

FABER

PHOTO SUPPLIES CATALOGUE 1889

No. 4.



1889.

Illustrated Catalogue and Price List

— OF —

A. B. Paine & Co.

WHOLESALE DEALERS IN

PHOTOGRAPHERS'

SUPPLIES.

Cor. 6th and Main Streets,

Fort Scott, Kansas.

GENERAL SUMMARY OF CONTENTS.

A Complete Index will be found on inside back.

	PAGE.		PAGE.
Lenses, Diaphragms, &c	23-23	Artists' Material	119-121
Shutters	24-26	Picture Mats	122-126
Cameras	27-45	Picture Moulding	126-138
Plate Holders, Kits, &c	46-52	Picture Frames	139-141
Camera Stands and Tripods	53-56	Picture Cord, Wire, Backing, Nails, &c	142-143
Head Rests and Head Screens	57	Frame Machines	143-144
Ferro Outfits	58	Chemicals, Collodions, &c	145-147
Burnishers and Heaters	59-61	Dry Plates	148
Posing Chairs	62-65	Argentic and Ferro Plates	149
Accessories, Backgrounds, Draperies, &c	66-84	Paper (all kinds)	149-150
Bromide and Negative Paper and Apparatus	85-90	Card Stock and Designs for Printing	151-169
Lanterns	91	Practical Formulas and Methods	170-179
Scales and Weights	91-92	Books and Publications	179-180
Trays and Glassware	92-99	Advertisements	180
Miscellaneous Goods	100-117	Index	180
Tents, Cots and Camp Chairs	118		

CHANGES IN PRICES--Continued.

ANTHONY'S NOVELETTE PLATE HOLDERS--(DECLINED.)

For plates 4 1/4 x 6 1/2, each	\$ 2 25
" " 4 1/4 x 6 1/2, "	2 25
" " 5 x 8 "	2 25
" " 6 1/4 x 8 1/2 "	3 50
" " 8 x 10 "	4 50
" " 11 x 14 "	8 00

ANTHONY'S ZEPHYR DOUBLE DRY PLATE HOLDERS--(NEW.)

Can be used on any of Anthony's amateur outfits or novelette cameras.

4 1/4 x 6 1/2	\$ 1 25
5 x 7	1 25
5 x 8	1 35
6 1/2 x 8 1/2	1 60
8 x 10	1 85

A. O. CO. & SCOVILLE CAMERAS.

(See pages 27 to 31 for old list on these goods.)

A. O. CO.'S CINCINNATI OR LAKESIDE CAMERAS.

(BACK TO THE OLD PRICE.)

8x10, Carriage movement, no swing	22 50
8x10, " " single swing	25 00
8x10, " " double swing	30 00

SCOVILL'S EXTRA QUALITY PORTRAIT CAMERAS.

DOUBLE SWING ONLY.

6 1/2 x 8 1/2	35 00
8 x 10	38 00
10 x 12	48 00
11 x 14	64 00
14 x 17	76 00
17 x 20	90 00
18 x 22	100 00
20 x 24	110 00
25 x 30	170 00

No. 41 or 155a, Bon Ton Box, 5x7, without lenses..... 12 00

VICTORIA CAMERAS--STANDARD.

Scovill or Anthony's, 5x7..... 15 00

AMERICAN OPTICAL CO.'S IMPERIAL CAMERAS.

With either Bonanza or Waterbury Holder.

No. 21, 6 1/2 x 8 1/2, Double Swing Back	40 00
" 22, 8 x 10, " " " "	45 00
" 23, 10 x 12, " " " "	60 00
" 24, 11 x 14, " " " "	80 00
" 25, 12 x 15, " " " "	90 00
" 26, 14 x 17, " " " "	100 00

THE "A. O. CO." BOSTON IMPERIAL BOX.

NOTE CHANGES.

No. 30, 11x14, Double Swing Back	85 00
" 31, 14x17, " " " "	100 00
" 32, 17x20, " " " "	110 00
" 33, 18x22, " " " "	120 00

THE "A. O. CO." ROYAL CAMERAS.

No. 40, 8x10; Double Swing Back	50 00
" 41, 11x14, " " " "	85 00
" 42, 14x17, " " " "	110 00

SCOVILL'S STANDARD OR SECOND QUALITY CAMERAS.

With Reversible Holders.

4 1/2 x 5 1/4	8 00
6 1/2 x 8 1/2	11 00
8 x 10	16 50
10 x 12	21 00
11 x 14	29 00

ACME VIEW CAMERAS--(ADVANCED PRICES.)

	Double Swing.	Single Swing
6 1/2 x 8 1/2	\$29 00	\$33 00
8 x 10	34 00	38 00
10 x 12	40 00	45 00
11 x 14	50 00	55 00
14 x 17	60 00	65 00
17 x 20	70 00	75 00

A LEADER.

OUR NEW CINCINNATI CAMERA.

This camera is well made and is similar in many respects to the Anderson Lakeside Camera--all carriage movements. Note the prices.

Price, no swing	\$20 00
" single swing	22 50
" double swing	25 00

Above fitted with 4 1/4 lenses \$15 00 additional.

RUBBER BANDS.

Per oz. package or box	30 cents
Per 4 oz. package or box	\$ 1 00

NEGATIVE BOXES.

3 1/4 x 4 1/4, each	62
4 1/4 x 5 1/2, " " "	70
4 1/4 x 6 1/2, " " "	75
5 x 7, " " "	85
5 x 8, " " "	90
6 1/2 x 8 1/2, " " "	1 00
8 x 10, " " "	1 10
10 x 12, " " "	1 50
11 x 14, " " "	2 50
14 x 17, " " "	3 00

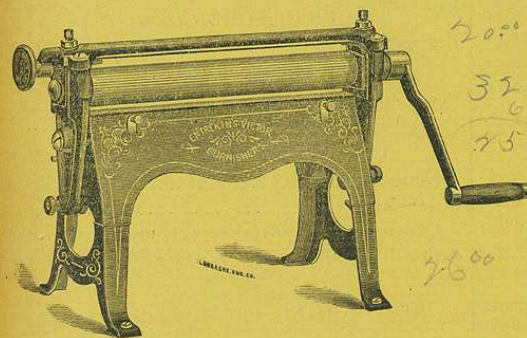
CHANGES IN PRICES--Continued.

PHOTOGRAPHER'S TENTS.

FLUCTUATING.

Size in Feet	Height of Wall in Feet.	Height of Pole in Feet.	8 oz. Single Filling Duck.	10 oz. Single Filling Duck.	16 oz. Double Filling or 8 oz. Army Duck.	20 oz. Double Filling or 10 oz. Army Duck.	Height of Wall in Feet.	Height of Pole in Feet.	8 oz. Single Filling Duck.	10 oz. Single Filling Duck.	16 oz. Double Filling or 8 oz. Army Duck.	20 oz. Double Filling or 10 oz. Army Duck.
12 x 14	5	11	\$21 50	\$25 15	\$29 60	\$33 65	6	11	\$23 85	\$27 90	\$32 85	\$37 35
12 x 16	5	11	23 90	26 75	32 00	36 45	6	11	26 55	29 70	35 55	40 50
12 x 18	5	11	25 95	30 40	36 05	41 35	6	11	28 80	33 75	40 05	45 90
12 x 21	5	11	29 20	33 65	39 70	45 40	6	11	32 40	37 35	44 10	50 40
12 x 24	5	11	32 40	37 30	43 75	50 25	6	11	36 00	41 40	48 60	55 80
12 x 28	5	11	37 30	42 95	51 05	57 55	6	11	41 40	47 70	56 70	63 90
12 x 30	5	11	40 10	46 20	54 30	61 60	6	11	44 55	51 30	60 30	68 40
14 x 16	5	12	26 75	31 60	38 10	42 95	6	12	29 70	35 10	42 30	47 70
14 x 18	5	12	28 80	33 65	40 10	45 80	6	12	31 95	37 35	44 55	50 85
14 x 21	5	12	32 40	37 30	45 00	50 25	6	12	36 00	41 40	49 95	55 80
14 x 24	5	12	35 25	40 95	48 60	55 10	6	12	39 15	45 45	54 00	61 20
14 x 28	5	12	40 10	46 60	55 10	63 20	6	12	44 55	51 75	61 20	70 20
14 x 30	5	12	43 35	50 25	59 55	66 25	6	12	48 15	55 80	66 15	74 70
16 x 18	5	13	31 60	36 90	44 15	50 25	6	13	35 10	40 95	49 05	55 80
16 x 21	5	13	33 25	41 75	49 45	56 30	6	13	36 90	46 35	54 90	62 55
16 x 24	5	13	38 90	45 40	53 90	61 20	6	13	43 20	50 40	59 85	67 95
16 x 28	5	13	44 15	51 45	61 20	69 30	6	13	49 05	57 15	67 95	76 95
16 x 30	5	13	47 40	55 10	65 65	74 15	6	13	52 65	61 20	72 90	82 35

Dark Rooms, we do not guarantee or care to furnish. Prices include Poles, Stakes, Guys and Sky-light.



ENTREKEN'S NEW BURNISHER, "THE VICTOR."

Similar to the Eureka in Construction, a good machine for the price.

8 inch Roll	\$ 9 00
10 " "	18 00
15 " "	25 00
20 " "	35 00
25 " "	40 00

GLASS BATHS--(ADVANCED.)

	Without Box.	With Box.
5x 7, for Plate 4 1/2 x 5 1/2	\$ 1 50	\$ 2 50
7x10, for Plate 6 1/2 x 8 1/2	2 40	3 75
9x12, for Plate 8 x 10	3 25	5 00
11x14, for Plate 10 x 12	4 80	7 25
12x16, for Plate 11 x 14	6 75	8 75
15x20, for Plate 14 x 16	18 00	18 75
18x22, for Plate 17 x 20	33 00	

SOME NEW DARK ROOM LANTERNS.

These are the most common sense lanterns we have seen, no smoke nor smell, being perfectly ventilated and are an ornament to the dark room.

Venus	\$ 3 00
Atlas	2 25
Bull's Eye	65

ENTREKEN'S ACCURATE ROTARY BURNISHER.

10-inch, advanced to \$20 00 each.

THE TUSCAN HEAD REST--(ADVANCED.)

Short	3 00
Tall	3 25
Base	1 10
Short Pillars	1 50
Tall Pillars	1 75
Rods, short	60
Rods, tall	70
Ear Pieces, Prongs and Rod	1 20
Cross Heads	40
Prongs for Ear Pieces	25

ANTHONY'S SNOWY COTTON.

Per oz.	1 00
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Handwritten notes: 42.50, 44.30, 58.70, 58.00

Handwritten numbers: 200, 1000, 3600

Handwritten notes: 61.70, 67.90, 67.32, 68.00, 68.80, 20

Handwritten notes: 23.85, 4.970

CHANGES IN PRICES--Continued.

A. B. PAINE & CO.'S SPECIALTIES.

TRY THESE.

Our New Rich and Rapid Collodion, lightning, (be careful and don't overtime) per 1/2 pound.....\$ 65
 Per 1 pound..... 1 25
 Our Hypo Eliminator (reduced) per 1 pound 40
 " " " " per 1 quart. 75
 " Lavender Varnish (reduced) per 1/2 lb... 40
 " " " " per 1 lb.... 75
 " White Crystal Varnish (no heat) per bot 30
 " Liquid Gold Toning Solution (1 oz. tones 2 sheets of paper, per 1/2 pound bottle... 65
 Per one pound bottle..... 1 25
 Our Ground Glass Substitute (finest made) per bottle..... 40

ALBUMEN PAPER—EXTRA BRILLIANT.

N. P. A., EAGLE, THREE CROWN—(ADVANCED.)

Per dozen..... 90
 Per 1/4 ream..... 8 75
 Per 1/2 ream..... 17 00
 Per ream..... 33 00
 Eagle Satin, per dozen..... 1 10
 Eagle Satin, per ream..... 42 00
 Three Crown, 20 1/2 x 24 1/2, per dozen..... 1 05
 Per ream..... 40 00

R. A. GREEN'S STANDARD A NO. 1 BACK-GROUNDS.

Interiors, 8x10..... 8 00
 Exteriors, "..... 7 50
 Please correct the price given on exteriors, page 83 of our catalogue.

PARLOR PASTE—(ADVANCED.)

1/2 pint jars..... 30 cents
 1 " "..... 60 "
 1 " bottles..... 40 "
 1 quart "..... 60 "
 1 " jars..... 75 "

CAMEL HAIR DUSTER—(ADVANCED.)

1 in.....\$ 25	3 in.....\$ 75
1 1/2 in..... 40	3 1/2 in..... 90
2 "..... 50	4 in..... 1 00
2 1/2 in..... 65	

EBONITE TRAYS—(NEW RUBBER.)

Have been advanced to their former prices as given on page 94 of our Catalogue.

PORCELAIN TRAYS—(ADVANCED.)

8x10.....\$ 82	DEEP.....\$ 1 00
10x12..... 1 32	
11x14..... 2 16	
14x17..... 5 10	

ANTHONY'S NEW RED PORCELAIN TRAY.

Same prices as above.

PAPIER MACHE TRAYS,

A substitute for rubber, light, strong and durable.

No. 1. 3 1/4 x 4 1/4..... each, \$ 25
 " 2. 4 1/4 x 5 1/4..... " 30
 " 3. 5 1/4 x 8 1/4..... " 55
 " 4. 7 x 9..... " 70
 " 5. 8 1/4 x 10 1/4..... " 1 05
 " 6. 10 1/4 x 12 1/4..... " 1 65
 " 7. 12 x 14 1/4..... " 2 10
 " 8. 14 3/4 x 18 1/2..... " 2 85
 " 9. 16 x 20..... " 3 35
 " 10. 19 x 24..... " 5 75

WAXED LINEN MATS.

Fluctuating. We guarantee prices on these.

1x5.....\$ 65
 1x6..... 75
 2x4..... 80
 2x5..... 1 00
 2x6..... 1 25

RUBBER FOCUS CLOTHS.

Best 3x3 feet, each..... 1 00

ABSORBENT COTTON.

Per oz. package... 10c | Per 8 oz. package.. 50
 Per 4 oz. package.. 30c | Per 16 oz. package.. 75

THE AIR BRUSH—(DECLINED.)

Air Brush, alone.....\$ 40 00
 Easel, Extra..... 5 00

Orders for Air Brushes accompanied by the cash will be subject to a special discount of 6 per cent.

RETOUCHING FRAMES—(ADVANCED.)

8x10.....\$ 3 00

PATENT RIBBED FUNNELS—(REDUCED.)

Price, per 1/2 pint..... 20
 " " 1 pint..... 25
 " " 1 quart..... 35
 " " 2 quarts..... 50

PHOTOGRAPHER'S SHEARS—(ADVANCED.)

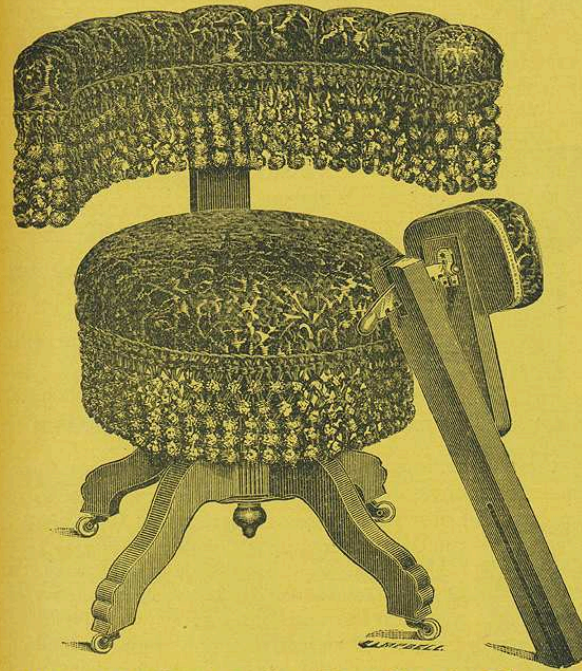
Finest tempered steel.

10-inch, per pair..... 1 00
 12-inch, per pair..... 1 50
 14-inch, per pair..... 2 00

MANILLA ENVELOPES.

C. D. V. size, best quality, No. 40, per 1000, 1 50
 Cabinet size, medium weight, No. 320, " 2 50
 Cabinet size, heavier weight, No. 35, " 2 75
 Cabinet size, heavy weight, No. 40, " 3 00

NEW GOODS ADDED.

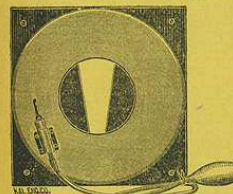


The Triumph Posing Chair.

Made in either brocaded or plain plush. Price \$12 00.

The Low Shutter,

Patent Allowed Nov. 3, 1883.



1 1/2 inch Opening is 4 1/2 inches outside
 1 3/4 " " " 4 1/4 " "
 2 " " " 5 " "
 2 1/2 " " " 6 1/4 " "
 3 1/4 " " " 7 3/8 " "
 3 1/2 " " " 7 3/4 " "
 4 " " " 9 " "

All Sizes \$4.00 Each.

This Portrait Shutter is arranged to open from the top so as to light the drapery most. It is balanced when open, and is easily focused by removing the pin in end of bulb. It is acknowledged the best shutter made.

THE LOW SHUTTER.

Instantaneous and Time Combined.

PRICE, \$6.00.

It is easily changed from time to instantaneous exposure by simply moving the small lever to one side. It is simple and cannot get out of order. Is made in all sizes up to 2 1/2 inch.

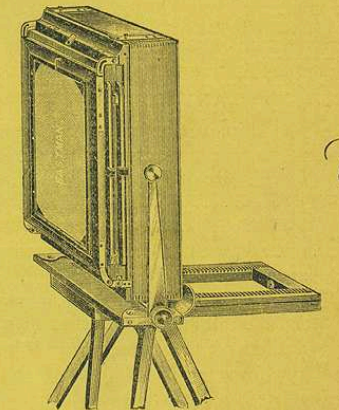
Eastman's Interchangeable View Camera's

REVERSIBLE BACK.

This camera is introduced to supply the demand for a camera combining the following qualities:

LIGHTNESS, RIGIDITY, STRENGTH, COMPACTNESS, FINE FINISH.

We believe that this camera combines all these qualities in an unusual degree, besides which it possesses other advantages not found in other cameras.



3400
 2000
 1250
 6450

Size of Plate.	Complete Camera.	Extra Back.	Double Holders.
5 x 7.....	\$32 00	\$16 00	\$ 2 50
5 x 8.....	34 00	17 00	2 50
6 1/2 x 9 1/2.....	36 00	18 00	4 20
8 x 10.....	40 00	20 00	5 00
10 x 12.....	50 00	25 00	8 00
11 x 14.....	60 00	30 00	10 00
14 x 17.....	75 00	37 50	12 50

Each Camera is provided with one double holder (book form), extra lens board, extension bed and canvas carrying case.

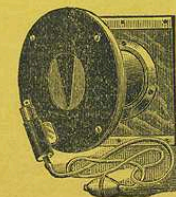
If a purchaser wants two cameras, he can obtain the second by purchasing an extra back of the size wanted, which will fit on the bed of the first camera, the additional cost being only one-half of an entire new camera. Thus, a 5x8 camera, price \$34, with an 8x10 extra back, price \$20, is equal to two complete cameras of any other make costing \$75.

CARLTON TRIPODS.

These are the neatest and handiest tripods we have.

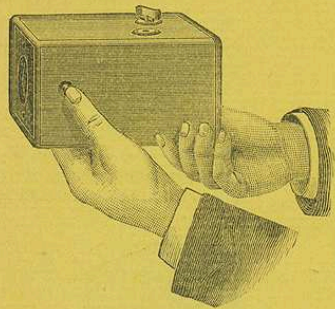
Nickel plated trimmings.

No. 1, for 5x8.....\$ 2 50
 No. 2, for 6 1/2 x 8 1/2..... 3 00
 No. 3, for 8x10..... 3 50



NEW GOODS--Continued.

THE KODAK.



ANYBODY CAN USE IT.

Size of Camera, 3/4 x 3 3/4 x 6 1/2 inches.

Weight, 1 lb. 10 oz.

Size of Picture, 2 5/8 in. diameter.

Price.....\$25 00

Price includes hand-sewed sole leather Carrying Case, with shoulder strap and film for 100 exposures.

Amateurs can finish their own negatives or send the roll of exposed films to the factory by mail to have them developed and printed.

Price for developing, printing and mounting 100 Pictures, including spool 100 films for reloading Camera.....\$10 00

Spool for reloading only..... 2 00

BORDEAUX'S FRENCH RETOUCHING SOLUTION

IS THE BEST THING KNOWN FOR RETOUCHING NEGATIVES.

With this Retouching Solution you can retouch more negatives, and fifty per cent. better than the ordinary way. For retouching locks of hair, scratches and wrinkles in dresses, use a Faber Pencil No. 2 "H H"; and for general work, use a harder lead. You can retouch on the glass side just as well as on the film side, and can strengthen the negative after it has been retouched without in any way affecting the retouching. Paper will not turn yellow when left over night on negatives. In a small gallery averaging from seven to eight negatives a day, a bottle will last a year.

Price per bottle.....50 Cents

RICHARDSON'S GLACE LUBRICATOR.

Something new for Enameling Photographs, a fine Imitation of Glace.

Per bottle of 4 oz.....50 Cents

DR. GOEHNER'S LIQUID OPAQUE.

Always ready for use—the best thing out.

Price per bottle.....40 Cents

SPURRS' SCROLL NEGATIVES.

Nos. 1 to 13, 5x8, each.....\$ 75
Set of 7, any numbers..... 5 00
Set of 13, complete..... 9 00

Send for sample prints.

"ARISTO" READY PREPARED PAPER.

NO SILVERING, NO DRYING, NO FUMING, NO WASTE.

Sizes.	Per package, in cans, 1 dozen.	Per gross, for studio use.	Sizes.	Per package, 1 dozen.
3 1/4 x 4 1/4	\$.25	\$	6 1/2 x 8 1/2	\$.90
4 x 5	.28		8 x 10	1.15
4 x 6 Cab.	.28	2.00	10 x 12	1.50
5 x 7	.40	3.50	20 x 24	6.00
5 x 8	.45	4.00		

JUST OUT—ANTHONY'S NEW IMPROVED RELIABLE BROMIDE PAPER.

Price the same as the Eastman Standard Paper.

EASTMAN'S TRANSFEROTYPE PAPER.

(Patented October 14, 1884.)

Prints made on this paper (enlargement or contact) can be transferred to almost any substance Opal Glass, Ground Glass, Plain Glass, Wood, Metal, Leather, Celluloid, etc.

For Opal Positives, Window Transparencies, Lantern Transparencies, and a great variety of decorative purposes, it is a revelation. Try it.

Sample Transferotype Print, ready to transfer, sent on receipt of six cents in postage stamps.

CUT SHEETS.

Size.	Per Doz.	Size.	Per Doz.
3 1/4 x 4 1/4	35	11 x 14	3 00
4 x 5	40	12 x 15	3 35
4 1/4 x 5 1/2	50	14 x 17	4 50
4 1/4 x 6 1/2	55	16 x 20	6 00
4 1/2 x 6 1/2	60	17 x 20	6 40
5 x 7	65	18 x 22	7 50
5 x 7 1/2	70	20 x 24	9 00
5 x 8	75	22 x 27	11 25
6 1/2 x 8 1/2	1 00	24 x 30	13 50
8 x 10	1 50	25 x 30	14 00
10 x 12	2 25	24 x 36	16 00
10 x 14	2 65	30 x 40	22 50

SPECIAL SIZES FOR PLAQUES, FILE, ETC.

Size.	Per Doz.	Size.	Per Doz.
4 x 4	35	8 x 8	30
5 x 5	39	10 x 10	2 00
6 x 6	75	12 x 12	3 00

Other sizes in proportion.

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

OPAL GLASS FOR TRANSFEROTYPES.

Selected and fine ground on one side.

REGULAR SIZES.

Size.	Per doz.	Each.	Size.	Per doz.	Each.
3 1/4 x 4 1/4	80	60	5 x 8	81	44
4 x 5	72	60	6 1/2 x 8 1/2	2 04	17
4 1/4 x 5 1/2	1 00	90	8 x 10	2 88	24
4 1/2 x 6 1/2	1 20	110	10 x 12	4 32	36

SPECIAL SIZES.

Size.	Per doz.	Each.	Size.	Per Doz.	Each.
4x4	80	60	8x8	82	40
5x5	90	68	10x10	3 00	30
6x6	1 32	110	12x12	5 40	45

Supplement of New Goods.

Spring Rollers and Skylight Curtains.

The Rollers are made of heavy tin (Hartshorn's) with extra strong spring for rolling up long curtains. They are 41 inches in length, and 1 1/4 inches in diameter.

Price each, complete.....\$0 75
Price per set of 4..... 2 50

Price per set of 6.....\$4 25
Price per set of 8..... 5 50

Heavy gray or blue Holland, for curtains, to use above, per yard.....12 1/2 c
Patent self-catching pulleys, each..... 15 c

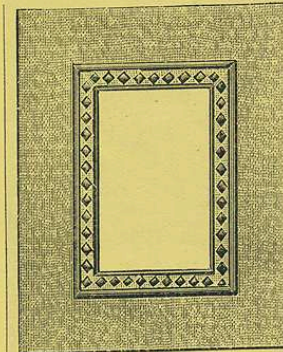
NEW STYLE of MATS, &c.

THE No. 1000 LANDSCAPE MAT.

This is a beautiful cheap mat, made of tinted paper, lithographed with fancy colored landscape, in imitation of hand painting. Has also a narrow white lining, cabinet opening, arch square or oval.

Price, per dozen, 35c.

Send for Sample, FREE, with your next order.



No. 28.

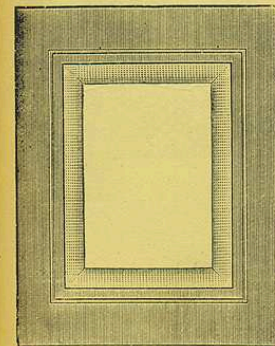
Outside is of thick white torchon. The lining is a diamond linked chain. Burnished in pure gold leaf. This is the finest mat we carry and the most beautiful mat ever made.

8x10, square cab opening.

Per dozen, \$3 75

Each, 35

No. 28.



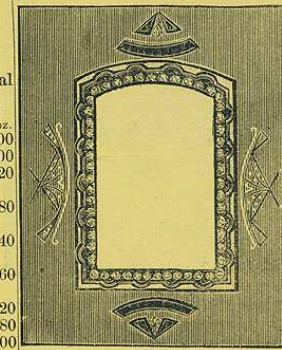
No. 2543x.

No. 2543x.

Listed also on page 124, under the wrong cut.

Note the New Sizes, Oval and Square.

Size Outside.	Opening.	Price per Doz.
8x10	5x7	\$2.00
10x12	7x9	3.00
11x14	8x11	4.20
14x17	9x11, 10x13, 11x14	4.80
16x20	10x13, 12x16, 13x17, 13x16	5.40
18x22	13x16, 14x18, 15x19	6.60
20x24	15x19, 16x20, 17x21	7.20
22x28	17x21, 18x23	7.80
25x30	21x26	9.00



No. 260.

No. 260.

This is another new mat. Very rich and heavy. Light tinted, English face with satin inlets. Thick white Torchon and brocaded gold bead linings.

8x10, arch cab openings.

Price per doz. \$3 00

each, 25

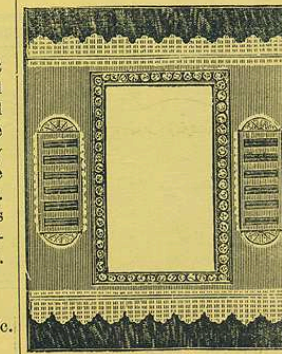


No. 264.

No. 264.

This is a new neat Mat, made of brocaded Alligator Torchon, and English card, outside of white, front overlay of tinted gray, Texture as shown in the cut. It also has satin inlets at each of the four corners of the overlay. Gilt bevel inside.

8x10 arch cab opening, per dozen, 75c.



No. 262.

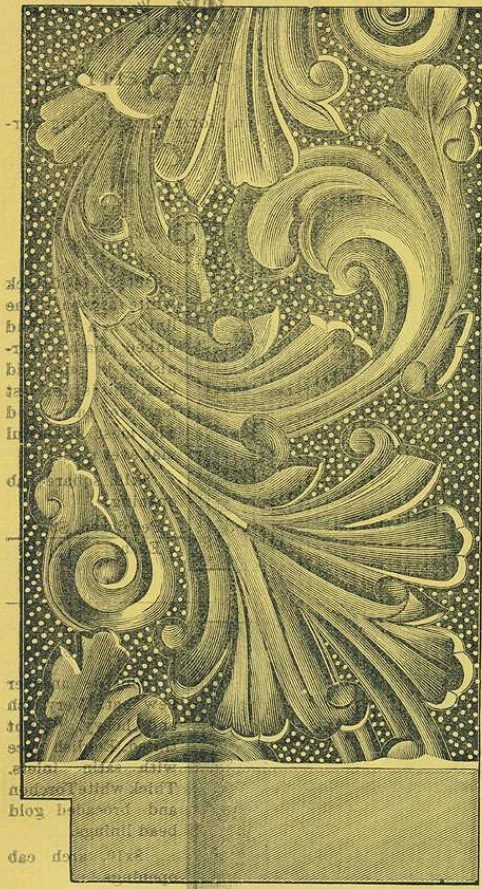
No. 262.

Very new style and rich goods. The face is an olive drab with satin inlets. The bands at the top and bottom are of dark silk plush, overlaid with thick scalloped torchon. The lining is of white frosted pearls.

8x10, square cabinet openings.

Price per doz. \$2 75

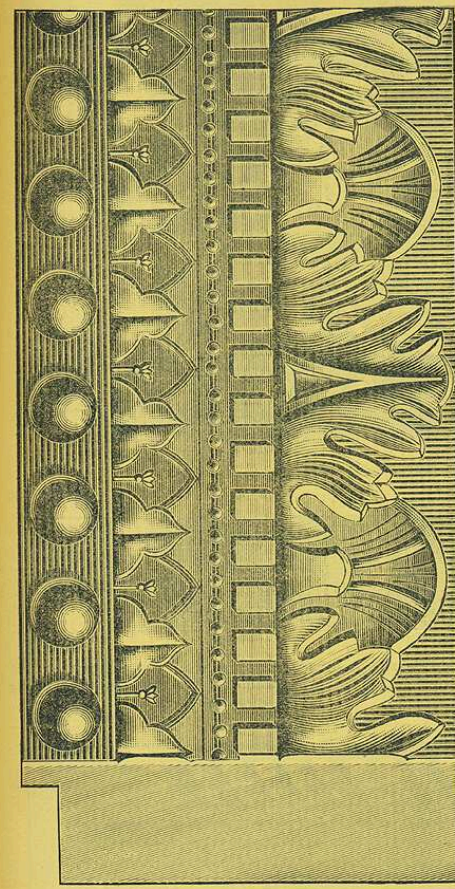
each, 25



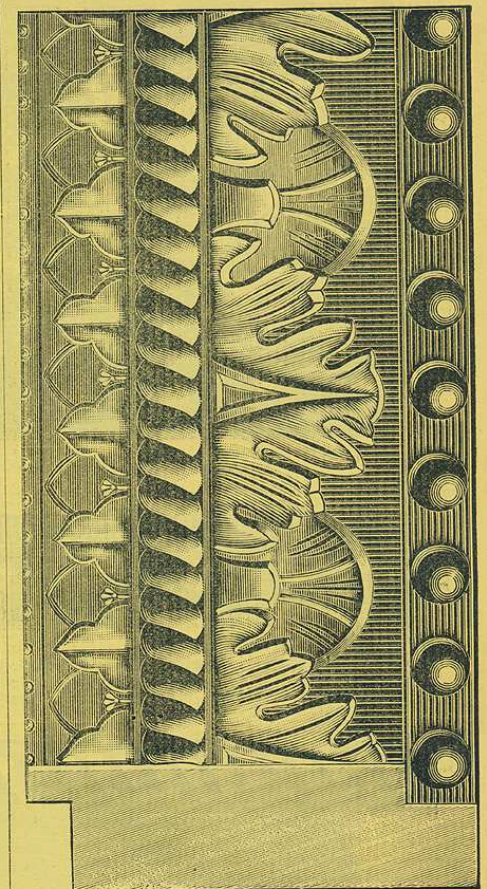
Price per foot \$3.00
 No. 668.—COMPOSITION GOLD.
 3 inch, per foot, 7½c.



No. 696.—COMPOSITION GOLD.
 2½ inch, per per foot, 6¼c.



No. 694.—BURNISHED BRONZE, COPPER AND SILVER
 PEARLS AND BLOCKS.
 3 inch, price per foot, 25c.

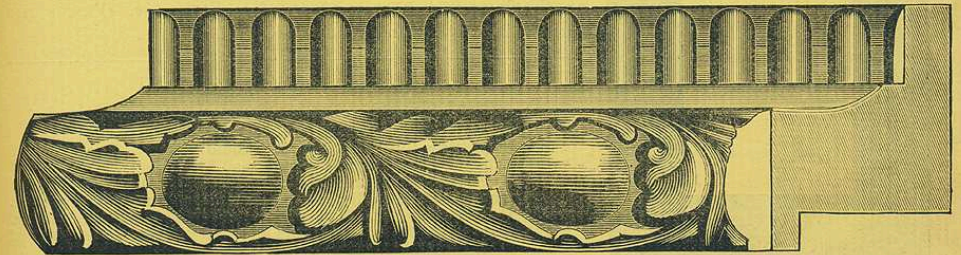


No. 707.—BURNISHED BRONZE AND BRASS, WITH
 COPPER PEARLS AND ROPE.
 3 inch, price per foot, 27½c.



Price per foot \$3.75
 No. 902.—COMPOSITION GOLD.
 1½ inch, per foot, 4½c.

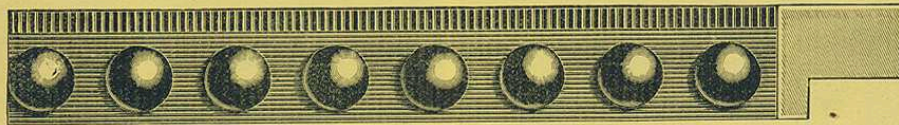
No. 902.—COMPOSITION GOLD.
 2 inch, per foot, 6c.



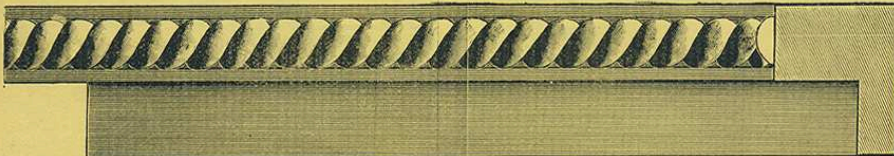
No. 805.—BEAUTIFUL VARIGATED BURNISHED BRONZE, OUTSIDE BAND, 1¾ inch, price per foot, 18c.



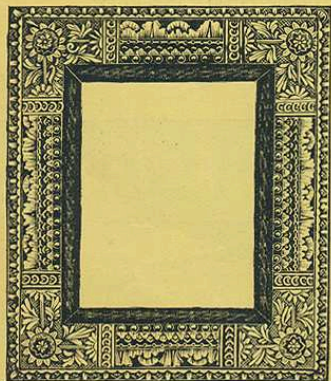
No. 656.—PALE GOLD BURNISHED BRONZE, 3 inch, per foot, 30.



		No. 562.		
Bronze Pearl, Burnished,	$\frac{3}{8}$ in. wide lining,	per foot,	60	Gold Pearl, not Burnished, $\frac{3}{8}$ in. wide, lining, per foot, 30
“ “ “	$\frac{3}{8}$ in. “ outside,	“	60	“ burnished, 1 in. wide, on white ground new. $\frac{3}{8}$ ft. 10c
Gold “ “	1 in. “ lining,	“	10c	See also page 138.



No. 820.—BRONZE ROPE PATTERN, either outside or lining, per foot, 6c.—See also page 138.



OUR No. 844.

OUR No. 844

Is similar to our No. 652 frame, except that the top, bottom and sides are of Burnished Variegated Bronze instead of gilt, and of slightly different pattern. They are made especially for us, and are the finest frames ever offered for the money.—PRICES THE SAME AS NO. 652.—See page 141.

ERRORS IN THIS CATALOGUE.

- Page 94, Our New Glass Trays, 5 $\frac{1}{2}$ x8 $\frac{1}{2}$, listed 50c. should be 40c.
- “ 99, Ground Glass, listed 2x7 should be 5x7.
- “ 99, Steel Glass Cutters, listed 25c. should be 15c.
- “ 101, Printing Frames 28x22, should read 18x22.
- “ 116, Negative Preservers 11x12, should read 11x14.
- “ 119, Number 0 Crayons listed at 75c. per doz., should be 95c. per doz.
- “ 122, 11x14 Pebble Mats, 6 $\frac{1}{2}$ x8 $\frac{1}{2}$ opening, should read 7 $\frac{1}{2}$ x9 $\frac{1}{2}$ opening.
- “ 124, Mat No. 2543x, several errors and new sizes, see first page of this Supplement.
- “ 134, Moulding No. 1869, listed 48c. per foot, should be 28c. per foot.
- “ 169, Stereo Cards listed price per 1090, should be price per 1000.

OFFICE OF

A. B. PAINE & CO.

FORT SCOTT, KAN., January 1st, 1889.

TO OUR FRIENDS AND PATRONS:

The year just past has gone by so rapidly to us, that it seems but a few days since we were writing the introductory to our catalogue for 1888. The old saying goes that “Time well spent flies quickly,” and if it also follows that time which flies quickly is well spent, we can only say that we hope that the year has passed as quickly with our friends as it did for us. Notwithstanding that it has been a presidential year, and that there has been some serious crop shortages in portions of our territory, we are pleased to announce that our sales were very much larger than ever before, with a prospect of a still greater percentage of increase in 1889.

On the 15th of last May Mr. F. Schultz, who had been a partner in the firm up to that time, disposed of his interest to Mr. W. T. Williams, who is known to many of our customers as having been with Mullet Bros., of Kansas City, ever since they opened business there. His assistance has been a material advantage to the business in various ways, and has tended to greatly improve many of our business relations. Mr. Schultz, in retiring, unites with us in returning thanks to all for past favors and patronage, and in wishing everybody a happy and prosperous year in 1889.

Most truly yours,

A. B. PAINE & CO.

LENSES.

Standard Sizes of all Popular Lenses Carried Regularly in Stock.

We will send Lenses on five to thirty days trial to responsible parties, all Express Charges to be paid by them. Parties unknown to us may have Lenses sent C. O. D., with privilege of examination, and five days trial, upon deposit of amount with their Express Agent.

Something About Lenses.

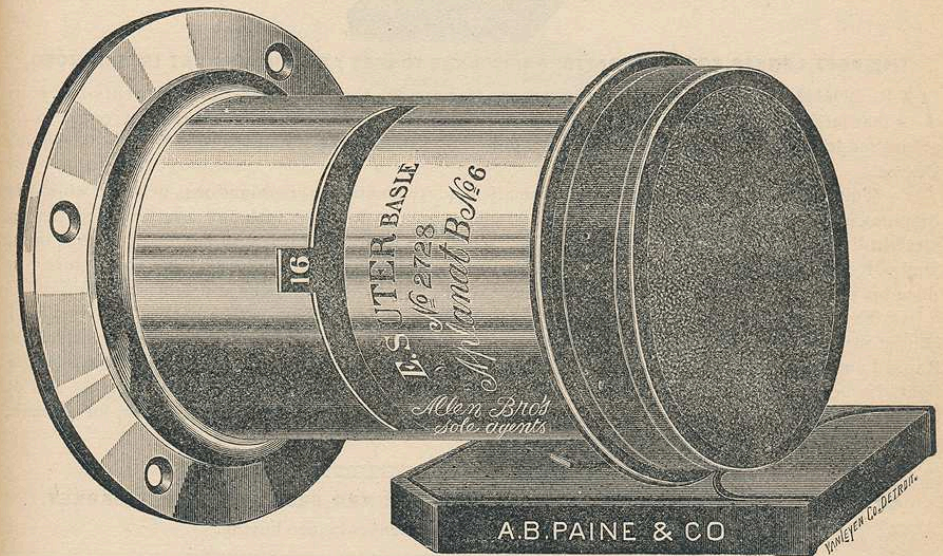
There is not a day passes that we do not receive several letters of inquiry regarding lenses—what kind to buy, and what each kind is adapted for. Now, while there are numberless makes of lenses on the market, there are practically but three kinds of double combination lenses made, viz: *The Portrait lens, the rapid aplanatic lens and the wide angle lens.* Whatever other names they may go under, these are the three primary principles of all known double objectives. The portrait lenses are fit for portraits only, but for portrait work they are far superior to any aplanatic lens made, and while one-half of the photographers are using Euryscopes and other aplanatic lenses for all their portrait as well as landscape work, the would find that their portrait work would be far more beautiful if they would go back to the old 4—4 Voigtlanders, Holmes Booth and Haydens, and even Darlots, that they cast aside for these same aplanatic lenses. The craze lately has been to have a lens that would answer for views as well as portraits. Of course, the Euryscope, the Becks, the Darlot hemispherical, the Suter, and a hundred others of the aplanatic principle, answer the purpose, but they are still wide of the mark. They are really ONLY FINE FOR LANDSCAPE AND GROUP WORK, while the third style mentioned, the wide angle lens, is never intended for anything but interior or architectural views, where it is impossible to get far enough away to use the aplanatic lens. No one lens will do everything. A race horse cannot plough, and vice versa. Use a portrait lens for portrait work, and a view lens for view work, and you will be successful in both, otherwise you cannot expect to be entirely successful in either.

APLANATIC LENSES

(FOR GENERAL WORK.)

THE CELEBRATED SUTER

For Groups, Landscapes and Architectural Subjects, this Lens has obtained a reputation unsurpassed by that of any other objective of similar construction.



This Lens is also used by thousands of Photographers in America and Europe, for PORTRAIT work, giving entire satisfaction. In fact it comes nearer being a perfect combination of View, Group and Portrait Lens than any ever made.

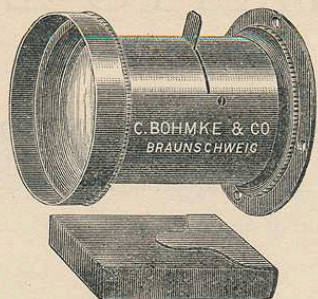
NOTE THE PRICES.

No.	Diam.	Focus.	FIELD.		Price—Net Cash.
	Inches.		Large Stop.	Small Stop.	
*1	3/4	4 1/4	Stereoscopic.		\$ 26 00
2	1	6 3/4	5 x 4	5 x 4	28 00
3	1	8 3/4	7 x 5	9 x 7	30 00
4	1 1/2	10 1/4	8 1/2 x 6 1/2	10 x 8	40 00
5	2	14 1/4	10 x 8	14 x 11	50 00
6	2 1/2	17 3/4	12 x 10	16 x 13	78 00
7	3 1/4	21 3/4	15 x 12	20 x 16	120 00
8	3 3/4	25 1/2	18 x 15	25 x 20	180 00

* May be had in pairs of exactly equal focus, for Stereoscopic purposes, at \$52.00 per pair.

C. BOHMKE & CO'S IMPROVED APLANATS.

GIVE THIS PAGE
YOUR
SPECIAL ATTENTION.



EXAMINE THE
PRICES.

THE BEST LENSES FOR PORTRAITS, RAPID LANDSCAPES AND GROUPS YET INTRODUCED.

MR. BOHMKE, who has been superintending foreman for Voigtlander and son for twenty-five years, has lately brought out the above designated instrument, which is in every respect equal to the "Euryscope," combining a large field, perfect definition and brilliant illumination in the highest possible degree.

This objective consists of two achromatic and symmetrical combinations, between which the diaphragm is placed. The Lens is perfectly aplanatic, *i. e.*, it works with full aperture, and renders straight lines perfectly. For the purpose of landscape photography, full length figures and heads in the studio, it is considered unrivaled. It is entirely free from distortion and "ghosts," and the picture produced is mathematically correct. It is characterized by great depth of focus and precise definition.

The most important advantage of this new Lens, in comparison with others of a similar kind, consist in the great power of light it commands, and for this reason it is recommended especially for Rapid Landscapes, Groups, Heads and full length figures. The pictures produced by it are brilliant, the light also being spread equally over the plate. The width of angle embraced is between 65 and 85 degrees, according to diaphragm used. This is the ideal Lens for drop shutter work, for animals, moving objects, etc., for the reasons given above.

IMPORTANT NOTICE.

GREAT REDUCTION IN PRICES. NOW THE CHEAPEST AND BEST LENS IN THE MARKET.

It will pay you to try one of these Lenses before buying.

Number.	Diameter of Lens.	Equivalent Focal Length.	Size Portrait or Group.	Size Landscape.	Price.
1	1 1-16 in.	4 3/4 in.	4 x 5	5 x 6	\$ 25 00
2	1 1/4 "	6 1/2 "	5 x 7	6 x 8	32 00
3	1 9-16 "	8 1/4 "	6 1/2 x 8 1/2	8 x 10	36 00
4	1 13-16 "	9 5-6 "	8 x 10	10 x 12	45 00
5	2 1-6 "	11 1/2 "	10 x 12	11 x 14	54 00
6	2 9-16 "	14 1/3 "	11 x 14	14 x 17	75 00
7	3 1/8 "	17 1/2 "	14 x 17	17 x 20	100 00
8	3 1/2 "	21 1/3 "	17 x 20	18 x 22	150 00
9	4 1/8 "	24 1/2 "	18 x 22	20 x 24	180 00
10	5 3-16 "	32 "	27 x 32	30 x 36	300 00

The back focus obtained with any size of the Aplanats by focusing on objects fifteen feet away, is nearly equal to the equivalent focus. *Send orders direct to us for above Lenses; we keep them in stock.*

TABLE OF DIMENSIONS REQUIRED FOR WORKING THE BOHMKE.

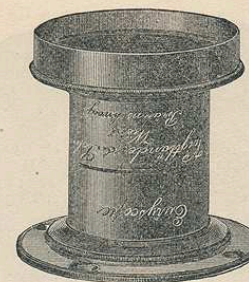
The distance from Camera to sitter for standing figure, say 5 inches long, on a cabinet :

- No. 3 requires about 12 feet.
- No. 4 requires about 14 feet.
- No. 5 requires about 18 feet.
- No. 6, 1/2 7inch Panel Picture, requires about 18 feet.

- No. 7, 10 1/2 inch Panel Picture, requires about 20 feet.
- No. 8, 12 inch Panel Picture, requires about 20 feet.
- No. 9, 15 inch Panel Picture, requires about 20 feet.
- For busts and half length figures you must be much nearer the sitter.

VOIGTLÄNDER'S REGULAR EURYSCOPE.

THIRD SERIES.



For Groups,

Standing Figures,

Large Heads,

Buildings,

Landscapes,

Out Door Work,

and Copying,

This most wonderful lens consists of two achromatic and symmetrical combinations, between which the diaphragms are placed. It is absolutely free from distortion, chemical focus and central flare ("Ghosts"), the picture produced with it being mathematically correct, and evenly illuminated to the four corners of the plate. A very careful choice of optical glass, composing this lens, renders it possible to secure a ratio of aperture and focus of about 1 to 6. The width of angle embraced is from 65 to 85 degrees, according to the size of plate and diaphragm used.

Size.	Diameter of Lens.	Equivalent Focal Length	Size Portrait or Group.	Size Landscape.	Price.
0	1 1-16 inch.	4 3/4 inch.	4 x 5 inch.	5 x 6 inch.	\$ 27 00
00	1 1/4 "	6 1/2 "	5 x 6 "	6 x 8 "	37 50
1	1 1/2 "	8 1/4 "	6 x 8 "	7 x 9 "	45 00
2	1 3/4 "	10 "	7 x 9 "	8 x 10 "	52 00
3	2 1-6 "	11 1/2 "	8 x 10 "	10 x 12 "	65 00
4	2 1/2 "	14 1/3 "	10 x 12 "	11 x 14 "	87 00
5	3 1/8 "	17 1/2 "	13 x 16 "	17 x 20 "	130 00
6	3 1/2 "	21 1/3 "	17 x 20 "	18 x 22 "	170 00
7	4 1/8 "	24 1/2 "	18 x 22 "	20 x 24 "	210 00
8	5 1/8 "	32 "	27 x 32 "	30 x 36 "	390 00

Nos. 0 and 00 can had in matched pairs for Stereoscopic work.

(The equivalent focus of each lens is given in German inches—as calculated by Voigtlander—a German inch being but a trifle longer than the English inch.)

The back-focus, obtained with any size Euryscope by focusing on objects fifteen feet away, is nearly equal to the equivalent focus.

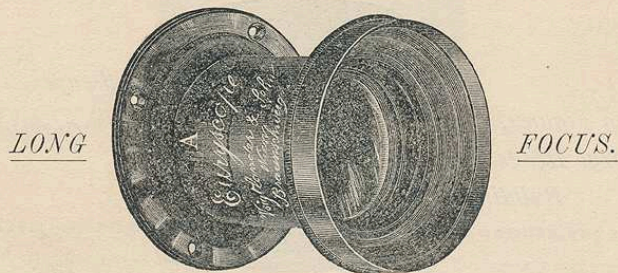
ESTIMATED DISTANCES REQUIRED FOR WORKING THE EURYSCOPE.

The distance for Camera to sitter for standing figure, say five inches long, on a cabinet :

- | | |
|---|--|
| No. 1 requires about 12 feet. | No. 5, 10 1/2 in. Panel picture, requires about 20 feet. |
| " 2 " " 14 " | " 6, 12 " " " " 20 " |
| " 3 " " 18 " | " 7, 15 " " " " 20 " |
| " 4, 7 1/2 in. Panel picture, requires about 18 feet. | |

For busts and half-length figures you must be much nearer the sitter.

VOIGTLANDER'S EURYSCOPE.



FOURTH SERIES (A.)

THIS EURYSCOPE is constructed with a longer focus than the Regular Euryscope, and not only covers a larger plate, but gives an increased depth of focus and flatter field, qualities which render it a superior Lens for BUILDINGS, LANDSCAPES, INSTANTANEOUS WORK and COPYING. In well lighted Studios of adequate length it is one of the best Lenses for GROUPS, STANDING FIGURES and LARGE HEADS, as, on account of the increased distance from the sitter it produces more correct proportions and better perspective. For rapid gallery work, however, it is not equal to the REGULAR Euryscope.

Sizes and Prices.

FOURTH SERIES (A.)

Number.	Diameter of Lens.	Equivalent Focal Length	Size.—Full Opening.	Size.—Smallest Stop.	Price.
	INCHES.	INCHES.	INCHES.	INCHES.	
oA	1	6	4 x 5	5 x 7	\$30 00
ooA	1 1/4	8 1/4	5 1/2 x 7 1/2	7 x 9	40 00
1A	1 1/2	10 3/4	6 1/2 x 8 1/2	8 x 10	52 00
2A	1 3/4	13	8 x 10	10 x 12	64 00
3A	2	16	10 x 12	11 x 14	80 00
4A	2 1/2	20	12 x 15	14 x 17	110 00
5A	3	24	16 x 18	17 x 20	157 00
6A	3 1/2	28	18 x 22	20 x 24	208 00
7A	4	32	20 x 24	24 x 30	240 00

No. oA can be had in matched pairs for Stereoscopic work.

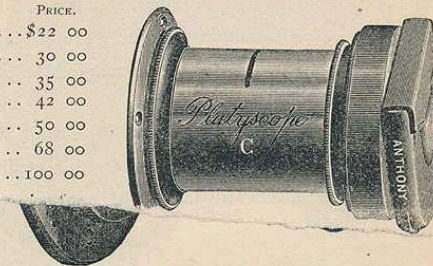
Every genuine Euryscope is marked "Voigtlander & Sohn."

PLATYSCOPE LENS.

REDUCED PRICES.

Unequaled, at the price, for all kinds of out-door work, groups, etc. Most excellent for full length figures and large heads, working with full aperture, and giving great depth of focus, with equal distribution of light. The sizes and prices are :

No.	Equiv. Focus.	SIZE OF VIEW.	PRICE.
A.....	6 inches	5 1/2 x 5 1/2 inches	\$22 00
B.....	7 1/2 "	7 x 9 "	30 00
C.....	9 3/4 "	10 x 12 "	35 00
D.....	11 1/2 "	11 x 13 "	42 00
E.....	13 "	11 x 14 "	50 00
F.....	16 1/2 "	14 x 17 "	68 00
G.....	"	17 x 20 "	100 00



ially the larger sizes, from No. 4 up. When used with the Modern Dry plate they will equal the best Portrait Lenses in rapidity, while, with their full opening, they have wonderful depth and microscopic sharpness.

The Rectigraphic is superior to any lens in the market in flatness of field, and is the only one that can be focussed sharp at the extreme edge of the field, being from astigmatism.

Each Lens is supplied with a set of Diaphragms in a Morocco Case.

We would call the attention of all Photographers to the fact that all first-class lenses, with the exception of the Rectigraphic, are made in Europe. The duty on Lenses is high, and is more than saved to the purchaser of the Rectigraphic.

Number.	Size of Plate.	Size of Portrait.	Diameter of Lenses.	Back Focus.	Equivalent Focus.	Price.
1	4 x 5	3 1/4 x 4 1/4	1	5 3/8	6 1/4	\$ 20 00
2	5 x 8	4 x 6	1 1/4	7 1/2	8	30 00
3	6 1/2 x 8 1/2	5 x 8	1 1/2	9 1/2	10	38 00
4	8 x 10	6 1/2 x 8 1/2	1 3/4	11	12	50 00
5	10 x 12	8 x 10	2	13 1/8	14 1/4	64 00
6	11 x 14	10 x 12	2 1/4	15 1/4	16 1/2	76 00
7	14 x 17	12 x 15	2 5/8	17 1/2	19	125 00
8	17 x 20	16 x 18	3	20	22	150 00

DARLOT RAPID HEMISPHERICAL VIEW LENSES.



These Lenses embrace an angle of from sixty to seventy-five degrees ; are quick-acting, perfectly rectilinear and provided with central stops. Will be found very fine lenses for landscapes and out-door groups ; also for copying engravings, maps, architectural subjects, etc.

BACK FOCUS.	SIZE VIEW.	PRICE.
No. 1, 5 1/2 inches,	5X 6.....	\$15 00
" 2, 9 "	5X 8.....	25 00
" 3, 10 1/2 "	8X10.....	35 00
" 4, 14 "	11X14.....	50 00

BACK FOCUS	SIZE VIEW.	PRICE.
No. 5, 18 inches,	14X17.....	\$76 00
" 6, 21 "	17X20.....	90 00
" 7, 32 "	20X24.....	200 00

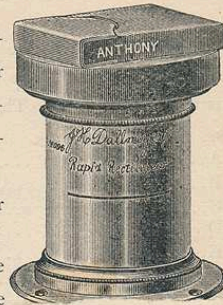
No. 1 can be had in matched pairs for stereoscopic work.

Dallymeyer's Rapid Rectilinear Lenses, Patent.

This Lens is constructed to embrace angles of pictures from 60 to 80 degrees. It admits of being used with the full opening, when it possesses four times greater rapidity than the Wide-angle Rectilinear. It is therefore invaluable for dimly lighted interiors, and for all kinds of quick out-door photography—i. e., for instantaneous effects, groups, landscapes, etc.

If required, any of the Lenses marked below can be used with smaller stops for the next size larger view.

N. B.—It is recommended that all Rapid Rectilinear Lenses above the 10 x 12 size should always be *focused* with a medium stop (No. 3), whether the picture is to be afterwards taken with a larger or small ~~greatest possible~~



FOURTH SERIES (A.)

THIS EURYSCOPE is constructed with a longer focus than the Regular Euryscope, and not only covers a larger plate, but gives an increased depth of focus and flatter field, qualities which render it a superior Lens for BUILDINGS, LANDSCAPES, INSTANTANEOUS WORK and COPYING. In well lighted Studios of adequate length it is one of the best Lenses for GROUPS, STANDING FIGURES and LARGE HEADS, as, on account of the increased distance from the sitter it produces more correct proportions and better perspective. For rapid gallery work, however, it is not equal to the REGULAR Euryscope.

Sizes and Prices.

FOURTH SERIES (A.)

Number.	Diameter of Lens.	Equivalent Focal Length	Size.—Full Opening.	Size.—Smallest Stop.	Price.
	INCHES.	INCHES.	INCHES.	INCHES.	
oA	1	6	4 x 5	5 x 7	\$30 00
ooA	1 1/4	8 1/4	5 1/2 x 7 1/2	7 x 9	40 00
1A	1 1/2	10 3/4	6 1/2 x 8 1/2	8 x 10	52 00
2A	1 3/4	13	8 x 10	10 x 12	64 00
3A	2	16	10 x 12	11 x 14	80 00
4A	2 1/2	20	12 x 15	14 x 17	110 00
5A	3	24	16 x 18	17 x 20	157 00
6A	3 1/2	28	18 x 22	20 x 24	208 00
7A	4	32	20 x 24	24 x 30	240 00

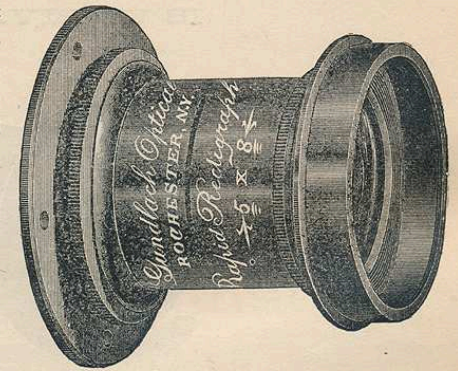
No. oA can be had in matched pairs for Stereoscopic work.

Every genuine Euryscope is marked "Voigtlander & Sohn."

GUNDLACH RAPID RECTIGRAPHIC LENSES.

The splendid qualities of the RECTIGRAPHIC (it being constructed on a principle superior to that employed in the construction of any other photographic lens in the market,) have won for it, in the short time it has been before the photographic public, a well recognized place in the front rank of photographic objectives.

It possesses all the qualities required to make it equally valuable for either Landscape or Group Work. For the latter purpose we recommend especially the larger sizes, from No. 4 up. When used with the Modern Dry plate they will equal the best Portrait Lenses in rapidity, while, with their full opening, they have wonderful depth and microscopic sharpness.



The Rectigraphic is superior to any lens in the market in flatness of field, and is the only one that can be focussed sharp at the extreme edge of the field, being from astigmatism.

Each Lens is supplied with a set of Diaphragms in a Morocco Case.

We would call the attention of all Photographers to the fact that all first-class lenses, with the exception of the Rectigraphic, are made in Europe. The duty on Lenses is high, and is more than saved to the purchaser of the Rectigraphic.

Number.	Size of Plate.	Size of Portrait.	Diameter of Lenses.	Back Focus.	Equivalent Focus.	Price.
1	4 x 5	3 1/4 x 4 1/4	1	5 7/8	6 1/4	\$ 20 00
2	5 x 8	4 x 6	1 1/4	7 1/2	8	30 00
3	6 1/2 x 8 1/2	5 x 8	1 1/2	9 1/2	10	38 00
4	8 x 10	6 1/2 x 8 1/2	1 3/4	11	12	50 00
5	10 x 12	8 x 10	2	13 1/8	14 1/4	64 00
6	11 x 14	10 x 12	2 1/4	15 1/4	16 1/2	76 00
7	14 x 17	12 x 15	2 5/8	17 1/2	19	125 00
8	17 x 20	16 x 18	3	20	22	150 00

DARLOT RAPID HEMISPHERICAL VIEW LENSES.



These Lenses embrace an angle of from sixty to seventy-five degrees; are quick-acting, perfectly rectilinear and provided with central stops. Will be found very fine lenses for landscapes and out-door groups; also for copying engravings, maps, architectural subjects, etc.

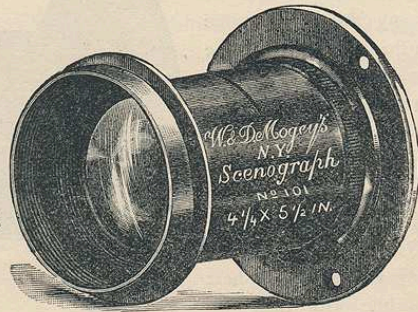
BACK FOCUS.	SIZE VIEW.	PRICE.	BACK FOCUS.	SIZE VIEW.	PRICE.
No. 1, 5 1/2 inches,	5X 6.....	\$15 00	No. 5, 18 inches,	14X17.....	\$76 00
" 2, 9 "	" 5X 8.....	25 00	" 6, 21 "	" 17X20.....	90 00
" 3, 10 1/2 "	" 8X10.....	35 00	" 7, 32 "	" 20X24.....	200 00
" 4, 14 "	" 11X14.....	50 00			

No. 1 can be had in matched pairs for stereoscopic work.

W. & D. MOGEY'S RAPID SCENOGRAPH.

IS UNRIVALLED FOR

Sharpness,
Depth of Focus,
and Rapidity.



Landscapes,
Groups,
Portraits,
Copying, &c.

Parties desiring a First-Class American Lens at a Reasonable Price are requested to try the Scenograph before buying any other.

In presenting our Photographic Objective to the public, we are not unmindful of the reputation attached to the more costly Objectives of foreign makers, and the many failures of others to produce their equal; we claim to have not only produced their equal, but in the correction of Astigmatism have made it preferable, and are confident that it will receive from Professional and Amateur Photographers that approval of excellency that has characterized our Astronomical Telescopes.

This Objective consists of two achromatic combinations, constructed on an entirely new formulae, and the same scientific skill which has made our Telescopic Objective superior to foreign make is devoted to this objective. The most important advantage of this Objective over others is the correction of Astigmatism, by which greater sharpness and depth are produced, and illumination is more evenly distributed; this fact is proven in Group Portraiture, in which persons at the margin of the field are as sharply defined as those in the centre, there being no falling off in definition.

It is perfectly Aplanatic, covering with full aperture, the size of plate laid down in the list, and a size larger when stopped down.

It is very rapid in action, rendering it valuable for instantaneous exposures.

The Diaphragms or stops are made in accordance with the system universally adopted, in which each stop gives half the illumination of the next size larger, and requiring double the time of exposure.

PRICE LIST OF THE SCENOGRAPH LENSES.

Number.	Size of Plate.	Diameter of Lens.	Back Focus.	Equivalent Focus.	Price.
*1	4 1/4 x 5 1/2 in.	1 in.	6 in.	6 3/4 in.	\$ 25 00
2	5 x 8 "	1 1/4 "	8 "	8 3/4 "	30 00
3	6 1/2 x 8 1/2 "	1 1/2 "	10 1/4 "	11 "	38 00
†4	8 x 10 "	1 3/4 "	12 1/4 "	13 "	50 00
5	10 x 12 "	2 "	14 1/2 "	16 "	65 00
6	11 x 14 "	2 1/4 "	16 3/4 "	18 "	85 00
7	14 x 17 "	3 "	22 "	24 "	140 00
8	20 x 22 "	3 3/4 "	27 1/2 "	30 "	175 00

* No. 1 can be had in pairs for Stereoscopic work.

† No. 4 will make life size Portraits.

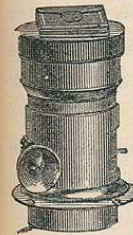
PORTRAIT LENSES.

Darlot Lenses.

These Lenses are by far the best FOR THE MONEY that are made. We sell only the genuine, which have "Darlot" on edge of Lenses.

Darlot Portrait Lenses.

RACK AND PINION, CENTRAL STOPS.



1-4 size, 4 1/2 in. focus	\$ 8 75
1-3 " 5 1/2 "	14 50
1-2 " 7 "	17 50
4-4 " for 8-10 plates, 10 1/2 inch focus	35 50
8-4 " for 11-14 " 15 "	105 00

Darlot Quick-Working Lenses.

RACK AND PINION, WITH CENTRAL STOPS.

1-2 size, 5 1/2 in. focus	\$22 00
4-4 " 8 1/2 "	43 00
Extra 4-4 size, for 8 x 10 plates, 11 1/2 in. focus	85 00

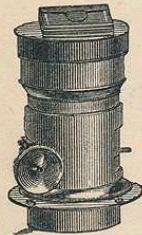
Darlot Gem Lenses.



1-9 size (usually sold in sets of 4), each	\$ 2 50
1-4 " " " " " " " " " " " "	4 00
Per set of 4	15 00
Brass Plates for 4 1-9 Gems, each	1 25
" " 4 1-4 " " " " " " " " " "	1 35

GENUINE VOIGTLANDER & SON'S.

For Portraits and Groups.



Received direct from the United States Agent.

All our Lenses are provided with central stops. It is to be observed that at all events one of the diaphragms must be used, as otherwise side or top light would enter through the slit; when no diaphragming is required, insert the largest stop.

To prevent the glasses, composing the back lens, from being replaced in a wrong way when taken out to be cleaned, observe that the double convex lens is to be put in the cell first, the flatter side downwards; then follows the ring, and lastly the second lens, with the concave side inwards. Care must be taken that the ring which holds the glasses in the cell is not screwed down too tightly.

The No. 6 Portrait Lenses, and all smaller sizes, are now so constructed that they can be used for making views by taking out the back lens and screwing the front lens in its place, and using the small stops.

NOTE.—The first series of quick-acting lenses will be found the best for general work, and now work sufficiently quick when dry plates are used.

The second series (B) are very rapid-working lenses, and very desirable for taking children or for making pictures in dark weather, as many times fine pictures can be obtained with these lenses where some of a longer focus would fail.

No. 5-A, of the third series, is a most desirable lens for 8 x 10 and smaller plates, especially when a larger one cannot be afforded.

In determining the size of a picture, it is well to bear in mind that the image of the person should not occupy more than half the extent of the plate which the objective is capable of covering.

The smallest available lens for cabinet work is No. 5, which requires a length of studio 20 feet. The same length is necessary for No. 6-B, which produces the size plate as No. 5, but, as it embraces a greater angle, the resulting picture shows better definition near the edges, and is marked, too, by a superior plastic effect, (roundness) while its rapidity of action exceeds that of No. 5. But the proper instruments for cabinet pictures are Nos. 6, 7 and 7-B, which requires 26 feet and 30 feet operating room, respectively. When the illuminating power is of minor consideration, and the question is to obtain the least expensive instrument for cabinet pictures, No. 5-A should be selected. Possessing excellent focal depth, this lens is very useful for making groups; requisite length of gallery, 26 feet.

Price List of Voigtlander's Portrait Lenses FIRST SERIES.

Of Normal Power of Light. Quick Working.

No. 1.	Double-objective, of $1\frac{3}{8}$ inch diameter (back focus 4 inches), with rack and pinion movement and central stops; suitable for plates $4\frac{1}{4} \times 3\frac{1}{4}$ inches	\$ 33 00
No. 2.	Double-objective, of 1 5-6 inch diameter (back focus $4\frac{1}{2}$ inches), with rack and pinion movement and central stops; suitable for plates 5x4 inches	41 50
No. 3.	Double-objective, of $2\frac{1}{8}$ inches diameter (back focus 5 inches), with rack and pinion movement and central stops; suitable for plates $5\frac{1}{2} \times 4\frac{1}{4}$ inches	50 00
No. 4.	Double-objective, of 2 5-6 inches diameter (back focus $6\frac{1}{2}$ inches), with rack and pinion movement and central stops; suitable for plates $7 \times 5\frac{1}{4}$ inches	72 00
No. 5.	Double-objective, of $3\frac{1}{8}$ inches diameter (back focus 8 inches), with rack and pinion movement and central stops; suitable for plates $8\frac{1}{2} \times 6\frac{1}{2}$ inches	90 00
No. 6.	Double-objective, of $3\frac{1}{2}$ inches diameter (back focus 9 inches), rigid mounting, with central stops; suitable for plates 10x8 inches	130 00
No. 7.	Double-objective, of $4\frac{1}{2}$ inches diameter (back focus 14 inches), rigid mounting, with central stops; suitable for plates 14x12 inches	160 00

SECOND SERIES.

Lenses of Great Illuminating Power; Rapid-Working.

No. 0.	Double-objective, of $\frac{3}{4}$ inch diameter (back focus 2 inches), rigid mounting	\$ 27 00
No. 3-B.	Double-objective, of $2\frac{1}{4}$ inches diameter (back focus $4\frac{1}{2}$ inches), with rack and pinion movement and central stops; suitable for plates 5x4 inches	57 00
No. 4-B.	Double-objective, of 2 5-6 inches diameter (back focus $5\frac{1}{2}$ inches), with rack and pinion movement and central stops; suitable for plates $6\frac{1}{4} \times 5\frac{3}{4}$ inches	78 00
No. 5-B.	Double-objective, of $3\frac{1}{3}$ inches diameter (back focus $6\frac{1}{2}$ inches), with rack and pinion movement and central stops; suitable for plates $7 \times 5\frac{3}{4}$ inches	90 00
No. 6-B.	Double-objective, of $3\frac{1}{2}$ inches diameter (back focus 8 inches), rigid mounting, with central stops; suitable for plates $8\frac{1}{2} \times 6\frac{1}{2}$ inches	130 00
No. 7-B.	Double-objective, of $4\frac{1}{4}$ inches diameter (back focus 11 inches), rigid mounting, with central stops; suitable for plates 12x10 inches	160 00

THIRD SERIES.

Lenses of Less Rapidity, but of Greater Focal Depth.

No. 5-A.	Double-objective, of $3\frac{1}{8}$ inches diameter (back focus 9 inches), with rack and pinion movement and central stops; suitable for plates 10x8 inches	\$ 90 00
No. 8.	Double-objective, of $5\frac{1}{4}$ inches diameter (back 16 inches), rigid mounting, with central stops; suitable for plates 16x13 inches	290 00
No. 9.	Double-objective, of $6\frac{1}{4}$ inches diameter (back focus 20 inches), rigid mounting, with central stops; suitable for plates 20x17 inches	435 00

We give the back focus of the different sizes by focusing on an object about 20 feet distant.

PORTRAIT LENSES--Continued.



The Morrison "Full Figure" Portrait Lens.

Price..... \$90 00

THE "PEERLESS" PORTRAIT LENS.

"PEERLESS" QUICK-ACTING.

