Photographic Goods

1842 - 1904

The Anthony & Scovill Co.
122-124 Fifth Avenue .·. New York

CATALOGUE A.

LENSES AND SHUTTERS

1904

THE ANTHONY & SCOVILL COMPANY
122-124 FIFTH AVENUE, NEW YORK

Catalogue A.—Lenses and Shutters.
" B.—Studio Cameras, Stands and Attachments.
" C.—Hand and View Cameras, Enlarging, Lantern Slide and Micrographic Cameras, Plate Holders and Carrying Cases.
" D.—Professional Studio Sundries.
" E.—General Photo Sundries and Photographic Publications.
" F.—Chemicals, Films, Papers and Plates.
" G.—Photo-Engravers' Supplies.

STYLES & CASH
NEW YORK

PREFACE.

FOR convenience in mailing and reference we have divided our catalogue into sections, the contents of *all* sections being given on the front cover of each section. The catalogue as a whole will be found to be complete and reliable in every way. Every really desirable requisite for the photographer and photo-engraver has been listed, and if something has, by chance, been omitted, it is by no means an indication that we cannot supply it

The prices will be found to compare favorably with any others, and the quality of our goods has been fully demonstrated during the past half century. Our goods may be very generally purchased of all dealers in photographic supplies. If not to be found at your dealers they may be purchased direct from our New York House.

Photographic Papers of the brands listed in this catalogue, owing to the arbitrary restrictions of the "Photographic Trust," which prohibits dealers who handle their brands to sell any other, may not be found for sale by your regular dealer.

Our goods find much favor in foreign countries, and special care is taken by our export department of all such orders, and prompt shipment is assured.

When ordering, possible errors may be avoided by giving the page of the catalogue on which the article appears. New goods which may be placed upon the market subsequent to the issue of this catalogue will be found in the advertising columns of the Photographic Times-Bulletin, the Professional Pointer, and the American Annual of Photography.

We invite a careful and critical examination of the following pages, and we suggest that in cases where large purchases are contemplated that a list of the goods desired be sent us in order to give us an opportunity of quoting special prices.

A WORD ON CAMERAS.

In selecting cameras for studio work we would strongly recommend investigation of the merits of those described in Catalogue B, pages 3 to 10. All are of the latest and most approved models, are substantial and artistic in appearance, and are elegantly finished. With proper care they will last a lifetime. In particular we would call attention to the New York Studio Outfit. This is, without exception, the most useful outfit that a photographer can possess. This outfit, with the addition of the Scovill Revolving Adjuster as listed in Catalogue B, page 16, becomes the most complete equipment a photographer can obtain. With the Improved Automatic Attachment, as now furnished, the Outfit is a marvel of cheapness and perfection, and full description of the Outfit is given in Catalogue B, page 9.

For out door view photography the Tripod Camera is unequaled for professional work, and indeed for all photography where the very best results are desired. Of Tripod Cameras the Compact, Clifton and N. P. A., as described in Catalogue C, are the most desirable. All are carefully put together and made as light and portable as possible, consistent with rigidity and general strength. For a cheap and really efficient equipment there is nothing better than the Champion Equipment or the O. N. A. Equipment, both described in Catalogue B.

Hand Cameras deserve the popularity they have enjoyed for several years past. Our catalogue shows a complete and representative line. We recommend for use with film the Ansco and Al Vista Cameras, fully described in Catalogue C, which are the latest achievements in the line of Film Photography.

TERMS

Cash, or Collect on Delivery.

Persons unknown to us will remit part of the estimated amount of bill with order, remainder to be sent C. O. D.

Orders for shipment per freight lines must be accompanied with the amount of invoice.

As prices of all kinds of goods fluctuate, this catalogue gives merely their value at date of issue, and prices may change without notice.

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

New customers, seeking to establish a line of credit, will avoid delay by sending their references with order.

When goods are to be sent by mail, amount of postage must accompany remittance, and packages so sent are at purchaser's risk.

Orders for goods not made or kept in stock by us will be filled with the understanding that such goods cannot be returned, or the prices, which we are obliged to charge, altered.

Remit by Express, Money Order, Draft, Post-Office Order, or Registered Letter.

IT'S THE LENS THAT MAKES THE PICTURE.

The purchaser of a fine lens, who regrets the expenditure, is a rarity among photographers, whether amateur or professional. Fine lenses are necessary to make fine pictures, and when properly used will produce such.

If one takes up photography in earnest, he can afford a good lens even if he must deny himself to get it; a professional photographer will find such self-denial the best of all self-denial. This may sound a bit obscure, but the meaning's there and the statement is true.

There's much in a name. Sometimes enough to be worth paying for. There's enough in the name of Dallmeyer to warrant double prices, but all you pay for in this splendid line of goods is the lens; if you doubt the assertion, compare the prices of a Dallmeyer Stigmat working at F/6 with others that are neither so fast nor so good.

A FEW WORDS ABOUT LENSES.

ACHROMATISM is the first condition in a good lens. It is that quality which brings the chemical rays, or those which produce the photographic image, in exact coincidence with visual rays, or those which make the image apparent to the eye on the ground glass. A slight deviation from perfect achromatism will produce the photographic image either in front of or behind the plate, and will therefore cause indistinctness. This may sometimes be partially corrected by the use of small stops, but when it exists it is always a serious fault.

SPHERICAL ABERRATION is the result produced in an incorrected lens by its failure to bring to a focus all the rays which pass through it. A lens having such defect will focus at several points, according to the size of stop used and will give perfect sharpness at none. This failing is to a greater or less degree common to all except the higher grades of lenses and its presence requires the use of small diaphragms, thus reducing speed. A lens which is achromatic and which has been fully corrected for spherical aberation is said to be,—

APLANATIC, which indicates that it can be used practically without diaphragm. All high speed lenses are Aplanatic.

RECTILINEARITY is the term used to designate a lens that will reproduce subjects such as architectural views, in which parallel lines are conspicuous, without curvature of lines at the edges of plate.

FLATNESS OF FIELD indicates the ability of a lens to produce the image on a plane instead of a curved field. It is the absence of this quality that makes many photographs "soft" at the corners of the plate, unless a small diaphragm be used.

ASTIGMATISM denotes the failure of a lens to focus on vertical and on horizontal lines at the same time. The photograph of a checker-board or of checked cloth, made with an ordinary lens, will illustrate this failing very clearly. The correction of this defect is the great advantage of the modern stigmatic lens; for whereas it may only be rarely that the photographer desires to take subjects where cross lines are prominent, the ability of the lens to correctly render such lines will manifest itself in every picture taken. The evenness of definition, sharpness, and general superiority of the picture are clearly shown, as in any other superior product.

SPEED.—There is much talk regarding the speed of various lenses. The matter is simple in the extreme. The speed of the lens depends upon no mystical properties, but almost entirely upon the amount of light which it projects on the plate. As in a house, the larger the window compared to the size of the room, the greater the light; so with the lens, the more light that passes through it the speedier the lens.

The rapidity of the lens varies in accordance with the square of the number indicated in describing the speed. Thus, under the same conditions a lens of speed F/4 (Dallmeyer Portrait Stigmat), would require 16 seconds' exposure. F/6 (Dallmeyer Stigmatic Series II), 36 seconds, F/6.8 (the usual speed of Anastigmatic lenses), 46.24 seconds. F/7.7, 59.29 seconds. So it will appear that small as the fractional differences in the speed numbers seem, they have a very important bearing upon the duration of the exposure.

A rapid rectilinear such as is usually supplied with hand cameras would have a speed, if used without diaphragms, of about F/8; but to obtain a sharp image they must be stopped down to F/16 or even to F/32. Then when we take into account the good instantaneous work a rectilinear will do under these conditions, we can appreciate the marvellous rapidity of such a lens as the Dallmeyer Stigmat Series II, F/6.

We then should see that the lens we select is *Achromatic*, with the *spherical aberration* corrected, making it *aplanatic*.

It must be *Rectilinear*, the *astigmatism* overcome, and the aperture of lens should be as large as possible compared to its focal length, thus procuring the highest speed.

Every good lens will have some of these qualities,—the Dallmeyer Stigmatic has them all.

* * * *

What lens shall I buy?

If you are a professional photographer and have a good sized studio, buy a Dallmeyer Portrait lens,—it is the fastest that money can buy. It enables you to take your sitters in the most natural positions, for it works quickly. For all-round Studio work the 3A Pat. Port. is the favorite.

If your space is limited, a Dallmeyer Stigmatic portrait lens will be found the more serviceable. It works at F/4 and produces magnificent results.

Large groups in small studios are splendidly cared for by the Dallmeyer Stigmatic Series II, F/6.

It possesses great speed, and for absolute perfection of delineation surpasses even the Dallmeyer Portrait and Stigmatic Portrait series. Hence, although less rapid than the above, many photographers use it to the exclusion of all others.

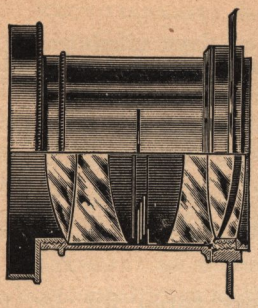
The view photographer will find a No. 5, Series II lens on an 8 x 10 camera the nearest solution to the many puzzling requirements which confront him, that any one lens can give. Used as a doublet it gives splendid results, as a moderately wide angle lens. For interiors or exteriors, it will prove uniformly excellent.

Where a larger view of the subject is required the lenses may be used singly, the rear combination doubling the area of a given object, the front combination quadrupling it. This enables him to take "anything in sight" with one lens, although, whenever possible, we advise the use of lenses of long foci as exaggerated perspectives cannot be avoided where lenses of short focus are used.

For instantaneous work, where a focal plane shutter is used, the Dallmeyer F/6 will allow the spring to be set for a higher speed, or at the same speed will give greater detail than the anastigmat of the F/6.8 type.

In process work the Dallmeyer F/6 is unapproached. But when all has been said it is as difficult to define the satisfaction occasioned by the use of a fine lens like the Dallmeyer Stigmat as it is to explain the charm of a picture. The best lens does the best work and the best work alone gives entire satisfaction.

Bubbles in Lenses.—The production of lenses having improved optical qualities, i.e., flatness of field and freedom from astigmatism, involves the use of glasses with particular optical characteristics not found in the older flints and crowns. It has been found impossible to obtain these glasses free from minute defects in the form of small bubbles or specks. Their presence, however, is in no way detrimental to the performance of the lens, the only effect being the loss of an infinitesimal amount of light. In the most extreme case this would be represented by a prolongation of the exposure by about one-thousandth part. The definition is absolutely unaffected.



THE DALLMEYER STIGMATIC LENS.

Series II, F/6, also Telephoto Attachments for same.

This is a new universal Lens of more simple construction than Series I, consisting of five Lenses only It is intended to be a Lens suitable for every class of Photography, from Portraiture to Wide-Angle work, and is the quickest stigmatic Lens made, except the Dallmeyer Stigmatic Portrait Lenses, Series I, which work in F/4. The smaller sized plates mentioned in these specifications are the size we should advise for general work with Lenses of the respective foci, since the use of a Lens of too short a focus tends to the production of exaggerated perspective. At full aperture these lenses cover slightly larger plates than those given, and include an angle along the diagonal of the plates of about 85°.

Moreover, being perfectly free from spherical aberration, the full aperture of the Lens may be used in focusing, there being no fear of any alteration taking place in the focal length of the Lens, when changing the size of the stop, as is the case with many Lenses of the Wide-Angle type.

No.	Plate Covered at Full Aperture.	Largest Plate covered at	Diameter of Lens.	Eq. Focus.	Price with Iris Diaphragms.	Price and Focus of Suitable Telephoto Attachment in Brass.
	f6.	*f16.*	In.	In.		
1	3¼ x 3¼	4¾ x 6½	8	4.5	$38.00	2½ inch.....$30.00
2	3¼ x 4¼	5 x 8	9	5.3	46.00	2½ " 30.00
3	4 x 5	6½ x 8½	1.1	6.4	54.00	3 " 30.00
4	4¾ x 6½	8 x 10	1.3	7.6	65.00	4 " 36.00
5	5 x 8	10 x 12	1.6	9	84.00	4 " 36.00
6	6½ x 8½	12 x 15	1.9	10.7	108.00	5 " 42.00
7	8 x 10	15 x 15	2.2	12.7	148.00	6 " 48.00
8	10 x 12	16 x 18	2.6	15.1	196.00	7 " 56.00
9	12 x 15	20 x 22	3.1	18	252.00	8 " 68.00

USE OF THE SINGLE COMBINATIONS.

This Lens is so made that when it is desired to use the combinations separately, there is no necessity to alter their positions. That is to say, the lens not required is simply removed, and the remaining one used *in situ.*

The *front* lens has the greater equivalent focal length, but it will be found that the necessary camera extension is nearly the same for either combination. For such subjects as large heads the single Lenses may be used with full aperture, but for general use in Iris diaphragm should be set to an aperture not larger than F/8 or F/11 of the Iris diaphragm, for front or back respectively.

N. B.—Taking the equivalent focal length of the complete lens as 1, the back and front lenses have equivalent foci of 1⅔ and 2 respectively.

*NOTE.—We have had numerous inquiries for Lenses for Groups, to be used in galleries of limited length, and up to the present no Lens has been found to supply the want, but this new Lens of Mr. Dallmeyer's will perform the work and is very rapid, covering the *largest plate* at *f/16.*

Nos. 7, 8 and 9 are also supplied with Waterhouse diapraghm for Photo-Engraving purposes.

NEW RAPID LENS

DALLMEYER STIGMATIC LENS.

SERIES III, F 7-5.

This series has been introduced to meet the requirements of those who consider a lens working at F 6 as a luxury, and who are satisfied with one working at a speed not less than that of a good Rapid Rectilinear, with the added qualities of flatness of field and freedom from astigmatism.

The Series III Stigmatics have a full aperture of F 7.5, and at this intensity cover the plate for which they are scheduled to the corners, while with an aperture of F 16 absolute definition is obtained over a plate two sizes larger. They are, for any given size of plate, lighter and more portable than those of Series II, there being only four elements in each instead of five, as in the preceding series. The Lenses of Series III are not convertible, and should always be used intact.

No.	Equivalent Focal Length.	Covers Sharply at F 7.5.	Covers Sharply at F 16.	Price with Iris Diaphragms.
1AA	3	2 x 2½	3¼ x 4¼	$28 00
1A	4	2½ x 3½	4 x 5	30 00
1	5	3¼ x 4¼	4¾ x 6½	31 00
2	6	4 x 5	5 x 7½	38 00
3	8¼	4¾ x 6½	6½ x 8½	46 00
4	9½	5 x 8	8 x 10	54 00
5	11	6½ x 8½	10 x 12	67 20
6F8	13	8 x 10	12 x 15	84 00
7F8	15¾	10 x 12	16 x 18	112 00

The smaller sizes are very suitable for Hand Camera and Stereoscopic work, while the larger ones are destined to supersede the Rapid Rectilinear, their cost being only slightly in excess of the latter.

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 Visite, Locket Portraits, etc.

No. 2 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 3¼ x 4¼ in. and under..... $120 00

No. 3 C. Same as above. The lenses 3½ in. diameter, 6 in. back focus (8 in. equivalent). For pictures 4 x 5 in. and under.... 200 00

Nos. 2 C and 3 C are perhaps the quickest-acting lenses extant, working full aperture at an intensity of F 2 nearly.

A Miniature Lens, with rack and pinion movement. The lenses 1¼ in. and 1⅜ in. diameter respectively, and 2 in. focus from the back glass. For pictures on plates 2 x 2 in., and, when used with stops, for 2¾ x 3¼ in..... $44 00

A Medallion Lens. Diameter of combinations ¾ in., back focus 1 in., in a rigid mount, without stops..... 19 00

DALLMEYER'S QUICK-ACTING PORTRAIT LENSES.

(Introduced November, 1860.) Especially constructed for CARTE DE VISITE PORTRAITS.

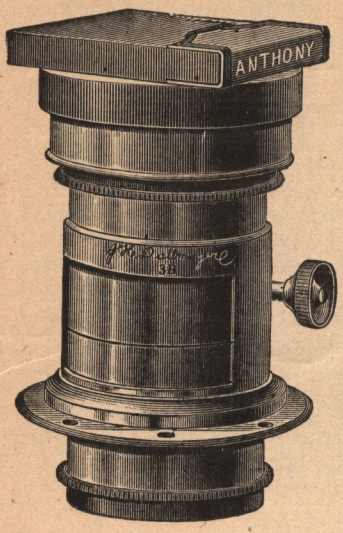
No. 1 B. Carte de Visite Lens, with rack and pinion movement. The lenses 2 in. diameter and 4¼ in. back focus (6 in. equivalent). For Portraits 3¼ x 4¼ in..... $48 00

No. 1 B. (Long), with rack and pinion movement. The lenses 2⅛ in. diameter, and 4¾ in. back focus (6½ in. equivalent)..... 52 00

These lenses work full aperture at an intensity of F 3. The distance between subject and lens for the No. 1 B, 12 to 13 ft.; for No. 1 B (Long), 14 to 15 ft.

DALLMEYER'S PATENT PORTRAIT LENSES (B).

Quick-Acting Lenses.



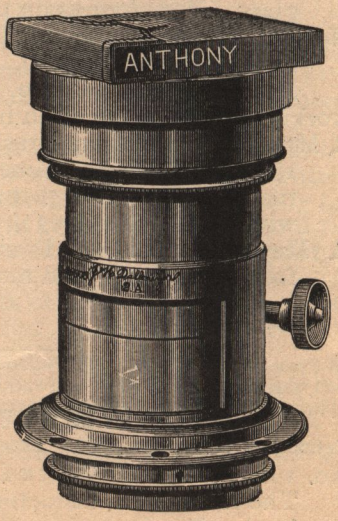
No. 1 B. Patent Lens, with rack and pinion movement. Diameter of lenses 2 in., and equivalent focus 6 in. For Carte de Visite Portraits. Distance between subject and lens for standing figure, 12 to 13 ft..... $56 00

No. 2 B. Same as above. Diameter of lenses 2¾ in., and equivalent focus 8½ in. Especially constructed for Carte de Visite Portraits. Distance between subject and lens for a standing figure, 18 ft..... 102 00

No. 3 B. Same as above. Diameter of lenses 3½ in., and equivalent focus 10½ in. Especially constructed for Cabinet Portraits. Distance between subject and lens for a standing figure, 18 ft.. 152 00

No. 4 B. Same as above. Diameter of lenses 4½ in., and equivalent focus 14 in. For pictures 6½ x 8½ in. and under. Distance for a Cabinet Portrait, 25 ft..... 304 00

DALLMEYER'S PATENT PORTRAIT LENSES (A).



No. 1 A*. Patent Lens, with rack and pinion movement. Diameter of front and back combinations, 2¾ and 2⅝ in. respectively, and 10 in. equivalent focus. For pictures 4 x 5 in.....$100 00

No. 2 A*. Same as above. Diameter of front and back combinations, 3¼ and 3½ in. respectively; equivalent focus 13½ in. For pictures 4¾ x 6½ in 136 00

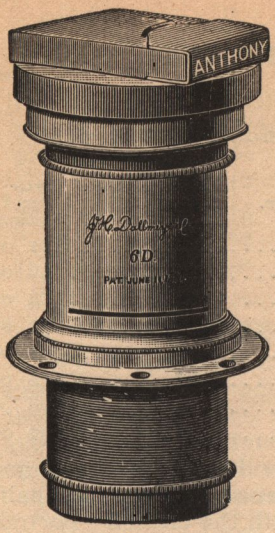
No. 3 A*. Same as above. Diameter of lenses 4 in., equivalent focus 16 in. For pictures 6½ x 8½ in. and promenades and cabinets... 208 00

No. 4 A. Same as above. Diameter of lenses 4½ in., equivalent focus 18 in. For pictures 8 x 10 in.... 292 00

No. 5 A. In Rigid Mount. Diameter of lenses, 5 in., equivalent focus 21 in. For pictures 15 x 15 in. and under..... 380 00

No. 6 A. Same as above. Diameter of lenses 6 in., equivalent focus 28 in. For pictures 20 x 16 in., and under 456 00

* These lenses are well adapted for cabinet portraits, according to length of gallery. Thus, No. 1 A requires a distance of 14 ft. between subject and lens (not recommended if a longer focus lens can be used); No. 2 A, 20 ft.; and No. 3 A, 24 ft.



DALLMEYER'S PATENT PORTRAIT AND GROUP LENSES (D).

These lenses are perhaps the most generally useful instruments a photographer, more especially the amateur, can be possessed of. With the full opening, they are well adapted to portraiture in the studio (as for groups, studies, large heads, etc.), and, when used with smaller stops, these new lenses answer equally well for outdoor photography, such as architectural views, landscapes, etc. They are entirely free from distortion and flare. They work at F 6 a speed sufficiently great for most purposes and greater than that of any other instruments sold at anything like their price.

With the exception of Nos. 2 D and 3 D, the lenses are mounted in rigid settings, *i. e.*, without rack and pinion movement.

No.	Diameter of Lenses. Inches.	Equivalent Focus. Inches.	Size of Group. Inches.	Size of View. Inches.	Price.
2 D* patent	1½	9	4¾ x 6½	6½ x 8½	$54 00
3 D* "	2⅛	12½	6½ x 8½	8 x 10	72 00
4 D* "	2⅞	17	8 x 10	10 x 12	104 00
5 D "	3¼	19	10 x 12	12 x 15	133 00
6 D "	4	24	12 x 15	16 x 18	202 00
7 D "	5	30½	16 x 18	20 x 22	366 00
8 D "	6	37	20 x 22	21 x 25	444 00

GENERAL REMARKS.

Dallmeyer's Patent Portrait Lenses are made in three styles, as regards intensity or rapidity of action:

1st.—Quick-Acting Portrait Lenses, ratio of aperture to focal length, F 3; designated B.

2d.—Portrait Lenses of the ordinary intensity. Ratio of aperture to focus, F 4; designated A.

3d.—Portrait Group and View Lenses. Ratio of aperture to focus, F 6; designated D.

B lens requires about one-half the exposure of A and one-fourth of D.

The construction of the lens is such that, with the posterior cell of the back combination screwed home, the index pointing zero, it produces the sharpest possible picture of objects situated in *one plane*. Then, by unscrewing the posterior lens a turn or parts of a turn, the previous intensely sharp definition becomes modified, *i. e.*, the contrast of excessive sharpness in one plane, compared with great want of sharpness in other planes, is balanced, producing the impression of a general distribution or depth of focus; and this in exact proportion to the amount of unscrewing. Nothing has been sacrificed in securing this new power, and it can be used or not at the will of the operator. In the case of the D lenses, rather more unscrewing is required to produce an appreciable effect. It is important the following rule be observed: *Unscrew first, and focus afterwards.*

* Distance for a cabinet portrait with No. 2 D, 15 ft.; with No. 3 D, 18 ft.; with No. 4 D, 25 ft.

DALLMEYER'S TRIPLE ACHROMATIC LENS.

(FREE FROM DISTORTION.)

For Agricultural Views, Copying, etc., also for Landscapes and Groups.

No.	Size of View or Landscape. Inches.	Size of Group or Portrait. Inches.	Diameter of Back Combination. Inches.	Back Focus. Inches.	Price, Rigid Setting.
1	4¾ x 6	4 x 5	1½	7	$32 00
2	6½ x 8½	4¾ x 6½	2	10	46 00
3	8 x 10	6½ x 8½	2¼	12	54 00
4	10 x 12	8 x 10	2¾	15	72 00
5	12 x 15	10 x 12	3¼	18	92 00
6	16 x 18	12 x 15	4	23	118 00
7	20 x 22	16 x 18	5	29	168 00
8	21 x 25	20 x 22	5¼	31	190 00

By removing (unscrewing) the central lens, and using the front and back combinations only, the back focus is shortened by about one-half; the time of exposure is now nearly the same as with the ordinary portrait lens, but the curvature of field is greater, and therefore it should only be used for vignette heads, or the like.

DALLMEYER'S RAPID LANDSCAPE LENS (Long Focus).

This is a single combination landscape lens specially constructed for obtaining large images in distant views, mountain scenery, balloon photography, etc. Each lens is supplied with a set of Waterhouse Diaphragms, the apertures of the stops of these lenses being too large to admit of their arrangement in the form of a rotating diaphragm as supplied with the wide-angle landscape series. It has a working intensity somewhat more than F 12 (or about twice as quick as the wide-angle landscape lens), and in this condition is entirely free from outstanding spherical aberration, *i. e.*, gives a perfectly defined image.

No.	Largest Dimensions of Plate. Inches.	Diameter of Lenses. Inches.	Equivalent Focus. Inches.	Price.
1 AA	3¼ x 4¼	1	5	$24 00
1 A	4 x 5	1¼	7	30 00
1	4¾ x 6½	1½	9	34 00
2	6½ x 8½	2	12	44 00
3	8 x 10	2⅛	15	58 00
4	10 x 12	2⅔	18	72 00
5	12 x 15	3	22	88 00
6	16 x 18	3½	25	106 00
7	20 x 22	4¼	30	134 00

DALLMEYER'S NEW RECTILINEAR LANDSCAPE LENS.

This lens is a single combination, works at an intensity, with the first stop, of F 14, and is therefore somewhat slower in action than the rapid landscape, requiring an exposure of about one-third longer, and, similarly to those lenses, may be used with a larger aperture than the first stop. It has been specially constructed for views, architectural subjects, copying, etc., where it is essential that straight lines should be accurately portrayed.

No.	Largest Dimensions of Plate. Inches.	Diameter of Lenses. Inches.	Equivalent Focus. Inches.	Price.
1	4¾ x 6½	1½	8½	$36 00
2	6½ x 8½	1¾	11½	46 00
3	8 x 10	2	13½	62 00
4	10 x 12	2¼	16½	78 00
5	12 x 15	2¾	20	96 00
6	16 x 18	3	25	122 00
7	20 x 22	3½	32	160 00

DALLMEYER'S EXTRA RAPID RECTILINEAR LENSES.

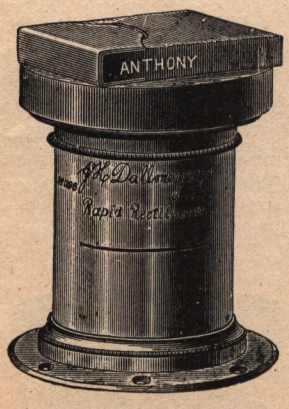
These lenses work at an intensity of F 5.9; they are made of specially tested Jena glass, and are aplanatic. They produce very sharp and brilliant images, and are most suitable for instantaneous work in dull weather, when the intensity of F 8 is not sufficient. Nos. 1, 2, and 3 are unsurpassed for hand camera work. All are fitted with Iris Diaphragms.

No.	Largest Dimensions of Plate. Inches.	Diameter of Lenses. Inches.	Equivalent Focus. Inches.	Price.
1	4 x 5	⅞	4.9	$50 00
2	5 x 6	1¼	6.9	60 00
3	5 x 8	1⅜	7.6	72 00
4	6½ x 8½	1½	8.4	80 00
5	7 x 9	1⅝	9.1	96 00
6	8 x 10	1¾	9.8	114 00
7	10 x 12	2	11.2	130 00

Larger sizes can be made to order, but above the 10 x 12 size the ordinary Rapid Rectilinear should be chosen in preference.

