Price, \$100.00.



No. 1048. Rococo Table.
Price, \$35.00. Louis XIV.







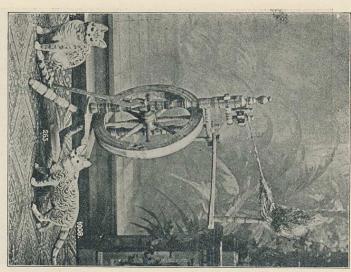
No. 714. Dragon Bench. Papier mache and Wood. Price, \$20.00.



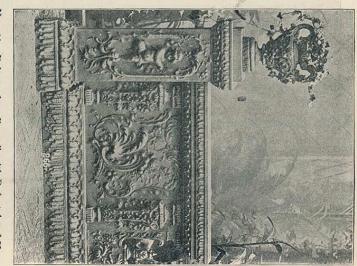
Nos. 138, 146, 147. "Lohengrin" Swans. Including Sea Shell and Water.

Papier mache. Price, \$40.00.

No. 265. Old Saxon Spinning Wheel. Price, \$15.00.

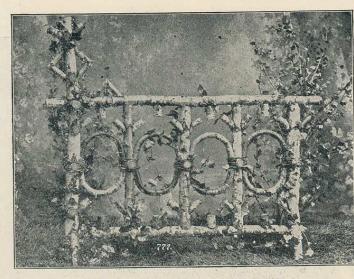


Vo. 266. Balustrade "Baroc" with Pedestal and Va Papier mache. Price, \$32.50.

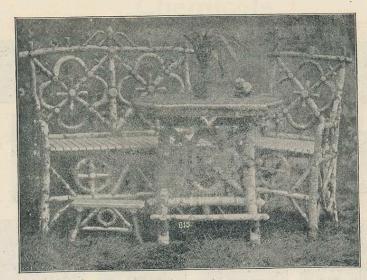




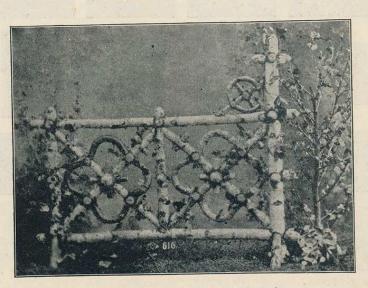
No. 747. White Birch Set. Table, Bench, Chair and Footstool. Price. \$20.00.



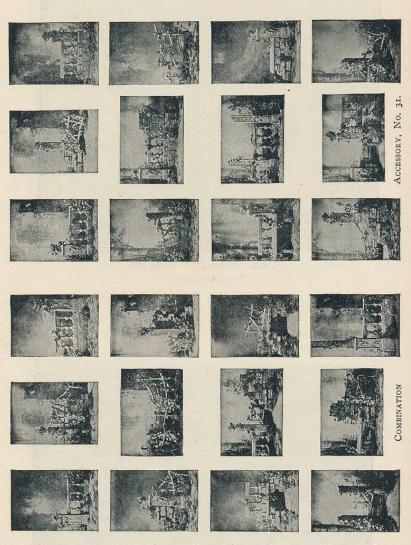
No. 777. White Birch Rustic Balustrade.
Price, \$12.50.



No. 615. White Birch Park Set. Price, \$25.00.



No. 616. White Birch Rustic Balustrade. Price, \$10.00.



This accessory should be in every studio, as it is capable of more different and beautifully artistic combinations, than half a dozen ordinary accessories.

As our space is limited, we have shown only 24 different combinations here, although many more fully as beautiful effects can be secured with it. This wonderful accessory is composed of 15 pieces, not counting vines and rustic parts, plants and moss pieces. Price only \$40.00.

Chemicals





I N that most delicate process of chemistry "The Production of a Photographic Image," it is necessary to have chemicals of great uniformity of strength and chemical purity, and so packed as to retain their strength.

We have made it our aim to secure the very finest of photographic chemicals, and a trial will convince you that we have succeeded in making this department a special feature of our business.