- No. 1-A. ¼ size, Double Achromatic Lenses, 2½ inch diameter, focal length 4 inches, rack and pinion, and fitted with a full set of Waterhouse Diaphragms in morocco case..... \$ 25 00
- No. 2-A. ½ size, Double Achromatic Lenses, 2½ inches diameter, focal length 7 inches, rack and pinion, and fitted with a full set of Waterhouse Diaphragms in morocco case.... 40 00
- No. 3-A. 4-4 size, Double Achromatic Lenses, 3 inch diameter, focal length 9 inches, rack and pinion, and fitted with a full set of Waterhouse Diaphragms in morocco case..... 60 00

These Lenses are guaranteed first-class in every respect.

EXTRA RAPID "PEERLESS" LENSES.

Our readers will observe a reduction in the prices of these very popular lenses, *i. e.*, 4-4 size, reduced to \$85.00 instead of \$90.00, and Extra 4-4 to \$160 instead of \$200.00.

This change is only possible on account of increased facilities and larger demand for the lenses. Every lens guaranteed to give satisfaction, or no sale.

Size.	Diam.	Back Focus.	Price.
½ Rack and Pimon.....	2½ inches.....	6½ inches.....	\$ 60 00
4-4 Rigid Mounting.....	3½ ".....	8 ".....	85 00
Ex. 4-4 Rigid Mounting.....	4 ".....	12 ".....	160 00

These Lenses work with an aperture the full size of the Lens, and being short focus, are very rapid. They give perfect definition with great depth of focus.

THE NEW LEUKOSCOPE LENS.

The name given to the Lens just introduced by Mr. Richard Morrison is singularly appropriate: Leukoscope indicating a *brilliant light*. It works with greater rapidity than any of the so-called rapid lenses, and possesses a depth of focus truly remarkable. By its agency portraits having life-sized heads may be taken with sharpness and delicacy. For a 17x20 or 18x22 portrait it is invaluable. The construction is such as to ensure equal illumination all over the plate, which cannot be effected by any lens set in a long tube and worked with full aperture. When used with a medium diaphragm it will take an instantaneous group out of doors, every figure being sharp.

The price at which this lens is offered is very reasonable.

Number.	Diameter.	Size of Group.	Size of Landscape.	Back Focus.	Price.
1	4 in.	18x22	25x30	32 in.	\$180 00
2	4 "	17x20	20x24	25 "	170 00
3	3½ "	16x18	17x20	21 "	150 00
4	3 "	11x14	14x17	18 "	100 00

PORTRAIT LENSES--Continued.

DALLMEYER PORTRAIT LENSES.



The first requirement in making Photographs of great merit, whether for Portraiture, Landscapes, Agricultural views, or Copying, is a lens that, in skilled hands, promises the very best results. Many who excel select Dallmeyer lenses, and pronounce them indispensable.

The PATENT PORTRAIT combinations have an adjustment of the back lens, by which a diffusion of focus or depth of definition is obtained. This is not found in any other make. They also have a full set of the Waterhouse Diaphragms in Morocco cases.

An advance of about 2½ per cent., on account of increased government duty, July, 1883.

Dallmeyer's Patent Portrait Lenses (B).

QUICK-ACTING LENSES.

- No. 3-B. PATENT LENS, with rack and pinion movement. Diameter of Lenses, 3½ in. and back focus 8 in. Especially constructed for the NEW CABINET Portraits. Distance between subject and Lens for a standing figure, 18 feet..... \$164 00
- No. 4-B. DITTO, DITTO. Diameter of Lenses 4½ in., and back-focus, 12 in., for pictures 8½x6½ inches. Distance for a Cabinet Portrait, 25 feet..... 328 00

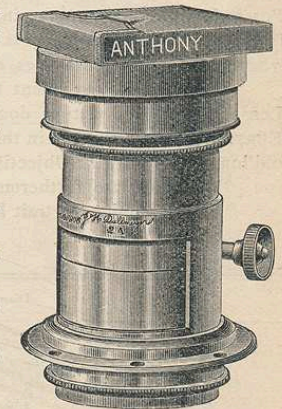
Dallmeyer's Patent Portrait Lens (A).

Of the Ordinary Intensity or Rapidity.

For Portrait work these are two times quicker than the D, and three times faster than the Rapid Rectilinear series. The 3-A will cover a 10x12 plate nicely, other sizes in proportion.

- No. 1-A*. PATENT LENS, with rack and pinion movement. Diameter of front and back combinations 2¾ and 2½ inches respectively, and 6½ in. back focus, for pictures 5x4 in. . . \$106 50
- No. 2-A*. DITTO, DITTO. Diameter of front and back combination 3½ and 3¼ inches respectively; 10 in. back focus; for pictures of 6½x4¾ inches..... 148 00
- No. 3-A*. DITTO, DITTO. Diameter of Lenses 4 in. and 12 in. back focus; for pictures 8½ x 6½ inches..... 224 00
- No. 4-A. DITTO, DITTO. Diameter of Lenses 4½ in. and 14 in. back focus; for pictures 10x8..... 316 00
- No. 5-A. IN RIGID MOUNT. Diameter of Lenses 5 in. and 18 in. back focus; for pictures 15x15 and under..... 410 00
- No. 6-A. DITTO, DITTO. Diameter of Lenses 6 in. and 22 in. back focus, for pictures 20x16 and under..... 492 00

*These Lenses are well adapted for the New Cabinet Portraits, according to length of gallery. This, No. 1-A requires a distance of 14 feet between subject and lens (not recommended if a longer focus lens can be used), No. 2-A, 20 feet, and No. 3-A, 24 feet.



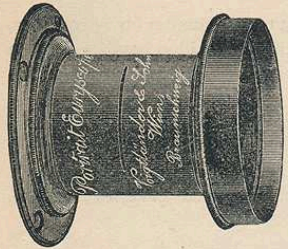
Dallmeyer's "Extra" Quick-Acting Portrait Lenses.

Possessing the greatest possible rapidity consistent with perfect definition. Especially constructed for Portraits of Children, but generally useful also for Vignettes, Cartes de Visits, Locket Portraits, etc.

- No. 1-C. Portrait Lens, with rack and pinion movement; the lenses 2¾ in. diameter and 4½ in. focal length from the back glass; for pictures on plates 4¼x3¼ inches and under... \$129 00
This lens produces pictures in one-half the time of No. 1-B (long), but the field of view is not so flat; hence, for standing figures, a stop must be used.
- A Miniature Lens. DITTO, DITTO. The lenses 1¼ inch and 1¾ inch diameter respectively, and 2 inch focus from the back glass; for pictures on plates 2x2 inches, and when used with stops, for 3¼x2¾ inches..... 47 00
- A Medallion Lens. Diameter of combination ¾ inch, back focus 1 inch, in a rigid mount, without stops..... 20 50

The New Portrait Euryscopes.

The Latest Achievement in Portrait Lenses.



Unlike the regular Portrait Lenses, the front combination of which consists of one compound Lens and the rear combination of two separate Lenses of quite dissimilar shape, these new Lenses are composed of two perfectly symmetrical and cemented combinations, similar to the Euryscopes, and offer several important advantages.

By sealing the two separate Lenses of the rear combination, the number of reflecting surfaces is reduced, thus saving a considerable amount of light formerly lost, and as, moreover, all diffusion of light is obviated, the new Lenses produce more brilliant pictures and improved definition.

The front and back combinations being perfectly symmetrical, superior marginal definition and perfectly even illumination of the plate can be obtained, and, with the same length of focus as heretofore, a larger field is covered and the size of the image increased, the resulting picture being absolutely free from distortion.

The PORTRAIT EURYSCOPES are divided into two series as regards their working rapidity. The first corresponds in ratio of aperture to focal length, to the Portrait Lenses of normal speed, but excels them in covering capacity, depth of focus and powers of definition.

The SECOND SERIES—and these will be found the most useful—have an increased length of focus, and are consequently less rapid, but sufficiently quick-working for all ordinary Portrait work in the studio. Possessing, too, greater covering capacity (increased size of field) and greater depth of focus than the first series, this second series is specially adapted to taking groups and full length figures in short studios where the regular Euryscopes, on account of their longer focus, may not be available.

They are also excellent for Instantaneous Work, inasmuch as the flare characterizing Portrait Lenses when used out of doors, does not exist. In point of fact, this construction of the PORTRAIT EURYSCOPES will fill a gap in the series of existing Lenses, and as they are lighter and shapelier than the old long-focus Portrait Objectives, they will become great favorites.

We would state, furthermore, that no change will be made in the present style of Euryscope Lenses. Every genuine Portrait Euryscope is marked "Voigtlander & Sohn."

FIRST SERIES.

Number.	Diameter.	Equivalent Focus.	Size of Plate.	Price.
3	2 in.	7 2/3 in.	4 1/2 x 6	\$ 62 00
4	2 1/2 "	9 3/4 "	6 x 7 1/2	86 00
5	3 "	11 1/2 "	8 x 10	116 50
6	3 1/2 "	14 "	10 x 12	145 00
7	4 "	17 1/2 "	12 x 15	175 00

Nos. 3, 4 and 5 have Rack and Pinion Movement. Nos. 6 and 7 mounted in rigid settings.

SECOND SERIES.

Number.	Diameter.	Equivalent Focus.	Size of Plate.	Price.
1-A	1 1/2 in.	6 1/2 in.	3 1/2 x 4 1/2	\$ 45 00
2-A	1 3/8 "	7 1/2 "	4 1/2 x 6	55 00
3-A	2 "	8 2/3 "	5 x 8	70 00
4-A	2 1/2 "	10 5/6 "	6 1/2 x 8 1/2	95 00
5-A	3 "	13 "	10 x 12	130 00
6-A	3 1/2 "	15 1/2 "	11 x 14	186 50
7-A	4 "	19 1/3 "	14 x 17	226 50
8-A	5 "	25 "	17 x 20	426 50

All these are mounted in rigid settings.

Wide Angle Lenses.

BECK'S AUTOGRAPH WIDE-ANGLE LENSES.



These lenses embrace an angle of fully 100°; they are mounted in rigid settings or tubes, and furnished with ROTATING diaphragm plates, the stops of which bear the same number and ratio as those of the "Autograph" Rectilinear series. The No. 1 size can be had in matched pairs for stereoscopic work.

Number.	Size of Plate.	Back Focus.	Equivalent Focus.	Angle of Apert're Deg.	Price.
1	4 1/4 x 5 1/2	2 3/8	3	100	\$ 25 00
2	5 1/2 x 7	3 3/8	4	100	30 00
3	6 1/2 x 8 1/2	4 3/4	5	100	37 50
4	10 x 12	6 1/2	7	100 1/2	50 00
5	12 x 15	...	8 1/2	100	65 00

Darlot Hemispherical Wide-Angle Rectilinear View Lenses.



These Lenses embrace an angle of 90 degrees, and are invaluable for taking views of buildings, interiors, etc., in confined situations, where those of longer focus cannot be worked.

No.	Back Focus.	Size View.	Price.
1	2 1/2 in.	for stereoscopic work	\$ 12 50
2	3 "	5 x 8	15 00
3	5 "	8 x 10	20 00
4	8 "	10 x 12	25 00
5	12 "	14 x 17	35 00
6	16 "	17 x 20	50 00



Voigtlander's Wide Angle Euryscope.

FIFTH SERIES.

Nos. 00 to 4, inclusive, are provided with rotating stops, all fitting into the same size flange.

Number.	Aperture of Lens.	Equivalent Focal Length.	Size Plate with Full Aperture.	Size Plate with Smallest Stop.	Price.
00	5-12 in.	3 1/4 in.	3 x 4 in.	4 x 5 in.	\$ 27 00
0	6-12 "	4 1/6 "	4 x 5 "	5 x 6 "	29 00
1	7-12 "	5 1/3 "	5 x 7 "	5 x 8 "	34 00
2	8-12 "	6 1/3 "	5 x 7 "	6 x 8 "	39 00
3	9-12 "	7 1/3 "	6 x 8 "	8 x 10 "	48 00
4	1 "	9 "	8 x 10 "	10 x 12 "	65 00
5	1 1/4 "	16 "	11 x 14 "	14 x 18 "	82 00
6	1 1/2 "	20 "	14 x 18 "	17 x 20 "	100 00
7	1 3/4 "	25 "	17 x 20 "	20 x 24 "	130 00
8	2 "	32 "	20 x 24 "	24 x 36 "	225 00

MORRISON'S WIDE-ANGLE VIEW LENSES.

(PATENTED MAY 21, 1872.)



These Lenses have been greatly improved recently and are perfectly achromatic and absolutely rectilinear; they embrace an angle of fully 100 degrees, and are the most rapid WIDE-ANGLE Lenses made.

They are supplied with revolving diaphragms, the openings of which are adapted to the focal length of their respective Lenses.

Where only a limited field is required, the full aperture may be used, while with the smaller stops perfect definition is obtained to the margin of the next larger size picture than is named for each respective Lens in the list below.

No. 00 to No. 5 can be had accurately matched in pairs for Stereos, and if required can be supplied to work four on a plate.

The shorter focused Lenses are especially adapted for street or other views in confined situations. For general stereo work a pair of No. 5 Lenses will be found most useful.

Number.	Diameter of Lens.	Size of Plate.	Equivalent Focus.	Price.
00	3/4 inch.	2 1/4 x 2 1/2	1 3/4 inch.	\$ 25 00
0	3/4 "	3 x 3	2 1/4 "	25 00
1	3/4 "	4 x 4	3 "	25 00
2	1 "	4 x 5	3 1/2 "	25 00
3	1 "	4 1/2 x 7 1/2	4 1/4 "	25 00
4	1 "	5 x 8	5 1/4 "	25 00
5	1 "	6 1/2 x 8 1/2	6 1/2 "	25 00
6	1 "	8 x 10	8 "	30 00
7	1 1/4 "	11 x 14	10 1/2 "	40 00
8	1 1/4 "	14 x 17	14 "	60 00
9	1 1/2 "	17 x 20	17 "	80 00
10	1 1/2 "	20 x 24	22 "	120 00

Nos. 00, 0 and 1 fit into one flange. Nos. 2, 3, 4, 5 and 6 fit into one flange. Nos. 7 and 8 fit into one flange. Nos. 9 and 10 fit into one flange.



Dallmeyer's Wide-Angle Rectilinear Lenses.

PATENT.

These Lenses embrace angles of pictures from 90 to 100 degrees, and enable photographers to take views of buildings, interiors, etc., in confined situations, where Lenses of longer focus cannot be used, and where absolute rectitude of lines is imperative.

Number.	Largest Dimensions of Plate	Dia. Front Combination.	Back Focus.	Equivalent Focus.	Price.
I-AA*	7 1/2 x 4 1/2	7/8 in.	3 1/2 in.	4 in.	\$ 37 00
I-A	8 1/2 x 6 1/2	1 1/4 "	4 5/8 "	5 1/4 "	45 00
1	12 x 10	1 1/2 "	6 3/4 "	7 "	61 00
2	15 x 12	2 "	7 1/2 "	8 1/2 "	86 00
3	18 x 16	2 1/2 "	11 "	13 "	115 00
4	22 x 20	3 "	14 "	15 1/2 "	164 00

* This Lens is also well adapted for stereoscopic views.

Dallmeyer's New Wide-Angle Landscape Lens.--Patent.

The Lenses are mounted in "Rigid" Tubes or Settings, with "Rotating" Stops.

Number.	Size of Plate.	Diameter of Lenses.	Equivalent Focus.	Price.	Remarks.
I-A	5 x 4	1 3/8	5 1/4	\$ 26 50	No. 1-A and No. 1 are made to screw into the same flange as No. 1 Triple Achromatic Lens.
1	7 1/4 x 4 1/2	1 5/8	7	31 00	
2	8 1/2 x 6 1/2	1 7/8	8 1/2	37 00	
3	10 x 8	2 1/8	10	45 00	
4	12 x 10	2 1/2	12	57 50	
5	15 x 12	2 5/8	15	70 00	Nos. 2 and 3 screw into No. 2 Triple Achromatic flange.
6	18 x 16	3	18	86 00	
7	22 x 20	3 5/8	22	115 00	
8	25 x 21	4 1/4	25	155 00	

Single Combination and Stereoscopic Lenses.

Darlot View Lenses.

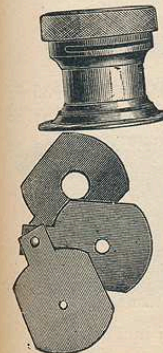


These are Single Combination Lenses, good for landscape work only. With rack and pinion movement

	BACK FOCUS.	SIZE VIEW.	
I-9 size,	5 inch,	for stereo work,	per pair \$ 9 00
I-6 "	5 1/2 "	" " " "	..... 10 00
I-4 "	7 "	5 x 8, each	..... 6 00
I-3 "	9 1/2 "	7 x 9, "	..... 7 25
I-2 "	12 1/2 "	10 x 12, "	..... 9 00
2-3 "	16 "	11 x 14, "	..... 13 00
4-4 "	20 "	14 x 18, "	..... 18 00

R. O. Co.'s Single View Lens.

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

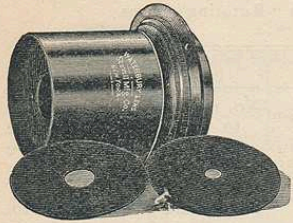


No.	Length Focus.	Size.	Price.
0	5 inch.	3 1/4 x 4 1/4	\$3 50
1	6 "	4 x 5	3 50
1 1/2	8 "	4 1/4 x 6 1/2	4 00
2	10 "	5 x 8	4 50
3	11 "	6 1/2 x 8	5 50
4	13 "	8 x 10	7 00

No. 1 furnished in matched pairs for stereoscopic work, at \$7 00

Waterbury Lenses.

Provided with a Set of Stops.



The Waterbury Lens is mounted in a nickel-plated tube with a single aperture, which gives the full power of the Lens.

No. 1.	Single, for 4 x 5	.....	\$3 50
No. 1.	Matched pair	.....	7 00
No. 2.	Single, for 5 x 8	.....	4 50
No. 3.	“ “ 8 x 10	.....	8 00

Stereoscopic Lenses.

Imitation Dallmeyer Stereoscopic Lenses.



These are the favorite stereoscopic tubes. They work in or out doors; are quick-acting, and always give satisfaction. We import these direct, and can guarantee every pair to give satisfaction.



Price, per pair (with central stops).....\$18 00

SCOVILL'S "PEERLESS" QUICK-ACTING STEREOGRAPHIC LENSES.--For Portraits or Views.

These Lenses are especially designed for Stereoscopic Photography, and are so constructed that they will work well for interiors or exteriors.

They are particularly adapted for instantaneous work.

Diameter of Lenses, 1 1/2 inch; focal length, 3 1/2 inches.

By removing the back lens and substituting the front combination, a focal length of 5 1/2 inches is obtained.

They are supplied with six Waterhouse diaphragms in morocco case, Price, per Pair, \$25 00

Dallmeyer's Quick-Acting Stereographic Landscape Lenses.

No. 1.—1 1/4 inches diameter, 4 1/2 inches back focus, in rigid mount, with rotating stops, pair... \$33 00

No. 2.—1 1/2 inches diameter, 4 1/2 inches back focus, in rigid mount, with rotating stops, pair... 37 00

A single combination Stereoscopic View Lens, of 1 in. diameter, and 4 1/2 in. focus, pair..... 23 00

This Lens has been especially constructed for pure "Landscape" photography.

Dallmeyer's Rectilinear Stereo. Lenses.

Especially constructed for Architectural and Landscape Views in confined situations.

Diameter of front combination, 5/8 inch; back focus, 2 1/2 inches (equivalent focus, 3 inches) mounted in rigid setting, with rotating diaphragm plate, per pair \$ 65 50

DALLMEYER'S NEW PATENT STEREOGRAPHIC LENS.

Especially constructed for Instantaneous Views, Small Portraits, Groups, Interiors, Landscapes, etc.

This new Lens is entirely free from distortion; embraces an angle of about 60 deg.; and when used with the smallest central diaphragm, it is practically from flare or a central spot.

Diameter of front and back combinations, 1 1/2 in. and 1 1/4 in. respectively, and 3 5/8 in. focus from the back glass (equivalent focus 5 inches).

In sliding mount,.....pair, \$70 00
In sliding mount with rack and pinion movement.....pair, 78 00

When the Lenses are used in pairs, and the posterior Lens is unscrewed to obtain diffusion of focus, care should be taken that the amount of unscrewing or separation, is exactly alike in both, as is indicated by divisions and index, in order to preserve identity of focus, etc.

N. B.—The front combination can be used alone and intact (focal length, 8 inches), simply by unscrewing and dispensing with the back combination, when, with a small-sized stop it will be found to cover the 7 1/4 by 4 1/2 plate.

For very short operating-rooms this Lens can also be used for C. de V.

Condensing Lenses.

ORDINARY. LONG FOCUS.

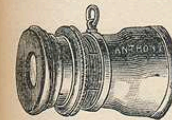
10 inch diameter, 25 inch focus.....	\$15 00
12 " " 32 " "	22 00
14 " " 44 " "	50 00

EXTRA QUALITY. SHORT FOCUS.

These are made of the best quality of Crown glass.

10 inch diameter, 14 inch focus.....	\$26 00	16 " " 21 " "	\$ 75 00
12 " " 16 " "	40 00	18 " " 25 " "	115 00
14 " " 18 " "	55 00	20 " " 35 " "	160 00
15 " " 20 " "	65 00		

THE E. A. COMPOUND FOCUSING GLASS.



For fine work the E. A. compound focussing glass is the best. It has a double compound lens. The price is \$2.50

Darlot Focussing Glass.

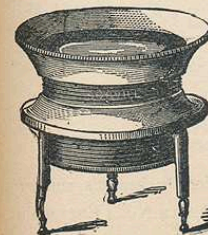


Nicely Mounted in Brass Tube.

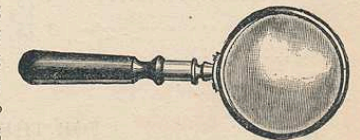
Price, - - - \$2.50

RETOUCHING GLASSES.

Made of pure white glass, German silver mounting and ebony handle. Indispensable in fine retouching and a great saving to eyesight.

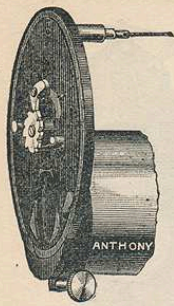


2 inch diameter.....	\$0 85
2 1/2 " "	1 25
3 " "	1 75
3 1/2 " "	2 25
4 " "	2 50
4 1/2 " "	3 25



THE THREE LEGGED FOCUS GLASS.
PRICE, EACH, 75c.

THE GRUNOW SHUTTER WITH PNEUMATIC RELEASE.



Consists of a circular plate with a rim around its border, the object of which is to exclude all light from entering between it and the revolving disk, which can be set or adjusted at will to revolve at any required velocity by means of a strong watch-spring wound about a ratchet-wheel, which is mounted on a pivot and held at any tension by means of a pawl.

The disk may also be set or held to give a clear opening to enable the operator to focus while the shutter is attached to lens.

The shutter may also be turned and set to any position to give more or less ground or sky exposure.

On the back surface of all shutters is attached a binding collar with clamping-screw, to hold it firmly to lens mounting without injuring it.

When ordering, please state the aperture of lens and the exact diameter and length of rim over which the collar is to fit.

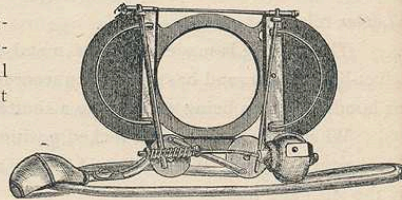
Size.	Apert. of Shutter.	Price.	Size.	Apert. of Shutter.	Price.
No. 1.	1 inch	\$4 50	No. 3.	1 1/2 inch	\$5 50
No. 2.	1 1/4 "	4 50	No. 4.	1 3/4 "	5 50

These Shutters are furnished with Collars to fit all Standard Lenses.

GARLAND'S NEW SKELETON SHUTTER FOR PORTRAIT CAMERAS EXCLUSIVELY.

The numerous defects in devices of this nature heretofore offered have been entirely overcome in the construction of this Shutter, and we are confident that it will merit the approval of every operator giving it a trial. It is made in the following three sizes:—

- 3 and 4 inch opening..... each, \$4 00
- 4 1/2 inch opening..... " 4 50



THE PACKARD SHUTTER.

PATENTED APRIL 28, 1885.

This is a popular Shutter, and captivates all who have examined it, as it operates with such perfect freedom and ease, and with absolute certainty. In construction it is simplicity itself. We guarantee every one to work perfectly and satisfactory. They come round and square outside, as follows:

SQUARE OUTSIDE.

- 3 1/4 inch opening, outside measure 7 3/4 inch.
- 3 3/4 inch opening, outside measure 8 3/4 inch.

ROUND PATTERNS.

This shape can be used on Hood of Lens, on back of Front board or inside the Box—just as you wish.

- 1 1/2 inch opening, outside measure 3 1/2 inch.
- 2 1/4 inch opening, outside measure, 5 1/4 inch.
- 2 inch opening, outside measure 4 3/8 inch.
- 2 3/4 inch opening, outside measure, 6 1/2 inch.

Larger sizes to order; a 5 in. opening must necessarily measure 11 inch outside. The Bulbs are now arranged with a Peg, which is removed when focusing; all our city patrons use the forefinger instead of the Peg.

PRICE, each\$ 4 00

BENSTER'S PATENT DIAPHRAGM SHUTTER.

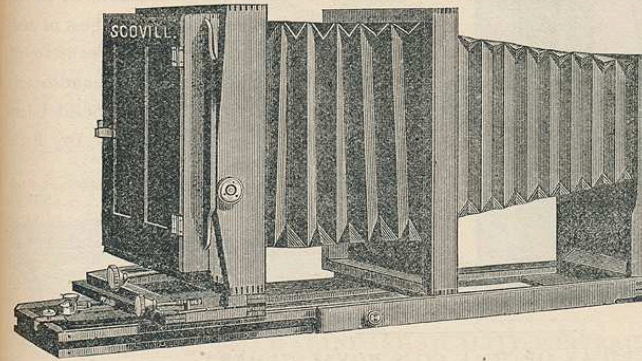
It is unquestionably the finest Shutter on the market. It dispenses with the use of stops, as the opening can be quickly changed to any size desired. It works quick or slow as required, and always sure.

PRICE, 4 1/2 inch Outside, and smaller, (each Shutter guaranteed),.....\$15 00

In ordering, state exact Lens in use, giving size, &c. In some cases it will be necessary to send us your Lens.

PORTRAIT CAMERA BOXES.

American Optical Co.'s Extra Quality Portrait Cameras with Reversible Shields.



These Boxes will be supplied with the new Waterbury or a Bonanza Holder, with or without Curtain Slide, as desired, when so specified in the order.

These Cameras are manufactured from the best mahogany, French polished, with India-rubber bellows, the A shaped wooden guide, and, in sizes up to 8x10, with a patent focusing cam. Larger sizes, 8x10 and upwards, are furnished

with the Lever Focusing Attachment, by which the most delicate focus can be adjusted with the utmost facility and ease. No change in prices since October, 1882.

SIZES AND PRICES OF PORTRAIT CAMERAS.

No.	Size.	To cover plates.	Length of Platform.	When fully extended.	Double Swing.	No.	Size.	To cover plates.	Length of Platform.	When fully extended.	Double Swing.
1.	1-1.	3 1/2 x 4 1/2	inch	.....	\$ 18 00	6.	Mammoth 14x17	inch	33	60	79 00
2.	1-2.	4 1/2 x 5 1/2	"	.....	25 00	7.	"	17x20	36	66	94 50
3.	4-4.	6 1/2 x 8 1/2	"	.....	39 70	7 1/2.	"	18x22	38	70	100 00
4.	Extra 4-4	8x10	"	.....	42 75	7a.	"	20x24	40	74	103 50
4 1/2.	.....	10x12	"	.....	54 00	7b.	"	25x30	40	74	137 00
5.	.....	11x14	"	26 inch	46 inch	.....	.....	.....	.....	.....	63 90

NOTE.—The 11x14 and larger sizes are supplied with the extension platform and center support for bellows, and with the Bonanza Holder only. If glass-corner holders are wanted, we can furnish to order. We usually keep the Nos. 5 and 6 in stock; the smaller sizes we can only furnish to order, and to those desiring small size recommend the sliding holder boxes, such as the Imperial, Royal, &c., that make two exposures on one plate at the same sitting—which is an important feature in card, cabinet and panel work, as the best of the two can be selected, and often the sitters will double their order on seeing proofs.

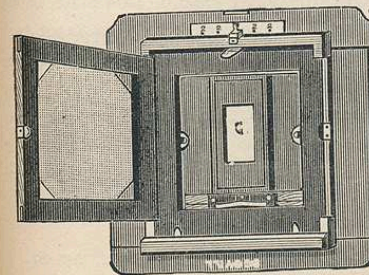
Attachments for Portrait Cameras.

(American Optical Co.'s make, Nos. 5 to 7a inclusive.)

Consisting of a Carriage and Bonanza Holder, these attachments can, without bother, be laid aside when large-sized pictures are to be taken, and be replaced when Imperial work is to be executed, for which service they are available, from the size specified down to the smallest work.

In ordering these, it will be necessary to specify camera in use, and the outside size at the back, to guard against possibility of error.

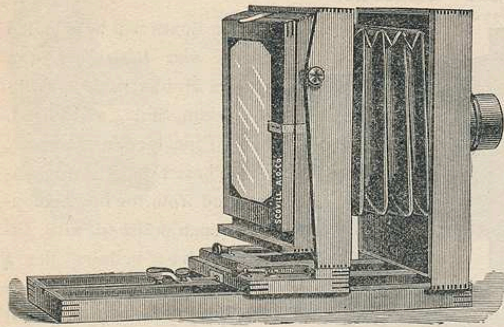
Attachment	Camera.	Price.	Attachment.	Camera.	Price.		
8x10 for No. 5.	11x14.	\$23 00	10x12 for No. 7.	17x20.	\$34 00		
8x10 "	No. 6.	14x17.	25 50	8x10 "	No. 7a.	20x24.	34 50
10x12 "	No. 6.	14x17.	30 50	10x12 "	No. 7a.	20x24.	40 00
8x10 "	No. 7.	17x20.	29 50	11x14 "	No. 7a.	20x24.	45 00



NOTE.—In most instances this attachment on the largest size box in use, will do work required about a Gallery. There is an inset front supplied to use with small Lens or one of short focus, when a box and attachment are sold together. We keep Box No. 5 in stock with 8x10 Attachment complete. Price, \$86.00.

The Peerless Camera Boxes.

PEERLESS PORTRAIT CAMERAS.

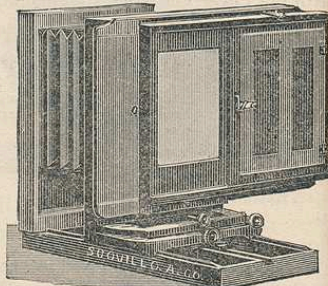


These Cameras are manufactured in the most substantial manner from the best of mahogany, with telescopic bed, lever focusing attachment, cone bellows, and are handsomely finished. They are supplied with Solid Glass Corner or other styles of Wet and Dry Plate Holders.

	Double Swing Back.
8x10 Peerless Portrait Camera	\$33 50
10x12 " " "	40 50
11x14 " " "	with extension bed 54 00
14x17 " " "	63 00
17x20 " " "	75 50
18x22 " " "	81 00

THE AMERICAN OPTICAL CO.'S ROYAL CAMERA.

This Camera does precisely the same work as an imported Camera, and has all of the latest improvements. It has a carriage for the plate-holder, and the ground glass is where it is always ready to be brought into use. When the operator brings the plate-holder from the dark room, he slides it into the carriage instead of placing it on the floor or some other inconvenient place while he obtains the focus. After securing the desired focus, he merely slides the ground glass to one side, in place of removing it, and simultaneously brings the plate-holder into place.

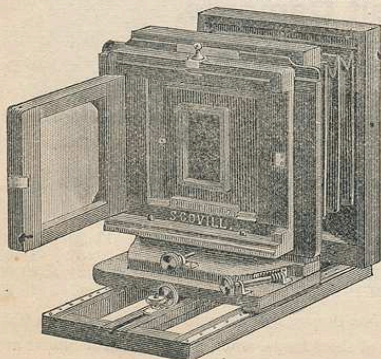


8 x 10 Royal Camera, Double Swing-Back,	\$50 00	11 x 14 Royal Camera, Double Swing-Back,	\$77 00
10 x 12 " " " "	60 00	14 x 17 " " " "	90 00

Above the 8x10 size, an extra ground glass is supplied for use in focusing when pictures of groups are being taken.

IMPERIAL CARD OR CABINET BOX.

WITH SLIDING HOLDER.—AMERICAN OPTICAL CO.'S.



The Most Popular Box in Use To-Day.

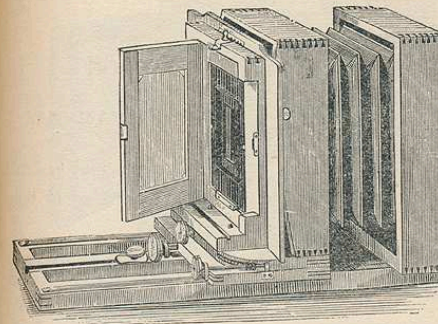
Two Imperial cards on an 8x10 or 4x4 plate, using one 4-4 tube, any size single pictures from 1/8 to 8x10; two cards on a 4x4 or 5x7 plate, using a 1/2 size lens; four cards on 4x4 or 5x7 plate, using two 1/2 size lenses.

It will be observed, then, that this Box may be used for all single portraits up to 8x10 size, and for two Imperials on an 8x10 plate. A small diaphragm enables you to make two cards on a 5x8 plate. Photographs or Ferrotypes made with equal ease.

No. 22, 6 1/2 x 8 1/2 Camera, Double Swing-Back,	\$45 00
No. 23, 8 x 10 " " " "	50 00
No. 24, 10 x 12 " " " "	60 00
No. 24A, 11 x 14 " " " "	72 00
No. 24B, 14 x 17 " " " "	90 00

PEERLESS IMPERIAL CAMERAS.

	Double Swing-Back.		Double Swing Back.
8 x 10.....	\$31 50	14 x 17, with 8 x 10 Holder and Attachment,	\$ 85 50
11 x 14, with 8 x 10 Holder and Attachment.....	72 00	17 x 20, " " " "	103 50



ACME IMPERIAL BOXES.

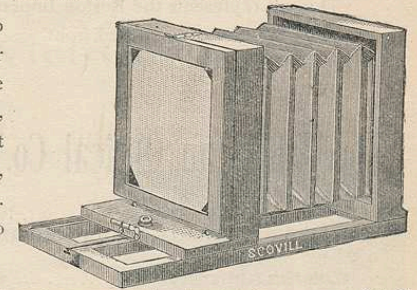
Manufactured under the management of the Scovill Manufacturing Co.

It performs all the work as described for the Imperial Box quoted above.

6 1/2 x 8 1/2, Double Swing	\$36 00
8 x 10, " " "	40 00
10 x 12, " " "	50 00

A. O. CO.'S STANDARD QUALITY PORTRAIT CAMERAS.

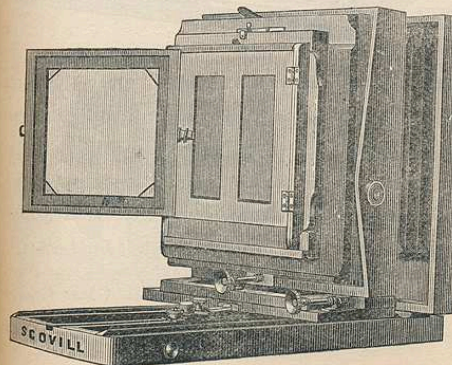
To meet the wants of a large class of customers who give preference to the Cameras of our manufacture over those of all others, we have been induced to put into the market a cheaper class of Cameras, not so highly finished, as our extra quality goods, and without swing-back, but, at the same time, *good, well-made, true and reliable* Cameras, and, without question, the best of their class in the market. We can recommend them as being of superior workmanship when compared with others of the same price.



1-4 size, reversible, for plate 3 1/4 x 4 1/4 in.....	\$ 7 25	4 1/2 x 6 1/2 for two cards, using two tubes.....	\$ 9 50
1-2 " " " " 4 1/4 x 5 1/4 "	8 00	4-4 Reversible, with attachment for two cards on	
4-4 " " " " 6 1/4 x 8 1/4 "	11 00	4 1/2 x 5 1/2 plates, using two tubes.....	24 00
Ex. 4-4 size " " " " 8 x 10 "	16 50	4 x 7, 4 x 8 or 5 x 8 Stereo. Camera.....	19 00

Boston Imperial Camera.

A NEW CAMERA NEVER BEFORE LISTED.—EXTRA QUALITY.

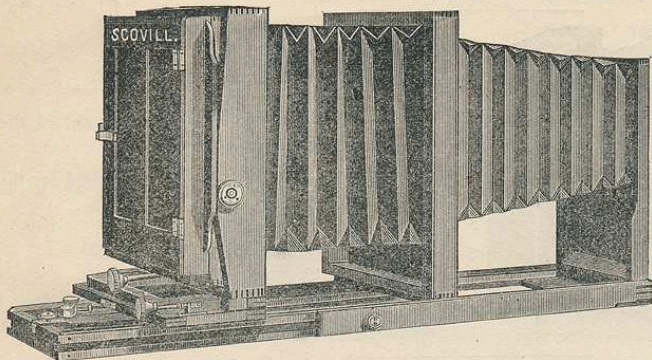


The 11 x 14 Boston Imperial Camera is the same as an 11 x 14 Portrait Camera, with the addition of an 8 x 10 carriage, and an 8x10 Bonanza Holder, and is used to make two imperials on an 8 x 10 or 4-4 plate, using one 4-4 lens; two cards on a 5 x 8 plate, using one 1/2 size lens; two large panel pictures, 6 x 10 inches in size, can also be made, and regular work from 11x14 to 1-4 inclusive.

	Double Swing Back.
No. 24c.—11x14 Boston Imperial Camera.....	\$ 85 00
No. 24b.—14x17 " " " "	103 00
No. 24c.—18x22 " " " "	130 00

These Cameras may be fitted either with Waterbury or Bonanza Holder.

BOSTON IMPERIAL CAMERAS--Continued.



BOSTON
IMPERIAL CAMERAS.

These Cameras may be fitted either with Waterbury or Bonanza Holder.

This cut represents the Boston Imperial Cameras with bed and bellows extended, showing Center bellows support, and cone shaped front.

The American Optical Co.'s Cincinnati Gem or Lakeside Box.

WITH CARRIAGE SLIDING HOLDER.

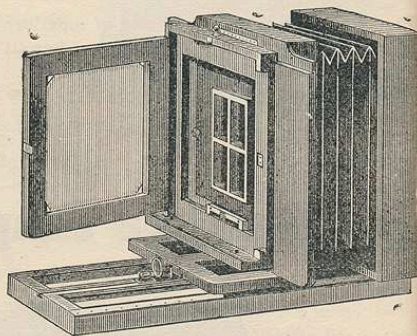
With four 1-4 Darlot Lenses.....\$ 37 50
Without the " " 22 50

DOUBLE SWING BACK.

WITH CARRIAGE SLIDING HOLDER.

With four 1-4 Darlot Lenses.....\$ 45 00
Without the " " 30 00

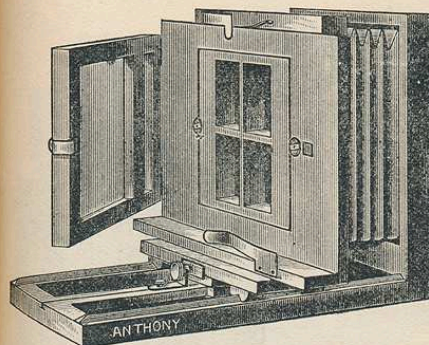
No extra charge for Bonanza Holder if desired.



One manufacturer calls it the "Camera for the million," and without doubt, it meets the wants of a larger number of galleries than any in the country. It will make negatives or ferrotypes with equal facility and without any cumbrous changes. With 4 1/4 Lenses it makes 4 or 8 pictures on 8x10, or 7x10, 6 1/2 x 8 1/2 or 5x7 plate—a feat which be accomplished by no other box. With one Lens it makes two pictures on 8x10, 7x10, 6 1/2 x 8 1/2, 5x7 or 1/2 plate, and also regular work from 1/4 to 8x10. It is readily seen that it bears the palm for variety of useful every-day work. Brass plate goes with it for Lenses.

The Gauged Box is only furnished with the Reversible Glass Corner Holder with Glass Corner Kits and the regular 5 x 7 and 7 x 10 Rabbeted Kits for ferro work. SEE CUT AND PRICES ON NEXT PAGE.

The American Optical Co.'s Cincinnati Gem or Lakeside Box.--Continued.



THE AM. OPTICAL CO.'S CINCINNATI GEM OR LAKESIDE BOX.

WITH GAUGED SLIDING HOLDER AND SPRING CATCH.

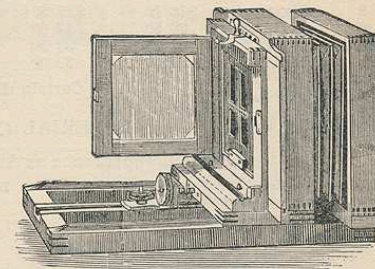
With four 1-4 Darlot Lenses, \$32 00
Without the " " 20 00

The Am. Optical Co.'s Victoria Camera.

EXTRA QUALITY.

Works a 5x7 plate, and may be used to work two Victoria cards, using one tube, on a 5 x 7 plate; four cartes de visite; using four 1/4 tubes, on a 5x7 plate; and by reversing the four lenses it will make eight "bon-tons," on a 5x7 plate. It will make all regular sizes, from 1/8 to 5x7, using one tube. Four 1/4 lenses only accompany the Camera when it is ordered fitted.

Victoria Card Camera, with four 1-4 tubes \$30 00
" " " without tubes, 15 00

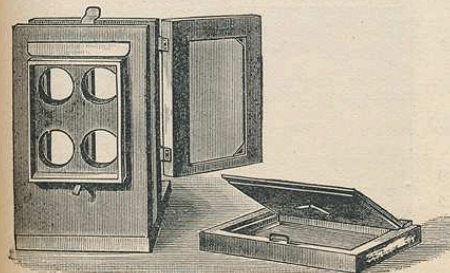


Scovill's Bon-Ton Box.

No. 155a.

Makes with one tube single work from 1-9 to 5 x 7, not reversible, or with 4 tubes it makes four Bon-Tons on 5 x 7 plate. For those who do not care to make smaller work than Bon-Tons, this is the box.

With four 1-4 Lenses on brass plate, Price \$24 50
Without Lenses..... " 9 50



62.00
30.00
92.00

Anderson Cameras.

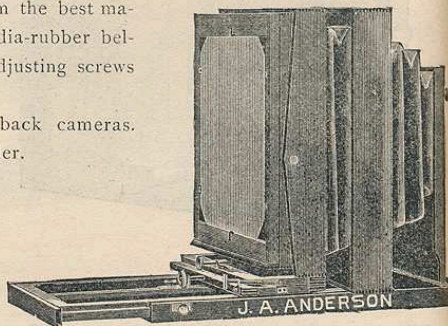
These are Good Goods.

WE GUARANTEE EVERY CAMERA.

The following cameras are manufactured from the best mahogany, thoroughly seasoned, French polished India-rubber bellows, improved guides, focus screw or lever, and adjusting screws for adjusting the swing back. Reversible holder.

Telescopic bed, raising front, double swing back cameras. Fitted with the improved curtain slide bonanza holder.

No.	Size of Plate.	Price.
1	11x14	\$ 51 00
2	14x17	62 00
3	17x20	72 00
4	18x22	78 00
5	20x24	82 00
6	22x27	90 00
7	25x30	100 00



EXTRA QUALITY PORTRAIT CAMERAS.

PLAIN BED.

No.	Size of Plate.	Without Swing.	Single Swing.	Double Swing.	No.	Size of Plate.	Without Swing.	Single Swing.	Double Swing.
8	6½ x 8½	\$18 50	\$22 50	\$26 00	12	14x17	\$41 50	\$48 00	\$54 00
9	8 x10	22 50	27 00	31 00	13	17x20	50 00	56 50	62 50
10	10 x12	27 00	32 50	37 50	14	18x22	60 00	67 00	72 50
11	11 x14	33 50	39 00	44 00	15	20x24	70 00	76 50	80 00

Curtain slide holder 10 per cent. additional.

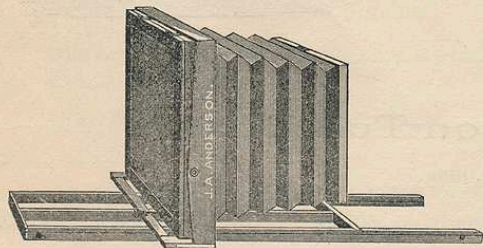
IMPERIAL CARD OR CABINET CAMERAS.

Same in appearance as American Optical Company's Imperial Cameras.

No.	Size of Plate.	Single Swing.	Double Swing.	No.	Size of Plate.	Single Swing.	Double Swing.
16	6½ x 8½	\$29 00	\$33 00	18	10x12	\$41 75	\$46 00
17	8 x10	33 75	37 50	19	11x14	50 00	55 00

IMPERIAL ATTACHMENT FOR PORTRAIT CAMERAS WITH CURTAIN SLIDE HOLDER.

No. 39—8x10 for 11x14 camera.....	\$22 00
8x10 " 14x17 "	25 00
8x10 " 18x22 "	30 00

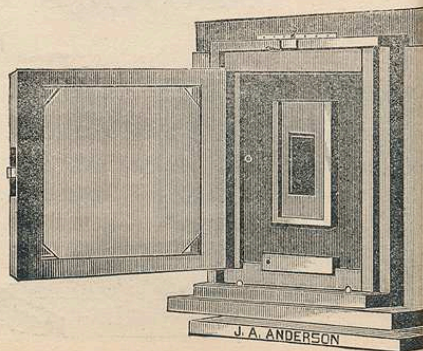


ENLARGING ATTACHMENT FOR TELESCOPIC BED CAMERAS.

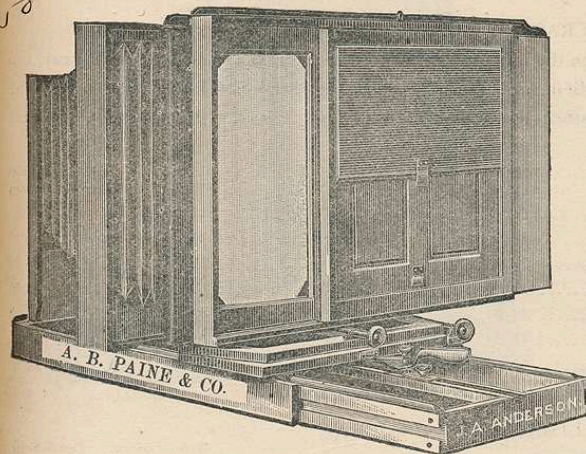
No. 40—

11x14 attachment for 8x10 or larger cameras.....	\$28 00
14x17 " " 8x10 " "	30 00
18x22 " " 11x14 " "	32 50
20x24 " " 14x17 " "	40 00

These attachments are made single swing.



Royal Camera.



This camera is the cheapest and best Royal Camera made. We take pleasure in recommending it to our customers. It has a carriage for the plate-holder, and the ground glass is where it is always ready to be brought into use. When the operator brings the plate-holder from the dark room, he slides it into the carriage. After securing the focus, he merely slides the ground glass to one side, and simultaneously brings the plate-holder into place.

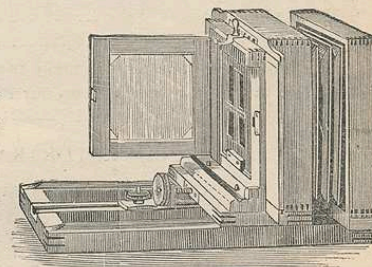
DOUBLE SWING BACK.

No.	Size of Plate.	Price.
20	8x10	\$42 75
21	10x12	50 00
22	11x14 Telescopic bed	60 00
23	14x17 " "	70 00

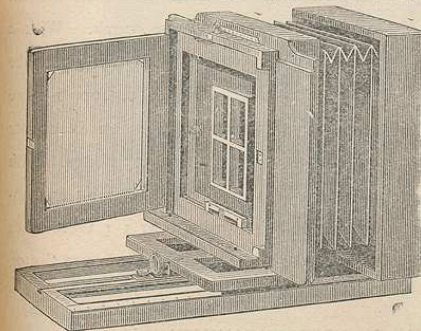
Victoria Camera.

For 5x7 plate, making two Victoria cards on a 5x7 plate, using one tube, four and eight on 5x7 plate, using two or four tubes.

No. 24. French polished, no tubes.....	\$18 00
" 25. plain finish, no tubes.....	12 50



THE LAKESIDE CAMERA.



For variety of work it has no equal. It is made of mahogany, finely polished, India-rubber bellows, fine focus screw and plate-holder, moves upon friction rollers, fitted with Bonanza Holder, with 5x7 and 7x10 rabbeted kits for ferrotypes. With one tube it will make one or two on plates from ¼ to 8x10, and with four ¼ gem tubes will make four or eight on 5x7 plate, and eight on a 7x10 plate.

No.	Without Swing.	Single Swing.	Double Swing.
26	\$21 25	\$25 00	\$27 80

Fitted with four ¼ gem tubes \$15.00 additional.

ANTHONY PORTRAIT CAMERAS.

CLIMAX CAMERAS—CLIMAX PORTRAIT CAMERA.

These cameras are manufactured in the most substantial manner, from the best of mahogany, and handsomely finished. They are supplied with Lewis' Patent Universal Solid Glass Corners. The Single Swing Cameras are not kept in stock, but made to order only. Prices, with the Patent "Benster" Plate-holders are also given below.

	For Reversible Plate.	Without Swing.	Single Swing.	Double Swing.	Double Swing, with Benster Plate Holder.
No. 9	4½ x 5½	\$10 00	\$12 50	\$15 00	
" 10	6½ x 8½	18 50	22 50	26 00	
" 11	8 x 10	22 50	27 00	31 00	\$36 00
" 12	10 x 12	27 00	32 50	37 50	42 50
" 13	11 x 14	33 50	39 00	44 00	50 00
" 14	14 x 17	41 50	48 00	54 00	62 50
" 15	17 x 20	50 00	56 50	62 50	72 00

CLIMAX CARD CAMERA.

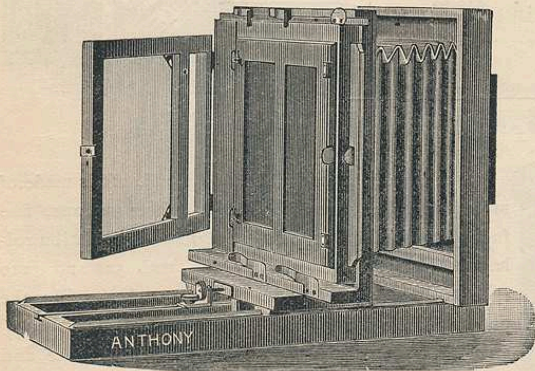
No. 16.	For two Cards on 4½x6½ plate and extra shield for 1-9 to 1-2 pictures, reversible...	Without Swing. \$15 00	Double Swing. \$21 00
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CLIMAX IMPERIAL CAMERAS.

No. 18.	6½ x 8½ Imperial Camera	Without Swing. \$25 00	Double Swing. \$33 00
" 19.	8 x 10 " " "	30 00	37 50
" 20.	10 x 12 " " "	37 50	46 00

Each of these cameras will make two pictures with one lens on the largest plate the shield admits. The shield moves in a carriage, on our Patent Rollers.

CLIMAX PORTRAIT AND GEM CAMERA. (No. 43 C.)



The best every-day camera in the market. With sliding holder and swinging ground glass; improved focus screw; extension bellows. With rabbeted kits for dry-plate and ferrotype work. With a single 4-4 or extra 4-4 tube, it will make all regular work, reversible, from 1-4 size to 8x10; also two cabinets on 8x10 plate or two 5x7 size on two 5x7 plates. With a 1-4 or 1-2 size tube, copying and enlarging to 8x10; with four 1-4 Gem tubes set in brass plate, it makes eight large bon-tons or card size on 7x10; also four of the same size on 5x7, and eight small bon-tons on 5x7. Prices:

No. 43 C.	All complete except tubes	\$20 00
" 43 C.	As above, fitted with four 1-4 Gem tubes	35 00

CLIMAX CAMERAS.

FITTED WITH THE

"BENSTER" PLATE HOLDERS.

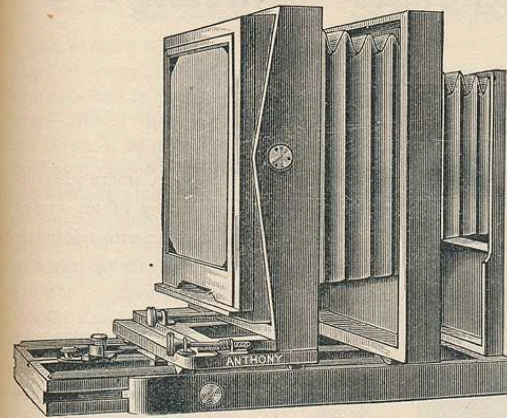
These Cameras are manufactured in the most substantial manner from the best of mahogany, and handsomely finished with all the late improvements.

CLIMAX PORTRAIT CAMERAS.

Double Swing Back, Tangent Screw Motion and Telescopic Bed.

No. 13-b.	—11 x 14 and under	\$59 00
No. 14-b.	—17 x 17	70 00
No. 15-b.	—17 x 20	83 00
No. 16-b.	—18 x 22	90 00
No. 17-b.	—20 x 24	97 00
No. 18-b.	—22 x 27	118 00
No. 20-b.	—25 x 30	150 00

All the above are supplied with a lever attachment, by which the most minute adjustment of the focus may be instantly obtained.



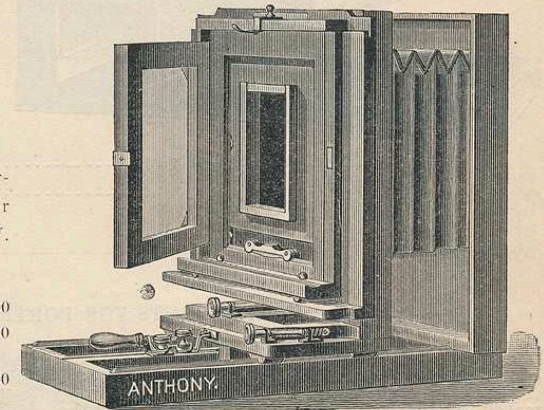
No. 14b, Climax Camera, with Telescopic Bed and Benster Holder.

CLIMAX IMPERIAL CAMERA.

WITH BENSTER HOLDER.

No. 19-B. For 8 x 10 and under, and carriage movement on our Patent Rollers, for two cabinets on 8 x 10 plate, or two C. de V. on smaller plate, with "Benster" Holder.

Without Swing	\$ 29 00
Double Swing-Back	39 00
The same for 10 x 12 and under, Double Swing-Back	55 00



CLIMAX CINCINNATI GEM CAMERA.

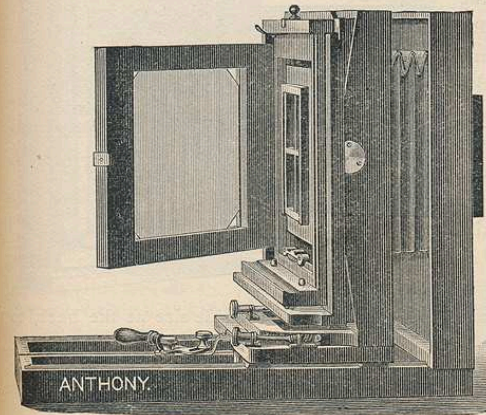
FITTED WITH THE "BENSTER" PLATE HOLDER.

For negatives or ferrotypes (admitting of picture 8x10 and under, two on 8x10, 7x10 or 5x7 with one lens) with carriage movement on our Patent Rollers, and fitted with the "Benster" Holder.

No. 43-b.	—Without Swing	Price, \$27 00
No. 43-b.	—Single Swing	" 30 00
No. 43-b.	—Double Swing	" 34 50

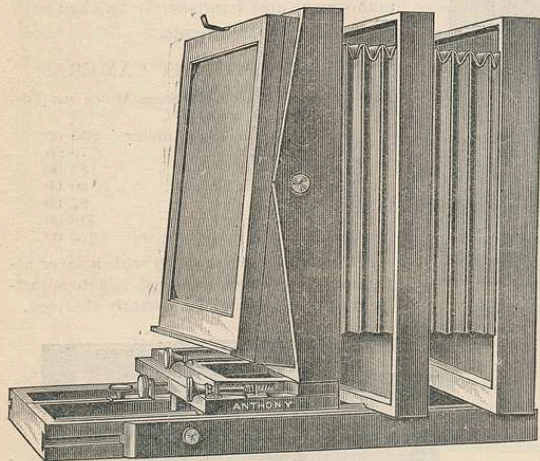
When fitted with four ¼ Gem Tubes on plate, it will admit of eight on 7x10, and four on 5x7.

Without Swing, fitted with four tubes on plate	\$42 00
Single " " " "	45 00
Double " " " "	49 50



New York Imperial Camera.

WITH BENSTER HOLDER.



A New Combination Camera with carriage movement, consisting of an 11 x 14 double swing back Camera with telescopic bed, for portraiture from 11 x 14 to 8 x 10 and reversible.

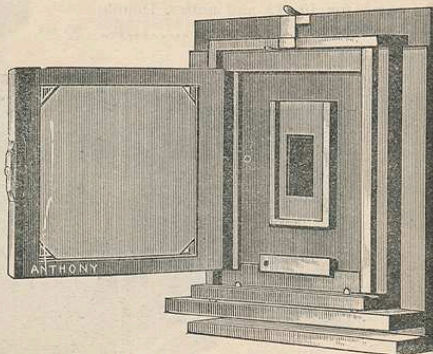
Also with an 8x10 Attachment for 8x10 to 1/4 reversible as follows: Making two cabinets on an 8x10, using one tube and two cartes de visite on 4 1/4 x 6 1/2.

This will fill all the requirements of any studio working 11 x 14 plates and smaller.

Price complete, 11 x 14.....\$ 80 00
 " " 14 x 17..... 95 00

ATTACHMENTS FOR PORTRAIT CAMERAS.

Consisting of a carriage and plate holder to be attached to larger portrait Cameras, by occupying the place of the ground glass or shield of the same for producing smaller pictures, without using the large shield belonging to the Camera. Two cartes de visite or cabinet portraits can be made with one lens. These attachments can be laid aside when large-sized pictures are to be taken, and replaced when imperial work is to be done, for which they are available, from the largest size specified down to the smallest imperial work.



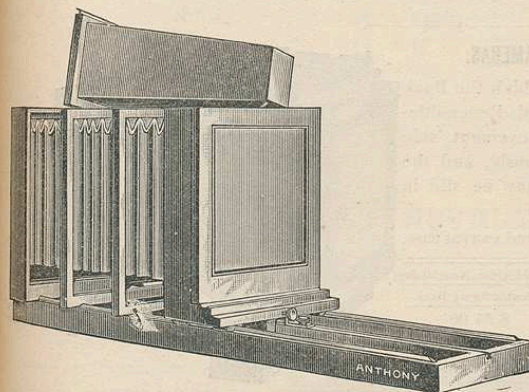
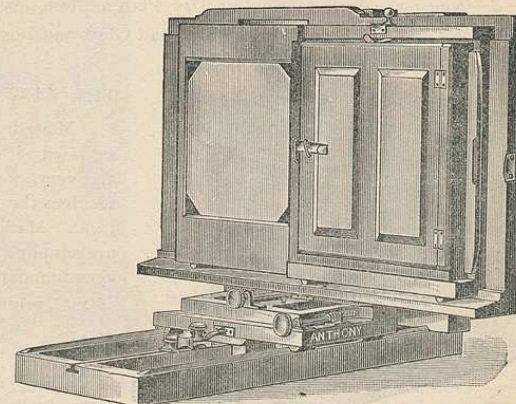
In ordering please state what kind of Camera is in use, and give the outside size at the back, to guard against error.

8 x 10 and Cabinet and C. de V. attachment for 11 x 14.....\$ 22 00
 8 x 10 " " " " 14 x 17..... 25 00
 8 x 10 " " " " 17 x 20..... 32 50

CLIMAX ROYAL CAMERA.

This camera has the sliding back or carriage for plate holder, and has a ground glass attached in place, where it is always at hand. When the operator has the plate holder ready, he places it in the carriage, instead of laying it on the floor or some other inconvenient place, while he gets his focus; this done, he merely slides the holder, ground glass and all, together. It is made in the best manner, of fine mahogany, and is fitted with the celebrated Benster plate holder, working 8x10 plates, and smaller; two 5x8 negatives on an 8x10 plate; two 4 1/4 x 6 1/2 negatives on a 6 1/2 x 8 1/2 plate; two 4x5 negatives on a 5x8 plate. Prices:

8x10 size, complete.....\$42 75
 11x14 " " 70 00
 14x17 " " 85 00



O I C COPYING CAMERAS.

No. 28. With 3/4 foot bed, for 8x10 to 1-4 \$28 75
 No. 29. " 4 " " 10x12 to 1-2 36 50
 No. 30. " 4 1/2 " " 11x14 to 1-2 43 00
 No. 31. " 5 " " 14x17 to 4-4 55 50
 No. 32. " 6 " " 17x20 to 8x10 61 50

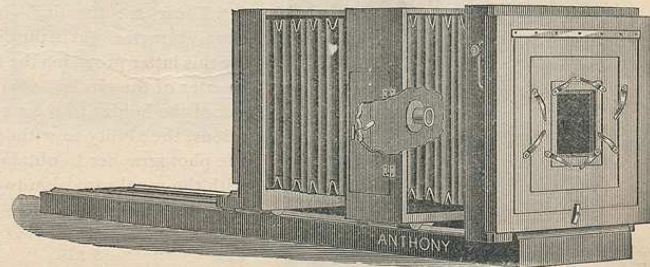
Walnut, extra long rubber bellows, cone, improved wooden guide, focus screw, sliding front and reversible S. G. corner shield.

CLIMAX ENLARGING, REDUCING AND COPYING CAMERAS.

When ordering, please specify number and sizes of kits wanted.

Size, 6 1/2 x 8 1/2, Price, \$27 00
 " 8 x 10 " " 30 00
 " 10 x 12 " " 45 00
 " 11 x 14 " " 55 00

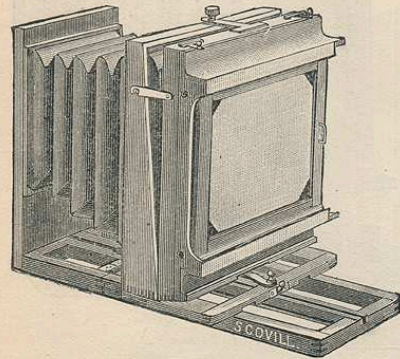
The form of construction of this new camera is made apparent by the illustration here shown. The experienced copyist will not need any such simple directions for use as we append.



An important feature in this Camera, that is found in no other, is, the center-board with lens can be used in the end of the Camera, converting it at once into an extra long Copying Camera. This will be found very advantageous in enlarging small pictures by one operation.

Scovill View Boxes.

Since the introduction of Dry Plates, these new style Boxes, with Double Plate Holders have taken the place of the old style, which had Glass and Bonanza Holders, and either of them can be supplied with the Eastman Roller Holder.



THE NEW REVERSIBLE BACK ACME VIEW BOX.

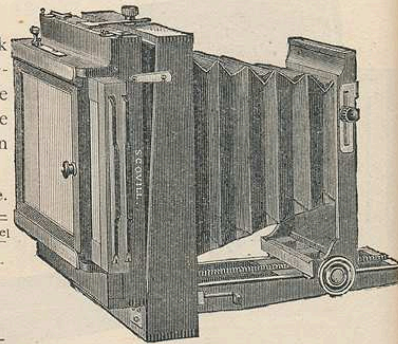
Made by Scovill Manufacturing Co. These Boxes are supplied with vertical sliding fronts and folding platforms; are very compact, light and portable. The back which receives the Holder can be set on either horizontal or upright. Made of mahogany, fine finish, cone bellows, and are supplied with the new Double Daisy Holders, which accommodate kits. (The kits come extra.)

6 1/2 x 8 1/2, reversible, Single Swing, \$26 00—Double Swing, \$29 50
8 x 10, " " " 30 50—" " 34 00
10 x 12, " " " 36 00—" " 40 50
11 x 14, " " " 45 00—" " 50 00
14 x 17, " " " 54 00—" " 58 50
8 x 10, " Venus, wide front for stereo work " 36 00
Extra, 8 x 10, Daisy Holders, each 6 00

SCOVILL'S ST. LOUIS REVERSIBLE-BACK CAMERAS.

In addition to the desirable features which the Back Focus Reversible Camera possesses, the St. Louis Reversible-Back Cameras have the rack and pinion movement, side latch for making the bed rigid instantaneously, and the ground-glass so arranged that the holder may be slid in front of it, as shown in the illustration.

Each Camera is supplied with one Daisy Holder and canvas case.

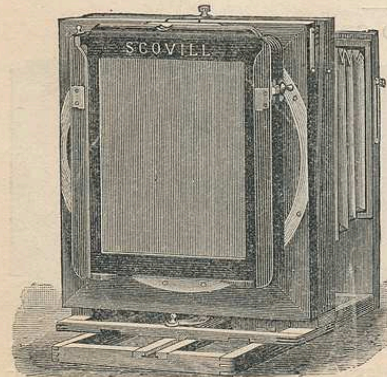


For Plate.	Single Swing-Back	Double Swing-Back.	Fitted with Eastman's Roll Holder, New Model	
			Single Swing Back.	Double Swing Back
5 x 7	\$ 32 00	\$ 35 00	\$ 52 00	\$ 55 00
6 1/2 x 8 1/2	36 00	40 00	60 00	64 00
8 x 10	40 00	44 00	70 00	74 00
11 x 14	60 00	64 00	102 00	106 00

FLAMMANG'S PATENT REVOLVING BACK CAMERAS.

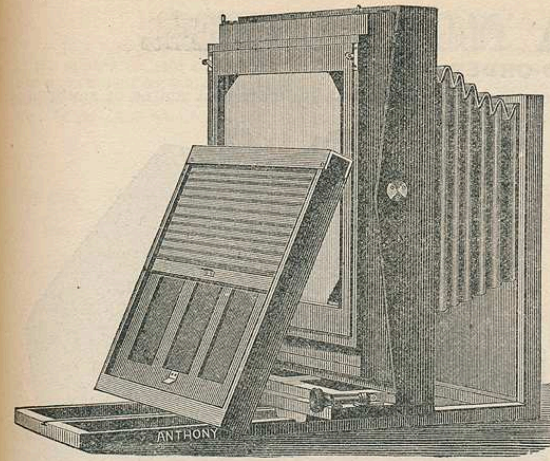
FITTED WITH DAISY HOLDER.

"These are the fine View Cameras." The carriage is simply turned about in the circle and automatically fastened. By this latter provision the carriage may be secured at either quarter of the circle. Ordinarily, the slide will be drawn out of the holder to the right; but in certain confined situations, the ability to withdraw the slide to the left enable the photographer to obtain a view which he could not get with the usual provision to a Camera.



551B, For view, 5 x 8 in. reversible, \$ 31 50	\$ 36 00
552, " 6 1/2 x 8 1/2 " " 40 50	45 00
553, " 8 x 10 " " 45 00	49 50
554, " 10 x 12 " " 58 00	63 00
555, " 11 x 14 " " 69 75	74 25
556, " 14 x 17 " " 81 00	85 50

ANTHONY'S VIEW CAMERAS---Continued.



CLIMAX REVERSIBLE BACK VIEW CAMERAS.

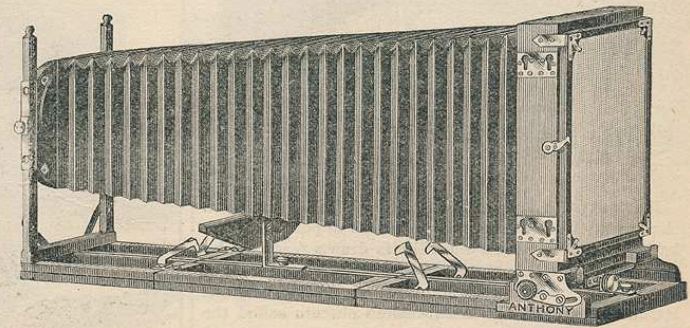
With vertical sliding front and folding bed. Reversible back for making upright or horizontal pictures. Compact, light and strong. The 6 1/2 x 8 1/2 and 8 x 10 sizes are fitted with double dry plate holder. Sizes larger with single holder, made with a new curtain slide, especially desirable in confined situations.

No. 21. For view, 6 1/2 x 8 1/2. Reversible, Double Swing, \$ 27 00
No. 22. " 8 x 10 " " " 32 00
No. 23. " 10 x 12 " " " 37 50
No. 24. " 11 x 14 " " " 46 00
No. 25. " 14 x 17 " " " 54 00
No. 26. " 17 x 20 " " " 62 50
No. 27. " 18 x 22 " " " 70 00

ANTHONY'S PATENT NOVELETTE COPYING CAMERA.

8 x 10 Novelette Camera, with single swing, extra length, for copying, enlarging, etc.

The bed is composed of three sections. By removing the rear section a regular 8x10 Novelette Camera is obtained. The extra section is held firmly in position by two dowel pins and our patent hook clamps, and can be removed in less than three seconds. A movable support is placed under the bellows to hold it in position and prevent sagging.



All packed in an ordinary carrying case.

Length of focus 3 1/2 inches.

Total weight, 7 pounds.

Price, including one of our New Style Double Novelette Holders and Case, \$40.

CAMERA NOVELTIES.

TO ORDER ONLY.

These goods are not intended for practical every day work, but more as a source of amusement and recreation.

Anthony's Satchel Detective Camera.

In outward appearance, and to the ordinary observer, this latest modification of the Detective Camera looks exactly like an alligator hand-satchel that is carried by a shoulder-strap at the side of the pedestrian. (See Fig. 1.)



Fig. 1. Camera ready for Traveling.

Upon closer observation one sees that it consists of an artfully concealed Detective Camera, in which all the various movements to secure a picture are situated upon the side. (See Fig. 2.) For use, the Camera is held so that the base of the satchel rests against the body of the operator.