DALLMEYER'S RAPID RECTILINEAR LENSES. (Patent.)

The Rapid Rectilinear Lens is emphatically "The Lens" for all kinds of outdoor photography. It works at an intensity of F 8, and, although not so rapid as the D Lens, requiring nearly double the exposure, is superior to it for views because of its having only four, instead of six reflecting surfaces. It is composed of two exactly symmetrical cemented combinations, is aplanatic, *i.e.*, it works with the full opening. Hence its superiority for all kinds of quick outdoor pictures, groups, instantaneous effects, landscapes, architectural subjects, or for dimly lighted interiors. For copying and enlarging, this lens is unrivaled. It will be found unsurpassed for producing the finest results for every variety of photo-mechanical work. With smaller stops, each lens covers the next larger, or even two sizes larger, plates than those recorded, thus embracing angles of pictures from 60° to 80°, and this without any trace of flare or central spot. Many fine large portrait studies have been taken with this lens, and it is to be found in the possession of almost every photographer of eminence wherever the art is practiced. Either combination can be used singly as an ordinary landscape lens; focus, about twice that of the compound lens. Each lens is supplied with a set of Waterhouse Diaphragms.



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 smaller stop. Each lens is constructed to give the greatest possible "depth of focus" which involves the above conditions.

Size of View or Landscape. Inches.	Size of Group or Portrait. Inches.	Diameter of Lenses. Inches.	Back Focus. Inches.	Equivalent Focus. Inches.	Price, Rigid Set.	Suitable Telephoto Attachment. Brass.
3¼ x 4¼	3¼ x 3¼	⅝	3⅝	4	$28 00	$30 00
4 x 5	3¼ x 4¼	1	5½	6	34 00	30 00
4¾ x 6	4 x 5	1¼	7½	8¼	42 00	36 00
5 x 8	5 x 6	1⅜	9¼	10	48 00	42 00
6½ x 8½	5 x 6	1½	10¼	11	53 00	48 00
8 x 10	6½ x 8½	1¾	12¼	13	68 00	56 00
10 x 12	8 x 10	2	15	16	84 00	68 00
12 x 15	10 x 12	2½	18	19½	114 00	88 00
16 x 18	12 x 15	3	23	24¾	152 00	112 00
20 x 22	16 x 18	3¾	28	30½	206 00	....
21 x 25	20 x 22	4	31	33½	252 00	....

Fitted with Iris Diaphragms to order only at same price. 4 x 5 furnished in matched pairs for stereo work.

DALLMEYER'S NEW WIDE-ANGLE LANDSCAPE LENS. (Patent.)

This is a single combination landscape lens, working at an intensity of F 15, and is the best lens for landscapes, pure and simple, embracing large angles. Being a single combination, like the rapid landscape, it has but two reflecting surfaces, and therefore produces a more brilliant picture than the wide-angle multiple lenses. It works with a proportionately large stop, *i. e.*, it is quicker in action, and the illumination is more equally distributed from the centre to the margin of the plate. Being composed of three lenses cemented together, it is superior to the old Meniscus, composed of two, inasmuch as it produces less distortion, gives better marginal definition, and is of much smaller size.

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

No.	Size of Plate. Inches.	Diameter of Lenses. Inches.	Equivalent Focus. Inches.	Price.
1 A	4 x 5	1⅜	5¼	$24 00
1	4½ x 7¼	1⅝	7	28 00
2	6½ x 8½	1⅞	8½	34 00
3	8 x 10	2⅛	10	42 00
4	10 x 12	2½	12	54 00
5	12 x 15	2⅝	15	64 00
6	16 x 18	3	18	80 00
7	20 x 22	3⅝	22	106 00
8	21 x 25	4¼	25	144 00

DALLMEYER'S WIDE-ANGLE RECTILINEAR LENSES. (Patent.)

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

The Wide-Angle Rectilinear Lens has the following advantages over existing non-distorting double-combination lenses: It is entirely

free from a central spot; it can be used with a larger stop, *i. e.*, it is quicker in action; it produces a more brilliant picture.

The lenses of which it is composed are smaller and thinner, for a given sized plate, than those of other lenses intended for the same size of picture.

The front combination of the Wide-Angle Rectilinear can be used alone, dispensing with the back, as a single lens of a focal length about double that of the compound lens.

The lenses are mounted in rigid settings or tubes, and each is furnished with a rotating diaphragm plate. In the column below, the largest size of plate covered by each lens is recorded; and, if microscopic definition up to the corners be required, the smallest or smallest but one stop should be used.

No.	Largest Dimension of Plate. Inches.	Diameter of Front Combination. Inches.	Back Focus. Inches.	Equivalent Focus. Inches.	Price.
1 AA	4½ x 7¼	⅞	3½	4	$34 00
1 A	6½ x 8½	1¼	4⅝	5¼	42 00
1 B	8 x 10	1⅜	5½	6¼	50 00
1	10 x 12	1½	6¼	7	58 00
2	12 x 15	2	7½	8½	80 00
3	16 x 18	2½	11	13	106 00
4	20 x 22	3	14	15½	152 00
5	21 x 24	3¾	17	19	228 00

This lens is also well adapted for stereoscopic views.

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°; and, when used with the smallest central diaphragm, it is practically free from flare or a central spot.

Diameter of front and back combinations 1½ and 1¼ in. respectively, and 3⅝ in. focus from the back glass (equivalent focus, 5 in.).

In sliding mount adjustment.....$36 00 each.
With rack and pinion movement..... 40 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.

The front combination can be used alone and intact (focal length 8 in.), simply by unscrewing and dispensing with the back combination, when, with a small-sized stop, it will be found to cover the 4½ x 7¼ plate.

For very short operating-rooms this lens can also be used for Cartes de Visite.

DALLMEYER'S QUICK-ACTING STEREOSCOPIC LANDSCAPE LENSES.

For general landscapes, quick marine views, and such work, these lenses are unrivaled. The shorter focus, 4½ in. includes a larger angle than the 6 in., and, if only one pair be required, is to be recommended

		Per Pair.
No. 1.	1¼ in. diam., 4½ in. focus, in rigid mount, with rotary stops,	$32 00
No. 2.	1½ in. " 5 in. " " "	36 00
No. 3.	1⅝ in. " 8 in. " " "	40 00

DALLMEYER'S RECTILINEAR STEREO. LENSES.

Especially constructed for Architectural and Landscape Views in confined situations.

Diameter of front combination, 5/8 in.; back focus, 2½ in. (equivalent focus, 3 in.); mounted in rigid setting, with rotating diaphragm plate, per pair..... $60 00

DALLMEYER'S NEW PATENT LANTERN LENSES.

Especially constructed for use with the Optical Lantern.

These lenses (intended for use for exhibiting with the optical lantern *only*, and not for photography) produce the most brilliant enlargements upon the screen, true to the original, both in outline and coloring; they are free from all distortions, the images are well defined throughout, and the field is flat.

No.	Diameter of Front Comb'tion. Inches.	Diameter of Back Comb'tion. Inches.	Back Focus. Inches.	Equivalent Focus. Inches.	Price.
1. Lantern Lens (patent), consisting of two combinations mounted in tubes, with Rack and Pinion Movement	1½	1¾	3½	5	$32 00
2. Same as above	1¾	2	4	6	40 00
3. Same as above	2½	2¾	5½	8	58 00
4. Same as above	2⅝	3	7½	10	76 00
5. Same as above	3	3¼	9½	12	96 00

	Diameter. Inches.	Price, Per Pair.
Condensers for above, mounted	3½	$28 00
" " "	4	32 00
" " "	4½	40 00
" " "	5	52 00

To any one desiring a strictly first class magic lantern, we recommend procuring both lens and condensers as supplied by Mr. Dallmeyer.

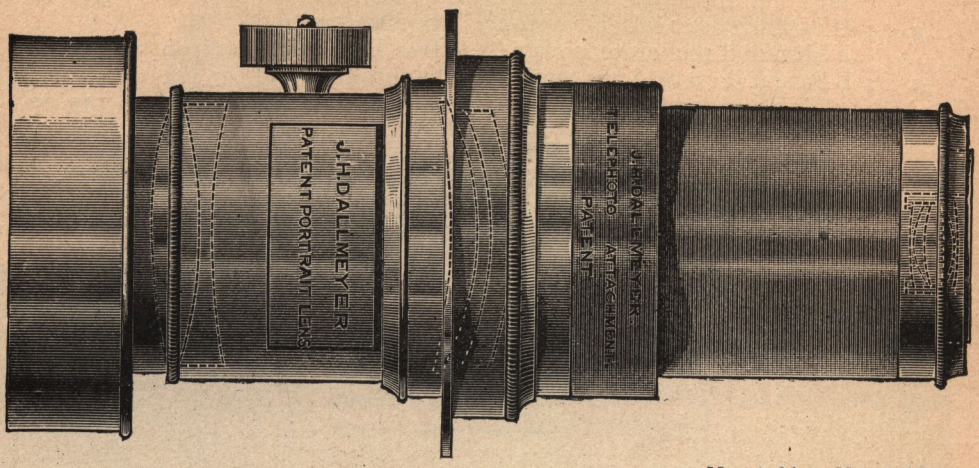
DALLMEYER'S PATENT TELEPHOTOGRAPHIC OR "LARGE IMAGE" LENSES AND ATTACHMENTS.

The Telephotographic Lens is now recognized as forming an essential part of the photographer's outfit. By its use the necessity of carrying lenses of various foci for landscape work is in a great measure avoided, and the advantages it gives in photographing at great distances need scarcely be enlarged upon. The immense advantage obtained by direct telephotographic work over enlargement has been proved by several independent authorities. In itself, the Telephotographic Lens is essentially merely a Long Focus (though various) Lens, and its behavior as regards depth of focus, perspective, etc., differs in no way from that of ordinary long focus lenses.

The Telephoto Lens consists essentially of a fixed *positive* focus lens system in front, with a fixed *negative* focus system behind, the distance between the two being adjustable, and the alteration of this distance giving a large range of equivalent or corresponding foci, thus enabling the operator to obtain different sized images of one and the same object at a given distance, and greatly magnified as compared with the size of image given by the positive lens employed alone. The *degree* of magnification depends on the type of Telephoto Lens used, varying with the ratio between the focus of the positive lens and the focus of the negative lens used in conjunction with it.

I.—High Power Telephoto Lenses, consisting of a Portrait Lens and a high power Negative Element of about one-fourth the focus of portrait lens.

HIGH POWER TELEPHOTO.



No.		Mounted in Brass.	Mounted in Aluminum.
1.	Patent Stereo Lens, with Iris Diaphragms, and No. 1 Negative (1.6 in. focus)	$62 00	$74 00
2.	1 B Patent Portrait Lens, with Iris Diaphragms, and No. 2 Negative (1.8 in. focus)	92 00	107 00
3.	2 B Patent Portrait Lens, with Iris Diaphragms, and No. 3 Negative (2.4 in. focus)	151 00	169 00

The Negative Elements alone can be adapted to any existing Patent Stereo, 1 B or 2 B Patent Portrait Lenses, at the following prices:

No.		Mounted in Brass.	Mounted in Aluminum.
1.	Negative Element	$22 00	$26 00
2.	" "	30 00	35 00
3.	" "	39 00	45 00

II.—Moderate Power Telephoto Lenses, consisting of a Portrait Lens and a moderate power Negative Element of about half the focus of portrait lens.

No.		Mounted in Brass.	Mounted in Aluminum.
1.	Patent Stereo Lens, with Iris Diaphragms, and 2½ in. focus Negative	$68 00	$80 00
2.	1 B Patent Portrait Lens, with Iris Diaphragms, and 3 in. focus Negative	90 00	105 00
3.	2 B Patent Portrait Lens, with Iris Diaphragms, and 4 in. focus Negative	146 00	164 00

The Negative Elements alone can be adapted to any existing Patent Stereo, 1 B or 2 B Patent, or similar, Portrait Lenses, at the following prices:

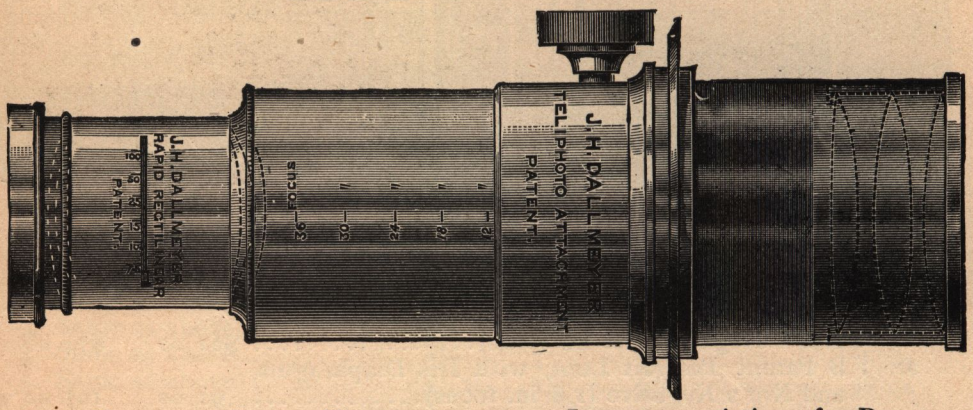
	Mounted in Brass.	Mounted in Aluminum.
2½ inch Negative Element	$28 00	$32 00
3 " " "	28 00	33 00
4 " " "	34 00	40 00

Prices for larger sizes on application.

Combinations of I and II.—One negative mount is required, this being constructed telescopically so as to carry either a high or a moderate power element (each in its respective cell), the latter necessitating a slight shortening of the tube.

No.		Mounted in Brass.	Mounted in Aluminum.
1.	Patent Stereo Lens, with Iris Diaphragms, and a high and moderate power Negative Element....	$86 00	$98 00
2.	1 B Patent Portrait Lens, with Iris Diaphragms, and a high and moderate power Negative Element..	116 00	135 00
3.	2 B Patent Portrait Lens, with Iris Diaphragms, and a high and moderate power Negative Element..	181 00	199 00

MODERATE POWER TELEPHOTO.

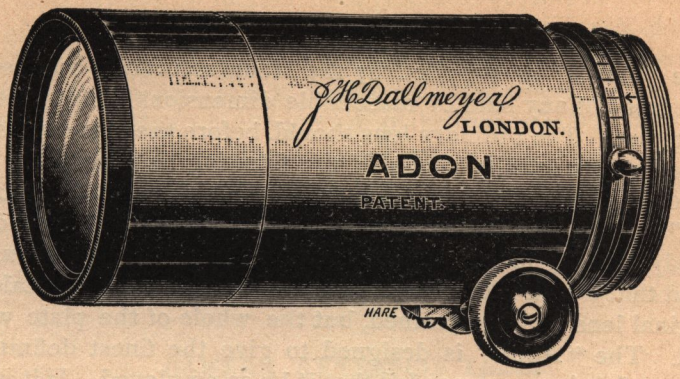


MODERATE POWER TELEPHOTOGRAPHIC LENSES, consisting of a RAPID RECTILINEAR LENS, and a moderate power Negative Element of about half its focus. The prices of the Negative Elements alone are here given. As the Positive Element, either the "Rapid Rectilinear" or the "Extra Rapid Rectilinear" may be employed.

Focus of Negative Element.....	2½	3	4	5	6	7	8	10	12 in.
Diameter.....	1	1¼	1½	1¾	2	2¼	2⅜	2⅝	3 in.
With Rack and Pinion Movement in Brass,	$30	$30	$36	$42	$48	$56	$68	$88	$112
With Rack and Pinion Movement in Aluminum.....	$36	$36	$42	$52	$58	$68	$80	$100	$124
Suited to Rapid Rectilinear Lens.....	3¼ x 4¼	4 x 5	5 x 6½	5 x 8	6½ x 8½	8 x 10	10 x 12	12 x 15	16 x 18 in.

The Moderate Power Telephoto Attachments are also used in connection with the Stigmatic Lenses, Series II, as on page 10.

They can also be adapted for use with lenses of other makes, the rule being that the negative element should have a focus of about one-half of the equivalent focus of the lens with which it is to be used.



ADON. *Actual Size.*

A NEW TELEPHOTOGRAPHIC LENS.

(PATENTED)

The "ADON" is an entirely novel instrument, which has, to a certain extent, been called into being by the very general use of small cameras fitted with rollable film, or fixed magazines for films or plates. These cameras do not permit of the use of lenses of great focal length, and it is impossible to fit an ordinary telephoto attachment to them, as in some cases the lens is immovable and in others it can only be removed at the sacrifice of the films or plates with which it is filled. A Telephotographic Attachment which could be fitted in front of an ordinary positive lens was therefore a desideratum, and Messrs. J. H. DALLMEYER, LTD., have now the satisfaction of offering to the public a lens which, besides possessing other advantages, viz.:—rapidity and adaptability for independent use, fulfils this very important condition. The external appearance of the "ADON" is shown in the accompanying illustration, which represents it in its actual size. It is mounted in aluminium, and is furnished with a rack and pinion adjustment and flange, so that the "ADON" may either be screwed on to the front of the ordinary positive lens, or used by itself in the flange. A neat solid leather case, lined with velvet, is supplied with each "ADON." The "ADON" is composed of two achromatic combinations, the front being a positive lens with a focal length of 4½ inches, and the back being a negative lens with a focal length of 2¼ inches. These are mounted in an aluminium setting which permits of a great variation in separation, so that when used on the front of a lens objects at different distances may readily be focused without altering the camera extension, while when the "ADON" is used alone, a great range of magnification can be obtained if sufficient camera extension is available.

HOW TO USE THE "ADON."

I.—IN CONJUNCTION WITH AN ORDINARY LENS.

The "ADON" as supplied by the Manufacturers is adapted to screw into the front of any lens of reasonable dimensions which the purchaser wishes to use. The ordinary lens should, before the "ADON" is attached, be placed at its infinity focus, if the focusing be effected by scale, or a distant object should be focused if the ground glass screen be used. The "ADON" should then be screwed into the front of the lens and the focus again adjusted by means of the rack and pinion of the "ADON." It will be found that a well illuminated image of about twice the scale given by the original lens will be obtained, but the whole of the plate will not be covered. The "ADON" is designed to give the finest definition in this position, and it is recommended that it be so employed. If it is necessary that a larger circle should be covered, the "ADON" should be shortened to its limit, and a focus obtained by racking the Camera out; a larger circle will now be covered, the corners only of the plate showing a slight darkness. In order to secure sharp definition in this case, a smaller aperture of the "ADON" Iris will be necessary. It should be understood that the magnification given by the "ADON" when used in conjunction with a Positive Lens varies from 2 to 2½ diameters; if greater magnification be required, it must be used alone. When so used, the rapidity is the same as that which would result from combining the "ADON" and Positive, so as to give the same magnification. The ordinary lens must always remain at full aperture, or the field will be seriously reduced. When using the "ADON" in conjunction with an ordinary lens, the black lengthening tube must be removed.

II.—THE "ADON" USED ALONE.

The range of magnification possessed by the "ADON" when used in front of an ordinary lens is, as has already been pointed out, strictly limited, but when used as a telephoto lens complete in itself the "ADON" has no such limitation. With a camera extension of 5 inches a quarter plate is covered, with 8 inches a half plate, and so on, even 15 by 12 being within the scope of this remarkable little lens. To the pictorial worker the power of being able to select a focal length which will embrace exactly the desired angle is indeed a boon, which is none the less welcome because the instrument weighs only 4¾ ounces, and is less costly than the cheapest modern anastigmat. The "ADON" has only to be screwed into the camera front, and the bellows extended to the required distance, focusing being effected by means of the rack and pinion on the "ADON"; a final adjustment can be made if desired with the rack of the camera. A table is appended which gives the equivalent focal length for the various camera extensions, and at the same time the f./value of the full opening of the "ADON" Iris at each distance. For short extensions and sometimes for *near* objects with longer extension the black lengthening tube must be used, but for all distant views with extensions over 11 inches, it must be removed and the front lens screwed directly into the bright aluminium

mount. When focusing with the "ADON," either on another lens or alone, it must always be remembered that near objects require more racking out of the front lens of the "ADON." Very fine portraits of a peculiarly soft quality may be obtained with the "ADON" at full aperture. It is hardly necessary to add, that in nearly all cases where distant objects are to be photographed, a great increase of brilliancy is obtained by the use of a color screen, either of the ordinary yellow tint, or, still better, as permitting the use of ordinary plates, the green and yellow screen invented by Mr. Burchett.

CAMERA EXTENSION TABLE.

CAMERA EXTENSIONS	FOCAL LENGTH	F./VALUE*	CAMERA EXTENSIONS	FOCAL LENGTH	F./VALUE*
5	14.5	13	13	30.5	30
6	16.5	15	14	32.5	32
7	18.5	17	15	34.5	34
8	20.5	20	16	36.5	36
9	22.5	22	17	38.5	38
10	24.5	24	18	40.5	40
11	26.5	26	19	42.5	42
12	28.5	28	20	44.5	44

* These F./Values refer to the aperture marked 1 on the Iris of the "ADON." For smaller apertures, the *exposure* necessary for stop 1 must be *multiplied* by the number opposite the pointer for the time being.

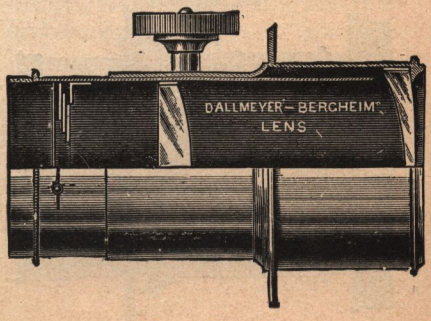
The "ADON" is made in one size only, and is mounted in Aluminium.

The "ADON" may be used with advantage in conjunction with any good lens up to 8 in. focal length.

Price, including Case.....$29.00

DALLMEYER-BERGHEIM LENS (Soft Focus).

This lens has been constructed to supply a want frequently expressed by photographers who confine themselves to the production of the highest artistic rendering in portraiture, and is based upon some original experiments undertaken by the well-known artist, Mr Bergheim. It is composed of a single front lens of *positive* focus, in combination with a single back lens of *negatve* focus, the distances between which (with



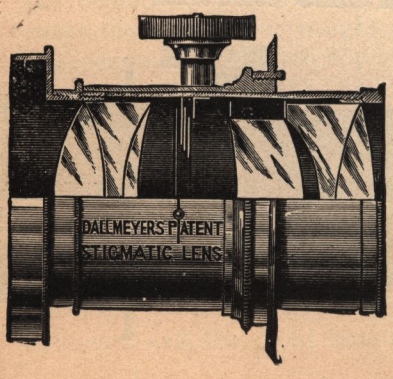
exception of the No. 1 size) are variable, thus arriving at a considerable latitude of focal length. The amount of spherical and chromatic aberration purposely given by the single uncorrected lenses results in a certain amount of diffusion of focus, which produces a softness and delicacy aimed at by Mr. Bergheim himself and other artistic workers. The type of definition given at full aperture is the outcome of a series of experiments, and is such that there is no destruction of structure in the resulting image, all detail being given, but softened to an extent that produces a harmonious whole without insisting on critical sharpness. For large heads and life-size studies the lens is invaluable, the great amount of depth of focus conducing to a uniformity of definition throughout the planes in which the object lies, and obviating an inherent defect in large portrait lenses constructed to give critical definition, in that these have an insufficiency of depth of focus, one plane in the image being very much better defined than the others.

The lenses differ from any hitherto introduced for portraiture in that they are throughout longer in focus, hence producing more satisfactory perspective. As stated, they are of variable focal length, and that within considerable limits, as may be seen from the data given, and being constructed on the telephotographic principle, have also varying covering power. There is no limit to the size of the image that can be produced, this being merely a question of camera extension, the same instrument giving images from cabinet to life size. This lens is perfectly free from distortion, and covers the plate with uniform definition from centre to edge. The fact of the positive and negative elements being composed of *single* lenses also conduces to relatively greater rapidity and brilliancy of image as compared with multiple instruments. "Stopped down," defining power and sharpness increase, this being absolute with about one-third the full aperture.

No.	Diam. of Front Lens. Inches.	Diam. of Back Lens. Inches.	Focal Ratio.	Range of Equivalent Foci. Inches.	Guide to Camera Extension, Corresponding Back Foci. Inches.	Price, Central Stops.	With Iris Diaphragm.
1	2¼	2½	F 9	20, fixed	10	$40 00	$50 00
2	3¼	3½	F 8 to F 12	25 to 40	15 to 22½	68 00	80 00
3	3¾	4½	F 9 to F 15	35 to 55	12 to 30	84 00	96 00

Range of separation between front and back lenses, No. 1 (rigid setting), fixed; No. 2 (rack and pinion movement) 8 to 12 in.; No. 3 (rack and pinion movement) 10½ to 16 in.

No. 1, recommended for use up to cabinet size; No. 2, recommended for use on plates 6½ x 8½ and upwards; No. 3, recommended for use on plates 8 x 10 and upwards.



STIGMATIC PORTRAIT LENS
(Series I., F 4).

This is composed of two triple combinations, the whole of the glasses used being of exceptionally white and clear quality, and free from mechanical defects.

It has been designed to include a larger angle than existing forms of rapid portrait lenses. At the full aperture F 4, it is absolutely free from spherical aberration, *i. e.*, gives a perfectly defined image. It is non-distorting, and gives a flat field with equal

definition from edge to centre, and with but very slight traces of astigmatism. It covers altogether an angle of about 60°, hence is particularly adapted for short operating rooms, and has greater equality of illumination than existing portrait lenses. It possesses the same advantage as the patent portrait lens, in that by unscrewing the back cell a turn, or part of a turn, a certain amount of spherical aberration is introduced, resulting in more equal distribution of definition over the planes focused.

These lenses will be furnished, at present, in four sizes only, as follows:

No.	Largest Dimensions of Plate Covered at Full Aperture. Inches.	Diam. of Lens. Inches.	Equivalent Focus. Inches.	Back Focus. Inches.	Rack and Pinion. With Central Stops.	Rack and Pinion. With Iris Diaphragm.
1	3¼ x 4¼	1.6	5½	4	$56 00	$60 00
2	4 x 5	2	6¾	5¼	96 00	102 00
3	4¾ x 6½	2.4	8¼	6	144 00	154 00
4	6½ x 8½	3.2	11	8¼	200 00	212 00

Distance between subject and lens for full length cabinet, No. 3, 12 to 13 ft.; No. 4, 17 ft. Head and bust pictures, about half these distances.

THE PERISCOPE LENS

Is a rectilinear combination of the wide-angle variety, having an angle of 80°, and is suitable for taking interior and exterior views—a very satisfactory instrument for general open-air work.

The largest aperture, F 14, admits sufficient light for instantaneous views. The larger sizes are suitable for taking portraits in the studio.

No.	Diameter of Lens. Inches.	Equivalent Focus. Inches.	Size of Plate, Largest Stop. Inches.	Size of Plate, Smallest Stop. Inches.	Price.
2	⅝	4½	3¼ x 4¼	4¼ x 6½	$10 00
3	¾	6	4 x 5	5 x 8	12 00
4	1⅛	8½	5 x 8	8 x 10	15 00
5	1¼	10½	6½ x 8½	10 x 12	18 00
6	1⅜	12	8 x 10	11 x 14	22 00

THE EXTREME ANGLE PERISCOPE LENS.