We can offer special inducements in quality and many special chemicals to be obtained of us only as sole agents for Dr. HENRY BYK, Berlin, Germany Byk's Pyrogallic Acid, C. P., Byk's patented Permanent Hydrochinon, C. P., and Byk's C. P. White Hydrochinon.





DR. J. HAUFF'S CHEMISCHE FABRIK in Feuerbach, Germany, manufacturers of Hauff's Metoi, Hauff's Glycin, Hauff's Amidal Developing Salts, Thiocarbamid Fixing and Stain, removing salt, and Metol Cartridges "ready for use by adding water only." Patented in all countries.







WALPOLE DYE AND CHEMICAL COMPANY, Walpole, Mass. U. S. A., manufacturers of the celebrated "New Process" chemicals, Hyposulphite

of Soda, Sulphite of Soda, Acetate Soda, Carbonate Soda, Bisulphite of Soda Solution, Sulphate of Iron, Sulphate of Copper, Carbonate of Potass., Red and Yellow Prussiate of Potass., Potash Alum, Chrome Alum, Citric Acid, Nitrate and Acetate of Lead.

New process chemicals are strictly chemically pure and in a form of small crystal which makes them exceedingly soluble.

NOTICE—Our prices are the lowest consistent with quality at which the goods can be sold, and all prices except where otherwise specified *include containers*. We are prepared to quote special prices at all times for large lots of chemicals in bulk, and solicit correspondence in regard thereto.

c. = paper cartoons. c. b. = cork-stoppered bottle. g. s. b. = glass-stop. bottle.

Acid.	Acetic, 1	No. 8. pure	e u. s. p per 1b. bottle,	\$0.16
"		No. 8, pure		-55
		Salaran Carlo Tamaran	e " (carboy, \$1.50) in carboys, per lb.	.05
			per cent	.60
			per i oz. c. b.	.10
			per lb. in bulk.	.60
				.70
			per ½ 1b. c. b.	.38
			per ¼ 1b. c. b.	.22
"				.10
			per i lb. can	1.00
			rial) per 1 lb. g. s. b. 25c., per 6 lb. g. s. b.	.65
	"		y pure per 6 lb. g. s. b.	1.20
		"	"	.35
			" per 1 oz. g.s.b. 12c., ¼ lb. 18c., ½ lb.	.25
66	Nitric		"	1.30
44	- "	cc	" per i lb. g. s. b.	.38
			" per 1 oz. g.s.b. 12c., 1/4 lb. 20c., 1/2 lb.	.27
	Oxalic			.20
			Chem. pure per 5 lb. can	17.50
	11		" " 1 lb. can	3.60
66	"	**	" "per ½ lb. can	1.00
100	Je.		" / "	1.00
1100			" per i oz. can	.30
· ·	"	Scherin	ng'sper 10 lb. can	36.00
	66		per 1 lb. can	3.75
			per ½ lb. can	2.00
	J	"	per ¼ lb. can	1.10
ne Pr	ices inclu	de containe		