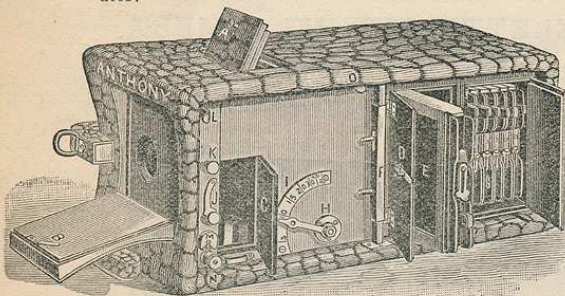
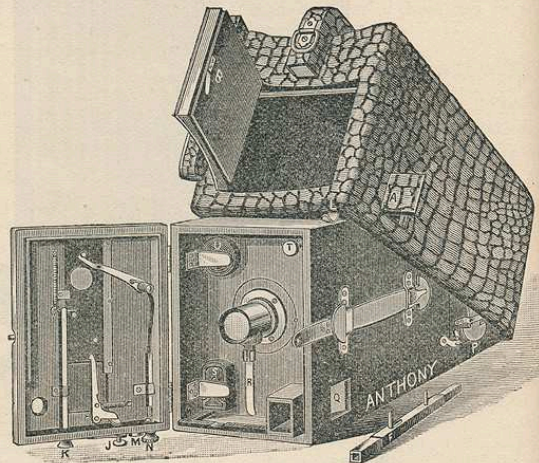


Fig. 2. Camera as seen from Under Side.

By means of a brass pull at the side, the shutter is set. A plate in the regular holder is placed in position at the back of the Camera and the slide is drawn ready for exposure. The release of a short catch exposes the front of the shutter ready for action, and by raising a small leather-covered lid the little camera obscura called the Finder, on the (now) upper side of the Camera, shows the position that the object will occupy on the plate. (See Fig. 2.) The slightest touch upon a small brass button releases the shutter, and the exposure is made.

By removing a screw, that takes the place of the spring lock of an ordinary satchel, the Camera proper can be removed from its cover, and the screw removed serves to attach the Camera to a tripod for ordinary use. (See Fig. 3.)



Fig. 4. Camera while Exposing.

CAMERA NOVELTIES---Continued.

This last form of the Detective Camera allows the operator to carry with him twelve plates in the interior of the apparatus, and so carefully packed away that no light can strike them. It is also furnished with an ingenious attachment by which the speed of the shutter can be regulated to suit the speed of the objects moving with greater or less velocity; while, by simply releasing the catch, time exposures can be made at the will of the operator. In fact, the whole affair is the latest achievement in ingenious and compact light photographic apparatus.

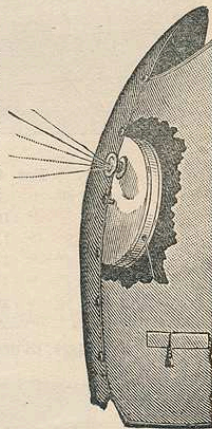
Price List of Anthony's Satchel Detective Cameras.

Size 4x5, in Imitation Alligator or Grained Leather, with one patent double dry plate holder,	\$ 80 00
" 4x5, in Genuine Alligator, with one patent double dry plate holder,	85 00
" 4x5, in Imitation Alligator or Grained Leather, with rear compartment containing six patent double dry plate holders,	95 00
" 4x5, in Genuine Alligator, with rear compartment containing six patent double dry plate holders,	100 00

THE VEST CAMERA.

This new and novel instrument was planned to make pictures of the size suitable for lantern slides. A handsome velvet-lined leather case is provided with it in which the camera is carried or used when it is not worn underneath the coat.

The CONCEALED CAMERA was designed for the use of those who wish to photograph, without attracting the attention of anyone, the interesting sights met in every day life, such as picturesque groups, quaint figures, and striking facial expression, where opportunity to sketch or to set up an ordinary camera and tripod, arrange the focus, draw slides, and such manipulations are out of the question. The beautiful results obtained with this camera, and the ease with which they are secured, make it of great value to artists and detectives.

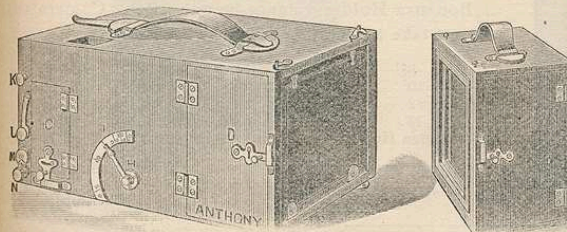


Price of Concealed Cameras.

No. 1, in Sliding Cover Box,	\$15 00
Keystone Plates,	1 20
Film Carriers,	50
American Films, in two-dozen packages,	1 75
Skins, in two-dozen packages,	38
No. 2, in Velvet-Lined Leather Case,	25 00
Keystone Plates,	1 65
Film Carriers,	75
American Films, in two-dozen packages,	2 55
Skins, in two-dozen packages,	50

Anthony's Climax Detective Camera.

Patented Nov. 11, 1884. Sept. 14, 1886. March 22, 1887. March 29, 1887.



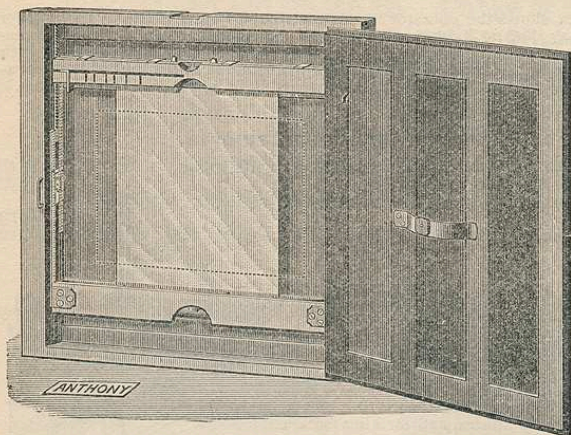
This cut shows the latest improvement in detective cameras, the result of our long experience in their manufacture, we having been the first to introduce this class of cameras. All of its working parts are on the left hand side, and the shutter may be set and released, and its speed regulated, from the outside without opening the camera, which can, if desired, be inserted in our patent satchel, thus transforming it into a satchel camera. By a convenient arrangement the door C may be opened and diaphragms changed without removing the shutter. Lenses of different

focal strength may be readily adapted (with reasonable limits) to it without altering the camera itself. A removable rear compartment containing five extra plate holders may be attached, this compartment serving also in place of a focusing cloth when the plate holders and rear partitions have been removed, an advantage not possessed by any other style of detective camera. It is made in only one size, namely 4x5.

PRICES.

	Instantaneous Landscape Lens.	R. R. Hemispherical Lens.	Dallmeyer R. R. Lens.
Climax Detective Mahogany Camera, with 4x5 Dry Plate Holder complete,	A \$25 00	B \$41 00	C \$63 00
Or, if covered with Black Grained Leather and Metal Work Oxidized Black,	D 29 00	E 45 00	F 67 00
With Removable Rear Compartment of Mahogany, containing of five extra Dry Plate Holders,	G 40 00	H 56 00	I 78 00
Or, covered with Leather as above,	K 45 00	L 61 00	M 83 00
Satchel Climax Camera will cost, in addition to above:			
In Genuine Alligator,			Extra, \$15 00
In Imitation Alligator, Grained Leather,			10 00

PLATE HOLDERS.



THE "BENSTER" PLATE HOLDER

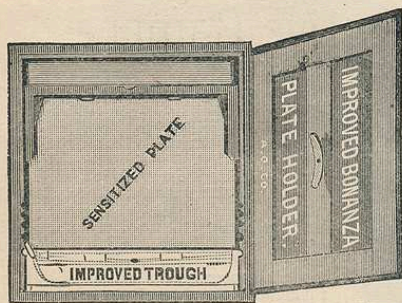
The Plate rests on pure silver wire, and there is a trough, with large bottle beneath, into which all the silver waste readily finds its way. As the trough is raised, the upper ledge descends, so that the center of the plate is at all times in the center of the holder, no matter what size is used.

The prices of Benster Holders for Portrait Cameras are as follows:

For 8 x 10 plate and under, 12½ inches wide, 13½ inches high,	\$10 00
" 8 x 10 " " 13½ " 13½ "	10 00
" 10 x 12 " " 15 " 15 "	14 00
" 11 x 14 " " 17 " 17 "	18 00
" 14 x 17 " " 20½ " 21 "	22 00
" 17 x 20 " " 23½ " 24 "	25 00
" 20 x 24 " " 28 " 28½ "	35 00
" 22 x 27 " " 31 " 31½ "	40 00

Special sizes, to order, will cost 20 per cent. additional.

THE IMPROVED BONANZA PLATE HOLDER.



THE MOST POPULAR HOLDER FOR BOTH WET AND DRY PLATES IN THE GALLERY.

Bonanza Holders cannot be put on any Camera that will not take a silver-saving bottle in the holder.

6½ x 8½	\$ 9 60	14 x 17	\$24 00
8 x 10	10 00	17 x 20	27 50
10 x 12	16 00	40 x 24	35 75
11 x 14	21 50	25 x 30	44 00
Bonanza Holder for Cincinnati Camera		12 75	

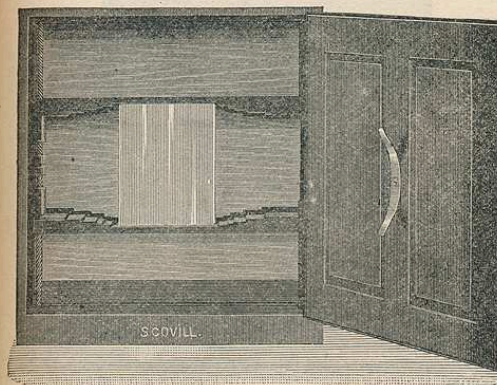
Trough for Bonanza Holders one-half the price of the Complete Holder.

AMERICAN OPTICAL CO.'S PLATE HOLDERS.—PATENT GLASS CORNERS, REVERSIBLE.

Size for 1-4 Box, Outside Holder only, \$ 4 40	Outside Holder and Inside Kits, \$ 5 50
" 1-2 " " " 4 80	" " " " 6 60
" 4-4 " " " 7 30	" " " " 9 30
" 8-10 " " " 8 50	" " " " 11 90
" 10-12 " " " 11 00	" " " " 15 00
" 11-14 " " " 13 40	" " " " 19 40
" 14-17 " " " 16 80	" " " " 24 00
" 17-20 " " " 19 50	" " " " 27 00

PLATE HOLDERS--Continued.

THE WATERBURY DRY PLATE HOLDER IS THE BEST ONE FOR THE STUDIO.



(PATENT APPLIED FOR.)

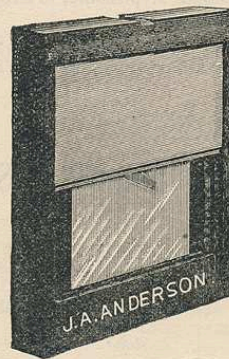
The Waterbury Holder may be adjusted to various sizes of plates quicker and easier than any other holder. No kits are required, and the plates used must be in the center; in fact, they cannot be out of the center, and may be laid in the proper place in the dark.

All American Optical Company's Portrait Cameras will be fitted with the Waterbury Holder, where so ordered, at the regular catalogue prices.

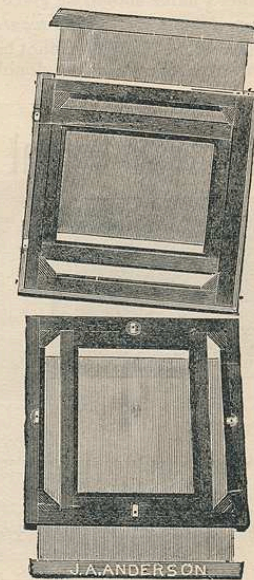
PRICE LIST OF WATERBURY HOLDERS.

6½ x 8½	\$ 8 75	17 x 20	\$ 24 00
8 x 10	9 50	18 x 22	27 00
10 x 12	14 40	20 x 24	32 00
11 x 14	18 00	25 x 30	40 00
14 x 17	22 00		

BONANZA CURTAIN SLIDE HOLDER.



ANDERSON'S DOUBLE DRY PLATE HOLDERS.

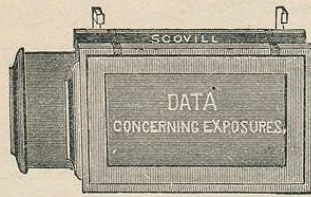


This holder is now so well known that a description will hardly be necessary.

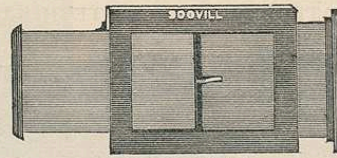
For 5 x 7 plate,	\$ 5 00
" 6½ x 8½ "	7 00
" 8 x 10 "	9 00
" 10 x 12 "	12 00
" 11 x 14 "	14 00
" 14 x 17 "	18 00
" 17 x 20 "	20 00
" 18 x 22 "	23 00
" 20 x 24 "	26 00
" 22 x 27 "	30 00

No. 53	6½ x 8½	each \$ 5 00
	8 x 10	" 6 00
	10 x 12	" 8 00
	11 x 14	" 9 00
	14 x 17	" 10 25

Scovill's Dry Plate Holders.



THE DAISY.



SCOVILL'S PATENT.

SIZE.	Scovill's Patent Double Dry Plate Holder. Kits Extra.	Daisy Double Dry Plate Holder. Kits Extra.	Scovill's Patent Double Dry Plate Holder.
4 x 5	\$ 1 75	\$ 2 00	\$ 1 75
4½ x 5½	1 85	2 10	1 85
4¼ x 6½	1 90	2 25	1 90
5 x 7	2 10	2 35	2 10
5 x 8	2 20	2 50	2 20
6½ x 8½	3 80	4 20	3 80
8 x 10	5 00	6 00	5 00
10 x 12	7 00	8 00	7 00
11 x 14	8 50	10 00	8 50
14 x 17	10 80	12 50	10 80
17 x 20	*	15 50	13 00
18 x 22	*	18 00	15 00
20 x 24	*	21 50	18 00
25 x 30	*	26 00	25 00

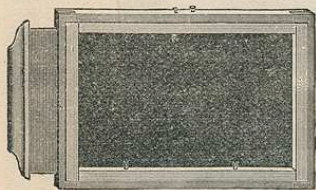
* Not made because of the weight of holder and of double thick glass.

In ordering holders, parties should send their old holder as sample, if possible, to avoid mistakes, otherwise maker's name should be given and *exact dimensions* of old holder.

Please specify *whether hits are wanted or not.*

Double Dry Plate Holders cannot be put on any cameras having a carriage at the back, as this frame will not permit of a reversal of the double holders.

Rochester Optical Co.'s Double Dry Plate Holders.

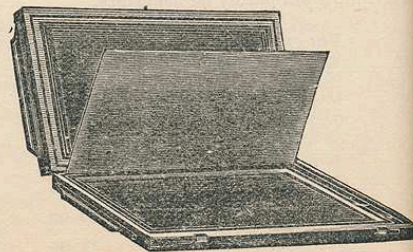


MODEL DOUBLE HOLDER.

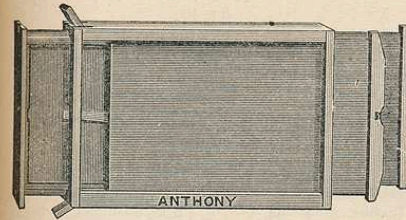
3¼ x 4¼	\$1 50	5 x 8	\$2 00
4 x 5	1 50	6½ x 8½	2 50
4¼ x 6½	1 75	8 x 10	4 00
5 x 7	2 00		

ENGLISH BOOK HOLDER.

3¼ x 4¼	\$2 00	6½ x 8½	\$3 50
4 x 6	2 25	8 x 10	5 00
4¼ x 6½	2 35	10 x 12	7 00
5 x 7	2 50	11 x 14	9 00
5 x 8	2 60	14 x 17	12 00



Anthony's Dry Plate Holders.



ANTHONY'S PATENT PERFECT DOUBLE DRY PLATE HOLDERS OR SHIELDS.

4 x 5	\$ 2 00
4¼ x 6½	2 25
5 x 8	2 25
6½ x 8½	4 00
8 x 10	5 00

ANTHONY'S ECLIPSE AND NOVELETTE DOUBLE DRY PLATE HOLDERS.

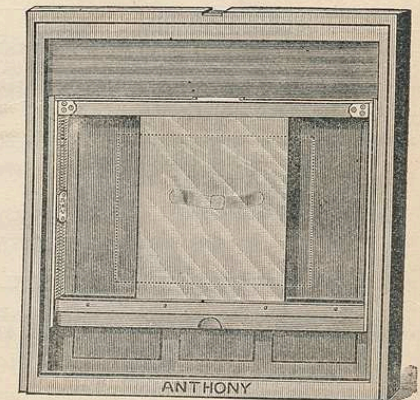
PRICES.

Outside Dimensions of Plate Holder.	Size of Plate	Novelette or Eclipse.	Fairy.
5¼ x 7½	4¼ x 6½	\$ 2 40	\$ 3 00
6 x 9	5 x 8	2 40	3 00
7½ x 10	6½ x 8½	4 00	5 00
9 x 11½	8 x 10	5 00	6 00

ANTHONY'S CLIMAX DRY PLATE HOLDERS.

For Climax Reversible Back Cameras.

6½ x 8½ Double (folding)	\$ 5 50
8 x 10 " "	6 50
10 x 12 Single	6 50
11 x 14 " "	7 50
14 x 17 " "	10 50
17 x 20 " "	11 75
18 x 22 " "	15 00



Sizes above 8 x 10 are made single, and with an improved curtain slide. Double holders are made to order only, and without curtain slide, at 25 per cent. additional cost.

Above prices are for holders without kits.

Kits, Slides, Front Boards, &c., &c.

S. G. C. KITS OR INSIDE FRAMES.

AMERICAN OPTICAL Co.'s MAKE.			
To hold	Fits in	Price, \$	
1-6	1-2	55	
1-4	1-2	65	
1-2	4-4	85	
4 1/2 x 6 1/2	4-4	85	
5 x 7	4-4	80	
4 1/2 x 6 1/2	8 x 10	95	
5 x 7	8 x 10	95	
5 x 8	8 x 10	90	
6 1/2 x 8 1/2	8 x 10	90	
8 x 10	10 x 12	1 20	
8 x 10	11 x 14	1 30	
10 x 12	14 x 17	1 80	
11 x 14	14 x 17	1 75	
11 1/2 x 11 1/2	fits in outside holder for Cincinnati Gem Box	1 30	

RABBETED INSIDE KITS FOR FERROTYPES.

To hold 5 x 7 Plate, fits in 7 x 10 Shield, -	\$ 40
" 5 x 7 " 8 x 10 " -	40
" 7 x 10 " outside holder, -	66
" 5 x 8 " 8 x 10 " -	40
" 5 x 7 " 6 1/2 x 8 1/2 " -	35
" 1-2 " 5 x 7 " -	30
11 1/2 x 11 1/2 outside for 7x10 plate, fits in outside holder of Cincinnati Gem Box -	66

FRONT BOARDS.

MADE OF SPANISH MAHOGANY, FINELY FINISHED.

2 x 2 inches, \$ 32	8 x 8 inches, \$1 25
3 x 3 " 40	9 x 9 " 1 50
4 x 4 " 50	10 x 10 " 1 80
5 x 5 " 60	12 x 12 " 2 00
6 x 6 " 75	14 x 14 " 2 40
7 x 7 " 1 00	

Fractional sizes priced at next higher even size.
Plain Black fronts, one-half above price.
Sliding fronts for '76, Philadelphia or Model Stereoscopic Cameras, - - - - - \$1 20
Plain fronts for '76, Philadelphia or Model Stereoscopic Cameras, - - - - - 60

RABBIT KIT FRAMES FOR WET OR DRY PLATES.

OUTSIDE MEASUREMENT. ANY OPENING.

4 x 5 \$ 0 28	5 x 7 \$ 0 31	8 x 10 \$ 0 40	14 x 17 \$ 0 80
4 1/2 x 5 1/2 29	5 x 8 32	10 x 12 60	
4 1/2 x 6 1/2 30	6 1/2 x 8 1/2 34	11 x 14 66	

When ordering please specify whether Rabbit Kits are wanted for wet or dry plates on account of difference in thickness.

ANTHONY'S INSIDE DRY PLATE KITS.

Thin wooden frames to hold small-sized plates, fitting in larger shields, thus enabling the amateur who has a large camera to use small plates as well as large ones.

To fit Shields 4 x 5—3 1/2 x 4 1/2 each, \$0 25	To fit Shields, 10 x 12— 8 x 10 each, \$0 55
" 5 x 8—3 1/2 x 4 1/2, 4 x 5, and 4 1/2 x 5 1/2, " 30	" 11 x 14— 8 x 10, 10 x 12 " 60
" 6 1/2 x 8 1/2—4 x 5, 5x8, 4 1/2 x 6 1/2, 5x7, " 30	" 14 x 17—11 x 14 " 75
" 8 x 10—4 1/2 x 6 1/2, 5x7, 5 x 8, 6 1/2 x 8 1/2, " 35	" 18 x 22—17 x 20 " 1 00

DIAPHRAGMS, DIVIDERS, ETC.—FOR AMERICAN OPTICAL Co.'s GEM BOXES.

	Each.		Each.
Card or Cabinet Diaphragms for Cincinnati Gem, \$0 50	50	Gem Dividers for Victoria Gem,	50
" " " " Victoria " 50	50	" " " " New York "	35
" " " " New York " 45	45	Hood and Brass Plate for Cincinnati Gem	3 10
Ferro Diaphragm for 4 pict. " Cincinnati " 65	65	Hoods only	1 80
" " " 8 " " " 65	65	Hood and Brass Plate for Victoria Gem	3 10
" " " 4 " " Victoria " 60	60	Hoods only	1 80
" " " 8 " " " 60	60	Hood and Brass Plate for New York Gem	2 35
Card " " New York " 45	45	Hoods only	1 55
Gem Dividers Cincinnati " 50	50		

Anthony's Extra Parts of Apparatus.

Including Slides for Holders and Front Boards, Ground Glass, Focus Screws, Tripod Screws, and Bellows for Cameras.

	Wood Slides for Novel Holders.	Pass Board Slides for Novel Holders.	Rubber Slides for Fairy and Novette Holders.	Front Boards for Novel Cameras.	Fine Ground Glass for Fairy and Novel.	Focus Screws for Novel Cameras.	Wood Slides for Benster Holders.	Front Boards for Climax Portrait Cameras.	Front Boards for Climax View Cameras.	Rubber Bellows for Climax Portrait Cameras.	Cone Rubber Bellows for Climax View Cameras.	Cone Bellows for Novel Cameras.	Rubber Bellows for Dry Plate Outfits.	Tripod Screws for Novel Cameras.
3 1/2 x 4 1/2	\$0 10	\$0 15	\$0 20	\$0 10							\$1 25			\$0 25
4 x 5	10	20	30	10							2 00		\$1 25	25
4 1/2 x 5 1/2				15				\$5 50	\$0 50	\$2 00	\$3 00			
4 1/2 x 5 1/2	15	25	30	15	\$1 75								2 00	1 50
5 x 8	15	30	40	20	1 75								3 00	1 75
6 1/2 x 8 1/2	20	40	60	25	1 75			60	60	4 50	5 50		3 50	2 25
8 x 10	20	50	60	32	1 75		\$0 70	80	60	6 00	7 00		4 00	2 75
10 x 12	\$0 75		60	50	1 75		1 25	80	60	8 00	9 00		5 00	25
11 x 14	1 15		60	75	2 00		1 60	80	60	10 00	11 00		7 00	50
14 x 17	1 35		60	1 00	2 00		1 00	80	12 00	13 00	10 00			50
17 x 20	1 60		60	1 35	2 00		2 50	1 25	1 00	15 00	16 50		16 00	50
18 x 22	2 00		60	1 65	2 00		2 75	1 25	1 00	18 00	20 00		20 00	50

Rochester Optical Co.'s Extra Parts of Apparatus.

HOLDER SLIDES.

3 1/2 x 4 1/2	\$0 15	5 x 8,	\$0 25
4 x 5	15	6 1/2 x 8 1/2,	30
4 1/2 x 6 1/2	20	8 x 20,	35
5 x 7	20		

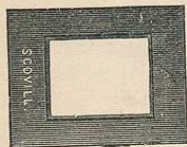
FRONT BOARDS.

To fit New Model, up to 6 1/2 x 8 1/2, - - -	\$0 25
" " " 8 x 10, - - -	35
" New Model Improved or Peerless, up to 6 1/2 x 8 1/2,	40
" " " " 8 x 10,	50
" Ideal or Excelsior, to 6 1/2 x 8 1/2, - - -	40
" " " 8 x 10, and above. -	50
Front Board and division for Stereo work, -	50

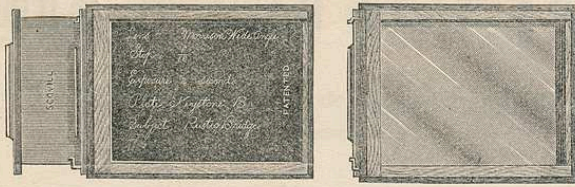
MISCELLANEOUS.

Caps for R. O. Co.'s Lenses, each, - - -	25
Diaphragms for R. O. Co. Single View Lens, per set, 60	
" " " Excelsior Lens, " 75	
Morocco Case for Diaphragms for Excelsior Lens, 60	
Flanges for R. O. Co. Single View Lens, - - -	50
" " " Excelsior Lens, - - -	75
Cam-Buttons, for holding holder on Ideal, each, 25	
Buttons with eccentric groove for reversing back on Ideal, each, - - -	25
Spring-Catch, for holding holder on New Model, each, 35	
Tripod Head for Standard Tripod, - - -	50
Wood Head for Combination Tripod, - - -	50
Tripod Screws, each, - - -	25
Ruby Glass for Pocket Lantern, - - -	10
Ruby or Orange Glass for Peerless Lantern, -	20

All Special Extra Parts to order only.



Scovill's Patent Registering Slides.



These slides can be written upon with slate or lead pencil, *ad libitum*, and the writing erased without injury to them. Before taking a picture the mottled surface of these slides is seen; afterward they are turned, so that the blackboard surface which was toward the sensitive plate, is out, and the data respecting the exposure are pencilled thereon—a very convenient place, by the way to consult it when developing the plates. Additional holder-slides of this kind supplied at the following prices:

Size for 3 1/4 x 4 1/4, each.....	\$ 0 18	Size for 5 x 7 each.....	\$ 9 35
" 4 x 5 "	20	" 5 x 8 "	40
" 4 1/4 x 5 1/2 "	24	" 6 1/2 x 8 1/2 "	55
" 4 1/4 x 6 1/2 "	28	" 8 x 10 "	75

SCOVILL'S SUNDRY PIECES.

	Holder Slides.	Focusing or Adjusting Screws. (Not Lever Pattern.)
1-4 Plate Camera	\$ 0 27	\$ 2 25
4 x 5 "	32	2 25
1/2 "	34	2 25
4 1/4 x 6 1/2 "	36	2 25
5 x 7 "	38	2 25
5 x 8 "	40	2 25
6 1/2 x 8 1/2 "	45	2 25
8 x 10 "	72	2 70
Cincinnati Camera,		3 00
10 x 12 "	1 35	2 70
11 x 14 "	2 02	2 70
14 x 17 "	2 25	4 50
17 x 20 "	2 70	4 50
18 x 22 "	3 15	4 50
20 x 24 "	3 60	4 50
25 x 30 "	5 40	4 50

FOR INDIA RUBBER SLIDES add 40 per cent. to list prices of Regular Slides.

FOCUS LEVERS.

For 8 x 10 Camera.....\$ 2 00 | For 14 x 17 Camera and larger.. \$2 50

Anderson's India Rubber Bellows.

For 1-2 Box.....price, \$	2 00	For 11 x 14 Box.....price,	\$ 8 00
" 5 x 8 Stereo Box.....	2 25	" 14 x 17 "	10 00
" 4-4 Box.....	3 50	" 18 x 21 "	12 75
" 8 x 10 "	5 00	" 20 x 24 "	15 00
" 10 x 12 "	6 50		

CAMERA STANDS AND TRIPODS.

The Latest Improved Gem City Camera Stand.

Handiest, Strongest, Most Complete, any Size Camera from 8x10 to 25x30 Accurately Counterbalanced.

WARRANTED SATISFACTORY.

The only balance Stand in the market that is a PERFECT SUCCESS.

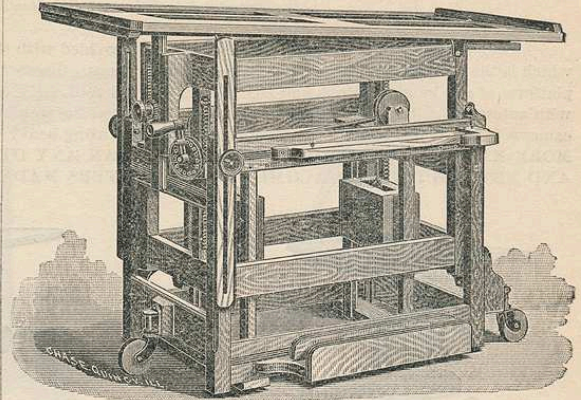
All desired changes made with less labor and in half the time required by any other.

Three turns of the (entirely new and superior) elevating crank will raise or lower the bed fourteen inches.

By LOOSENING THE HANDLE, a self-acting stop, catching in a dial, instantly holds the center frame perfectly rigid at any height desired by the operator.

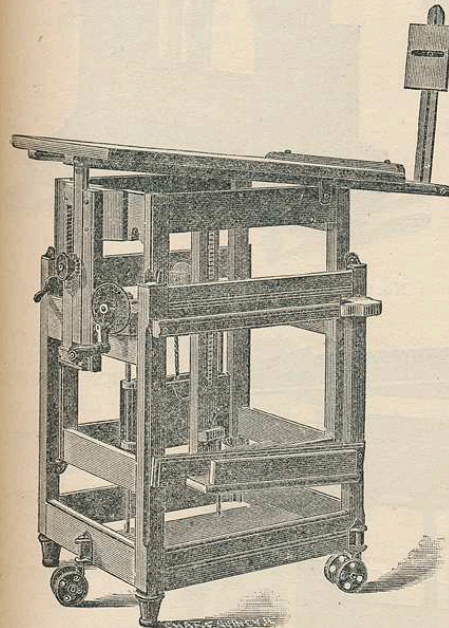
Any loose or rickety motion in the up-and-down movement of the center frame is avoided by means of improved friction rollers bearing reciprocally against the top and bottom of the corner post.

These rollers render the raising and lowering of the bed perfectly true and easy, and prevent all tendency to bind.



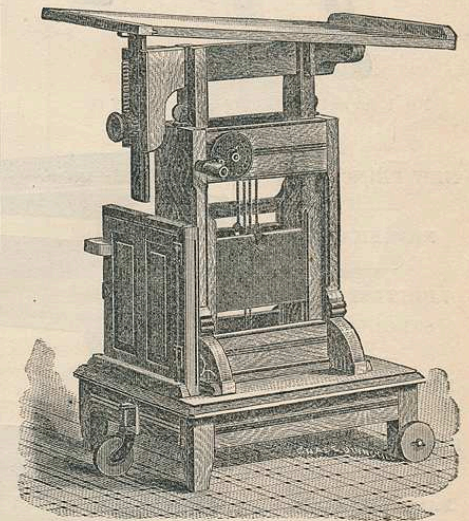
This Cut represents Nos. 3 4 and 5.

No. 1, for 4-4 to 10 x 12 Cameras, 30 in. Bed,	\$ 22 00
No. 2, " 11x12 to 14 x 17 " 40 "	22 00
No. 3, " 14x17 to 18 x 22 " 48 "	25 00
No. 4, " 20 x 24 " 52 "	30 00
No. 5, " 15x30 Camera, made to order only,	35 00



Above Cut represents Nos. 1 and 2.

BONANZA CAMERA STAND.



Especially designed for 8x10 Cameras and smaller. One of the best medium priced Stands in our list.

In Polished Ash.....	\$15 00
In Polished Walnut.....	18 00

An improved arrangement for holding the plate holder has also been made. This can be adjusted to any height at the side, and keeps the plate holder perfectly safe while the stand is being moved.

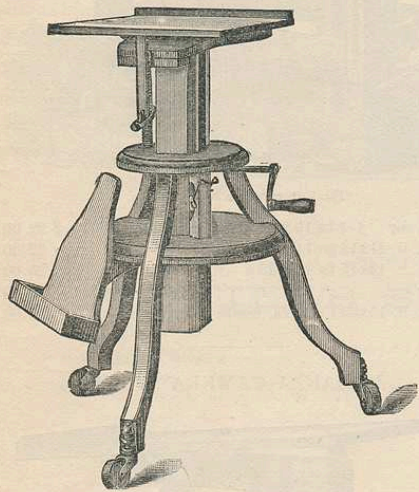
They are made entirely of hardwood, are thoroughly constructed, well finished, and the best in the market for heavy Cameras. They are supplied with the copying attachment as shown in above cut.

SEND US YOUR MEMORANDUM, AND GET OUR PRICES BEFORE YOU BUY.

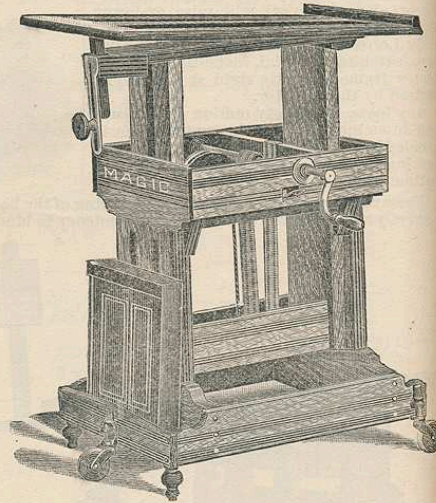
THE MAGIC CAMERA STANDS.

Patented July 29th, 1884, and May 5th, 1885.

They are made of Ash, nicely finished, and are provided with the windlass and pulley system of elevation, which is the BEST, and with automatic patent roller stops. These stops bind rigidly the frame supporting the platform at any height desired, and DO AWAY WITH ALL SET SCREWS. Nos. 2, 3 and 4 are also provided with automatic coil springs which bear the greater part of the weight of the cameras, so that the elevation of the cameras is accomplished with the greatest ease without using heavy weights. They are LIGHTER, STRONGER, MORE EASILY AND RAPIDLY OPERATED THAN ANY OTHER, and are supplied with the LATEST AND BEST TILTING ATTACHMENTS AND CASTERS MADE.



No. 1, for 8x10 and 10x12 Cameras, \$12 00



No. 2, for 8x10 to 11x14 Cameras, \$15 00

NEW PRINCIPLE.

NEW SHAPE.

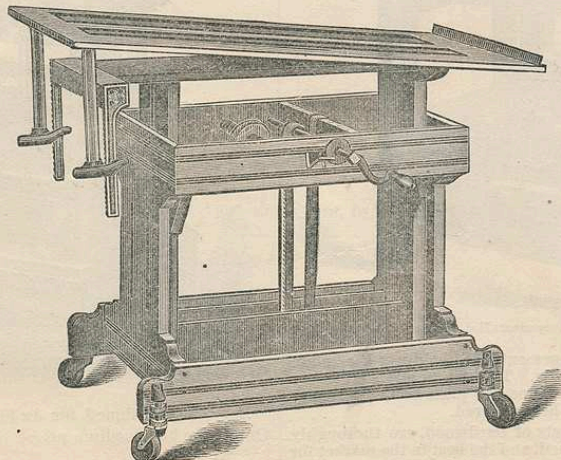
LIGHTEST AND STRONGEST.

MOST DURABLE.

FINELY FINISHED

EASY WORKING.

NO NOISE.



No. 3, for 14 x 17 Camera \$ 20 00

No. 4, for 18 x 22 or 20 x 24 Camera. 25 00

NO IRON WEIGHTS

NO SET SCREWS.

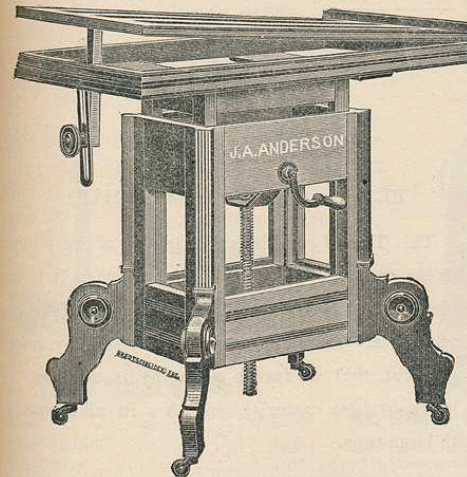
NO WEAK PARTS.

PERFECTLY STEADY

ALWAYS RELIABLE

READILY ADJUSTED

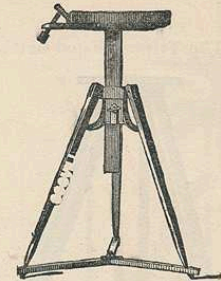
IMPERIAL CAMERA STAND.



No. 59—For 11x14 and smaller cameras.....\$10 00

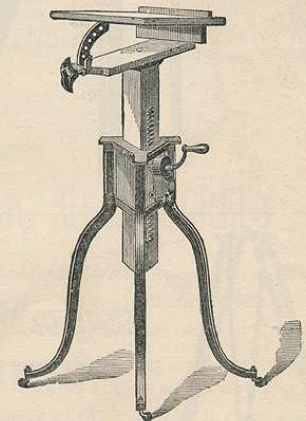
No. 60— " 14x17 " " " 15 00

EXCELSIOR CAMERA STAND.



8x10..... \$3 00

THE ACME STAND.



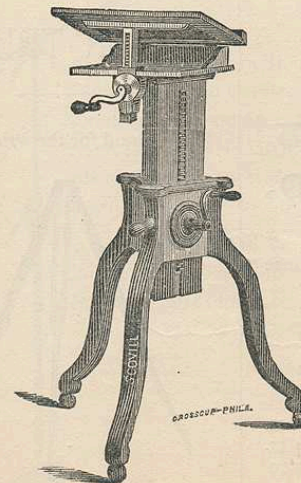
No. 1.

Price of No. 1, 4-4 Box..... \$7 75

No. 2.

Price of No. 2, inclined-plane top... \$11 50

THE PERFECT STAND.

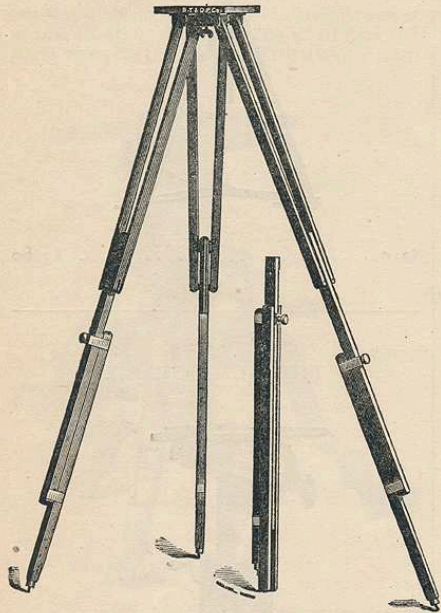


Price, Am. Opt. Co.'s make.....\$12 00

We offer this stand as the best in the market for the money. The No. 1 is designed for the 4-4 and smaller boxes. No. 2 is a much better stand, larger and more durable, especially adapted for 8-10 boxes. These stands can be quickly taken apart.

TRIPODS.

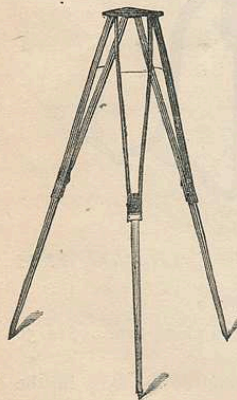
The Tripods listed below are the only ones we can conscientiously recommend.



BLAIR COMBINATION TRIPOD.

This Tripod combines the rigidity of the folding with the convenience of the sliding tripod. It is extra length when open, and folds shorter than the ordinary style. Its merits are so readily seen by referring to cut, that we forego a lengthy description. It is made of best material, and A 1 in all respects, with large tops.

- Size No. 1.—intended for 6½x8½ camera.....\$4 50
- “ 2 “ “ 8x10 & 11x14 camera.....6 00
- “ 3 “ “ larger cameras.....7 50



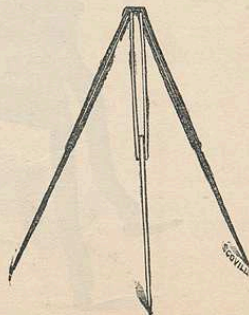
SCOVILL'S PEERLESS TRIPOD.

This tripod is more generally in use than any other make.

- No. 1. Stereo. double jointed legs, 6 inch wood top.....\$2 85
- “ 2. “ “ “ “ 12 “ “ “ 4 75
- “ 3. “ hinged legs, 12 “ “ “ 5 70
- “ 4. “ “ “ “ 11 “ metal “ 9 50
- “ 5. Six foot, rigid legs, 12 “ wood “ 6 00
- “ 6. “ “ “ “ 15 “ “ “ 8 00

TAYLOR TRIPODS.

Good for the Price.



Price each.....\$2 00

HEAD RESTS.

THE SUCCESS HEAD RESTS.

EXTRA FINISH.

- Tall \$3 00
- Short 2 75
- Either of above with Scholten Head-clip, ex. 1 00
- Back supports, 75

The so called Hess Rest is a much inferior article in comparison.



THE SUCCESS.

Parts of Success Head-Rests.

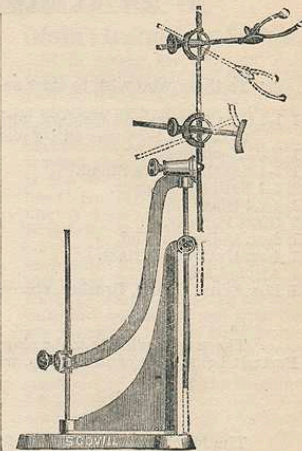
- Base \$1 00
- Short Pillars 1 00
- Tall Pillars 1 25
- Rods 50 and 60
- Ear Pieces or Head-Clips 1 00
- Cross-Heads..... 40
- Comets or Prongs for Head-Clips, each, 30



THE RICID HEAD-REST.

As its name implies, this rest is believed to possess, in an eminent degree, the quality of being much more rigid, and consequently much more practical than any other rest. Its movements, also, are unusually diversified, and its mechanism exceedingly simple.

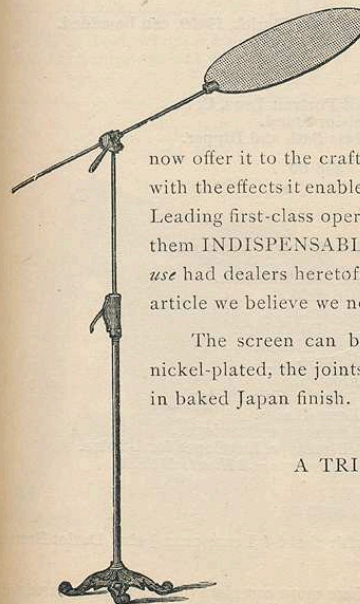
Nickel-plated, \$12 50



THE SPENCER HEAD-REST.

The best and most complete head-rest yet introduced. It affords an effectual and firm support to the person posed, and is quickly adjusted alike for a child or tall subject, without the removal of any parts.

Nickel-plated rods, \$14 50



THE MAGIC HEAD SCREEN.

We have just completed this new article of Apparatus, and now offer it to the craft, confident that all who give it a trial will be more than pleased with the effects it enables them to produce by softening high lights or deepening shadows. Leading first-class operators who have used head screens for several years pronounce them **INDISPENSABLE**, and there is no doubt but what they would now be in *general use* had dealers heretofore been prepared to supply them. So that in introducing this article we believe we not only supply “a long-felt want,” but a *great need*.

The screen can be adjusted *instantly*, to any height or position. The rods are nickel-plated, the joints have new, quick-acting cam, locks, and the base is ornamental in baked Japan finish.

A TRIAL WILL INSURE ITS PERPETUAL USE.

Price, complete,.....\$4 75

FERROTYPE OUTFITS.

OUTFIT No. 1.

To those who wish to start on a small scale, the following outfit will suffice for a beginning:

- | | |
|--|--|
| 1 1-4 Gem Camera and Holders, with 4 1-9 Gem Lenses to make 4 1-9 Gems on 1-4 plate. | 1 Instruction Book, <i>The Ferrotype</i> , and <i>How to Make it</i> . |
| 1 Tall Head Rest. | 1 Box 1-4 Ferro. Plates. |
| 1 1-4 Excel. Camera Stand. | 500 No. 4 Ferrotype Envelopes. |
| 1 1-4 Bath and Dipper. | 1 pt. Silver Bath Solution. |
| 1 4 x 4 Glass Dish. | ½ lb. Ferrotype Collodion. |
| 2 Glass Funnels. | 1 lb. Acetic Acid. |
| 1 2-oz. Collodion Vial. | ½ lb. Cyanide Potassium. |
| 1 4-oz. Graduated Glass. | 1 lb. Sulph. Iron. |
| 1 Alcohol Lamp. | 1 Bottle Varnish. |
| 1 Box Ferro. Colors, Brushes, etc. | 1 pt. 95° Alcohol. |

Total, - - - \$38 00

Those who wish to make single pictures, 1-9, 1-6 and 1-4 sizes, can do so with this outfit, by adding a ¼ Darlot Portrait Lens, with central stops, which will cost, extra, \$8 75.

OUTFIT No. 2.

The following outfit will be found the best for traveling business on a small scale:

- | | |
|--|--|
| 1 1-2 New York Gem Camera, fitted with 4 1-9 Gem Lenses, making 4-8 and 16 pictures on a 1-4 plate, also make 1-9, 1-6, 1-4 and 1-2 single Ferrotypes, and 2 card size on a 1-2 plate with one 1-4 or 1-2 size lens. | 1 pt. Silver Solution. |
| 1 1-2 Excel. Camera Stand. | 2 lbs. Sulph. Iron. |
| 1 Tall Head Rest. | 1 lb. Acetic Acid. |
| 1 1-2 Glass Glass Bath and Dipper. | ½ lb. Cyanide Potassium. |
| 1 5½ x 8½ Porcelain Tray. | ½ lb. Ferro. Collodion. |
| 1 Alcohol Lamp. | 1 Bottle Varnish Crystal. |
| 1 4-oz. Collodion Vial. | 1 Box Colors, Brushes and Gold Saucer. |
| 1 4-oz. Graduated Glass. | 1 pt. 95° Alcohol. |
| 2 Glass Funnels. | 1 Box each 1-4 and 1-2 Ferro. Plates. |
| | 100 No. 11 Ferrotype Envelopes. |
| | 1 1-inch Camel's Hair Duster for Plates. |
| | 1 Copy <i>The Ferrotype and How to Make It</i> . |

Total, - - - \$46 00.

With this outfit for single pictures, either a 1-4 Darlot, \$8 75; or ½ size Darlot, 17 50, can be added.

OUTFIT No. 3.

- | | |
|--|-----------------------------------|
| Same as No. 4, except— | 1 1-2 Darlot Portrait Lens, C. S. |
| 1 5x7 Victoria Box, fitted with 4 1-4 Darlot Gem Lenses; making 4 or 8 on 5 x 7 Plate. | 1 1-2 Excelsior Stand. |
| | 1 7 x 10 Glass Bath and Dipper. |

Total, - - - \$78 00

OUTFIT No. 4.

For those who wish to make larger pictures, the following will be found a good outfit:

- | | |
|---|--|
| 1 8x10 Cincinnati Gem Camera and Holder, carriage movement, fitted with 4 1-4 Darlot Gem Lenses, plain. | 3 pts. Silver Bath Solution. |
| 1 4-4 Darlot Portrait Lens, C. S. | 2 lbs. Acetic Acid. |
| 1 No. 2 Acme Camera Stand. | 2 lbs. Sulph. Iron. |
| 1 Tall Head Rest. | 1 lb. Cyanide Potassium. |
| 1 9 x 11 Glass Bath and Dipper. | 1 lb. Ferro. Collodion. |
| 1 8 x 10 Porcelain Tray. | 1 pt. Ferro. Varnish. |
| 1 Alcohol Lamp. | 1 pt. 95° Alcohol. |
| 1 8-oz. Collodion Vial. | 1 ½-inch Camel's Hair Duster. |
| 1 8-oz. Graduated Glass. | 50 10x14 Ferro-Plates. |
| 2 Glass Funnels. | 500 No. 11 Ferrotype Envelopes. |
| 1 Box Ferro. Colors, Brushes, etc. | 100 No. 15 Ferrotype Envelopes for 1-2 size. |
| | 1 Copy <i>The Ferrotype and How to Make It</i> . |

Total, - - - \$113 00.

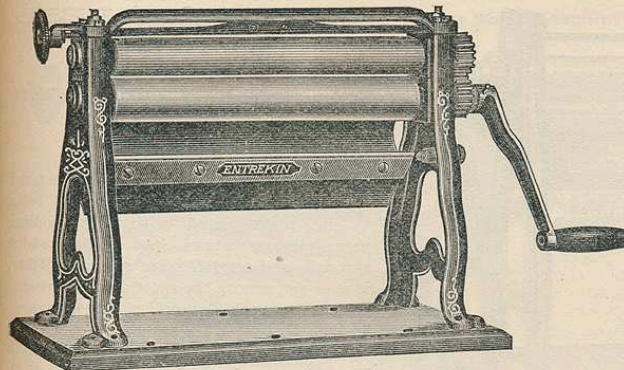
Those who do not care to make large pictures can dispense with the 4-4 Lens; or, a ½ size Darlot Portrait Lens can be substituted for \$17 50, making this outfit \$18 00 less.

NOTE.—To these outfits may be added other articles to make them more complete (but can be dispensed with if economy is an object), such as Backgrounds and Accessories, Posing Chair, Tent, etc.

BURNISHERS.

Entrekin's Accurate Rotary Burnisher.

With swing fire pan and one screw wheel adjustment, this is the most perfect device ever applied to a photograph burnisher for securing the pressure and giving perfect accuracy of adjustment with one motion. Another great advantage is the facility the photographer has to readjust the rolls in case of uneven wear of the journals and boxes by the lock nut and set screws placed upon the wedges at each end of the roll; perfect adjustment can be maintained at all times by simply loosening the lock nut, and adjust the roll with the set screw, and then tighten the lock nut. This is only to be done when the adjustment has become impaired by wear of the machine from long and constant use. We send with each machine a two-end wrench for this purpose.



The Latest—Patented Jan. 11, 1887.

PRICES.

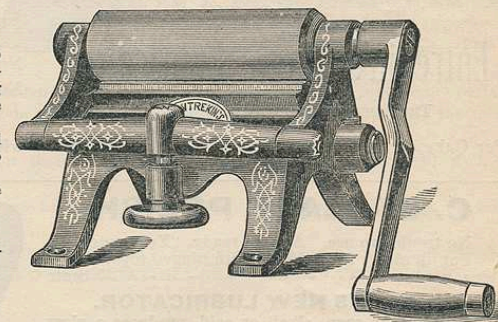
10 inch Roll, \$18 00 | 15 inch Roll, \$25 00 | 20 inch Roll, \$35 00 | 25 inch Roll, \$45 00 —
Prices include either the Oil Stove or Gas Burner, and the former sent unless specified.

BURNISHERS.—Entrekin's Patent Eureka Burnisher.

This burnisher can be heated with any kind of lamp—alcohol, coal oil or gas. During the process of heating the roll can be turned back from the burnishing tool, thereby preventing the condensation of moisture forming on the roll or tool.

To dress the burnisher tool the roll is simply turned back from the tool in an instant. No hot plates to handle, and consequently no burnt fingers.

This machine has also the Patent Removable Burnishing Tool, which is a decided advantage. Alcohol Lamps are sent with these machines.



PRICES.		BURNISHING TOOLS FOR ABOVE.	
6 inch Roll.....	\$13 00	6 inch.....each,	\$2 50
10 ".....	20 00	10 "....."	3 00
14 ".....	30 00	14 "....."	4 00
20 ".....	50 00	20 "....."	6 00
25 " with Cog Gearing,	60 00		

ACME FLUE-HEATING PHOTO BURNISHER.

This is not a Quadruplex, Duplex, Complex, or Perplexing Machine. It is simplicity itself.

TO SEE IT IS TO BUY IT.

The Latest Burnisher Out. Handsome Finish.

ECONOMICAL, Best Results.—No Moisture on Rolls.

IT CAN BE HEATED IN A FEW MINUTES.

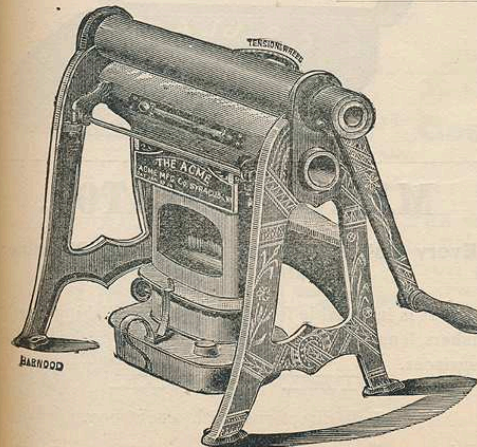
Perfect Combustion. No soot to be heated over and over again.

Heat gauged by Thermometer, and held at one point by turning wick up or down.

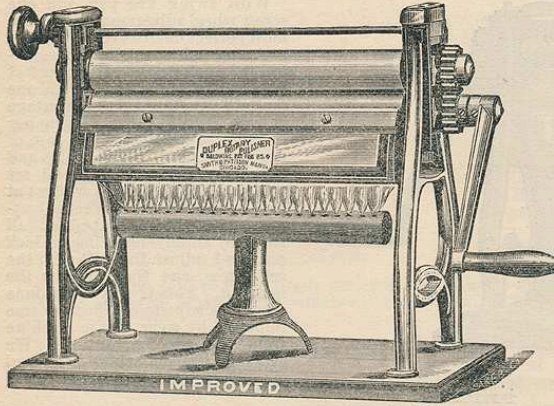
SEND FOR CIRCULARS.

EVERY MACHINE WARRANTED.

11 inch Roll, Gas or Oil, \$25 00
15 " " " " 35 00
21 " " " " 45 00



THE IMPROVED DUPLEX ROTARY POLISHER.



ONE OF THE BEST.

NEVER SCRATCHES.

No Lubricating. Easy to Work.

PRICES REDUCED.

THE Polishing Roller revolves a trifle faster than the feed roller. Both rollers being full nickel-plated—with this Burnisher your pictures never stop while passing through, and scratches are an impossibility. It does not remove the spotting or coloring.

PRICE INCLUDES GAS OR KEROSENE HEATERS.

10 inch	\$18 00
15 "	25 00
19 "	35 00
24 "	45 00

LUBRICATORS.

Entrekin's Magic Lubricator.

The Same as sent with his Burnishers.

Per Cake 15 cents.

ENTREKIN'S BURNISHER HEATERS.

FOR KEROSENE.

- No. 1, One wick for 10 inch.....\$1 75
- No. 2, Two wicks for 15 inch..... 2 50

The wicks of the above measure 4 inches in width.

C. S. GLACE POLISH.

No trouble to use. Always ready. Economical. Put up nicely in tin boxes with hinged tops. Price, per box 35 cents

GILBERT'S NEW LUBRICATOR.

Contains no soap, alkali or acid. produces a gloss nearly equal to enamel, and is a saving of time and the expense of using alcohol and ether.

DIRECTIONS.

Rub the cake upon a piece of canton flannel, then rub the photographs with it. The same flannel will lubricate a great many pictures without applying any more Lubricator. Pictures a little moist will give the best gloss.

Price, per cake 50 cents.



MAGIC RENOVATOR.

Every Gallery Wants a Box for Cleaning Burnishers, Etc.

It is invaluable for cleaning and polishing burnishers, lens mountings and all kinds of polished metal surfaces.

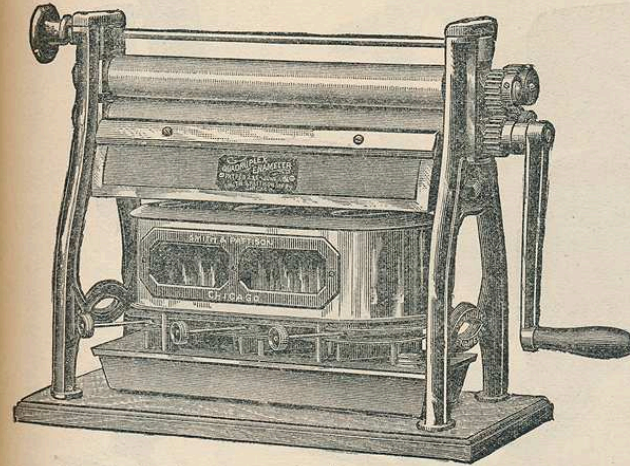
TRY A BOX.

Full directions with each box.

Price, per box..... 25 cents

THE QUADRUPLEX ENAMELER,

A Great Improvement Over Duplex Rotary Machines Heretofore Made.



IMPROVEMENT No. ONE consists of a new device for regulating the pressure on the cards by means of ONE HAND SCREW instead of two as heretofore used, making the pressure UNIFORM and POSITIVE the whole length of the roll, while with all "DUPLEX" machines it takes a great deal time and care to maintain a uniform pressure.

IMPROVEMENT No. TWO consists of such an arrangement of 4 cogs as enables the operator to adjust the distance between the rollers to accommodate any thickness of card from the very thinnest to the heaviest made, without visibly disconnecting or separating the cogs from each other, causing the rollers to revolve just as smoothly, and the gearing to operate just as perfectly on thick as on thin cards. This is

impossible when but 2 or 3 cogs are used.

IMPROVEMENT No. THREE covers the general construction of the machine. It is new in design and more perfect mechanically than any of the "Duplex" machines, one of the most noticeable improvements being in the roller bearings.

IMPROVEMENT No. FOUR consists of the BEAUTIFUL FINISH given these machines. They are nickel-plated, all over. They are a handsome ornament for any studio.

IMPROVEMENT No. FIVE consists of a new kerosene heater of our own design, which will heat them up fully one-third quicker than those heretofore used.

The finish given to photographs with this machine is superior in brilliancy to many "enameled" pictures we have seen, and much more durable than enamel. NO LUBRICATOR USED. NO SCRATCHES POSSIBLE. NO SPOILING OF PRINTS.

PRICES—(Gas or Oil Heaters Included.)

10 inch, \$25 00	15 inch, \$35 00	20 inch, \$45 00	25 inch, \$55 00
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The "Little Joker" Gasoline Burnisher Heater.

THE MOST RAPID BURNISHER HEATER KNOWN.

THE GASOLINE IS CONVERTED TO GAS, WHICH IN BURNING MAKES AN INTENSE HEAT.

NO DIRT! NO OIL!! NO SOOT!!!

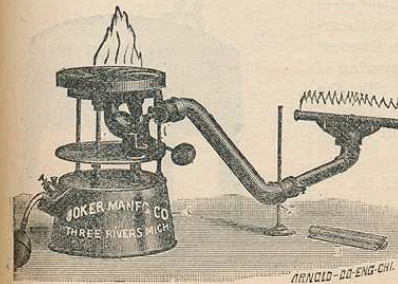
It is Simple, Safe, and Economical.

It can also be used for Drying Plates or Paper, Boiling Solutions, &c.

FULL DIRECTIONS ACCOMPANY EACH HEATER.

PRICES, FOR ANY SIZE BURNISHER.

For Heater alone, complete, - - - - \$7 00



CHAIRS.

THE "QUEEN" POSER.



This cut represents the Plush or Velveteen Cover, and Large Adjustable Arm for general posing.



This cut represents the "Raw Silk" Cover and Adjustable Back Rest.

This is the latest, and will be found the most useful Chair ever designed for the operating room, as it comprises in one piece of furniture the most desirable Chair made 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.

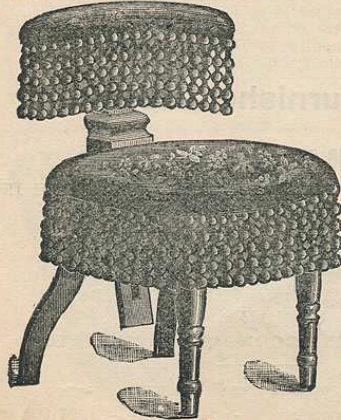
The back rest can be moved instantly, up or down, forward or backward, or given any desired angle, at will. The seat revolves on an elevating screw, enabling the positionist to get *any desired height of seat* as well as to *turn* his subjects at will, and thus does away with the necessity of asking them to "rise, while he changes the position of the chair."

The semi-circular back is new and rich in design, adjustable, and unsurpassed in usefulness, and the whole constitutes just what is essential in every well regulated operating room.

PRICES.

In Imitation Raw Silk, complete	each, \$12 50
In Drab Velveteen, complete,	" 14 50
In Mohair Plush, Plain or Embossed, complete,	" 16 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.



THE CEM POSER.

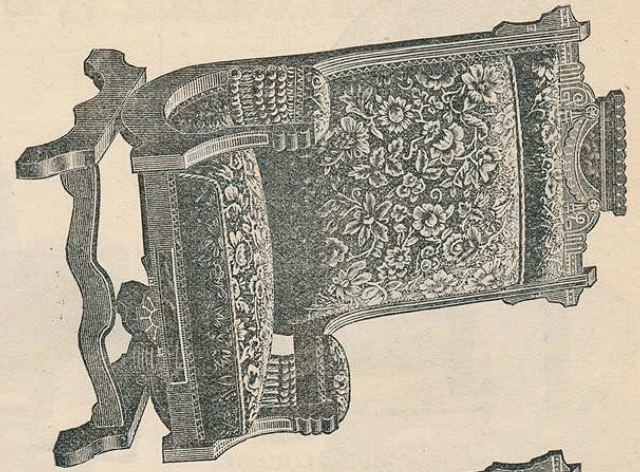
This is the popular "Sliding Back Chair," in an improved form and "new dress," which must certainly increase its attractiveness and popularity. The covering of the seat and arm is raw silk, the lower edges of which are trimmed with a neat, all wool ball fringe, 5 inches in depth.

Price, each, \$7 50.

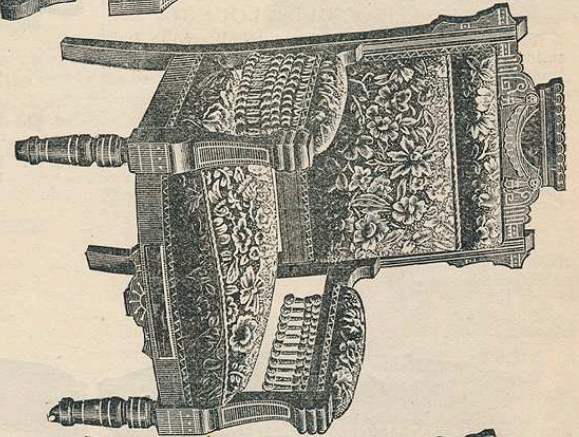
Anthony's Green Rep Sliding Back.



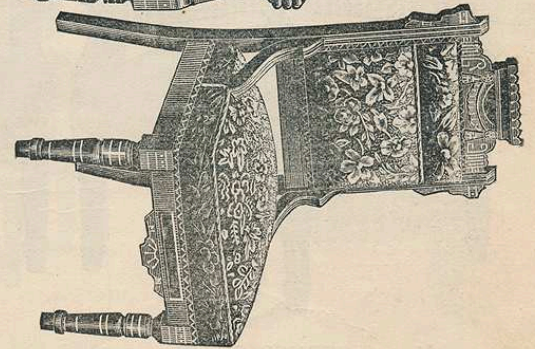
6 inch Fringe \$6 75



No. 180.—ROCKER.
Walnut Frame. Upholstered in a Mohair Plush, finely finished.
PRICE, each, \$11 00.



No. 181.
Same finish as No. 180.
PRICE, each, \$10 00



No. 182.
Same finish as Nos. 180 and 181.
PRICE, each, \$6 00

We will furnish this Set of Three Pieces together for
Should more of the No. 182 Chairs be desired with a Set, we will furnish additional ones at

\$26 00

5 50



"FAVORITE" CHILD'S LOUNGÉ.

Well made, with Spring Seat and upholstered in Imitation Raw Silk. Wood-work finished in oil; carving bronzed.

PRICE, ready for shipment, \$6 50

MATERIALS FOR RE-COVERING POSING CHAIRS.

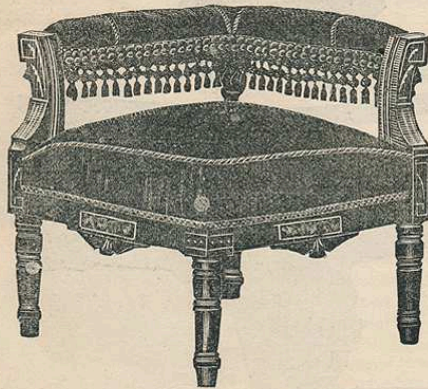
- All-Wool Green Fringe, 6 inch, per yard.....\$0 85
- Green Rep, 50 in. wide, according to quality, per yard, from \$1 50 to 2 50
- Drab Velveteen, 24 in. wide, per yard.....1 00
- Corduroy, Drab, 27 in. wide, according to quality, per yd., from \$1 50 to 2 00

DIVANS.



PRICES.

- No. 49. Imitation Raw Silk Cover, Plush Trimmings, - - - each, \$10 75
- No. 49. Embossed Mohair Plush Cover, with Silk Plush Trimmings, - - - each, 14 75



No. 24—CORNER CHAIR.

THE LATEST AND CHEAPEST.

Walnut Frame. Nicely Carved, Veneered, and Upholstered in Plush, with Fringe on Back.

PRICE, \$9 00



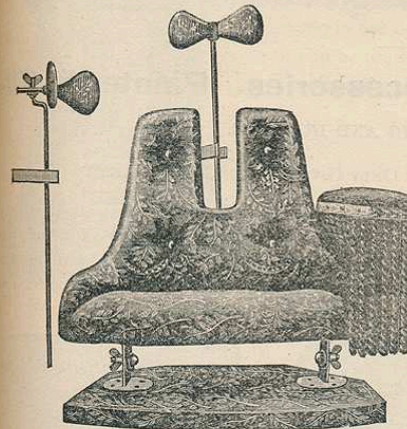
No. 24—WINDOW CHAIR.

WALNUT FRAME. UPHOLSTERED PLUSH.

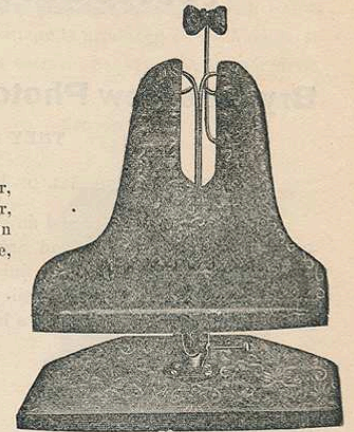
PRICE, \$9 50

These are all very fine chairs. We can furnish anything in way of Sofas, Divans, &c., &c., very low.

BALDWIN'S BABY HOLDER.



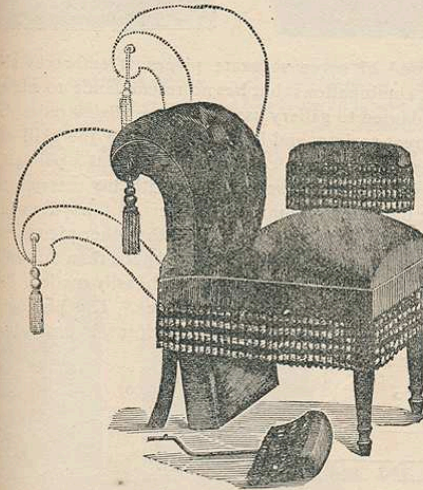
Not a Baby Chair, but a Baby Holder, that can be placed in any chair, on a table, etc., etc.



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 a baby firmly in position, without further assistance. Arms can be adjusted to either or both sides by an adjustable clamp.

Without Arms, \$8 50 | With One Arm, \$9 50 | With Two Arms, \$10 50

CHICAGO CHAIR, IMPROVED.



The improvement consists in having the back hung on a pivoted arc, which allows it, besides the movement of raising and lowering, to be adjusted at any angle back from the regular perpendicular. This is very useful in many positions.

In Drab Velveteen, \$20 00

CENTENNIAL POSING CHAIR.



For graceful and easy positions, it cannot be excelled.

- Upholstered in Plush, - \$25 00
- " " Velveteen, - 22 00
- " " Raw Silk, - 18 00

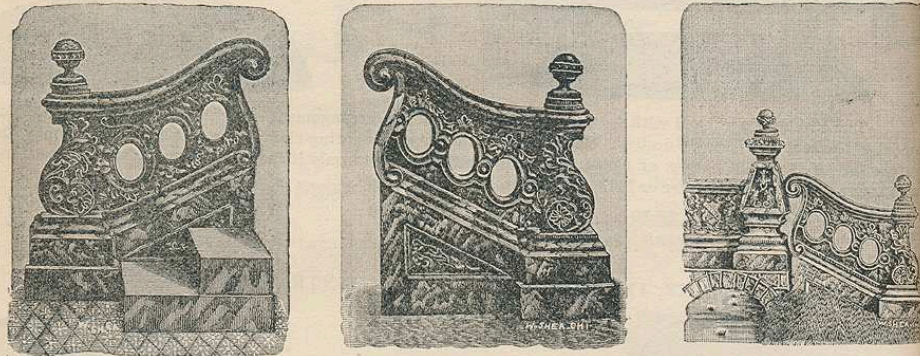
Accessories, Backgrounds, &c.

Bryant's New Photographic Accessories. Painted in Oil.

THEY ARE LIGHT, STRONG AND DURABLE.

(WE FURNISH ALL OF BRYANT'S GOODS BUT ONLY GIVE CUTS OF NEW STYLES.)

The design, quality and finish of all the Paper-Mache Accessories are greatly improved. They are absolutely free from smell, and are rat and vermin proof. They are painted in flatted oil, which has all the advantage of soft, dead finish and brilliancy obtained in water colors, without any of its disagreeable features. The paint will not rub at all, nor soil the most delicate fabric. The can be washed the same as other furniture, and a leaky skylight will not spoil them.