For use where Views of an unusually Wide Angle are desired.

This objective is a symmetrical combination, and is absolutely free from astigmatism and secondary image, or "ghost," besides which it is achromatic and perfectly rectilinear. As each lens is individually achromatized, the front can be removed and the back *used as a single landscape lens*, of about double the focal length of the entire combination.

No.	Equivalent Focus. Inches.	Size of Plate, Largest Stop. Inches.	Largest Plate Covered. Inches.	Largest Aperture.	Price.
1	2.9	2½ x 2½	5 x 7	F 10	$24 00
2	3.6	3 x 3	6½ x 8½	F 10	24 00
3	4.2	3¼ x 4¼	8 x 10	F 10	27 00
4	5.	4 x 5	10 x 12	F 14	32 00
5	5.9	4¼ x 6½	11 x 14	F 14	40 00
6	7.1	5 x 8	14 x 17	F 14	51 00
7	8.4	6½ x 8½	16 x 20	F 16	66 00
8	10.	8 x 10	20 x 24	F 16	87 00
9	12.6	10 x 12	25 x 30	F 16	116 00

RAPID ARISTOSCOPE LENSES.

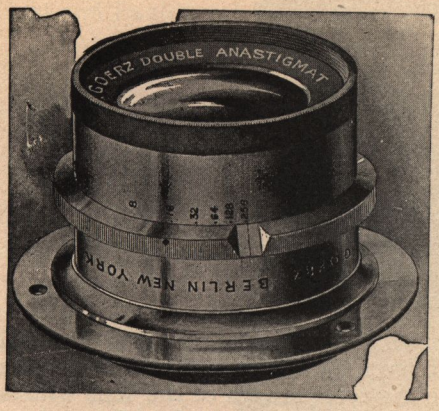
We have introduced these lenses in order to supply the demand for a first-class instantaneous instrument, giving rectilinear results, at a moderate price. They are unequaled at the price for instantaneous views, portraits, landscapes, architectural subjects, dimly lighted interiors, copying, etc. We urge those who intend purchasing a lens for such work to try the Aristoscope before deciding.

No.	Size of View. Inches.	Size of Group. Inches.	Diameter Inches.	Equivalent Focus. Inches.	Price.
1	4 x 5	3 x 4¼	1	6	$24 00
7	16 x 18	14 x 17	3	24	100 00

THE GOERZ DOUBLE ANASTIGMAT F 6.8.

SERIES III.

Universal Extra-Rapid Lens for Portraits, Groups, Instantaneous Photography, Landscapes, Architecture, Interiors and Enlargements.



The lenses of this series are universal instruments in the full sense of the word. At full aperture, they admit of instantaneous photographs embracing an angle of 70° being taken, even on dull days. By the use of small stops the photograph may be made to include an angle of 90°. The Double Anastigmats of Series III. satisfy, therefore, the highest requirements, and are eminently adapted for all-round purposes, in and out of doors.

As the image is perfectly sharp, even with large apertures, the definition, brilliancy and depth of every point of the field is absolutely uniform. Hence perfectly sharp wide-angle instantaneous photographs may be taken.

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

PRICES.

	No.	Equivalent Focus. In.	Free Aperture. In.	Size of Plate Sharply Covered at F 6.8 In.	F 15.5 In.	F 62 In.	Price with Iris-Diaphragm.
F 6.8	0000	1 5/8	1/4	1 5/8 x 1 5/8	2 x 2	2 x 2 3/4	$34 00
	000	2 3/8	3/8	2 3/8 x 2 3/8	2 1/2 x 3	2 3/4 x 3 1/2	34 00
	00	3 1/2	1/2	3 x 3	3 1/4 x 4 1/4	4 x 5	35 50
	0	4 3/4	5/8	3 1/4 x 4 1/4	4 x 5	4 3/4 x 6 1/2	37 50
	1	6	7/8	4 x 5	4 3/4 x 6 1/2	5 x 8	45 00
	2	7	1	4 3/4 x 6 1/2	5 x 8	7 x 9	51 50
	3	8 1/4	1 1/4	5 x 8	6 1/2 x 8 1/2	8 x 10	62 50
	4	9 1/2	1 5/16	6 1/2 x 8 1/2	7 x 9	10 x 12	75 50
	5	10 3/4	1 1/2	7 x 9	8 x 10	12 x 15	91 00
	6	12	1 5/8	8 x 10	10 x 12	16 x 18	107 00
F 7.7	7	14	2	10 x 12	12 x 15	18 x 22	140 00
	7a	16 1/2	2 3/8	11 x 14	13 x 17	21 x 25	182 00
	8	19	2 5/8	12 x 15	16 x 18	22 x 25	219 00
	9	24	3 5/16	16 x 18	18 x 22	24 x 30	325 00
	10	30	4 1/4	18 x 22	22 x 25	28 x 36	539 00
	11	35	5	22 x 25	24 x 30	34 x 44	1070 00

Nos. 00 to 5 are particularly adapted for hand and field cameras. The higher numbers will be found of great service for large portraits and group photography and similar work.

The size of plate indicated under F 6.8 represents the area which is sharply covered up to the edge. It is, however, advisable to select a higher number than that actually required in all cases where the lens is largely used at full aperture, and where, at the same time, it is important that the entire plate should be uniformly illuminated when the camera front is moved out of its central position.

THE GOERZ DOUBLE ANASTIGMAT F 11.

SERIES IV.

Rapid Copying Lens for Full-Size Reproductions, Enlargements, Large Groups, Landscapes, Instantaneous Photography and Interiors

Series IV of the Double Anastigmatic Lenses has been specially computed for copying in full size. It is, for this purpose, made to cover a plate of a diameter which is double the focal length of the lens without any distortion and without astigmatic aberrations, and with perfectly uniform sharpness up to the extreme edge.

This excellent lens may also be used for photographing distant objects ; for in this case the curvature of the image is barely appreciable, and is counterbalanced by the depth of the focus and the sharpness of the image, which is free from astigmatic aberrations. The sharp image subtends an angle of 75° with the largest stop; hence instantaneous wide angle photographs, groups, landscapes and architecture may be taken with these lenses. By means of small stops the image may be made to embrace an angle of 90°.

The hood is, as may be seen from the illustration, detachable, and is fitted on in such a manner as to admit of the adaptation of a prism or mirror.

The back lens, whose focus is about double that of the whole objective, may in like manner as the lenses of Series III be used by itself as a landscape lens.

PRICES.

No.	Equivalent Focus. In.	Free Aperture. In.	Normal Size of Plate for Copying at F 15.5 to F 22		Size of Plate Covered at		Price with Waterhouse Stops.
			In Life Size. In.	In Reduced Size. In.	F 15.5 For Groups. In.	With Smaller Stops for Landscapes Interiors, etc. In.	
6	12	1 1/16	16 x 18	10 x 12	10 x 12	16 x 18	$110 00
7	14	1 5/16	18 x 22	12 x 15	12 x 15	18 x 22	141 50
8	19	1 3/4	22 x 25	16 x 18	16 x 18	22 x 25	230 00
9	24	2 1/8	24 x 30	18 x 22	18 x 22	24 x 30	345 00
10	30	2 3/4	28 x 36	22 x 25	22 x 25	28 x 36	565 00
11	35	3 1/4	34 x 44	24 x 30	24 x 30	34 x 44	1096 00
12	47	4 5/16	40 x 60	28 x 36	28 x 36	40 x 60	1980 00

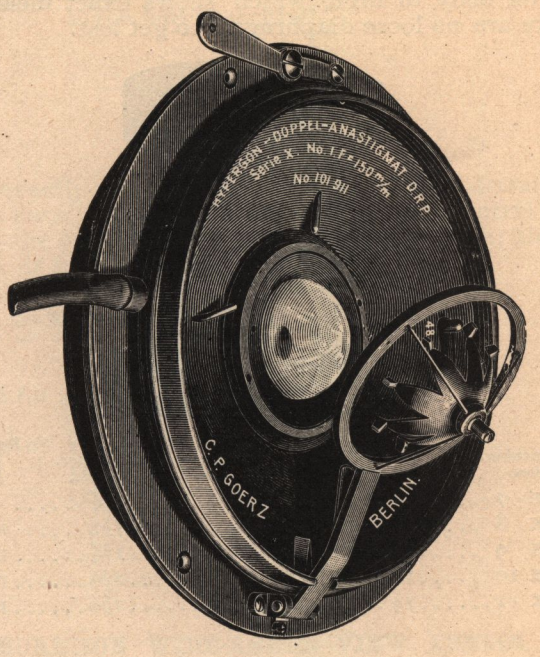
The normal plate sizes tabulated above for copying in full size are covered with great uniformity and with a degree of sharpness which is equal to that of a fine engraving. Where this degree of sharpness is not insisted upon, e. g., for reproductions in mezzotint, the same area may be covered with full aperture.

GOERZ HYPERGON DOUBLE ANASTIGMAT.

SERIES X. F 22. 135° ANGLE.

PATENTS PENDING.

Special objective for Wide-Angle Interiors, Landscapes, Architectural and Panoramic Pictures.



Series X No.	Equivalent Focus.	Plate covered sharp at F 31.	Maximum Plate.	Code Word.	Price, including Star-diaphragm.
000	2⅜	5 x 7	(8 x 10)	Hydrat	$43 50
000*a*	3	7 x 9	(10 x 12)	Hyla	49 00
00	3½	10 x 12	(11 x 14)	Hymne	52 50
0	4¾	12 x 16	(15 x 18)	Hyperbel	62 00
1	6	16 x 20	(20 x 24)	Hyperion	72 50
2*a*	7⅞	24 x 28	(25 x 30)	Hyrta	91 00

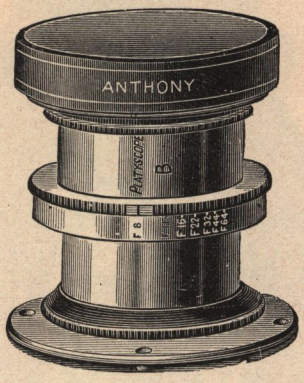
The above listed lenses are fitted with rotary diaphragms, giving openings corresponding to F 22 and F 31 (U. S. 30.[25]—60). This diaphragm is adjusted by means of a little pin projecting through the front part of the mounting.

They are besides provided with a hinged star-diaphragm and pneumatic movement for the same.

THE PLATYSCOPE LENS

Is another of the Rectilinear series of aplanatic lenses, and while more moderate in price than the Dallmeyer or Aristoscope, gives most excellent results. Besides giving the equivalent focus and measure of plate they will cover with full opening, we also state the circle of light, the marginal sharpness of which will depend on the diaphragm used. We guarantee every one.

The Platyscope Lenses are now fitted with Iris Diaphragm in place of the central stops, the desired opening being obtained by merely turning the ring on body of tube, which shows exact measure of opening. In these there are no loose diaphragms to get lost.



No.	Full Opening. Inches.	Small Stop. Inches.	Circle. Inches.	Diameter. Inches.	Equivalent Focus. Inches.	Price.
B	5 x 7	6 x 8	10¾	1¼	8½	$27 00
C	6 x 8	8 x 10	14	1⅝	11½	33 00
D	7 x 9	10 x 12	15	1¾	12½	37 00
E	8 x 10	11 x 14	19	2⅛	15½	43 00
F	10 x 12	14 x 17	24	2⅝	19½	62 00

LONG FOCUS PLATYSCOPE.

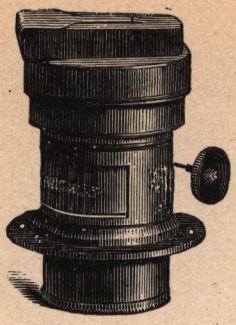
We have also some Platyscopes of longer foci, for use on distant objects, yachts, steamers, etc., where one desires them to be larger on the negative than when lenses of shorter foci are used. This makes possible the photographing of many things which would otherwise be impossible, as, for instance, views which from their distance would be too small to be of use. This lens, in fact, is exactly the reverse of a very short-focus, wide-angle lens, and is as valuable in its way for special work as is the wide-angle in its peculiar field.

Each lens is supplied with full set of diaphragms in a leather case.

No.	Full Opening. Inches.	Small Stop. Inches.	Back Focus. Inches.	Price.
AA	5 x 7	6½ x 8½	8	$15 00
BB	6½ x 8½	8 x 10	13¼	20 00

E. A. LENSES.

The attention of photographers who wish to procure a good lens, but who cannot afford to purchase those of the more expensive types, is respectfully invited to the following E. A. series of lenses, which will be found good and uniform, and the best obtainable for the prices named.



E. A. PORTRAIT LENSES (With Rack and Pinion).

		Back Focus. Inches.	Each.
1–4	Central Stop	4¾	$10 50
1–3	"	5	16 50
1–2	"	6	20 00
4–4	"	10	36 00

By removing the back combination, and screwing the front combination in its place, an excellent landscape lens is secured.

GEM TUBES.

These are exactly the same in working as the portrait lenses above mentioned, but have neither rack-work, hood, nor central stops. They come matched—the one-ninth in sets of 4, 6, or 9 each; the quarter size in sets of 2, 4, 6, or 8.

		Each.
1–9 size, 3	in. back focus	$2 00
1–4 " 4¾	" "	3 00

Brass plates for above supplied as follows :

For		Each.
Four 1–9	Tubes on 1–4 plate	$1 00
" 1–4	" " 5x7 "	1 50
Nine 1–9	" " 5x7 "	2 50

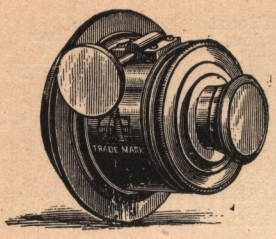
MORRISON WIDE-ANGLE VIEW LENSES.

These Lenses are absolutely rectilinear; they embrace an angle of fully 90 degrees, and are the most rapid, and are universally conceded to be the best *wide-angle* lenses made.

No.	Diameter of Lens.	Size of Plate.	Equivalent Focus.	Price Each.	
0..	15/16 in..	3 x 4¼ in.	2¼ in.,	$20 00	These six sizes will fit into 1 flange.
3..		4½ x 6½ "	4½ "	25 00	
4..		5 x 8 "	6 "	25 00	
5..		6½ x 8½ "	7 "	25 00	
6..		8 x 10 "	8½ "	30 00	
7...	1¼ in....	11 x 14 "	11½ "	40 00	
8...	1¼ " ...	14 x 17 "	13 "	50 00	

☞Nos. 1 to 6 are all made in matched pairs for stereoscopic work. The shorter focused Lenses are specially adapted for street and other views in confined situations. For general purposes, a pair of No. 5 Lenses will be found most useful.

E. A. VIEW LENSES.

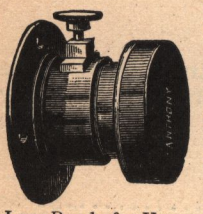


These are single combination lenses, used for landscape work only, but cover the plate very sharply. They have diaphragms in the front of the tube, and rack and pinion movement.

Size.	For View. Inches.	Focus. Inches.	Price, Each.
1–4	4 x 4	10	$6 00
1–3	8 x 10	12	7 25
1–2	10 x 12	15	9 00
4–4	14 x 17	20	18 00

E. A. RAPID LENSES (Hemispherical)

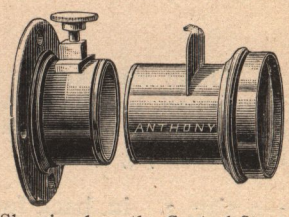
Have double achromatic combinations for making instantaneous views, portraits, groups, etc. The lens should be focused with the full opening. They are unusually fine lenses, and can be relied on as the best in the market for the price.



Lens Ready for Use.

No. 1 Rapid Lens, for 4 x 5 pictures.....$13 50

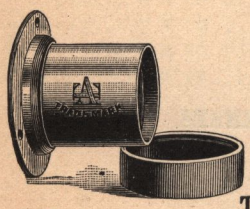
No. 2 Rapid Lens, for 5 x 8 pictures..... 20 00



Showing how the Central Stops or Diaphragms are inserted.

E. A. SINGLE COMBINATION LENSES.

For ordinary landscape work these lenses give very brilliant effects, fully covering the plates specified. They are the best lenses in the market at the price. No. 0 is in straight nickeled mount, with stationary diaphragm.



No.					Each.
0,	for 3¼	x 4¼	plates		$3 50
1,	" 4	x 5	"		3 75
2,	" 5	x 8	"		4 50
3,	" 6½	x 8½	"		7 00
4,	" 8	x 10	"		7 00

THE E. A. WIDE-ANGLE LENS.

This lens, being of short focus and of wide angle, and made on the rectilinear principle, is a useful one for architectural photography, and is not equaled at the price by any in the market. Those who cannot afford *the best*—the Dallmeyer—will find this an excellent substitute.

		Price.
No. 2.....	4¼ x 6½	$17 00
" 3.....	6½ x 8½	23 00
" 4.....	10 x 12	28 00
" 5.....	14 x 17	38 00

HELIOGRAPH LENS.

This is an excellent Medium-Angle Lens, which, if used with small stops, makes a wide-angle objective.

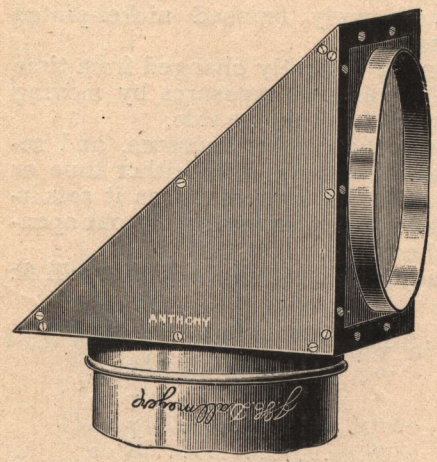
	Focal Length, Inches.	Covering with Large Stop.	Covering with Small Stop.	Price.
No. 2.	7	4¼ x 6½	6½ x 8½	$12 00
" 3.	8½	8 x 10	11 x 14	20 00

CONDENSING LENSES.

These are plano-convex, made of the best crown glass, finely polished and warranted.

Diameter. Inches.	Focus. Inches.	One Lens.	Pair of Lenses Mounted.
4	5½ or 6½	$1 50	$4 80
4⅛	5½ or 6½	1 65	6 00
4½	5½ or 6½	1 80	7 25
5	6½ or	2 10	9 00
5½	8	2 70	11 00
6	8	3 60	14 50
6½	8	4 80	22 00

Diameter. Inches.	Focus. Inches.	One Lens.	Pair of Lenses Mounted.
7	9	$6 90	$29 00
8	12	9 00	38 00
9	14	12 00	48 00
10	15	16 25	60 00
12	18	32 50	96 00
14	21	48 00	144 00



PRISMS.

For making non-reversed ferrotypes, and for copying plans, etc., by photo-lithography.

Inches. Square.		Each.
2½	Mounted in Brass	$30 00
3	" "	45 00
3½	" "	65 00
4	" "	85 00

These can be fitted to any lens by giving the diameter of front hood of the lens. It is preferable that the lens on which it is to be used be sent us, that the case containing prism may be made to screw on front end in proper position.

THE LOW SHUTTERS.

Each shutter is carefully inspected before leaving the factory, and all are guaranteed to be perfect and well made, and we can confidently recommend them to all who desire a thoroughly good shutter for either gallery or out-of-door work.

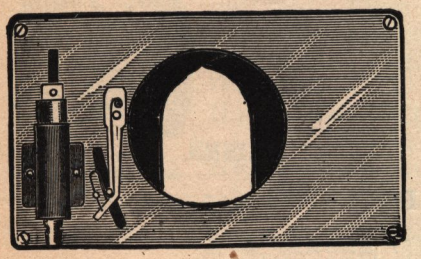
THE LOW SHUTTER is the recognized studio Shutter. It does entirely satisfactory work and is sold at a moderate price. The mechanism is simple and the user will be saved the annoyance that more complicated shutters often occasion.

Several of the shutters are adapted to outdoor instantaneous work, where they will be found as satisfactory as in the studio.

Each is tested before leaving the factory, and is guarranteed.

Order by number, giving size of opening in inches.

LOW "KAZOO" SHUTTER No. 1.



The Low "Kazoo" Shutter No. 1 is a handsomely finished nickel-plated shutter.

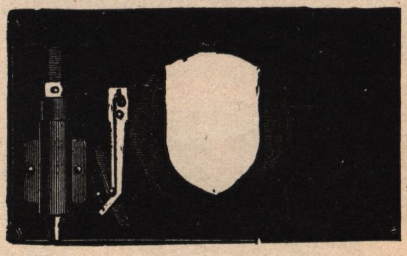
Can be instantly changed from time to instantaneous exposures by moving the small lever to one side.

Gives the correct exposure, and requires no setting after either time or instantaneous movement, as it sets itself after every exposure without opening the wings.

This shutter is provided with an adjustable spring back that will fit any size of lens tube.

						Price.
1½ in. opening,	4	in. long,	2¾	in. wide	.....	$6 00
1¾ "	4⅜	"	2⅞	"	.....	6 50
2 "	4⅞	"	3½	"	.....	7 00
2¼ "	5⅜	"	3⅞	"	.....	7 50
2½ "	6	"	4½	"	.....	8 00

LOW "KAZOO" SHUTTER No. 2.



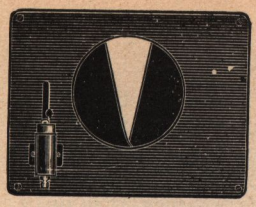
The Low "Kazoo" No. 2 is designed to be placed on the inside of camera, and attached to the front board.

It can be operated entirely from the outside of the camera and at any distance away.

To change from time to instantaneous exposures it is only necessary to push in or pull out a small brass pin, which passes through the front board and into the shutter. It will balance open for any length of time while focusing.

The "Kazoo" gives the correct exposure, lighting the drapery or foreground most.

						Price.
1½ in. opening,	4	in. long.	2¾	in. outside	.....	$6 00
1¾ "	4⅜	"	2⅞	"	.....	6 50
2 "	4⅞	"	3½	"	.....	7 00
2¼ "	5⅜	"	3⅞	"	.....	7 50
2½ "	6	"	4½	"	.....	8 00



LOW SHUTTER No. 3.

The Low Shutter No. 3 is designed to be attached to the front board on the inside of the camera.

It opens so as to light the drapery and foreground most. Will balance open while focusing. It is simple in its construction, and will not easily get out of order. For time exposures only.

Price.....$4 00 each.

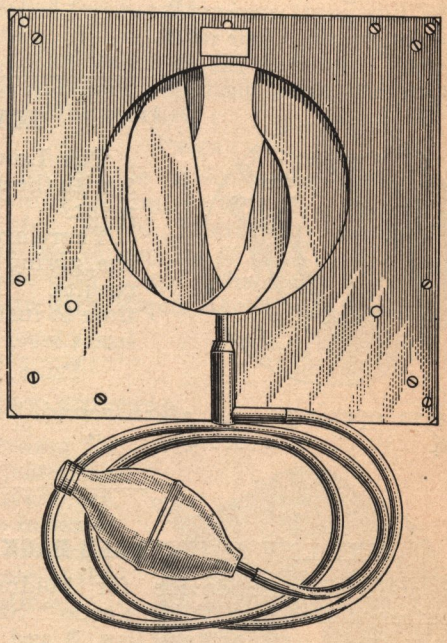
1½	in. opening.....	2⅞	in. wide.....	3⅞	in. long.
1¾	"	3⅛	"	4¼	"
2	"	3½	"	4¾	"
2½	"	4⅜	"	5⅞	"
3¼	"	5⅜	"	7¼	"
3½	"	6¼	"	7¾	"
4	"	7½	"	9	"

THE LOW SHUTTER No. 5, FOR STUDIO WORK.

The Low Shutter No. 5 is, we believe, the best studio shutter made. It works lightly and easily and has the special advantage of having a very large opening in a very small shutter, so is well adapted for cameras having small front boards.

While not admitting of instantaneous work, this shutter, in small sizes, serves excellently for time view work.

This shutter is practically noiseless in opening.



			Price.
1½	in. opening,	3 in. square..	$4 00
1¾	"	3½ " ..	4 00
2	"	4 " ..	4 50
2½	"	4¾ " ..	4 50
3	"	5 1/16 x 5⅝....	5 00

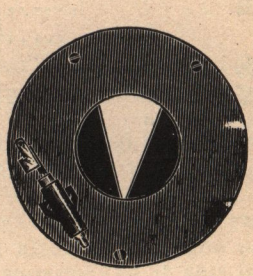
			Price.
3½	in. opening,	5⅞ x 6⅜.....	$5 50
4	"	6⅝ x 7	6 00
4½	"	7⅜ x 8	6 50
5	"	7⅞ x 9⅛.....	7 00

LOW SHUTTER No. 6.

The Low Shutter No. 6 is exactly the same as No. 5 with the addition of an instantaneous attachment, which can only be applied to the four smaller sizes of that series. To change from time to instantaneous exposures, it is only necessary to push in, or pull out a small brass pin, which passes through the front board into the shutter.

	Price.		Price.
1½ in. opening, 3⅛ in. square	$5 50	2 in. opening, 4⅛ in. square	$6 00
1¾ " 3⅝ "	5 50	2½ " 4⅞ "	6 00

LOW VIEW SHUTTER No. 8.



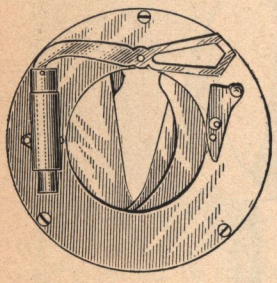
The Low View Shutter No. 8 is designed to make only time exposures.

It is simply constructed, and is a very practical shutter. It is nicely finished with nickel front, with nickel trimmings and mahogany back.

This shutter is practically noiseless in opening.

Price..... .....$4 00 each.

1½ in. opening.....3⅞ in. round.	2½ in. opening.....5 in. round.
1¾ " .....4¼ "	2¾ " .....6⅜ "
2 " .....4¾ "	



LOW VIEW SHUTTER No. 10.

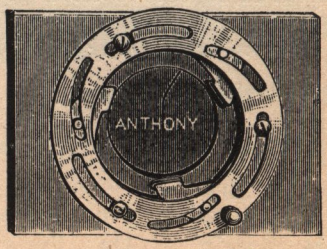
The Low Shutter No. 10 is the same as No. 8, with the addition of the instantaneous attachment.

There are now many hundreds of them in use, giving universal satisfaction and splendid results. They can be readily changed from time to instantaneous exposures by moving the brass lever to one side.

Price.....$6 00 each

1½ in. opening.....3⅞ in. round.	2 in. opening.....4¾ in. round.
1¾ " .....4¼ "	2½ " .....6 "

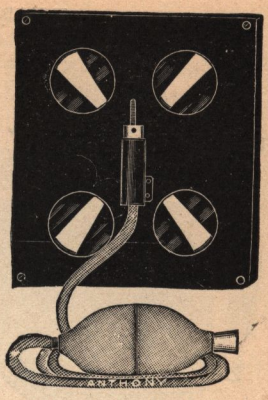
THE LOW ADJUSTABLE BACK



Is an automatic device for holding the shutter to the lens. All "Kazoo" Shutters No. 1, and Low Shutters Nos. 8 and 10, are provided with this back. When ordered separately, $1.00.