Acid, Pyrogallic, Schering's per 1 oz. can	\$0.35
" " per 1 oz. bottle	.40
" Sulphuric C. Pper 6 lb. g. s. b.	1.20
" per 1 oz. g.s.b. 12c., ¼ 1b. 18c., ½ 1b. 25c., 1 1b.	-35
"Sulphurousper 1 lb. g. s. b.	.27
Alcohol, 95 per cent	3.00
" " per 1 pint c. b. 50c., qt. 90c., ½ gal.	.75
Alcohol Wood per gallon can	1.80
Alum Potash or Powdered (Walpole)per 1 lb. c.	.12
" " per lb. in bulk	.10
" Chrome (Walpole) per 1 lb. c.	.15
" " per 1b. in bulk	.13
Ammonia, Liq. Conc. U. S. P. 26°per 4 lb. g. s. b.	.74
" ," ," " 26°per 1 lb. g. s. b,	. 26
Ammonium, Chlorideper 1 oz. c. b.	.10
"Bromide	.55
" per ¼ lb. c. b. 20c., ½ lb. 35c., i lb.	.65
" " per 1 oz. c. b.	.10
"Iodide, Chemically pure per 1 oz. g. s. b. 38c., 1 lb.	4.50
bichiomateper 1 15. c. b.	1.25
Witrate, rusedpcr /2 15. c. b. 25c., pcr 1 15. c. b.	.45
Carbonate	.40
"Chlorideper ounce, c. b. 10c., per lb. c. b. "Sulphocyanide "Three Swans Brand,"per 1 lb. bottle	.40
" " " " " " " " " " " " " " " " " " "	-75
per ½ 10. bottle	.40
" " " " per 1 oz. bottle	.14
Amidol Hauff per 1 lb. glass bottle	10.00
" " per ½ lb. \$5.25, per ¼ lb. \$2.75, per 1 oz.	.75
Barium, Nitrate	.75
"Chloride per oz. c. b. 10c., per 1b. c. b.	-35
Benzoleper pint, c. b. 6oc., per gallon can	2.00
Borax per lb. in bulk, 10c., per 1 lb. c.	. 1 2
Cadmium, Bromideper 1 lb. c. b. \$2.00, per 0z.	.20
" Iodide per 1 lb., g. s. b. \$5.00, per 1 oz.	.40
Calcium, Chloride, C. P per oz. c. b. 15c., per lb.	.65
"Bromide	.20
" Iodide per oz. c. b.	.45
Chloroformper oz. 18c., per 1b.	.90
Copper, Sulphate per lb. c.	.15
Celloidin, Schering's	1.10
Ether, Concentrated, Suphuric. per 3½ lb. c. b. \$2.95, per lb. c. b.	.85
Eiconogen, Dr. M. Andresen's per 1 lb. can	3.95
" per ½ lb. \$2.10, per ¼ lb. \$1.20, per 1 oz.	.37
Flash Powder (Blitz Pulver, per oz. 6oc.)per oz. 4oc., per 1b.	4.00
Glycin, Hauff, per lb. bottle, \$10.00, ½ lb. \$5,25, ¼ lb. \$2.75, per oz.	.75
Prices include containers. Special prices on large quantities in	n bulk.

Glycerine	.40
Gold Chloride, C. P per 15 gr. bottle, 50c., per doz. \$5.25, per 1 oz.	12.00
" Chloride and Sodium per 15 gr. bottle, 3oc., per 30 grs	.55
Gum Arabic, selectedper 1b.	.75
" Asphaltum	.20
"Benzoinper 1b.	.75
" Camphor	.45
" Damar	.50
" Mastic per lb.	1.50
" Sandarac per lb.	.45
" Shellac, Refinedper lb.	. 50
" Brown, D. Cper lb.	.40
" Tragacanth per lb.	1.20
"White Turpentineper lb.	.40
Hydrochinon, Byk's Permanent C. P per 1 lb. bottle	3.75
" " " … per ½ lb. bottle	2.00
" " " … per ¼ 1b. bottle	1.10
" " " per i oz. bottle	.35
" White " per 1 lb. bottle	3.25
" " " … per ½ lb. bottle	1.75
" " " per ¼ lb. bottle	1.00
" " " control of the	.30
Iodine Resublimedper ounce 50c., per lb.	4.50
Iron Citrate of Ammonia, Walpole per oz. 15c., per lb.	,30
Iron Potosulphate, Walpole, in bulk 50-lb. lots, 4½c., less	05
" in 1 lb. c.	.07
" and Ammoniabulk, 12c., 1 lb. c.	.15
Kaolin	.15
Lead Acetate, C.P. Walpole, per 1 oz. c.b. 10c., 1/4 lb. 14c., 1 lb. c.b.	.30
" Nitrate, C. P. " 1 oz. c. b. 10c., 1/4 lb. 14c., 1 lb. c.b.	.40
Lavender Oil (Garden) 1 lb. c. b.	1.50
Lithia Bromide per oz. c. b.	.25
" Iodideper oz. c. b.	1.00
" Chlorideper oz. c. b. 3oc., per lb.	4.00
Lithmus Paper, red or blueper book or sheet, 5c., per doz.	.50
Lithmus Paper "Ariston," in glass tubesper tube	.15
Magnesium, Metallic, chemically pure, XXX powdered. Our own	3
importation. In original cans 2 2-10 lbs., per lb. \$4.00, per 1 lb.	
can, \$4.25, ½ 1b. can, \$2.25, ¼ 1b. can, \$1.25, 1 oz. can	.40
Magnesium Ribbonper lb. \$8.00, per ounce	.75
Mercury, Bichloride, per 1 lb. c. b. \$1.00, ½ lb. 55c., ¼ lb. 30c., per oz.	.12
Metol Hauff ("the best developing agent"),	FILE
per 1 lb. bottle, \$10.00, ½ lb. \$5.25, ¼ lb. \$2.75, 1 oz. bottle	.75
Metol Cartridges	1.20
Potassium, Bichromateper r lb. c. b.	.35