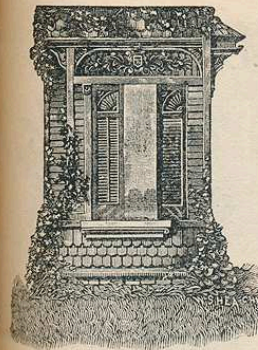
No. 389 Combination. Though only composed of seven separate pieces, it embraces all the best changes and positions obtained on 215 and 245 combinations, but has no resemblance to either of them; but it is a finer Accessory, and much better adapted to gallery use. It forms Balustrades, Stairways, Balconies, Bridges, Gateways, Stiles, &c., in great variety, and is only limited by the skill of the operator. 381 Balustrade and 388 Stairway forms parts of this combination. It has a painted slip, profiled on both edges, representing front of house, which can be used alone or with any exterior background, as a side slip at either end of ground. The Balcony is mounted on casters, is thirty-four inches square, and ornamented differently on its four sides. When not in use, all the other pieces can be placed on the Balcony and pushed out of the way, not occupying any more space than an ordinary Accessory. The combination is light and strong; the changes are simple and easily made. Photographs will be furnished with each combination sold, showing fifty-six changes. The photographs occupy six pages in sample book. The combination includes the separate water front, but not the Oil Thread Mats and Backgrounds used in photographing it.

389 Combination, complete, \$30 00 | Boxing, \$1 50

CABINET.

No. 374, Cabinet, 6½ feet high; made in elegant style, and finished in bronze; has two large and two small shelves; is capable of four changes. There are furnished with Cabinet ten extra pieces, consisting of pitcher, oriental vases and plaques finished in bronze.

Price of Cabinet complete, as shown in photos, \$20 00 | Cabinet alone, without bric-a-brac, \$15 00
Boxing, \$1 25

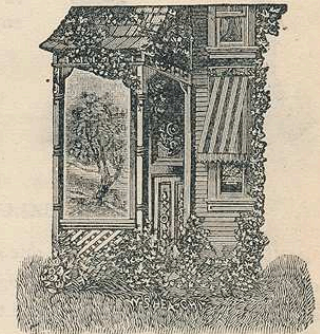


No. 372, Cottage Window; 7½ feet high by 5 feet wide, with blinds made to use open or shut. The Cottage is produced on each edge so it can be used on either side of any exterior background as a set piece, representing the corner of a house.

Price, \$10 00
Boxing, 1 00

No. 375, Cottage Portico; 7½ x 5½ feet; represents entrance to cottage; has an opening in portico for posing; finished in profile on both edges, and is a good set piece to use on either side of any exterior background. It is a very pretty and useful accessory.

PRICE, \$ 8 00
Boxing, 1 00



BOAT.

276. Boat. It is made to work well with any exterior ground, furnishing its own bands and water. Movable oar.

PRICE, \$5 00 | Special separate Water Front, \$1 50
Boxing, \$0 50

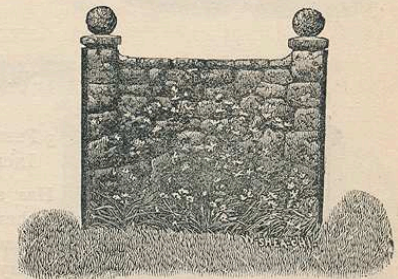
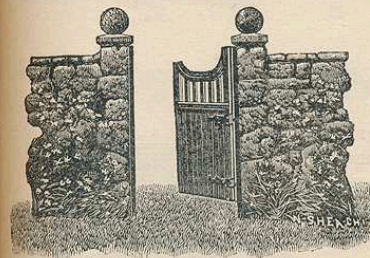
16-A. COTTAGE WINDOW, 7½ x 5 FEET.

PRICE, with Blinds \$10 00 | Boxing \$1 00
" without Blinds, 8 00 | Lace Curtain to be used with window, 1 00
The blinds are on hinges, and can be opened or closed.

10-A. PROFILE SET STAIRWAY, 8 FEET HIGH, WITH MOVABLE ORNAMENT ON POST.

PRICE, \$6 00 | Boxing, \$0 75

STONE WALL AND GATE.



No. 373. STONE WALL AND GATE COMBINATION; height of Wall, 3 feet.

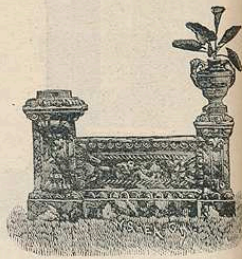
PRICE \$6 00 | Boxing, \$0 50

BALUSTRADES.



353. Balustrade, 5 feet long. Large Pedestal, 37 inches high; small, 31 inches high. The Pedestals are both square. The ornamentation is different on the two sides. It is suitable for sitters of any size.

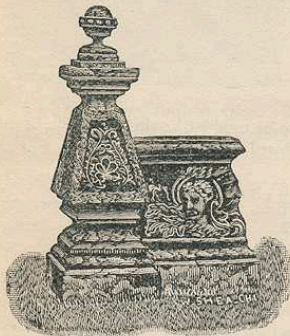
Price of Balustrade alone,	\$10 00
Six inch Separate Base,	2 00
Large Vase and Plant,	2 50
Small Vase and Plant,	2 00
Boxing,	75



No. 237, BALUSTRADE, 32 INCHES HIGH AND 3 1/2 FEET LONG.

The Pedestal is round on one side and square on the other. The style and ornamenting is entirely different on opposite sides, making two distinct Balustrades in one. Will work well with subjects of any size, but is especially adapted to photographing children.

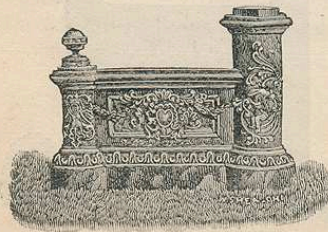
Price, without Vase	..... \$ 8 00	Price, 6 inch Base separate	..... \$2 00
" with 12 inch Vase and Bouquet,	10 00	Boxing	..... 50



No. 381, SHORT BALUSTRADE,
37 INCHES HIGH, LOOSE ORNAMENTS
9 INCHES HIGH.

The ornamenting on each side is different, is rich and effective. It is part of 389 Combination.

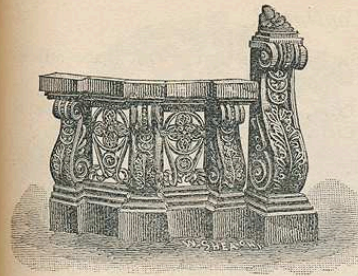
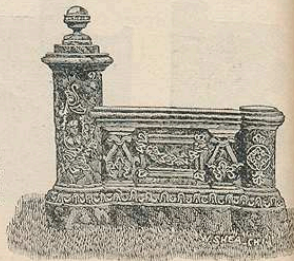
PRICE	..... \$9 00
Boxing	..... 50



No. 385, ROUND POST
BALUSTRADE,
5 FEET 7 INCHES LONG, 3 FEET 5
INCHES HIGH AT PEDESTAL;

Has small loose ornament 9 inches high. The ornamenting on each side is different, and is a very handsome Balustrade.

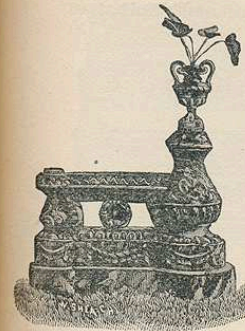
PRICE, \$12 00	|	Extra 6 inch Base, \$2 00
Boxing,	\$0 75	



No. 383, CIRCULAR BALUSTRADE,
COMPOSED OF OPEN WORK.

The Pedestal is detached, and can be used at either end of Balustrade or alone. It has a loose shell ornament.

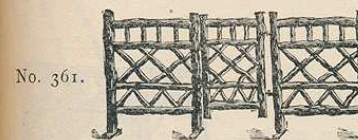
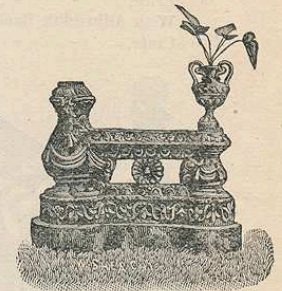
PRICE,	\$12 00
Box,	75



No. 352, CHILD BALUSTRADE,
31 INCHES HIGH AT PEDESTAL.

The ornamentation on one side is entirely different from that of the other side. It is a very handsome accessory.

Balustrade alone,	-	\$8 00
Vase and Artificial Plant,	2 50	
Extra 6 inch Base,	-	2 00
Boxing,	-	50



No. 361.

No. 361, RUSTIC FENCE AND GATE.

Price,	-	-	\$7 00
Crate,	-	-	50

No. 368, STILE AND BARS TO USE WITH 361 FENCE.

Price,	-	-	\$4 00
Crate,	-	-	25

No. 361. FENCE AND GATE, when sold with 368 Stile and Bars.

Price,	-	-	\$11 00
Boxing,	-	-	75

No. 371, PAPIER MACHE, IMITATION WROUGHT IRON FENCE; Posts, 43 inches high. Gate swings both ways.

Price,	-	-	\$8 00
Boxing,	-	-	50

No. 387, IRON FENCE AND GATE; height of Fence, 32 inches; Posts, 43 inches; length 7 feet. The fence is reversible, as shown in photos.

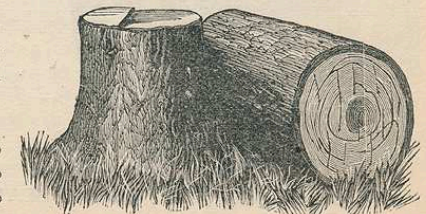
Price,	-	-	\$10 00
Box,	-	-	50

STUMPS, TREES, ETC.

No. 227, DOUBLE STUMP, 45 inches high, has a fork at the top and limbs at sides, giving four places for posing standing figures, and has a Stump 16 in. high attached at base to large stump, making convenient seat.

PRICE,	\$8 00		Crate, \$0 50
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No. 72. STUMP, 16 inches high.....	price, \$3 00
No. 73. LOG OR BLOCK. 2 feet long.....	" 2 50
No. 72. STUMP AND No. 73 LOG.....	" 5 00



STUMPS, TREES, ETC--Continued..

No. 363. BEECH TREE, with adjustable limbs.
 Price, - - - \$6 00
 With Branches in Leaf, 8 00
 Crate, - - - 75

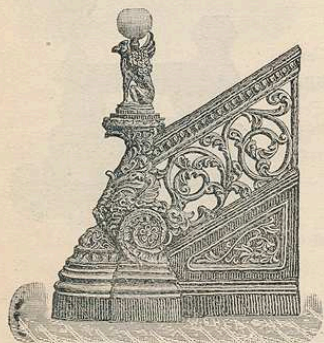
No. 362. TREE, rough bark, adjustable limbs.
 Price, - - - \$6 00
 With Branches in Leaf, 8 00
 Crate, - - - 75

No. 362½. CIRCULAR RUSTIC SEAT, to use with Trees.
 Price, - - - \$5 00
 With Adjustable Back, 7 00
 Crate, - - - 50

No. 395. SMOOTH BARK TREE, with three adjustable limbs,
 Price, - - - \$8 00
 Crate, - - - 75

No. 394. ROUGH BARK TREE, has three adjustable limbs.
 Price, - - - \$9 00
 Crate, - - - 75

No. 393. CIRCULAR SEAT made to use with Trees.
 Price, - - - \$5 00
 393 Seat, with Adjustable Back, 7 00
 Crate - - - 50



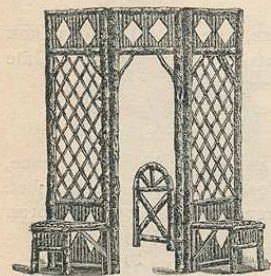
No. 370. STAIRWAY,

FINISHED IN BRONZE.

37 inches high at Pedestal, has four steps, and is a handsome accessory.

Price of Stairway alone, \$8 00
 With elegant gas jet ornament..... 9 50
 Boxing..... 75

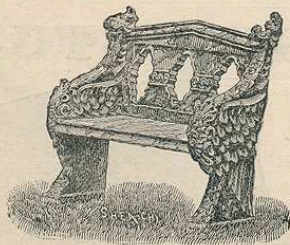
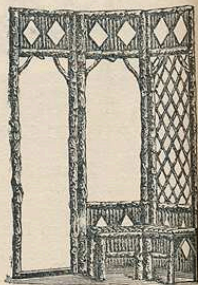
It is suitable for interior or exterior stairway.



No. 366. RUSTIC ARBOR,

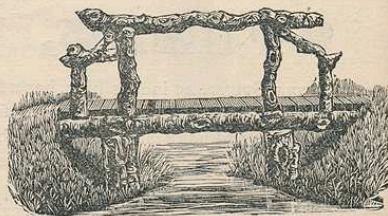
7½ feet high, composed of three main sections, each 2 feet wide, which are adjustable to any position desired. The lattice work can be removed and replaced by the gate or window. Has two Rustic Seats, so constructed as to be used on the inside or outside of Arbor. Is capable of a great variety of changes.

Price, - \$18 00 | Crate, - \$0 75



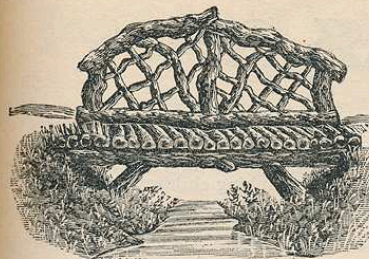
No. 386. CARVED STONE LAWN SEAT.

Price, \$12 00 | Boxing, \$0 75



No. 358. RUSTIC BRIDGE, 6 FEET LONG

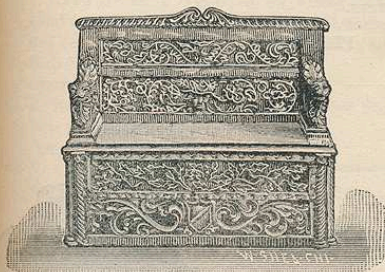
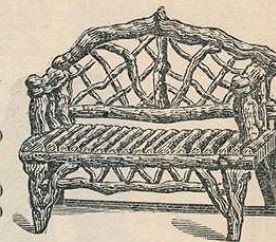
Price, \$7 00 | Crate, \$0 75



No. 360. RUSTIC SEAT.

With adjustable arms and back.

Price, - - - \$7 00
 With Painted Bridge Slip at back, forming a neat Rustic Bridge, - 8 00
 Crate, - - - 50



No. 380. HALL AND PARK SEAT.

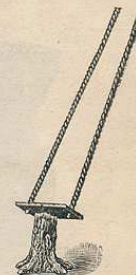
PRICE, - - - \$8 00
 Boxing, - - - 50



SWING.

364. SWING, ADJUSTABLE TO ANY POSE.

PRICE, - \$5 00
 Crate, - - 75



STUMP ROCK.



No. 354. STUMP ROCK, 35 inches high. It is a stump on one side and a rock on opposite. The rock has three seats and the stump has two; a very desirable accessory.

PRICE, \$6 00 | Crate, \$0 35



355. STUMP ROCK, two seats, 17 and 25 inches high. One side represents a double Stump, the opposite a Rock with seats. It has an extension 20 inches long made to fit both seats; when used on the upper jog it makes the Stump and Rock 45 inches high; when used on lower seat it makes it 37 inches high.

It is the finest accessory of the kind ever made, and is capable of a great variety of positions.

PRICE, complete, \$7 00 | Crate, \$0 35

ROCKS.



No. 137. ROCK, 36 INCHES HIGH, HAS TWO SEATS,

Especially adapted for photographing children and babies from three months to fifteen years old. The seat is so constructed that a baby can't fall out of it. It has a hole in the seat, so that a child can be held from behind the Rock if desired. Can be used with grown sitters.

PRICE, - \$7 00

No. 365. ROCK, HAS TWO JOGS FOR SEATS.

And will pose well with subjects of any size. Height, 36 inches.

PRICE, - \$5 00
Crate, - 50



No. 127. ROCK, 34 INCHES HIGH, WITH THREE SEATS.

PRICE, - \$6 00
Crate, - 35



No. 377. COMBINATION ROCK.

Made in three sections, forming rocks 40, 30, 26, 24, 16, 14 and 10 inches high, as the different sections are combined or used alone; making 14 changes. The two sides represent different rock formation. It forms seats in all the changes and is well adapted to subjects of any age, is handy for posing groups.

Price.....\$8 00
Crating.....50



Knapp & Caldwell Papier Mache Photographic Accessories.

LIGHT, DURABLE, ARTISTIC.

- | | |
|--|--|
| No. 1. BARS AND STILE.—Two Posts, three Bars, two Stile Steps, two stones, all adjustable, \$9 00
Crating, - - - - - 1 10 | No. 17. BALUSTRADE VASE, - - - - - \$4 00
With Flowers and Moss, - - - - - 7 00
Crating, - - - - - 75 |
| No. 2. STONE WALL AND PILE OF STONES.—Three Sections, makes Solid or Broken Wall, four Stones and two yards of Ivy included, - 13 00
Crating, - - - - - 1 10 | No. 18. ROMAN VASE, - - - - - 2 00
Crating, - - - - - 50 |
| No. 1 AND 2 COMBINED, - - - - - 21 00
Crating, - - - - - 2 20 | No. 19. BIRD HOUSE, - - - - - 75 |
| No. 3. NEW DURHAM TREE (ROUGH BARK).—Two Limbs and two Branches, adjustable; Branches in Leaf; two small Stones, two yards Ivy and Bird House included, - - - - - 12 00
Crating, - - - - - 1 25 | No. 20. FIVE SMALL STONES.—Assorted sizes, 1 00 |
| No. 4. NEW DURHAM STUMP.—Cut Head; two Foot Rest Stones included, - - - - - 4 00
Crating, - - - - - 90 | No. 21. PLAQUES.—Round or Oval, each, - 1 00
" " " " per pair, 1 75 |
| No. 5. COMBINATION CLUSTER (BIRCH).—Stump, Small Trees and Branches, all adjustable, - 12 00
Crating, - - - - - 1 10 | No. 22. P. M. CHAIR.—Carved Back, Legs turned. For full or three-quarter lengths, - 8 00
Crating, - - - - - 1 00 |
| No. 6. COMBINATION STUMP (BIRCH).—Portion of Tree attached - - - - - 5 50
Crating, - - - - - 1 10 | No. 23. P. M. BALUSTRADE "ROUND POST."—Design different on opposite sides of Rail, - 24 00
Extra Round Post Base 17 inches high, for No. 23, making top rail 4 feet high, - - - - - 8 00
Crating, - - - - - 1 50 |
| No. 7. RUSTIC CIRCULAR SEAT FOR NO. 3, - - - - - 6 00
Crating, - - - - - 1 10 | No. 24. COMBINATION—Antique Cabinet and Table. Light, durable, artistic and useful, - 20 00
Crating, - - - - - 1 25 |
| No. 8. THE SAME AS NO. 7.—With Rustic Back and Piece to fill in Tree Opening, adjustable, 8 00
Crating, - - - - - 1 10 | No. 25. COMBINATION (ALL AROUND)—Stump, Log and Tree. Solid side, beach bark; decayed side, rough bark, - - - - - 12 00
Crating, - - - - - 1 25 |
| No. 9. RUSTIC SETTEE.—Arms and Back adjustable, 10 00
Crating, - - - - - 1 10 | No. 26. PRACTICAL ADJUSTABLE SET SWING—Light and strong; folds up when not in use, - 5 00
Crating, - - - - - 25 |
| No. 10. CIRCULAR RUSTIC CHAIR.—Three Cornered, Back adjustable, - - - - - 7 00
Crating, - - - - - 1 10 | No. 27. BEACH TREE.—Adjustable limbs and branches, 12 00
Crating, - - - - - 1 25 |
| No. 11. SQUARE RUSTIC CHAIR, - - - - - 10 00
Crating, - - - - - 1 25 | No. 28. POMPELAN VASE, - - - - - 2 50 |
| No. 12. RUSTIC FENCE.—Three Sections, Gate swings from either high or low Posts, two yards of Ivy and two small Stones included, 7 00
Crating, - - - - - 1 10 | No. 29. PITCHER " - - - - - 1 50 |
| No. 13. FOREST BRIDGE AND PILE OF LOGS.—Abutments formed of Logs and Stones. Tree Split in Half for Deck, Uprights and Hand-rail cut from Saplings, Hand-rail also forms Tree, Rail Adjustable Back or front, two Grass Mats, Water Floor Cloth and adjustable Branch in Leaf included, can be set up or taken down in thirty seconds, occupies small space to stow away, - - - - - 18 00
Crating, - - - - - 1 25 | No. 30. MARBLED " - - - - - 1 50 |
| No. 14. CUPID ROCK.—Can be used for sitting or standing, two Small Stones included, - 9 00
Crating, - - - - - 1 25 | No. 31. PLAQUE—Small, - - - - - 75 |
| No. 15. COMBINATION ROCK.—Forms many Out-lines, Practical, Small Stones included, - 7 00
Crating, - - - - - 1 10 | No. 32. " "P" - - - - - 1 00 |
| No. 16. P. M. BALUSTRADE, "ELABORATE."—With Extra Adjustable Cap and Base, two yards of Ivy included, - - - - - 18 00
Crating, - - - - - 1 50 | No. 33. " "H" } each, 1 25 per pair, 2 25
No. 34. " "P" }
No. 35. " "M" - - - - - 2 00 |
| | No. 36. SAME AS NO. 5.—With adjustable log to stump, - - - - - 10 00
Log separate, - - - - - 6 00
Crating, - - - - - 1 25 |
| | No. 37. ADJUSTABLE COLUMN—Square base, shaft or base can be used separate as pedestals; height of base, 2 feet 10 inches; shaft adjusts in height from 3 feet 7 inches to 5 feet 2 ins. Column complete from 6 feet 6 inches to 8 feet high. Pole and rings included, - - - - - 20 00
Crating, - - - - - 1 25 |
| | No. 38. SAME AS NO. 37.—With round base, - 20 00
Crating, - - - - - 1 25 |
| | No. 39. SHAFT OF COLUMN—Can be used with any ordinary balustrade, - - - - - 12 00
Crating, - - - - - 1 10 |
| | No. 40. STEP ROCK—For adult or child, - 10 00
Crating, - - - - - 1 25 |
| | No. 41. COMBINATION—Bridge, stone steps, stile, rock, board fence with gate, water floor-cloth included - - - - - 20 00
Crating, - - - - - 1 50 |

KNAPP & CALDWELL PAPIER MACHE ACCESSORIES--Continued.

No. 42. CUPID WAINSCOT—21½ in. high, 6 feet long, \$12 00 Crating, - - - - - 1 10	No. 43. TILE AND SCROLL WAINSCOT—30½ inches high, 6 feet long, - - - - - 13 00 Crating, - - - - - 1 25	No. 44. COMBINATION—Baronial interior, forming settee or background. Comprising wainscots No. 42 and 43, column No. 39, small square base pole and rings included, - - - - - 36 00 Crating, - - - - - 1 50	No. 45. STONE SEAT—Same as No. 49 without back. Can be used with balustrade, wall, etc. - - - 8 00 Crating, - - - - - 1 10	No. 46. COMBINATION—Pompeian wall with adjust- able gate. Fountain or well, stone steps, stone seat, forming solid or open wall. Wall adjusts in height from 3 feet 4 inches to 6 feet 3 ins.; from 3 feet to 8 feet 6 inches wide. Making a complete background; sections can be used separate, forming plain or decorated walls. Lower section No. 1 forms a wall 3 feet 4 in. high, 6 feet wide. Upper section No. 2 forms a wall 3 feet 8 inches high, 6 feet wide. Sec- tions 3 and 4 form walls from 3 feet 4 inches to 6 feet 3 inches high and 3 feet wide; all mounted on adjustable bases with castors. All sections adjust to bases. Gate adjusts either in height or position to any section of wall. Prints showing eight of the numerous positions sent with each complete wall.—N.B. —Walls painted light left, unless ordered otherwise, - - - - - 38 00 Crating, - - - - - 1 50	No. 46. SOLD IN SECTIONS—Sections 1, 2, 3 or 4, each, 16 00 Fountain and well, extra, - - - - - 6 00 Gate, adjustable, - - - - - 5 00 Steps and seat, - - - - - 2 00 Crating, - - - - - 1 25	No. 47. THE K. & C. "HANDY" BALUSTRADE— Forming balustrade right or left; Balcony, Pedestal with adjustable cap; Stoop with post and rail. Rail can be adjusted from a hori- zontal to an inclined position. Stone step or slide. For adult or child, - - - - - 13 50 Crating, - - - - - 1 25	No. 48. BALUSTRADE VASE—Medium size, - - - 3 00 Crating, - - - - - 25	No. 49. STONE GARDEN SEAT—With adjustable back and legs. Can be used with any exterior ground, - - - - - 11 00 Crating, - - - - - 1 10	No. 50. THE K. & C. PAPIER MACHE COMBINATION —Cabinet, side board, table, mantle and fire place, with dogs and logs. A useful accessory to the gallery, or ornamental to the reception room. A cabinet as shown in print "B" if produced in carved wood, sells for \$40 00. The complete combination mounted on castors, 45 00 Crating, - - - - - 1 50
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LOWER SECTION OF No. 50 SOLD SEPARATE AS SHOWN IN PRINTS—A. & B. - - - - - \$25 00 B. & C. - - - - - 30 00 A. B. & C. - - - - - 35 00 Crating, each, - - - - - 1 50	No. 51. THD K. & C. NEW PAPIER MACHE CHAIR— Finest yet produced. Front Leg well pro- tected with wood, - - - - - 12 00 Crating, - - - - - 1 00	No. 52. THE K. & C. FANCY STAND WITH FRINGE, 9 00 Crating, - - - - - 1 00	BRANCHES IN LEAF—Per pair, - - - - - 75 Crating, - - - - - 20	No. 53. K. & C. CHAIR—Back imitation uphol- stery, - - - - - 12 00 With extra back of No. 51, - - - - - 16 00 Crating, - - - - - 1 00	No. 54. K. & C. CHAIR—Imitation upholstery, 12 00 With extra back of No. 53 or 56, 16 00 Crating, 1 10	No. 55. MOZART CHAIR, 12 00 Crating, 1 10	No. 56. MOZART CHAIR, 12 00 Crating, 1 25	No. 57. K. & C. DIVAN, 16 00 Crating, 1 25	No. 58. K. & C. DIVAN, 16 00 Crating, 1 25 With extra back of No. 57, 20 00 Back adjustable. Can be used in either side of Divan.	No. 59. THE K. AND C. NEW COMBINATION—Ad- justable tree and stumps, with adjustable limbs, branches and bird house, one limb ad- justs in different positions from sides of tree and either limb adjusts in front. This com- bination forms tree, stumps, rocks, board fence with gate, stone fence, stile and steps. All practical. A whole rustie outfit in itself. Complete, 21 00 Crating, 1 25	No. 59. SOLD IN SECTIONS—Adjustable tree and stumps, with limbs, branches and bird house, 14 00 Stumps alone, 6 00 Stumps, rocks, board fence with gate, stone fence, stile and steps, 15 00 Crating; each, 1 25	No. 60. GIPSY POT AND TRIPOD—Adjustable and practical, 7 00 With flowers, 10 00 Crating, 75
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Sample Photographs of any of the above goods sent on application to such parties as will agree to return them promptly.

OSBORNE'S NEW ACCESSORIES.

Possessing the highest artistic merit, and made very substantial.

We have sold more of these goods in the past year than any other make. Samples Photos on application.

No 62. Bridge, Adjustable Rail, price.....\$10 00	No. 25. Gate, four changes, the finest gates ever made, country gate, city gate, iron fence and stone wall, all complete for..... 20 00	No. 46. Arbor. This represents a beautiful arbor covered with grape vines and grapes It is simply superb, price..... 23 00
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CHILD WALL AND CHILD FENCE.



These are small grounds on frames and are to be set against the head rest when used; they have an indentation for the child's head and cannot be surpassed for such work as is represented in the cuts here shown.

Price Each,.....\$ 8 50

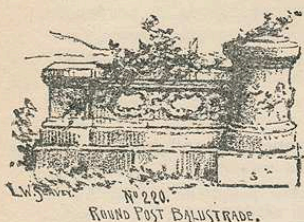
Price per Pair,..... 16 00

Messrs. Tresslar & Gifford, of our city, are using all of the above accessories, and say they are the most satisfactory goods they have ever had in their gallery.

L.W. SEAVEY'S STANDARD NEW YORK ACCESSORIES

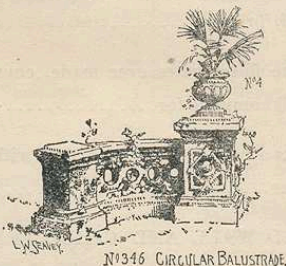
Being Agents for these celebrated goods, we take great pleasure in presenting a few of his many productions. Sample prints furnished on application. CRATING EXTRA.

Round Post Balustrade.



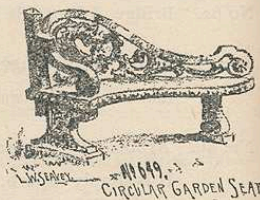
Has large round post at one end, and small square one at the other \$20.00

Circular Balustrade.



Very elaborate; is in the best taste, and suited to every variety of photographic use \$30 00

Circular Garden Seat.



Has arm at one end; the back is an open scroll, with a dragon and shield introduced; a light and graceful accessory for general purposes. Price, \$15 75.

No. 787—DOUBLE TRUNK ELM TREE WITH THREE CHANGES.



No. 787. JOINTED DOUBLE TRUNK ELM.

Extra vines, woodbine large and full leaves, per yard, 50c. Extra elm branch, several twigs united, fully leaved, \$1 50. Tint, Med.

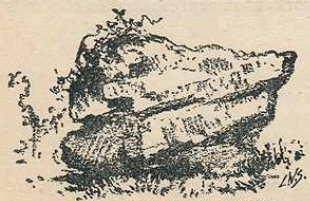


No 787. 2^o CHANGE.

By an ingenious device the smaller trunk can be set at angles ranging through forty-five degrees, or can be removed and a stump piece substituted. It has finely modelled bark and knots, and is the most useful tree yet offered to the fraternity. Many sitting, standing, reclining and leaning poses are possible with this new accessory. \$15 00



No 787 3^o CHANGE.



RARITAN ROCK. No 695.

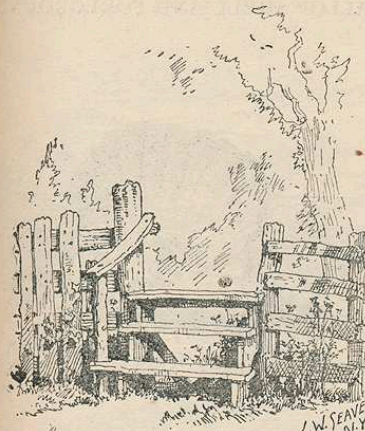
No. 693.—RARITAN ROCK.

With Shelf at Top, utilized as Seat. Height, 51 inches; length, 48 inches.

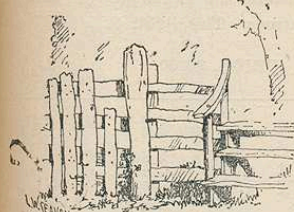
PRICE, \$6 00

SEAVEY'S ACCESSORIES--Continued.

THE EDMONDSON FOLDING STILE.



No 790. THE EDMONDSON FOLDING STILE.



No 790. 3^o CHANGE.

Is made of wood with a papier mache post. The two sections of fence are fastened with "slip pin" hinges to steps. Can be set at desired angles; folded back behind steps when not in use, or instantly removed when forming other combinations. A curved detachable hand rail on sitter's right aids greatly in posing. For adults and children; packs flat in crate. Tint, Med.

PRICE, \$10 50.

No. 550—P. M. STONE WALL.

Three sections, four small rocks and two yards of woodbine. Many changes; very complete.

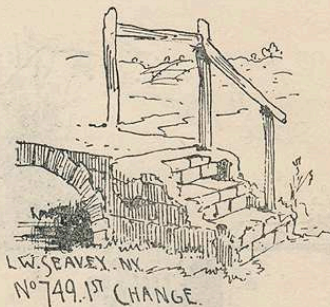
PRICE, \$13 00

VASES.

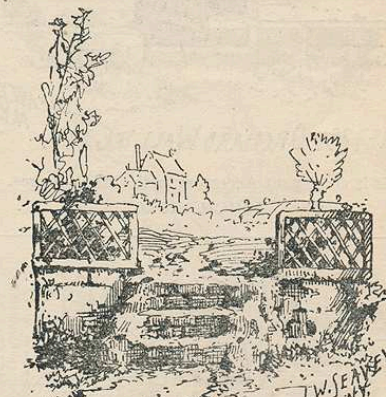


No. 1, \$1 75 | No. 2, \$3 00 | No. 4, 3 50 | No. 6, \$2 50

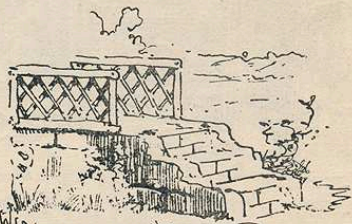
COMBINATION No. 749.



L.W. SEAVEY, N.Y. No 749. 1st CHANGE.



No 749. THE "KATE GREENAWAY" STILE, BRIDGE & WALL.



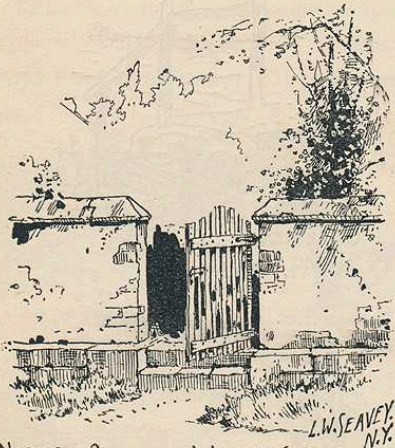
L.W. SEAVEY, N.Y. No 749. 4th CHANGE.

This elegant Combination explains itself. Five changes can be made, three shown in the illustration above. It is extremely light and can be handled with very little trouble.

PRICE, \$10 00.

SEAVEY'S ACCESSORIES--Continued.

No. 725—ORCHARD WALL AND GATE.



No. 725. ORCHARD WALL & GATE.

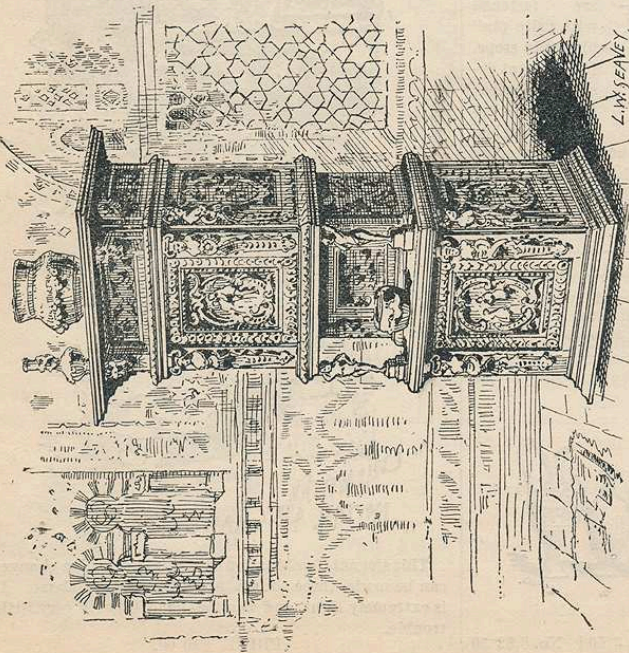
This is an elegant Accessory with three changes.
PRICE, \$16 00.

SCALLOP SHELL AND FOREGROUND.



For babies only; the two halves are hinged together, thus giving opportunity to modify the upright wall. Is painted in oil colors, and is the prettiest shell yet presented to our patrons. Tint, light.

PRICE, \$9 00.



No. 795. PAPIER MACHÉ ANTIQUE CABINET.

No. 795.—PAPIER MACHÉ ANTIQUE CABINET.—Price, \$40 00
Three parts—two staves, practical door, very elaborately carved, on castors. Is a close imitation of a two-hundred-year-old Flemish Cabinet, worth \$150. An antique richly carved cabinet is an indispensable accessory in every first-class gallery, and this will give full satisfaction.

No. 796.—Price, \$35 00.

Our No. 796 is the same as No. 795, except that two sides instead of three are finished, has three staves, and the whole is triangular on its ground plan. This arrangement does not interfere with the utility of the cabinet. It can be used either at right or left of either or both high.

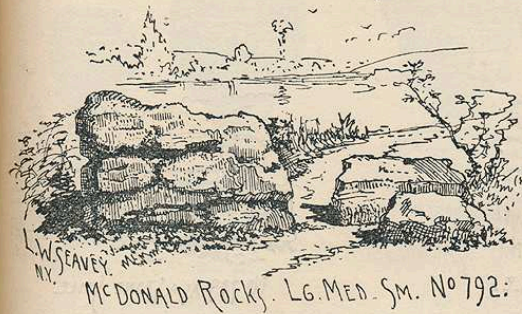
SEAVEY'S ACCESSORIES.--Continued.

No. 792. McDONALD ROCKS.

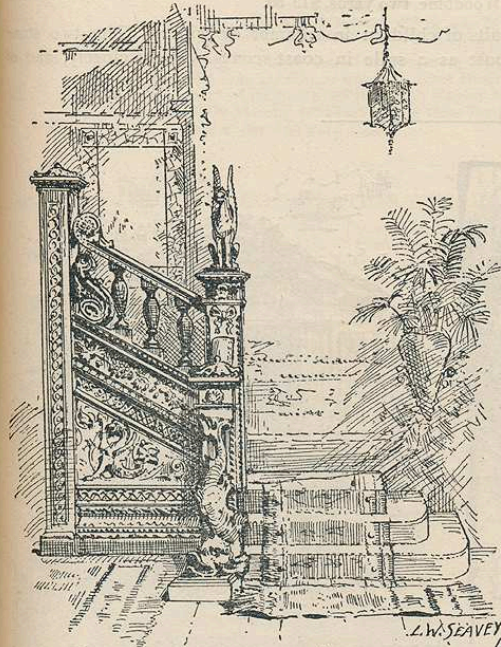
MEDIUM AND SMALL.

Price.....\$15 00

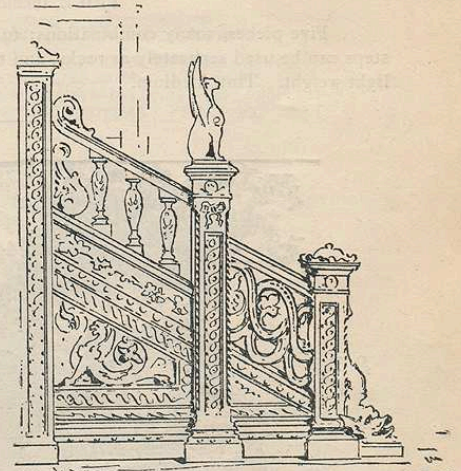
Closely copied from nature. Large rock has different formation on back. For every-day use. Tint, medium.



McDONALD ROCKS. LG. MED. SM. No 792.



RENAISSANCE STAIRWAY.



RENAISSANCE STAIRWAY.

No. 861.

THE RENAISSANCE STAIRWAY.

Price.....\$50 00

Is made in adjustable parts, of the finest papier mache. Carefully finished in oil colors in imitation of polished cherry. The stairs are carpeted, and the newel caps and bronze-winged dragon are interchangeable. The weight is moderate and the various changes of setting are easily and quickly made.

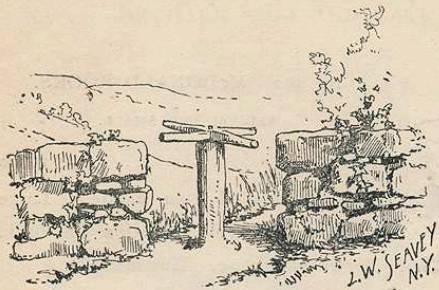
This accessory will be found useful for full and three-quarter lengths and groups—adults and children—and for poses in evening and walking costume.

The hand-rails and newel posts serve admirably for the hanging of cloaks, shawls or other draperies to be photographed with the sitter.

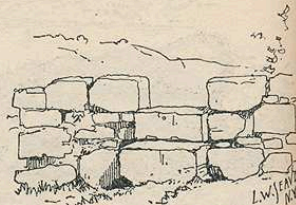
Lamps and statuettes may be placed upon the newel posts, or a hall lamp suspended overhead.

This accessory is the finest ever produced at this establishment. The sum of three hundred and seventy-five dollars was paid for the artistic modeling upon it. Our aim was to produce an accessory which would be rich in detail, artistic, useful and pleasing to the most refined taste. The result has been eminently successful.

Seavey's Accessories--Continued.



No 789. TURNSTILE. WALL & STONE STILE.



No 789 AS A STONE STILE.

No. 789.—TURNSTILE, WALL AND STONE STILE COMBINED.

PRICE, Including Woodbine, two yards, \$13 50.

Five pieces, many combinations; for adults or children in summer or winter. The two stone steps can be used separately as rocks, and the post as a spile in coast scenes. Packs closely, and of light weight. Tint, medium.

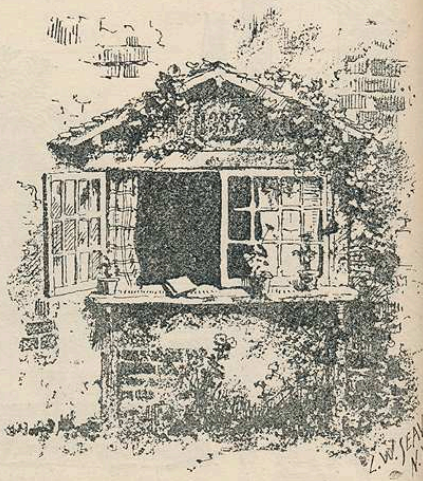


No 784 THE ROCKY SEAT COMBINATION

No. 784.—ROCKY SEAT COMBINATION.

PRICE, \$16 00.

Has a pivoted rock resting on a table-shaped lower one, in the center of which is a moveable piece that can be drawn out to form a rest for the feet of children. See Cut. Two small detached rocks serve as rests for the arms or hands. Mounted on castors.



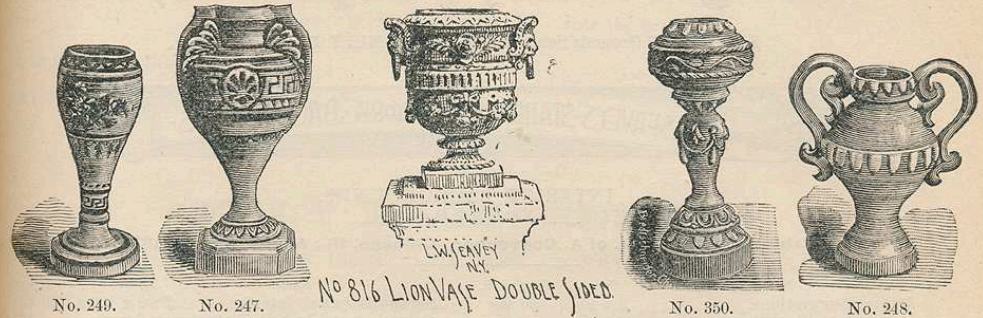
No 793. "KATE GREENAWAY" COTTAGE WINDOW.

No. 793.—KATE GREENAWAY COTTAGE WINDOW.

PRICE, with curtain and 5 yards flowered vines, \$16 00.

For children only; made of wood and papier-mache, artistically painted in natural colors, very pleasing to sitters; window sashes open in or out, shelf detachable. Can be used fronting, or diagonal to camera. Pretty poses of children are, viz.: one to three or four in the window; one or more children in window and one outside, etc. Tint, light.

OTHER VASES, ETC.



No. 248, Vase, 12 inches high, - - - - -	\$1 02	No. 247, Vase, hand painted, 43 inches high, - -	\$1 75
No. 249, Boquet Holder, hand painted, 13 in. high, 1 25		No. 816, Vase, Seavey Lion Vase, Double sided, bronze and stone, 24 in. high, each, - - - -	7 50
No. 350, Lawn Vase, 32 inches high, - - - - -	3 00		

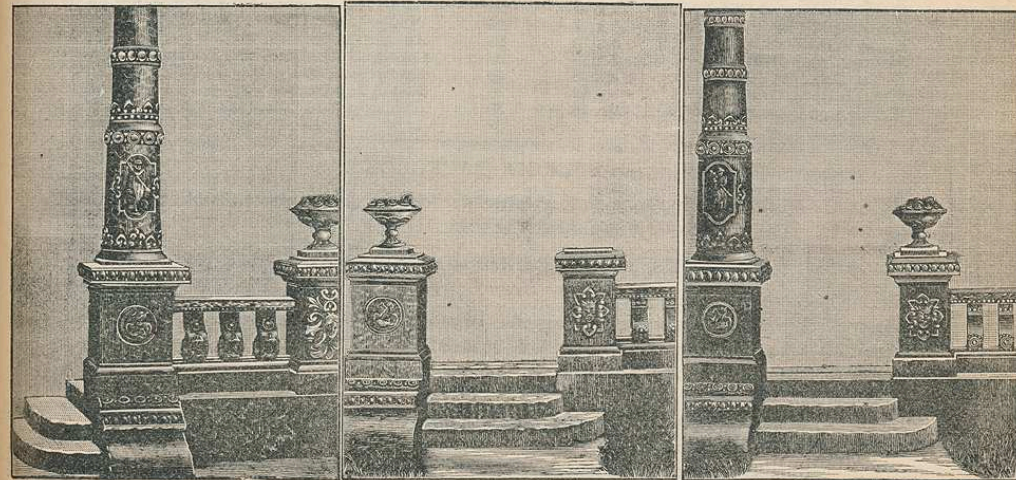
ARTIFICIAL PLANTS.

No. 299. It is used in hiding rest or to use as an accessory with any outdoor picture. I will furnish Cala Lily, Common Lily, Scotch Thistle, Geranium, Rose Bush or Arbor Vitæ Shrub. Price each, - \$1 50
I have made quite a variety of large-leaved plants in Papier Mache and painted in photographic colors. They are substantially made and will last a long time for photographic purposes. Price, each, - 1 50
Ivy Vine, per yard, 25 cents; per five yard roll, - - 1 00

GEHRIG'S PEDESTAL COMBINATION.—THE BEST ACCESSORY YET INTRODUCED FOR INTERIOR OR EXTERIOR USE.

One Dozen Elegant Cabinet Photo-Positions by Gehrig, Furnished with Each Accessory.

This elegant accessory was made after suggestion of the eminent Chicago photographer whose name it bears. Mr. Gehrig says it is one of the best accessories he ever used. Made of light wood and papier mache. Can be changed in a moment's time from one style to another; can be used for interior or out-door scenes with equal appropriateness. The height of column is eight feet.



The above cuts represent only three of the changes this elegant accessory is susceptible of. There is "no end" to the changes that can be made.

PRICE, complete, \$27 00

Backgrounds, Draperies, &c.

Samples of all Grounds Sent for Selection but **MUST BE RETURNED.**



INTERIOR BACKGROUNDS.

Exhibited at the P. A. of A. Convention, Chicago, Ill., August 9 to 12, 1887.

Name.	Size.	Price per ft.	Name.	Size.	Price per ft.
Denver Suggestions,	9 x 10	\$0 20	Sarony Baronial Interior,	9 x 10	\$0 40
Leloir Lace Vignette,	8 x 7	25	Columbus and Isabella Tapestry,	8 x 8	40
Louisville Curtain,	8 x 6	25	Flemish Interior,	9 x 10	40
Mora Interior,	9 x 10	35	Albany Drawing-Room,	9 x 10	40
Kent Interior,	9 x 10	30	Lady Teazle Drawing-Room,	9 x 10	30
Home Series,	9 x 10	30	In the Art Gallery,	9 x 10	35
The Clinton,	9 x 7	30	Marbled Effect,	5 x 5	20
Brand Interior,	8 x 10	30	Head and Bust Portrait,	5 x 5	20
Blossom Boudoir,	8 x 7	30	Van Dyke Portrait,	5 x 5	15
Fredericks Group Interior,	9 x 10	35	Clouded Vignette,	5 x 5	20
Old English Window,	8 x 8	35	Reubens Portrait,	5 x 5	15
Louisville Parlor,	9 x 10	35	Head and Bust—Landscape,	5 x 5	20
Combination Interior,	8 x 8	35	Picture Card Series (2) each,	5 x 7	12 00

EXTERIOR BACKGROUNDS.

Name.	Size.	Price, per ft.	Name.	Size.	Price, per ft.
Toboggan Background,	9 x 10	\$0 20	Lac du Chateau,	9 x 10	\$0 30
Cloud and Hill-top,	8 x 6	25	Adirondack Wood,	9 x 10	30
South Shore Lake Erie,	9 x 10	25	Thornton Cliff,	9 x 10	30
After the Storm,	9 x 10	25	Under the Trees,	9 x 10	30
Forest and Stream,	9 x 10	25	Mora Chateau Door,	8 x 8	30
Across the Fields,	8 x 8	25	Kate Greenway, Exterior,	7 x 5	30
The Misty Lake,	8 x 8	25	Winter—Hill, Brook and River,	9 x 10	30
Every Day Use,	9 x 10	25	The River Road,	9 x 10	30
From the Mountain Top,	9 x 10	25	Edgewood Winter,	9 x 10	30
The Ruined Chateau,	8 x 7	25	Winter Road,	9 x 10	30
Rocks in the Valley,	9 x 10	25	Among the Grasses,	9 x 8	30
Sarony Watch Hill,	9 x 10	30	Conservatory of the N. Y. Academy,	9 x 8	35
Forest Path,	8 x 8	30	Esson Sea Shore,	5 x 5	25
The Old Dock,	9 x 10	30	Sketch Landscape,	9 x 10	18
Washington Conservatory,	9 x 10	30	Landscape and Column,	9 x 10	25

SPURGIN BACKGROUNDS.

Prices ranging from 20 to 35 cents per foot. Samples sent on application.

BRYANT'S BACKGROUNDS,—MOST POPULAR GROUNDS MADE.

- Exterior Backgrounds, 15c. per foot.
- Interior Backgrounds, containing 64 square feet or more, 15c. per square foot.
- Interior Backgrounds, containing less than 64 square feet, 20c. per square foot.
- Interior or Exterior Grounds Painted in Oil, 20c. per square foot.
- Side Slips, 25c. per square foot.
- Any special designs desired, or furnished by photographers, painted without extra charge at list price.
- Clouded Backgrounds, 15c. per square foot.
- Plain Backgrounds, 8c. per square foot. | Box and Roller, 50c.
- Samples showing tints of plain grounds furnished on application.
- Photograph samples of Scenic Backgrounds furnished on application but must be returned in five days.

R. A. GREEN'S BACKGROUNDS.

These are good cheap grounds. Note the price.

8x10 Grounds, Interior.....	\$ 8 00
8x10 Grounds, Exterior.....	6 50

Send for Samples.

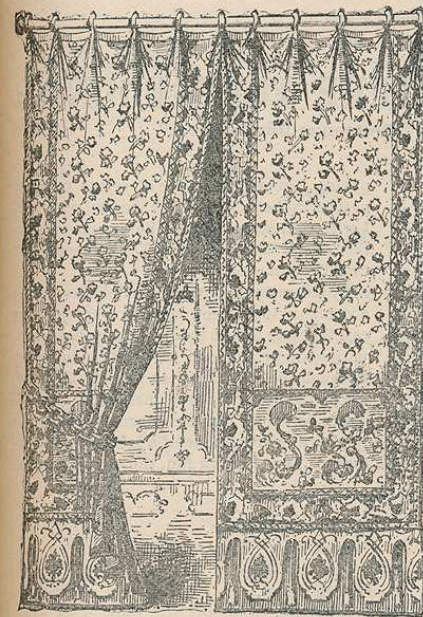
FELT BACKGROUNDS

FOR LIGHT AND DARK VIGNETTES.

Three Colors: Drab, Light Blue and Black. This material comes 6 feet in width.

Price per running yard, any color.....\$1 50

TAPESTRY.



These are the most tasty and useful articles for full length, group and baby pictures yet introduced. We have a beautiful line of all grades. We will send these on selection if required.

- No. 125. Curtains, 4½x9 feet, raw silk, reversible each.....\$ 5.00
- No. 172. Turkish Chenille, very soft and beautiful 4x10½, each..... 6.50
- No. 403. Turkish Chenille, heavier and softer finest chenille made, 4½x10½ feet, each.... 7.50
- No. 500. Heavy Real Silk Brocade Curtain, with gold thread, the most beautiful piece of drapery made, size 4½ x 10½ feet, reversible, each..... 10.00
- Raw Silk Table Covers, each..... 3.00
- Turkish Chenille Table Covers, 4½x5 ft., each 4.75

GENUINE SMYRNA RUGS.

VERY HEAVY, WILL LAST FOREVER. REVERSIBLE.

4x7 feet, each.....	\$10 00	Ingrain Rugs, 9x9 feet, each.....	\$ 9 75
3x6 " "	7 00	Felt Rugs, 7x9 feet, each.....	6 50

READY MIXED PAINTS.—FOR TOUCHING UP DEFACED GROUNDS OR ACCESSORIES.

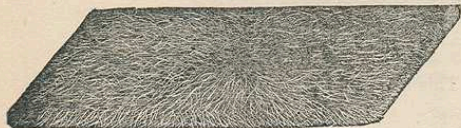
Each package contains full instructions for use,.....PRICE, per set, \$1 00

PASTEL CRAYONS FOR REPAIRING BACKGROUNDS.

Made in twelve shades, and put up in Boxes. For removing stains or other injuries, PRICE, per box, 50c.

SEVEY'S PASTEL CRAYONS PRICE, per box, \$1 25

WAXED LINEN MATS.—REDUCED.



Every Photographer has long felt the want of a first-class clean Mat to represent grass.

This Mat is made of Burlap Back, with a heavy covering of Waxed Linen Thread, Old Gold color. They are just the thing you have wanted for years. Order a sample and you will discard the old-fashioned mats "too quick."

PRICES.

2x3, each, \$0 75 | 2x4, each, \$1 00 | 2x5, each, \$1 25 | 2x6, each, each, \$1 50
 BORDER MATS, 1x5, each, \$0 75
 EAST INDIA GRASS MATS, straw and green color, large size, 36 x 72, each, \$1 00
 DOOR MATS, (Best) each, 75 cents.

COOLIDGE'S PHOTO-CARICATURE FOREGROUNDS.

For Producing "Photo-Caricatures," or "Grotesque Diminutives."

PROCESS PATENTED.

I wish to again urge you to purchase my Foregrounds, and produce Photo-Caricatures at your gallery. Give yours customers a chance to laugh, or rather let them pay for it, which they will gladly do. My prices are very low, for I wish the Comics to be taken by every photographer in America.

In towns containing less than 20,000 people, I will forward the Foregrounds marked 6, 7, 8 and 9, securely bound on paper rollers, by mail or express, for only SIX DOLLARS. In cities containing a larger population than 20,000, the same Foregrounds for only TEN DOLLARS. Where parties wish it, by their



paying DOUBLE PRICE, I will sell to no other parties in their city. After the first purchase, I will send other special Foregrounds, whether on my list or suggested by customers, for ONE DOLLAR each.

By using my foregrounds and following the accompanying directions, any photographer can take any person in the various characters, with scarcely any more trouble than in taking common pictures. For an advertising card, Photo-Caricatures stand unrivalled. For advance cards for traveling men they take like wild fire. For the sake of a joke, they are immense. For creating fun, they have no equal.

The following selections are from my latest, all good:

- | | |
|-------------------------------|-------------------------------------|
| 1—Riding a Donkey. | 37—My Morning Toddy. |
| 2—Man Riding a Flying Goose. | 44—Correct Style (High Collar). |
| 6—Have a Ride? (Donkey Cart.) | 45—A Jumping Jack. |
| 7—The Fisherman. | 52—Jack in a Box. |
| 8—Hunting Rabbits. | 54—A Bicyclist. |
| 9—Goodbye, Jane. | 55—I die! (Man Committing Suicide.) |
| 16—Girl Shopping. | 56—Riding Jumbo. |
| 17—Mason Riding the Goat. | 62—"Tom, Tom, the Piper's Son." |
| 18—A Father. | 63—Fresh from Cork. |
| 19—Roller Skater. | 67—"Will You Love Me When I'm Old?" |
| 20—Man Drinking Lager. | 69—The Drummer. |
| 23—A Fashionable Swell. | 87—The Tourist. |
| 25—A Home Run (Base Ball). | 88—Mamma's Pet. |
| 27—At Coney Island. | |

Bromide Paper and Apparatus.

Bromide Paper has now been on the market for several seasons, and we deem it quite unnecessary to go into a lengthy discussion as to its composition and purpose. Formulae for its use will be found in each package, and also in another portion of this Catalogue, among other useful items and formulae. We carry three brands.



EASTMAN'S PERMANENT STANDARD BROMIDE PAPER.

PATENTED MAY 5, 1885.

Made in three grades, A. B. and C.

PRICES AS FOLLOWS:

PRICES, A, B, OR C PAPER.		20 inches wide, per Roll of 10 Yards, . . . \$11 20	
In Rolls or on Spools for Eastman's Enlarging Easels.		22 " " " " 12 40	
14 inches wide, per Roll of 10 Yards, . . . \$ 7 90		24 " " " " 13 50	
16 " " " " 9 00		25 " " " " 14 00	
18 " " " " 10 00		Not less than 10 yards on a Spool.	
CUT SHEETS.			
4 x 5 per dozen, . . . \$0 40	8 x 10 per dozen, . . . \$1 50	16 x 20 per dozen, . . . \$6 00	
5 x 7 " " 65	10 x 12 " " 2 25	18 x 22 " " 7 50	
5 x 8 " " 75	11 x 14 " " 3 00	20 x 24 " " 9 00	
6½ x 8½ " " 1 10	14 x 17 " " 4 50	25 x 30 " " 14 00	

ANTHONY'S PATENT RELIABLE BROMIDE PAPER.

For Contact Printing and Enlargements.

The grades are H. G., heavy grained; H. S., heavy smooth; L. S., light smooth, all at one price.



Size, 4 x 5, per dozen, \$0 32	Size, 11 x 14, per dozen, \$2 40	
" 4½ x 6½, " 44	" 14 x 17, " 3 60	
" 5 x 7, " 52	" 16 x 20, " 4 80	
" 5 x 8, " 60	" 18 x 22, " 6 00	
" 6½ x 8½, " 88	" 20 x 24, " 7 20	
" 8 x 10, " 1 20	" 25 x 30, " 11 20	
" 10 x 12, " 1 80	Other sizes in proportion.	

Less than one dozen of sizes above 8 x 10 only will be packed at an extra charge of 25 cents.

ROLLS OF NOT LESS THAN TEN YARDS.

14 inches wide, per yard, \$0 64	20 inches wide, per yard, \$0 90
16 " " " " 72	22 " " " " 1 09
18 " " " " 80	25 " " " " 1 12

This paper has many admirers—is very quick and therefore preferred for intense negatives.

EUREKA BROMIDE PAPER.

THE LATEST, NOTE THE PRICES. AS GOOD AS THE BEST.

No. 1, 2 or 3.—CUT SHEETS.

SIZE.	PRICE.	SIZE.	PRICE.
4 x 5	\$0 25	11x14	\$1 80
4 1/4 x 6 1/2	33	14x17	2 70
5 x 7	40	16x20	3 60
5 x 8	45	18x22	4 50
6 1/2 x 8 1/2	95	20x24	5 50
8 x 10	90	25x30	8 50
10 x 12	1 35		

Made in three grades: No. 1, Thin Smooth. No. 2, Heavy Smooth. No. 3, Heavy Rough.

OTHER SIZES IN 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.

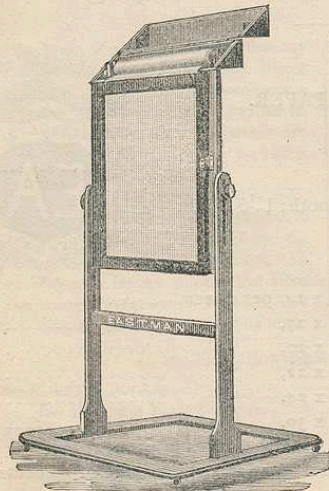
14 inches wide	\$0 47 per yard.	20 inches wide	\$0 67 per yard.
16 " "	54 "	22 " "	74 "
18 " "	60 "	25 " "	84 "

This brand is just out. It is claimed by many to be the same quality as the Eastman, which in itself is sufficient recommendation.

EASTMAN'S ENLARGING EASEL,

WITH SPOOL HOLDER ATTACHED.

As Used in Eastman's Enlarging Department.

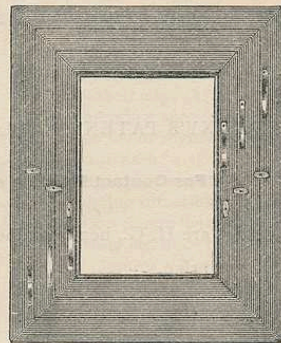


Price Complete.

No. 1. For spools up to and including 11 inches for 11x14 pictures	\$ 7 50
No. 2. For spools up to and including 16 inches, for 16x20 pictures	10 00
No. 3. For spools up to and including 22 inches, for 22x27 pictures	12 50
No. 4. For spools up to and including 25 inches, for 25x30 pictures	15 00

Kits for above come extra.

EASTMAN'S KITS FOR ENLARGING EASELS.

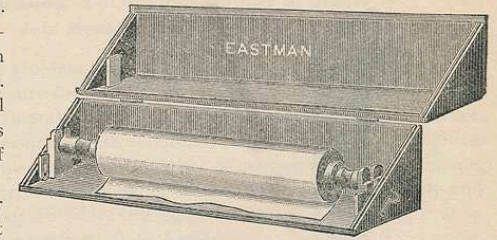


Outside, 25x30, inside, 22x27	\$1 50
" 22x27, " 20x24	1 40
" 20x24, " 18x22	1 30
" 18x22, " 16x20	1 20
" 16x20, " 14x17	1 00
" 14x17, " 11x13	80
" 11x14, " 10x12	68
" 10x12, " 8x10	60

These Kits are made to nest one into the other, and they are provided with buttons for fastening in place; also, spring clips for holding Eastman's Film Carriers for cut sheets.

EASTMAN'S EXTRA SPOOL HOLDERS.

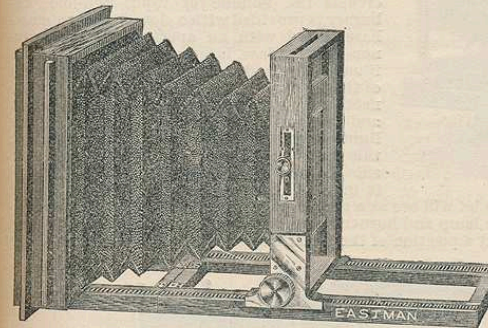
One Spool Holder accompanies each Easel. Where it is desired to make several sizes of enlargements, extra holders may be employed for each width of paper, or for several widths, as desired. These holders are all made interchangeable. Small sizes will fit on the large easels. Each holder is provided with a brake that bears on the back of the paper and prevents unwinding.



The spools of permanent bromide paper for these holders are put up for market in light-tight strawboard boxes.

No. 1 will take spools for paper up to 11 in. wide,	\$2 00	No. 3 will take spools for paper up to 22 in. wide,	\$3 00
No. 2 " " " " 16 " " " "	2 50	No. 4 " " " " 25 " " " "	4 00

EASTMAN'S DAYLIGHT ENLARGING CAMERA.



Especially designed for use with the enlarging easels and bromide paper. In use in the Eastman factory.

With one of these Cameras and one of the enlarging easels, any one may make enlargements from small negatives upon the permanent bromide paper that will compare favorably with prints made from large direct negatives. Any lens, large or small, may be used, the size of the enlargement depending only upon the relative distances between the negative and the easel and the focal length of the lens.

8 x 10 Camera, with Kits for 8 x 10 negatives and under, price, complete,	\$25 00
5 x 8 " " " " 5 x 8 " " " "	20 00

These Cameras are provided with fine quality cut rack and pinions, adjusted with special reference to smooth working and rigidity.

WINDOW BOX FOR ENLARGING.

This Box is the back end and bellows of the Eastman Enlarging Camera, and it is intended for use in connection with another camera.

Window Box, complete, with ground glass bellows and adjustable carrier for negatives 3 1/4 x 4 to 8x10, price, \$12 50.

EASTMAN'S ENLARGING APPARATUS,—ENLARGING OUTFITS.

For Making Enlargements on Eastman's Permanent Bromide Paper.

In ordering Enlarging Outfits, specify how many sizes of enlargements it is desired to make, and size of largest negative from which they are to be made, and order the apparatus accordingly; for instance, say an operator wishes to make 25x30, 20x24, 18x22, 16x20, 14x17 enlargements from 8x10 or smaller negatives, a complete Outfit would be called No. 4.

1 8x10 Eastman's Daylight Enlarging Camera,	\$25 00	1 Kit 18x22 (inside)	\$1 30
with Kits up to 8x10		1 Kit 16x20 " "	1 20
1 No. 4 Eastman's Enlarging Easel (25x30)	15 00	1 Kit 14x17 " "	1 00
1 Kit 22x27 (inside)	1 50		
1 Kit 20x24 " "	1 40	Total for complete Outfit,	\$46 40

No. 1 ENLARGING OUTFIT.

1 5x8 Eastman's Enlarging Camera, for negatives 5 1/4 x 4 to 5x8,	\$20 00	1 Kit, 10x12 inside,	\$0 66
1 No. 1 Easel,	7 50	1 Kit, 8x10 " "	60
		Total for complete Outfit,	\$28 76

COOPER'S UNIVERSAL ENLARGING LANTERN.

(PATENT APPLIED FOR.)

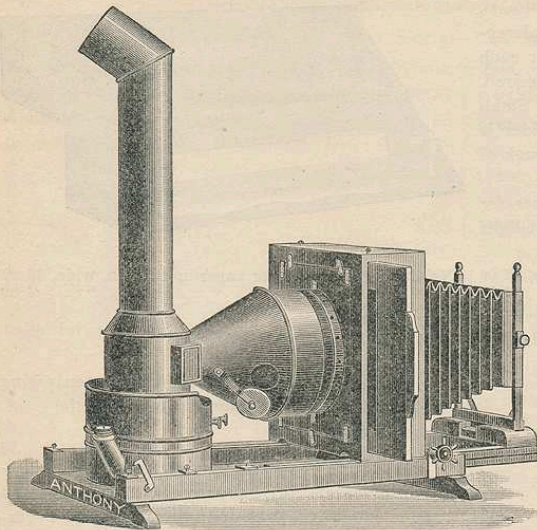
Especially Adapted for the Bromide Paper.

Price Without Objective, - \$40.00.

Any double combination lens may be used as an objective with this lantern.

The cuts give an admirably clear idea of the Universal Lantern, and at a glance any one acquainted with the mechanism of projecting lanterns will see its advantages. With only a passing reference to the camera and front, the use of which is obvious, your attention is called to the apparatus for illumination, which is by all odds the most important feature of any enlarging lantern.

The Lamp, which is intended for use with kerosene, is provided with a double-wick burner, both flames emerging through a single aperture in the dome. This feature increases the volume of light two-fold; the burner is provided with a close fitting chimney-base fitted with an aperture covered with non-actinic glass, intended for both dark room illumination and also for observing the height of the flames. A conical light conductor connects the lamp with the condensing lenses, and is made to telescope so as to adjust the light accurately to the focus of the condensers; this light conductor has an aperture at the side covered with a movable metallic disk, and is intended to admit of the operator finding



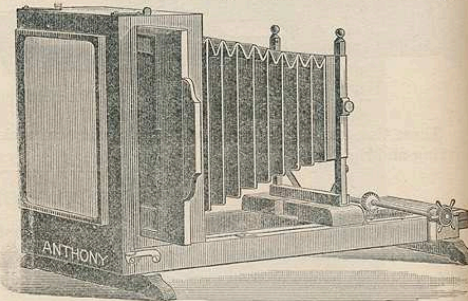
Above shows it in use with artificial light.

the centering point of his flame on the condensers; this he will see at a glance by the reflector. The light conductor and chimney base are held rigidly and admit of the lamp and burner being revolved so as to bring the flame in any desired position. Experience demonstrates that a position of the flame diagonally to the condensers gives the most perfect and even illumination.

The form of this lantern is such that all heat passes upwards through the chimney, and as there is no boxing around the apparatus it is always cool, and all risk of breaking lenses or negatives is avoided. The change from the use of artificial light to daylight is better shown in the cut than described in writing. With this lantern and a half inch stop in a half-size portrait lens, life-size enlargements from cabinet negatives may be easily made with Anthony's Reliable Bromide Paper in from thirty-five seconds to one minute, according to density of negative.

The design of this lantern is the result of long practical experience with various methods of illumination for enlarging, and I can guarantee its giving results as perfect as the electric light at a cost that makes comparison ridiculous. This lantern is also admirably suited for slide projection, and is therefore of double value to societies and colleges.

DAVID COOPER.



Above shows it transformed into a DAYLIGHT ENLARGING CAMERA.

EASTMAN NEGATIVE PAPER AND APPARATUS FOR ITS USE.

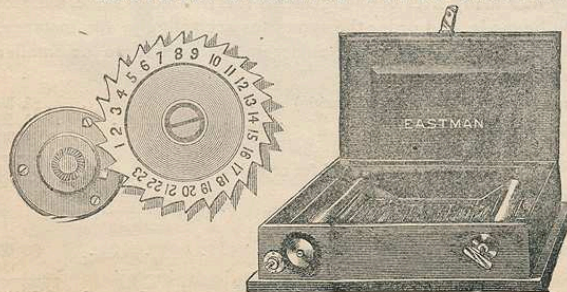
AUTOMATIC TALLY FOR ROLL HOLDER.

(PATENT APPLIED FOR.)

No roll holder should be without this useful device to record the number of exposures made.

Roll holders on Scovill Detective Cameras and all roll holders sent out from the American Optical Co., with or without cameras, have the American Optical Co. Automatic Tally fitted to them.

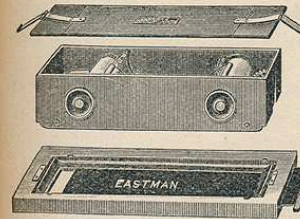
Price \$2 00
To order only.



THE NEW MODEL ROLL HOLDERS WITH AUDIBLE AND VISIBLE INDICATORS.