Size of Shutter.	Will Fit Lens.	Size of Shutter.	Will Fit Lens.
1½ in. opening.....	1½ to 1⅞ in.	2¼ in. opening.....	2¼ to 2⅝ in.
1¾ "	1¾ " 2⅛ "	2½ "	2½ " 2⅞ "
2 "	2 " 2⅜ "		

LOW BON-TON SHUTTER.

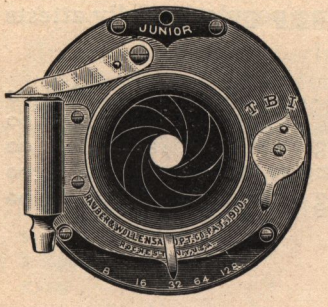


This is constructed on the Low Shutter principle, and, as shown in the cut, is adapted for making four bon-tons on a 5 x 7 plate. It is of the very best construction, will not get out of order, and works with a pneumatic bulb. By pressing the bulb and then removing the plug, the shutters will remain open for focusing.

Price.....$6 00

Extra parts cannot be supplied unless sample is sent to us as a guide. When wings become broken it would be much better to have the shutter sent to us for repairs as although the wings are designated by numbers we cannot guarantee to supply them that will fit properly unless the shutter is sent to us.

THE JUNIOR SHUTTER.



About two-thirds actual size.

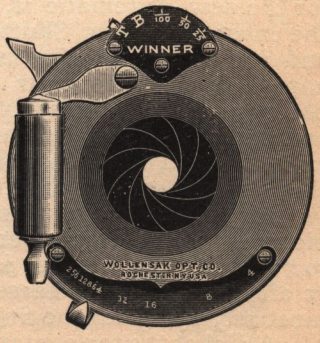
The Junior is a self-setting or automatic Shutter, always ready for use, being set and released by a single pressure of the bulb. It is arranged for instantaneous, time, and bulb exposures. Fitted with iris diaphragm, operated by an index at the bottom. This is without question the best moderate-priced Shutter in the market.

PRICE:

Fitted for Single Achromatic Lens, opening 16 mm., or 5/8 in.....$2 00
Fitted for Rapid Rectilinear Lens, opening 16 mm., or 5/8 in..... 2 50
Complete with Single Achromatic Lens 3 00
Complete with Rapid Rectilinear Lens 5 50

THE WINNER SHUTTER

The Winner—An appropriate name for such an excellent Shutter. It is adjusted for instantaneous, time, and bulb movements. Various speeds are indicated by an index at the top, while the iris diaphragms are regulated by means of an index and scale at the bottom. The 1902 model is automatic.

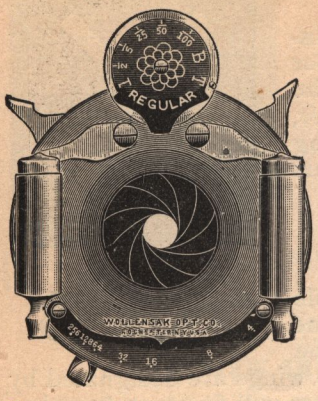


About three-fourths actual size of 4 x 5.

PRICE:

3 x 4, 16 mm.....$4 00
Winner Shutter, opening 22 mm. or 7/8 in. 5 00
5 x 7, 22 mm..... 6 00
6½ x 8½, 30 " 7 00
8 x 10, 40 " 8 00

REGULAR DOUBLE VALVE SHUTTER.



About seven-eighths actual size of 4x5.

The Regular Double Valve Shutter is without question one of the very best designs for general use yet placed on the market. The ease of adjustment, perfect working of all parts, compactness, and attractive appearance are noticeable features. The Double Valve Shutter has triplicate movement, operating for instantaneous, time, and bulb exposures. It is also fitted with both a finger and pneumatic release. On a dial at the top the various degrees of speed are indicated in fractional parts of seconds, and exposures of different lengths are secured by simply turning a milled head to the right or left. This adjustment is very much easier made in the Double Valve Shutter than in many others, for the dial revolves with great smoothness and can readily be moved by a slight pressure of the finger. The Shutter blades are so formed as to give the most even illumination possible. Just behind the blades we fit the iris diaphragms, operated by an index at the bottom. The scale is marked in accordance with the U. S. System.

By means of the valve, or retarding device, at the right, freedom from jar and accuracy of time are secured. The Double Valve Shutter has had an extensive sale, and its ever increasing popularity fully attests its merits.

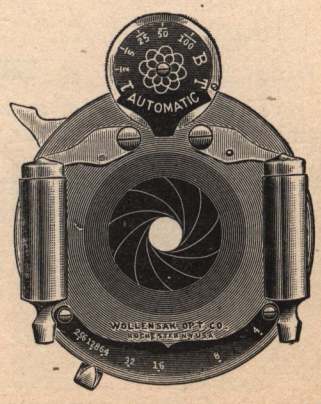
PRICE:

3	x 4, 16 mm	$	5 00
4	x 5 Regular Double Valve Shutter, opening 22 mm., or 7/8 in...		6 00
5	x 7 Regular Double Valve Shutter, opening 22 mm., or 7/8 in...		7 00
6½	x 8½ Regular Double Valve Shutter, opening 30 mm., or 1 3/16 ins.		8 00
8	x 10 Regular Double Valve Shutter, opening 40 mm., or 1 9/16 ins.		10 00

OUR NEW AUTOMATIC SHUTTER

WITH RETARDING DEVICE.

Our Automatic Shutter, fitted with Retarding Device, or Speed Regulator, is decidedly a twentieth century novelty. It is the result of many experiments and years of study, but we feel justified in the effort, for the new Automatic is, without question, the most ingenious Shutter in the market, and its many new features will strongly appeal to both amateur and professional photographers. It has triplicate movements, operating for time, instantaneous, and bulb exposures. The mechanism is so arranged that after an exposure is completed the Shutter automatically sets itself for the next picture. There can never be a question as to "whether the Shutter is set"—it is ready at all times, being released and set simultaneously by either the finger or bulb.



About seven-eighths actual size of 4x5.

A dial at the top contains various degrees of speed marked in fractional parts of seconds, and to regulate the Shutter it is only necessary to revolve the dial until the speed desired is opposite the index.

The Shutter blades are manufactured of a special material not affected by variations in temperature. They are so shaped as to give an even illumination. Back of the blades we fit the iris stops, which are operated by a lever at the bottom. The scale is marked in the U. S. System.

PRICE:

3 x 4, 16 mm	$ 8 00
4 x 5 New Automatic, opening 22 mm., or 7/8 in	10 00
5 x 7 New Automatic, opening 22 mm., or 7/8 in	11 00
6½ x 8½ New Automatic, opening 30 mm., or 1 3/16 ins	12 00
8 x 10 New Automatic, opening 40 mm., or 1 9/16 ins	14 00

STEREO SHUTTERS.

Winner, 3 x 4, (16 mm.)	$10 00
" 4 x 5, (22 mm.)	13 00
Regular, 3 x 4, "	12 00
" 4 x 5, "	15 00
Automatic, 3 x 4, "	17 00
" 4 x 5, "	20 00

FITTING SHUTTERS TO SPECIAL LENSES.

Unless a Lens is properly adjusted to the Shutter it cannot possibly yield the best work. The combinations must be accurately centered and mounted just the right distance apart. We have exceptional facilities for the correct fitting of all makes of Lenses.

PRICE FOR FITTING ONLY.

4 x 5 Lenses, average size, fitted to any style of Shutter	$1 00
5 x 7 " " " " " "	1 25
6½ x 8½ " " " " " "	1 50
8 x 10 " " " " " "	2 00
Fitting and adjusting Lenses, average size, to Stereoscopic Shutter,	2 00
Extra stop, or Diaphragm Plate, marked to correspond with Lens, extra	50

PRICE LIST OF FLANGES.

4 x 5 Brass Flange	$ 50
5 x 7 " "	75
6½ x 8½ " "	1 00
8 x 10 " "	1 50

ANTHONY'S DROP SHUTTER.

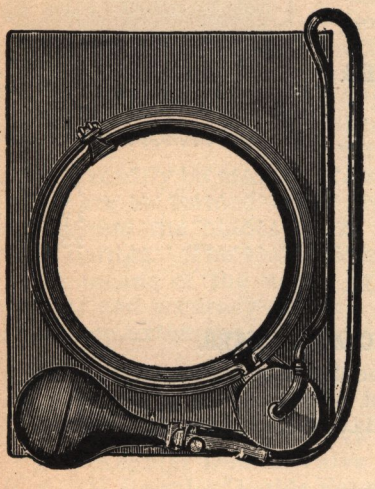
One of the neatest, simplest, and most practicable drop shutters ever made. It is adapted to either time or instantaneous movement by simply turning a small metal button, and the working of the shutter for either is simply perfect. The tension being obtained by the use of a rubber band, it may be set at great speed, or may be worked by gravity alone, if desired. This shutter will fit any lens tube from 1 to 2¼ inches in diameter.

Price, complete, with Rubber Tube and Bulb.....$2 00

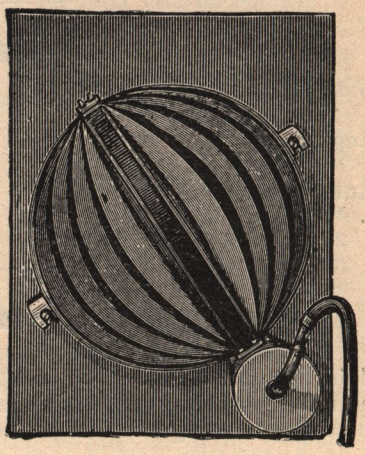
NOISELESS STUDIO SHUTTER.

The Shutter consists of a metal ring to which are attached two leather bellows which close together, forming a hemisphere. The action of opening and shutting is done by means of a pneumatic ball. The movement is perfectly noiseless.

The pressing of a lever by the side of the ball keeps the shutter permanently open after focusing. On raising the lever the shutter can be closed and is ready for use.



OPEN.



CLOSED.

4¾ inch opening	$15 00
5½ " "	16 00
6¼ " "	16 00

The above shutters are sold on order only.

Extra parts for above Shutters as follows :

Pear or bulb only	$0 60
Black Rubber Tubing, per yard	45
Expander Bellows	50
Latch or Cut-off	60

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CATALOGUE B.

Professional Cameras, Stands and Attachments

1904

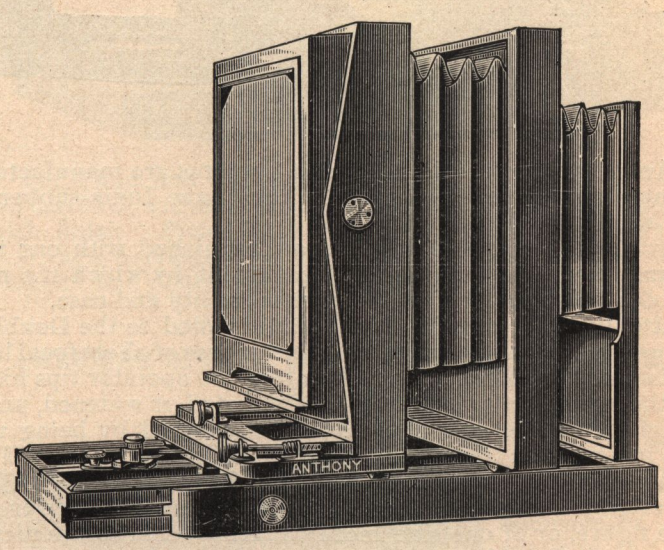
THE ANTHONY & SCOVILL COMPANY
122-124 FIFTH AVENUE, NEW YORK

Catalogue A.—Lenses and Shutters.
" B.—Studio Cameras, Stands and Attachments.
" C.—Hand and View Cameras, Enlarging, Lantern Slide and Micrographic Cameras, Plate Holders and Carrying Cases.
" D.—Professional Studio Sundries.
" E.—General Photo Sundries and Photographic Publications.
" F.—Chemicals, Films, Papers and Plates.
" G.—Photo-Engravers' Supplies.

CLIMAX PORTRAIT CAMERAS, FITTED WITH THE "BENSTER" PLATE HOLDERS.

Have Double Swing Back, Tangent Screw Motion and Telescopic Bed.

These cameras are manufactured in the most substantial manner from the best of mahogany, and handsomely finished with all late improvements, and are supplied with a lever attachment, by which the most minute adjustment of the focus may be instantly obtained.

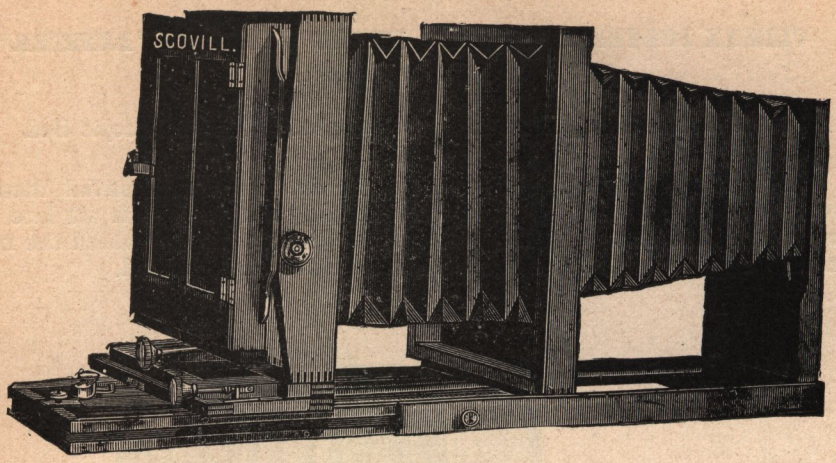


No. 14 B Climax Camera, withTelescopic Bed and Benster Holder.

Attachments, described on pages and can be used with these cameras at additional prices quoted for same. Smaller size Benster Holders can also be used by means of an adapter, at small additional cost.

No.			Price.
13 B.	11 x 14 and under ;	length of bed, 49 in	$64 00
14 B.	14 x 17 "	" " 60 in	76 00
15 B.	17 x 20 "	" " 65 in	90 00
16 B.	18 x 22 "	" " 77 in	100 00
17 B.	20 x 24 "	" " 77½ in	110 00
18 B.	22 x 27 "	Cameras made to order only	130 00
20 B.	25 x 30 "	" " " "	170 00

AMERICAN OPTICAL CO.'S HIGHEST GRADE PORTRAIT CAMERAS.



The American Optical Co.'s Portrait Cameras are manufactured from the best mahogany, French polished. They have India-rubber bellows, and the V-shaped wooden guides.

Larger sizes, 11 x 14 and upwards, are furnished with our telescopic platform and have Lever Focusing Attachment, by which the most delicate focus can be adjusted with the utmost facility and ease.

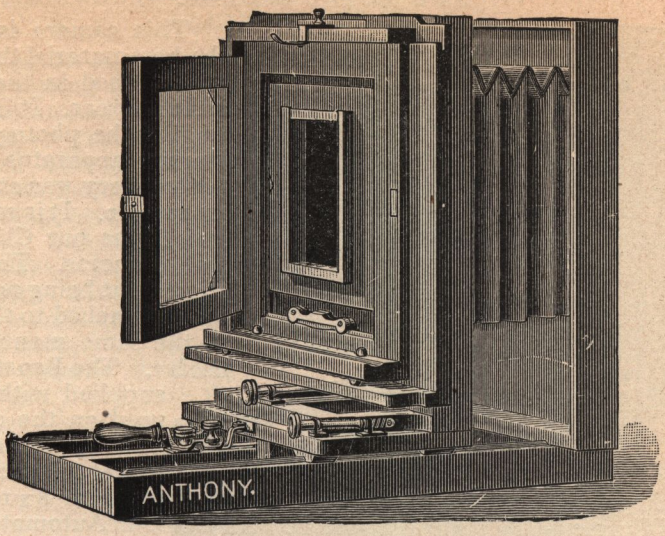
The attention of operators is especially called to the Double Swing-back on these fine Studio Cameras. When lenses of short focal length are used, the face is very often distorted, unless the operator tips his camera, and even then he is apt to get the face elongated or widened, unless he is very careful. Any operator who has been annoyed by being unable to reflect the image upon the ground glass without distortion, will see how completely this arrangement overcomes the difficulty.

Very often it is desirable to get a little more of the lower or upper part of the figure, or of one side more than the other in the picture than can be done with the old style camera, without moving the person or the camera. This can be done quickly by means of the Double Swing-back, which allows the operator to make any change, laterally or vertically, he desires, until the figure is properly delineated on the ground glass.

No.	To Cover Plate.						With Double Swing-back.
5	8 x 10,	with platform	30	in.	long		$ 38 00
6	10 x 12,	"	36	"			48 00
7	11 x 14,	"	48	"	and vertical shifting front		64 00
8	12 x 15,	"	48	"	"		72 00
9	14 x 17,	"	60	"	"		76 00
10	16 x 20,	"	65	"	"		88 00
11	17 x 20,	"	65	"	"		90 00
12	18 x 22,	"	70	"	"		100 00
13	20 x 24,	"	72	"	"		110 00
14	22 x 27,	"	72	"	"		130 00
15	25 x 30,	"	80	"	"		170 00
16	30 x 38,	"	100	"	"		350 00

These Portrait Cameras are fitted with the Waterbury Curtain Slide Holders, unless Benster or Bonanza Holders are wanted and that preference is indicated when order is given.

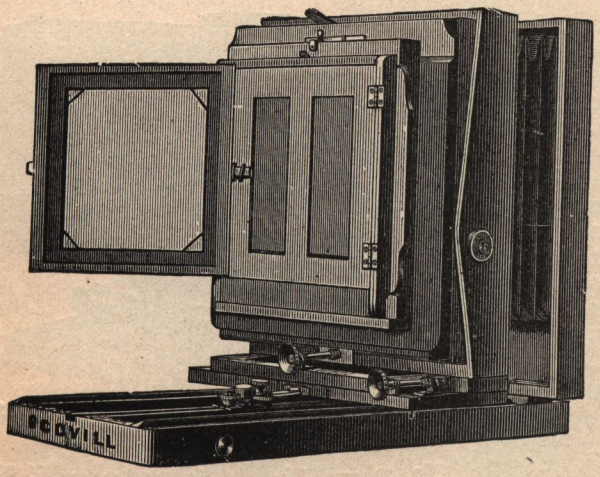
CLIMAX IMPERIAL CAMERAS.



No. 19C. For 8 x 10 and under, and two cabinets on 8 x 10 plate, or two cartes de visite on smaller plate; length of bed, 28½ in. Varnish finish. Fitted with "Benster" Holder, 13¾ x 13¾, and carriage movement on our patent rollers, lever focusing attachment, and double swing-back without divisions.....$28 00

THE AMERICAN OPTICAL CO.'S BOSTON IMPERIAL CAMERAS.

EXTRA QUALITY.

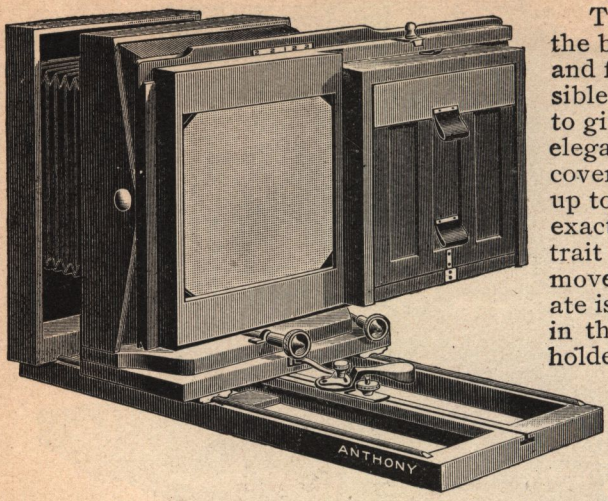


The 11 x 14 Boston Imperial Camera is the same as an 11 x 14 Portrait Camera, with the addition of an 8 x 10 carriage and an 8 x 10 holder, and is used to make two imperials on an 8 x 10 or 4-4 plate, using one 4-4 lens; two cards on a 5 x 8 plate, using one-half size lens; two large panel pictures,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

							With Double Swing-back.
No. 30.—11 x 14	Boston Imperial Camera,	with	8 x 10	attachment and holder,	.....	$85 00
" 31.—14 x 17	"	"	"	" 8 x 10	"	.....	100 00
" 32.—17 x 20	"	"	"	" 8 x 10	"	.....	110 00
" 33.—18 x 22	"	"	"	" 8 x 10	"	.....	120 00
" 34.—20 x 24	"	"	"	" 11 x 14	"	.....	140 00

The Boston Imperial Cameras are fitted with the Waterbury Curtain Slide Holders, unless Bonanza or Benster Holders are wanted and that preference is indicated when order is given. Sizes above 11x14 are made to order only.

NEW ROYAL CAMERA.



This camera is made of the best material throughout, and finished in the best possible manner. It is designed to give the photographer an elegant apparatus that will cover every variety of work up to 8x10. It is constructed exactly as our Climax Portrait Cameras. The carriage movement being made separate is attached to the camera in the same manner as the holder. The Benster Holder supplied with it can be used on the camera itself by removing the Royal Attachment, a separate 8 x 10 Ground Glass and Frame being supplied with it. Any of our Automatic Attachments can be used in connection with this camera if so desired.

8x10 size, complete....$55 00 | 11x14 size, complete....$95 00

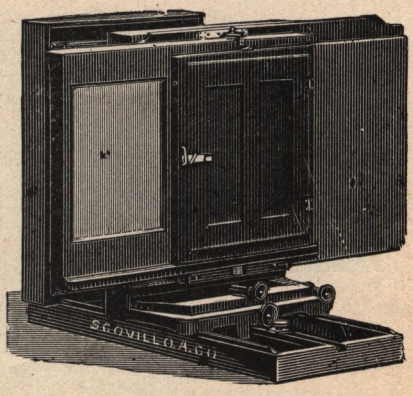
SPECIFICATIONS:

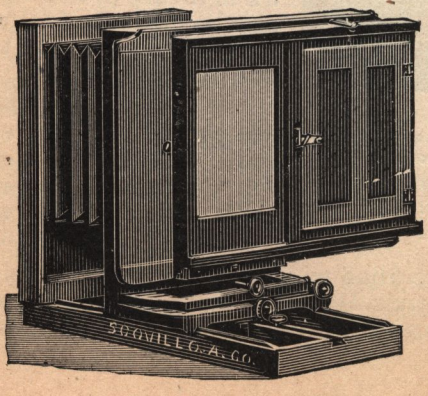
Length of Focus, 18 inches. Size of Front Board, **9 x 9.**
Weight when packed for shipment, 75 lbs.

THE AMERICAN OPTICAL CO.'S ROYAL CAMERAS.

EXTRA QUALITY.

This camera does precisely the same work as an Imperial Camera, and has all the latest improvements. It has a carriage for the plate-holder, and the ground glass is placed where it is always ready to be brought into use. When the operator brings the plate-holder from darkroom, 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 this, he merely slides the ground glass to one side, in place of removing it, and simultaneously brings the plate-holder into place.





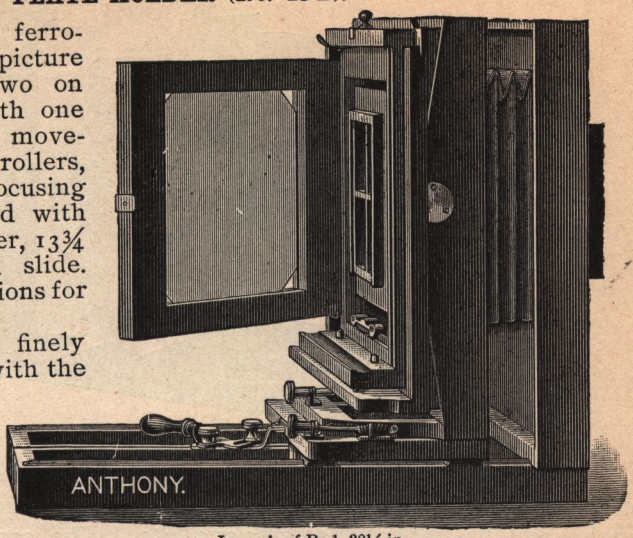
No. 40.	— 8x10	Royal Camera,	Double Swing-back	.....$55 00
" 40½.	—10x12	"	"	..... 66 00
" 41.	—11x14	"	"	..... 85 00
" 42.	—14x17	"	"	.....110 00

The American Optical Co.'s Royal Cameras are fitted with the Waterbury Holders, unless Bonanza or Benster Holders are wanted and that preference is indicated when order is given.

CLIMAX CINCINNATI GEM CAMERA, FITTED WITH THE "BENSTER" PLATE HOLDER (No. 43 B).

For negatives or ferrotypes (admitting of picture 8 x 10 and under, two on 8x10, 7x10, or 5x7 with one lens), with carriage movement on our patent rollers, double swing, lever focusing attachment, and fitted with the "Benster" Holder, 13¾ x 13¾, with wooden slide. Diaphragms and divisions for ferrotype work.

This camera is finely polished, and fitted with the best of metal work.



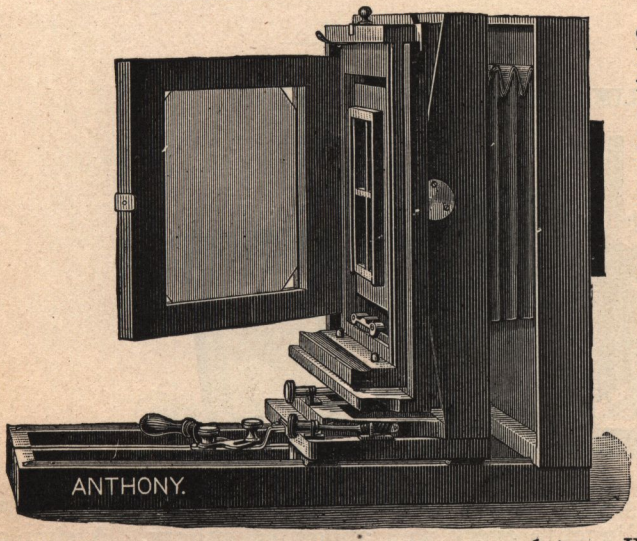
Length of Bed, 30½ in.

No. 43 B. Double Swing.....$40 00

When fitted with four 1-4 Gem Tubes on plate, it will admit of eight on 7 x 10, and four on 5 x 7.