Prices include containers. Special prices on large quantities in bulk.

Platinum, Chlorideper oz.	7.00
Potassium, Causticper 1 lb. c. b. 50c., per 0z.	. I 2
"Bromide, 1 lb. c. b. 6oc., ½ lb. 35c., ¼ lb., 2oc., 1 oz. c. b.	.10
" Carbonateper 1 lb. c. bottle	. 25
" Chloroplatiniteper oz.	9.00
"Cyanide, 5 lb. can, \$2.75, per 1 lb. c. b. 60c., ½ lb., c. b.	-35
"Iodide per oz. c. b. 30c., per lb. c. b.	3.40
" Metabisulphite	.30
"Oxalate, per lb., bulk, 50 lb. lots	.16
"per 5 lb. c. 90c., per 1 lb. c.	.20
"Permanganateper oz. b.	.15
Red Prussiate per lb. c. b. 8oc., per oz., c. b.	.12
"Sulphocyanideper 1 lb. c. b.	.70
" Sulphuret, 50 lb. cans per lb.	.13
" " 5 lb. "	.18
" " Ib. "c. b	. 28
"Yellow Prussiateper lb. c. b. 6oc., per oz.	.12
Rodinalper 3 oz. bottle, 6oc., 8 oz. \$1.10, per pt.	2.00
Silver Nitrate per 1b.	7.50
" " per ½ lb. \$4.00, per ¼ lb. \$2 25, per 1 oz.	7
	.55
Sodium Acetate	
doubly fusedper is, e. s.	.50
Bromideper 1 02. c. b. 10c., per 1 16. c. b.	.60
Bi-Carbonate, bark per 1 ib. c.	.12
"Carbonate per 1 lb. c. 12c., per 1 lb. c. bottle	.18
" Citrate per 1 oz. c. b.	.15
" Hyposulphite, Walpole, N. P per keg, \$3.25, regular	3.00
" " " per 5 lb. c. 30c. "	.25
" ."	.07
" Sulphite, crystal, bulkper lb.	.08
" " Ib. cartoon	. I 2
" " " … 5 lb. cartoon	.50
" " granularbulk, 50 lbs. or over	.14
" "5 lb. c.	.75
" " 1 lb. c.	.18
" Iodide per oz. c. b.	.35
"Phosphateper oz. 12c. per 1 lb. c. b.	.30
"Tungstateper 1 oz. c. b.	.12
Strontion, Chlorideper oz. c. b. 10c., per lb. c. b.	.80
Tannin per 1 oz. c. b.	.30
Thiocarbamidper oz. 75c., per ¼ lb. \$2.75, ½ lb. \$5.25, per lb.	10.00
Uranium, Nitrateper 1 oz. c. b.	.90
Zinc, Bromideper 1 oz. c. b.	.25
"Iodideper 1 oz. c. b.	.25
	3
Prices include containers. Special prices on large lots in bulk.	

NOTICE.—Prices subject to fluctuation without previous notice.

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