For Twenty-Four or Forty-Eight Exposures.—5-8 in Stock, Others to Order.

Patented May 5, 1885. Label Registered, 1885.



The Roll Holders holds a spool of negative paper containing material for twenty-four or more negatives, and is attached to the camera (any camera) in place of the ordinary glass plate holder. After each exposure a fresh section of paper is turned into position by a key. When a sufficient number of exposures have been made, the exposed portion of the paper is removed from the holder, and each exposure separated by cutting at the marks made on the paper by an automatic device in winding the paper into position for exposure. Each exposed section is then developed, fixed and dried, the same as ordinary glass plate. After drying, the paper negative is rendered translucent with translucentine, and is then ready to print from, the same as a glass negative.

Roll Holders are handsomely finished with the finest polished mahogany cases.

The Roll Holders have:

- | | | | |
|-------------------------|----------------------|---------------------|-----------------|
| Automatic Side Tension, | Detachable Spool, | Automatic Register, | Detachable Reel |
| Automatic End Tension, | Removable Mechanism, | Automatic Brake, | |

FITTING ROLL HOLDERS.

We can fit Roll Holders to all of the standard Cameras. An extra charge is made for this in all cases except when the holder is sold with the camera. In ordering roll holders for old cameras, it is advisable to send the camera or one of the double holders to the factory, to serve as a pattern. Where this is impracticable on account of distance or otherwise, give full particulars as to make and name of camera and outside dimensions.

ROLL HOLDERS—EXTRA PARTS.

All parts of Roll Holders are made interchangeable, and any part can be furnished on application.

New Model with Both Audible and Visible Indicators and Non-Detachable Key.

3 1/2 x 4 1/2 size, \$12 00	5 x 7 1/2 Size, \$20 00	8 x 10 Size, \$30 00	16 x 20 Size, \$60 00
4 x 5 " 15 00	5 x 7 1/2 " 20 00	10 x 12 " 36 00	18 x 22 " 75 00
4 1/2 x 6 1/2 " 17 50	5 x 8 " 20 00	11 x 14 " 42 00	20 x 24 " 80 00
4 1/2 x 7 1/2 " 20 00	6 1/2 x 8 1/2 " 24 00	14 x 17 " 50 00	25 x 30 " 85 00

† English sizes.

‡ Visible indicator only.

We send out with every Roll Holder a spool of plain paper, to enable the operator to learn to manipulate it in the white light. The first or old model style is discontinued.

EASTMAN'S NEGATIVE PAPER.

This Negative Paper is adapted for landscape and interior work, and for large portraits. For these purposes it is equal to glass in all respects, and has the important advantages of portability, freedom from halation and economy. Full directions with every package.

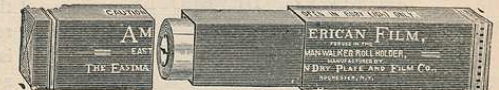
Cut Sheets.—Size, 5 x 7, Two dozen in Box, \$1 55 | Cut Sheets.—Size, 6 1/2 x 8 1/2, Two dozen in Box, \$2 45
 " " " 5 x 8, " " " 1 75 | " " " 8 x 10 " " " 3 50

Other sizes to order.

NEGATIVE PAPER ON SPOOLS.

TO FIT ALL HOLDERS.

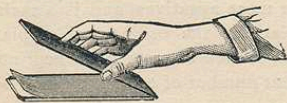
3 1/2 inches, for two dozen,	3 1/2 x 4 1/2 exposure,	\$ 0 75	11 inches, for two dozen,	11 x 14 exposure,	\$ 8 00
4 " " "	4 x 5 " "	1 00	14 " " one dozen,	14 x 17 " "	6 00
4 1/2 " " "	4 1/2 x 5 1/2 " "	1 80	16 " " " "	16 x 20 " "	8 00
4 1/2 " " "	4 1/2 x 6 1/2 " "	1 55	18 " " " "	18 x 22 " "	10 00
5 " " "	5 x 8 " "	2 00	20 " " " "	20 x 24 " "	13 25
6 1/2 " " "	6 1/2 x 8 1/2 " "	2 70	25 " " " "	25 x 30 " "	20 00
8 " " "	8 x 10 " "	4 00	Spools wound in three or four dozen, if required.		
10 " " "	10 x 10 " "	6 00	5 in., 6 1/2 in. and 8 in. in stock, other sizes to order.		



FILM CARRIERS.

FOR SUPPORTING AND STIFFENING THE PAPER, SO THAT IT CAN BE USED IN THE ORDINARY HOLDER.

(PATENTED MAY 5, 1885.)



	3-32 in. thick.	1/8 in. thick.	3-16 in. thick.
5 x 7	each, \$0 35	.....	\$0 35
5 x 8	.....	35	\$0 35
6 1/2 x 8 1/2	.....	40	40
8 x 10	.....	50	50

Sizes not mentioned are furnished to order.

In ordering Carriers, specify which thickness is wanted. The thicker the carrier the more rigid.

Double Holders that have the plate slide in from the end require the thinnest Carrier (3-32).

The Daisy Holder will take the 1/4 inch Carriers when the divider is removed. As the Carriers are opaque, the divider is not required.

Wet Plate Holders require the 3-16 Carriers.

SQUEEGEES.

VELVET RUBBER.



6 inch	.....	\$0 40
8 "	.....	50

Squeegee is used to scrape off the water from the paper negative when laid on the rubber plates to dry.

CONCENTRATED IMPROVED DEVELOPER.

IN ONE SOLUTION.

This development is made by an improved formula, especially adapted for both glass and paper negativess.

Price, per bottle, sufficient to develop

100 5x8 paper negatives.....50c



EXTRA REELS.

FOR ROLL HOLDERS.

To order only.

3 1/4 inches	.....	\$0 50	10 inches	.....	\$0 75
4 "	.....	50	11 "	.....	1 00
4 1/2 "	.....	50	14 "	.....	1 00
4 3/4 "	.....	50	16 "	.....	1 25
5 "	.....	50	18 "	.....	1 25
6 1/2 "	.....	75	20 "	.....	1 50
8 "	.....	75	55 "	.....	2 00

Extra Reels enable the operator to remove the exposed paper from the roll holder without separating the exposures or rewinding the paper film, an operation that should always be avoided. Enough extra reels should be provided to carry all exposures that are intended to be made before developing. For instance, if 100 exposures are to be made on a trip, three extra reels are required. Each reel, as soon as full, is removed from the holder and replaced by another to take the paper from a fresh spool. The boxes in which the spools are sold serve to store the reels of exposed paper. Empty spools are thrown away.

HARD RUBBER PLATES.

FOR DRYING PAPER NEGATIVES.

	1-16 in. thick.
5 x 8	.....each, \$0 20
6 1/2 x 8 1/2	..... " 30
8 x 10	..... " 40

Larger sizes to order.

One negative can be laid upon each side of the rubber plate, which can then be placed in an ordinary plate rack to dry.

TRANSLUCINE.

FOR RENDERING EASTMAN'S PAPER TRANSLUCENT WITHOUT THE USE OF HEAT.

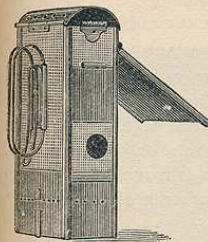
DIRECTIONS.—Pour a little of the Translucine on to the back of the negative and spread with the finger evenly over the surface; in four or five hours the Translucine will have soaked into the paper, rendering it transparent and free from grain. Heat is not necessary, but may be used to accelerate its action. When the paper is of an even dark color, wipe off the excess of Translucine with a clean rag, and the negative is ready to print.

If the negative is in constant use, an occasional application of the Translucine will keep it in good condition.

Price, per bottle,.....35c

DARK ROOM LANTERNS.

W. I. A. RUBY LANTERN.



As a means of obtaining a small amount of light with a lantern that is compact and portable, this style answers the purpose admirably. It cannot be recommended, however, for general use in the developing room.

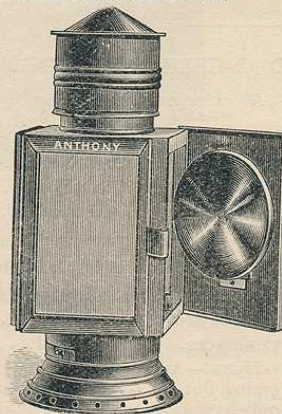
Price, advanced.....60cts

Scovill's Non-Actinic Dark Room Lantern.

The Scovill Mfg. Co. now announce a new lantern for dark room illumination, to be styled "Scovill's Non-actinic Dark Room Lantern." In the opinion of the most eminent medical authority in England, the continued use of ruby light doubtless works very great and permanent mischief to the eyesight. To every one this color of light has been very unpleasant, and the announcement that it can be safely superseded by the light penetrating orange glass, properly modulated, will be hailed with satisfaction by the profession.

This lantern is supplied with an extra groove in each sash which can be used for an additional glass or paper.

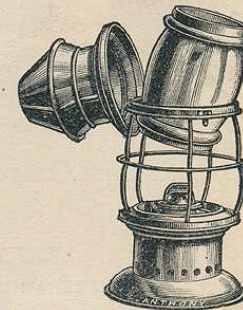
Price.....each, \$2 00



ANTHONY'S PERFECT DRY PLATE LANTERN.

It will be observed that in the Perfect Lantern all the parts are separable, and all are easily and quickly adjusted. It has no hinges nor armholes to break, and every part of it is instantly and always accessible.

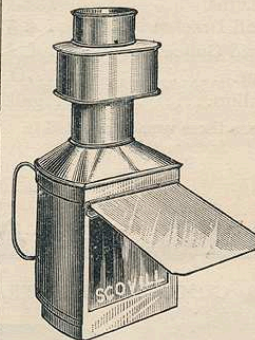
Price,.....\$1 50



THE PETITE LANTERN.

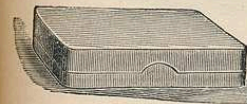
This is a new Candle Light, with splendid draft, and gives a good light. It has an extra groove for two different tints of glass or paper. The shade can be used at three different angles,

Price,.....\$1 25



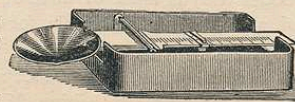
SCALES AND WEIGHTS.

PATENT POCKET PYRO SCALES.

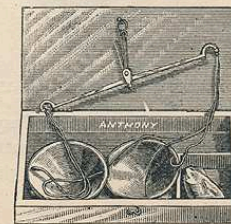


Capacity from one-half to twenty grains. Can be carried in the vest pocket. No weights to lose. Every photographer should have one. Always ready and convenient.

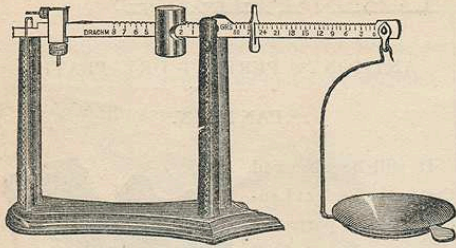
Price, each, \$1.00



HAND SCALES AND WEIGHTS.



In boxes, 6 in. beam, with drachms and grains.. \$0 85



FAIRBANK'S NEW PATENT DISPENSING SCALES.

NO WEIGHTS—QUICKLY ADJUSTED.

This, we believe, will fill a long felt want. It has a 9-inch nickel plated beam, neatly mounted on a Japan iron standard. The front end of beam weighs from 1 to 30 grains, the other end weighing from *one-half to eight* drachms, 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 GRAIN AND DRACHM WEIGHTS.....PRICE, PER SET, 25c

WEIGHTS AND MEASURES.

APOTHECARIES' WEIGHT.

SOLID MEASURE.

20 Grains.....	1 Scruple.....	20 Grains.
3 Scruples.....	1 Drachm.....	60 "
8 Drachms.....	1 Ounce.....	480 "
12 Ounces.....	1 Pound.....	5760 "

FLUIDS.

Symbol.

60 Minims.....	1 Fluid Drachm.....	f. ℥
8 Drachms.....	1 Fluid Ounce.....	f. ̄
16 Ounces.....	1 Pint.....	O.
8 Pints.....	1 Gallon.....	gall.

The above weights are those usually adopted in formulæ.

All chemicals are sold by

AVOIRDUPOIS WEIGHT.

27 1/2 Grains....	1 Drachm....	27 1/2 Grains
16 Drachms.....	1 Ounce.....	437 1/2 "
16 Ounces.....	1 Pound.....	7900 "

Precious metals are usually sold by

TROY WEIGHT.

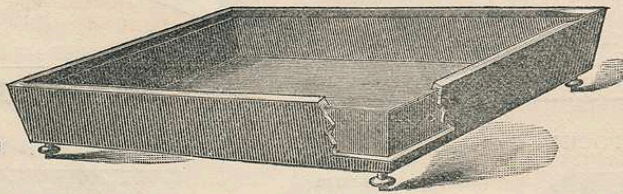
24 Grains.....	1 Pennyweight....	24 Grains
20 Pennyweights..	1 Ounce.....	480 "
12 Ounces.....	1 Pound.....	5760 "

NOTE.—An ounce of *metallic* silver contains 480 grains, but an ounce of *nitrate* of silver contains only 437 1/2 grains.

TRAYS, GLASSWARE, &c.

COMMON SENSE TRAY.—REDUCED PRICES.

The Lightest,
Strongest, Safest
and Best Tray in the



Market for
Silvering, Washing,
Toning, &c.

PATENTED MAY 27, 1884.

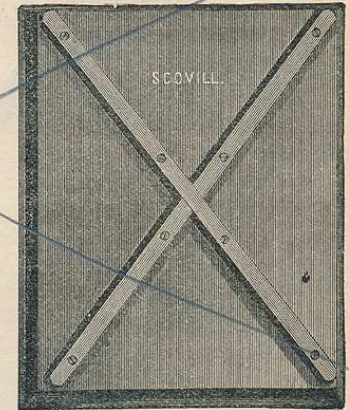
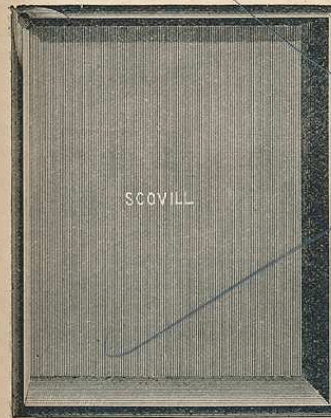
THIS TRAY IS MADE OF HEAVY CHEMICAL PROOF PAPER. IT CAN'T CRACK OR LEAK.

A light but strong wooden outside Tray encases it for the sole purpose of stiffening it and making it easy to handle when in use. The bottom of this wooden tray is made of three or more strips which are tongued and grooved but "not" glued or fastened, and thus it is impossible for it to crack. *Every Tray warranted.*

15 x 19 Size, each.....Price, \$3 50 | 19 x 24 Size, each.....Price, \$5 00
21 x 26 Size, for 20 1/2 x 24 1/2 Albumen Paper, each.....Price, \$6 00

TRAYS, GLASSWARE, &c.—Continued.

THE WATERBURY TRAY.



Are constructed upon more scientific principles than any other wooden tray in the market.

These trays are made by the AMERICAN OPTICAL CO., which of itself is a guarantee of the superiority of the wood work, and in addition to such indorsement we give each Tray our own warrant. Wherever used they have stood the test of time, with no exceptions.

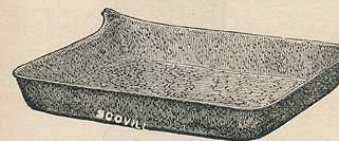
Canvas is not required for the seams, as they are virtually seamless. The bottom rests on cross-strips—a great improvement, for steadiness, over knobs at the corners, which were liable to be broken off. The Waterbury Trays will not warp or crack, and are recommended for Silvering, etc., also for Eastman's Bromide Paper.

15 x 19, Waterbury Tray, each, \$3 50
19 x 24, " " " 5 00

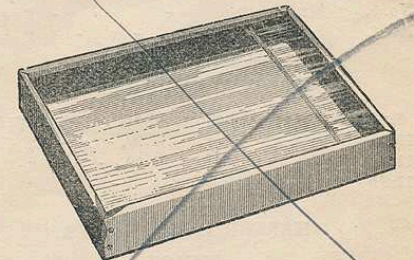
22 x 28, Waterbury Tray, each, \$6 50
25 x 30, " " " 9 00

THE NEW AGATE IRON-WARE TRAYS.

NO MORE BREAKAGE. STRONG DURABLE.



GLASS BOTTOM DRY PLATE DEVELOPING TRAY.



Wood walls, Chemical proof lining, glass bottom and pocket. Lay plate in the tray, and develop as usual; to look through the negative, it is not necessary to take the plate out of the tray, simply raise end of tray opposite and let the pocket catch the developer and the plate is readily examined.

A strip of glass extends across the bottom of one end to prevent suction.

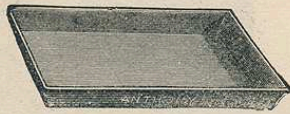
8 x 10 Size,.....	Shallow, \$1 24....	Deep, \$1 60
10 x 12 ".....	" 2 00....	" 2 25
11 x 14 ".....	" 3 00....	" 3 37
15 x 19 ".....	" 7 00....	" 8 00
19 x 24 ".....	" 12 00....	" 15 00

5 1/2 x 8 1/2 Size, each, \$1 20 | 8 1/2 x 10 1/2 Size, each, \$1 30

TRAYS, GLASSWARE, &c.--Continued.

JAPANESE IRON TRAYS.

EXTRA HEAVY

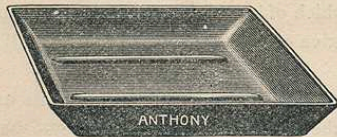


For 4 x 5 Plates,	each,	\$0 20
" 5 x 8 "	"	25
" 6 1/2 x 8 1/2 "	"	30
" 8 x 10 "	"	40
" 10 x 12 "	"	50

We keep these in stock, as some use them for Dry-plate development. We, however, cannot recommend them for this purpose, and they cannot be used for silver or acid solutions.

NEW RUBBER TRAYS.

FOR DEVELOPING.



English Hard Rubber! Glazed Finish! The Latest! Pleases Everybody! Has two raised ribs on bottom to prevent suction.

NOTE THE PRICES.

No. 2, For 4 1/2 x 5 1/2 Plates	each,	\$0 30
No. 3, " 4 1/2 x 6 1/2 "	"	40
No. 4, " 5 x 8 "	"	60
No. 5, " 6 1/2 x 8 1/2 "	"	80
No. 6, " 8 x 10 "	"	1 30

PORCELAIN TRAYS.

8x10 Size,	Shallow,	\$0 75,	Deep,	\$0 90
10x12 "	"	1 20,	"	1 50
11x14 "	"	1 90,	"	2 25
15x19 "	"	5 65,	"	7 25

HARD RUBBER TRAYS.

SHALLOW.

No. 2, 4 x 5	\$0 60	No. 6A, 10 1/2 x 12 1/2	\$2 75
" 3, 5 x 7	80	" 7, 12 x 16	3 50
" 3A, 5 1/2 x 8 1/2	1 05	" 8, 15 x 18	5 00
" 4, 7 x 9	1 10	" 9, 18 x 22	7 50
" 5A, 8 1/2 x 10 1/2	1 65	" 10, 21 x 26	8 75

DEEP.

No. 6 1/2, 10x12,	\$3 80.	No. 7 1/2, 12x16,	\$6 00.
No. 8 1/2, 15x18,		\$7 00.	

OUR NEW GLASS DISH.

Made of amber-colored and clear glass. The best shaped Tray in the market; are very strong and of smooth finish; can be washed readily and used for several purposes. They are splendid for developing.

5 1/2 x 8 1/2 Bottom Measure	each,	\$0 50
8 1/2 x 10 1/2 " " "	"	65

AGATE-IRON EVAPORATING DISHES.



No. 3. Diameter, 9 inches; capacity, 1/2 gall	\$1 00
No. 4. " 12 " " " 1 "	1 65

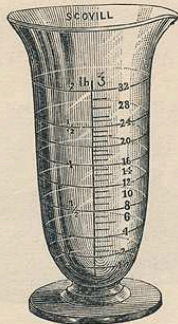
PORCELAIN EVAPORATING DISHES.

FINEST BERLIN WARE.

No. 7.—24 oz.,	each,	\$0 45
No. 3.—2 quarts.	"	1 00
No. 2.—3 quarts,	"	1 50
No. 1.—1 gallon,	"	1 80

GLASS GRADUATES.

Vom Hofe's Patent. The Rings extend all around, making exact measurement easy.

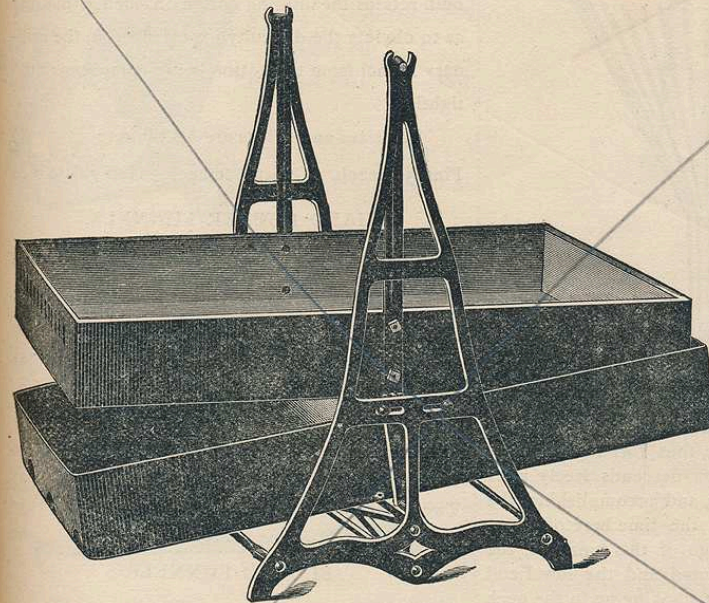


1 ounce,	\$0 20
Minim.,	25
2 ounces,	25
4 "	35
6 "	45
8 "	50
12 "	80
16 "	1 00
32 "	1 50

TRAYS and GLASSWARE--Continued.

NEW AUTOMATIC PRINT WASHER.

PATENTED APRIL 12, 1887, BY LONG & SEYMOUR.



It is the only machine in the market which will WORK AUTOMATICALLY WITH ITS OWN WASTE WATER! It is strictly automatic and requires no attention after having been placed in your sink and water turned on. The great advantage of this feature will at once suggest itself, as it SAVES THE TIME OF YOUR OPERATOR OR PRINTER!

The water falls on the prints in the top tray (it would be best to have it come through a sprinkler attachment), the outlet for same being a series of small apertures distributed

along bottom of both ends of tray, and while giving sufficient agitation, by virtue of the rocking motion, to INSURE THOROUGH WASHING, yet it prevents any strong currents which would have a tendency to tear or destroy prints. The rocking motion imparted to the upper tray is caused by the waste water going out at the bottom of each end and flowing out at the top, the apertures above referred to are so made that the waste water must necessarily reach almost to the top of the tray before it effects its escape into the lower tray, carrying with it all impurities from the prints. The lower tray then filling up dumps the upper one and draws off its own water, the other end then filling and doing likewise, thereby rocking the upper, or washing tray every two seconds, keeping the prints separate and constantly moving in absolutely fresh water.

17 x 23, Size for 16 x 20 prints and under, Price, \$12 00 | 23 1/2 x 30, Size for 22 x 27 prints and under, Price, \$15 00

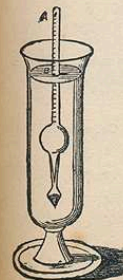
HYDROMETERS.

Best, single degree, each, 50c. | In Wooden Bozes.

These are examined before packing, and we cannot be responsible in case of breakage.

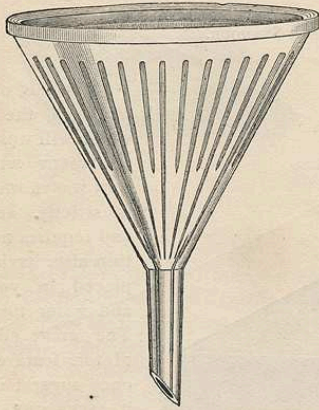
PILE'S SILVER TEST.

For accurately indicating the strength of Silver Baths \$2 00



TRAYS and GLASSWARE--Continued.

THE PATENT RIBBED FUNNEL.



This is the latest and BEST GLASS FUNNEL EVER MADE. They are very strong, are blown in moulds and have solid glass ribs on the inside, running vertically, as shown in cut, thus forming passages through which the solution descends freely after passing through the paper, and accomplishing the filtration in a fraction of the time heretofore required. Another advantage of this funnel is, the outside of the neck is fluted, and the lower end beveled, so as to prevent choking up in the neck of the bottle and overflowing.
Pint, each, 30c. | Quart, each, 40c. | 2-quart, each, 75c.

GLASS FUNNEL AND FILTER.

In this combination of funnel and filter, the bulb retains the filtering cotton in such a manner as to obviate the difficulty experienced in the ordinary funnel from the cotton being compressed too tightly.

The sizes and prices are as follows :

Pint, 50c each. Quart, 62c each. Half gal., \$1 00

HARD RUBBER FUNNELS.

No. 0.	1/4 pint.....	\$0 40
" 1.	1/2 "	45
" 2.	1 "	50
" 3.	1 quart.....	65

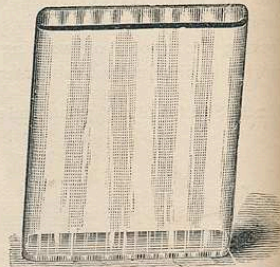
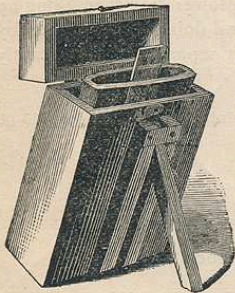
PLAIN GLASS FUNNELS.

One Pint.....	each, \$0 20
One quart.....	" 25
Two Quarts.....	" 35
One Gallon.....	" 60

FLUTED FUNNELS.

One Quart.....	\$0 35
Two Quarts.....	45

FLAT GERMAN GLASS BATHS.

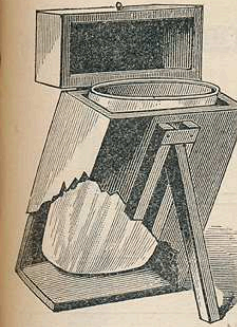


	Bath Alone.	In Boxes, A. O. Co. make for Studio.
5 x 7 size for 1/2 plate.....	\$ 1 35	\$ 2 35
7 x 10 " 4-4 "	2 25	3 75
9 x 12 " 8 x 10 "	2 75	4 50
11 x 14 " 10 x 12 "	4 00	6 00
12 x 16 " 11 x 14 "	5 50	8 50
15 x 20 " 14 x 17 "	16 00	19 00

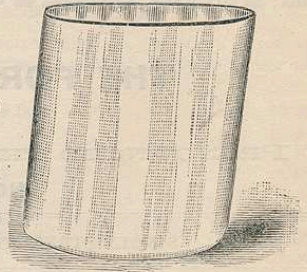
TRAYS, GLASSWARE, &c.--Continued.

LEWIS' PATENT GLASS BATH.

(As shown in the Cut.)



For 8x10 plate and smaller, in box, as per cut.....\$3 50
For 8x10 plate and smaller, without box..... 2 50
For 5x7 plate, in patent box. 2 50
For 5x7 plate, without box..... 1 75



HARD RUBBER BATHS.

An advance of 10 per cent. February, 1884.

No. 4, size plate, 5x 7, plain \$1 25, covered \$4 00
No. 5, " " 7x10, " 1 70, " 5 00

BATH DIPPERS.

HARD RUBBER. NEW STYLE.



No. 4, for 5x 7 size bath, - - -	each, \$0 40
No. 5, " 7x10 " " - - -	" 45
No. 6, " 9x11 " " - - -	" 50
No. 6 1/2, " 11x14 " " - - -	" 55
No. 8, " 12x16 " " - - -	" 65

GLASS MORTARS AND PESTLES.

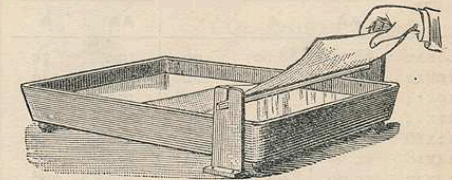


3 inch.....	35c
4 inch.....	60c

GLASS FORMS FOR TRIMMING.

Card Size, square - - - - -	each, \$0 35
Cabinet Size, Square - - - - -	" 65
Stereo Size, Square or Arch - - - - -	" 50
Panel, Square - - - - -	" 1 00
Boudoir, Square - - - - -	" 1 25

GLASS RODS FOR SILVERING.



23 inch.....	each, \$0 30
11 inch.....	" 15

HOLLOW GLASS TUBES.



For silvering paper.		
15 inches long, 1/2 inch diameter - - -		\$0 25
19 " 3/4 " " - - -		40
23 " 1 " " - - -		50

FIRST QUALITY FRENCH GLASS.

FOR NEGATIVES OR COVERING PHOTOS, CRAYONS, ETC.

This is first quality glass. We can furnish second quality about one-third less.

Size.	Per box of 50 feet.	Per doz.
6 1/2 x 8 1/2 - 133 lights to box.....	\$4 00	\$0 50
8 x 10 - 90 " " "	4 00	70
10 x 12 - 60 " " "	4 00	1 10
11 x 14 - 47 " " "	4 50	1 50
14 x 17 - 31 " " "	4 50	2 40
16 x 20 - 23 " " "	4 50	3 40
18 x 22 - 18 " " "	5 75	5 00
20 x 24 - 15 " " "	6 00	5 50
22 x 28 - 12 " " "	6 75	7 50
26 x 32 - 9 " " "	7 50	10 80

Prices liable to change. No allowance for breakage.

Trays, Glassware, &c.--Continued.

Price Current of American Glass,

MADE BY

THE FORT SCOTT CLASS WORKS.

MANUFACTURED BY NATURAL GAS.

PRONOUNCED THE FINEST AMERICAN GLASS MADE.

NOTE THE DISCOUNTS BELOW.

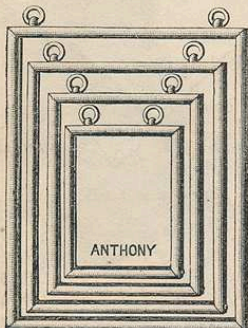
SINGLE STRENGTH.					DOUBLE STRENGTH.						
SIZE.	PRICE, PER BOX.		No. Lights in Box.	PRICE, PER LIGHT.		SIZE.	PRICE PER BOX.		No. Lights in Box.	PRICE PER LIGHT.	
	Quality.			Quality.			Quality.			Quality.	
	AA	A		AA	A		AA	A		AA	A
8x10	\$8.75	\$8.00	90	10c	7c	20x26	\$19.50	\$18.75	14	\$1.40	\$1.27
10x12	8.75	8.00	60	15c	14c	22x28	19.50	18.75	12	1.63	1.48
10x14	8.75	8.00	52	17c	16c	24x30	20.75	19.00	10	2.08	1.90
11x14	8.75	8.00	47	22c	20c	24x36	22.00	20.25	9	2.45	2.25
12x16	10.00	9.25	38	17c	25c						
14x18	10.00	9.25	29	35c	32c						
14x20	10.00	9.25	26	39c	36c						
16x20	10.00	9.25	23	44c	41c						
18x22	12.50	11.50	18	70c	64c						
18x24	12.50	11.50	17	74c	68c						
20x24	12.50	11.50	15	84c	77c						

DISCOUNT:--Full Box 60 Per Cent.
 " On Single Lights 50 Per Cent.

CONVEX GLASS.

Card size (R. C.), square, per doz., \$0 35	Cabinet size, oval, per doz., \$0 60	8 x 10, square, per dozen, \$4 00
" oval, " 30	Panel size, square, " 1 75	10 x 12; " " each; 1 00
Cabinet size (. C.), square, " 65	6 1/2 x 8 1/2, square, " 2 25	

PATENT TRANSPARENCY FRAMES.



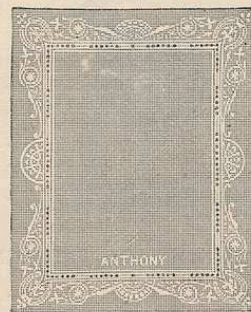
Please specify when ordering, "rings on end," or "rings on side."

These are made with one slide, removable, enabling the transparency to slide into frame easily and without danger of breaking. They are also made to hang either vertically or horizontally.

6 1/2 x 9, price, each, 50c. | 8 x 10, price, each, 50c.

ETCHED GROUND GLASS.

FOR TRANSPARENCY FRAMES.



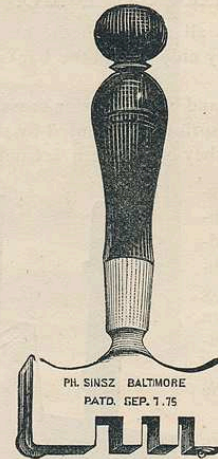
6 3/4 x 9, for 5 x 8 Photos..... \$0 45
 8 x 10, for 5 1/2 x 7 1/2 " 50

TRAYS, GLASSWARE, &c.--Continued.

DIAMONDS.



No. 1.



Universal No. 2.

A good diamond is indispensable in every well-regulated gallery or framing establishment.

These we warrant first-class.

No. 1, ebonized handle, with key..... each, \$3 25
 No. 2, Universal..... " 3 50

RESETTING DIAMONDS, (Good as new) 1 50

The No. 2 is the same quality of Diamond as No. 1, but is set or mounted so that any one, even though they never saw a diamond before, can make a successful cut every time.

DIRECTIONS FOR USING THE UNIVERSAL DIAMOND—Hold the Diamond against the cut. Place it perpendicular on the glass, so it rests on the Diamond and Guide-wheel—the wheel towards you. Press on it gradually, until it makes a singing sound, not a harsh noise.

STEEL GLASS CUTTER.

It is also a knife sharpener, can opener, etc.
 Each..... \$0 75

RUBY, ORANGE OR GREEN GLASS.

FOR DARK ROOMS.

Size.	Per Light.
8x10	\$0 30
10x12	40
11x14	50
12x16	60
12x20	75

Larger sizes, 40 cents per square foot.

EXTRA FINE GROUND GLASS.

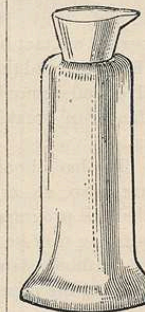
SELECTED CLEAR CRYSTAL PLATE--MUD GROUND.

Equal to the best used in Am. Opt. Co.'s Boxes, at greatly reduced prices A poor ground Glass is dear at any price.

5 1/2 x 5 1/2 for 4 1/2 x 5 1/2 Box,	each, \$0 25
2 x 7 " 5 x 7 "	" 40
5 x 8 " Stereo "	" 40
8 1/2 x 8 1/2 " 6 1/2 x 8 1/2 "	" 50
10 x 10 " 8 x 10 "	" 75
12 x 12 " 10 x 12 "	" 1 10
14 x 14 " 11 x 14 "	" 1 50
17 x 17 " 14 x 17 "	" 2 25
20 x 20 " 17 x 20 "	" 3 00
22 x 22 " 18 x 22 "	" 3 60
24 x 24 " 20 x 24 "	" 4 50

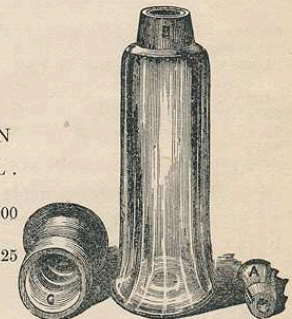
COLLODION VIALS.

2 oz.	\$0 15
4 "	20
6 "	25
8 "	30
10 "	35
16 "	55



ANTHONY'S IMPROVED COLLODION VIAL.

Price, 6 oz. . . . \$1 00
 " 8 " 1 25



CROSS' FILTERING AND POURING BOTTLE.

The bottle is of the ordinary form, but of somewhat larger size; inside of this a glass tube is inserted, from the top of which the collodion or varnish flows, and at the base one or more thicknesses of cotton flannel serve as a filter, that will last for months. The funnel shaped orifice receives the excess from the plate, and renders waste unnecessary. The cap covers both flowing and receiving orifice, and is easily removed. Many persons have expressed their appreciation of its convenience.

Price \$3.00

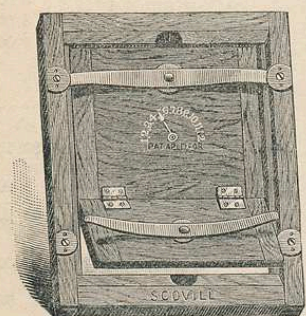
Miscellaneous Goods.

SCOVILL PRINTING FRAMES.

The Scovill Printing Frames are now provided, in all sizes, with the new tally, without addition to the price. Below 5 x 7 size there is room for the tally only where the backs are cut "two-thirds," as shown in the first illustration.

The Scovill Printing Frames are made of cherry, and have superior brass springs constructed on scientific principles. On the flat printing frames, these springs are secured by rivets and turn on brass washers, being held at the end by buttons made so that they cannot turn around.

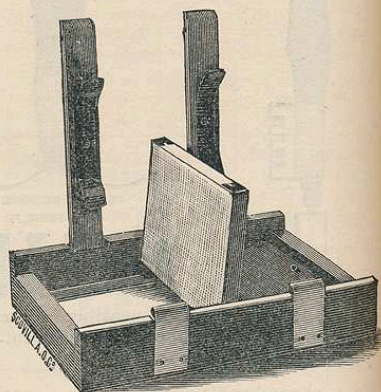
PATENT APPLIED FOR.



FLAT PRINTING FRAME.

THE SCOVILL PRINTING FRAMES are constructed so that a uniform pressure is obtained, thus insuring perfect contact between the paper and the negative, and removing the danger of breaking the latter.

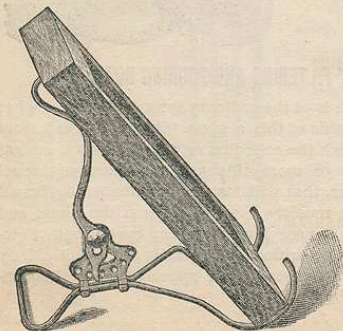
The back-boards are also so arranged that the progress of the printing may be watched without danger of shifting the paper.



DEEP PRINTING FRAME.

For Plates.	Flat.	Deep.	For Plate.	Flat.	Deep.
1/4 size.	\$ 36	\$ —	10 x 12 size,	\$1 00	\$2 00
4 x 5 size,	38	—	11 x 14 "	2 00	2 50
1/2 size,	40	—	14 x 17 "	2 45	3 00
4 1/4 x 6 1/2 size,	42	—	16 x 20 "	4 50	3 75
*5 x 7 "	50	—	17 x 20 "	4 50	4 75
*5 x 8 "	52	—	18 x 22 "	5 00	5 25
*6 1/2 x 8 1/2 "	60	1 75	20 x 24 "	5 50	5 50
*8 x 10 "	75	1 88	24 x 30 "	—	9 00

These Frames are made of cherry, brass springs and panelled backs. Those marked with an * we supply opening the long way (in flat only), for 10 per cent. additional to the above price. From 1/4 to 14 x 17 either 2/3 or center opening.



DEVOE'S PRINTING EASEL.

Holds the printing frame at any desired angle. Economizes space. Keeps your negatives square to the sun, thereby making more symmetrical vignettes. This is easily done with this adjustable holder. It also prevents your printing frames from slipping down and breaking negatives.

BETTER THAN SHELVES, BLOCKS OF WOOD OR ANY OTHER DEVICE. Easily put out of the way when not in use.

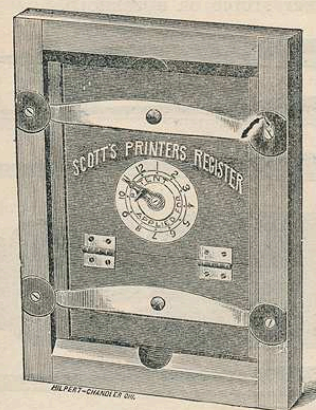
SIMPLE, EFFICIENT, CHEAP.

They do not wear out, break or rust, being made of malleable iron and strong wire, all thoroughly tinned. Try them and you will wonder how you ever got along without them. Size suitable for printing frames from 10 to 10 x 12.

PRICE, per dozen, \$3 00.

MISCELLANEOUS--Continued.

SCOTT'S PRINTERS' REGISTER.



PRICE, 5 cents each.

A NOVEMBER.

YOU NEED SOME.

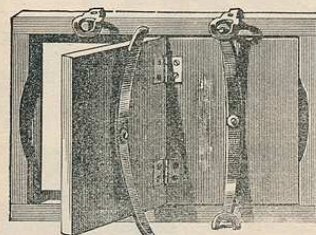
THE SCOTT ADJUSTABLE VIGNETTER AND PLAIN PRINTER.

The Scott Adjustable Vignetter is the only common sense vignetter in the market, and is the only one manufactured that is fully under the printer's control. Readily adjusted to any possible position, and held firmly with thumb screws. Easily attached to any ordinary printing frame, when once in position, never need be removed, as the opening is sufficiently large to print plain prints to fullest capacity of frame. Manufactured of tin, with brass spring underneath to raise vignetter to higher position; the clamping wire tightly holding either tissue paper, cut-out, or both. Card board cut-outs of various sizes accompany each vignetter.

3 1/4 x 4 1/2 size, each,	\$0 50	5 x 8 size, each,	\$6 70
4 1/2 x 5 1/2 " " "	60	6 1/2 x 8 1/2 " " "	75
4 1/2 x 6 1/2 " " "	65	8 x 10 " " "	85
5 x 7 " " "	70		

FAIRY PRINTING FRAMES.

(PATENTED DEC. 8, 1885.)



Combining strength, rigidity and lightness, and lightness, and so constructed that the springs lock into the eyes or catches on the sides, rendering it impossible for them to slip from position. They are handsomely finished, and much lighter and more compact than any other style.

PRICES AS FOLLOWS:

3 1/4 x 4 1/2, each,	45c.	5 x 7, each,	60c.
4 x 5 " "	45c.	5 x 8, " "	60c.
4 1/2 x 5 1/2 " "	45c.	6 1/2 x 8 1/2, " "	65c.
4 1/2 x 6 1/2 " "	55c.	8 x 10, " "	75c.

No larger sizes made of this style.

NEGATIVE BOXES.

For 24 5x8 plates,	\$0 85	For 12 11x14 " "	3 00
For 24 8x10 " "	1 10	For 12 14x17 " "	3 50

IMPROVED ELASTIC FELT PRINTING PADS.

A Superior Article to Anything Heretofore Offered, at Following Moderate Prices.

THEY ARE PUT UP IN PACKAGES OF ONE DOZEN EACH.

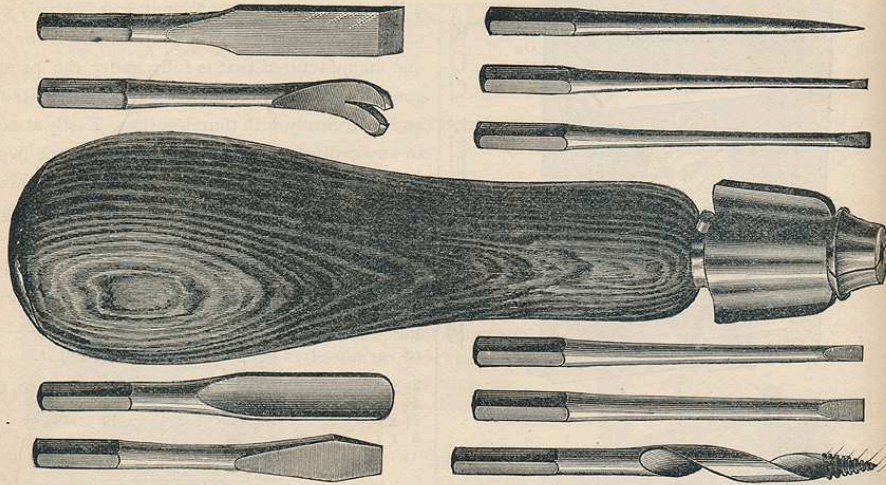
For 3 1/4 x 4 1/4 Printing Frame, per dozen,	\$0 35
For 4 x 5 " " " "	40
For 4 1/4 x 5 1/2 " " " "	45
For 4 1/4 x 6 1/2 " " " "	60
For 5 x 7 " " " "	70
For 5 x 8 " " " "	80
For 6 1/2 x 8 1/2 " " " "	1 08
For 8 x 10 " " " "	1 75
For 10 x 12 " " " "	2 40
For 11 x 14 " " " "	3 00
For 14 x 17 " " " "	5 00
For 16 x 20 " " " "	7 00
For 17 x 20 " " " "	7 50
For 28 x 22 " " " "	9 00
For 20 x 24 " " " "	9 75

These are very thick and elastic, and just what has been long wanted.

MISCELLANEOUS--Continued.

THE PATENT GIANT TOOL HANDLE.

A VERY HANDY AND SERVICEABLE TOOL IN EVERY STUDIO OR HOUSEHOLD.

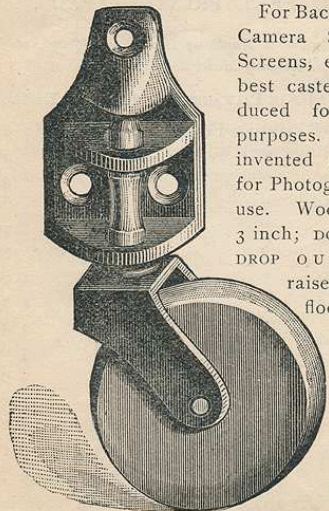


ACTUAL SIZE OF SET.

The hollow handle is made of Cocobolo wood and conveniently holds the tools. The vise jaws are nickel plated, and are turned with thumb and forefinger. The tools are made of the best steel, tempered in oil and are in use by many professional mechanics. Price, per set.....\$1 00.

THE MAGIC CASTERS.

PATENT APPLIED FOR.

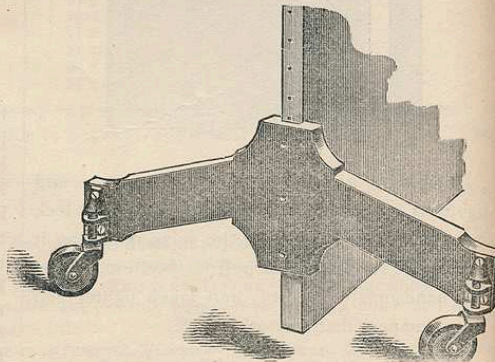


For Backgrounds, Camera Stands, Screens, etc. The best caster introduced for studio purposes. It was invented especially for Photographic use. Wood wheel. 3 inch; DOES NOT DROP OUT when raised off the floor.

Price, per set of four, - - - - \$1 00

THE MAGIC BACKGROUND BRACKET.

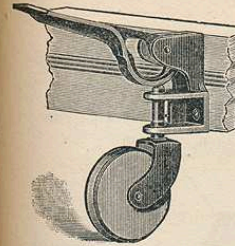
FOR BACKGROUNDS, SCREENS, ETC.



This consists of a wood bracket, made of ash-wood, 1 1/2 inches thick, nicely finished, and provided with a suitable groove and screw holes, already to fasten to backgrounds or screens. It is neat in appearance and is provided with the popular magic casters, which do not fall out.

Price,.....per pair, \$2 00

THE GEM CITY LEVER CASTER.



PRICE, - - - - - Each, \$1 00.

THE GEM CITY LEVER CASTER enables the operator with his foot to instantly raise the rear of the stand to adjust position, then drop to make it perfectly stationery.

ONE ONLY required. Can be attached to any camera stand having a square frame base.

BRACKET CASTERS.

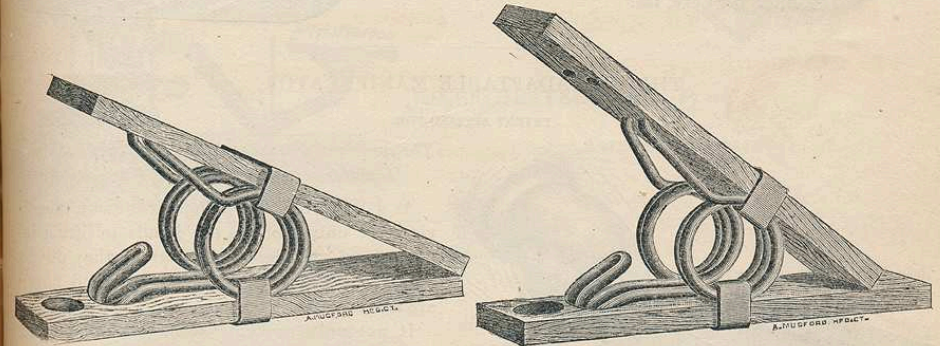
These Casters are the best known for backgrounds and other accessories; strong iron bracket with a wheel made of hardwood.

2 1/2 inch wheel, per set of four,\$0 50
3 " " " " " " 60

THE ADT PATENT ADJUSTABLE PHOTO-CLIP.

FOR HOLDING PAPER AND NEGATIVES WHILE DRYING, AND FOR PRINTING WITH BACKBOARDS.

Patented February 22, 1857.



ARRANGED FOR HOLDING PAPER, ACTUAL SIZE, 3 INCHES. ADJUSTED FOR USE WITH BACKBOARDS AND NEGATIVES.

The Only Adjustable Photo-Clip Made.

Its superior construction of selected hardwood and brass of proper strength, with the spiral spring so arranged as to dispense with the pin pivot, and all being made with hook and hole, so that they may be hung on cord, wire or nail are points of excellence which, when combined with the important advantage of an adjustable arm render them the most useful and practical clip made.

EVERY ONE WARRANTED.

PRICE, per dozen,.....75 cents.

LOCKWOOD'S NEW CLIP.

The new small size well suited for paper, etc.

PER DOZEN.....60 cents.

ARTIST'S WATERPROOF CUFFS.

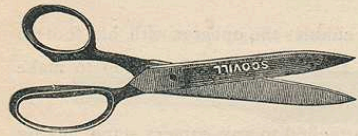


(For photographers' use) to prevent soiling the sleeves and cuffs while developing negatives, etc.

Price, per pair.....60 cents.

MISCELLANEOUS--Continued.

SHEARS.—STEEL BLADES.



A good article in this line saves much time and patience. We quote the very best at close figures.

10 inch, heavy, for tin-plate, each,	\$1 00
12 " for prints or paper, "	1 45
14 " " " " "	1 85

C. S. GLACE POLISH.

One of the best Lubricators. No trouble to use. Always ready. Put up in boxes, with hinged cover.

Price, per box, \$0 35.



GILBERT'S NEW LUBRICATOR.

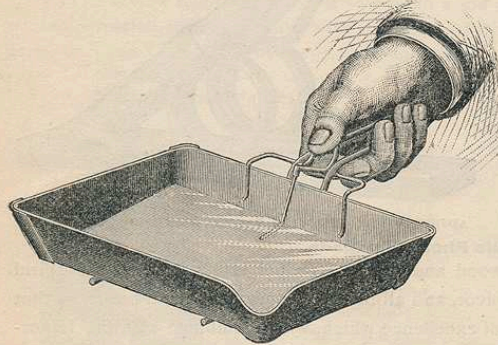
Price, per Cake, 50c.

ENTREKEN'S MAGIC LUBRICATOR.

Price, per Cake, 15c.

THE ADT ADAPTABLE MANIPULATOR.

PATENT APPLIED FOR.



The combined features of the device make it indispensable contrivance for the Dark-Room.

As will be seen at a glance at the cut, this device not only protects the hands in lifting the plate from the developer, but as they do not come in contact with the tray, stained fingers are entirely avoided.

It not only prevents soiling the hands, but will be found a great aid in manipulating the plate.

It is attachable to and will freely hold various sizes and depths of trays without adjusting.

The Lifter is of German Silver, flattened at the end, thus requiring no extra amount of developer.

They are strongly made and heavily nickel-plated throughout.

PRICE, 85 Cents Each.

THE LATEST.—LIGHTNING FLASH POWDER FOR MAKING NEGATIVES AT NIGHT.

PORTRAITS, GROUPS, ANIMALS, ETC.

DIRECTIONS FOR USING.—Place 40 grains of the powder on a bright metallic surface at the side of the camera, at about the same height as the lens. Extinguish all the lights in the room, or turn them very low. Remove the slide of the Plate Holder and the Cap from the lens. Then explode the compound with a long taper, and use a large reflector to throw all the light possible on the objects to be photographed.

PRICE, 75 Cents per Bottle.

MISCELLANEOUS.--Continued.

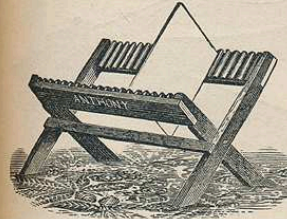
SCOVILL'S ADAPTABLE NEGATIVE WASHING BOXES.—GUARANTEED NOT TO RUST.

The 8 x 10 Adaptable Box has the desirable feature of being arranged so that plates 6½ x 8½, 5 x 8 and 4 x 5 size can be washed in it in addition to the 8 x 10 size.

8 x 10 Adaptable Washing Box, Price, \$2 75

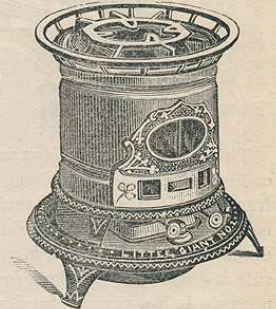
FOLDING NEGATIVE RACK.

A convenient and inexpensive dark-room accessory.—PRICE 50c.



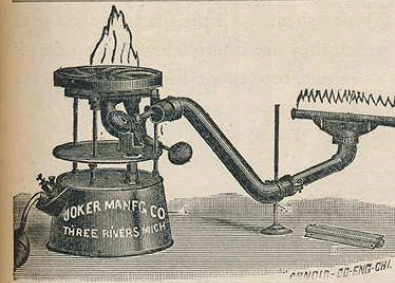
COAL OIL STOVES.

Summer Queen, No. 2, two-burner, 3	
inch flame, - - - - -	\$2 25
Florence, one-burner, 3 inch flame,	1 75



ENTREKEN LARGE BURNISHER HEATER.—VERY FINE.

Price each, - - - - \$2 50



JOKER HEATER.—PRICE, \$7 00

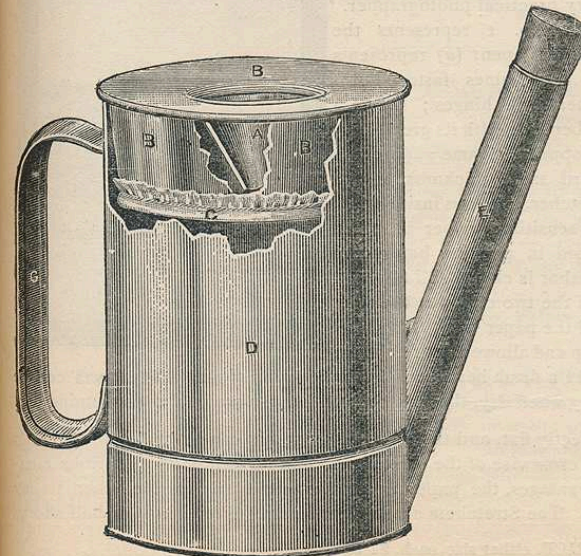
For Description see page 61.

PEERLESS VARNISH POT AND FILTER.

NINETEEN HUNDRED SOLD IN LESS THAN TEN MONTHS.

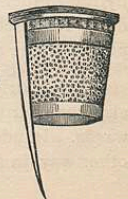
It is a tin pot, as shown in cut, with a filter and funnel in the top; rubber stopper in spout. Put your varnish in clean, flow your plates and drain surplus varnish back through the funnel in top, and you will never be trouble with specks or dirt in your varnish. Pot holds sixteen ounces.

PRICE, each, \$0 50



SCOVILL'S EFFICIENT PLATE LIFTER.

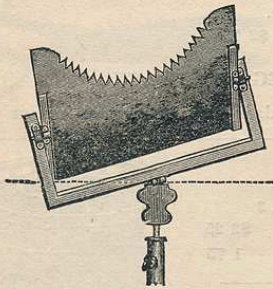
Price, - 15c.



MISCELLANEOUS--Continued.

BIRD'S PATENT VIGNETTER.

A LONG FELT WANT. JUST OUT.

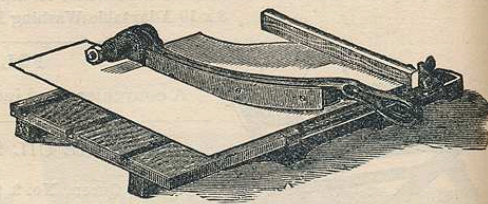


This is used between lens and subject, in an ordinary head rest; is hung in a swinging frame, which has also a lateral motion; can be quickly adjusted. The side shown in the cut is painted in clouded vignette; the other side is finished in jet black for the black vignettes. It is a very useful device.

PRICE, each, \$2 50

PHOTO CARD AND PLATE CUTTER.

A Complete Machine, with Adjustable Gauges and latest improvements.



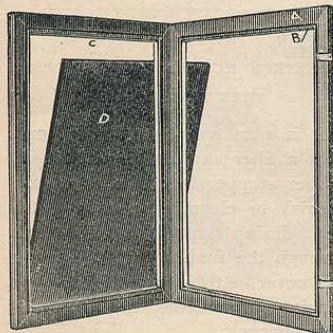
Photographers will find this a grand thing for cutting albumen paper card board and ferrotype plates, cutting the latter perfectly straight, without any curl.

The advantages of this cutter are: with 12 in. blades it will cut any size sheet. All the parts are made to gauges, by which they are interchangeable, so that if any part is worn out, broken or lost, a duplicate can be ordered.

PRICE, \$10 00

KUHN'S SENSITIZED PAPER STRETCHER AND DRYER.

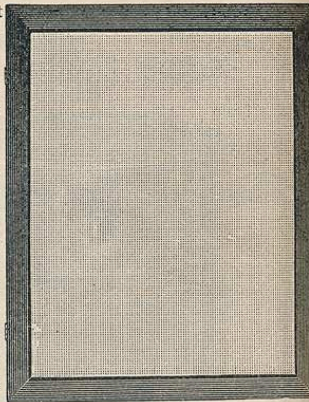
PATENT ALLOWED.



NO. 1.

This simple arrangement cannot but commend itself to every practical photographer.

Cut No. 1 represents the Stretcher open; (a) represents the two frames fastened together with hinges; (b) is a rubber strip with its groove; (c) in opposite frame; (d) is a board same thickness as the Stretcher, and lays inside while the sensitized paper is being placed in position before the Stretcher is closed and fastened with the two clasps at the side,



NO. 2

as shown in Cut No. 2. By this method the paper is held in place by the rubber strip (b), and is then set up and allowed to dry. When dry it is perfectly smooth (in fact just like a drum head), and has a beautiful gloss. Two sheets can be put up in the Stretcher at the same time; when dry, the Stretcher and paper are put in the fuming box.

Paper dried in this manner lies perfectly flat, and therefore better prints can be made, and you can also cut your paper either lengthwise or crosswise of the sheet, as it neither stretches or shrinks afterwards. In addition to all the above advantages, the paper is much more easily handled than in any other way, in fact, it is no trouble at all. The Stretchers are made in two sizes for whole or half sheets.

PRICE, either size, each, \$1 50

Miscellaneous--Continued.



Fig. 1.



Fig. 2.

Our Own Gold Paint, Fig. 1, complete with brushes \$0 25
 Our Own Gold Leaf Paint, Fig. 2, complete with Brushes, per bottle 20
 Ruby's Royal Gilding, complete, per bottle ... 50

This splendid Gilding is deservedly popular, and never failed to afford the fullest satisfaction.

Its color is that of English Sterling Gold. Any one can use it.



THE NEW ACME WATER COLORS AND ACME MEDIUM.

(TRADE MARK.)

FOR COLORING AND PAINTING PHOTOGRAPHS, ARTOTYPES, ENGRAVINGS; FOR DRAWING AND PAINTING FLOWERS, LANDSCAPES, ETC., AND FOR ARCHITECT'S USE.

The Tinting colors are Rose, Scarlet, Flesh, Gold, Violet, Blue, Magenta, Brown, Neutral Tint, Yellow and Green.

The Surface colors are Blue, Vermillion, Green, Yellow, Brown, Black and White. Full, plain and explicit instructions accompany each box.

The New Acme Water Colors have recently been greatly improved. A beautiful Palette attachment of four divisions has just been added without extra expense to the purchaser. The Acme Colors are not a liquid. They are put up in cakes in moist form, eighteen colors, eleven tinting and seven surface colors, constituting the large box. In matters of Permanency, Quality, Quantity and Convenience they are unequalled. No freezing, spilling or precipitating, and many times cheaper than Liquid Colors.

PRICE, per box new style \$2 50
 PRICE, for Gloss Compressed 50

MISCELLANEOUS--Continued.

CHINESE COLORS.

The old reliable, and with many are still the favorite. They come 12 bottles in a box, as follows:

Photo Carmine,	Flesh,	Green,	Violet,	Purple,	Brown,
" Blue,	Scarlet,	Yellow,	Gold,	Orange,	Solferino.
Per Box, - - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
Per Bottle, - - - - -	15c.	| Carmine, - - - - -	25		

EGYPTIAN CHEMICAL COLORS.

Triple 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 like-like picture in the world!

Box No. 2 contains 9 one ounce bottle of colors, polished wood boxes..... Price, \$2 50

RETOUCHING PENCILS.



A. W. FABER'S PENCILS.

WITH SIBERIAN LEAD FROM THE ALBERT MINE. FOR RETOUCHING, &c.

We give the following scale for convenience in ordering:

BBBBBB—Extra Soft and extra black.	F—Middling, No. 3.
BBBB—Very soft and very black.	H—Hard.
BBB—Very soft and very black.	HH—Harder, No. 4.
BB—Soft and very black, No. 1.	HHH—Very hard.
B—Soft and black.	HHHH—Very hard.
HB—Hard and black, No. 2.	HHHHH—Extra hard.

The above scale applies to both the pencils in woods and LEADS only, so be sure to state which is wanted.

The four degrees of pencils bearing the numbers 1, 2, 3 and 4 from a collection especially suited for ordinary use; these are the finest grade of pencils made.

PRICES.

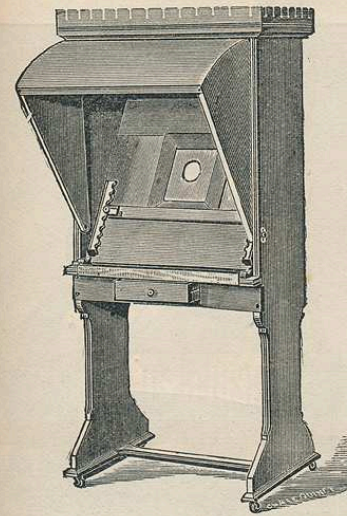
Pencils, 6B to 6H.....each,	\$o 15.....per dozen,	\$1 25
Leads only, 6B to 6H.....	" 15.....	" 1 25
Smith's Metal Pencil.....	" 25.....	" 2 50
Crowell's " ".....	" 25.....	" 2 50
Gilbert's " ".....	" 25.....	" 2 50
Faber's Holder for Lead's, including one Lead.....each,		25
Pearl Metal Point—just out.....		15



Miscellaneous--Continued.

THE NOVEL RETOUCHING DESK.

A Simple, Complete and Practical Apparatus for the Retoucher.



It embodies all the modern improvements of the Retouching Frame, and supplies many new and invaluable features. It is made of ash, thorough in construction and beautiful in finish.

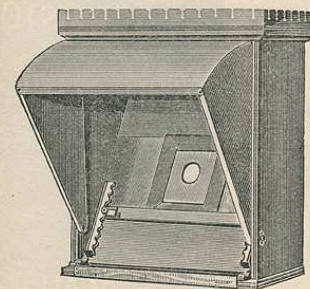
Suitable for any size negative under 25 x 30. Its practical usefulness is only appreciated when seen. It is portable and enables retouchers to work on dark as well as light days, and protects the eyes.

Has a hood which can be removed in or out to darken the space in front and intensify the light through the ground glass cut outs.

The bed on which the negative is laid can be set at any inclination to suit the convenience of the artist.

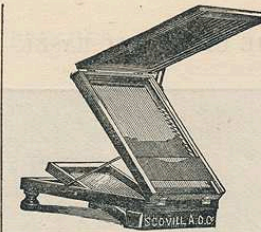
By means of a slide rest the negative may be moved up, down or slant, and held at any desired position.

Price, \$14 00



The Novel Retouching Desk, same as above, without stand and drawer.

Price, \$9 00



AMERICAN OPTICAL CO.'S IMPROVED RETOUCHING FRAMES.

They have all the modern improvements, drawer, mirror, etc., and are warranted.

The slant of mirror, negative, rest and top can be adjusted quickly adjusted at angle wanted, and when not in use shuts up in very portable shape.

For 1/4 to 8 x 10 negatives,	\$2 50
For 1/4 to 11 x 14 " "	7 00

CALCINED FLOUR.

FOR RETOUCHING NEGATIVES.



This is a preparation for grinding negatives for retouching; with it, it is impossible to scratch a film, as there are no gritty particles in it. The retouching is held better, and the pencil works more freely than on pumice-stone or other preparations. The best retouchers recommend Calcined Flour. Put up in tin boxes with perforated tops.

Price, per box, 35c.

MISCELLANEOUS--Continued.

WAYMOUTH'S VIGNETTE PAPERS.
DESIGNS COPYRIGHTED.



These admit of the very best of work being made—and come in three tints. Black for ordinary negatives, yellow bronze for thin, and copper bronze for still weaker ones.
Assorted sizes and colors.

	PER DOZ.
Nos. 1, 2, 3, 4 and 5, for cartes.....	\$0 50
Nos. 6, 7, 11, 12 and 13, large cartes and Victorias.....	75
Nos. 8, 9, 10, 14, 15 and 15½. cabinets and whole size.....	1 00
Nos. 16, 17, 18, half and whole size.....	1 25

GIHON'S INIMITABLE CUT OUTS,
FOR PRINTING THE MEDALLION PICTURES.



Are the very best that are made, and are now without a rival in the market. They are clean cut, most desirable shapes and sizes, and made of non-actinic paper, manufactured specially for the purpose. Each package contains thirty Cut-outs or masks, with corresponding insides, assorted for five differently sized ovals and one arch top.

Price, per package.....\$1 00

CUT-OUTS OR MEDALLION MASKS.
FOR PRINTING THE MEDALLION PICTURES.
PRICE LIST.

Oval Arch Top and Square. Assorted Openings.	
Card Size.....	Per Doz., \$0 15
Victoria Size.....	25
Cabinet Size.....	20
4-4 Size.....	35
8x10 Size.....	50
Panel Size.....	60
Boudoir Size.....	75

RUBBER STOPPERS.

Keep your bottles well corked.

No. 0, price, each, 10c	No. 4, price, each, 3c
" 1, " " 8c	" 4½, " " 3c
" 2, " " 6c	" 5, " " 2c
" 2½, " " 6c	" 5½, " " 2c
" 3, " " 5c	" 6, " " 2c
" 3½, " " 5c	" 6½, " " 2c

Graduated in size from No. 0, 2 in. long, ¼x½ in., to No. 6½, ½ in. long, 1x½ in.

SUNDRIES.

Rubber Gloves, per pair.....	\$1 50 to \$2 00
Rubber Finger Tips, each.....	95
Pile's Silver Test Tubes, each.....	2 00
Hydrometers, single degree, each.....	50
Diamonds, ebony keyed, each.....	3 50
Diamonds, ebony keyed (extra), each.....	4 00
Background Bracket Casters, iron wheel, per set of four.....	50
Shears, per pair, from.....	\$1 00 to 2 00
Dry Colors, in paper boxes, fitted, per box... 1 50	
Dry Colors, in wood boxes, fitted, per box... 1 75	
Egyptian Liquid Colors, per box... \$2 50 and 6 00	
Acme Water Colors, per box.....	2 50
Acme Compound, per bottle.....	60
Gold Saucers, medium, each.....	15
Silver Saucers.....	15c and 25
Indian Ink, Lion's head, per stick.....	25
Indian Ink, common, per stick.....	10
Indian Ink, best, per stick.....	2 00
Rubber Bands, 1 inch, per gross.....	25
Rubber Bands, 1 inch, per oz. box containing about 3 gross.....	50
Rubber Bands, 1 inch, per ¼ pound.....	1 25
Gihon's Opaque, per cake.....	50
French's Silver Ink, for spotting out ferrotypes	35
Darmaline, per bottle.....	25
Enameline, per bottle.....	65
Gilbert's Lubricator, per cake.....	50
Lightning, per bottle.....	50
Aniline Blue, per ½ oz.....	35
Blotting Paper, 19x24, per doz.....	60c to 75
Gold Paint, for repairing frames, per bottle...	25
Steel Glass Cutters, each.....	15
Rubber Focusing Cloth, 1 yard square.....	1 00
Smith's Metallic Pencils.....	25
Pearl Metallic Pencils.....	15
Lace Head Draperies, white or black, each..	25
Resetting Diamonds.....	1 50
Spirit Lamps.....	50

Miscellaneous.--Continued.

SPURR'S TRANSLUCENT SCROLL NEGATIVES.—THE LATEST NOVELTY.

See Advertisement further on for Cut.

These negatives are made on Eastman's American film, opaque centers, print clear, quick and sharp. They are destined to supercede all the cheap paper negatives now on the market as they give an artistic finish that is admired.

Send along your orders for a set of these negatives; fill up your show cases with fresh prints with the scroll border; don't wait for your neighbor to be the first in the field, but be awake to the interest of your customers

Every negative guaranteed perfect. Sent postpaid upon receipt of price.

Cabinet sizes, each, - - - - -	\$0 75	Boudoir sizes, each, - - - - -	1 00
" " per set of seven, - - - - -	5 00	Clouded negatives, 5 x 8, - - - - -	75

OSBORNE'S STATUE PEDESTAL NEGATIVE.



The negative furnished for statue pictures is a paper negative of a pedestal, which can be adjusted to the negative of the subject that you wish to represent as a statue. The subject should be draped in white, have the hair powdered, and be taken on a black or very heavy ground. After the negative is taken and varnished, the film is scraped off around the figure, the body cut off, and the pedestal negative adjusted at the proper height and then printed.

Price for Cabinet or Boudoir size, - - - each, \$1 00

OSBORNE'S PAT. PICTURESQUE FOREGROUNDS.