Double Swing, fitted with four ¼ gem tubes on plate.....$55 00

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

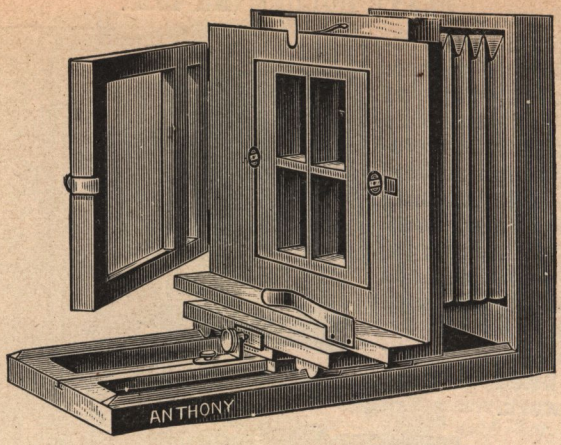


The best every-day camera in the market. Made with carriage movement and swinging ground glass, lever focusing attachment, extension bellows, rabbeted holder, 13¾ x 13¾, and kits for dry plate and ferrotype work. A Benster holder may be used with this camera if desired. With a single 6½ x 8½ or 8 x 10 lens it will make all regular work reversible, from 4½x6½ 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 lens, copying and enlarging to 8x10; with four 1-4 Gem lenses 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.

No. 43 C. All complete, except lenses.....$24 00
Same, but with Benster Holder..... 30 00
Four ¼ Gem Tubes on brass plate, to fit either of above cameras.... 15 00

SPECIFICATIONS:—Length of Focus, 18 inches; Size of Front Board, 9x9; Weight packed for shipment, 72 lbs.

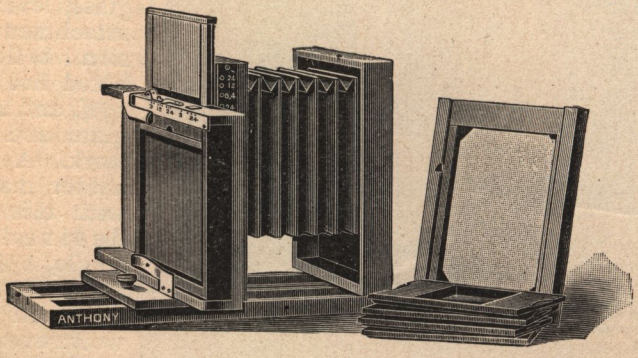
5 x 7 IMPROVED VICTORIA CAMERA.



For making 5 x 7, 4¼ x 5½, and 3¼ x 4¼ pictures, and reversible, and 4 or 8 on 5x7 plates, with 4 Gem lenses. It is handsomely finished in mahogany, has rabbeted shields and kits. The camera has several improvements over anything heretofore offered to the trade.

	Price.
Without lenses	$12 00
With four 1-4 Gem lenses on plate	25 00
Extra diaphragms for 9 or 18 on a 5x7 plate	2 00
Extra holders	5 00

CLIMAX MULTIPLYING CAMERA.



For making 1, 2, 3, 4, 6, 12, or 24 pictures on a 5x7 plate. This camera is an indispensable adjunct to every well appointed gallery. A simple sliding movement of the camera back, adjusts it to use for either of the combinations above named.

It is very useful for children's pictures or where a number of small negatives of the same subjects are to be made quickly.

Price, with extra Kits, Ground Glass, and Plate Holder,	$12 00
Extra Holders, each	2 00

NEW YORK STUDIO OUTFIT.

NEW YORK STUDIO OUTFIT.

This Outfit is, without exception, the most Complete and the Cheapest for the Studio. It includes :

I.—11 C 8x10 Mahogany Portrait Camera, of newest design, fitted with double swing back, and patent lever focusing attachment. Fitted also with curtain slide Benster Holder, the most perfect plate holder in existence..... $25 00

13 C 11x14 Camera, same as above..... 55 00

II.—Anthony's Automatic Cabinet Attachment, with one curtain slide holder, by means of which, in one movement, the ground glass is pushed aside and holder placed in position with slide automatically drawn ready for exposure..... 10 00

Extra Holders, with curtain slide, 4¼x6½, 5x7, or 5x8, each.. 1 50

III.—No. 1 New York Camera Stand, the most modern studio stand, having only one hand wheel for raising, lowering, and tilting the top..... 18 50

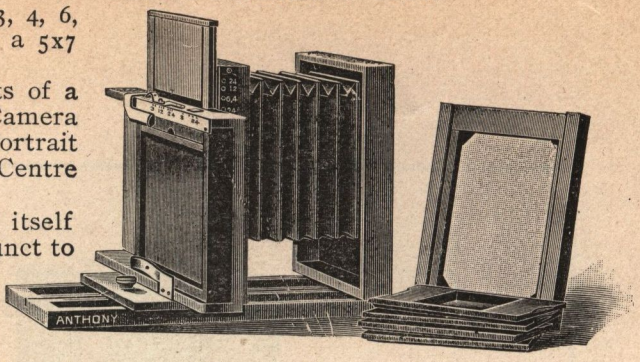
IV.—Holder Rack, carried on the side of the stand, and having thirteen grooves for twelve plate holders..... 1 25

8 x 10 Outfit..... 50 00
8 x 10 Outfit, with No. 5 Auto. Attachment..... 52 50
11 x 14 Outfit..... 75 00
11 x 14 Outfit, with No. 6 Auto. Attachment..... 77 50

NOTE.—The 13 C Camera, which forms a part of the 11 x 14 Outfit, has telescopic bed.

NOTICE.—New York Outfits must be ordered complete in order to obtain outfit price, otherwise each part will be charged for separately at its respective price.

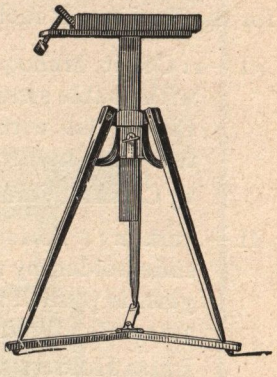
ANTHONY'S PENNY PICTURE OUTFIT.



For making 1, 2, 3, 4, 6, 12, or 24 pictures on a 5x7 plate.

This Outfit consists of a Climax Multiplying Camera fitted with a ¼ Gem Portrait Tube, and an Iron Centre Camera Stand.

This Camera is of itself an indispensable adjunct to every well-appointed gallery. A simple sliding movement of the camera back, adjusts it to use for either of the combinations above named. It is very useful for children's pictures, or where a number of small negatives of the same subject are to be made quickly.



Price of the complete Outfit.....$18 00

Price of Camera with extra kits, ground glass and plate holder, but without lens or stand..... 12 00

Extra Holders, each..... 2 00

FERROTYPE OUTFITS.

We detail a few outfits for the benefit of those who are unacquainted with the necessary apparatus and supplies.

FERROTYPE OUTFIT D FOR $60.

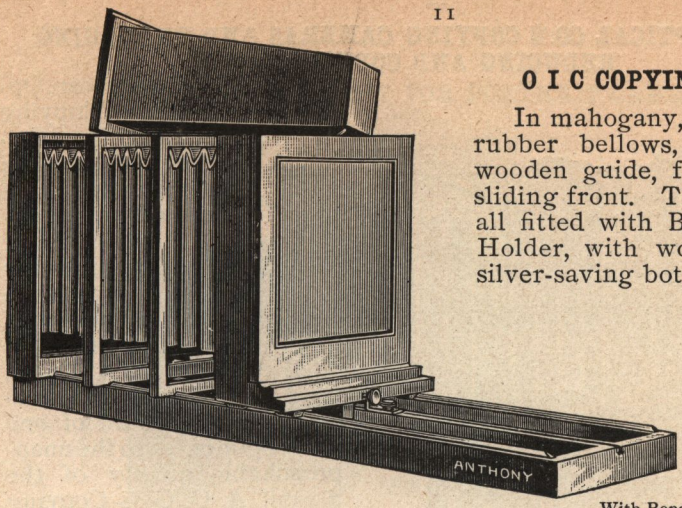
For 4 or 8 on 5x7 plate, with 4 tubes, and 1 or 2 on 5x7 plate, with one tube.

1 5 x 7 Victoria Camera, fitted with 4 1–4 Tubes.
1 ½ E. A. Portrait Lens.
50 10 x 14 Ferro. Plates.
500 No. 11 Envelopes.
1 Iron Center Camera Stand.
2 ½-pint Glass Funnels.
1 Effective Collo. Vial.
1 3-oz. Graduate.
1 Alcohol Lamp.
1 box Dry Colors and Brushes.
½ pint jar Professional Paste.
1 1-in. Paste Brush.
1 Quill Duster.
1 7 x 10 Glass Bath.
1 No. 5 Rubber Dipper.
1 pint Silver Bath Solution.
1 Lot Sundries, as follows:
1 tall Centennial Head Rest.
½ lb. New Ferro. Collo.
1 lb. Acetic Acid.
1 lb. Iron.
1 pint Alcohol.
¼ lb. Cyanide Potass.
1 bottle Diamond Varnish.
2 oz. Absorbent Cotton.
1 copy "Estabrooke's Ferrotype Manual."

FERROTYPE OUTFIT E FOR $87.50.

For making 4 or 8 on 5 x 7 plate, with four tubes and single pictures from 8 x 10 to 3¼ x 4¼, or two on 8 x 10, with one lens.

1 43 C Portrait and Gem Camera, fitted with 4 1–4 Tubes.
1 6½ x 8½ E. A. Portrait Lens.
50 10 x 14 Ferro. Plates.
500 No. 11 Envelopes.
1 9 x 12 Glass Bath.
1 No. 5 Rubber Dipper.
1 quart Silver Bath Solution.
1 Lot Sundries, same as in Outfit D.

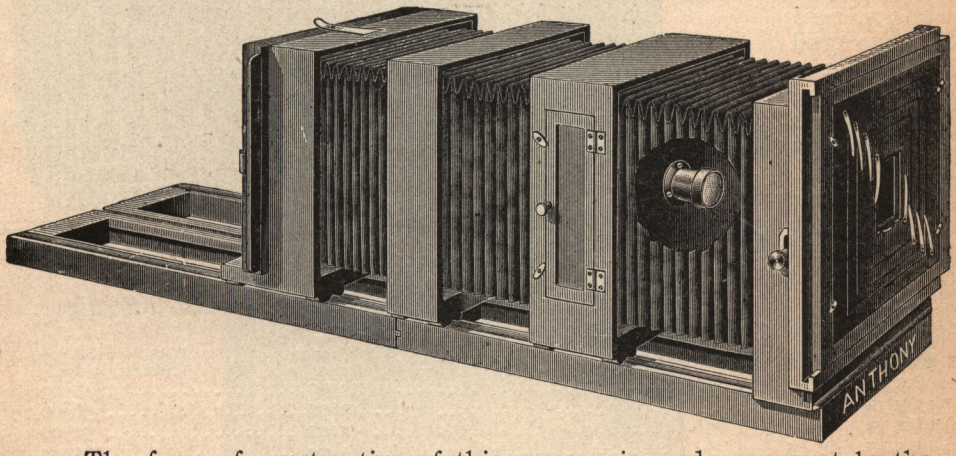


O I C COPYING CAMERAS.

In mahogany, with extra long rubber bellows, cone, improved wooden guide, focus, screw and sliding front. These cameras are all fitted with Benster or Screen Holder, with wooden slide and silver-saving bottle.

No.		Size.	With Benster Holder.	With Lined Screen Holder.
28.	With 3¾ foot bed	8 x 10	$33 00	$48 00
29.	" 4 "	10 x 12	42 00	58 00
30.	" 4½ "	11 x 14	52 00	71 00
31.	" 5 "	14 x 17	65 00	85 00
32.	" 6 "	17 x 20	72 00	92 50
32½.	" 7 "	18 x 22	85 00	107 50
33.	Made to order only	20 x 24	112 00	122 00

CLIMAX ENLARGING, REDUCING AND COPYING CAMERAS.

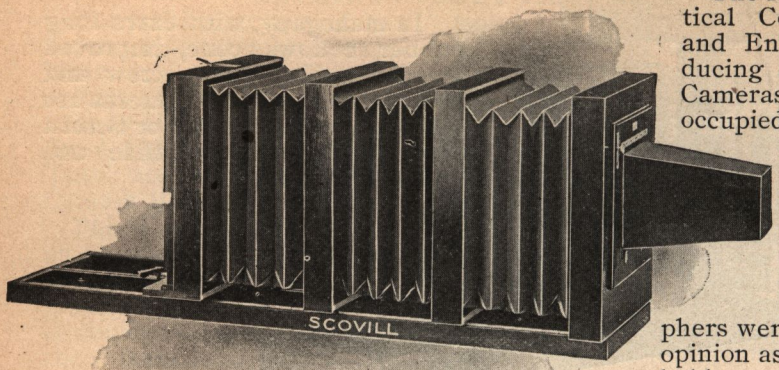


The form of construction of this camera is made apparent by the illustration here shown. An important feature in this camera, found in no other, is that the centre-board with lens can be used in the end of the camera, converting it at once into an extra long copying camera. This will be found very advantageous in enlarging small pictures by one operation. These cameras are all fitted with the Benster or Screen Holder, with wooden slide and silver-saving bottle.

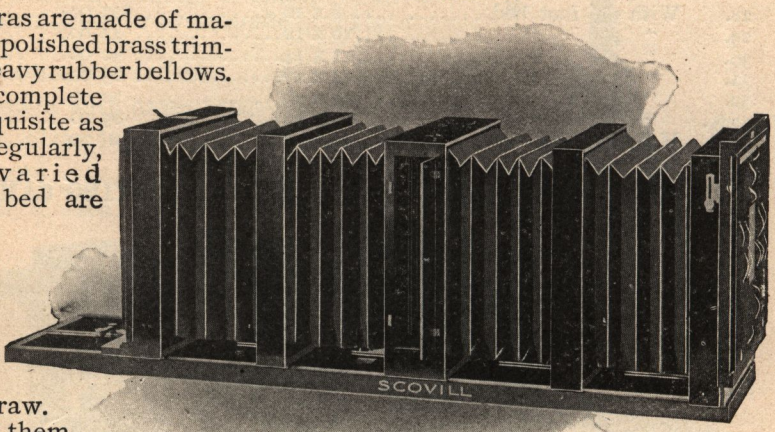
		With Benster Holder.	With Lined Screen Holder.
8 x 10,	With 5⅓ foot bed	$38 00	$53 00
10 x 12,	" 6 "	54 00	70 00
11 x 14,	" 7 "	65 00	84 00
14 x 17,	" 8 "	84 00	103 00
17 x 20,	" 9 "	100 00	120 50
18 x 22,	" 9 "	110 00	132 50
20 x 24,	" 10 "	124 00	148 00

Special sizes and styles made to order.

AMERICAN OPTICAL CO.'S COPYING CAMERAS AND ENLARGING, REDUCING AND COPYING.



The American Optical Co.'s Copying and Enlarging, Reducing and Copying Cameras have always occupied a unique position. Long before the advent of the process of photo-engraving, photographers were all of one opinion as to the unapproachable quality of the Scovill A. O. Co.'s Copying Cameras.



The cameras are made of mahogany, with polished brass trimmings and heavy rubber bellows. They are complete in every requisite as supplied regularly, but such varied lengths of bed are required and ordered that we can only give the prices for cameras with the regulation draw. We make them to order of any size or style desired, with either rigid or detachable bed, and shall be glad to furnish quotations for cameras as desired for any special line of work.

American Optical Copying Cameras.

	With Bonanza Holder.	With Scovill-Levy Screen Holder.
8 x 10, with 3¾ foot bed	$33 00	$48 00
10 x 12, " 4 "	42 00	58 00
11 x 14, " 4½ "	52 00	71 00
14 x 17, " 5 "	65 00	85 00
17 x 20, " 6 "	72 00	92 50
18 x 22, " 6⅓ "	85 00	107 50
20 x 24, " 7 "	98 00	122 00

Enlarging, Reducing and Copying Cameras.

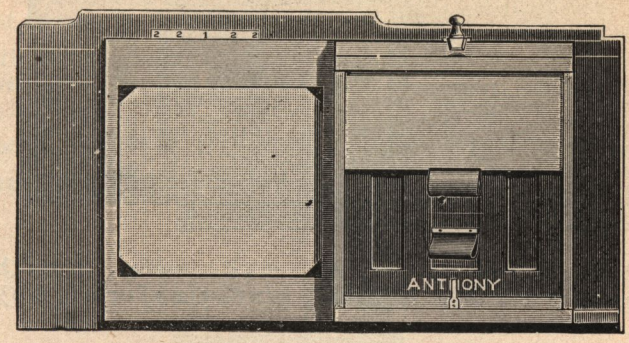
	With Bonanza Holder.	With Scovill-Levy Screen Holder.
8 x 10, with 5⅓ foot bed	$38 00	$53 00
10 x 12, " 6 "	54 00	70 00
11 x 14, " 7 "	65 00	84 00
14 x 17, " 8 "	84 00	103 00
17 x 20, " 9 "	100 00	120 50
18 x 22, " 9 "	110 00	132 50
20 x 24, " 10 "	124 00	148 00

Scovill-Levy Photo-Engravers' Adjustable Screen Holders.

	Holders Only.	Ground Glass and Frame.
8 x 10	$25 00	$3 00
10 x 12	32 00	3 25
11 x 14	40 00	3 50
14 x 17	44 00	4 00
17 x 20	$48 00	$4 50
18 x 22	52 50	5 50
20 x 24	59 00	6 50

ROYAL ATTACHMENT FOR PORTRAIT CAMERAS,

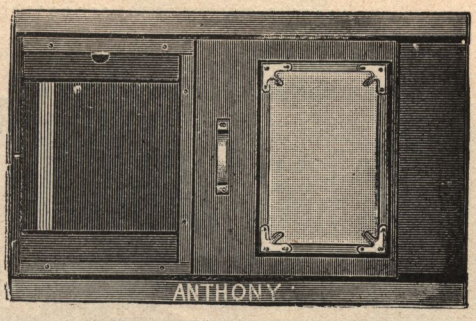
as shown in cut, is fitted with Benster Holder, working 8 x 10 plate and smaller; two 5 x 8 on an 8 x 10 plate; two 4¼ x 6½ on a 6½ x 8½ plate; two 4 x 5 on a 5 x 8-plate, etc.



PRICES:

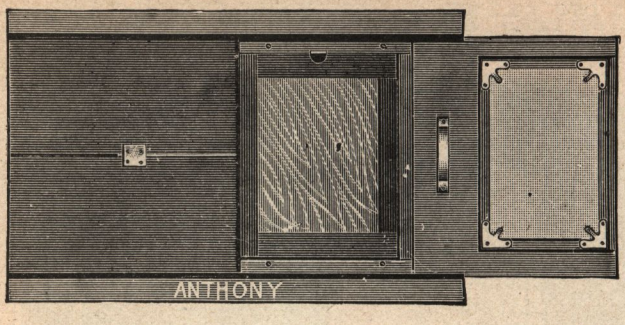
Attachment for	8 x 10	Camera	$27 00
"	11 x 14	"	29 00
"	14 x 17	"	32 00

THE ANTHONY IMPROVED AUTOMATIC CABINET ATTACHMENT



Was awarded the diploma for best improvement in apparatus at the P. A. of A. Convention at St. Louis, and at the P. A. of Ohio. It consists of a back that can be fitted to any 8 x 10 or larger camera, and has a ground glass and receptacle for plate holder on a sliding carriage which moves from left to right. The plate holder being adjusted, and the focusing being done, the carriage is moved and the ground glass is replaced by the plate holder, *the curtain slide being automatically withdrawn.* No lifting out of ground glass or fumbling with the slide. The one movement shifts the ground glass and places the holder ready for exposure. A movement from right to left inserts the slide, and the ground glass is restored to its position behind the lens. In ordering the

Automatic Attachment, it will be necessaryto give the height, width and thickness of your plate holder, and state the name of maker of the camera, and, if possible, the name of the camera. The Automatic Attachment will



be made to fit any 8 x 10, 10 x 12, or 11 x 14 camera. It fits the camera where the ordinary holder is adjusted; 5 x 8, 5 x 7, or 4¼ x 6½ holders are supplied, as desired.

AUTOMATIC ATTACHMENTS.

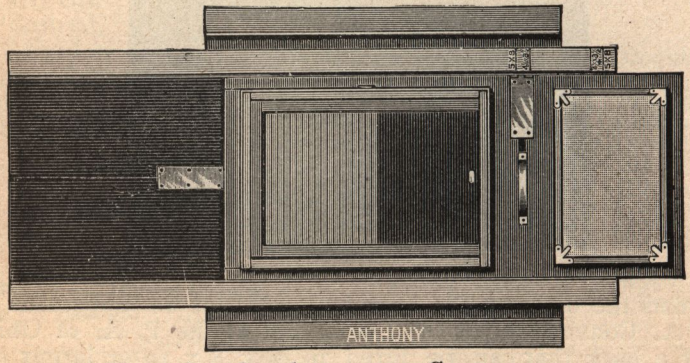
No. 1. Regular Attachment (for one on 4¼ x 6½, 5 x 7, or 5 x 8 plates, as preferred), to fit on 8 x 10 Camera, including one Curtain Slide Holder for either of the above size plates. This is same as supplied with 8x10 New York Studio Outfit. Price including one Holder..... $10 00

Extra Holders, each..... 1 50

No. 2. Same as No. 1, but fitted to 11x14 Camera..... 12 00

No. 3. Attachment to fit 8 x 10 No. 11C Camera, with 8 x 10 Horizontal (Curtain Slide) Holder and Kits for 7 x 10 and 6½x8½, for two exposures on 8 x 10, 7 x 10, or 6½ x8 ½ plate, or two each of 5 x 8, 5 x 7, or 4¼ x 6½ plates can be used in same..... 13 00

Extra 8 x 10 Holders, each..... 4 00



No. 4. Same as No. 3, but fitted to 11 x 14 Camera..... 15 00

No. 5. Attachment to fit 8 x 10 No. 11 C Camera, fitted with one 5 x 7 Reversible Holder (Curtain Slide) for 5 x 7 Vertical or Horizontal, or two on 5 x 7..... 12 50

Extra 5 x 7 Reversible Holders, each..... 2 00

No. 6. Same as No. 5, but fitted to 11 x 14 Camera..... 14 50

No. 7. Attachment to fit 11 x 14 Camera, fitted with 6½ x 8½ Reversible Holder, with Curtain Slide..... 16 50

Extra 6½ x 8½ Reversible Holders, each..... 3 00

Where Automatic Attachments are desired for larger sizes of Cameras than above, add as follows:

For 14 x 17 Camera.....add $1.50 to price of 11 x 14
For 17 x 20 " .....add 3.00 " 11 x 14

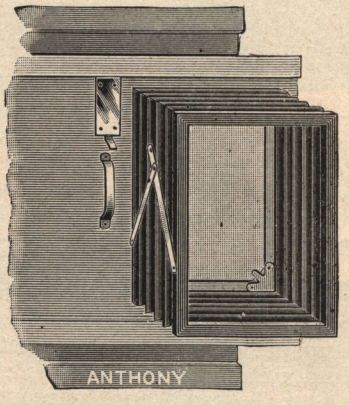
Order attachments by number only and state size of plate you wish attachment to take.

No. 8. Attachment to fit No 11 C Camera, fitted with one 5 x 8 Reversible Holder for 5 x 8 Vertical or Horizontal or two on 5 x 8.....$12 50

Extra 5 x 8 Reversible Holder, each..... 3 00

No. 9. Same as above, but fitted to 11 x 14 Camera..... 14 50

TELESCOPIC FOCUSING HOOD.



To fit any of the Anthony Improved Automatic Attachments, by means of which the use of the focusing cloth is entirely done away with.

Price.....$2 50

In ordering give number of attachment for which hood is required.

SIMPLEX MULTIPLYING ATTACHMENT.

NOT ONLY NEW BUT GOOD.

A money saver, hence a money maker.

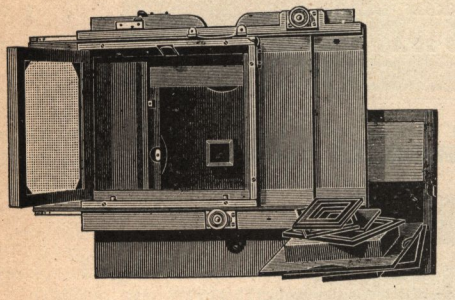
What's new about it?

In a nutshell, this multiplier is an improvement over all other multiplying devices in that it is attached, not to the plate holder **but to the camera.** Hence, regular plate holders and with a supply of these the operator can make a large number of consecutive exposures, without running back and forth each time a fresh plate is wanted as is the case when the multiplying attachment is a part of the holder.

In use it is simple, practical, durable.

What you can do with it.

The attachment can be used on any 8 x 10 gallery camera, and is fitted with a 5 x 7 reversible holder. It enables the operator to make a full exposure on a 5 x 7 or smaller plate, either vertically or horizontally; also to make 2, 3, 4, 6, 8, 12, or 24 pictures on a 5 x 7 plate by changing index rod and diaphragm, without changing either camera or lens. Any other number of exposures can be made if desired, but the attachment is fitted, unless otherwise ordered, as above.



TO MAKE 8 PICTURES ON A 5 x 7 PLATE.

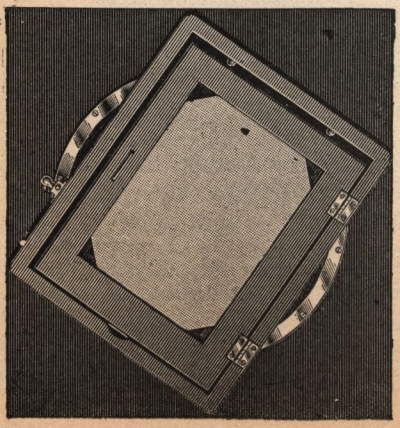
Swing the Ground Glass out of position and by means of the two racks and pinions move the carriage to the center of the back. Insert the blacked wooden diaphragm marked 8 in vertical position. Turn the horizontal index bar until 8.12 H. appear on top, and slide carriage to the right until the spring engages the farthest notch in the said bar.

Next turn the vertical index bar so that 4-6-8-H show in front, and lower the carriage until the spring engages the lower notch in vertical bar. It is now in position for the upper left hand picture. Expose and move carriage to the left until spring engages the next notch for second picture, and so on until four exposures have been made. Then raise the carriage by means of the upper rack and pinion until the spring engages the upper notch in vertical index bar. Expose, and then slide carriage to the right until spring engages the next notch, and continue until four exposures have been made. Each notch denotes the proper point for the exposure. The Index Bars are marked H & V opposite the numbers designating which are to be used for horizontal or vertical pictures. Where more than one number appears on the index bar, in front of H or V, it means that the same side is used for making both sizes of picture, the difference appearing on the other index bar. (The diaphragms for 4, 6, 8, and 12 use the same body, merely requiring the opening changed by using the proper kits as marked on each.)

Price.... .....$16 00

SCOVILL "EMPIRE" REVOLVING BACK ADJUSTER.

PATENTED.