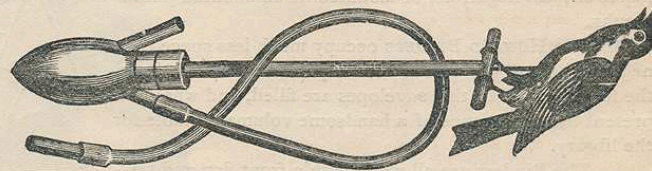
These are negatives to be used by combination printing. A print is first made of the window negative, and then the opening is cut out. Make the negative of the subject to fit in the cut-out, and print in the usual manner of double printing.

5 x 8, suitable for Cabinet, - - - - -	each, \$1 00
6½ x 8½, " " Boudoir, - - - - -	" 1 25
8 x 10, " " Long Panel, - - - - -	" 1 50

FRENCH'S PICTURESQUE FOREGROUNDS, OR FLEXIBLE NEGATIVES.

Cabinet set, 5 x 8 negatives (for small heads), per set of three. - - - - -	\$2 25
Boudoir set, 6½ x 8½ negatives (for ordinary heads), per set of three, - - - - -	2 50
Imperial set, 8 x 10 negatives (for large heads), per set of three, - - - - -	3 00

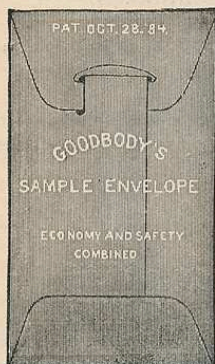
Artificial
Songster.



The above cut represents a new device in the shape of an ARTIFICIAL SONGSTER, designed to attract the attention of the Babies and "catch them." They are certainly an ingenious contrivance, and promise to be very popular. The price places them within the reach of all. No photographer should be without one.

PRICE EACH, 70 CENTS.

MISCELLANEOUS--Continued.



GOODBOY'S PHOTOGRAPH ENVELOPE.

One of the best devices of the mailing or delivery of CARTE DE VISITE and cabinet photographs. Does away with the bother of tying with strings, and the risk of trusting valuable mail matter to the uncertainty of rubber bands. Order a sample lot and test their value.

Carte de Visite, per 1,000 \$4 50 | Cabinet, per 1,000, \$6 00

BALLARD'S CLASP ENVELOPES.

Very handy and strong. The little clasp is slipped into the eyelet, and the work is finished.

Carte de Visite, per 1,000, \$6 75 | Cabinet, per 1,000, \$8 25

MANILA (END FLAP.) EXTRA HEAVY.—No. 40.—PRICE ADVANCING.

Card Size.....per 1000, \$1 50	Panel size.....per 1000, \$3 75
Cabinet size....." 2 50	Boudoir size, very heavy, No. 76, " 8 40

NEGATIVE PRESERVERS.

Consist of a stout Manilla paper envelope, one end open and cut to admit the thumb and forefinger in removing the negative, and having on the front three printed lines for the number, name and remarks.

PRICES OF NEGATIVE PRESERVERS.

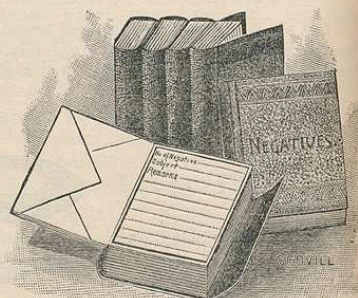
For 1/4 negatives, 100, 30c... \$1 00, \$2 70	For 5 x 7 negatives, 100, 45c... \$4 00
" 1/2 " " 35c... " 3 15	" 6 1/2 x 8 1/2 " " 50c... " 4 70
" 4 1/2 x 6 1/2 " " 40c... " 3 35	" 8 x 10 " " 65c... " 6 20
" 5 x 8 " " 45c... " 4 10	
For negatives 10x12,..... \$1 00, \$1 60	For negatives 14x17..... \$1 00, \$3 00
" " 11x12..... " 2 00	

THE HOWARD NEGATIVE PRESERVER AND BINDER.

These convenient Binders consist of heavy, finely surfaced envelopes (Negative Preservers), secured in cloth covers, and printed for reference, as shown in cut, and are designed for the preservation and classification of either paper or glass negatives, or mounted or unmounted photographs.

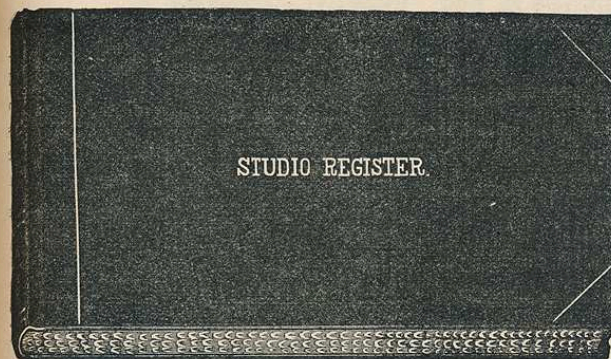
The HOWARD BINDERS occupy much less space than negative boxes. By means of the patent adjustable back, the file enlarges as the envelopes are filled, and when full present the appearance of a handsome volume suitable for the library.

The Binders are all made with a front flap and tie.



No. 1, for 4 1/4 x 5 1/2, 4 x 5, and 3 1/4 x 4 1/4 negatives or prints.....	\$0 50
No. 2, for 5 x 8, 5 x 7, and 4 1/4 x 6 1/2 " ".....	60
No. 3, for 6 1/2 x 8 1/2, " ".....	75
No. 4, for 8 x 10, " ".....	1 00

Miscellaneous--Continued.



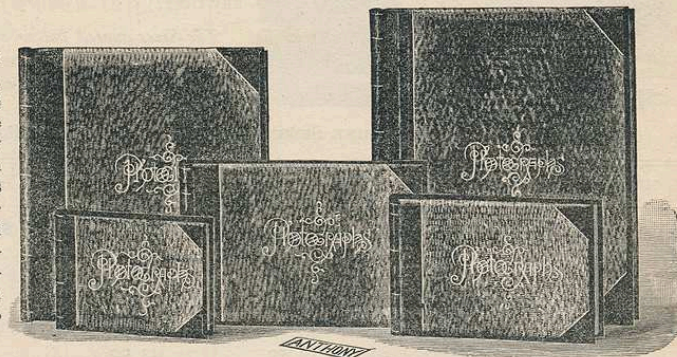
Studio Register.

PRICE LIST.

160 page Studio Register,
3,200 names.....\$2 75

PHOTOGRAPHERS' VIEW ALBUM.

For preserving prints from negatives of one's own work, these Albums form a handsome and interesting addition to the library table. They are very beautifully bound in cloth, with gilt stamp on side, the corners being finished with leather. The purest quality of card board is used in their manufacture, made expressly for mounting photograph, and free from any chemicals injurious to prints.



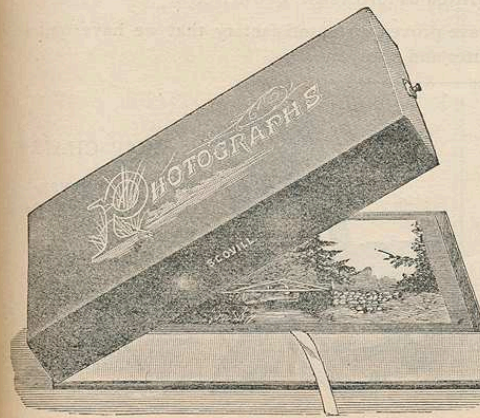
NOTE—After the print is mounted, the margin can be ruled with black or tinted lines, and the name of subject and remarks written beneath. Two sizes made, as follows:
Size of Card, 7x10, for 5x8 Pictures, each, \$1 40 | Size of Card, for 8x10 Picture, each, \$2 40

SCOVILL'S PHOTOGRAPH RECEIVER.

After a fine negative has been made, the next question of importance is how to preserve prints made from it.

SCOVILL'S PHOTOGRAPH RECEIVER was made to hold the unused cards as well as the finished photographs, preserving both so that they may be kept neat and clean. The Receiver is ornamental and will not be out of place on any library table.

No. 1 Scovill's Receiver, with twenty-five 5x8	
No. 26 Collins' Boudoir cards, - -	\$1 20
No. 2 Scovill Receiver, with twenty-five 6 1/2 x 9 1/2	
No. 26 Imperial Collins' Cards, - -	1 60



MISCELLANEOUS--Continued.

HOLMES' HAND STEREOSCOPES.

ALL WITH BRASS SCREW OR FOLDING HANDLE.
LENSES WARRANTED.

- No. 0 1/2 Blk, Wal, Fold. Handle Imit. R. W.
Hood 33x33 Lens.....\$4 00
No. 1 Cherry Folding Handle, Cherry Pol.
Hood 35x35, Lens..... 5 00
No. 2 Blk Walnut, Walnut Hood, 25x35 Lens 6 00
No. 3 " Rosewood " 35x35 " 7 00

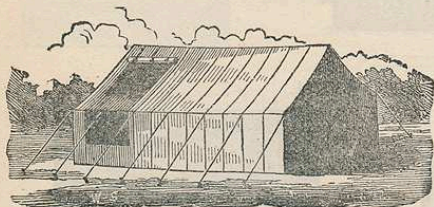
GRAPHOSCOPE.

The Drawer affords a very convenient receptacle for Views (keeping them free from dust) and opens from either side of the Grapho., which, with White Holly Trimmings and Sliding Lens, leaves nothing to be desired to form a neat and complete style at a very low price.

Price, Each.....\$4 00

TENTS, COTS AND CHAIRS.

FOR TRAVELING PHOTOGRAPHERS.



Tents have been steadily advancing for six months and these prices are for to-day only, and may be changed any time.

The Sizes quoted below are made so as to taken even widths of Goods.

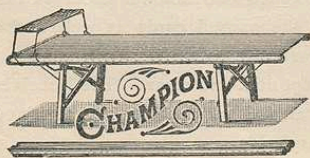
PRICE LIST OF MACHINE SEWED TENTS, COMPLETE WITH POLES, PINS, &C.

SIZE.	WALL	8 oz. W. Pt.	10 oz. W. Pt.	10 oz. U. S.	12 oz. U. S.	LESS POLES AND PINS.
12 X 19	6 ft.	\$24 00	\$28 00	\$34 00	\$38 00	\$2 50
12 X 21	6 "	28 00	31 00	38 00	44 00	2 75
12 X 24	6 "	30 00	35 00	41 50	47 00	3 00
14 X 21	6 "	30 00	35 00	41 50	47 00	2 75
14 X 24	6 "	34 00	38 00	44 00	51 00	3 00
14 X 30	6 "	42 00	46 50	55 00	64 00	3 50
16 1/2 X 21	6 "	32 00	36 50	43 00	49 00	2 75
16 1/2 X 24	6 "	36 50	41 50	48 25	55 00	3 00
16 1/2 X 30	6 "	45 00	49 00	57 50	67 00	3 50
18 X 33	6 "	50 00	57 00	65 00	75 00	4 00

Don't buy a tent elsewhere until you have written us for LATEST QUOTATIONS.

The dark rooms made by the tent makers have proven so unsatisfactory that we have quit selling them. You can make your own dark room better and cheaper.

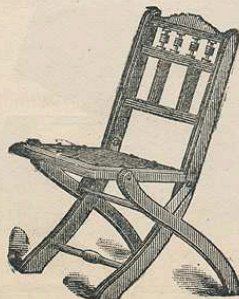
COTS.



Common Folding.....each, \$1 50

Champion Folding, best made,(see cut) " 2 25

CAMP CHAIRS.



Ordinary Canvas seat....each, \$0 75
Champion, all wood, very strong, each, (see cut)..... 1 25
Campstools, ordinary..... 65

34
8.40
80.60

ARTISTS' MATERIALS.

WINSOR & NEWTON'S ENGLISH CANVAS.

IN ROLLS OF 6 YARDS.

- 27 inches wide, per yard, plain\$1 20
50 " " " 1 35
66 " " " 1 50

AMERICAN PREPARED CANVAS.

EXTRA QUALITY.

IN ROLLS OF 6 YARDS.

- 27 inches wide, per yard, best English linen, \$1 10
30 " " " " 1 20
36 " " " " 1 40

WINSOR & NEWTON'S WATER COLOR LIQUIDS.

- Ox Gall, prepared, in pots, per pot 25c
Permanent Chinese White, per bottle..... 30c
Liquid India Ink, per bottle..... 30c
Gold Ink, per bottle..... 50c

WINSOR & NEWTON'S WATER COLOR BOXES.

- Mahogany sliding lid box, with brushes and 12 half cakes, each..... \$2 50
Mahogany sliding lid box, with brushes and 18 half cakes, each..... 3 75
Mahogany sliding lid box, with brushes and 24 half cakes, each..... 4 75

RED SABLE ARTISTS' BRUSHES.

- No. 1 and 2\$0 12
" 3 and 4 15
" 5 and 6 20
" 7 and 8 25
" 9 30
" 10 35
" 11 38
" 12 40

RUSSIA SABLE BRUSHES.

- No. 1.....each 7cper dozen, \$0 60
" 2..... " 7c " 65
" 3..... " 7c " 75
" 4..... " 10c " 85
" 5..... " 10c " 1 00
" 6..... " 10c " 1 10
No. 7.....each, 15c. No. 10....each, 20c
" 8..... " 15c. " 11... " 20c
" 9..... " 15c. " 12.... " 20c

FRENCH BRISTLE FOR OIL PAINTING.

Flat, in tin, polished handles. Made of the finest bleached bristles.

- No. 1, price each, 7c. per dozen, \$ 60
" 2, " " 7c. " 70
" 3, " " 7c. " 75
" 4, " " 10c. " 80
" 5, " " 10c. " 85
" 6, " " 10c. " 90
" 7, " " 12c. " 95
" 8, " " 15c. " 1 00
" 9, " " 15c. " 1 10
" 10, " " 15c. " 1 10
" 11, " " 15c. " 1 20
" 12, " " 15c. " 1 20

CHINA PALETTES.

SQUARE, OBLONG OR OVAL.

- 5 inches.....each, 30c. per dozen, \$3 25
6 " " 35c. " 3 75
7 " " 40c. " 4 50
8 " " 50c. " 5 00
9 " " 60c. " 6 50
10 " " 70c. " 7 50

ROUND BADGER HAIR BLENDERS.

WIRE BOUND, BLACK POLISHED HANDLES.

- No. 1each, 25c.per dozen, \$2 25
" 2..... " 30c. " 3 00
" 3..... " 45c. " 4 80
" 4..... " 60c. " 7 00
" 5..... " 70c. " 8 00
" 6..... "\$1 00 " 11 00

STEEL PALETTE KNIVES.

- No. 2, English, cocoa or ebony handles, 3 inch, each, 25c
" 2, " " 3 1/2 " " 30c
" 2, " " 4 " " 30c

CRAYONS.

No. 1, HARD; No. 2, MEDIUM; No. 3, SOFT.

- Conte, square, black per dozen, 20c.....each, \$1 65
" " white " 30c..... " 1 65
Girault, sauce, velvet, black, in foil, per stick, 5c
Conte, sauce, per stick, 10c,..... per dozen, 75c

CRAYONS IN WOOD.

- No. 0, Extra Fine, each, 10c.per dozen, 75c.
" 1 and 2 " 7c. " 60c.
" 3 extra Fine " 10c. " 95c.

2800
20.00

41
40.00

Artists' Materials--Continued.

CRAYON HOLDERS.

Brass, 5 inch.....each, 7c.per dozen, 60c
 " 6 " " 7c. " 65c

SOFT PASTELS.

No. 6— $\frac{1}{2}$ size boxes, 28 crayons, white,	Per Box.	\$ 60
" 6— $\frac{1}{2}$ " 28 " black,	60	
" 6— $\frac{1}{2}$ " 28 " gray assorted, ...	60	
" 6— $\frac{1}{2}$ " 28 " flesh assorted, ...	60	
" 6— $\frac{1}{2}$ " 28 " assorted colors, ...	60	
" 5— $\frac{1}{2}$ " 46 " assorted colors, ...	1 00	
" 3— $\frac{1}{2}$ " 60 " assorted colors, ...	2 25	
" 2—Full " 138 " assorted colors, ...	4 00	

HARD PASTELS.

ORDINARY; IN ROUND PAPER BOXES.

12 shades, per box..... 15c
 18 " " 20c
 24 " " 25c
 30 " " 30c

GRAY PAPER STOMPS.

No. 1 .....each, 5c. ....per dozen, 20c
" 2 " 5c. " 25c
" 3 " 5c. " 30c
" 4 " 5c. " 35c
" 5 " 7c. " 40c
" 6 " 7c. " 45c
" 7 " 10c. " 50c
" 8 " 10c. " 60c

YELLOW LEATHER STOMPS.

No. 1 .....each, 10c. ....per dozen, \$0 70
" 2 " 10c. " 75
" 3 " 10c. " 90
" 4 " 12c. " 1 00
" 5 " 12c. " 1 25
" 6 " 15c. " 1 50
" 7 " 20c. " 1 70
" 8 " 25c. " 2 05

WINSOR & NEWTON'S OIL COLORS IN TUBES.

The following are 95 cents per dozen; 10 cents per tube:

Antwerp Blue,	Cremitz White,
Asphaltum,	Cassel Earth,
Blue Black,	Emerald Green,
Burnt Umber,	Flake White,
Burnt Sinnea,	Indian Red,
Caledonian Brown,	Indigo,
Chrome Green,	Ivory Black,
Chrome Yellow,	Jaune Brilliant,
Cologne Earth,	Lamp Black,
Crimson Lake,	Light Red,

Megilp,	Scarlet Lake,
Naples Yellow,	Sugar of Lead,
Permanent Blue,	Terre Verte,
Prussian Blue,	Venetian Red,
Purple Lake,	Vandyke Brown,
Raw Sienna,	Yellow Lake,
Raw Umber,	Yellow Ochre,
Silver White,	

The following are \$2 40 per dozen:

Chinese Vermillion,	English Vermillion,
Brown Madder,	Geranium Lake.

The following are \$3 60 per dozen:

Carmin No. 2,	Scarlet Vermillion,
Cobalt Blue,	Madder Lake,
French Ultramarine,	Rose Madder,
Strontian Yellow,	Pink Madder,

The following are \$6 00 per dozen:

Carmin,	Cadmium Yellow, deep,
Cadmium Yellow,	Indian Yellow,
Cadmium Yellow, light,	Purple Madder.

WINSOR & NEWTON'S WATER COLORS.

FINELY PREPARED ENGLISH, MOST IN HALF-PANS.

The following are 15 cents per half-cake or half-pan; \$1 65 per dozen:

Antwerp Blue,	Ivory Black,
Bistre,	King's Yellow,
Blue Black,	Lamp Black,
Brown Ochre,	Light Red,
Brown Pink,	Naples Yellow,
Burnt Umber,	Neutral Tint,
Burnt Sienna,	Prussian Blue,
Chinese White,	Raw Sienna,
Chrome Yellow,	Raw Umber,
Dragon's Blood,	Sap Green,
Emerald Green,	Terre Verte,
Flake White,	Venetian Red,
Indigo,	Vandyke Brown,
Indian Red,	Vermillion,
Italian Pink,	Yellow Ochre.

The following are 25c. per half-cake or half-pan:

Brown Madder,	Mars Yellow,
Constant White,	Purple Lake,
Cerulean Blue,	Sepia,
Crimson Lake,	Scarlet Vermillion,
Indian Yellow,	Scarlet Lake.

The following are 30c. per half-cake or half-pan:
 Cobalt, Orange Vermillion.

The following are 55c. per half-cake or half-pan:
 Cadmium Yellow, Pink Madder,
 Carmine, Rose Madder.
 Lemon Yellow,

Artists' Materials--Continued.

DRAWING PAPERS—IN ROLLS.

Thin Steinback, white, 54 in. wide, per yard,	30c
Thick " " " " " " " "	45c
Universal, light primrose, 56 in. wide, " "	45c
Tracing Paper, per sheet.....	10c
Tracing Cloth, per yard, 30 inches wide....	40c
Transfer Paper, any color, per sheet.....	15c

MONOCHROMATIC AND PASTEL BOARDS

PREPARED FOR PASTELS.

No. 10—18 x 22, per dozen.....	\$6 25
No. 12—20 x 24, "	7 25
No. 15—21 x 26, "	7 75
No. 10—24 x 29, "	9 60

INK AND PENCIL ERASERS.

	Each.	Dozen.
Faber's Ink Eraser, first quality small, 10c....	\$0 75	
" " " " large, 15c....	1 35	
Faber's Ink and Pencil Eraser, com- combined, set in wood.....	15c....	1 65

RUBBER ERASERS AND BLENDEES.

(NIGRIVORINE.)

Small, pointed both ends, each, 7c.....	doz. \$0 75
Medium " " " 10c.....	75
Large " " " 12c.....	1 00

INDIA INK.

Lion Head, oval, per stick..... 25c



PANTIGRAPHS.

FOR REDUCING AND ENLARGING DRAWINGS.

This is a simple mechanical apparatus, improved and perfected, which enables any person to do at once that which would require a long course of instruction and practice to accomplish in the usual way.

DIRECTIONS.—The foot of the instrument is fastened to the drawing board on the left. To the right is fastened the drawing paper, and at the left of this is fastened the copy to be drawn from. The steel point rests on the picture or other object to be copied, and by guiding the point over the lines and shadings of the picture, the pencil in the hand, having a corresponding movement, copies as fast

as the steel point traces the picture. By putting the screw eyes in No. 4 on all the bars enlarges the copy four times. To enlarge the drawing ten times, place the screws in No. 10 on all four bars. If it is desired to make a very large drawing from a small copy, take a sketch upon a small sheet, then use the sketch to enlarge from.

No. 1, black walnut, arms 13 inches...each,	\$0 20
No. 1, black walnut, arms 13 inches, per doz.	2 00
No. 1 $\frac{3}{4}$, hard wood, arms 19 inches, brass mounted, in box, per dozen.....	12 00
No. 3, hard wood, arms 19 inches, brass mount- ed, in box, per dozen.....	22 50
No. 2, hard wood, arms 19 inches, brass mounted, in box, per dozen.....	27 00

All numbers of No. 2 are stamped black, making them more distinct than those of No. 3.

PROPORTIONAL DIVIDERS.

Brass, 6 inches, in case, each.....\$2 50

WINSOR & NEWTON'S OILS.

	Per Bottle.	Per Dozen.
Drying, pale, in round 2 oz. bottles,....	25c	\$2 75
Linseed, in round 2 oz. bottles.....	25c	2 40
Nut, in round 2 oz. bottles.....	25c	2 75
Poppy, in round 2 oz. bottles.....	25c	2 75

VARNISHES.

	Per Bottle.	Per Dozen.
Copal, best, 2 oz. bottles.....	\$1 25	\$2 75
Damar, best, 2 oz. bottle.....	25	2 40
Mtstic, double strength, W. & N., in round 2 oz. bottles.....	1 15	13 50
Picture Mastic, W. & N., in round 2 oz. bottles.....	90	10 50
Picture Copal, W. & N., in round 2 oz. bottles.....	50	5 40

FIXATIF.

FOR FIXING CRAYON.

Price, per bottle,.... 20c | Price, per dozen, \$1 00

THUMB TACKS.

$\frac{3}{8}$ inch, brass, per dozen.....	\$0 20
$\frac{3}{8}$ inch, brass, per 100.....	1 00

PICTURE MATS.

We have a very large line of fancy mats; cuts of many of which we have been unable to obtain, but will endeavor to make description of the best patterns as lucid as possible.

WHITE PAPER MATS, WITH GILT LINES.

8x10 OUTSIDE WITH THE FOLLOWING OPENINGS:

Oval, 5x7 and Cabinet; Square, 3 3/4 x 5 1/4, 4 1/2 x 6 1/2, 5x7, 5 1/2 x 7 1/2.

Price, per 100.....\$1 05 per dozen, 15c

10x12 WITH THE FOLLOWING OPENINGS:

Oval, 5x7, 6x8, 6 1/2 x 8 1/2, 7x9, 8x10; Square, 5x7, 6x8, 6 1/2 x 8 1/2, 7x9, 8x10.

Price, per 100.....\$1 30 per dozen, 20c

BLACK PAPER MATS, GILT LINES.

8x10 WITH THE FOLLOWING OPENINGS:

Oval, 4 1/2 x 6 1/2, 5 1/2 x 7 1/2.

Price, per 100.....\$2 25 per dozen, 30c

DEEP GOLD BEVEL MATS.

Pebble Face, Burnished Bevel, No. 217 or No. 140.

8x10 OUTSIDE, OVAL AND SQUARE OPENINGS, AS FOLLOWS:

3 3/4 x 5 1/4, 3 3/4 x 6 1/2, 4 1/2 x 6 1/2, 5x7, 5 1/2 x 7 1/2, 6x8, per dozen.....\$2 00

10x12 OUTSIDE, OVAL AND SQUARE OPENINGS, AS FOLLOWS:

5x7, 5 1/2 x 7 1/2, 6x8, 6 1/2 x 8 1/2, 7x9, 7 1/2 x 9 1/2, 8x10, per dozen.....\$3 50

11x14 OUTSIDE, OVAL AND SQUARE OPENINGS, AS FOLLOWS:

7x9, 7 1/2 x 9 1/2, 9x11, 8x10, 8x11, 8 1/2 x 11 1/2, per dozen.....\$4 80

14x17 OUTSIDE, OVAL AND SQUARE OPENINGS, AS FOLLOWS:

10x13, 10x12, 11x14, 9 1/2 x 11 1/2, 9x11, per doz., \$7 20

16x20 OUTSIDE, OVAL AND SQUARE OPENINGS, AS FOLLOWS:

12x15, 13x16, per dozen.....\$9 00

18x22 OUTSIDE, OVAL AND SQUARE OPENINGS, AS FOLLOWS:

15x19, 13x17, 13x16, per dozen.....\$10 80

20x24 OUTSIDE, OVAL AND SQUARE OPENINGS, AS FOLLOWS:

15x19, 17x21, per dozen.....\$12 00

THIN PEBBLE MATS, GRAY FRONTS.

No. 150.

8x10, OVAL, SQUARE AND ARCH OPENINGS.

3 3/4 x 5 1/4, 4x6, 4 1/2 x 6 1/2, 5x7, 5 1/2 x 7 1/2, 6x8, price, per 100.....\$2 00 per dozen \$0 25

10x12, OVAL, SQUARE AND ARCH OPENINGS.

6x8, 6 1/2 x 8 1/2, 7x9, 7 1/2 x 9 1/2, 8x10, price, per 100.....\$3 00 per dozen, \$0 40

11x14, OVAL AND SQUARE OPENINGS.

6 1/2 x 8 1/2, 8x10, 8x11, 8 1/2 x 11 1/2, 9x12, price, per 100.....\$4 50 per dozen, \$0 60

14x17, OVAL AND SQUARE OPENINGS.

9x12, 10x12, 10x13, 11x14, price per 100.....\$7 00 Per dozen.....\$0 90

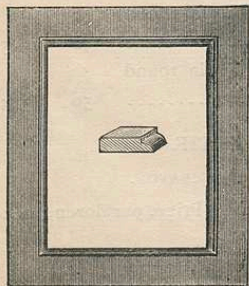
16x20, OVAL AND SQUARE OPENINGS.

10x13, 13x16, per dozen.....\$1 20

18x22, OVAL AND SQUARE OPENINGS

13x16, 15x19, per dozen.....\$1 80

EXTRA HEAVY SQUARE WHITE MATS.



Design of X13 and X19.

These are now all the rage and are the neatest mats on Photographs or Crayons made. They are made of wood mat moulding, faced with white card board, so as not to show joining of corners. Notice the prices. All square opening.

(See Prices on next Page.)



Design of X49 and X55.

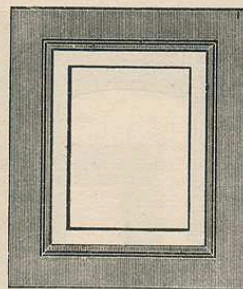
MATS--Continued.

PRICE LIST OF EXTRA HEAVY SQUARE WHITE MATS.

X19, 11 x 14, heavy, each,	\$0 33
X19, 14 x 17, " "	43
X19, 16 x 20, " "	50
X19, 18 x 22, " "	55
X19, 20 x 24, " "	60
X19, 22 x 27, " "	80
X13, 22 x 27, " "	95
X13, 25 x 30, " "	1 25
X49, 14 x 17, double extra heavy step front,	60
X49, 16 x 20, " " "	65
X49, 18 x 22, " " "	75
X49, 20 x 24, " " "	90
X55, 22 x 27, " " "	1 25
X55, 25 x 30, " " "	1 50

x19 have 2-inch margin; x13 3-inch margin; x49 2 1/2-inch margin; x55 3-inch margin. So that any one can easily ascertain the opening of each mat.

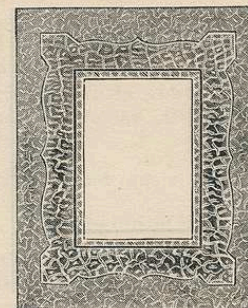
THE NEW ENGLISH DOUBLE MAT.



No. 2595.

Top is made of heavy Pearl card board, two fine pressed lines with beveled edge. The inside is made Egg Shell Torschon, the opening also beveled. It is the neatest Mat in the market for the price. Just out.

Openings.	Price.
8 x 10, ... 3 3/4 x 5 1/4, 5 x 7, 4 1/4 x 6 1/2, 5 1/2 x 7 1/2, and 6 x 8.....	\$1 30
10 x 12 square, 6 x 8 and 7 x 9	1 75
11 x 14 " 7 1/2 x 10 1/2	2 00
14 x 17 " 10 x 13 " 11 x 14	2 25
16 x 20 " 12 x 16	3 00
18 x 22 " 14 x 18 " 15 x 19	3 25
20 x 24 " 15 x 19 " 16 x 20	4 80
22 x 28 " 17 x 21 " 18 x 23	6 00



No. 141.

English brocaded card-board, fancy overlaid top, cabinet size. 8x10, per dozen,.....60c.

NO. 53, MAT.

Made of similar material to No. 141, but much finer. Color, gray outside with white lining and gilt edges. This if one of the neatest mats made. 8x10, oval, square or arch, 5x7 opening, doz., 65c

NO. 132 MAT.

Same in construction as No. 53, but has broad maroon flock paper lining and another narrow white lining inside of the maroon. A beautiful mat for the price.

8x10, oval, square and arch, 5x7 opening, per dozen.....\$0 75

NO. 248 MAT.

Similar material to that of No. 141, and No. 405, but different pattern, gilt edges, square and oval.

8x10, 5x7 opening,.....per dozen, 65c
8x10, 5 1/2 x 7 1/2 opening.....per dozen, 65c

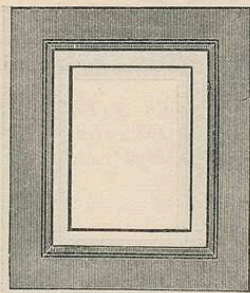
Nos. 141, 241, 405, 53, 132 and 248 are the neatest and mats for the money made.

No. 241.—SEE CUT 2595.

same in appearance as 2595, but not as heavy and outside piece has gilt edge inside, 8x10 square and oval, 5-7 opening.

Price, per dozen, \$1 00.

MATS--Continued.

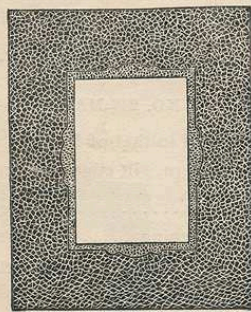


ENGLISH TORCHON MATS.

No. 2543-x

Heavy pearl gray card board face, with engraved lines deep white torchon bevel. The cheapest and most salesable Mat ever offered. We have it square and oval openings only.

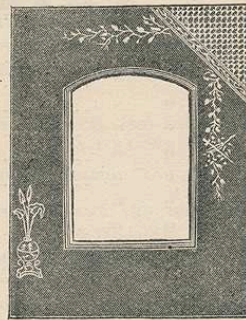
Size.	Size Opening.	Per Doz.
8 x 10.....	5 x 7,	.....\$2 00
10 x 12.....	7 x 9,	..... 3 00
11 x 12.....	8 x 11,	..... 4 20
14 x 17.....	10 x 13, 11 x 14	..... 4 80
16 x 20.....	12 x 16, 13 x 17	..... 5 40
18 x 22.....	14 x 18, 15 x 19	..... 6 60
20 x 24.....	16 x 20, 17 x 21	..... 7 20
22 x 28.....	17 x 21, 17 x 23	..... 7 80
25 x 30.....	21 x 26,	..... 9 00



No. 405.

Fancy gray pebbled front, maroon inside edge, with buff pebble lining with gilt edge. A pretty mat; very cheap. Cabinet openings, oval, square or arch.

8x10 size.....per dozen, \$0 40

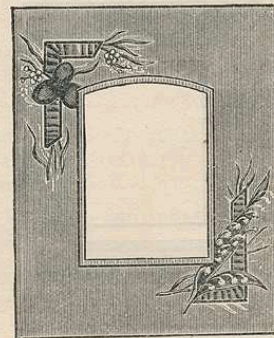


No. 408.

Fine tinted English card decorated in lithograph, as shown; gilt edge, cabinet size, oval, square and arch top openings.

Price, per dozen, 50 cents.

"THE DAISY."



No. 61.

This is the most rapid selling mat in the market. It has silk inlets and elaborate hand-painted floral ornaments in most attractive colors. Do not fail to try this mat. Oval, square and arch.

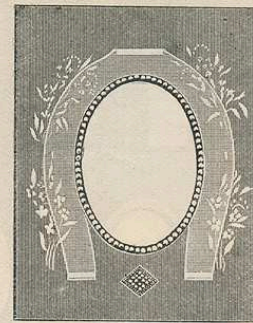
8x10, cabinet opening, per dozen.....\$1 50
8x14, 5x7 opening, per dozen..... 1 50

NO. 124 MAT.

Similarly made to "The Daisy," but not hand-painted and has satin inlets at top and bottom. 8x10, cabinet opening, oval, square and arch, per dozen.....\$1 50

MATS.--Continued.

HORSE SHOE MAT.



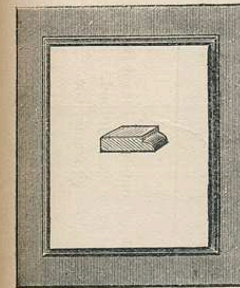
No. 172.

Horse-shoe Mat, Ornamental gold rim around opening, overlaid horse-shoe pattern, rich floral decorations.

8 x 10 Cabinet opening,.....per dozen, \$3 00

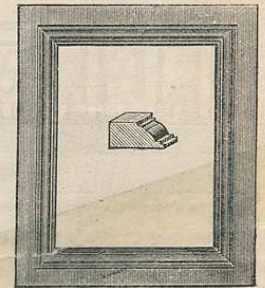
No. 143.—MAT.

This is a gold bevel mat, pebble face, same as No. 217 or 140, but has an additional front of gray



WHITE MAT MOULDING.

Same as used in Mats X19, X49, X13 and X55. Can be made up into mats of any size.



English paper, ornamented with white and black lines, and gilt ornament, inside of which there is another narrow white lining. This extra front is square and one inch in width, making a most attractive mat, where the plain gold bevel is not showy enough.

Per Doz.

8 x 10, oval, arch and square, 5-7 opening, \$3 00

No. 37—DOUBLE MAT.

Etruscan gold bevel with gray English face, made to hold two Cabinet pictures 8 x 10 outside with oval openings,per dozen, \$3 50

No. 294.—MAT.

This is the No. 2543 x Torchon Mat, with an additional lining of white pearls or beads, giving the whole a very rich and heavy appearance. The front is gray English boards, 8x10 oval or square, 5-7 opening.

Price, per dozen, \$4 00.

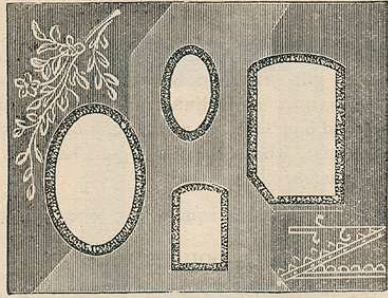
Any of the foregoing styles of mats can be furnished to order, in other sizes and openings, we quote only what we carry regularly in stock.

- 2 in.—No. 19, (same as x19 mat without the card facing,)per foot, 5c
- 3 " ..No. 13, (same as x13 mat without the card facing,)....per foot, 7½c
- 2½ "—No. 49, (same as x49 mat without the card facing,)per foot, 7½c
- 3 "—No. 55, (same as x55 mat without the card facing,)per foot, 9c

We carry this moulding so as to be able to make odd sized mats not carried regularly in stock. Where card board faces are required same as on x19, x55 and others, there will be additional charge for card and cutting. The prices quoted are for the moulding in the piece.

ADDITIONAL FOR JOINING EACH MAT.

2 in. moulding.....	10c
2½ in. moulding.....	13c
3 inch moulding.....	15c

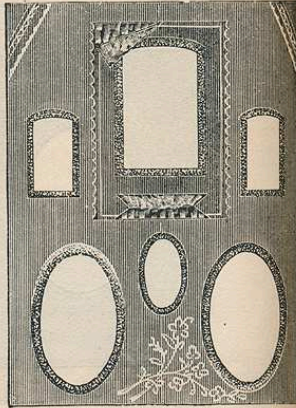


No. 107.

Is an Elegant Overlay and Fancy Cut Paper Show Mat, with two Cabinet and two Card Openings, pretty Hand-painted Corner Ornaments, and Sanded Gold Bevel; very attractive. Size 11 x 14.

Price.....each, 90c.

This is a very beautiful display mat, with 3 card and 3 cabinet openings. Size 14 x 17.
Price, \$1 00.

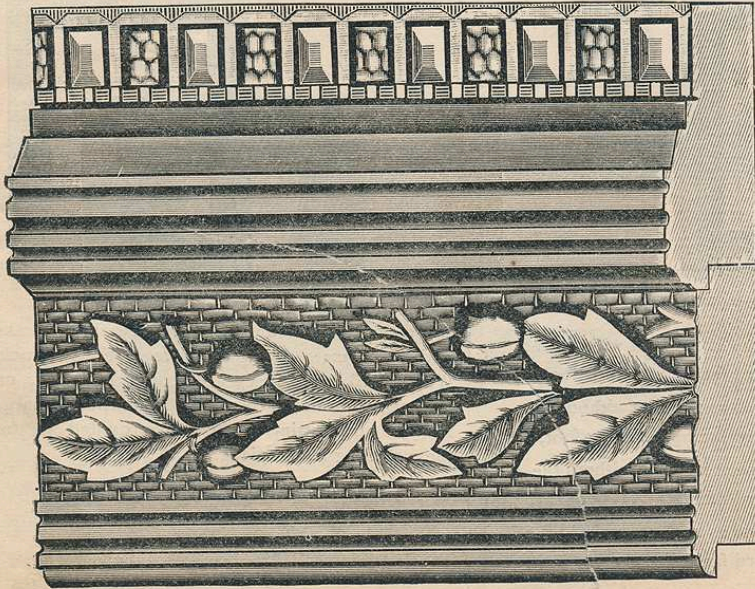


FRAME MOULDING.

We carry a large and assorted line of mouldings which we can furnish either in the stick or made up in frames. The prices quoted are for moulding in the piece, to which an additional charge is added for joining, and fancy corner ornaments when desired.

The amount of moulding in a frame is found by measuring the frame on the OUTSIDE, or by adding EIGHT TIMES THE WIDTH, of the moulding used to the INSIDE MEASUREMENT. Thus a 16 x 20 frame of 3 inch moulding contains exactly 8 feet, there being 72 inches inside measurement, and 24 in. waste in the corners. ALWAYS REMEMBER THIS IN ORDERING.

HARDWOODS.



No. 114a.

Six inch Carved Oak, with bronze ornament on outside. Finest large Oak pattern made. Made in two parts so as to be easily joined. Price per foot, 35c. | Price for joining frame, 60c.

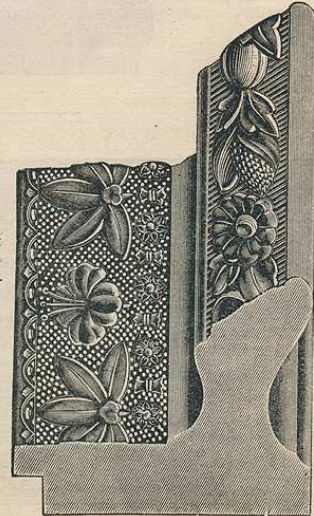
No. 114.—Same as outside piece of the above, making a 3 inch Oak and burnished bronze. Price per foot, 25c. | Price for joining, 30c.

No. 1200, Flain and Quartered Oak.



Highly Polished..... 2-inch 6c | 2½-inch 7½c | 3-inch 9c

No. 4885.—HIGH PATTERN OAKS AND MAHOGANY FINISH



Very highly finished in either English Oak or Mahogany.
4831—1½ inch 7½c
4832—2 " 10c
4833—3 " 15c
Joining at usual prices.

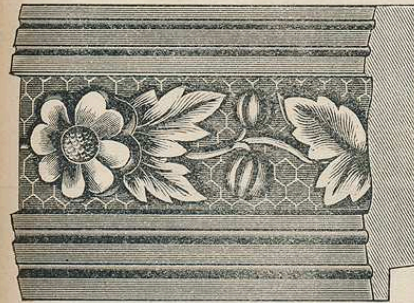
HARDWOODS.—Continued.

No. 1100n.



Oak, Colors as usual. Ornament Imitation Carved.
1½ inchper foot, 6½

No. 1187A.



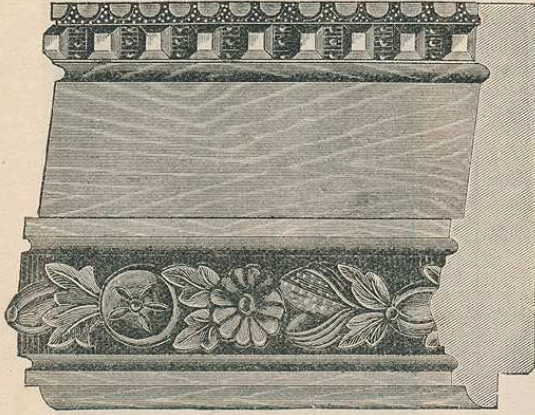
3-inch highly polished English Oak; a beautiful pattern.
Price, per foot..... 9c
" for joining.....18c

No. 1125A.



2½ inch highly polished English Oak.
Price, per foot 7½c | Price, for joining15c

MOULDINGS--Continued.

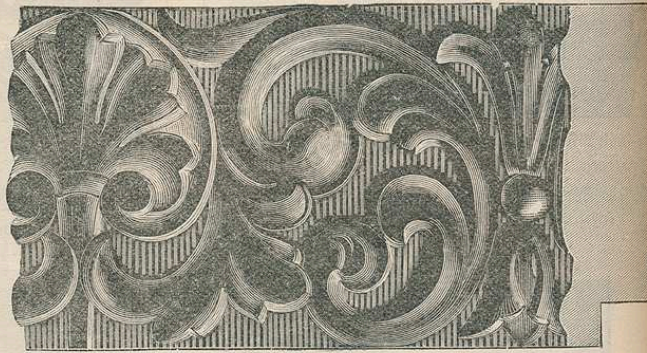


No. 1198.

This is 4 inch oak with outside ornament of burnished bronze; very beautiful.
Price, per foot25c

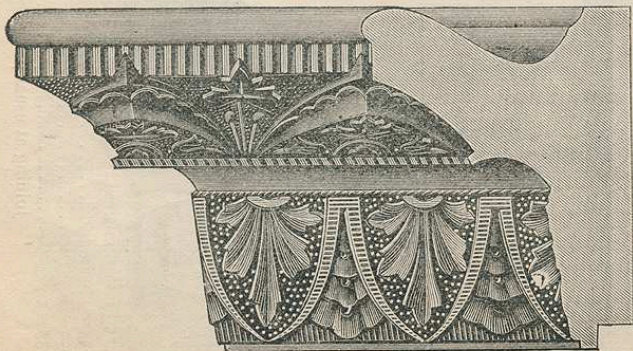
No. 1199.

Same as above in mahogany (red) color with plain ornament.
Price, per foot20c
" for joining either pattern.40c



No. 844.

Burnished Bronze,
3 inch,30c

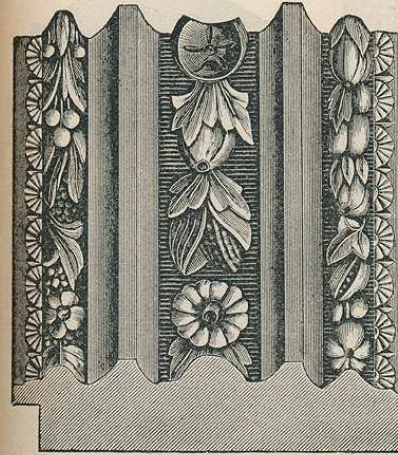


No. 6159.

This is a new pattern and very showy. Finished in a manner contrasting white, copper-color and gold burnish, creating an illuminating effect of great value.
3 inches, price per 100 ft. \$30 00

BRONZE MOULDINGS AND GILTS.

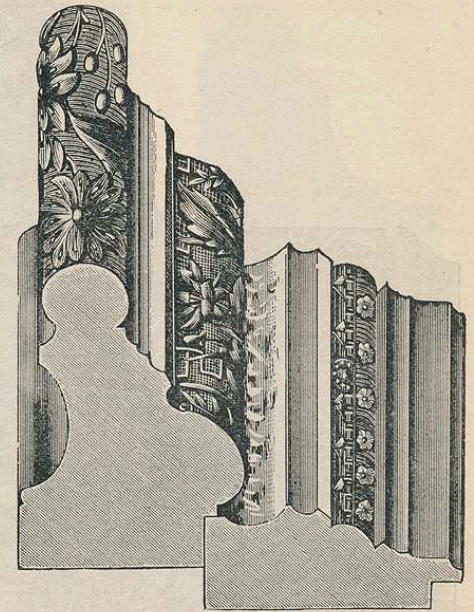
No. 149.



Same colors and finish as No. 6159. Newest style.

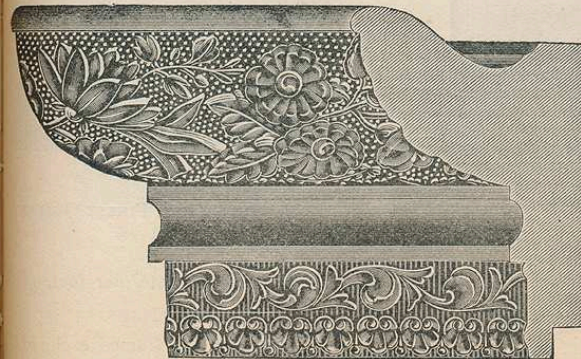
4 in., price per foot30c
Joining30c

No. 158c.—GILT OR BRONZE.



4 inches wide—comes in two pieces to join easily.
No. 158c.—Finest Composition Gold, per foot, - 36c
No. 158b.— " " Bronze " - 45c
Joining either of the above, - - - - 45c

No. 1521-22-23.



No. 1521.—2½ inch, same shape, best, different pattern.
Price, per foot,15c
No. 1522.—3½ inch, same style.
Price, per foot,25c
No. 1523.—4½ inch, same style.
Price, per foot35c
" for joining, 2½ inch.20c
" " 3½ "30c
" " 4½ "45c

COMPOSITION GOLD MOULDINGS--Continued.



HARTLEY CO.

No. 311.

3 inches wide, price per foot..... 15c
 Price for joining frames, each..... 20c
 Extra for corner leaves..... 30c



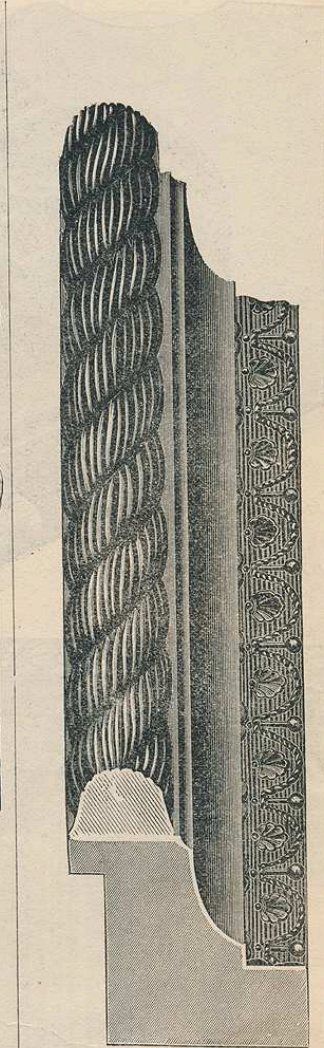
No. 830.—GILT, FINEST QUALITY.

Band 2 inches wide, per foot, 13 1/2
 Price for joining frames, each, 20 c

Composition Gold Mouldings--Continued.



No. 142—2 1/2 inches wide, per foot, - - 27 1/2c
 Price for joining frames, each, - 30c
 No. 143—3 1/2 inches wide, per foot, - - 36c
 Price for joining frames, each, - 40c
 No. 144—4 1/2 inches wide, per foot, - - 46c
 Price for joining frames, each, - 50c



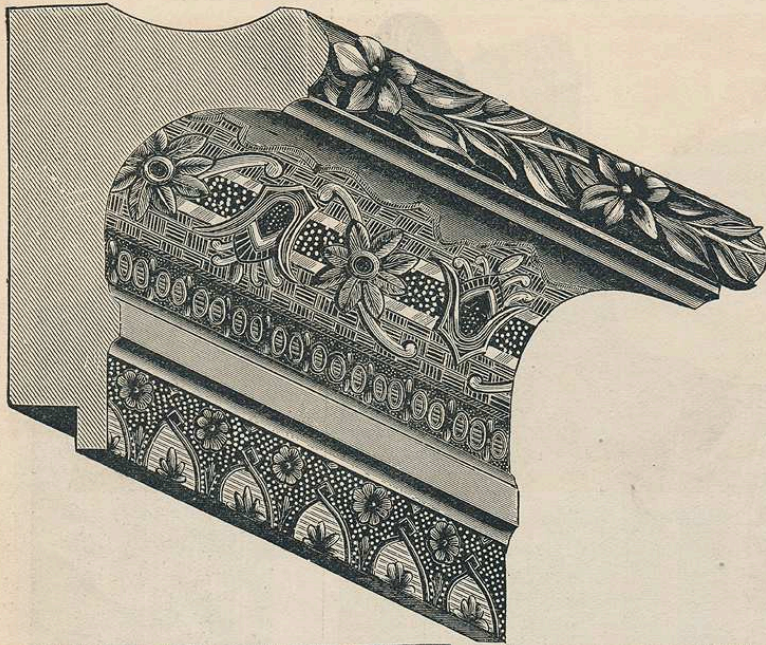
No. 890.

GILT, FINEST QUALITY.

Band 1 1/2 inches wide, per foot, 12c
 Price for joining frames, each, 20c

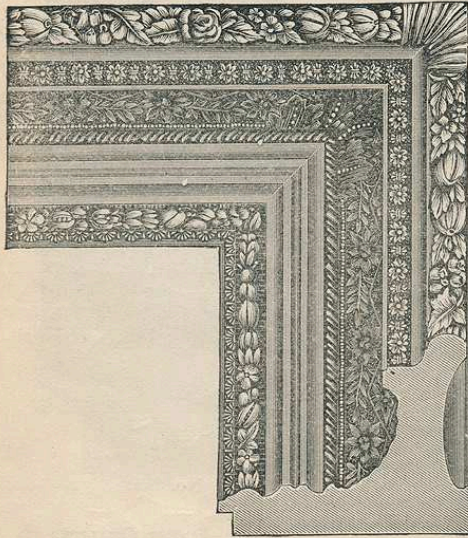
Handwritten marks: '46' and '36'.

MOULDINGS--Continued.



No. 2004-5-6-7—OUR LEADER. NOTE THE PRICES FOR FINE GILT.

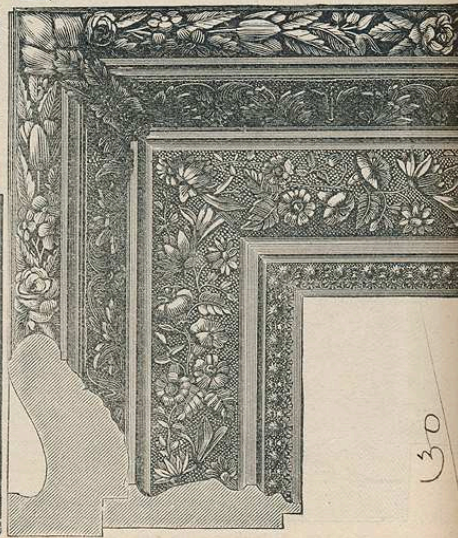
No. 2003—2 inch.....	10c
No. 2004—2½ inch.....	12 ½c
No. 2005—3 inch.....	15c
No. 2006—3½ inch.....	17 ½c
No. 2007—4 inch.....	20c



No. 108c.

4½ inch, composition, gold, best quality.

Price, per foot..... 48c
 Price for joining..... 50c



No. 122c. 6 inch, finest composition, gold made in two pieces to save waste and give depth to the frame. This is decidedly the leader.

Price, per foot..... \$0 60
 Price for joining..... 1 00

30

MOULDINGS.--Continued.



No. 692.—GILT, GOOD QUALITY.

3 inches wide, per foot.....	10c
3½ " ".....	12c



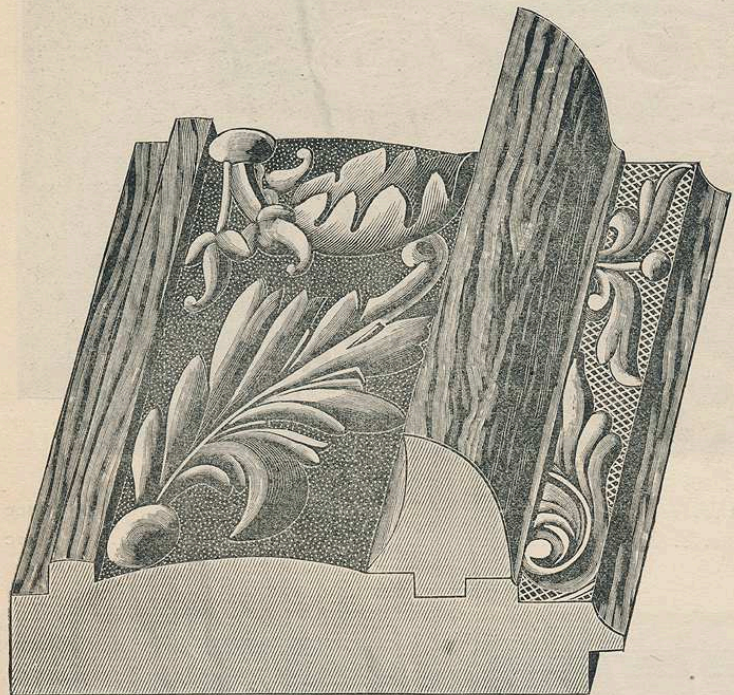
No. 1962.—Gilt, Good Quality.

This is a very pretty pattern, (REDUCED.)

No. 1961—2½ in..... 7 ½c.
 No. 1962—3 "..... 9c.

226
 18 74 6 270
 24
 521

❖ OAKS AND BRONZES. ❖



This cut represents the shape of 1869, 1871, 1872 and 1876.

No. 1869.
4 inch red English Oak, and carved ornaments, raised center, very fine.

Price, per foot, 48c
" for joining, 40c

No. 1871.
4 inch Red English Oak and oxidized brass ornaments, raised center, striking and beautiful.

Price, per foot, 35c
" for joining, 40c

No. 1872.
Same as 1871, only French Bog Oak and brass ornaments.

Price, per foot 40c
" for joining 40c

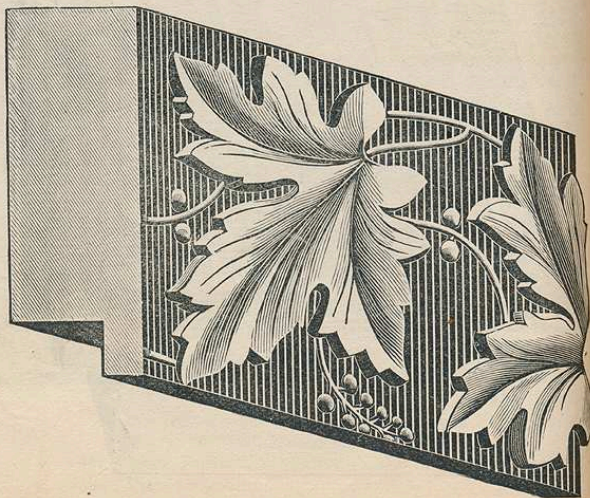
No. 1876.
Similar shape to 1871 and '72, but made of 4 inch oxidized brass, front swell, one of the finest patterns made.

Price, per foot 40c
" for joining 40c

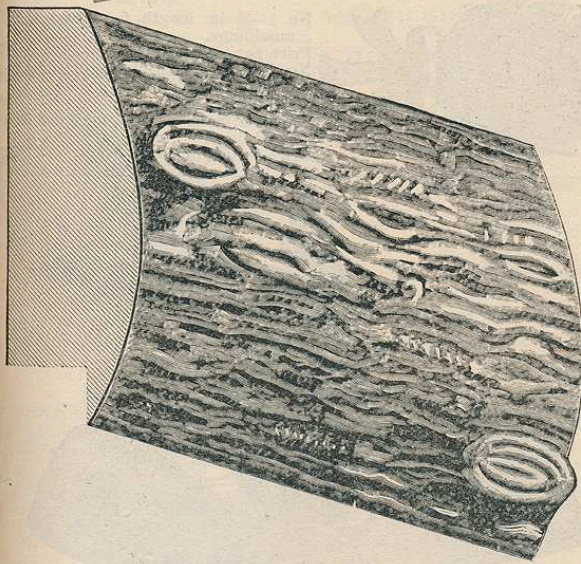
No. 1975b.

2½ inch, Bronze Leaf pattern.

Price, per foot 25c
" for joining.... 20c



MOULDINGS--Continued.



No. 673.—GILT GOOD QUALITY.

1½ inches wide, per foot, 5c
2 " " " " 7c
2½ " " " " 8½c

OUTSIDE BAND MOULDINGS.

SOME OF THESE CAN BE ALSO USED FOR LININGS.



No. 874.

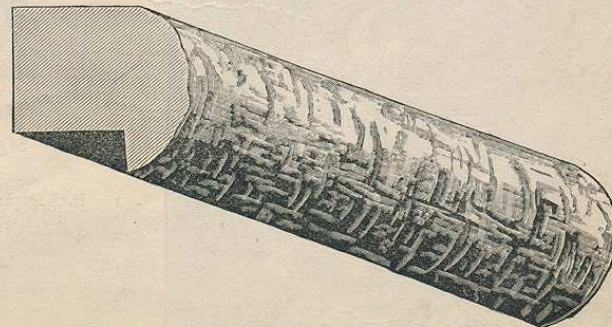
Burnished Bronze—finished back, very fine.

1 inch. per foot, 8c.

BARK PATTERN.

These are beautiful goods.,

No. 1940½—1 inch Band, tree bark, Gold 7½
No. 1941½—1 inch Band, tree bark, Ox, Brass..... 12½
No. 1942½—1 inch Band, tree bark, Ox, Silver... .. 12½

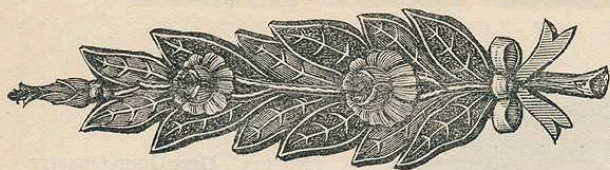


8
85
60
50
50
200

22
28
50
100
20
10

.85
.35
.60
.10
.75
25c

Superior Composition-Gold Gilded Lead ORNAMENTAL CORNER LEAVES.

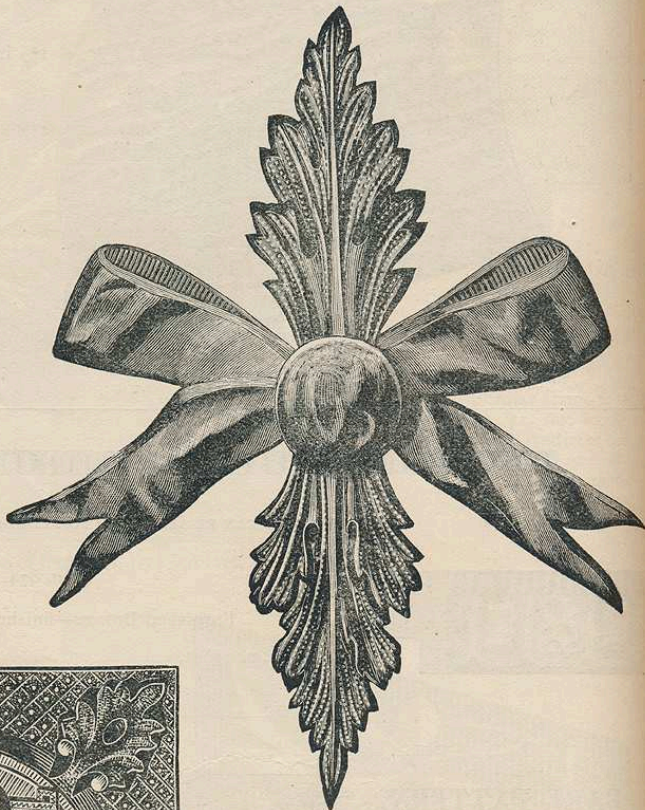


NO. 1.
 No. 1.—3½ in. length, for 2 and 2½ inch mouldings.
 Price per set of 4, - - - 22c
 No. 2.—5 inches length, for 3 and 4 inch mouldings.
 Price per set of 4, - - - 30c
 No. 3.—7 inches length, for 5 and 6 inch mouldings.
 Price per set of 4, - - - 37c

SUPERIOR COMPOSITION-GOLD GILDED LEAD
Ornamental Corners.

No. 22.

(Same size as opposite cut,) per set of 4..... 80c



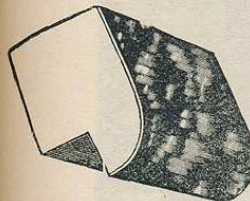
SQUARE CORNERS.

1	inch, square, per set of 4	22c
2	" " " "	30c
2½	" " " "	37c
3	" " " "	45c
3½	" " " "	65c

LININGS.

SANDED GILT LININGS.

1 inch square, per foot	2 cents	1½ inch oval, per foot	4½ cents
1 inch oval, per foot	3 cents	2 inch oval, per foot	6 cents

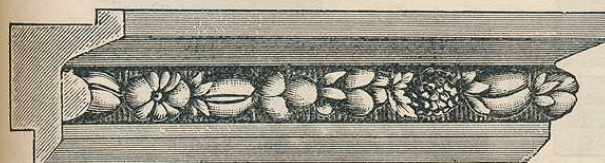


SILK PLUSH LININGS.

1 inch, Red, Blue or Old Gold, per foot	5 cents
1½ inch, Red or Blue, per foot	7½ cents
1½ inch, Red with Gold edge, ornamented, per foot	9 cents

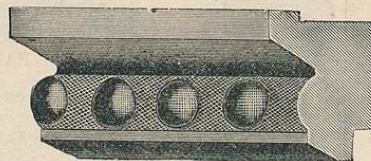
We guarantee all of our plushes to be of best quality.

No. 125.



1½ inch, finest composition and burnished, gold leaf.
 Price, per foot..... 10 cents

No. 836.



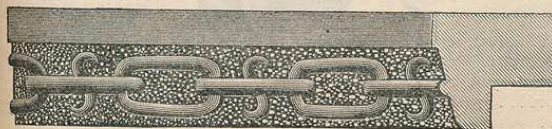
1½ inch, best quality, bronze.
 Price, per foot..... 12 cents

No. 5190.

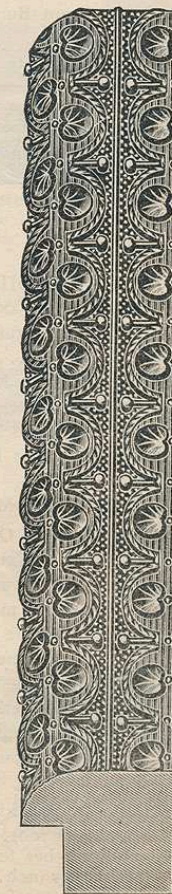


This lining is finished in imitation bronze.
 ¾ inch, per 100 feet..... \$3 00

No. 916.



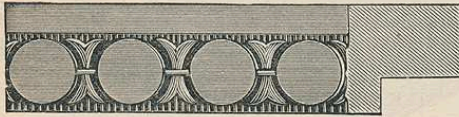
Gilt burnished chain, white frosting, ¾ inch..... 7 cents.



No. 865.—Gilt, best, 1 inch wide.
 Price per foot..... 4c

LININGS--Continued.

No. 167.



- No. 167. Composition Gold Leaf, . . . 3/4 inch, 6c
- No. 812. Burnished Bronze, same style, " 6c
- No. 812 1/2. Burnished Brass, " " 6c
- No. 800. Burnished Rope Pattern " 6c
- No. 900. Burnished Beads in Ox. Brass
1 1/4 inch. 10c

CHEAP LININGS.

- 3/8 inch Gilt Bead, not Burnished. 3 cents
- 5/8 inch Stencil Lining. 2 1/2 "
- No. 1754, similar shape to 125, 1 inch. 4 "



- No. 811. Burnished Bronze, 3/4 inch. 5 cents
- No. 811 1/2. " " 1 inch. 7 1/2 "

LARGE OUTSIDE BEADING.

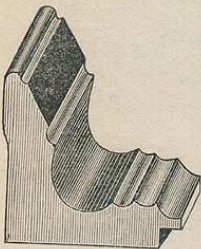
TO BE USED WITH ANY FLAT MOULDING.

- No. 900 1/2, 1 1/4 inch, burnished brass beads,
per foot. 12 1/2 c

This is same pattern as No. 900 lining, and makes up beautifully with 2 1/2 or 3 inch oak between the two; No. 900 inside and No. 900 1/2 outside. For design see cut of No. 167 lining.

IMITATION MOULDINGS.

Our line of these goods is the finest carried by any house in the west. Having a more beautiful color and the very highest French enamel. They are worth double the price of the Cincinnati imitations carried by some of our competing houses.

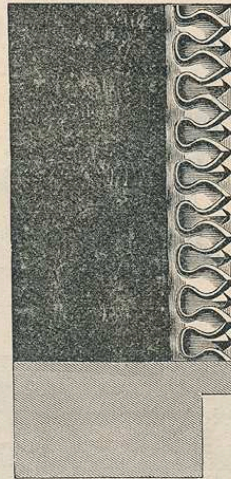


Note the prices.

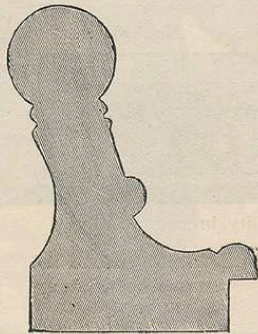
IMITATION WALNUT AND GILT, EBONY PANEL.

- No. 84. 1 inch, per foot. 3 c
- No. 85 1/2. 1 1/2 inch, per foot. 4 c
- No. 86 1/2. 2 inch, per inch. 6 c
- No. 87 1/2. 2 1/2 inch, per foot. 7 c
- No. 100 1/2. 3 inch, per foot. 8 1/2 c
- No. 100 1/2 has finished back throughout.

No. 1740.

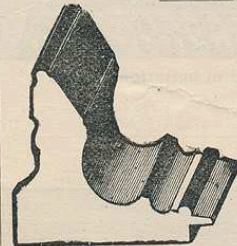


- Maroon plush lining; with ornamental gilt front.
- No. 1740, 1 1/2 inch. 9c



NIGGER HEAD PATTERN.

- CALIFORNIA WALNUT.
- No. 321 1/2, 1 1/2 inch same as used in No. 740 1/2 frame. Price per foot. 6 1/2 c

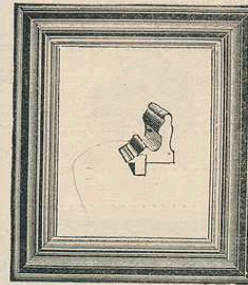


GENUINE WALNUT.

- No. 321, 1 1/2 inch same pattern as No. 321 1/2. . . . \$0 07
- No. 1033, 2 inch Genuine Walnut polished, ebony lines. 10 00
- No. 1034, 2 1/2 inch, Genuine Walnut, polished ebony lines. 13 00
- No. 1110, 3 inch, Genuine Walnut, polished ebony lines. 15 00

READY-MADE FRAMES.

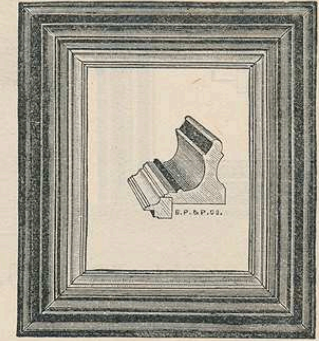
GENUINE WALNUT FRAMES.



No. 211.

1 1/2 inch, finely polished Walnut and Ebony, with 1/4 inch hollow Gilt lining.

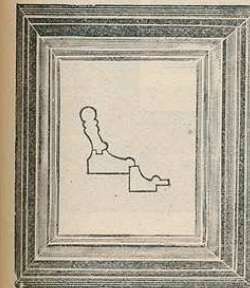
- 8 x 10 per dozen, \$6 00
- 10 x 12 " 7 20



No. 1265.

2 inch, finely polished Walnut and Ebony; 1 inch hollow Gilt lining.

- 8 x 10 per dozen, \$ 8 40
- 10 x 12 " 9 60
- 11 x 14 " 11 40
- 14 x 17 " 13 20
- 16 x 20 " 15 00



No. 740.

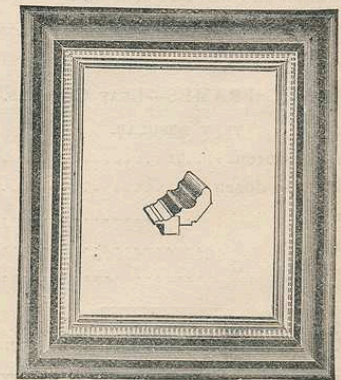
Similar pattern, not so highly finished.

- 8 x 10, each, \$0 45
- 10 x 12 " 55
- 11 x 14 " 70
- 14 x 17 " 90
- 16 x 20 " 1 10
- 20 x 24 " 1 30
- 22 x 28 " 1 50

Solid Walnut Moulding like the above, 1 5/8 inch, wide, \$6 50 per 100.

No. 740 1/2, California Walnut, same style.

- 8 x 10 each, \$0 40
- 10 x 12 " 50
- 11 x 14 " 65
- 14 x 17 " 80
- 16 x 20 " 1 00
- 20 x 24 " 1 25
- 22 x 28 " 1 40

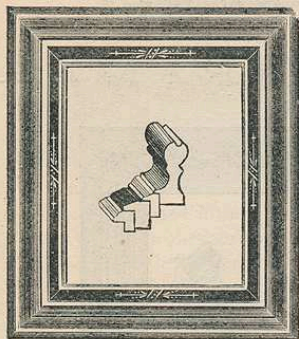


No. 3282.

2 1/2 inches wide, 2 1/2 inches deep, made of 1 1/2 inch Polished Walnut, 2 ebony bands and 3/4 inch stencil gilt lining.

- 8 x 10 \$4 00
- 10 x 12 5 00
- 11 x 14 6 00

READY-MADE FRAMES--Continued.



No. 802.

Made of 2 inch Polished Walnut band with Ebony and Gilt lines, 1/2 inch Gilt lining, 3/4 inch beveled imitation Ebony panel, with 1/2 inch Gilt lining. Neatly engraved. 3 3/4 inches wide 3 inches deep.

8x10.....	each, \$0.55
10x12.....	" 65
11x14.....	" 75

CHEAP SHELL FRAMES.

No. 1 and 2 SHELL FRAMES.

These are imitation French Walnut Veneer with fancy ornamental carving and ebony stripes, gilt lining.

No. 1, 3 inch. 8x10, per dozen.....	\$3 00
No. 2, 3 1/2 inch, 8x10, per dozen.....	3 50

CALIFORNIA CARVED SHELL FRAME.

This is a neat 2 3/4 inch frame of carved California Walnut and Gilt and sells well.

8x10, per dozen.....	\$2 40
----------------------	--------

RUSTIC FRAMES—LEAF CORNERS.

VERY POPULAR.

Cabinet, per dozen.....	\$1 35
6 1/2 x 8 1/2, per dozen.....	1 50
8 x 10 " ".....	2 00
10 x 12 " ".....	2 25
11 x 14 " ".....	2 40

FANCY IMITATION FRAME, 357.

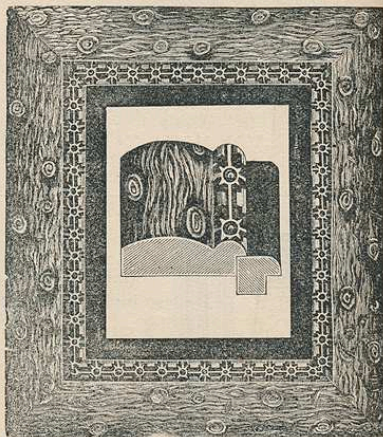
CALIFORNIA WALNUT, VENEERED CONVEX,

No. 357. Made of 1 1/2 inch moulding, with 3 3/4 inch stencil or plain gilt linings. Very high pattern. Deep massive frame.

8x10.....	\$ 50
10x12.....	60

Similar in shape to No. 740, but has an additional ornamental band.

FANCY GILT FRAMES.



No. 680 A.

NEW PATTERN.

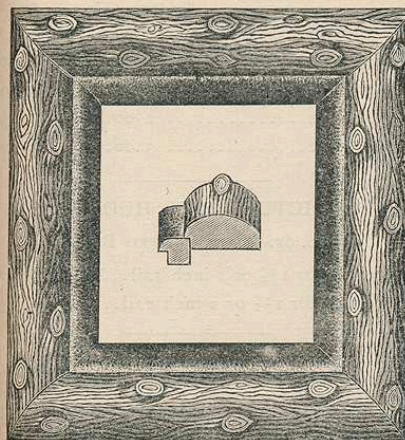
4 inches wide. Handsome Rustic pattern, with 1 inch inside ornamented bead: and 1 inch Maroon Plush lining.

8x10, each.....	\$0 95
10x12, each.....	1 10
11x14, each.....	1 25
14x17, each.....	1 35
16x20, each.....	1 45
18x22, each.....	1 55
20x24, each.....	1 65
22x27, each.....	1 75
25x30, each.....	1 95

Moulding like the above we have listed elsewhere as No. 692. Price, per foot..... 10 cents
With Plush..... 15 cents

See page 133.

Ready-Made Frames--Continued.

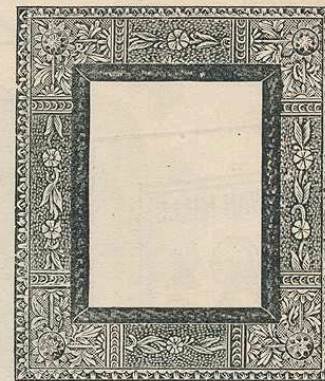


No. 674A.—NEW PATTERN.

3 inches wide. Handsome Rustic Pattern, with Knots and 1 inch Maroon Plush lining.

8 x 10.....	each, \$0 80
10 x 12.....	" 95
11 x 14.....	" 1 00
14 x 17.....	" 1 10

Any other size to order, at 12c. per foot, including plush. 20c. additional for joining, see moulding No. 673. Page 135.



Our No. 652.

Our No. 652.

This is the greatest success as a frame we have ever handled, the corner pieces and the outside ornament are bronze, with silver bands at the ends and a silver rosette in the center. The sides and ends of the frame are of sanded gold with raised ornament running through the center as shown in cut above. This frame has 1 inch silk plush lining and is the best and handsomest frame ever made for the money. NOTE THE PRICES.

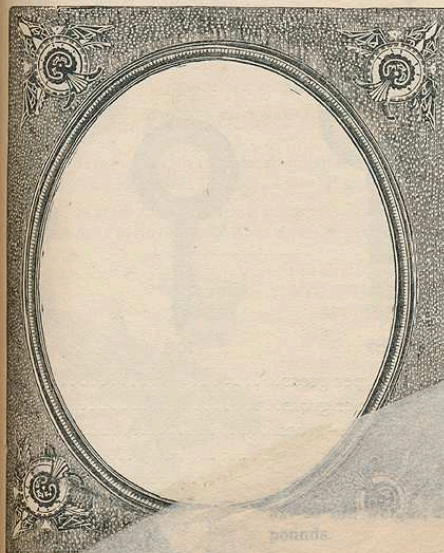
8x10, per dozen, \$12 00	14x17, per dozen, \$23 00
10x12, " 16 00	16x20 " 25 00
11x14, " 20 00	18x22 " 28 00
	20x24 " 30 00

OVAL PANELS.

Stuccoed or sanded, and gilded, for portraits, crayons, &c.

Size of Panel Outside.	Size of Opening.	Price each of Panel Only.
14x17.....	11x14.....	\$1 70
16x20.....	13x17.....	2 10
18x22.....	15x19.....	2 30
20x24.....	17x21.....	2 50
22x27.....	18x23.....	3 00
25x30.....	21x26.....	3 50

The above Panels are suitable for use, and are operated by a cam lever device, which con-

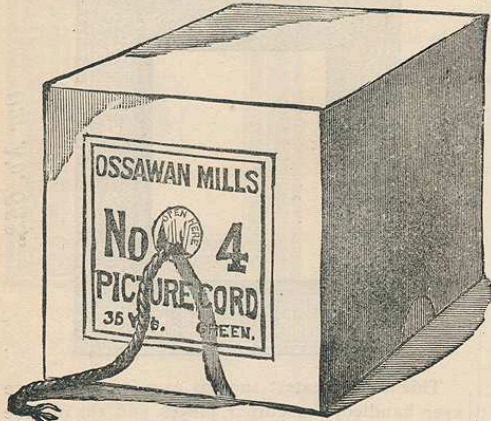


Similar in appearance in their action. they are a circle different width, raise the back end plaques. Now while the lever is up, and move to position.

This Vise can be Worked by Foot Treadle.
with of Jaw, Solid Steel, Opens Weights Price Five work
No. 1, size 4 in. 6 in. 35 lbs. \$ 8.00 \$ 9.00
No. 2, size 5 in. 8 in. 52 lbs. 11.00 12.75
Special vises to order made any length desired.

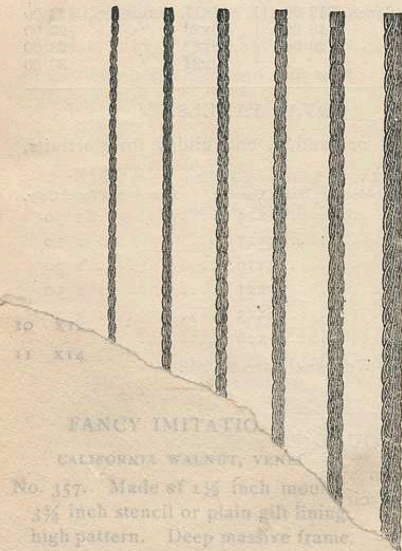
PICTURE FRAME REQUISITES.

WORSTED PICTURE CORD.
IN 36 YARD BOXES.



No. 0, scarlet or green, per box	15c
" 1, " " "	20c
" 2, " " "	25c
" 3, " " "	35c
" 4, " " "	45c

SILVER WIRE CORD.
25 YARD COILS.



FANCY IMITATION CALIFORNIA WALNUT, VINE
No. 357. Made of 1 1/8 inch iron
3/4 inch stencil or plain gilt finish
high pattern. Deep massive frame
No. 110, per gross.....45c
Similar in shape to No. 740, but has an additional ornamental band.

	Per Dozen Coils.	Per Coil.
No. 1, price	\$0 75	10c
No. 2, price	1 25	15c
No. 3, price	1 75	20c
No. 4, price	2 00	25c
No. 5, price	3 00	30c

PICTURE RAIL HOOKS.

No. 65.—ORNAMENTED BRASS.

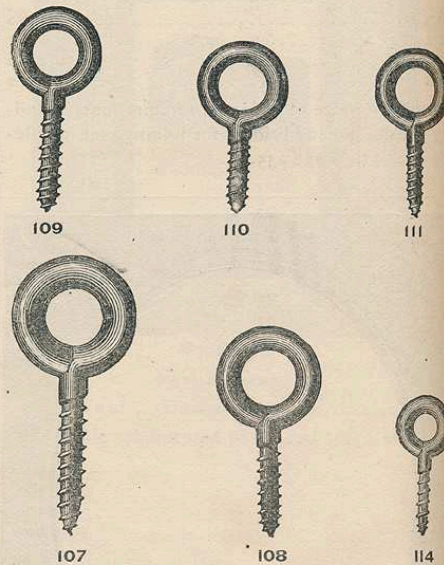
Per gross for 1 1/2 or 2 inch rail	\$4 00
Per dozen for 1 1/2 or 2 inch rail	35

No. 9.—PLAIN BRASS.

Per gross for 1 1/2 or two inch rail	\$3 00
Per dozen, " " "	25

SCREW EYES.

GIMLET POINT, BRIGHT IRON.



No. 114, per gross	25c
No. 113, per gross	30c
No. 112, per gross	32c
No. 111, per gross	35c
No. 110, per gross	40c
No. 100, per gross	45c
	50c
	55c

Picture Frame Requisites.—Continued.

WIRE MOULDING NAILS.—BARBED.

IN POUND PAPERS.

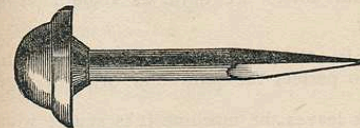
1/2 inch, No. 20 wire, per lb.	22c
3/4 " " No. 18 " " "	15c
1 " " No. 17 " " "	12c
1 1/4 " " No. 17 " " "	12c
1 1/2 " " No. 16 " " "	11c
1 3/4 " " No. 15 " " "	11c
2 " " No. 15 " " "	10c
2 1/2 " " No. 14 " " "	10c
3 " " No. 10 " " "	10c
4 " " No. 10 " " "	10c

PICTURE BACKING.—BEST SAWED PINE.

1/8 thick, per 100, \$0 80	per 1000, \$7 50
3/16 " " " 1 20	" 11 00
1/4 " " " 1 40	" 13 00

SQUARE CUT BACKS.—BEST SAWED PINE.

Size 6 1/2 x 8 1/2, per dozen, 10c	per 100, \$0 50
" 8 x 10 " " 10c	" 50
" 10 x 12 " " 15c	" 75
" 11 x 14 " " 25c	" 1 00
" 14 x 17 " " 30c	" 1 50
" 16 x 20 " " 40c	" 2 00



PICTURE NAILS.

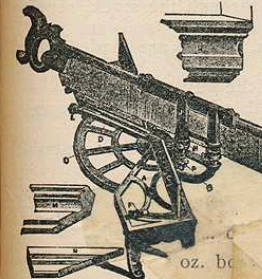
Porcelain or glass heads, plated, rim 2 1/2 and 3 inches.



No. 97, plated rims, hammered copper center, 2 1/2 inches, P doz. 20c., P gross, \$1 75
No. 236, plated rims, cushion patterns, gold centre, 2 1/2 inches, P doz. 25c., P gross, 2 75

THE SPILKER UNIVERSAL MITRE BOX.

Price, with saw 4x22 inches, warranted of the best steel, filed and set, made expressly for us by a well-known firm, and are equal to any saw made, \$9.50; packed in a box 3x7-26 in.; weight, 25 pounds.

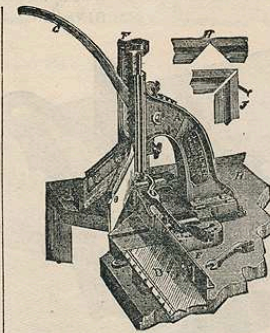


PATENT APPLIED FOR

THE SPILKER JOINT-CUTTER.

Ahead of all others for Cheapness, Durability and Rapid Operation.

Undoubtedly the best Mitre machine ever offered; has stood the severest test in most of the leading factories in the United States and foreign countries



since 1879, and is pronounced by all who have used them perfectly satisfactory. They are used by Picture Frame, Sash, Door and Blind, and Cabinet Furniture Manufacturers, and in every branch where mitering is done. A Joint-Cutter will do mitering perfect in two-thirds less time than others.

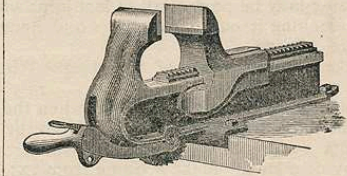
Any one with very little practice can do work on this machine equal to the best mechanic.

Price, No. 1 size, cuts 4 in. wide, 3 1/2 in. high, \$36.00 net.
" No. 2 " (heavy) cuts 5 in. wide, 4 1/2 in. high, 55.00 "
Angle Attachment for No. 1, - - - - - 2.55 "
Foot Power for No. 1, - - - - - 4.00 "

Packed and delivered at depot in this city.

THE SPILKER PARALLEL LEVER VISE.

Patent applied for.



The above cut represents a new vise, especially adapted to Wood Workers, Carriage Manufacturers, Picture Frame Makers, and almost any kind of iron and metal finishers in general.

They are preferable to a screw vise, by reason of rapid adjustment and firmness of grip, and are readily locked by an automatic device, which consists of a double knee joint operated by a cam lever and paul ratchet, in connection with tooth rack attached to movable jaw. These parts are on the inner side, and positive in their action.

To adjust for different width, raise the back end of moveable jaw while the lever is up, and move to the desired position.

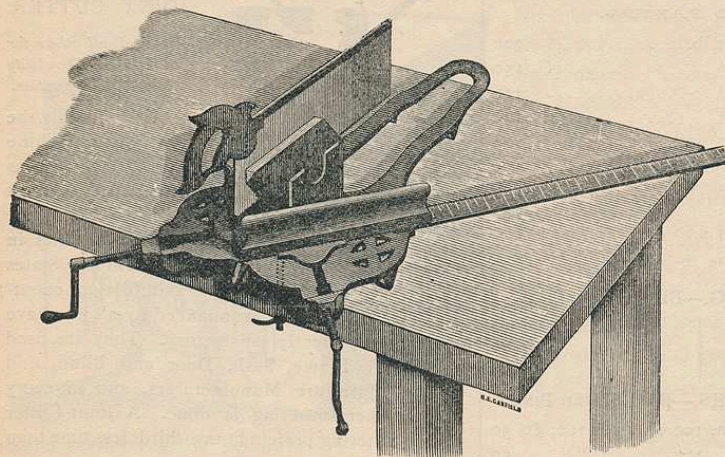
This Vise can be Worked by Foot Treadle.

Width of Jaw, Solid Steel.	Opens.	Weight.	Price.	Price with Treadle.
No. x, size 4 in.	6 in.	35 lbs.	\$ 8 00	\$ 9 00
No. xx, size 5 in.	8 in.	62 lbs.	11 50	12 75

Special vises to order made any length desired.

BRANDON'S IMPROVED MITERING MACHINE AND VISE COMBINED.

23 REASONS WHY FRAME-MAKERS AND WOOD-WORKERS SHOULD USE BRANDON'S IMPROVED MITERING MACHINE AND VISE COMBINED.



1. Does the largest range of work.
2. Simple, durable, and has less parts than any other machine in the world.
3. Any kind of saw may be used any width or height.
4. Only machine that has vises attached to bed plate, holding the stock firm while sawing, joining, glueing or nailing.
5. Gives 1000 lbs. or more pressure on

joint when glue is applied.

6. Glue may be used much stronger with good effect.
7. Operator has both hands free at all times.
8. Saw running through stock from back edge causes it to work against the grain; thereby saves the edge or finish and flakes off the chip, if any.
9. By this discovery less set is used in saw and miters are quite as smooth as when plane is used.
10. No plane needed.
11. Frame may be perfect all to last joint which is often the case: by running saw through last joint while on machine it cuts away the wood necessary to perfect the joint and bring it together with very little effort.
12. Takes the warp out of moulding. When work leaves the machine it is square with the angle and true on the surface.
13. Machine is so constructed that when the frame is complete, the strain is greater on the inside than on the outside, causing all slack to be taken up, so that shrinkage by heat does not affect the joints so much.
14. Boy or man can make a frame from 7x7 inches up to full length of moulding, machine and bench supporting the weight.
15. No skilled labor required to use it.
16. No oil used on machine except on cranks and head block slots.
17. Saw guides may be removed from machine in an instant, giving a superior vise for carving, engraving and for holding frame, while fitting and glueing corner ornaments.
18. Mitters cut on other machines can be joined on this machine and made superior to those glued and nailed by any other process.
19. Machine, unlike others, allows full length of saw blade to pass through the stock, severing the same very rapidly.
20. The only portion of machine subject to wear are the saw guides. These are made of hard seasoned maple and are adjustable.
21. Machine can be easily removed from bench and hung up out of the way.
22. Advantages of all other machines are contained in this one with additional advantages of marked importance, such as holding stock or frame while mitering, joining, glueing, nailing, etc.
23. Price within reach of all, and the uses for which the machine can be applied are invaluable.

PRICE LIST.

1. Machine, net.....	\$12 50
2. Attachments cutting from right angle.....	2 00
3. Attachments used by Carriage-Makers and Wood-Workers.....	3 00
4. 4½x20 saw, 14 points per inch, Disston or Boynton make.....	2 50
5. 5x24 saw, 14 points per inch, Disston or Boynton make.....	2 75
6. File, extra fine tapered, with printed instructions for filing saw.....	25

CHEMICALS.

Manufactured by Mallinckrodt Chemical Works, Powers & Weightman, Herf & Frerichs, E. & H. T. Anthony and other reliable Chemists.

CANS OR BOTTLES INCLUDED.

Acid, Acetic, No. 8, 1 lb. bottle.....	\$0 20
Acid, Acetic, No. 8, 2 lb. bottle.....	35
Acid, Acetic, No. 8, 5 lb. bottle.....	75
Acid, Glacial Acetic, 1 oz. bottle.....	15
Acid, Glacial Acetic, 2 oz. bottle.....	20
Acid, Nitric, C. P. 1 oz. bottle.....	15
Acid, Nitric, C. P. 2 oz. bottle.....	20
Acid, Nitric, C. P. 4 oz. bottle.....	25
Acid, Nitric, C. P. 8 oz. bottle.....	35
Acid, Nitric, C. P. 16 oz. bottle.....	50
Acid, Muriatic, C. P., same price as Nitric.	
Acid, Sulphuric, C. P., same price as Nitric.	
Acid, Nitric, 38°, commercial, 1 lb. bottle..	35
Acid, Nitric, 38°, commercial, 2 lb. bottle..	45
Acid, Nitric, 38°, commercial, 7 lb. bottle..	1 60
Acid, Citric, per 1 oz. (bulk).....	10
Acid, Citric, per 4 oz. bottle.....	35
Acid, Citric, per 8 oz. bottle.....	65
Acid, Citric, per 16 oz. bottle.....	1 00
Acid, Boracic, per 1 oz., bulk.....	05
Acid, Boracic, per 16 oz. bottle.....	80
Acid, Oxalic, 1 lb. package.....	20
Acid, Oxalic, 5 lb. package.....	90
Acid, Pyro. Schering's, per 1 oz. can.....	40
Acid, Pyro. Schering's, per 1 oz. bottle.....	45
Acid, Pyro. Schering's, per 4 oz. can.....	1 25
Acid, Pyro. Schering's, per 8 oz. can.....	2 30
Acid, Pyro. Schering's, per 16 oz. can.....	4 50
Pyrogallic Acid is all imported. Mallinckrodt Chemical Works put up Schering's Pyro. under their labels, consequently Mallinckrodt and Schering's Pyro. are one and the same.	
Acid, Pyro. G. G., Dr. Byk's, per 1 oz. can	35
Acid, Pyro. G. G., Dr. Byk's, per 4 oz. can	1 10
Acid, Pyro. G. G., Dr. Byk's, per 8 oz. can	2 15
Acid, Pyro. G. G., Dr. Byk's, per 16 oz. can	4 25
Acid, Salicylic, per 1 oz. can.....	30
Acid, Formic, per 1 oz. bottle.....	45
Acid, Tannic, per 1 oz. bottle.....	30

Alcohol, wood, for burning only, 1 qt. bottle	\$ 70
Alcohol, wood, for burning only, 2 qt. bottle	1 30
Alcohol, wood, for burning only, gall. bottle	2 50
Alum, Chrome, bulk, per oz.....	05
Alum, Chrome, bulk, per 4 oz. package....	10
Alum, Chrome, bulk, per 8 oz. package....	20
Alum, Chrome, bulk, per 16 oz. package....	30
Alum, Powdered, bulk, per pound.....	15
Ammonia, Conc., stronger, per 1 lb. bottle..	40
Ammonia, Conc., stronger, per 2 lb. bottle..	75
Ammonia, Conc., stronger, per 4 lb. bottle..	95
Ammonia, Nitrate Crystal, per 2 oz. bottle	15
Ammonia, Nitrate Crystal, per 4 oz. bottle	25
Ammonia, Nitrate Crystal, per 8 oz. bottle	35
Ammonia, Nitrate Crystal, per 16 oz. bottle	55
Baryta, Nitrate, bulk, per oz.....	15
Baryta, Nitrate, bulk, per 4 oz.....	30
Benzole, pure, per ½ lb. bottle.....	60
Benzole, pure, per 1 lb. bottle.....	1 00
Calcium, Chloride, per 1 oz. bottle.....	15
Calcium, Chloride, per 4 oz. bottle.....	40
Chloroform, per 1 oz. bottle.....	20
Chloroform, per 4 oz. bottle.....	45
Chloroform, per 8 oz. bottle.....	80
Chloroform, per 16 oz. bottle.....	1 50
Copper, Acetate, per 1 oz.....	20
Copper, Sulphate, bulk, per 1 lb.....	40
Dextrine, best, bulk, per 1 lb.....	25
Ether, Conc. Sulph., per 1 lb. can.....	90
Ether, Conc. Sulph., per 2 lb. can.....	1 75
Ether, Conc. Sulph., per 3 lb. can.....	2 60
Ether, Conc. Sulph., per 3½ lb. can.....	3 00
Ether, Conc. Sulph., per 1 lb. bot., Anthony's	1 00
Gold, Pure Chloride, per 15 gr. bot., Mallin	50 50
Gold, Pure Chloride, per doz. 15 gr. bottles	
Mallinckrodt's or Herf & Frerich's....	5-75 600
Gold, Pure Chloride and Sodium, per 30 gr. vial, Mallinckrodt's or Herf & Frerich's	50 50
Gold, Pure Chloride and Sodium, per doz. 30 grain vials, Mallinckrodt's.....	5-75 600
Glycerine, pure, per 1 oz. bottle, advanced	15

CHEMICALS--Continued.

Glycerine, Pure, per 2 oz. bottle, advanced. \$ 25	Potass, Ferri Cyanide, Red Prussiate, per 1 oz. bottle. \$ 20
Glycerine, Pure, per 16 oz. bottle, advanced 1 00	Potass, Ferro Cyanide Yell. Prussi., per 1 oz 10
Gum Sanderac, per pound. 60	Potassium, Ferro Cyanide, Yellow Prussiate, bulk, per 2 oz. 10
Gum Arabic, best, per pound, advanced. 1 25	Potassium, Ferro Cyanide, Yellow Prussiate, bulk, per pound. 1 10
Gum Demar, per pound 65	Potassium, Sulphate, per pound. 40
Gum Shellac, bleached and refined, per lb. 80	Potassium, Sulphuret, per 1/2 pound bottle. 25
Gum Shellac, Orange, per pound. 50	Potassium, Sulphuret, per pound bottle. 45
Gum Turpentine, per pound. 25	Potassium, Caustic, per 1/2 pound bottle. 45
Gum Mastic, per pound. 2 00	Pumice Stone, pulverized, per oz. 10
Hydrochinon, H. & F., per oz. 60	Rosin, powdered, per pound. 25
Iron, best Proto Sulphate, per pound. 06	Soda, Carbonate, or Sal Soda, pure, per lb. 10
Iron and Ammonia, double, per pound pkg. 15	Soda, Carbonate, pure, granular per box. 12
Iodine, Tincture, per 1 oz. bottle. 25	Soda, Carbonate, pure, crystal, per lb. pkg. 15
Iodine, Resublimed, per 1 oz. bottle. 50	Soda, Sulphate, per oz. bottle, C. P. 20
Kaolin, China Clay, per pound. 10	Soda, Sulphate, per pound bulk. 40
Lead, Acetate, per 1 oz. bottle. 15	Soda, Citrate, per oz. bottle. 20
Lead, Acetate, per 2 oz. bottle. 25	Soda, Hyposulphite, per pound. 05
Lead, Acetate, per 4 oz. bottle. 40	Soda, Hyposulphite, per 112 lb. kegs. 3 75
Lead, Chloride, per 1 oz. bottle. 25	Soda, Acetate, per 4 oz. bottle. 20
Lead, Nitrate, per 1 oz. bottle. 25	Soda, Acetate, per 8 oz. bottle. 35
Lead, Sugar, per 1 oz. bottle. 15	Soda, Acetate, per 16 oz. bottle. 65
Litmus Paper, blue or red, per sheet. 05	Soda, Bicarbonate, per pound, best English 15
Litmus Paper, blue or red, per 1/2 doz. 25	Soda, Tungsstate, per oz. bottle. 20
Lime, Chloride, bulk, per pound. 25	Soda, Sulphite, per 1/2 lb. can, crystal. 15
Lavender, Oil, per 1 oz. bottle. 20	Soda, Sulphite, per lb. can (crystal). 25
Lavender, Oil, per 2 oz. bottle. 35	Soda, Sulphite, per 5 " " 1 00
Lavender, Oil, per 4 oz. bottle. 75	Soda, Sulphite, per 1/2 lb. bottle, (crystal). 20
Lavender, Oil, per 16 oz. bottle. 2 75	Soda, Sulphite, per 1 " " " 30
Magnesia, Nitrate, per 1 oz. bottle. 20	Soda, Sulphite, per 1/2 " " dried. 25
Magnesia, Nitrate, per 4 oz. bottle. 35	Soda, Sulphite, per 1 " " " 40
Magnesia, Nitrate, per 8 oz. bottle. 65	Soda, Sulphite, per 1 " box " 35
Mercury, Bichloride, per 1 oz. bottle. 15	Soda, Sulphite, per 1/2 " " " 20
Mercury, Bichloride, per 4 oz. bottle. 30	Soda, Sulphite, der 5 " " " 1 40
Parrafin, per pound. 40	Strontia Chloride und Muriate. 15
Potassium, Neutral Oxalate, per pound pkg 35	Silver, P. & W. or Herf & Frerichs, per oz. net 80
Potassium, Neutral Oxalate, per 5 lb. box. 1 50	Silver, " " " 2 " 1 60
Potassium, Bichromate, bulk, per 2 oz. 10	Silver, " " " 3 " 2 25
Potassium, Bichromate, bulk, per 2 oz. 15	Silver, " " " 4 " 3 00
Potassa, Carbonate, Salts of Tartar, per pound, bulk, 25c., per bottle. 30	Silver, " " " 8 " 5 75
Potassa, Nitrate, per 1/2 lb. bottle. 20	Silver, " " " 16 " 11 50
Potassa, Permanganate, per oz. bottle. 25	Silver, Iodide, per oz. 1 50
Potassium, Cyanide, per 1/4 lb. bottle. 25	Silver, Chloride, per oz. 1 50
Potass, Cyanide, per 1/2 lb. bottle. 40	Silver, Bromide, Mallinckrodt's, per oz. 1 50
Potass, Cyanide per 1 pound bottle. 75	

CHEMICALS--Continued.

Turpentine, Venice, per oz. bottle. \$ 25	developer should be old, or if only fresh on hand, diluted half with water. Because it can be used repeatedly it will be found cheaper than the Pyro developer, made up according to formulæ. Send for a bottle. The price for 8 oz. bottles is 30 cents; 16 oz. bottles, 60 cents; 32 oz. bottles \$1 10.
Uranium, Nitrate or Chloride, per oz. 1 00	
Water, Distilled, per qt. bottle. 20	
Water, Distilled, per 2 " " 30	
Water, Distilled, per gallon. 50	
Wax, White, per lb. 1 00	
BROMIDES AND IODIDES.	
Iodide, Ammonium, per 1 oz. bottle. 55	Anthony's Negative, per oz. \$ 50
Iodide, Potassium, 1 " " 40	Anthony's Positive, soluble, No. 1 and 2, oz. 50
Iodide, Cadmium, 1 " " 60	Anthony's Climax, per oz. 75
Iodide, Lithium, 1 " " 1 45	Anthony's Snowy, per oz. 1 00
Iodide, Calcium, 1 " " 75	Hance's Delicate Cream, per oz. 80
Bromide, Ammonium, 1 " " 15	Hance's Silver Spray, per oz. 50
Bromide, Ammonium, 2 " " 25	
Bromide, Ammonium, 4 " " 30	GUN COTTON.
Bromide, Ammonium, 8 " " 50	Price per oz. 10
Bromide, Ammonium, 16 " " 85	" 4 oz. 30
Bromide, Potassium, 1 " " 20	" 8 " 45
Bromide, Potassium, 4 " " 35	" 16 " 75
Bromide, Potassium, 8 " " 60	
Bromide, Potassium, 16 " " 1 00	ABSORBENT COTTON.
Bromide, Cadmium, 1 " " 30	Price per oz. 10
Bromide, Lithium, 1 " " 75	" 4 oz. 30
LIGHTNING FLASH POWDER—See page 104.	
For making pictures at night, per oz. \$0 75	" 8 " 45
SENSITIZED PAPER PRESERVATIVE.	
Brown & Goldsmith's, price per package. . . \$2 00	" 16 " 75
W & C, per small can. 20	
W & C, per large can. 35	VARNISHES.
PREPARED SILVER BATHS.	
READY FOR USE (REDUCED).	
For Negatives. per pint, \$1 75. per qt. \$3 00	Paine & Co.'s Lavender, per 8 oz. bottle. 40
For Ferrotypes. " 1 50. " 2 75	Paine & Co.'s Lavender, per 16 oz. bottle. 75
For Printing. " 2 25. " 4 00	Paine & Co.'s Lavender, per quart bottle. 1 45
PREPARED TONING BATH—(REDUCED).	
ONE OZ. TONES TWO SHEETS PAPER.	
Price per 8 oz. bottle. 75	Paine & Co.'s Crystal, the best, per bottle. 30
" 16 " 1 40	Anthony's Flint, per bottle. 40
GELATINE.	
Nelson's No. 1 and 2, per lb. \$1 50	Anthony's Flint per pound. 1 00
Heinrich's " 1 50	Anthony's Dry Plate, per bottle. 40
SEED'S DEVELOPER READY FOR USE.	
Produces the finest results obtainable, and Printing Qualities which cannot be surpassed, and we are confident it will give perfect satisfaction to all who will use it.	
It is ready for use, and needs no addition or diluting, does not discolor like the Pyro Developer, and by repeated using loses but little of its strength.	
If a negative is undertimed, fresh developer should be used, while overtimed negatives the	

DRY PLATES.

Photographers in the West have pretty generally concluded that the Seed, the Cramer and Stanley Plates are what they want. So we carry a very large supply of these brands and have discontinued the less popular makes.

G. Cramer.

DRY PLATES.

Cramer Lightning Sensitometers ranging from 15 to 60 in stock. Seed's Arrow Brand 22 to 26 and Stanley 25.

Present Prices for all Standard Plates

3/4 x 4 1/4 per doz.	\$0 45
4 x 5	65
4 1/4 x 5 1/2	75
4 1/4 x 6 1/2	90
5 x 7	1 10
5 x 8	1 25
6 1/2 x 8 1/2	1 65
8 x 10	2 40
10 x 12	3 80
11 x 14	5 00
14 x 17	9 00
16 x 20	12 50
17 x 20	13 00
18 x 22	15 50
20 x 24	18 50

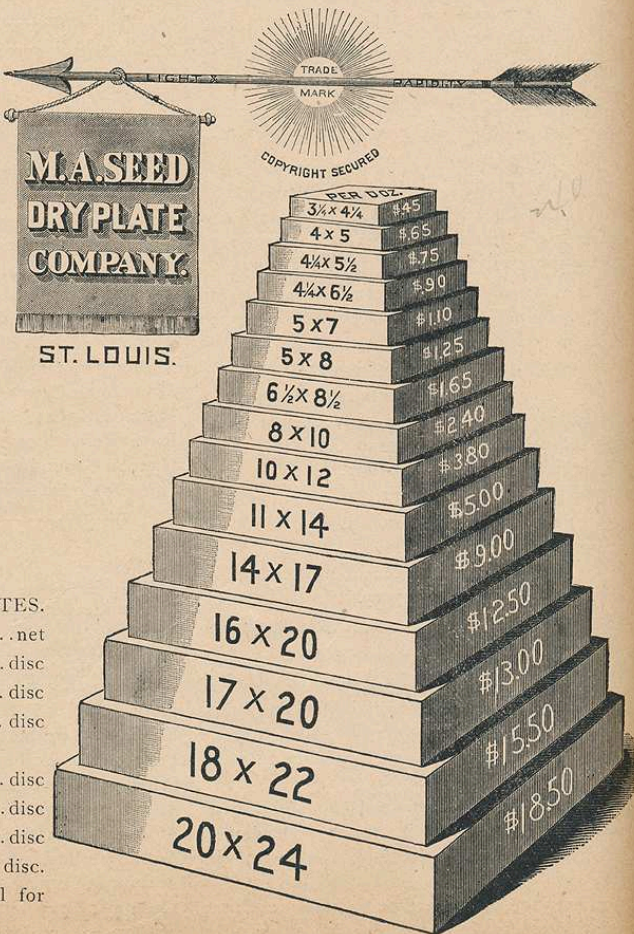
DISCOUNTS ON DRY PLATES.

Less than \$20. worth.....net
 \$20. to \$50. worth... 5 per cent. disc
 \$50. to \$100. worth 7 1/2 per cent. disc
 \$100. or over..... 10 per cent. disc

STANLEY DRY PLATES.

Less than \$20. worth, 5 per cent. disc
 \$20 to \$50. worth... 10 per cent. disc
 \$50. to \$100. worth... 12 1/2 per cent. disc
 \$100. or over..... 15 per cent. disc.

Also 3 per cent. additional for cash on all of the above prices.



NOW READY

McGowan's Dry Ferrotypes Plates

A COMPLETE SUCCESS!

→*EASILY + WORKED, + QUICK, + RELIABLE + AND + GUARANTEED.*←

Dried by Heat! No Bath! No Cyanide!

Per package of 2 doz. 3/4 x 4 1/4	..... \$0 90	Per package of 2 doz. 5 x 8	..... \$2 25
" " " 4 x 5	..... 1 25	" " " 6 1/2 x 8 1/2	..... 3 75
" " " 4 1/4 x 5 1/2	..... 1 50	" " " 7 x 10	..... 4 00
" " " 4 1/4 x 6 1/2	..... 1 80	" " " 8 x 10	..... 4 50
" " " 5 x 7	..... 2 00	" " " 1 doz. 10 x 14	..... 4 00

Stock Solution, 6 oz. bottle, 25 cents.

Full directions with each package. Try them!

FERROTYPE PLATES.

Very fluctuating, liable to go up or down.

	Per doz.	Box of 200	CUT PLATES.
Union, black or tinted.....	\$1 00	\$15 00	1-9, Phoenix Glossy, per 8 doz. box..... \$1 00
Champion, " " Eggshell..	1 25	20 00	1-6, Phoenix Glossy, per 8 doz. box..... 1 35
" " " Glossy..	1 40	22 00	1-4, Phoenix Glossy, per 8 doz. box..... 2 00
Keystone Black Eggshell.....	65	10 00	1-2, Phoenix Glossy, per 4 doz. box..... 2 35
Dark Lake Tinted Eggshell.....	75	12 00	5-7, Phoenix Eggshell, per 4 doz. pkg..... 2 40
			5-7, Phoenix Glossy, per 4 doz. pkg..... 2 70
			4-4, Phoenix Eggshell, per 2 doz. pkg..... 2 40
			4-4, Phoenix Glossy, per 2 doz. pkg..... 2 70

PAPER--ALL KINDS.

8 ALBUMEN PAPER.

We do not carry second choice paper.

PRICES AS FOLLOWS:

Eagle, ex. brilliant white, pink, pense or pearl, doz. 90c. 1/4 ream, \$8 75. 1/2 ream, \$17 00. ream, \$33 00
N. P. A. " " " " " 90c. " 8 75. " 17 00. " 33 00
S. & M. " " " " " 90c. " 8 75. " 17 00. " 33 00
Three crown " " " " " 90c. " 8 75. " 17 00. " 33 00
Morgan's " " " " " 90c. " 8 75. " 17 00. " 33 00
Eagle satin gloss, pense, doz. 1 10. " 10 75. " 21 25. " 42 00
New Size, 20 1/2 x 24 1/2, in pense only, three crown, extra brilliant, per doz. \$1 05. per ream \$40 00

CARD STOCK.

The Cards listed below are all carried regularly in stock, and will be, as long as the factories make them. The styles change from time to time, and some of those we now carry will be discontinued and different colors, &c., made in their places. These we will add to our stock as fast as practicable so that our customers may always depend on our carrying all the most popular kinds.

An unexpected run on any one number may run us out of it for a few days, but we always have something of similar quality and appearance which we can send if needed immediately.

New Reduced Price List of Collins' Card Stock.

MINETTE CARDS.

	Round Corners Per 1000.
No. 24, Plain, rose, primrose or pearl, 1 1/2 x 2 3/8	\$1 00
" 24, Gilt borders, " " "	1 65
" 53, Enameled and figured back, pink, Sleeves' prepared	1 95
" 37, Enameled and figured back, pink, pearl or primrose, 1 1/2 x 2 3/8	2 30
" 42 1/2, Enameled back, fancy border, 2 x 3 1/8	3 50

PETITE MOUNTS.

No. 65, Maroon face, gray backs, gold bevel edges, 1 5/8 x 3 1/8	6 25
" 106, Rose, enameled back, gold bevel edges, 1 5/8 x 3 1/8	6 25

MILIEU OR PARISIAN PANEL MOUNTS.

No. 65, size 1 3/4 x 4 3-16, Maroon face, gray backs, gold bevel	\$7 00
" 106, Enameled back, Rose, gold bevel	7 00

CARTE DE VISITE OR CARD SIZE MOUNTS.

PLAIN EDGES, UNENAMELED.	
No. 108, Rose or primrose	2 63
PLAIN EDGES, ENAMELED BACK, PLAIN FACE.	
" 341, Rose or primrose	3 00
" 124, Primrose, red border	5 50
PLAIN EDGES, ENAMELED FACE, PLAIN BACK.	
" 117, Maroon face, tea back	3 00
" 69, Maroon face, gray back, gilt borders	6 00
PLAIN EDGES, ENAMELED BOTH SIDES.	
" 129, White or cream, light weight	2 00
" 113, Cream, heavy weight	3 50
" 39, Primrose, gilt lines on face	5 50
THIN RED BEVEL EDGES.	
" 19, Primrose, plain face and back	5 00
" 43, Olive and dark olive, both sides	5 75
" 344, Dark olive face, gray back	5 00

THIN TINTED BEVEL EDGES.

	Round Corners Per 1000.
No. 85A, White, salmon edge	\$4 25
" 85D, Rose, fawn edge	4 25
" 45, Maroon face, gray back, yellow edge	4 25
" 45, Bottle green face, gray back	3 75

THIN, GOLD BEVEL EDGES.

" 158, Mode face, gray back, entirely new	5 50
" 107, Rose or primrose, plain face and back	6 00
" 106, Rose or primrose, plain face and enameled back	6 50
" 344, Olive, dark olive and black, gray backs	6 00
" 126, Maroon face, tea backs	6 75
" 114, Maroon face, gray backs	7 00
" 66, Maroon both sides	8 00
" 66, Dark olive, olive and black both sides same as No. 43, old number	7 00

SLEES' PREPARED CARD MOUNTS.

" 35, Rose, pink or primrose	3 75
" 42, Rose, pink or primrose	4 63
" 341, Rose, pink or primrose, advanced	4 13
" 89, Rose, pink or primrose, flowered backs	6 13

COLLINS' CABINET MOUNTS.

PLAIN EDGES, UNENAMELED.	
" 322, Rose, primrose and pearl	4 25
" 167, Rose and primrose	4 75
PLAIN EDGES, ENAMELED BACK, PLAIN FACE.	
" 168, Rose or primrose	6 25
" 82, Rose or primrose, flowered backs	12 00
PLAIN EDGES, ENAMELED FACE, PLAIN BACKS.	
" 117, Maroon and Tea	7 00
" 119, Maroon and Gray	8 25
" 96, Bottle Green and Gray	6 25
" 69, Maroon and Gray, gold border	12 00

CARD STOCK--Continued.

	Per 1000.
PLAIN EDGES, ENAMELED BOTH SIDES.	
No. 129, White and Cream	\$ 4 25
" 115, Cream	6 75
" 113, Cream	8 00
" 97, Bottle Green, Garnet	8 50

THIN TINTED BEVEL EDGES.

No. 85, F. Primrose, pink edge	9 50
" 85, H. " green edge	9 50
" 45, Maroon face, gray back, yel. edge	9 00
" 45, Bottle green face, gray back, yellow edge	7 50
" 71, Gray face and back, white edge	8 50

THIN GOLD BEVEL EDGES.

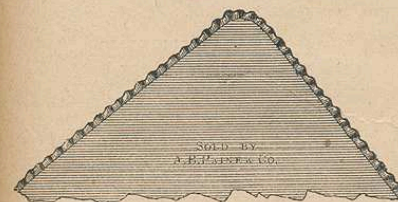
No. 158, Mode face, gray back, new	7 75
" 170, Enameled back, Rose or Primrose	9 50
" 169, Unenameled, Rose or Primrose	8 00
" 107, " " heavier	10 00
" 111, Enameled face, Rose, Primrose or Buff, plain back	10 75
" 124, Enameled both sides, Rose and Primrose	11 00
" 106, Enameled back, Rose or Primrose heavier	10 75
" 126, Maroon face, Gray back	11 00
" 114, Maroon face, Gray back	12 00
" 344, Dark Olive, Bottle Green and Black, Gray back	10 00
" 66, Olive, both sides	13 00
" 66, Maroon, both sides, advanced	15 00
" 72, Enameled, both sides, Bottle Green and Garnet	13 00

SLEES' PREPARED CABINET MOUNTS.

No. 35, Rose or Primrose, plain	8 50
" 341, " " " enameled backs	9 50

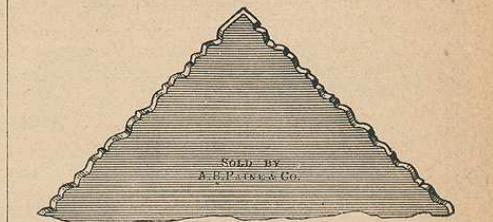
THIN GOLD BEVEL SPANGLED EDGE CARDS.

A RICH AND BEAUTIFUL NOVELTY.



Prices of Cards and Cabinets, as follows, per 1000:	
CARDS.	CABINETS.
No. 187, Dark Olive and Bottle Green	\$8 50 \$13 50
" 178, Rose and Primrose	8 50 13 50
" 176, Maroon and Gray	14 50
" 179, " " both sides	17 50

THIN GOLD BEVEL SERRATED EDGE CARDS.—NEW AND POPULAR.



Notice the Prices of Cards and Cabinets Below--Price per 1000.

	C. D. V.	Cab.
No. 402A, Rose and Primrose, ...	\$6 25	\$
" 405A, Rose and Primrose	6 00	
" 411A, Bottle green, gray	6 75	13 50
" 171, Unenameled Rose and Primrose		10 50
" 172, Enameled back, Plain face. Rose and Primrose		12 00
" 87, Dark Olive, Bottle Green, Rose and Primrose, enameled face, plain b'k		14 00
No. 73—GOLD BEVEL SERRATED EDGE.		
Same stock as No. 26.	Price per 100.	
Cabinet, 4 1/4 x 6 1/2, Rose and Primrose	\$ 1 85	
Panel, 4 x 8 1/4, Rose and Primrose	2 75	
Boudoir, 5 1/4 x 8 1/2, Rose and Primrose	3 38	
Panel, 5 x 10, Rose and Primrose	4 00	
Panel, 6 1/2 x 8 1/2, Rose and Primrose	4 00	
Imperial, 6 7/8 x 9 7/8, Rose and Primrose	4 63	
Panel, 8 x 10, Rose and Primrose	6 50	
Panel, 7 1/2 x 13, Rose and Primrose	7 38	

PANEL CARDS—4 x 8 1/4.

	Per 100.
No. 26, Gold bevel, rose or primrose, heavy	2 00
" 128, Gold bevel, Rose and Primrose	1 60
" 26, Gold bevel, Dark Olive and Bottle Green, both sides	2 25
" 65, Gold bevel, Maroon and Gray	2 00
" 68, Gold bevel, Maroon, both sides	2 70

BOUDOIR CARDS.—SIZE 5 1/4 x 8 1/2.

No. 9, Heavy wt., Rose and Primrose, plain	1 35
" 9, Heavy weight, Maroon and Gray	1 90
" 13, Heavy weight, Rose and Primrose, gilt border	2 10
" 26, Heavy weight, gold bevel, Rose and Primrose	2 50
" 26, Heavy weight, gold bevel, Dark Olive and Bottle Green	2 85
" 67, Heavy weight, Maroon and Gray, gold bevel	2 85
" 68, Heavy weight, Maroon, both sides, gold bevel	3 30
" 9, Sleeves' Prepared, Primrose	1 70

CARD STOCK--Continued.

IMPERIAL CARDS.		Per 100.	Price per 100.	Per Doz.
No. 4c3, Medium weight, plain edge, Rose and Primrose.....	2 00	7 1/2 x 13.	Maroon and Black, only \$13 75	\$1 75
" 9, Heavier weight, plain edge, Rose and Primrose.....	2 10	7 x 14,	" " " 12 50	1 65
" 26, Heavier weight, gold bevel edge, Rose and Primrose.....	3 50	7 x 15,	" only..... 16 25	2 10
" 67, Heavier weight, gold bevel edges, Maroon and Gray.....	4 00	10 3/4 x 13 3/4,	" and Black..... 18 50	2 40
" 68, Heavier weight, gold bevel edges, Maroon, both sides.....	4 75	10 1/2 x 17,	" , Black and Bot- tle Green..... 22 50	3 00
" 26, Heavier weight, gold bevel edges, Bottle Green.....	4 00	13 3/4 x 17,	Maroon, Black and Bot- tle Green..... 31 00	4 00
" 405, Medium weight, gold bevel edges, Rose.....	3 30	16 x 20,	Maroon and Black..... 48 00	6 00
		12 x 20,	" only..... 36 00	4 50
		No 91, ROSE, MAROON, BLACK AND BOT- TLE GREEN.		

LIST OF SIZES AND PRICES OF THIN GOLD BEVEL PANELS,

No. 26, Tinted.	No. 26, Bottle-Green and No. 67 Maroon-Gray.	No. 68 Maroon
4 1/4 x 5 1/4.....	\$1 40	\$.....
5 x 7.....	2 20	.....
5 x 8.....	2 50	.....
5 x 10.....	3 60	3 88
6 1/2 x 8 1/2.....	3 60	3 88
8 x 10.....	5 50	6 13
6 x 12.....	5 50	7 25
7 x 13 1/4.....	5 88	6 50
7 1/2 x 13.....	6 38	7 00
7 x 15.....	7 50	8 38
10 x 12.....	7 50	.....
10 3/4 x 13 3/4.....	7 75	8 63
10 1/2 x 17.....	9 75	11 00

PRICE LIST OF LIGHTER WEIGHT GOLD BEVEL EDGE MOUNTS.

ALL NO. 405, ROSE.	per 100,	\$3 00
5 x 10.....	per 100,	\$3 00
6 x 12.....	"	4 75
7 x 14.....	"	5 25
7 x 15.....	"	6 75

List of Sizes and Prices of Thick Gold Bevel Edge Cards.

No. 90, MAROON, BOTTLE GREEN AND BLACK.	Price Per 100.	Per Doz.
2 1/2 x 4 1/2, Maroon, only.....	\$ 3 00	\$0 40
4 1/4 x 6 1/2, " ".....	4 88	65
4 x 8, " ".....	6 00	80
5 1/4 x 8 1/2, " ".....	7 25	95
5 x 10, " and Black, only.....	7 63	1 05
6 1/2 x 8 1/2, " only.....	7 88	1 00
7 x 9, " ".....	8 50	1 10
6 7/8 x 9 7/8, " ".....	10 25	1 40
6 x 12, " ".....	11 38	1 45
8 x 10, " and Black, only.....	11 38	1 50
10 x 12, " Black and bot- tle green.....	16 25	2 00

A little thinner than No. 90.—Price per hundred.

Dark Colors.	Rose.	
2 1/2 x 4 1/4.....	\$ 2 75	\$ 2 50
4 1/4 x 6 1/2.....	\$ 3 63	3 25
4 x 8.....	4 75	4 25
5 1/4 x 8 1/2.....	5 75	5 00
5 x 10.....	6 00	5 25
6 1/2 x 8 1/2.....	6 00	5 25
7 x 9.....	7 00	6 00
6 7/8 x 9 7/8.....	7 50	6 50
6 x 12.....	9 00	8 00
8 x 10.....	9 00	8 00
10 x 12.....	12 75	11 00
7 1/2 x 13.....	10 25	8 75
10 3/4 x 13 3/4.....	13 25	11 50
10 1/2 x 17.....	17 50	14 75
13 3/4 x 17.....	25 00	21 00
16 x 20.....	35 00	29 00

LIST OF FANCY SHAPE GOLD BEVEL MOUNTS.

No. 26 IN DELICATE TINTS AND MAROON.	Price Per 100.	Per Doz.
Crescent, 5 inch.....	\$5 00	\$ 65
Egg, 3 x 4 1/8.....	4 13	55
Palette, 4 1/2 x 6.....	8 00	1 00
Star, 5 inch.....	8 25	1 00
Bell, 2 1/2 x 5 5/8.....	8 00	1 00
Keystone, 4 x 4 1/4.....	2 50	35
Leaf, 3 1/8 x 6 1/8.....	5 25	70

CIRCLE MOUNTS.

No. 26, TINTED AND MAROON.	Price Per 100.	Per Doz.
3 inch.....	\$ 2 50	\$ 35
4 inch.....	3 20	40
5 inch.....	3 80	50
6 inch.....	5 62	70
8 inch.....	10 00	1 25
9 inch, No. 90, thick.....	26 00	3 15

THE MEDALLION MOUNT.

Rose tint color. Thick Gilt Bevel outside. Thin Gilt Bevel opening. Slide the back out to mount and burnish print, after which, slide it into its place.
5 inch with 3/4 inch opening, per doz.....\$1 75

WE CALL ATTENTION

TO OUR NEW

Card Board with Printed Forms.

In Gilt, Black and India Ink.

	Per 100.
6 1/2 x 8 1/2, No. 1, any size, form square, black.....	\$ 1 90
6 1/2 x 8 1/2, No. 1, " " gilt.....	2 40
6 1/2 x 8 1/2, Ex. No. 1, any size, form square, black.....	2 25
6 1/2 x 8 1/2, Ex. No. 1, " " gilt.....	2 75
8 x 10, No. 1, " " black.....	2 15
8 x 10, No. 1, " " gilt.....	2 65
8 x 10, Ex. No. 1, " " black.....	2 60
8 x 10, Ex. No. 1 " " gilt.....	3 10
8 x 10, No. 34, gilt and India tint, form 5 3/4 x 7 3/4, square.....	3 25
10 x 12, No. 1, any size, form square, black.....	2 75
10 x 12, No. 1, any size, form square, gilt.....	3 25
10 x 12, Ex. No. 1, any size, form square, black.....	3 35
10 x 12, Ex. No. 1, any size, form square, gilt.....	3 85
10 x 12, No. 31, Gilt, form 6 x 8 fancy, square.....	4 50
11 x 14, No. 1, any size, form square, black.....	2 90
11 x 14, No. 60, " " black.....	2 25
11 x 14, No. 60, " " gilt.....	3 00
11 x 14, No. 1, " " gilt.....	3 40
11 x 14, Ex. No. 1, " " black.....	3 75
11 x 14, Ex. No. 1, " " gilt.....	4 25
11 x 14, No. 11, Gilt border, 8 x 10, square, fancy.....	6 00
11 x 14, No. 28, Gilt border and India tint, square, 6 x 8 fancy.....	7 00
11 x 14, No. 30, Gilt border and India tint, square, 7 1/2 x 9 1/2, fancy.....	7 00
14 x 17, No. 32, Gilt border and India tint, square, 10 x 13, fancy.....	13 00

We keep a full stock of the above in regular size forms. If odd size forms are desired it will take a day longer to fill your order, as they will have to be printed. Less than one hundred of the above can only be furnished in regular sizes, which are as follows:

For 6 1/2 x 8 1/2, Cards 4 x 6 and 5 x 7 are regular. | For 10 x 12, Cards 6 x 8, 8 x 10 and 7 x 9 are regular.
For 8 x 10, " 5 x 7 and 5 x 8 " | For 11 x 14, " 6 x 8, 7 x 9 and 8 x 10 "

The printing on these is done in the neatest possible style. On lots of NOT LESS than 100, of No. 1 or Ex. No. 1, WE WILL PRINT THE NAME AND ADDRESS WITHOUT ADDITIONAL CHARGE and any size form desired. On large quantities of No. 1 and Ex. No. 1, all of one size form, we will make SPECIAL PRICES ON APPLICATION.

FIRST QUALITY CARD BOARD.

This is made of the finest material.

	Per 100.		Per Doz.	
	Ex. No. 1.	No. 1.	Ex. No. 1.	No. 1.
25 X 30	\$25 00		\$3 50	
22 X 28	15 00		1 95	
20 X 24	12 50		1 55	
18 X 22	11 50		1 40	
16 X 20 advanced	8 50		1 20	
14 X 17	7 00	\$5 50	85	\$0 70
11 X 14	3 75	3 00	50	40
10 X 12	3 13	2 38	45	35
8 X 10	2 10	1 60	30	25
6 1/2 X 8 1/2	1 50	1 20	20	15

SLEE'S PREPARED CARD BOARD.

No. 1, White Only.

6 1/2 X 8 1/2	per 100, \$1 60	per doz. \$0 25
8 X 10	"	30
10 X 12	"	45
11 X 14	"	55

FERROTYPE ENVELOPES, ETC.

BON TON ENVELOPES, (OPENING 2 X 3 1/8).

No. 11, Buff or pearl cards, with red lines and pink flaps	per 1000, \$2 25
No. 11, Chocolate cards, with gilt lines and brown flaps	" 2 50

PHILADELPHIA ENVELOPES.—Nos. 4, 4 1/2, 5, 6, 9 and 10.

Buff Cards, red borders, pink flaps	\$2 50
No. 4, has 1 3/8 x 1 7/8 opening oval.	
No. 4 1/2 " 1 1/2 x 2 1/4 " "	
No. 5 " 7 5/8 x 2 3/8 " "	
No. 6, has 1 3/4 x 2 1/2 opening oval.	
No. 9, " 1 1/2 x 2 3/4 " "	
No. 10, " 1 3/4 x 3 " "	
No. 20, Cabinet size, pink, arch top opening, 3 3/4 x 5 1/4	\$10 00
No. 21, Half size, pink, round corner opening, 3 1/2 x 4 1/2	8 00
No. 22, Victoria size, pink, round corner openings, 2 3/4 x 4	6 00
No. 22, " " oval openings, 2 5/8 x 3 5/8	6 00
No. 13, Oval openings, 1 7/8 x 3, floral designs	6 00
No. 15, Oval or arch openings, 3 x 4 1/2, pearl cards, pink flaps, for Cabinet size Ferrotypes	4 00

CATERSON'S CASES.—(PATENTED JULY 4, 1882.)

No. 103, Buff or Pearl Cards, red borders, arch top opening 2 x 3 1/4, per thousand	\$1 75
No. 103, " " " " round corner opening 2 1/8 x 3 3/8 per thousand	1 75

CATERSON'S IMPROVED FERROTYPE HOLDERS.

(Patent Issued October 21st, 1873.)

No. 6, Rose, oval openings, per thousand	\$ 4 00
No. 9 and 10, Rose, arch top openings, per thousand	4 00
No. 30, Rose, oval and arch	4 25
No. 31, " " "	18 00

Prices for Card Printing.

IN BLACK INK.

500 or less	\$0 50
1000 or over 500	75

IN COLORED INK.

500 or less	\$0 60
1000 or over 500	85

IN GOLD INK.

500 or less	\$1 00
1000 or over 500	1 25

NOTE.—The above scale of prices apply to "EACH FORM," as should changes (either in the matter, or to cover more space) be required, an extra charge may be necessary, even if the printing is but for 500, 1000 or less.

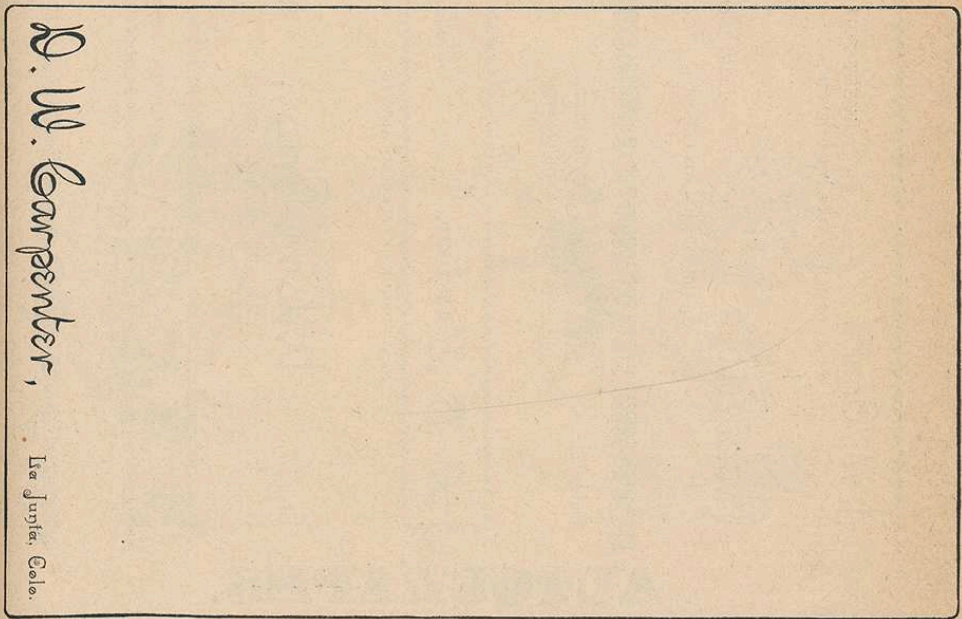
BLACK INK should never be used on face of card, as it contains "fatty matter" and is liable to blur in burnishing. SEPIA or GOLD should be used for that purpose.

BRONZE should only be used on enameled or very smooth surface, otherwise it must necessarily appear rough and very unsatisfactory.

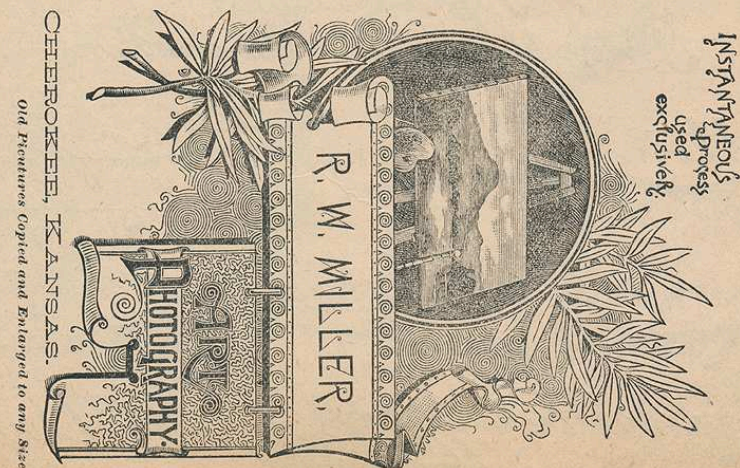
PREPARED CARDS cannot be printed on the face, as the ink blurs in burnishing.

Designs for Printing Mounts.

ORDER BY NUMBER.



Design No. 38. with face line



Design No. 37.

CHEEPOKEE, KANSAS.
Old Pictures Copied and Enlarged to any Size.

Designs for Printing Face Mounts--Continued.

J. M. Smith,
WEST POINT, MISS.
No. 39--DESIGN OF FACE FOR CABINETS.

Pickerill,
Little Rock, Ark.
No. 40--DESIGN OF FACE FOR CABINETS.

R. H. Gosard,
Kansas.
Caldwell,
No. 41--DESIGN OF FACE FOR CABINETS.

A. B. Harder,
Cor. 4th and Poplar Sts.,
JOPLIN, MO.
No. 42--DESIGN OF FACE FOR CABINETS.

Wilson Bros.,
California.
Elsinore,
No. 43--DESIGN OF FACE FOR CABINETS.

H. M. Booth,
RICH HILL, MO.
No. 44--DESIGN OF FACE FOR CABINETS.

Madell & Moody,
Warrensburg, Mo.
No. 45--DESIGN OF FACE FOR CABINETS.

AUTOGRAPHS.

Price for Autograph with one Electro, \$1.75 to \$3.00; Monograms, \$2.50 to \$5.00.

F. F. Standiford
Photographer, Parsons, Kan.

Letton *D. F. Goben* *Gregg*

Swartz *O. G. Glass* *Tripp*
PHOTOGRAPHER

Alexander *McLain* *Hillyer*

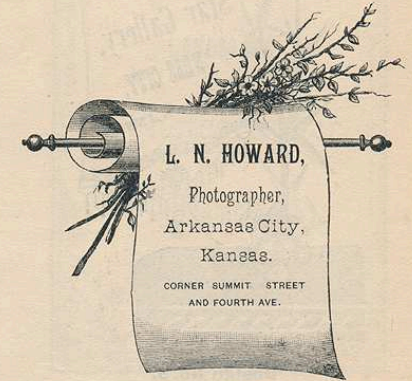
Designs for Printing Mounts.

ORDER BY NUMBER.

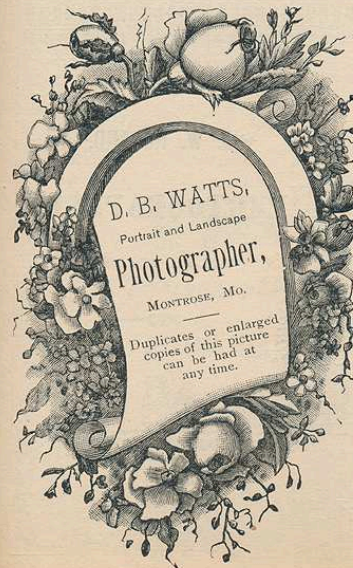
The Numbers of these Designs take the place of those Previously issued.



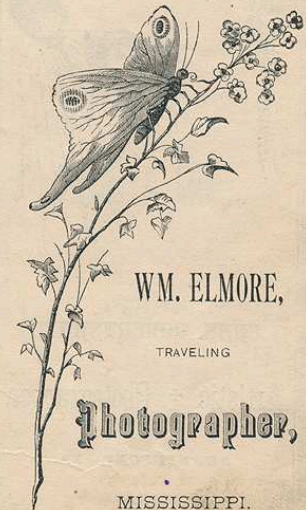
Design No. 1.



Design No. 2.

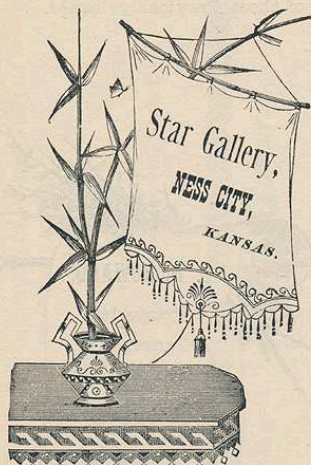


Design No. 3.



Design No. 4.

DESIGNS FOR PRINTING MOUNTS--Continued.

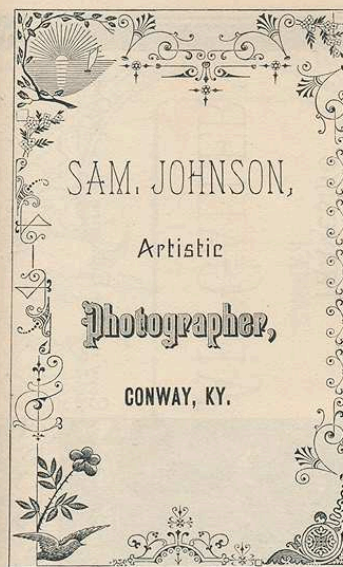


Design No. 5.

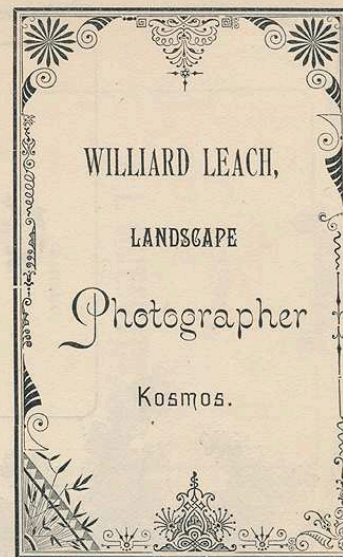


Design No. 6.

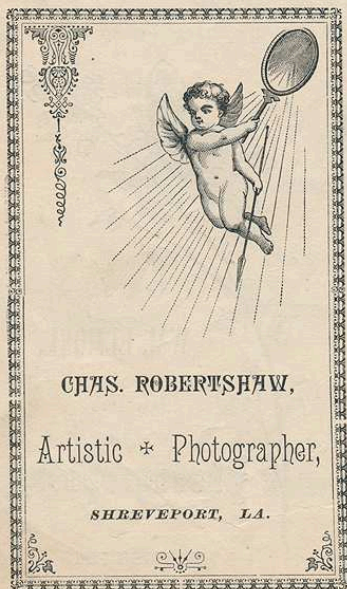
Designs for Printing Mounts--Continued.



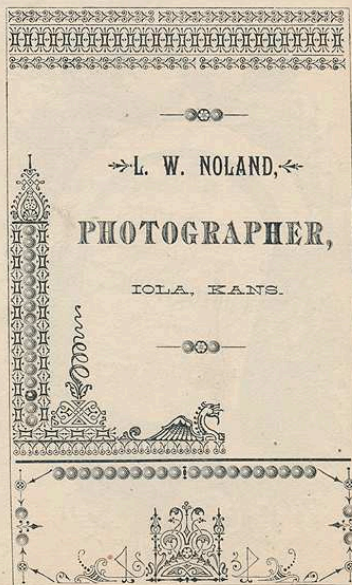
Design No. 9.



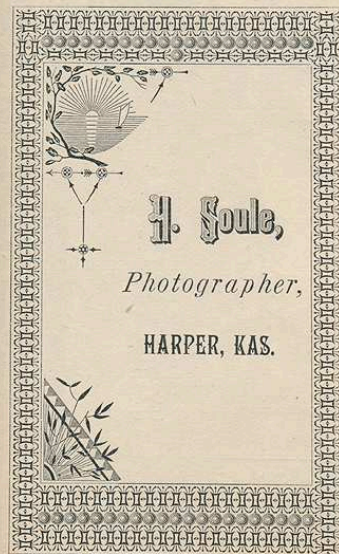
Design No. 11.



Design No. 7.



Design No. 8.