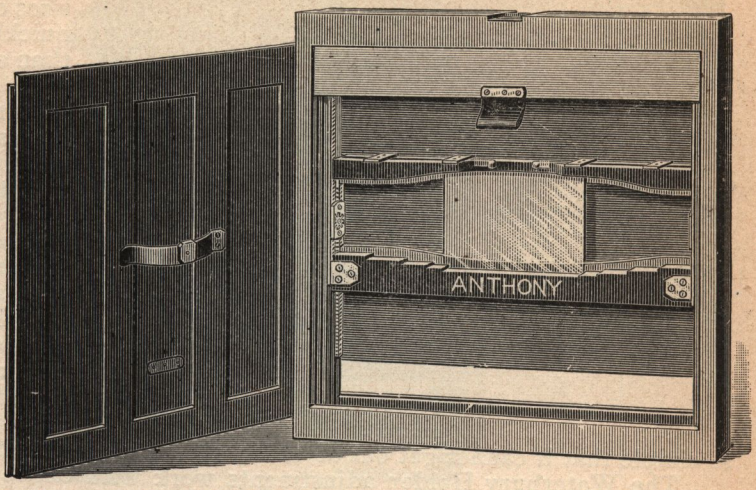
Is an attachment made to fit either an 8x10 or 11 x 14 N. Y. Studio outfit, that is to say an 11C or 13C Anthony Portrait Camera. The adjuster is fitted with either 4¼ x 6½, 5 x 7, or 5 x 8 Curtain Slide Plate Holders. The great advantage of a revolving back will be at once apparent to any photographer as the plate may be quickly reversed or placed in any desired position. This adjuster is a desirable adjunct to a New York Studio outfit.

PRICE :

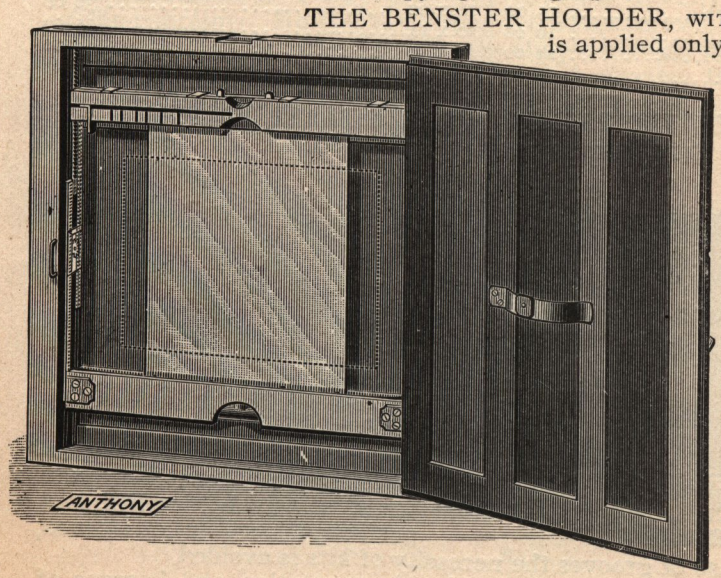
8 x 10.....$12 00
11 x 14..... 15 00
Extra 4¼ x 6½, 5 x 7, or 5 x 8 Holders, each..... 1 50

THE "BENSTER" PLATE HOLDER, WITH CURTAIN SLIDE.

The glass plate rests on a wooden ledge, notched for different sized plates. As the lower ledge is raised, the upper ledge descends, so that the centre of the plate is at all times in the centre of the holder, no matter what size is used. This obviates the use of inside kits, and adapts itself at once to any size of plate, from the largest the holder will admit to one not under 3 in. square. This is unquestionably the best gallery plate holder made. The ledges may be instantly fastened for plates of any size. For dry plate studio work, it is the holder *par excellence.* It is fitted to all Climax Cameras, with the exception of the 43 B, 43 C, copying, enlarging and reducing cameras.



THE BENSTER HOLDER, WITH WOODEN SLIDE, is applied only to boxes for wet plate work, such as 43 B and copying cameras, and in these holders the plate rests on pure silver wire, and there is a trough with large bottle underneath, into which all the silver waste readily finds its way.

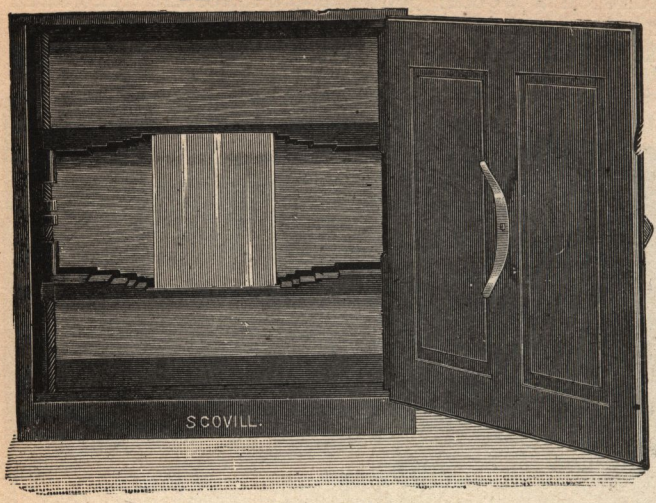


The prices of Benster Holders for portrait and E. R. and copying cameras are as follows:

							Price.
For	8 x 10	plate and under,	12¾	in. wide,	13½	in. high	$10 00
"	8 x 10	" "	13¾	"	13¾	"	10 00
"	10 x 12	" "	15	"	15¾	"	16 00
"	11 x 14	" "	17	"	17¾	"	21 00
"	14 x 17	" "	20½	"	21	"	24 00
"	17 x 20	" "	23½	"	24	"	27 50
"	18 x 22	" "	26	"	26½	"	30 00
"	20 x 24	" "	28	"	28½	"	35 00
"	22 x 27	made to order only					40 00
"	25 x 30	" "					44 00

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

THE WATERBURY DRY-PLATE HOLDER.



(PATENTED).

The Waterbury Holder may be adjusted to various sizes of plates more quickly and easily 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.

The Waterbury Holder requires no latches to secure the plate firmly in place. The mechanism is so simple that it cannot get out of order except by destroying the holder.

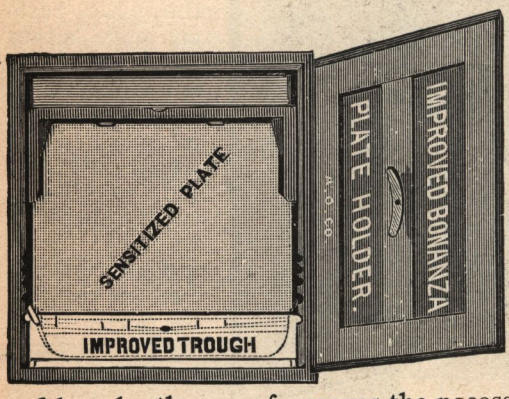
The Waterbury Holder adjustments work with entire freedom and yet without vibration or side-play.

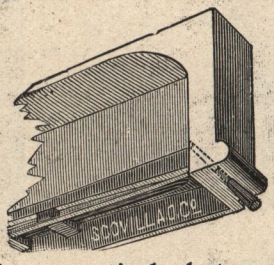
REVISED PRICE LIST OF WATERBURY STUDIO HOLDERS.

8 x 10	$10 00	17 x 20	$28 00
For Cincinnati Camera	15 00	18 x 22	30 00
10 x 12	16 00	20 x 24	35 00
11 x 14	21 00	25 x 30	44 00
14 x 17	24 00		

THE IMPROVED PATENT BONANZA PLATE HOLDER.

THE PHOTOGRAPHER'S SILVER SAVER.





Any practical photographer can, by one glance at the illustration, see where the great merit of this holder lies, how perfectly silver solution is saved, and how by the use of grooves the necessity of kits is avoided.

The Plate Holder has now a world-wide reputation, and, because of its great merits, infringements have been attempted.

In ordering holders, parties should send their old holder as sample, if possible, to avoid mistakes; otherwise the exact dimensions of old holder should be given.

PRICE LIST OF BONANZA HOLDERS.

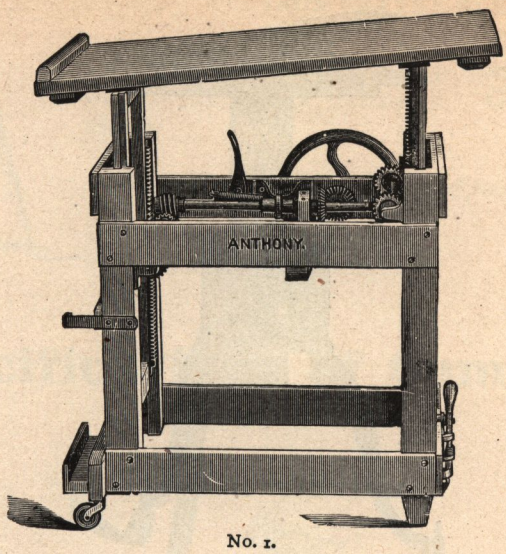
8 x 10	$10 50	17 x 20	$27 50
10 x 12	16 00	18 x 22	31 00
11 x 14	21 50	20 x 24	35 75
14 x 17	24 00	25 x 30	44 00

Bonanza Holder for Cincinnati Camera with Rabbet Kits 12 75

" " " Multiplying " 12 75

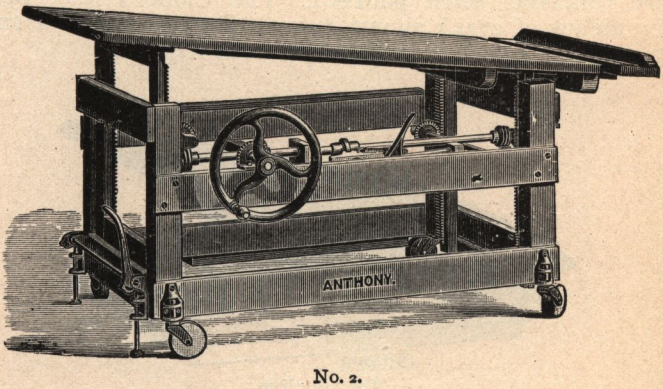
Troughs for Bonanza Holders 1 50

THE "NEW YORK" CAMERA STAND.



No. 1.

Is at once the most useful and compact camera stand on the market. The mechanism is of the simplest kind, and is directly under the control of the operator. No bands, no weights, no set screws. The wheel, being at the side, is always handy. By the simple moving of a lever the gearing is so changed that the same wheel that elevates the stand also tilts the top. By the foot the rear caster may be thrown out of action, leaving the stand absolutely rigid and immovable.



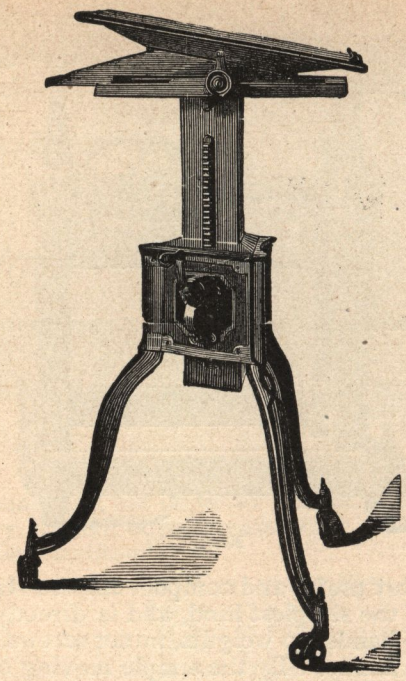
No. 2.

The No. 2 "New York" Stand is designed to carry larger cameras, and has an extension top. The general mechanism is the same as in the No. 1, and the top may be lowered to a height of only 21 in. It is the ideal studio stand.

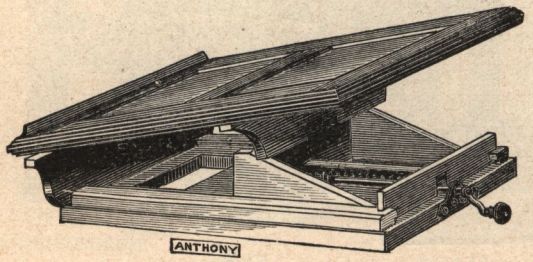
The No. 3 is for still larger cameras, and of the same design as the No. 2.

No. 1, for cameras up to 11 x 14.....$18 50
No. 2, " " 20 x 24..... 26 50
No. 3, for larger sizes..... 38 00

THE KNICKERBOCKER STAND.



A rigid and compact stand. The top is attached to the upright with screws, and the legs are firmly fastened with screws to the centre piece (which are removed when packed). The Camera may be raised or lowered by means of crank shown in cut. By the use of a snake screw operating on a cog-wheel, very little power is required.

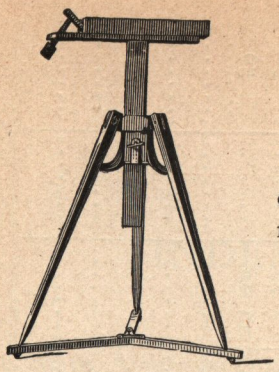


The Acme Top.

The tops of Nos. 0 and 1 are inclined by means of a cam operated by a snake screw, while that of No. 4 is after Stoddard's pattern. We annex a cut of No. 4 entire. Nos. 2 and 3 have the Acme top.

WITH KNICKERBOCKER TOP.	WITH ACME TOP.
No. 0, for 4 x 4 Camera.....$7 50	No. 2, for 8 x 10 Camera....$10 00
" 1, " 4 x 4 " 9 25	" 3, " 8 x 10 " 12 50

No. 4, for 8 x 10 Camera, with Stoddard Top.....$16 00



IRON CENTRE STAND.

This is a favorite cheap stand. Furnished in cherry—iron work enameled. Good value for the money.

Price for 1x4, 1x2, 4x4, and 8x10.....$3 50

Specifications of Cameras.

PORTRAIT CAMERAS.

		Focal Length.	Size of Front Board.
8 x 10	Portrait.....	19 inch	9 x 9
11 x 14	"	40 "	9 x 9
14 x 17	"	51 "	9 x 9
17 x 20	"	56 "	10 x 10
18 x 22	"	66 "	10 x 10
20 x 24	"	68 "	10 x 10

EXTRA PARTS OF APPARATUS.

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

Dimensions. Inches.	Wood Slides for Novel Holders.	Extra Fine Ground Glass for Cameras.	Wood Slides for "Benster" Holders.	Front Boards for Climax Portrait Cameras.	Rubber Bellows for Climax Portrait Cameras.	Press Board Slides for Dry Plate Holders.	Rubber Slides for Dry Plate Holders.	Front Boards.	Straight Rubber Bellows for Dry Plate Outfits.	Cone Rubber Bellows for Reversible Back Cameras.	Stereo Partitions.	Tripod Screws.
4¼ x 5½	.....	$0 10	.....	$0 50	.....	.....	.....	.....	.....	.....	.....	.....
4¼ x 6½	.....	10	.....	.....	.....	$0 15	$0 25	$0 20	$1 35	$2 75	.....	$0 25
8 x 10	.....	26	$0 70	80	$6 00	20	50	45	2 50	4 50	$0 30	25
10 x 12	$0 75	40	1 25	80	8 00	35	1 00	.....	.....	5 50	.....	50
11 x 14	1 15	50	1 60	80	10 00	45	1 50	.....	.....	7 75	.....	50
14 x 17	1 35	1 00	2 00	1 00	12 00	75	2 25	.....	.....	11 00	.....	50
17 x 20	1 60	1 35	2 50	1 25	15 00	.....	.....	.....	.....	.....	.....	.....
18 x 22	2 00	1 65	2 75	1 25	18 00	.....	.....	.....	.....	.....	.....	.....
20 x 24	.....	.....	3 25	1 25	24 00	.....	.....	.....	.....	.....	.....	.....
22 x 27	.....	.....	3 50	1 25	32 00	.....	.....	.....	.....	.....	.....	.....
25 x 30	.....	.....	4 00	1 25	40 00	.....	.....	.....	.....	.....	.....	.....

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CATALOGUE C.

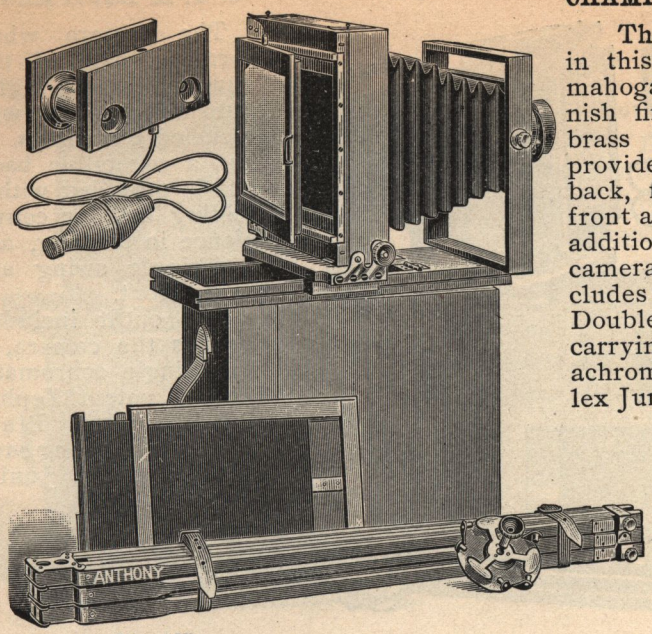
Hand and View Cameras, Enlarging, Lantern Slide and Micrographic Cameras, Plate Holders and Carrying Cases

1904

THE ANTHONY & SCOVILL COMPANY
122-124 FIFTH AVENUE, NEW YORK

Catalogue A.—Lenses and Shutters.
" B.—Studio Cameras, Stands and Attachments.
" C.—Hand and View Cameras, Enlarging, Lantern Slide and Micrographic Cameras, Plate Holders and Carrying Cases.
" D.—Professional Studio Sundries.
" E.—General Photo Sundries and Photographic Publications.
" F.—Chemicals, Films, Papers and Plates.
" G.—Photo-Engravers' Supplies.

CHAMPION EQUIPMENT.

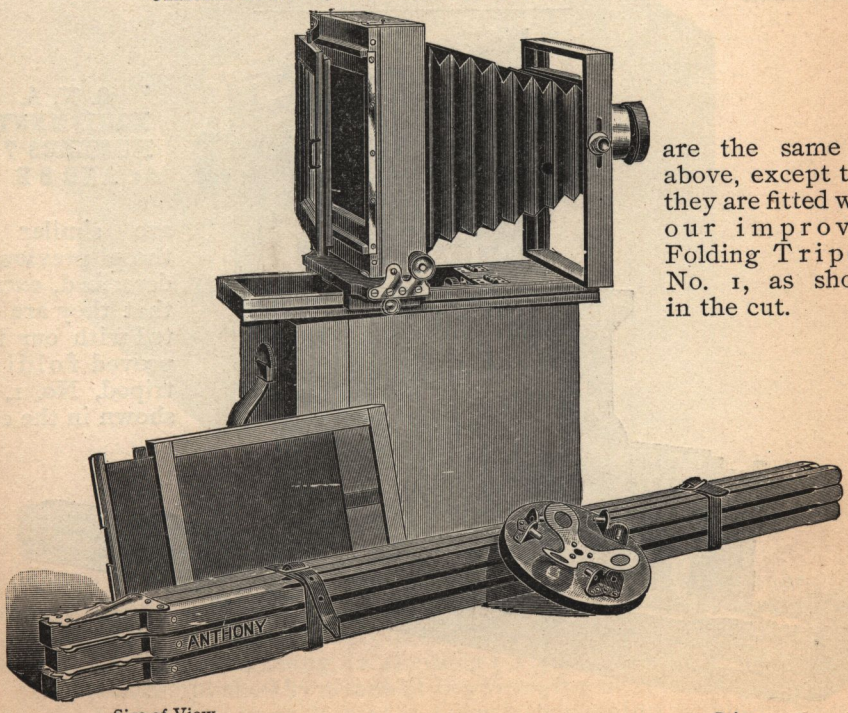


The camera included in this equipment is of mahogany, with fine varnish finish and laquered brass trimmings, and is provided with reversible back, folding bed, rising front and swing back. In addition to the above camera, the equipment includes one patent Zephyr Double Dry Plate Holder, carrying case, fine single achromatic lens and Triplex Junior tripod.

Size of View. Inches.	Price.
5 x 7	$11 00
5 x 8	12 00

A pair of stereo lenses, mounted on extra front board, with shutter and partition for any size of above camera $7 50

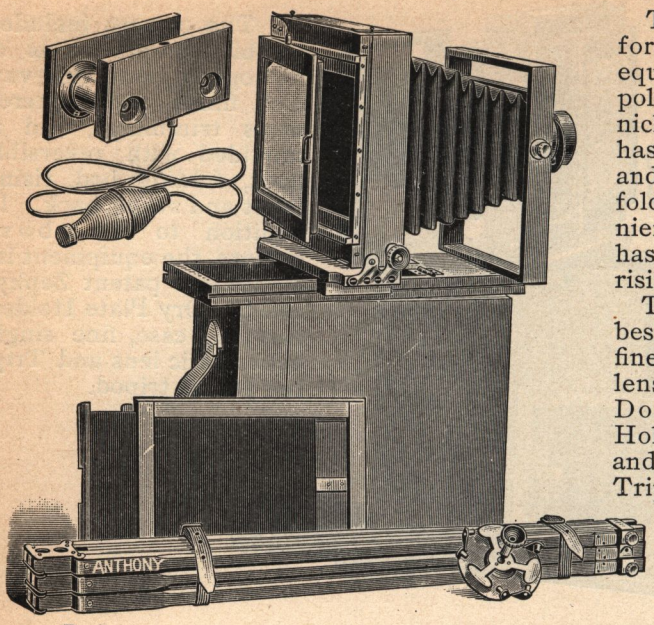
CHAMPION EQUIPMENTS, 6½ x 8½ AND 8 x 10,



are the same as above, except that they are fitted with our improved Folding Tripod, No. 1, as shown in the cut.

Size of View. Inches.	Price.
6½ x 8½	$15 00
8 x 10	20 00

O. N. A. EQUIPMENT.



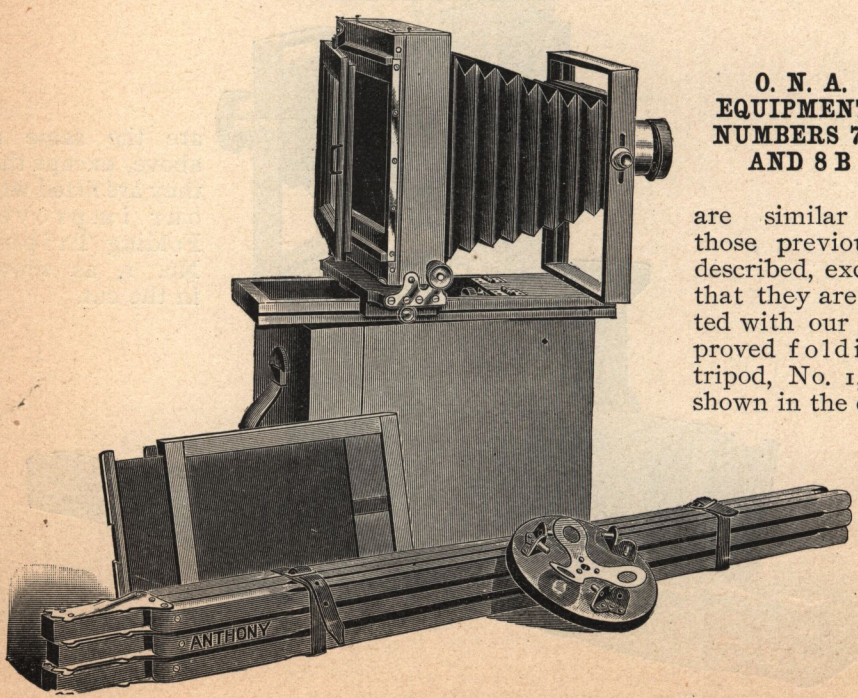
The camera which forms a part of this equipment is of highly polished mahogany with nickeled trimmings. It has a reversible back, and is provided with a folding bed for convenience in packing, and has single swing and rising front.

The outfit includes, besides the camera, a fine single achromatic lens, a patent Zephyr Double Dry Plate Holder, a carrying case, and a Triplex Junior Tripod.

Equipment Number.	Size of View Inches.	Price.
1¾ B	5 x 7	$14 00
*2 B	5 x 8	15 00

A pair of stereo lenses, mounted on extra front board, with shutter and partition for any size of above camera, $7.50.

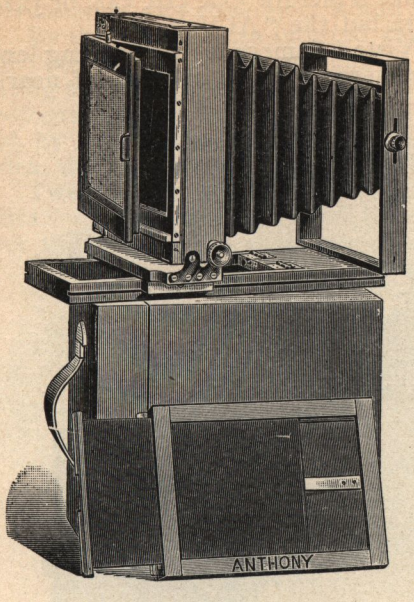
* This equipment is also fitted with a shutter for instantaneous work, which is included in the price named.



O. N. A. EQUIPMENTS NUMBERS 7 B AND 8 B

are similar to those previously described, except that they are fitted with our improved folding tripod, No. 1, as shown in the cut.

Equipment Number.	Size of View. Inches,	Price.
7 B	6½ x 8½	$20 00
8 B	8 x 10	26 00

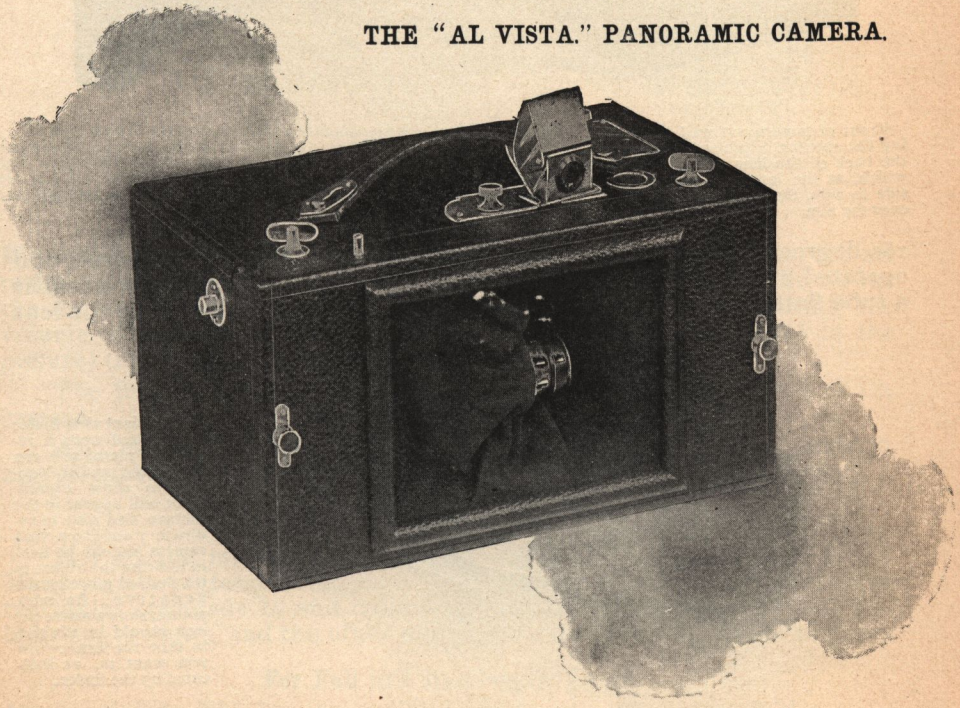


THE N. P. A. CAMERA.