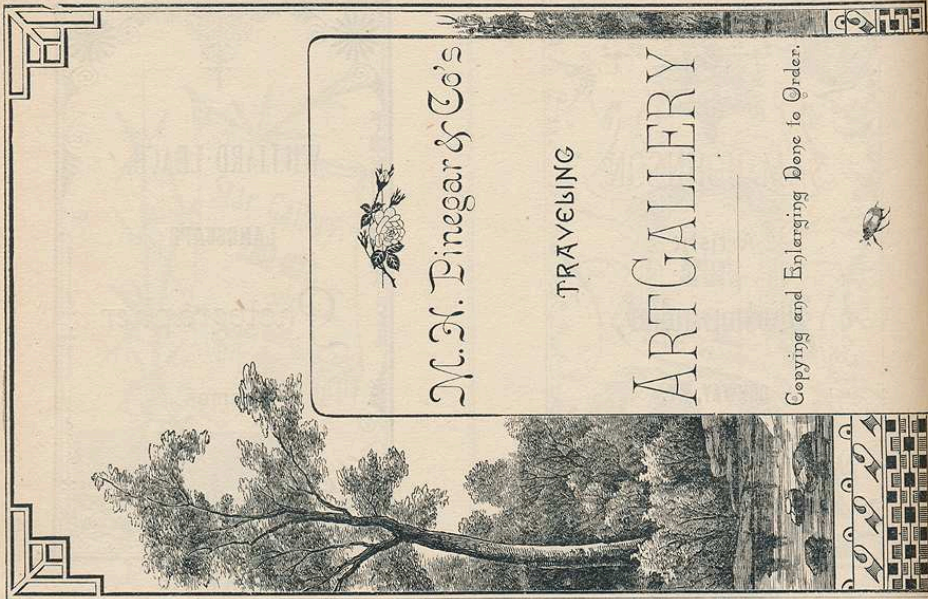


Design No. 10.

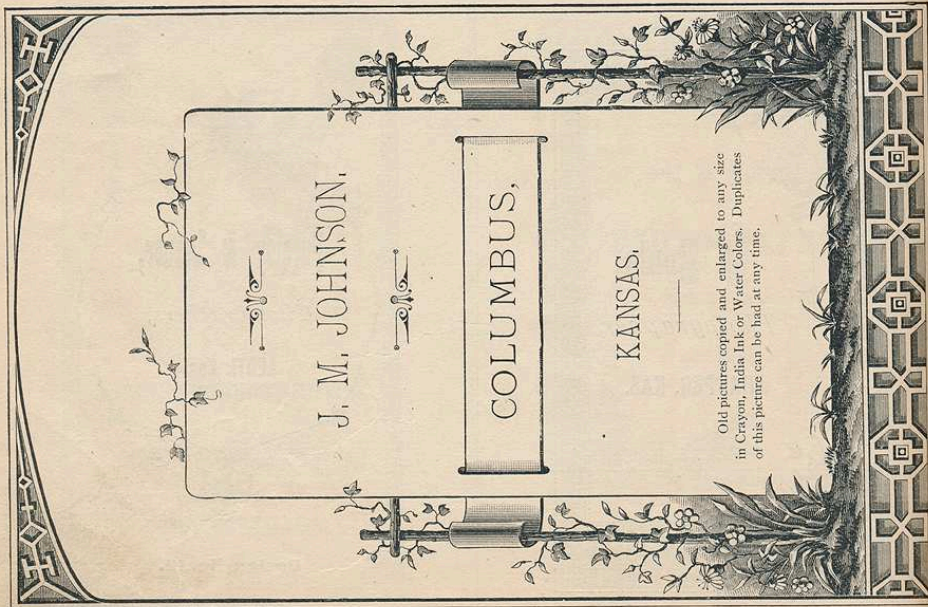


Design No. 12.

DESIGNS FOR PRINTING MOUNTS--Continued.

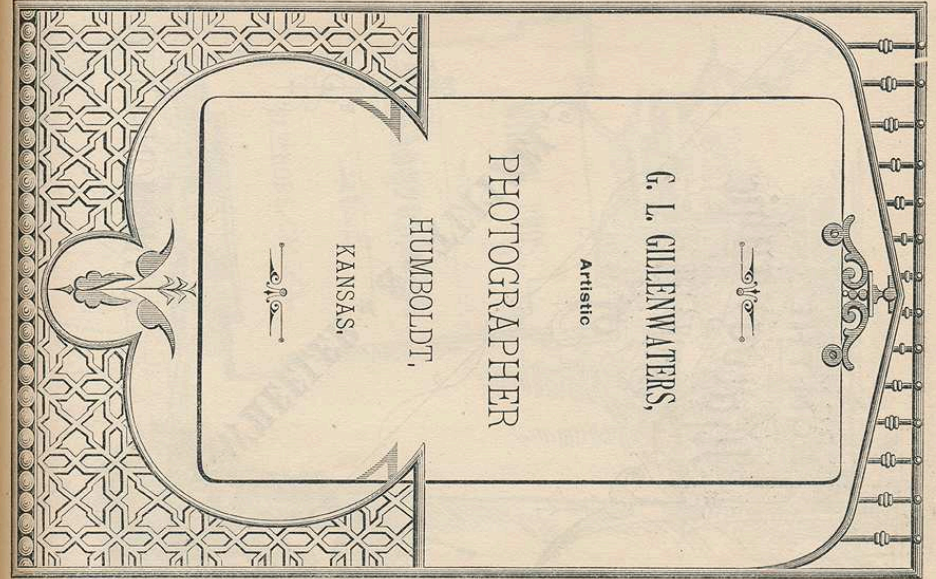


Design No. 13.

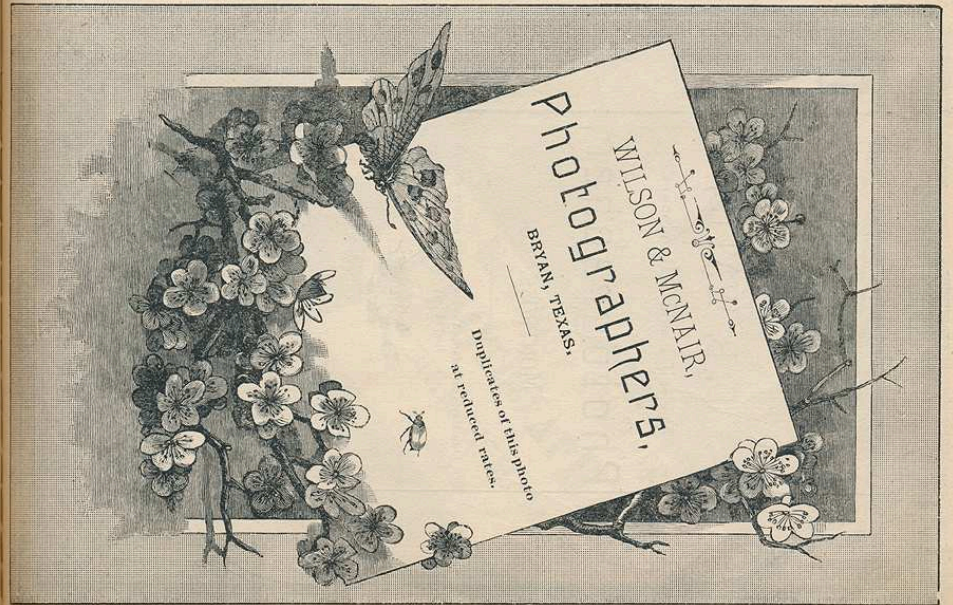


Design No. 14.

DESIGNS FOR PRINTING MOUNTS-Continued.

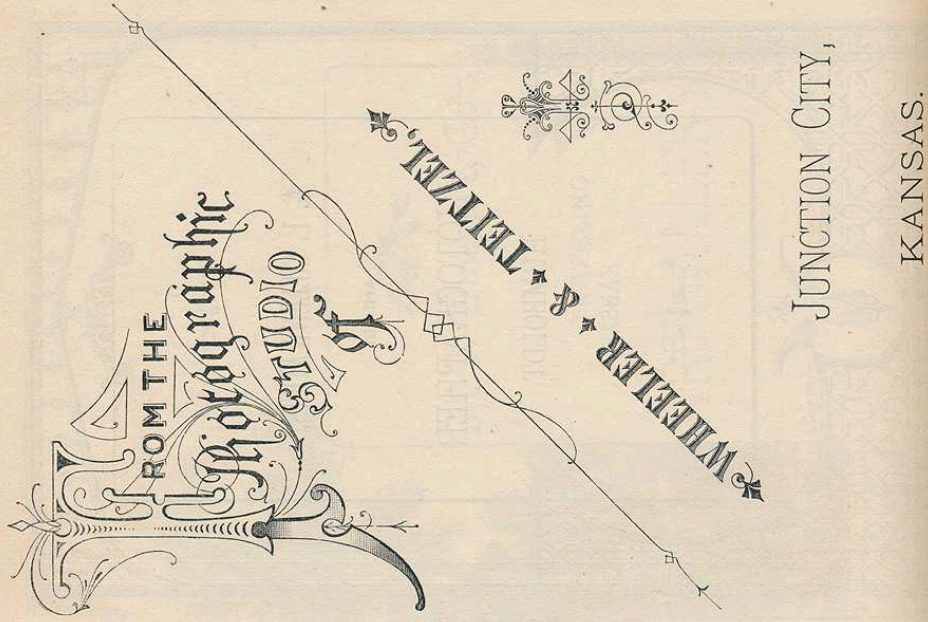


Design No. 15.



Design No. 16.

DESIGNS FOR PRINTING MOUNTS--Continued.

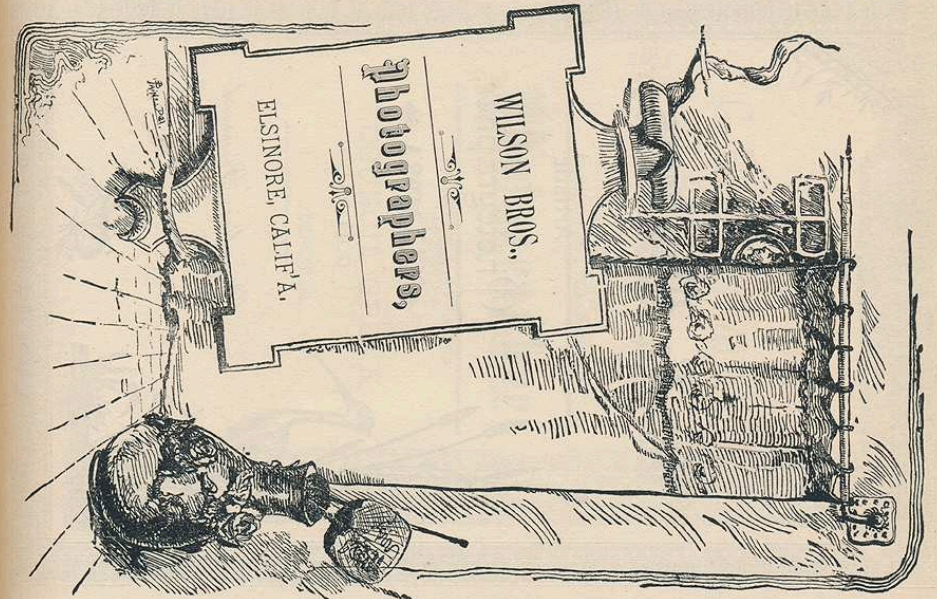


Design No. 17.



Design No. 18.

Designs for Printing Mounts--Continued.

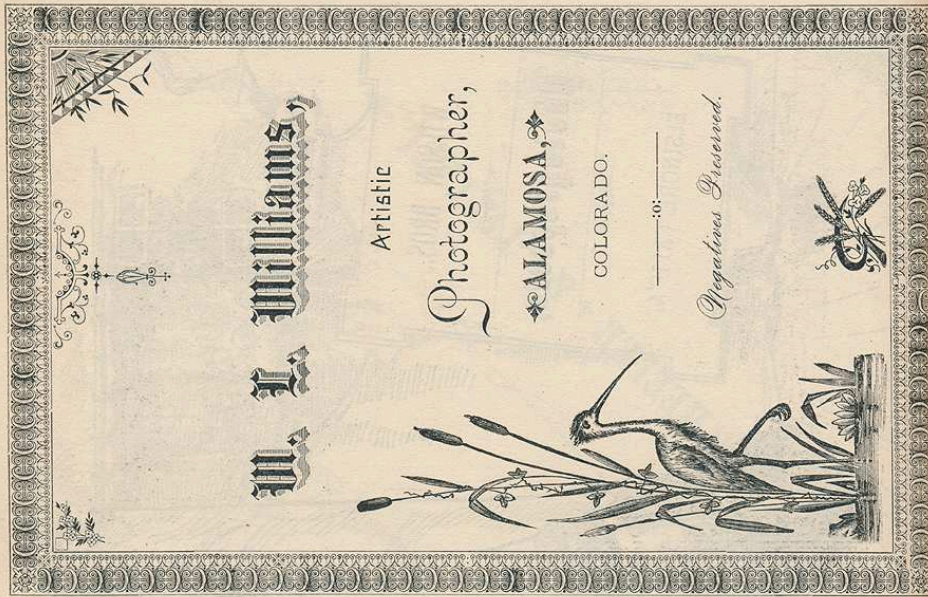


Design No. 19.

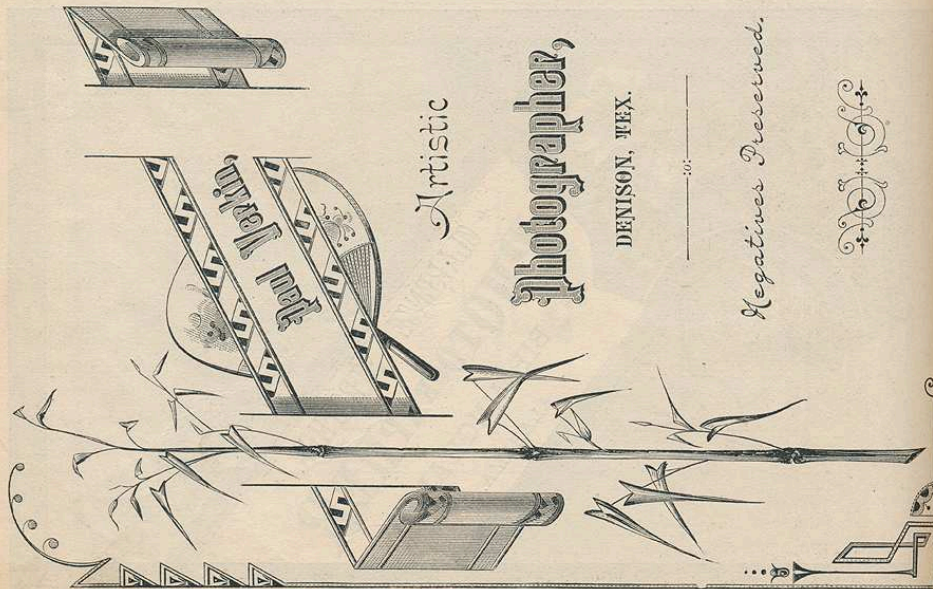


Design No. 20.

Designs for Printing Mounts--Continued.

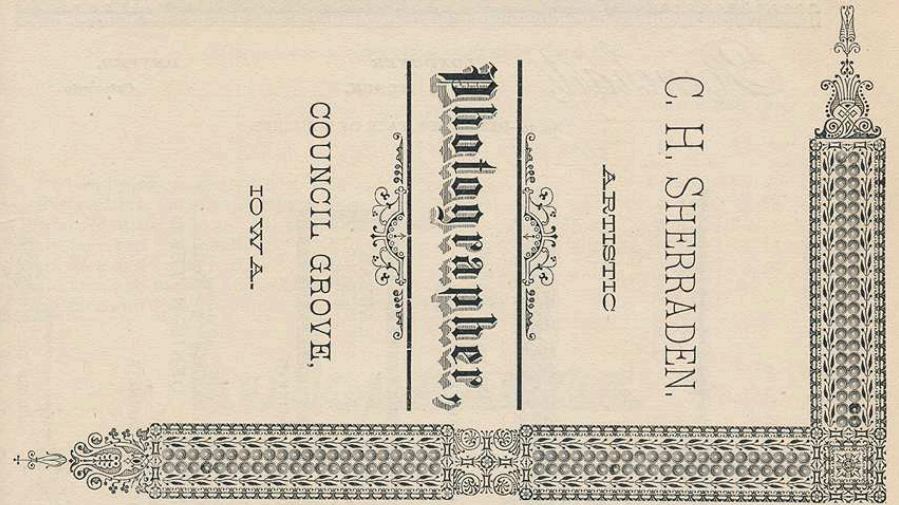


Design No. 21.

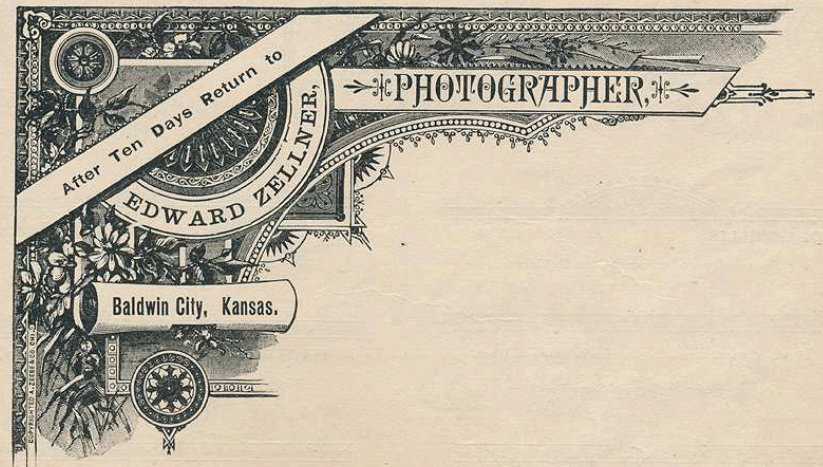


Design No. 22.

Designs For Printing Mounts--Continued.



Design No. 23.



Design for Mailing Envelope.

Designs for Printing Face of Mounts--Continued.

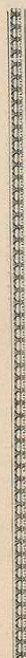


Reinchart,

LONDONER
BLOCK,

DENVER,
Colorado.

No. 24--DESIGN FOR FACE OF BOUDOIRS.



Council Gröve,
Kansas.

No. 25--DESIGN FOR FACE OF CABINETS.

Apington,



Lincoln, Neb.

No. 26--DESIGN OF FACE FOR CABINETS.

Waltermire,



Lacygpe, Kansas.

No. 27--DESIGN OF FACE FOR CABINETS.

John Young,



No. 28--DESIGN OF FACE FOR CABINETS.



No. 29--DESIGN OF FACE FOR CABINETS.



No. 30--DESIGN FOR FACE OF CABINETS.



No. 31--Design for Face of Carte De Visites.



No. 32--Design for Face of Carte De Visites.



No. 33--Design for Face of Carte De Visites.



No. 34--Design for Face of Carte De Visites.



No. 35--Design for Face of Carte De Visites.



No. 63--Design for Face of Carte De Visites.

PRICE LIST

STEREOSCOPIC MOUNTS.

These were accidentally omitted in Card List.

	PRICE PER 1090.			
	3 1/2 x 7	4 x 7	4 1/2 x 7	5 x 8
No. 6 1/2, Red and pink, enameled both side.....	.....	\$5 50	\$6 25	\$9 50
No. 6 1/2, Buff and tea, enameled on back only.....	.....	5 13	5 88	9 00
No. 35, Primrose, plain face and back, SLEES' PREPARED.....	\$7 25	8 25	.....	.....
No. 5, Plain face and back, buff, ".....	7 75	8 75	10 25	.....
No. 5, Plain face and back, buff, not ".....	5 75	6 50	7 50	10 50
No. 9, Plain face and back, primrose heavy.....	.....	.....	.....	12 50
No. 9, Plain face and back, primrose heavy, SLEES' PREPARED.....	.....	.....	.....	16 00

AUTOGRAPHS.

Price for Autograph with one Electro, \$1 75 to \$3 00; Monograms, \$2 50 to \$5 00.

Howard & Holderness *Edmiston*
Tresslar & Ford *L. Gillingham*
Prettyman *Dean* *Hunter*
Cunningham *Ritchie Bros* *Fields*
True *Rogers* *Tresslar* *Limney*
Geo. R. Calohan *Gibbard* *Robinson*,
Nims *Dobler* *A. B. Paine* *Swartz*
Davenport *M. Brown* *Robertshaw*.

SIMPLE METHODS and PRACTICAL SUGGESTIONS.

In writing the following hints and suggestions, I have consulted no books of reference. I have written entirely from memory and from experience derived in my own practice. I do not claim that my way is the best or the easiest, but the methods I give here are simple and have always given me good results, and are precisely what I should use if I were to take up the profession again to-morrow.

Fraternally yours,

A. B. PAINE.

HOW TO MAKE A FERROTYPE, (For Beginners.)

THE THINGS NEEDED. See also page 58.

- A tent or skylight, and dark-room.
- A camera and camera stand.
- A lens or set of four lenses.
- Two head rests, one tall and one short.
- A pair of strong shears.
- A camel hair duster.
- A glass bath dish or tub.
- A bath dipper.
- An evaporating dish.
- Two glass funnels, pint and quart.
- A glass graduate, 4 or 8 oz.
- A focusing cloth.
- A hydrometer.
- A Coal-oil stove.
- Several clean bottles and clean corks.
- Two or three sable pencil brushes.
- A background.
- A chair.
- A glass mortar and pestle.
- An 8 x 10 shallow porcelain tray.
- 1 dozen 10x14 tin plates.
- 1 set scales and weights.
- A package of filtering paper or cotton.
- A bottle of collodion.
- A gold saucer.
- A few boxes of dry color for tinting.
- 100 Bon Ton or other styles Ferro slips.
- A bottle of Ferro varnish.
- A sheet of blue litmus paper.
- 4 oz. nitrate of silver.
- 1 lb. of iron proto. sulph.
- ½ lb. Cyanide potass.
- 1 lb. acetic acid.
- 1 oz. nitric acid.
- 1 oz. tincture of Iodine.
- ½ pint of 95% alcohol.

HOW TO GO TO WORK.

With the shears mentioned above, cut the tin-plate the proper size for the holder or kit, being careful not to cut it too large, or great annoyance will be the after result, and also being careful not to touch the plate on the glossy side with the fingers. Dust this side carefully, standing by the door of your dark room, where your collodion and bath are

both handy. Be sure that there are no finger marks, greasiness or dampness on the surface of your plate. Remember that *cleanliness is the keynote of a photographer's success.*

After you are sure that your plate is clean and free from dust, take it in the left hand by the corner and flow the collodion evenly, pouring it onto the end farthest from you, allowing it to spread over the entire surface and draining back into the bottle from the lower right hand corner, holding the plate now nearly upright and rocking gently so that the surface will form evenly. The collodion will begin to set almost immediately and as soon as it is about the consistency of jelly it must be put into the silver bath, (see formulæ) which must be kept in a box, where the *light cannot strike it when the dark-room door is open* and which should also have a hinged cover to keep out light and dust.

Raise the dipper from the solution, letting the prongs rest on the edge of the bath dish, place the plate on the prongs, *Collodion side up*, and lower it gently and steadily into the bath, *thin edge of the collodion down*. If the plate falls off the dipper as it often does with a beginner, you must fish it out with a clean piece of wood which it will be well to have handy for the purpose. If your plate goes down all right, go out of your dark room and *close the door, now pose your subject* and focus your camera. Do not pose your subject the first thing, and have the poor sufferer waiting there half-an-hour, while you are fishing two or three plates out of your bath. There is always plenty of time to pose and focus while your plate is coating. After your subject is ready go into your dark-room and *close the door tight*. Raise the plate *slowly* from the bath, take a look at it by *your yellow light*, (of which you want plenty), to see that the surface is evenly coated and and not streaky or scratched. If streaky it has not been in long enough; if scratched (where it will come in the picture) throw it away. When it is all right, it will have a creamy color, and the silver solution will flow off of it smoothly and not in greasy streaks. It is then ready to put into the plate holder, but should first be drained of as much silver as will run off easily, which you may let drip back into the bath from one corner of the plate. Now place your plate in the plate holder (which should

sit on a convenient shelf at a sufficient angle to prevent the plate from falling out when you let go of it). Keep the collodion side from you and toward the slide of the holder, and keep the plate in the *same position as it came out of the bath*. Now have a clean piece of glass handy, the same size as your picture, and place this glass behind your plate for the holder spring to rest on to hold the plate in place. Shut your plate holder and open your dark room door. Take a final look at your subject, setting your plate holder in the meantime where you will kick it over as unfrequently as possible, and keeping it always in the same position. Give your subject something to look at, cover your camera with the focusing cloth which should be large enough to extend back over the plate holder, cap your lens and draw the holder slide with a brave heart and a steady hand. Take the slide in your left hand and hold it so as to shade the lens from the top light while you uncap with the right; now say "steady" to your sitter, breathe a silent prayer, and remove the cap. If you are using a quick collodion like "The New Rich and Rapid," and have a reasonably strong light, and are working with gem lenses or regular portrait lenses, from one to five seconds exposure will be sufficient, but this depends on too many things to be governed by any rule, and can only be told by making two or three exposures of different lengths. When you think you have exposed long enough, recap your lens, replace your slide, (always keeping it square both in drawing and replacing) remove your plate holder and return to your dark-room. See that your developer (see formulæ) is all right and then *close the door*. Put your holder in its former position, take out the plate, slide the glass from behind it, take it by the lower left hand corner, hold it where you can see plainly from your yellow light; flow just enough developer over it to cover it without running off any more than absolutely necessary, and making sure to cover it all over the first time as otherwise it will show a mark on the picture when finished. Now hold your plate level, giving it a very gentle rocking motion. Your picture will begin to show almost immediately unless the time of exposure has been too short. When the detail (outlines) is well out in the lights, and beginning to show pretty well in the shadows, it is time to stop the development; this is done by turning the water faucet on and allowing enough water to flow over the plate to wash off the developer thoroughly. Now open your dark-room door and do the rest of your work in daylight, have the Cyanide solution (see formulæ) mixed in the 8x10 porcelain tray, and covered over by a clear 10 x 12 glass to prevent the

poisonous fumes from escaping, and so you can watch the process of clearing without lifting it up any more than necessary; when the white film is entirely cut away from the picture take out the plate being careful to get just as little cyanide on your fingers as possible, and to cover the tray again with the glass. Now wash the picture under the faucet thoroughly, then show it to your customer, and if satisfactory proceed to dry it over the coal oil stove or lamp, being careful not to dry too fast thereby heating it too hot. Now tint the cheeks a trifle if desired, and do such other tinting of jewelry, &c., as is wanted. By this time your plate is cool and ready to varnish—flow this in the same manner as collodion, (some varnish dries with heat, but a beginner had better use the self-drying). When the varnish is dry cut the picture small enough to fit your slip or envelope, slide it in carefully, and the work is done.

Remember always, that *clean dishes and clean hands* and scrupulous carefulness in all your manipulation are things that are absolutely necessary to the production of clean work.

Never use your hydrometer for anything but silver.

Never use a bottle for more than one thing.

Never use a cork that you are not sure is clean.

Never use a graduate without giving it a thorough washing.

Never allow a drop of water to go into your silver bath that is not distilled water, ice water, or rain water caught in a *perfectly* clean tray just as it falls from heaven, without touching a roof or anything else. Great trouble is caused by carelessness in rinsing out a bath dish with well or cistern water and then pouring a bath into it while it is still wet. There is enough contamination in that little water sticking to the glass to cause the unlucky photographer such misery as will make him wish he had died in his innocent youth. If you wash your dish with well water be sure and rinse it *twice* afterwards with distilled water, and a third time with a little alcohol would be better.

FORMULÆ FOR FERROTYPE WORK.

THE SILVER BATH.

This is the most important and most delicate creature known to photographic chemistry. More tears have been shed and more souls wrung with misery over this treacherous being than anything ever invented by man. I make it as follows: using the same proportion for more or less as required:

Put 38 oz. of pure ice or distilled water in a new bottle, add 3 oz. of nitrate of silver. Set this in the sun for at least one day—two will be better. If it

remains perfectly clear the water was pure and it is ready to use, if it turns dark there is impurity in the water and it must be left in the sun until this impurity settles when it may be filtered off, and the bath will then be clear and pure. Now add to it 3 or 4 drops of C. P. nitric acid.

Have your bath tub perfectly clean and dry and in its proper place in the dark room; pour the bath into it and then take a glass that will just go into it and cleanse it perfectly clean with alcohol. Coat it with the collodion you are going to use. Put it in the dark room and leave it in there over night. In the morning take it out and you are ready for business.

If there is a slight mist over your pictures at first, your bath is not acid enough and you may add a drop or two more of C. P. nitric, after which try another exposure giving plenty of time.

THE DEVELOPER.

This is easy to make and rarely causes any trouble. Water 12 oz.; proto sulphate iron 1 oz.; acetic acid 4 oz. Grind the iron in a mortar, dissolve in the water and add the acetic acid, let it settle clear and it is ready for use. Some use $\frac{1}{2}$ oz. iron, and $\frac{1}{2}$ oz. iron and ammonia which is very good.

THE FIXING OR CLEARING BATH.

One quart water to one or two lumps of cyanide potassium about the size of a hickory nut. Easy to make and never causes any trouble, but is a deadly poison and should not be kept in the dark-room, and kept from the hands as much as possible.

STEAMING THE SILVER BATH.

When your bath has been used sometime you will find the developer does not flow easily—you may then add 1 oz. of alcohol to each pint of developer, leaving out 1 oz. of acetic acid, and when you have leisure, steam your bath in an evaporating dish to rid it of the alcohol and ether it has collected from the collodion. Test your bath for strength often and keep it always about 35 by adding silver or pure water as the case may be. After steaming it will naturally require a little water, unless it was weak before, in which case it will require both.

REMOVING THE IODIDE.

Later on your bath will become overcharged with iodides, and your picture will be full of minute black specks. To remove the surplus iodide proceed as follows: Add enough conc. ammonia, drop at a time, until the litmus paper turns slowly from red to blue. Steam in your evaporating dish until you have reduced the quantity about one-third, now pour about this same amount of pure water into your bath bottle, (that is to say, about one-third as

much as you now have solution) and after your bath has cooled a little in the dish so as not to break the bottle, pour it into the bottle, adding it to the water therein. It will immediately turn milky. This milkiness is caused by the precipitation of the iodide which you must now filter out *at once*, until you have filtered your bath perfectly clean. Then test it for strength, make it slightly acid again, and it will work better than ever.

FUSING.

By and by, after long use and *abuse* your bath may become so demoralized that nothing will seem to help it, then it must be fused, that is, everything must be burnt out by fire, leaving the silver only. To do this, proceed as in steaming, only be careful to add fifteen or twenty drops of pure nitric acid to prevent explosion when the bath fuses. Boil steadily until you have reduced the quantity of solution, until nothing remains in the dish but a blustering, hissing pool at the bottom, that performs queer antics when you touch it with a stick. There will also be a little pool of clear solution which refuses to boil, no matter how hot you heat it, this is the silver. Now heat it until a straw or a splinter touched to it catches fire. When this happens the bath is fused and the foreign matter has been reduced to ashes. Turn out your light and let the dish set until cool, when the silver will be found in the bottom, hardened like candy. Now light your stove again, and pour pure water in the dish and dissolve the mass at the bottom by slow heat; when all is dissolved you may filter out the ashes and you have the best silver bath ever made. This seldom requires any iodizing. Test for acidity, and make it slightly acid as in the beginning.

In fusing be careful to cover up everything of value, as the steam contains minute particles of silver which will settle and make black specks over everything in the room.

Never use old dirty kits in your plate holder. You will spoil enough pictures to pay for a new kit in two hours. Always keep the holder dusted out well. Never depend entirely on one bath, have two or three, and all in order; otherwise you will get left just when the house is full of customers. Circus day for instance. You can never tell when a bath is going to kick, so be prepared for the emergency. More than once on a bright summer morning, when a large number of country people were expected in, (generally Saturday) I have gone down to the gallery to test my bath and have everything in apple pie order for the days work. After filtering and strengthening I have tried a plate and found every thing working

beautifully, no sign of fog, pinhole or other defect, and I would feel happy in the anticipation of a good days work. After a while customers begin to drop in and I get more and more in a happy frame of mind as the dollars began to count up. Truly, I think, this is not a bad business after all. By and by the gallery is full, there are two or three babies waiting fretfully, and I am hurrying along to get up to them and have it over. It is about one o'clock and I have had no dinner yet, but do not mind it as long as business is moving on. I have a group to make of a girl and her "feller." Naturally she laughs just at the wrong time. It is the first plate I have lost to-day, and in my hurry, I naturally feel a little vexed, but I put in another and cautioning them gravely to be perfectly still. I expose again—this time they *are* still, and the picture is good, but suddenly I notice a defect on the plate. It would not be noticed only it happens to come right in the dear girls mouth. I casually remark to them that they *moved a little*, and that I have got to make another. I feel a presentiment that I am going to have trouble—I begin to have an animosity for this poor innocent couple as having been the beginning of my bad luck. I expose again, the defects are worse. I tell them the picture does not exactly suit me, (it won't do to work the moving excuse on them again). I make another, worse and worse—still I am "not suited," and they must sit again. I open a new bottle of collodion and try another—no relief. I mix up a new developer still just the same, I drop some acid in my bath but can see no difference. The two babies in the front room have broken out into open rebellion, and things are getting desperate. I go into my dark room and shut the door, and leaning against it try to think. I hear the dear girl under the skylight softly remark, "why John we never had to sit so many times before, that other "feller" used to take picters lots quicker than this un." I say to myself in anguish, "what under heaven shall I do." I hear new arrivals coming in, among which there is at least one new baby, who joins in the chorus the moment he comes in. There is a murmur of dissatisfaction beginning to be heard. Customers are commencing to wonder what is the matter. An old lady sitting close to the dark room, says, in a loudly subdued voice, "I don't believe he knows much about picter takin' anyway." The iron enters my soul, I am desperate and will do something or die. I come out with a smiling face to tell my sitters that I am sorry to cause any delay, but that I had to stop to make up some chemical I run out of. I step out into the waiting room and tell them a similar yarn. I speak to the

babies and chuck them under the chin, while all the time down in my wretched soul I am saying to myself "what shall I do! what shall I do!" I resolve to make one more exposure and die. Suicide will be a relief to such a miserable existence. Smilingly I go back to my sitters, who were sweating and spooning under the skylight, and tell them desperately that I will soon be through with them now. Sadly I go in and coat my plate and mechanically, I go through the operation of exposing and development. Suddenly a thrill of new life goes over me, I cannot believe my own eyes—the picture is perfect, there is not a sign of the blemish any where. It has disappeared as mysteriously as it came. I am a new man again. I forget that I am hungry, hot and worn out. For a few more sittings I am a little afraid of its re-appearance but it is gone to stay. The babies have quit crying, the old lady is delighted with her picture, and life has assumed a new glory.

It is impossible to tell the reason of such an occurrence. I doubt if any chemist living could do it, I only know that it has happened to me, and more than once. Of course trouble of this kind does not always disappear of itself, nor is it always so persistent as to defy all remedies. Sometimes a sudden thought will strike the unfortunate photographer, the application of which will afford immediate relief.

I remember once my bath refused to work at all. It seemed to be perfectly pure and of the proper strength and acidity, but be as careful as I might I could not develop the least sign of an image on the plate. The whole seemed to be covered with a thick veil of solid fog. At last in a fit of despair I threw a lump of cyanide into it, and upon trying another plate out of curiosity I was surprised to find that my trouble had disappeared, and from that time on the bath was in prime condition.

I am not chemist enough to explain what chemical change took place in that bath, but the result was as I have described.

Bear in mind that the trouble is not always in the bath, and it is always well to look for it every place else before doing any thing to the silver. At another time I was troubled all day with streaks which I could not account for, and tried a hundred useless remedies only to find that the trouble was in the kit, which had been coated with asphaltum the day before, and not being thoroughly dry, the solution on the plate when it came from the bath, softened it just enough to make an opaque streak. A friend of mine told me how he was once on the verge of insanity, when he suddenly found that his water tank had been filled with salt water which

was *fixing* things for him without the use of cyanide. And so it goes.

Sometimes the collodion does not harmonize with the bath. A strongly acid bath requires a red collodion and the more neutral the bath is the lighter colored the collodion should be. A pale straw color is the best for a bath made after my formulæ. When collodion is too light in color add a few drops of tincture of iodine. It is always a good plan to use one make of collodion right along, and if you find it advisable to change, it is well to steam your bath a little and precipitate the iodide as I have described. Then re-iodize with the new collodion in the same manner as described for a new bath except that leaving the plate in two or three hours will be sufficient for the purpose. It is positively necessary for the iodides in the collodion and bath to harmonize, and the silver will take just what it needs from the collodionized plate. And last of all let me caution you again to keep every dish and every bottle pure and clean, and don't "monkey" with the bath until it needs it, it will need it soon enough.

NEGATIVE MAKING.

The wet process of negative making is conducted the same as the making of a tintype, excepting the use of a 45 grain bath and clean glass plates carefully albumenized. The exposure must be about double as long, and the development carried until the lights begin to disappear and the detail in the shadows well brought out. Negatives are cleared in a solution of hyposulphite of soda instead of cyanide of potassium. No formulæ necessary for mixing it, a pint of water and a few lumps of soda are all that is required. The negative is varnished with negative varnish, (the Lavender is usually preferred) which dries with a gentle heat.

Very few are, using wet plates for negatives now, and those that are, usually are well posted, so I pass over them with a sigh of regret for the good old days that are gone.

DRY PLATES.

The formulæ for working these come with each package of plates.

I will therefore simply say that to insure success you must have your dark-room *absolutely* free from *day-light*, and with the new lightning plates you must have your red-light very much *subdued*. The slower plates are much the easiest to manipulate. Have your dark-room *window large*. It can't be too large, have all the light you can get of the *right kind*. If your dark-room is situated where the light does not strike direct, one thickness of dark ruby glass is usually enough. A good way is to have a

red curtain on the outside of your ruby light, which you raise and lower by a string from the inside. With a little ingenuity you can arrange this and you can then control your light perfectly.

In making a negative be sure you dust your plate thoroughly and, after exposing, always mix your developer before closing your dark-room door, pour your developer into your tray and tip it so the solution is all in one end. Then lay your plate in quickly and carefully, at the same time tipping the tray so that the solution flows back evenly over the plate, this is better than pouring on the developer from a graduate as air bubbles are much more liable to form by the pouring process.

There is no rule for development, different plates develops entirely different. With some the image begins to show almost at once, with others it does not appear for twenty or thirty seconds—and it is impossible to give any rule for telling when a plate is developed. Experience only will do it. Rocking a plate during development gives it intensity, an over-timed plate should therefore be rocked vigorously while an under-timed plate must lie perfectly still.

For making and developing a negative the following requisites are needful:

A dark-room arranged as light-tight and convenient as possible.

A good lens. (See "Something About Lenses," page 2).

A perfectly light-tight camera and plate-holder.

A dozen plates.

A camel hair duster.

A rubber developing tray. (Never use japanned trays for developing).

A focusing cloth.

A porcelain or wooden tray for clearing solution.

A convenient place for washing your plates with running water, if possible.

A set of scales and weights.

Chemicals as named in formulæ which accompany each package of plates.

A minim graduate.

A larger graduate.

Several clean bottles.

The manipulation of a dry plate is the same as a wet plate, except that as the plate comes ready prepared no bath or collodion is used. The plate is ready for the holder as soon as it is taken out of the box and dusted off. All of which must be done by red light only. The clearing or fixing must also be done in the dark room. The formulæ for this and many other useful hints will also be found on the circular accompanying the plates. In fact there is so little left to tell after reading one of

these circulars that I will not carry this subject farther. I will say however in closing, that while I have exposed at times in my life from forty to sixty plates a day, for months, I never yet found a bad Cramer, St. Louis or Seed plate. Sometimes I *thought* I had, but afterwards found that the fault was with myself. It is natural for us to blame our tools first when anything is wrong, and ninety-nine times out of a hundred the fault is our own.

SILVER PRINTING.

There is rarely a day passes that I do not answer from one to five letters regarding the various miseries and afflictions of photographers, all over the west, who are having trouble with their printing. Generally I can relieve them, or at least put them in a way to relieve themselves, but sometimes the mysteries of measles, blisters, mealiness, softening, &c., &c., seem to defy everything until suddenly they disappear of their own accord as mysteriously as they came.

I intend to give here as simple and concise a method for printing and toning as I know, and one with which I know the best of work has been produced. Such work as is done by the galleries of J. F. Rider, P. H. Rose, and others equally good. After which I will give a few of the best known remedies for the various afflictions that albumen paper is heir to.

THE PRINTING BATH.

Take pure ice water or distilled water, 1 quart; add pure nitrate of silver, 4 oz. This makes a strength of about 55, and may be used a trifle weaker in summer or stronger in winter if desired. Any amount desired can of course be made in the same proportion. Set this in the sun for a day or two until all impurities settle, then filter clear and your bath is ready for use. I usually keep a lump of alumn in the funnel that I filter my bath through, but I have never found any use for nitrate of ammonia or any other chemical in a new bath, except silver and water.

Silver your paper the same day you are going to print. *The sooner the paper is fumed and printed after silvering the better.* Paper silvered over night prints hard and tones slowly. My plan was always as follows: Get up early and go to the gallery before breakfast. If it is in the winter and your bath is cold, set it by the stove while you are counting out your paper and cleaning your silvering dish *perfectly clean*. This is important, and it is also important to never use your silvering dish for anything else. If you wash your silver tray out be sure that you wipe it dry with a clean cloth before pouring your bath into it. Turn your bath occasionally as it

sets by the stove, and shake it up a little so it will get warmed through, just enough to take off the icy chill. Now set your silver tray level and pour the solution into it. Rock it a little to get it to an even temperature and let it stand a minute before beginning. Now take a strip of clean paper two or three inches wide and as long as the width of your dish, and holding by each end skim the bath carefully of any dust or scum that may have arisen to the surface. The paper for the silvering should have been in a moist place over night, and should now be damp and limp. Some keep their paper in a room where they can leave a window open, others in a box where there is a pan of water or a saturated sponge, others in a damp cellar, any of these will do, if they accomplish the desired effect. Look at each piece of paper before silvering and see that it is free from dust and appears clean and bright. If dusty go over it with a camel hair duster or tuft of cotton. Now to silver catch the sheet by opposite corners, lay the corner nearest you on the solution and lower the other corner to it gently and with a *trembling* motion. This drives out the air bubbles and if done properly the paper will require no further attention until it is ready to come off.

Now to get the proper time for silvering. This is one of the most important things of all—I have known photographers who silvered every day, exactly the same time whether damp or dry, summer or winter, hot or cold, when in fact, it is not often that paper should be silvered precisely the same length of time, any two days in succession. And right here is the cause of half the measles, blisters, &c. The only correct rule to ascertain the correct time for that especial day is as follows: Take out your watch, place a sheet of paper on the bath, notice the time, now let it curl up at the edges as much as it will and uncurl again of its own accord, when it lays perfectly flat on the bath note the time again, and the time it has taken from the time it *first touched the bath until it lays flat on the surface is the proper time for silvering on that day.* The reason is obvious. As soon as the silver takes hold of the albumen it will attract it instead of repelling it, and when it draws it back to the surface it signifies that it has taken hold thoroughly, and as paper never wants to be silvered any longer than necessary, it is then evidently the proper time to take it off. *The stronger the bath the longer time it takes to silver,* as a strong solution repels the paper longer. Dry paper requires longer floating than damp, &c., &c. Draw your paper over a glass silvering rod and place between clean blotters, which must never be used for any other purpose, and after the surplus

silver has been absorbed hang it on a line, two sheets together, back to back, with clips at each of the four corners.

After all is silvered pour your bath into a funnel, large enough to hold it all, and in which you keep a lump of alum and let it filter back into your silver bottle, which should be kept in the sun during the day. Now dry your paper *bone dry*, so that it rattles, and hang it in your fuming box, put in fresh ammonia, and go to breakfast. You will probably be back in half an hour or less, by which time your paper is ready to come out, and if limp or anyways damp it should be dried thoroughly again. You are now ready for your day's work in good season, and we all know that "well begun is half done."

Print about one-third darker than you wish the prints to be when finished (not more, unless you intend toning them to death). Have a place to change your prints where the light does not strike too strongly, and keep the prints in a box or drawer that closes tight.

Should you have a cracked negative to print from, you can do so by suspending a board large enough to hold the frame, by a string at each of the corners and keeping it whirling as it twists and untwists the string. The crack in a negative so printed will scarcely show. Sometimes not at all.

Print until done or until your light goes and then trim your prints with a perfectly cut glass, and a pair of sharp shears, or knife if preferred. Nothing looks so wretched as a badly trimmed and mounted print.

After you are through trimming, put everything away that you don't need, and get out your washing trays, of these you MUST have at least three, which if preferred, you can make yourself by covering a shallow box with oil cloth. NEVER USE THE SAME TRAYS FOR WASHING YOUR PRINTS IN BEFORE TONING, THAT YOU USE FOR WASHING THEM IN AFTER THEY COME FROM THE HYPO.

This is *imperative*, if you expect any ease in toning and good work.

Keep two trays, at least for soaking and salting your prints *before* toning and for NOTHING ELSE.

Now fill one tray with clean water, not too cold, (soft water is best) and the other with a very weak solution of salt, just strong enough so that the taste is perceptible. Set your box containing the prints where it is handy and drop them one at a time into the clean water with one hand while you press them down with the other. Never put the hand into the water that goes into the box, as you are certain to spatter your prints and make them spotted. After the prints are all in the water and well

flattened out, change them one at a time into the salt in the same manner as they were put into the water from the box.

During all of this the prints should be kept face down. If you have not a very large lot you may change them all into the salt without stopping, then emptying the first and filling it with clean water you have it ready for the prints to go into as they come from the salting. But with a large batch of prints three trays are necessary. If your salt was not too strong your prints will redden slowly and present a very rich cherry color. Beginning with the last put in, turn your prints face up, and by the time you reach the first put in they will probably be ready to come out, and the others will soon follow in turn, until all are laying face down in clean water.

Now put your *salting tray away* and get out your toning tray.

Your gold stock solution should be in a bottle so measured that an ounce of solution contains a grain of gold, and if the ordinary boughten gold is used it will require a grain of gold for every full sheet of paper. It is better to make your own gold if possible and will save you at least one-half.

Pour enough rain water (slightly warm) into your toning dish to cover about one dozen cabinet prints easily, add two or three ounces of your stock solution of gold, which must be slightly acid, drop in a piece of blue litmus paper and let it turn red.

Now have at hand a small bottle containing a solution of *carbonate of soda* (not cooking soda) add this drop at a time, rocking the tray all the time so as to mix thoroughly until you see the litmus paper beginning to turn blue, now stop adding carbonate, and add a small pinch of pulverized borax. By this time the paper is blue, and you are ready to tone. Put in a few prints face down, rock the dish gently and then turn them face up. Always beginning with the last put in, this brings the ones first put in, to the top last. If your bath is working right they will have begun to tone. *Never tone too slow*, the shorter time a print is in the gold the more brilliant it will be. On the other hand, too rapid toning will cause spottiness and other bad effects.

DON'T TONE TOO FAR. The great fault is that many photographers want a blue tone, and tone all the life out of their pictures to get it. A picture is never as brilliant again, as when it is first taken off of the negative, and it is this brilliancy we wish to preserve as much as possible. As soon as the gold begins to act this brilliancy begins to go, and the longer the print is toned the less brilliant it becomes. Don't try to get a blue, gray, or black tone

unless your negatives are very strong and will make prints that need toning down. A warm brown tone is the most brilliant and the most popular at the present time. The day of black and white pictures is over, thank heaven. Many of our greatest photographers are having their pictures toned a decided red, and the effect is beautiful, and what is better it requires only about one-fourth the time, and about one-fourth as much gold as it does to tone them until they are gray, lifeless things. My rule has always been to take out a picture the instant it reached the color I wanted it to be when finished. As fast as your prints are toned, put them into a tray of clean water, face down.

Occasionally you will have to add more gold to your bath. Never do this while you have prints in it. When you are through toning and have washed your toning tray, and put it away, you may bring out your fixing tray and mix your hypo solution. I believe a pound to the gallon is the rule, but I never measured it, as some variation in this regard does not matter. Dissolve the hypo in water that is warmed a little if it is winter, and add a pinch of carbonate of ammonia to neutralize any free acid there may be, and if your paper is inclined to blister a small handful of salt will be beneficial. Put your prints in one at a time, the same as they went into the salt and the gold until all are in; now turn them all face up in the same manner, and by holding one of the first put in, up to the light you will see that it is beginning to clear in spots. Keep turning them for fifteen or twenty minutes.

Your prints will redden again in the hypo, but will come back to the color you toned them when mounted and dry. So don't be scared at them getting bad color in the hypo.

Never go off and leave them to fix themselves, as they will stick together and prevent the hypo from acting on them properly. When they look clear by transmitted light leave them in five minutes longer and they are then ready to come out. Now pour off half the hypo, and fill up the tray with water, pour off half again and fill as before, continue this until the solution is very weak, they may be then changed into a strong solution of salt, and after they have remained in this a few minutes proceed with it the same as you did with the hypo until the prints are in a solution of clear water, if you use a hypo eliminator now is the time for it. Directions for its use will be found on each bottle. If you do not use one your prints should wash in frequent changes or in running water at least two hours. They should then be taken out on a piece of clean glass and the water pressed out of them as much as pos-

sible with the hands. Then take them to a long table where you have some nice clean blotters and some clean paper spread down, and proceed to mount them with starch paste of *your own make*, which you have made up in the morning, so that it is thoroughly cool now and strained through a clean piece of muslin, and with a paste brush that has been thoroughly washed out. *Never mount prints with hot paste*. Hot paste dries too quickly and your prints will, many of them, curl up at the edges unless they are stacked up, which cannot be done with enameled cards. Use cold paste and they will dry slowly and securely, and the cards will not cup up so badly. Rub your prints down with clean blotters and leave them there if you can until you get ready for spotting. Mount your prints carefully, bad mounting makes the whole job bad. To do this lay them, after pasting, face down on a blotter and lay the card on them. Spot your prints neatly with India ink mixed with a little red to make it the proper color and with a little albumen. Lubricate with dry lubricator and burnish carefully with a good burnisher, not too hot or too tight. I recommend the Entreklin Eureka.

MALADIES.

SOFTENING OF THE ALBUMEN.

This is the worst calamity that befalls a printer. It always happens in the winter and is caused by the difference in the temperature of the different solutions, and the cold air. Sometimes it is so bad the albumen slides off in the hypo in great pieces like gelatine, and what does not come off is so rough and dead looking that the pictures are useless. The remedy is to have *every solution* of the *same temperature*, from the very first water down to at least the fourth change out of the hypo and to have them of a *mild temperature*, warm enough to not be disagreeable to the hands. Also have the air in the toning room warm, and a little alum in all the solutions will be found beneficial as it tends to harden the albumen in the same manner as it does the gelatine of a dry plate. Have *plenty of alum* in the hypo and in two or three subsequent changes, and if it is necessary to finally put the prints into cold water, cool it gradually by adding a little cold to the tray and pouring out part of warm. When paper is working in this delicate manner, great care is necessary and sudden changes from warm to cold water is fatal.

BLISTERS.

If the blisters are small they do no damage and will dry out, but if they are the large camel back blister they must be gotten rid of. I have had

more trouble in Chicago than any other place; the water there is very cold and I attributed the trouble mostly to it. To get rid of them, therefore, I poured enough warm water into each change, from the very first, to take off the icy chill in the same manner as prescribed for softening of the albumen. When I reached the gold I put in a little salt, also a little into the subsequent change of water. Into the hypo I put several handfuls of salt, and into not less than three of the following changes of water I did the same, keeping them still of a mild temperature. It is also a good plan not to change the prints from the hypo into a tray of water, but to gradually weaken the hypo by pouring out and adding salt water until the taste of hypo is about gone. In this manner I got entirely rid of the worst case of blister I ever saw.

RED SPOTS, ESPECIALLY IN THE SHADOWS.

Red blotches and spots, especially in the dark portions of the print, come from a weak silver bath which must be strengthened. Sometimes an

old bath will test strong with the hydrometer when really there is scarcely any silver in it. The collection of other matter in it, such as nitrate of ammonia, &c., causing it to test. Piles' test tube is the only certain indicator of silver strength.

MEALINESS.

Usually caused by too warm a toning bath or over toning. Also attributed sometimes to over silvering. Paper silvered and toned according to the method I have given will never be mealy.

MEASLES.

These are usually caused by paper not being in the proper condition when silvered and usually present themselves in the form of little dark spots all over the print. If the paper is hung in a clean, damp place the night before and the bath is not too cold when it is floated, there is very little reason to fear black measles. I have heard of yellow measles but never saw them, and consequently have nothing to offer from my own experience as a remedy.

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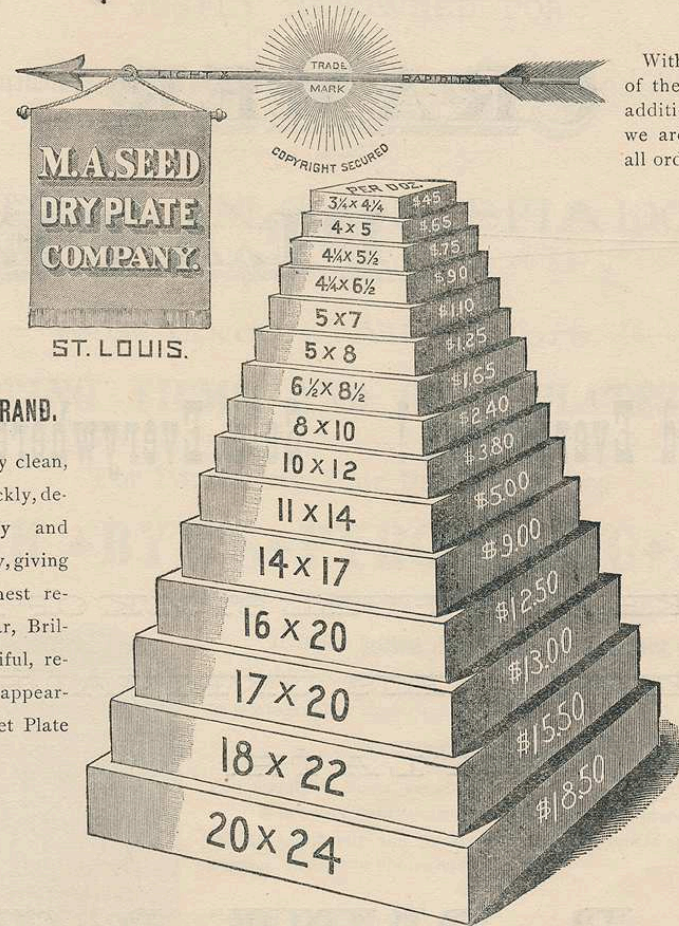
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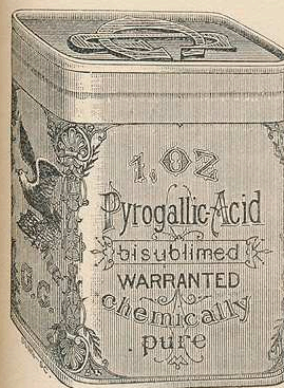
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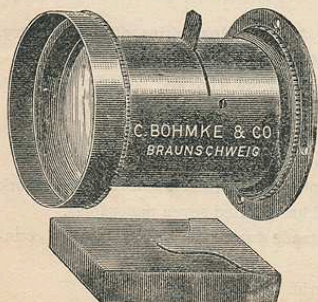
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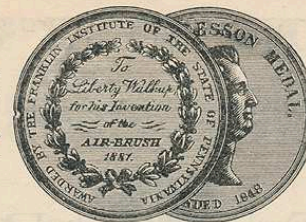


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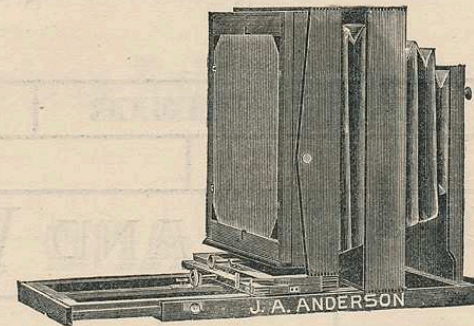
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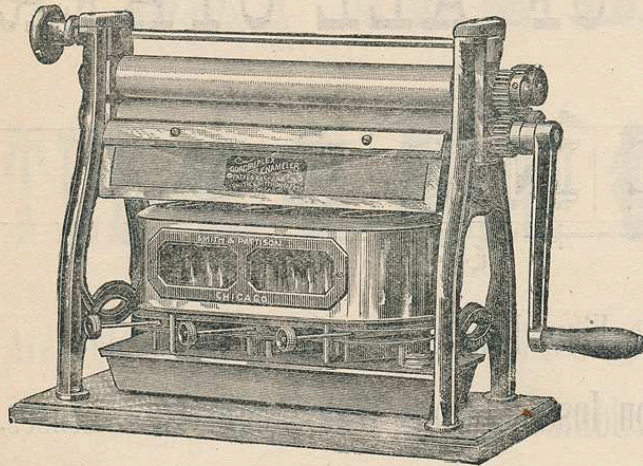
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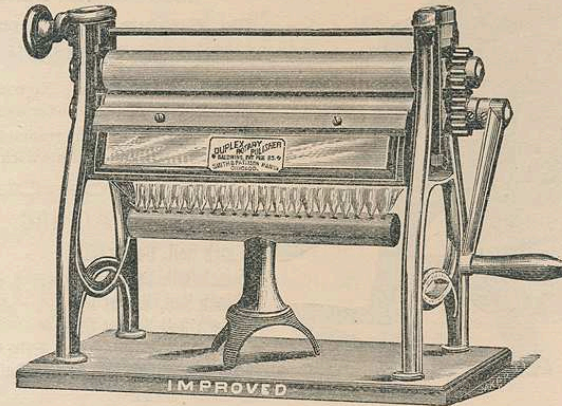
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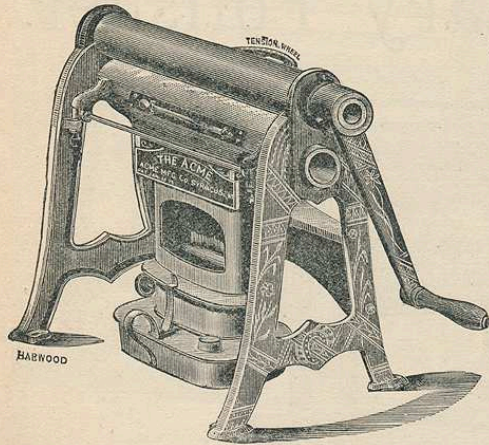
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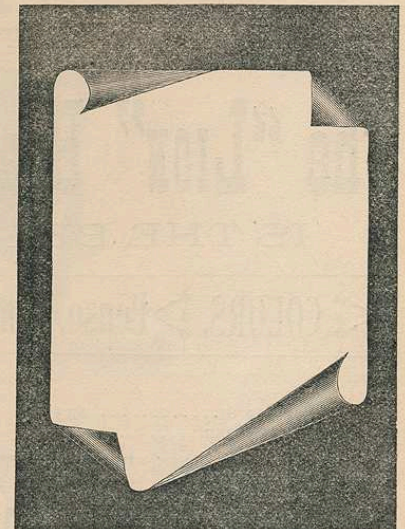
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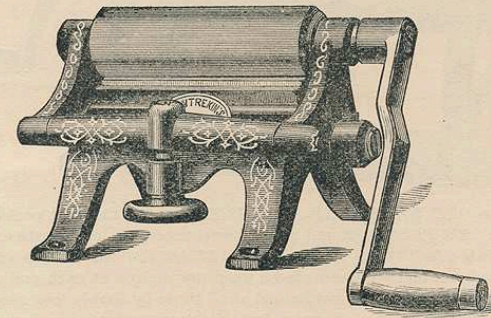
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"Goes on for Ever,"

And Grows in Popularity Every Day.

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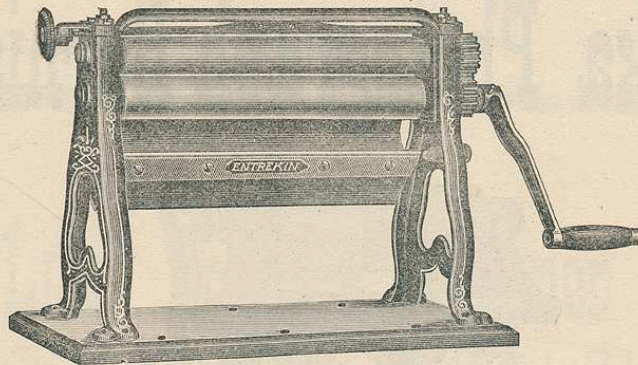
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" " ACCURATE " " " " PRINT CUTTERS and
" " IMPROVED " " " " PHOTO PRINT WASHING TANKS.
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SEE PAGE 59 OF THIS LIST.

INDEX.

	Page	Page
Accessories, Backgrounds, &c.		106
Artificial Plants, Vases, &c.	81	158
Bryant's B. G.	66-72 and 82	152-157 and 169
Green's "	83	102-103
Gehrig's Combination	81	22-23
Knapp & Caldwell	73-74	62-65
Osborne's	75	145-147
Seavey's B. G. and Accessories	76-80, 82	108
Spurgin's "	82	60, 105
Acme Medium and Water Colors	107	147
Adt Manipulator	104	" Vials 99
" Photo Clips	103	21
Air Brush	111	98
Albumen Paper	149-150	Coolidge's Caricature Foregrounds 84
Anthony Bromide	85	Copying Cameras 37-43 and 87-88
Argentic Plates	149	Corner Leaves 136
Artificial Songster	115	Cots 118
Artists' Cuffs	103	Cross Filters 99
" Materials	119-121	Curtains 83
Baby Holders	65	Cut-Outs 114
Backgrounds, all kinds	82-83	Dark-room Lanterns 91
Backing for Pictures	143	Designs for Printing Mounts 159-169
Bath Dippers	97	Developer, Eastman's 90
" Dishes	96-97	Devoes' Print Easels 100
Bellows for Cameras	52	Diamonds 99
Bird's Patent Vignetter	106	" Prices of Re-setting 99
Books and Publications	178-180	Diaphragms for Lenses 22-23
Bracket Casters	102-103	Drapery 83
Bromide Paper and Apparatus	85-88	Dry Colors 113
Brushes, all kinds	111-112, 119	" Plates 148-149
Burnishers, all kinds	59-61	Easels, Artist's and Retoucher's 110
Burnisher Heaters	60-61, 105	Eastman's Bromide Paper and Apparatus 85-90
Calcined Flour	109	" Negative Paper and Apparatus 88-90
Camel Hair Duster	111-112	" Roll Holders 88-89
Cameras—Portrait	27-37	Egyptian Water Colors 108
" View	38-45	Enlarging Apparatus 88
Camera Novelties	44-45	Entrekkin Lubricator 60, 104
" Stands	53-55	Envelopes, Ferro 157
Camp Chairs	118	" Mailing 116
Caps, Diaphragms, &c.	22-23	

INDEX--Continued.

	Page		Page
Etched Ground Glass.....	98	Head Screens.....	57
Eureka Bromide Paper.....	86	Hollow Glass Tubes.....	97
Evaporating Dishes.....	94	Hydrometers.....	95
Excessior Ret. Powders.....	110	India Ink.....	113, 121
Extra Parts of Apparatus.....	50-52	Joker Heater.....	61, 105
“ “ Lenses.....	22-23	Kits, Slides, Front-boards, &c.....	50-52
Feather Dusters.....	112	Kuhn's Paper Stretcher.....	106
Felt Backgrounds.....	83	Lanterns.....	91
“ Printing Pads.....	101	Leather Caps.....	22
Ferro Envelopes.....	157	Lenses.....	2-21
“ Type Outfits.....	58	“ Aplanatic.....	3-10
“ “ how to make them.....	170	“ Condensing.....	21
“ Plates.....	149	“ Portrait.....	11-16
Flanges, Diaphragms, &c.....	22-23	“ Sing. Combination and Stereo.....	19-21
Focusing Glasses.....	21	“ Wide Angle.....	17-19
Formulae, &c., for working.....	170	Lightning Flash Powder.....	104
Foregrounds.....	115	Linen Mats.....	84
Forms Glass for Trimming.....	97	Lockwood Clips.....	103
Frame Mouldings.....	126-138	Lubricators, all kinds.....	60, 104
Frames, ready-made.....	139-141 and Supplement.	Magic Head Screws.....	57
French's Flexible Negatives.....	115	“ Renovator.....	60
“ Silver Ink.....	113	Magnesium Flash Powder.....	104
Front-boards, Slides, &c.....	50	Masks.....	114
Funnels, all kinds.....	96	Mat Moulding, white.....	125
Giant Tool Handles.....	102	Mats, all kinds.....	122-126
Gihon Cut-Outs.....	114	“ for Round Plaque.....	141
“ Opaque.....	113	“ Sanded for Oval Panels.....	141
Gilbert's New Lubricator.....	60, 104	Medium for Acme Water Colors.....	107
Glace C. S. Polish.....	60, 104	Metallic Leads.....	108
Glass and Glassware.....	93-99	Mitre Machines.....	143-144
“ Baths.....	96-97	Mortars and Pestles.....	97
“ Collodion Vials.....	99	Mouldings.....	126-138
“ Cutters.....	99	Negative Boxes.....	101
“ Filter Bottles.....	99	“ Paper.....	89-90
“ Forms for Trimming.....	97	“ Preservers.....	116
“ for Pictures.....	97-98	“ Racks.....	105
“ Funnels.....	96	“ Washing Boxes.....	105
“ Ground Ex. Fine.....	99	Ornamental Corner Leaves.....	136
“ Rods for Silvering.....	97	Osborne's Neg. Pedestal.....	115
“ Ruby, Orange and Green.....	99	“ Pict. Foregrounds.....	115
Glue.....	Supplement sheet	Paper, all kinds.....	149-150
Gold Paint.....	107	“ Preservative.....	147-150
“ Saucers.....	113	Paints, Brushes, &c.....	119-121
Graphoscopes.....	118	Pantagraphs.....	121
Grass Mats.....	84	Parlor Paste.....	112
Gun Cotton.....	147	Paste Brushes.....	111-112
Hard Rubber Baths.....	97		
“ “ Set Brushes.....	111		
Hartshorn Rollers.....	Supplement		
Head Rests.....	57		

INDEX--Continued.

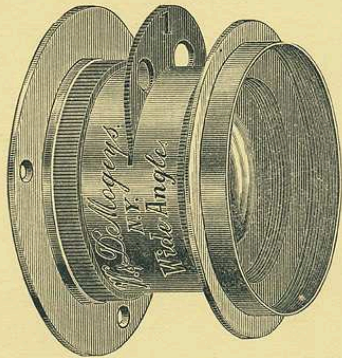
	Page		Page
Pastel Crayons, for repairing B. G.....	84	Scott's Vignettes.....	101
Peerless Varnish Pot.....	105	Scroll Negatives.....	(XIX), 115
Pencils, all kinds.....	108	Seeds' Developer.....	Supplement
Photo Clips.....	103	Seavey's Pastel Crayons.....	84
“ Receiver.....	117	Shears.....	Supplement
Picture Mats.....	122-126	Shutters.....	Supplement and 24 and 26
“ Backing.....	143	Silver Bath.....	147
“ Cord, all kinds.....	142	“ Ink.....	113
“ Glass.....	97-98	“ Saucers.....	113
“ Nails.....	143	Skylight Curtains and Rollers.....	Supplement
“ Rail Hooks.....	142	Slides, Front Boards, &c.....	50-52
Pile's Silver Test Tubes.....	95	Smith's Metallic Points.....	108
Plates (Dry).....	Supplement and 148	Spurr's Scroll Negatives.....	Supplement and 115
Plate Holders.....	Supplement and 46 and 49	Steel Glass Cutters.....	99
“ Lifters.....	105	Stereoscopes.....	118
Posing Chairs.....	Supplement and 62-65	Stereo Cards.....	169
Practical Suggestions.....	170	Studio Registers.....	117
Prices for Printing.....	158	Sundries.....	114
Print Frames.....	100-101	Table of Weights and Measures.....	92
“ Mounters.....	113	Tapestry.....	83
“ Pads, Felt.....	101	Tents.....	Supplement
“ Registers.....	101	Translucine.....	90
Printing on Albumen Paper.....	175	Transparency Frames.....	98
Publications.....	178-180	Trays, all kinds.....	Supplement and 92 and 95
Rabbeted Kits.....	50	Tripods.....	Supplement and 56
Ready-made Paints, for touching up B. G.....	84	Transferotype Paper.....	Supplement
Retouching desks.....	Supplement	Transferotype Glass.....	Supplement
“ Glasses.....	Supplement	Vases, Artificial.....	81
“ Pencils.....	108	Varnishes.....	Supplement and 147
“ Powders.....	109-112	Varnish Pot and Filter.....	105
“ Solution.....	Supplement	Vest Cameras.....	45
Rods for Silvering.....	97	View Albums.....	117
Richardson's Glace Lubricator.....	Supplement	Vignettes, Birds.....	106
Roll Holders.....	89	“ Scott's.....	101
Rubber Bellows.....	52	“ Weymouth's.....	114
“ Bands.....	Supplement	Wagner's Ret. Cylinders.....	112
“ Plates, for Paper Negatives.....	90	Water Colors, Acme, Egyptian and Chinese, 107-108	107-108
“ Stoppers.....	114	Waxed Linen Mats.....	Supplement
“ Focus Cloth.....	Supplement	Weights for Scales.....	91-92
Ruby, Orange and Green Glass.....	99	Weight and Measure Table.....	92
Rugs.....	83	Weymouth's Vignette Papers.....	114
Sable Pencil Brushes.....	112	White Mat Moulding.....	125
Scales and Weights.....	91-92	Wire and Worsted Picture Cord.....	142
Scott's Print Registers.....	101	Wire Moulding Nails.....	143

INDEX OF ADVERTISEMENTS.

	Page.		Page.		Page.
Air Brush.....	XI	Caldwell's Accessories.....	V	Minott M. Govan.....	VII
Anthony's Bromide Paper.....	XII	Cramer Dry Plates.....	II	Morrison and Peerless Lenses.....	XV
Anderson's Apparatus.....	XIII	Eagle Paper.....	X	Osborne's Accessories.....	VIII
A. O. Co.'s Cameras.....	XIV	Eagle Dry Plates.....	III	Onken & Vance.....	XVIII
Acme Burnisher Co.....	XVIII	Entrekin's Burnishers.....	XXI, XII	Quadruplex Enameler.....	XVI
Baldwin's Duplex Rotary.....	XVII	G. G. Pyro.....	III	Seavey's Accessories.....	IX
Bryant's Accessories.....	VI	Hiram J. Thompson.....	XX	Spurr's Scroll Negatives.....	XIX
Boehmke Lenses.....	X	M. A. Seed Dry Plate Co.....	I	Trier & Son's Card Board.....	IV

See Supplement for New Prices & New Goods.

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