This is a reversible back, mahogany camera, with patent swing-back, rising front, folding bed, and extra front. It is highly polished, and is fitted with nickeled trimmings. This is the same camera as used in our O. N. A. Equipment. Prices, including camera, as above, one Patent Double Zephyr Dry Plate Holder and Carrying Case.

Size.	Price.
5 x 7	$ 9 00
5 x 8	10 00
6½ x 8½	13 50
8 x 10	17 00

THE "AL VISTA." PANORAMIC CAMERA.

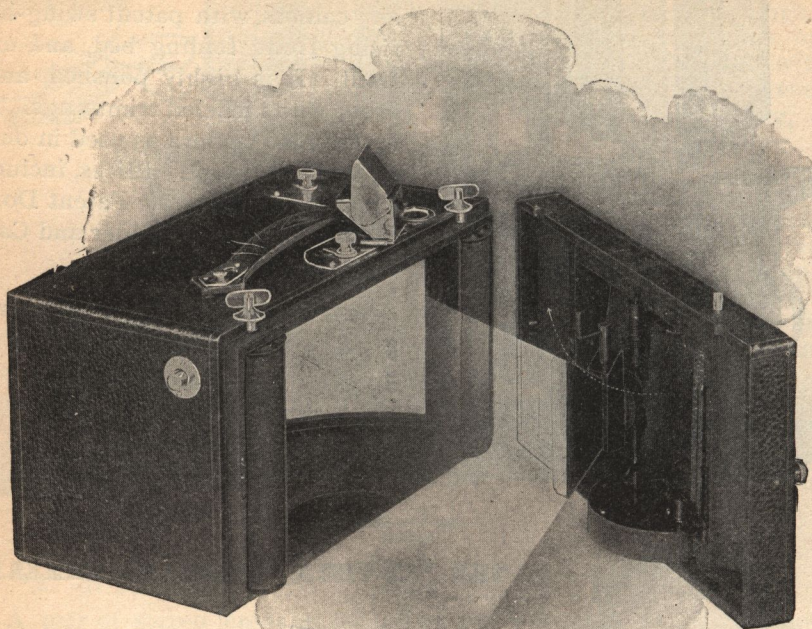


The "Al Vista" is the only camera that will not only take the ordinary size of pictures, but if you want to get more view on the sides, (not mere blank sky and out-of-focus foreground) you can make the photograph (the original one being 5 x 4) either 5 x 6, 5 x 8, 5 x 10 or 5 x 12.

This is accomplished by means of the swinging or revolving lens; you press the button, and in an instant it records everything within its sweep of nearly 180 degrees,—*half a circle*. Or, if you prefer, you can stop the

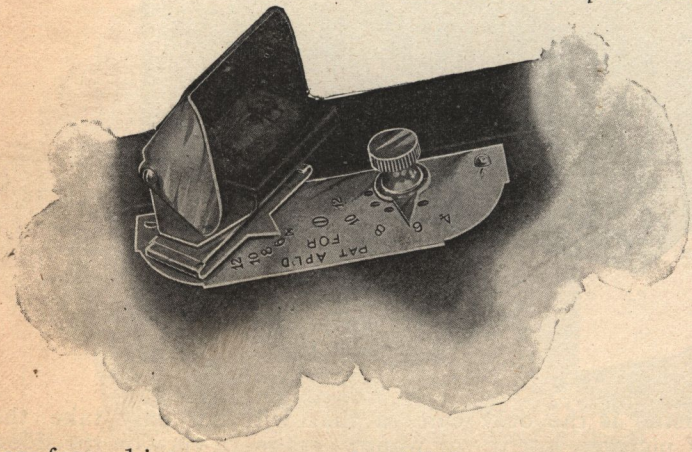
lens in its half circle flight, so as to make a picture 5x4, 5x6, 5x8, or 5x10. This can be accomplished by no camera but the "Al Vista."

The principal feature of the "Al Vista" Camera is its revolving lens, which sweeps from left to right, and covers an angle of view of nearly



Front of camera removed, showing flat opening in tube attached to the back of the lens, and through which, as the lens revolves from side to side, the exposure sweeps over the film.

180 degrees,—half a circle. This lens is placed on a vertical shaft, and operated by a clockwork mechanism. Attached to the rear of the lens is a tube flattened at its inward end so that the picture rays from the lens



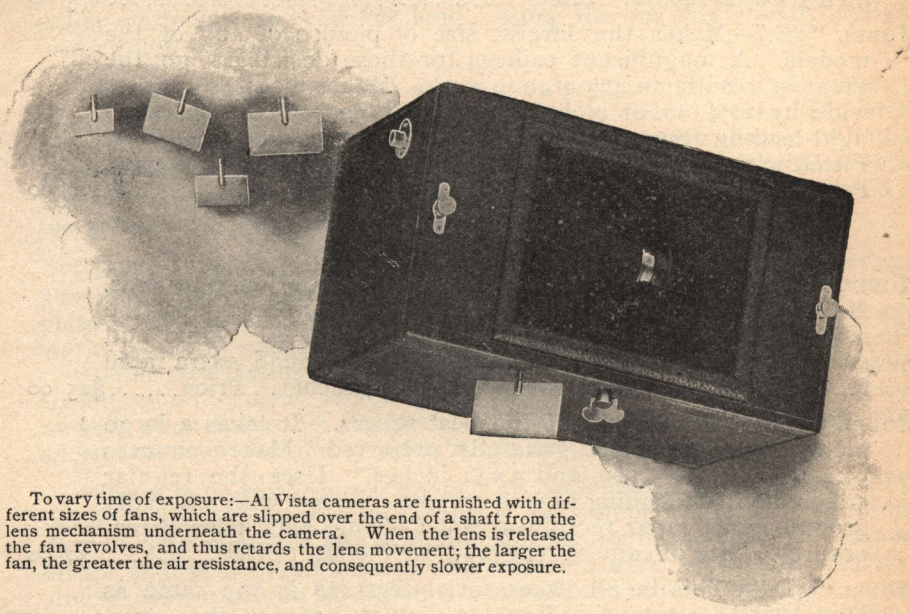
A brilliant view finder is mounted upon a revolving plate, and can be rotated in any direction to show exactly what will appear in the picture and also to indicate position that camera should be held in to bring the object in the desired place on the negative. An index pointer shows where the lens should be stopped to take the exact view you want to, as indicated by the finder.

are formed into a narrow strip of light. As the lens revolves, this "ray of exposure" passes across the film (held in a semi-circle form in the camera box) and exposes but a narrow strip at a time, the same as the famous focal plane shutters which take the most rapidly moving objects, and yet do not show the slightest sign of movement in the picture. With

ordinary cameras, when the exposure is over the entire plate at once, the movement of any one object would spoil the picture.

By the means of an indexed revolving view finder, the photographer can determine just the amount of view wanted in the picture, and by setting the exposure knob in accordance with the view finder index, the photographer can determine just the amount of view wanted in the picture, and by setting the exposure knob in accordance with the view finder index, the lens will revolve only sufficiently to include the desired picture.

Twenty-four different speeds of exposure are possible with the "Al Vista." This is accomplished by means of different sized fans, slipped over the end of the shaft projecting from the bottom of the camera.



To vary time of exposure:—Al Vista cameras are furnished with different sizes of fans, which are slipped over the end of a shaft from the lens mechanism underneath the camera. When the lens is released the fan revolves, and thus retards the lens movement; the larger the fan, the greater the air resistance, and consequently slower exposure.

When the lens is released to make an exposure, the fan revolves, the air resistance retarding the movement of the lens; the larger the fan the slower the exposure. The lens is also provided with stops for altering the volume of exposure, (as well as for securing more or less detail in the picture) thus ensuring good pictures in various degrees of light.

The lens is released by simply pressing a button on the top of the camera.

All "Al Vistas" take the "Ansco" Daylight loading film cartridge, also all other standard makes of film, regular size.

"AL VISTA" CAMERAS; For Film Only:

Not all the models are made to take five different lengths of views. Many people prefer to take nothing but full panoramic views, therefore two styles are made to suit individual tastes: one style making full, and half-length views, and the other making five different lengths of pictures.

For Full and Half-length Views:

MODEL "3B."—This is a size which finds favor with all who desire a small size camera, and yet one capable of accomplishing all that is required. Time and instantaneous exposures. Makes pictures 3½ inches wide, and either 4½ or 9 inches long, and uses the regular 3½-inch daylight-loading film cartridges. Extra rapid, specially ground, rectilinear lens. Size of camera, 9 x 5 x 6 inches. Price.....$20 00

MODEL "4G."—The ideal for the beginner and the tourists' favorite. Better than a magazine camera, and no load to carry. *Takes snapshots only.* Makes pictures 4 inches wide, and 5 inches, or 10 inches long Uses regular 4-inch daylight-loading film cartridges. Rapid rectilinear lens. Size of camera, 9½ x 6 x 5 inches. Price $15 00

MODEL "7D."—For those who desire to take larger pictures. Uses 7-inch daylight-loading film cartridges, and makes pictures 7 inches wide, and 7½, or 15 inches long. Time and snapshot exposures. Fine rapid rectilinear lens. Size of camera, 9 x 8¼ x 13¼ inches. Price 75 00

MODEL "7E."—Makes the largest size of picture of any of the models. A magnificent camera for those desiring to get the greatest results in panoramic work. Makes pictures 7 inches wide by 10½, or 21 inches long, using the regular 7-inch daylight-loading film cartridges. Time and snapshot exposures. Fitted with special lens. Size of camera, 17¾ x 9 x 10½ inches. Price 100 00

For Making 5 Different Lengths:

MODEL "4B."—A camera that does the work of five ordinary cameras. Makes pictures 4 x 4, 4 x 6, 4 x 8, 4 x 10, 4 x 12 inches. Uses the regular 4-inch daylight-loading film cartridges. Time and snapshot exposures. Fitted with specially ground, extra rapid rectilinear lens. Size of camera, 11 x 5 x 7 inches. Price $25 00

MODEL "5B."—This is one of the best sellers. It takes a large picture, and is the size generally preferred. Makes pictures 5 x 4, 5 x 6, 5 x 8, 5 x 10, and 5 x 12 inches. Uses the regular 5-inch daylight-loading film cartridges. Fitted with specially ground, extra rapid rectilinear lens. Time and snapshot exposures. Size of camera, 11¼ x 6¼ x 7 inches. Price 30 00

MODEL "5D."—This in all its essential features is the same as Model "5B" except that it makes pictures 5x6, 5x8, 5x10, 5x12, and 5x16, or four inches longer than made by "5B." Uses the regular 5-inch daylight-loading film cartridge. Fitted with specially ground, extra rapid rectilinear lens Time and snapshot exposures. Size of camera, 13¾ x 6¼ x 8½ inches. Price 50 00

COMBINATION PANORAMIC FILM, AND GLASS-PLATE CAMERAS.

Think of having a camera with which you can take not only different lengths of pictures, but, one which you can remove the front having the panoramic lens and arrangement, and replace it with another front having another lens, bellows, and shutter, fitted with Iris diaphragm, working by bulb attachment in from $\frac{1}{100}$ of a second to 2 seconds; so that you can use glass plates in not only the same *manner as you would use them in an ordinary camera, but to greater advantage!* That is what has been produced!

For anyone who wants to combine into one instrument every possible camera which they would ever have need of, an "Al Vista" panoramic film and glass-plate combination *is that instrument!*

Model "5F."—Furnished with two fronts, one adapted for making panoramic views, being fitted with a fine rapid rectilinear lens. Has the patent long and short negative attachment for making pictures either 5 x 6, or 5 x 12 inches on the same roll of film without going into the dark room. Uses the regular 5-inch daylight-loading film cartridge.

If your roll of film has been used up, and you want to use glass plates, simply remove the panoramic front by unscrewing the thumb-screw at each end. The extra front is just as easily put on—nothing to get out of order; nothing that a child couldn't understand. This extra front is fitted with a bellows arrangement; has slide focusing attachment and focusing scale. It has the best rapid rectilinear lens, of 8-inch focus, and a shutter, fitted with bulb, time and instantaneous arrangement, which works from $\frac{1}{100}$ of a second to 2 seconds; reversible view finder; three plate holders (for 4x5 plates), two tripod sockets, so that it can be used both ways of the plate. Size of camera, 11¼x6¼x8. Price, $60.00.

Model "7F."—This model makes panoramic views 7 inches wide by either 7½ inches, or 15 inches long; using the regular 7-inch daylight-loading film cartridges.

The attachable front for making 5 x 7 glass plate negatives has an *extra long bellows*, particularly adapted for telephoto work. The extra lens is of the best rapid rectilinear pattern, of 8½-inch focus, and on account of the extreme length of bellows, either the front or back combination of the lens can be used *alone*, and much larger objects produced on the plates than with ordinary cameras.

The focusing is done by a very accurate rack-and-pinion arrangement. The lens board is adjustable up and down, so as to get the view on the plate exactly where you want it. The shutter, fitted with Iris diaphragm, works by a bulb attachment in from $\frac{1}{100}$ of a second to 2 seconds. The reversible view-finder is hooded to make the image more clear and distinct. Ground glass focusing screen works on a spring so that it need not be removed when inserting the plate holder. Compartment in back holds speed fans and view-finder when not in use.

There is no work that a Model "7F" cannot do, from photographing landscapes, interiors, groups, portraits, and telephoto work, to panoramic views. The owner of one of these cameras would have all that he could desire, as it is a combination of every camera ever made, and will serve almost every purpose for which a camera could be devised. Each camera furnished with 3 double plate-holders for 5 x 7 glass plates. Size of camera, 13⅜ x 8⅜ x 9 inches. Price, $100.00.

Model "5C."—This model allows you to take panoramic pictures on film, and to also use glass plates, but it is not furnished with two fronts, although it is provided with two separate lenses; one extra rapid rectilinear lens for use when making panoramic views on film, and an extra raidp achromatic lens for use with glass plates. Makes five different lengths of pictures, 5x4, 5x6, 5x8, 5x10, and 5x12. When it is desired to use glass plates, the lens tube is swung to, and held at, the center of its swing; the flattened hood at the back is detached, and the achromatic lens inserted in the tube in place of the rectilinear. (The rectilinear lens is used when making portraits on glass plates.)

Regular 5-inch daylight-loading film cartridge is used. Three 4x5 plate-holders are furnished. Size of camera, 11¼x6¼x8 inches. Price, $40.00.

LENS:

This all-important part of the camera must be perfect. We have, therefore, instituted a series of tests by our own expert inspectors, and *every lens used by us must stand these tests*, thus insuring uniform quality in each and every camera. The fine high grade photographic work made by "Al Vista" camera is positive testimony of this.

FINISH OF "AL VISTA" CAMERAS.

The "Al Vista" is, in all its parts, a splendid piece of mechanism. Nothing but the very best enters into its construction. The finely finished parts of the interior are protected by solid, substantial frames, which present an exterior of elegance and durability. The method of their construction gives them a maximum of strength with a minimum of weight. The finest black Morocco leather is used for the exposed parts of the camera, to which the finest of nickel trimmings lend a pleasing finish and insure wearing quality and durability.

Carrying Cases:

For Models 3-B 4-B 4-G 5-B and 5-C—No. 1 plush lined, detachable shoulder stap, handle, and lock, $3.50. No. 2, solid leather, plain, with shoulder strap	$2 50
For Models 5-D and 7-D, (No. 1 Case only furnished)	4 00
" " 5-F, " " " "	4 50
" " 7-E and 7-F " " " "	5 00

Printing Frames: *

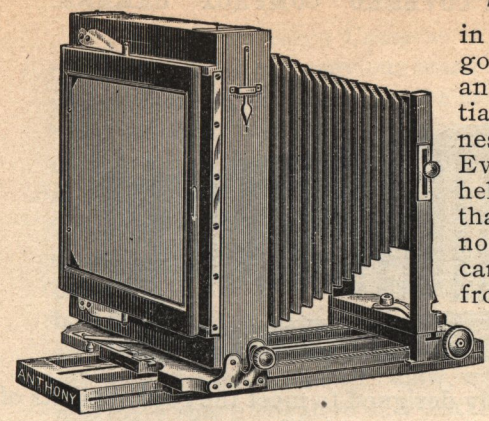
Improved Film-holding printing frames for Model 3-B	$0 65
" " " " " 4-G 4-B	75
" " " " " 5-B 5-C 5-F	85
" " " " " 5-D	1 25
" " " " " 7-D 7-F	1 50
" " " " " 7-E	2 00

Developing Trays: *

Developing trays, for negatives by models—3-B 4-G 4-B 5-B 5-C 5-F	$0 50
" " " " 5-D	65
" " " " 7-D 7-F	75
" " " " 7-E	1 00

* Not carried regularly in stock but will be supplied on order.

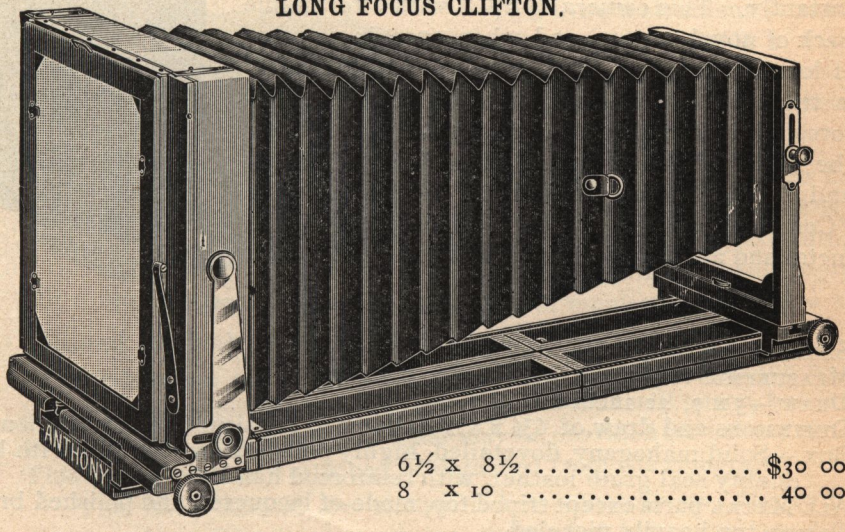
THE CLIFTON CAMERA.



This is an entirely new departure in view cameras, and embodies every good feature, without detracting in any way from the three great essentials of a perfect camera—compactness, rigidity, and ease of working. Every movement is provided for, and held in place by the best device that experience furnishes. There is no demand to be made upon this camera that it will not meet. It has front and back focus, the latter making possible the use of extreme wide-angle lenses; double-swing back, double-swing front, reversible back, sliding and rising front, spring-actuated ground glass, the front board of very large size, so overcoming the difficulty so often experienced in attaching special lenses. It is handsome in appearance, constructed of the very best material, and fitted with Zephyr Holder and a substantial Canvas Carrying Case.

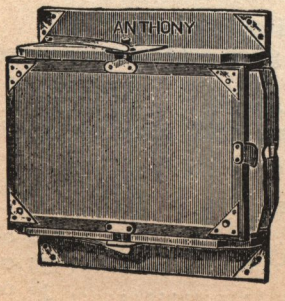
5 x 7	$17 00	8 x 10	$24 00
5 x 8	17 00	11 x 14	42 00
6½ x 8½	19 00	14 x 17	52 00

LONG FOCUS CLIFTON.



6½ x 8½	$30 00
8 x 10	40 00

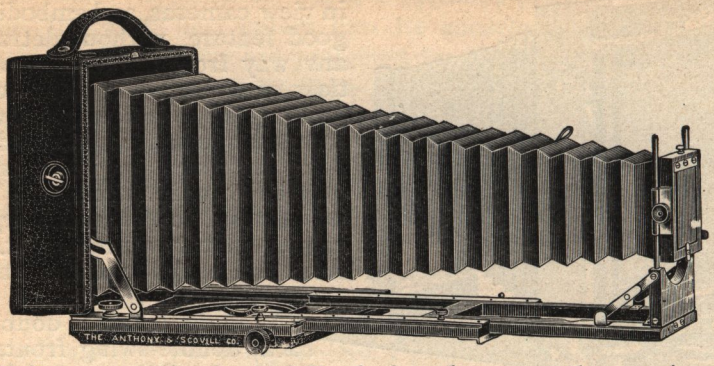
REVERSIBLE BACKS FOR VIEW CAMERAS.



The Reversible Back Adapter can be applied to the Compact, Normandie and Clifton Cameras. Unless otherwise ordered, will be fitted for Zephyr Holders.

Size.		Price.
For 4 x 5	Cameras	$4 00
" 4¼ x 6½	"	4 50
" 5 x 7	"	4 50
" 5 x 8	"	5 00
" 6½ x 8½	"	5 00
" 8 x 10	"	6 00
" 10 x 12	"	8 00
" 11 x 14	"	9 00

THE "A AND S" LEATHER COVERED "COMPACT" CAMERA.



This instrument was specially designed to meet the requirements of the advanced photographer, and for use with lenses of more than one focus. The "Compact" Camera as its name indicates is exceedingly compact; this advantage is secured through a new and improved design, rather than by any sacrifice of weight or strength. The "Compact" Camera is fitted with a swing back of the latest design and is easily operated by set screws outside the camera, and can be adjusted to any angle instantly. This camera is fitted with a reversible back of novel pattern and when once in position is locked securely. The bed of the "Compact" is triple extension, made double and metal reinforced, thus securing absolute rigidity when using the camera fully extended, and is fitted with rack and pinion for fine focusing. The bed of the "Compact" carries its own tripod top made of metal and accurately fitted into a revolving bed.

SPECIFICATIONS:

SIZES.—5 x 7, 6½ x 8½, and 8 x 10.
MEASUREMENTS.—5 x 7, 8¼ x 8¼ x 3 inches.
DRAW.—5 x 7, 22 inches.
DIMENSIONS and draw of 6½ x 8½ and 8 x 10 furnished on application.
BOX.—Solid mahogany, dovetailed, highly polished and covered with best quality seal grain leather, with reinforced handle.
ALL METAL parts except tripod top, made of lacquered and polished brass.
TRIPOD top heavily nickeled.
BELLOWS.—Red Russia Leather, lined with highest quality lining and neatly embossed.
FRONT BOARD, rising and falling with secure locking device.
REVERSIBLE BACK with spring actuated ground glass screen and hinged panel for focusing.
BACK, Central Swing, operated from outside of camera.
BED, triple extension, metal reinforced, accurate and sensitive spirit level set flush with the top of box.

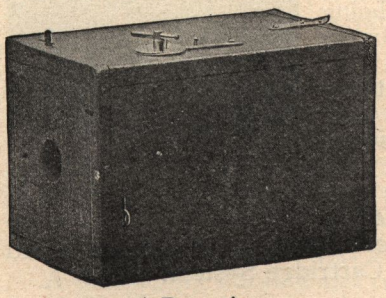
WITHOUT LENS OR SHUTTER.

Price, 5 x 7	$28 00
" 6½ x 8½	34 00
" 8 x 10	38 00

THE ANSCO CAMERAS.

The line of Ansco Cameras is an improvement on the very popular film cameras of the previous season. The cameras represent the highest achievement in providing for the needs of that numerous and enthusiastic body of tourist and other photographers who desire to make good pictures with as little effort and as slight understanding of complicated processes as is possible. These cameras are marvels of compactness and portability. The roll of film is carried between the lens and plane of focus, thus shortening the length considerably. The choice of lens and shutter has been left to the purchaser and enables those who desire, to use the very best instruments obtainable. The film rolls are of the cartridge variety and may be loaded in daylight. A portrait attachment may be added to the several cameras noted below, which fitting over the regular lens allows making a sharp negative at a distance of only 3½ feet from the subject. The method of making the exposures is not changed in any way, but the image is greatly increased in size by its use. The Ansco Cameras are adapted to the use of films only.

No. 1 Baby Ansco.



No. 1 Baby Ansco.

This little instrument is not a toy, but accurate and reliable in every respect, and has been designed with special reference to the wants of the school boys and girls.

The No. 1 Baby Ansco Camera makes pictures 2¼x2¼ inches, using the six exposure daylight-loading film. It is fitted with a surprisingly fine quality of meniscus lens and a shutter adjusted for both snap shot and time exposures.

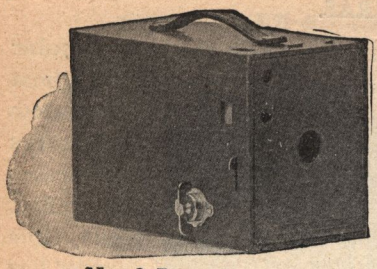
Finders are not attached to the No. 1 Baby Ansco, as the user soon learns to accurately determine just what the lens will cover, but for those who prefer it a Baby Ansco Finder may be provided for twenty-five cents. This finder is readily attached or detached from the camera.

The Baby Anscos are unequalled in construction, the entire box being made of Kiln-dried wood, (no pasteboard being used) and covered with imitation leather very handsome and durable. An instruction book free with every instrument.

PRICE:

No. 1 Baby Ansco for pictures 2¼x2¼ inches.....	$1 00
Daylight Loading Film Cartridge—6 exposures 2¼x2¼....	15
Baby Finder, Detachable.....	25
No. 1 Baby Carrying Case holding Camera and Finder.....	50
No. 1 Baby Developing and Printing Outfit.....	75

The No. 2 Baby Ansco.



No. 2 Baby Ansco.

This camera is an enlargement of the No. 1 Baby Ansco making pictures 2¼ x 3¼ inches. Each camera is fitted with a meniscus lens guaranteed to produce good pictures, and a shutter adjusted for both snap shots and time exposures. The No. 2 Baby Ansco has a capacity of six exposures without reloading, and is fitted with two finders for horizontal and vertical pictures.

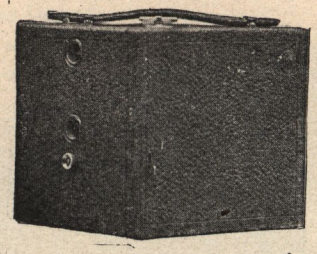
Like the No. 1 Baby Ansco, the No. 2 is constructed entirely of Kiln-dried wood (no pasteboard being used) and covered with fine imitation leather.

PRICE:

No. 2 Baby Ansco for 2¼x3¼ pictures	$2 00
Daylight Loading Films, 6 exposure, 2¼x3¼	20
No. 2 Baby Carrying Case	75
Developing and Printing Outfit	1 50

THE No. 1 ANSCO.

FOR PICTURES 3½ x 3½.

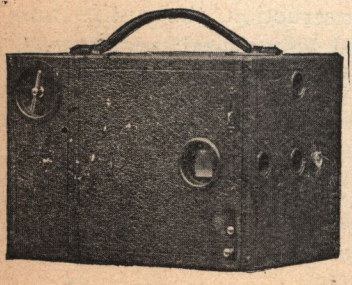


This camera though moderate in cost is a thoroughly practical instrument, and is fitted with the most modern improvements. Its outside dimensions are only 4⅜ x 4⅜ x 5½, and being in box form of the fixed focus style, is always ready for making an exposure. It is fitted with a fine single achromatic lens, having three diaphragms and shutter, so arranged as to give three grades of speed, as well as time exposures, and provided with socket for tripod screw. Each camera is complete in itself, and has no loose parts to become broken or lost. A brilliant finder of the latest pattern is fitted to each, and all are handsomely finished, leather covered and nickel trimmed. The No. 1 Ansco is adapted to the use of the Daylight Loading Film Cartridge System.

Price, No. 1 Ansco, not loaded	$5 00
Daylight Loading Film, 6 exposure cartridge	30
Daylight Loading Film, 12 exposure cartridge	60
Black Sole Leather Carrying Case	1 25

THE ANSCO No. 2.

FOR RECTANGULAR PICTURES 3¼ x 4¼ INCHES.



The Ansco No. 2 is of the box type of camera, exceedingly compact and covered with the best grade seal grain leather, all metal fittings being nickel plated. This camera is fitted with a high grade single achromatic lens, and with an improved form of finger release automatic shutter for both time and instantaneous exposures. This shutter is fitted with a set of three diaphragms. The Ansco No. 2 is fitted with two of the latest improved brilliant finders and two tripod sockets, enabling the operator to made pictures either way of the film. Ansco No. 2 contains patented film chamber, found in no

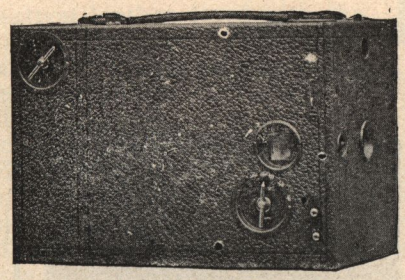
other make of camera. In the use of this film chamber it is almost impossible to experience light struck film, and owing to its working construction the film is always kept in perfect tension.

The dimensions of the Ansco No. 2 are as follows: 5x4½x7.

Price	$6 50	6 Exposure Film	35
Carrying Case	1 50	12 Exposure Film	70

THE No. 3 ANSCO.

FOR 4 X 5 RECTANGULAR PICTURES.



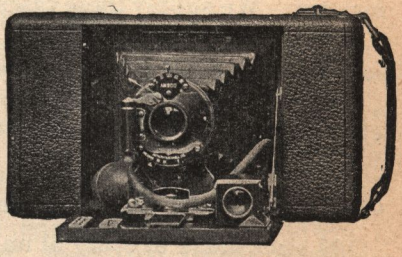
The Ansco No. 3 is a camera of the most compact box type, covered with the best seal grain leather, all metal fittings being nickel plated. This camera is fitted with a high grade single achromatic lens, and with an improved form of finger release automatic shutter for both time and instantaneous exposures. This shutter is fitted with a set of three diaphragms. The Ansco No. 3 is fitted with two of the latest improved brilliant finders and two tripod sockets, enabling the operator to make pictures either way of the film. The Ansco No. 3 contains patented film chamber, found in no other make of camera. In the use of this film chamber it is almost impossible to experience light struck film and owing to its working construction the film is always kept in perfect tension. The Ansco No. 3 is fitted with a very simple and accurate focusing device, enabling the operator to obtain a large image on the film without distortion.

Price	$7 50
Carrying Case	1 50
6 Exposure Film	45
12 Exposure Film	90

THE NO. 4 FOLDING POCKET ANSCO.

FOR PICTURES 3¼ X 4¼, ADAPTED TO 6 OR 12 EXPOSURE FILM.

A thoroughly durable and reliable instrument. It is made throughout of the finest selected mahogany, and the metal parts, with the exception of the shutter, are nickeled, and the camera is covered with the finest black Morocco leather. The bellows are of maroon leather, lined with the best opaque linen procurable, making this very important part of the camera much more durable than if lined with paper, as are many instruments of this general type.



The lenses used in this camera are of the Double Rapid Rectilinear type, each lens being carefully selected, and tested by an expert before being sent with the camera. They are fitted with the popular Winner Automatic Shutter, with Iris diaphragm. The shutter is always set and the operator has the option of time, bulb, and several degrees of instantaneous exposures.

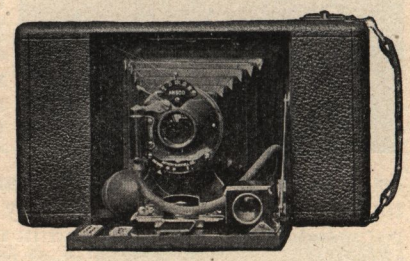
This camera is also fitted with a brilliant reversible finder and tripod sockets for both horizontal and vertical pictures, and an accurately adjusted focus scale, for the Rapid Rectilinear Lens.

It is adapted to the Daylight Cartridge Film System, and fitted with focusing back for the Ansco Vidil-Film, and may be loaded and unloaded in broad daylight.

Price Folding Ansco No. 4, 3¼x4¼, for 2, 6 or 12 exposure film, camera only	$10 00
Rapid Rectilinear lens, with shutter	3 00
Dallmeyer Stigmat, Series II., F. 6, with automatic shutter	56 00
Goerz Anastigmat, Series III., No. O, with automatic shutter	47 50
Voigtlaender Collinear Series III., No. 2, " " "	38 00

THE No. 5 FOLDING POCKET ANSCO.

FOR PICTURES 4X5, ADAPTED TO 6 OR 12 EXPOSURE FILM.



Is similar to the No. 4 except in size of picture. The shutter may be operated by bulb or finger release. The No. 5 Folding Pocket Ansco is made of the finest selected mahogany, highly polished, with nickel trimmings, laquered brass shutter, maroon (linen lined) bellows, making a beautiful and thoroughly reliable instrument. It is covered with fine Morocco leather, with handle for carrying, and is as rich and beautiful when closed as when open for use. The No. 5 Ansco is also fitted with focusing back for Ansco Vidil-Film.

Price of Folding Ansco No. 5, 4x5, for 2, 6, or 12 exposure film camera only	$12 50
Rapid Rectilinear lens, with shutter	4 50
Dallmeyer Stigmat, Series II., F. 6, with automatic shutter	57 25
Goerz Anastigmat, Series III., No. 1, with automatic shutter	55 00
Voigtlaender Collinear Lens, Series III., No. 3, " "	48 00
4x5 Leather Case	1 50

ANTHONY'S CARRYING CASES.

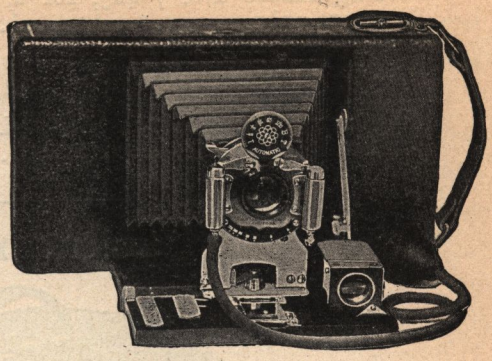
These canvas carrying cases are extremely neat and tasteful in appearance, being made of the best material and in the most thorough manner. We supply these cases with all our Clifton and Compact cameras without extra charge.

Size. Inches.	Price.	Size. Inches.	Price.
4 x 5	$1 60	8 x 10	$3 00
4¼ x 6½	1 75	10 x 12	4 50
5 x 7	1 75	11 x 14	5 00
5 x 8	1 75	14 x 17	7 00
6½ x 8½	2 00		

Odd sizes made to order at an advance of 50 per cent. on above prices.

THE No. 6 FOLDING POCKET ANSCO.

FOR PICTURES 3¼x4¼ ADAPTED TO 6 AND 12 EXPOSURE FILM.



A folding pocket camera de luxe, complete and perfect in every respect. It is made throughout of the finest selected mahogany, the metal parts, with the exception of the shutter, are nickeled, and the camera is covered with the finest black Morocco leather. The bellows are double extension, made of maroon leather, lined with the best opaque linen procurable, making this very important part of the camera much more durable than if lined with paper, as are many instruments of this general type.

The lenses used in this camera are of the double rapid rectilinear type, each lens being carefully selected, and tested by an expert before being sent with the camera. They are fitted with the new and improved Wollensak Automatic Shutter having an Iris diaphragm. The shutter is always set and the operator has the option of time, bulb, and several degrees of instantaneous exposures.

Securely attached to the camera bed is a rack and pinion for fine focusing.

The No. 6 Folding Pocket Ansco is also provided with a focusing back, permitting the use of the Ansco Vidil-Film as well as the ordinary form of cartridge film. This camera is also fitted with a brilliant reversible finder and tripod sockets for both horizontal and vertical pictures, and an accurately adjusted focusing scale, for the Rapid Rectilinear lens.

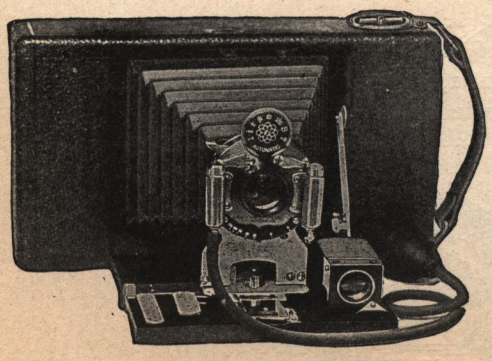
It is adapted to the Daylight Cartridge Film System and may be loaded and unloaded in broad daylight.

PRICE :

Folding Ansco No. 6, for 3¼x4¼, 2, 6 or 12 exposure film, camera only	$14 00
Rapid R. R. Lens, with shutter	4 50
Dallmeyer Stigmat, Series II., F. 6, with shutter	56 00
Georz Anastigmat, Series III., No. O, and shutter	47 50
Voigtlaender Collinear, Series III., No. 2, with Automatic Shutter	38 00

THE No. 7 FOLDING POCKET ANSCO.

FOR PICTURES 4 x 5, ADAPTED TO 6 OR 12 EXPOSURE FILM.

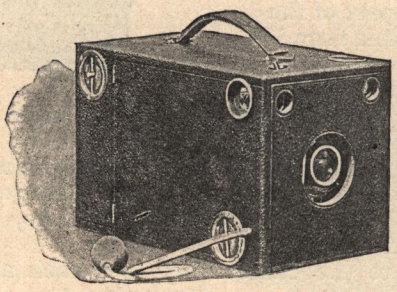


Is similar to the No. 6 except in size of picture. The shutter may be operated by bulb or finger release. The No. 7 Folding Pocket Ansco is made of the finest selected mahogany, highly polished, with nickel trimmings, laquered brass shutter, maroon (linen lined) double extension bellows, making a beautiful and thoroughly reliable instrument. It is covered with fine Morocco leather, with handle for carrying, and is absolutely the highest type of folding pocket camera in existence.

PRICE:

Folding Ansco No. 7 4x5, for 2, 6 or 12 exposure film, camera only	$16 00
Lens with shutter	6 50
Dallmeyer Stigmat, Series II., F. 6, with shutter	57 25
Goerz Anastigmat, Series III., No. 1, with shutter	55 00
Voigtlaender Collinear, Series III., No. 3, with automatic Shutter	48 00

THE No. 8 ANSCO.



The No. 8 Ansco is without doubt the finest box camera in the market.

Extremely light and compact, and at the same time serviceable in every respect, it fills an important place in the outfit of the tourist photographer.

It is fitted with the patent Ansco Film chamber, taking both six and twelve exposure rolls.

The lens is an extra quality Rapid Rectilinear of ample focal length with a speed of F.8, fitted to the Ansco Automatic Shutter, adapted for use with both bulb and finger release. Has two tripod sockets and brilliant finders for both vertical and horizontal exposures. The focusing scale is carefully adjusted, and is so constructed that disarrangement is impossible.

All working parts of the camera are enclosed, thus protecting them from injury even if roughly handled.

PRICE.

No. 8 Ansco for pictures 4x5 inches	$15 00
Ansco Daylight Loading Film Cartridges—12 exposures	90
" " " " " — 6 "	45
Black Sole Leather Carrying Case	2 25
Dallmeyer Stigmat, Series II., F. 6, with Shutter	57 25
Goerz Anastigmat, Series, III., No. 1, with Shutter	55 00
Voigtlaender Collinear Lens, Series III., No. 3, with automatic Shutter	48 00

SOLOGRAPH CAMERAS.

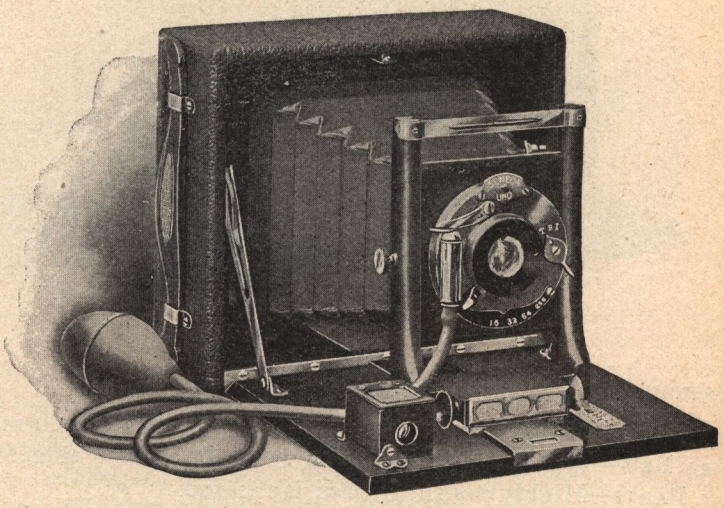
The Sologragh Camera has always been known as one of the most perfect and reliable cameras on the market and we feel that our 1904 line wil appeal to the discriminating amateur from every standpoint.

We have done away with the old forms and styles with their needless adjustments, and offer only light, strong, neat and compact instruments.

Many new and exclusive features have been added making the line strictly up to date in every respect.

SOLOGRAPH No. 1.

MADE IN TWO SIZES, 4 x 5 AND 5 x 7.



DIMENSIONS { In 4x5 size, 6x5¼x2⅜ inches.
In 5x7 size, 8x6½x2½ inches.

CAMERA BOX—Mahogany, dovetailed and covered with seal grain leather.
CAMERA BED—Mohogany polished, fitted with piano hinge.
METAL PARTS—Highly polished brass, laquered.
BELLOWS—Red Russia leather, lined with gossamer cloth.

SPECIAL FEATURES.

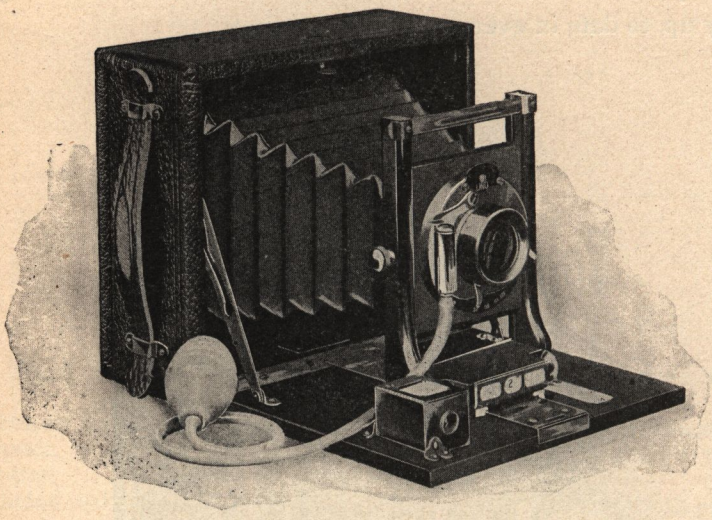
FRONT—Rising and Falling.
CLAMP—Automatic, press-button.
FINDER—Reversible, brass bound.
SHUTTER—Uno.
LENS—Single Achromatic.

Camera. Carrying Case. Double Plate Holder.

Prices complete { 4 x 5 ..... $ 9 00
5 x 7 ..... 14 00

SOLOGRAPH No. 2.

MADE IN TWO SIZES, 4 x 5 AND 5 x 7.



DIMENSIONS { In 4x5 size, 6x5¼x2⅜ inches.
In 5x7 size, 8x6½x2½ inches.

CAMERA BOX—Mahogany, dovetailed and covered with seal grain leather
CAMERA BED—Mahogany, polished and fitted with piano hinge.
METAL PARTS—Highly polished brass, lacquered.
BELLOWS—Red Russia leather, lined with gossamer cloth.

SPECIAL FEATURES.

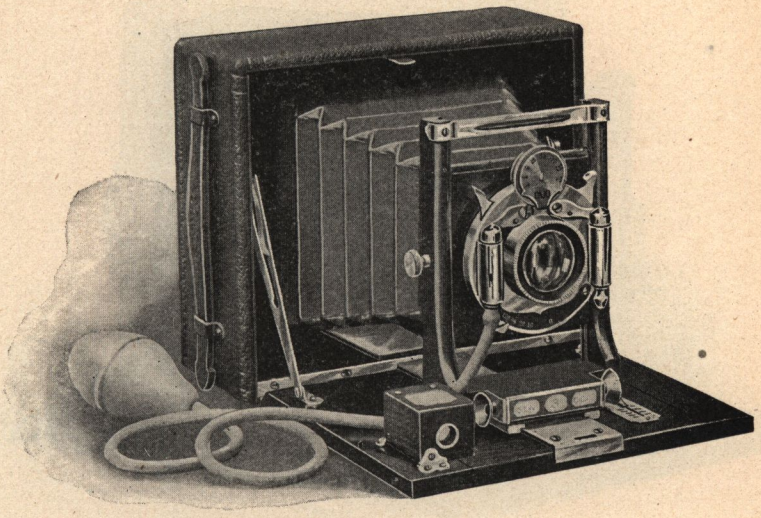
FRONT—Rising and falling.
CLAMP—Automatic press button.
FINDER—Reversible, brass bound.
SHUTTER—Uno.
LENS—Rapid Rectilinear.

Camera. Carrying Case. Double Plate Holder.

Prices complete { 4 x 5 ..... $11 00
5 x 7 ..... 15 00

SOLOGRAPH No. 3.

MADE IN TWO SIZES, 4x5 AND 5x7.



DIMENSIONS { In 4x5 size, 6x5¼x2⅜ inches.
In 5x7 size, 8x6½x2½ inches.

CAMERA BOX—Mahogany, dovetailed and covered with seal grain leather.
CAMERA BED—Mahogany polished, fitted with piano hinge.
METAL PARTS—Highly polished brass, lacquered.
BELLOWS—Red Russia leather, lined with gossamer cloth.

SPECIAL FEATURES.

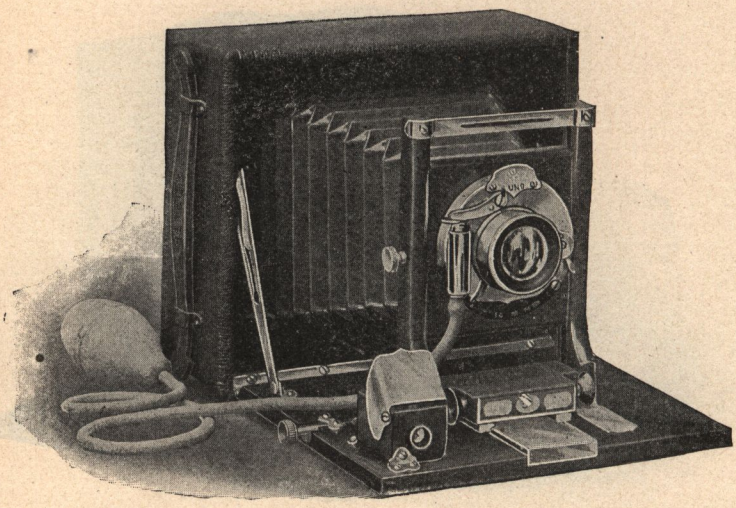
FRONT—Rising and falling.
CLAMP—Automatic press button.
FINDER—Reversible, brass bound.
SHUTTER—Duo.
LENS—Rapid Rectilinear.

Camera. Carrying Case. Double Plate Holder.

Prices complete { 4 x 5 ..... $14 00
5 x 7 ..... 18 50

SOLOGRAPH No. 4.

MADE IN TWO SIZES, 4x5 AND 5x7.



DIMENSIONS { In 4x5 size, 6x5¼x2⅜ inches.
In 5x7 size, 8x6½x2½ inches.

CAMERA BOX—Mahogany, dovetailed and covered with seal grain leather.
CAMERA BED—Mahogany polished, fitted with piano hinge.
METAL PARTS—Highly polished brass, lacquered.
BELLOWS—Red Russia leather, lined with gossamer cloth.

SPECIAL FEATURES.

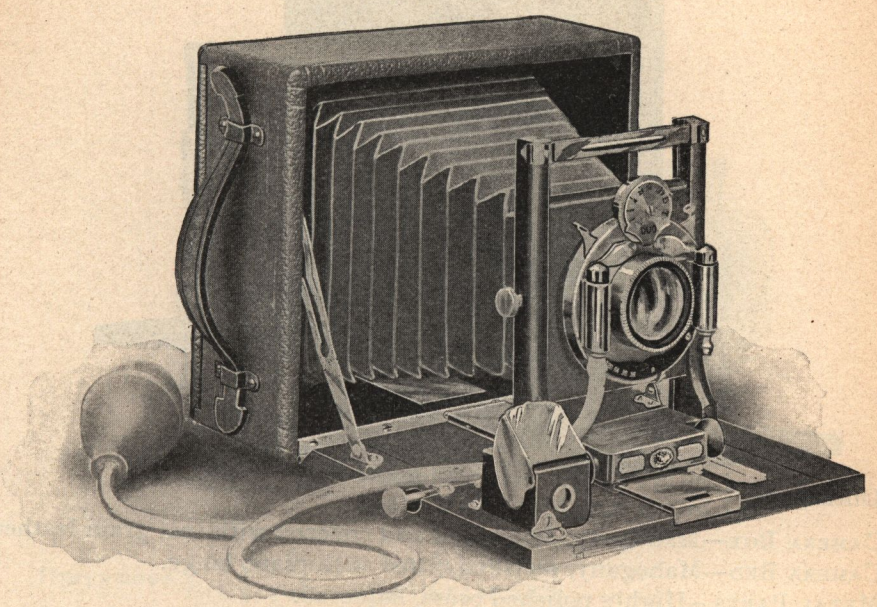
FRONT—Rising and falling.
CLAMP—Automatic press button.
RACK AND PINION—For focusing.
FINDER—Reversible brass bound, hooded.
SHUTTER—Uno.
LENS—Rapid Rectilinear.

Camera Carrying Case. Double Plate Holder.

Prices complete { 4 x 5 ..... $14 00
5 x 7 ..... 19 00

SOLOGRAPH No. 5.

MADE IN TWO SIZES, 4 x 5 AND 5 x 7.



DIMENSIONS { In 4x5 size, 6x5¼x2⅜ inches.
In 5x7 size, 8x6½x2½ inches.

CAMERA BOX—Mahogany, dovetailed and covered with seal grain leather.
CAMERA BED—Mahogany polished, fitted with piano hinge.
METAL PARTS—Highly polished brass, laquered.
BELLOWS—Red Russia leather, lined with gossamer cloth.

SPECIAL FEATURES.

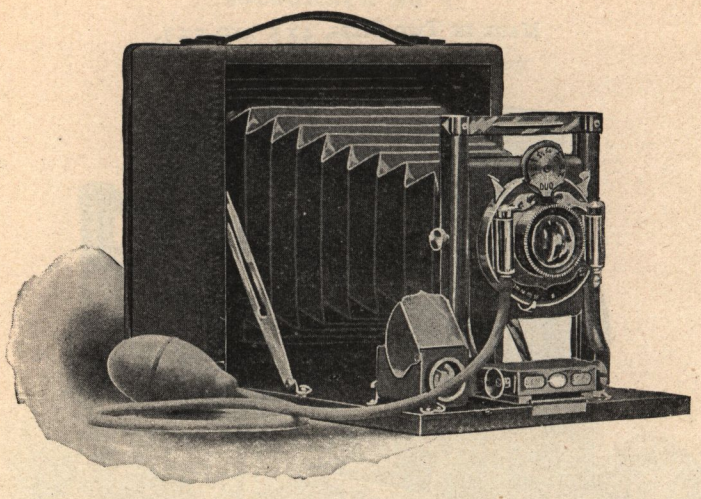
FRONT—Rising and falling.
CLAMP—Automatic press button.
RACK AND PINION—For focusing.
FINDER—Reversible, brass bound and hooded.
SHUTTER—Duo.
LENS—Rapid Rectilinear.

Camera. Carrying Case. Double Plate Holder.

Prices complete { 4 x 5 ..... $16 00
5 x 7 ..... 21 00

SOLOGRAPH No. 6.

MADE IN TWO SIZES, 4 x 5 AND 5 x 7.



DIMENSIONS { In 4x5 size, 6 x6 x3 inches.
In 5x7 size, 8½x8½x3 inches.

CAMERA BOX—Mahogany, dovetailed and covered with seal grain leather.
CAMERA BED—Mahogany, polished, fitted with piano hinge.
METAL PARTS—Highly polished brass, laquered.
BELLOWS—Red Russia leather, lined with gossamer cloth.

SPECIAL FEATURES.

FRONT—Rising and falling.
CLAMP—Automatic press button.
BACK—Reversible, with single release.
FINDER—Brilliant, reversible, brass bound and hooded.
SHUTTER—Duo or uno.
LENS—Rapid Rectilinear.

Camera. Carrying Case. Double Plate Holder.

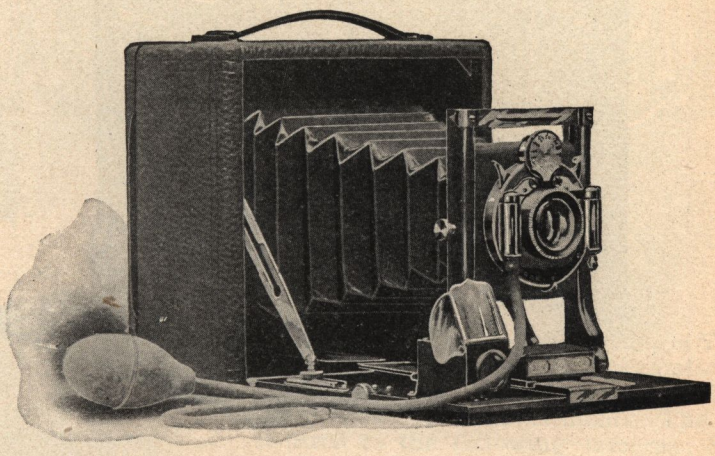
PRICES COMPLETE:

		4 x 5	5 x 7
Style A.	Sologragh No. 6, fitted with Uno Shutter, Rapid Rectilinear Lens.....	$13 50	$18 50
Style B.	Sologragh No. 6, fitted with Duo Shutter, Rapid Rectilinear Lens.....	16 50	22 00

A Rack and Pinion for focusing will be attached to either of the above styles for $1.50 extra.

SOLOGRAPH No. 7.

MADE IN TWO SIZES, 4 x 5 AND 5 x 7.



DIMENSIONS { In 4x5 size, 6 x6 x3 inches.
In 5x7 size, 8½x8½x3 inches.

CAMERA BOX—Mahogany, dovetailed and covered with seal grain leather.
CAMERA BED—Mahogany polished, fitted with piano hinge.
METAL PARTS—Highly polished brass, lacquered.
BELLOWS—Red Russia leather, lined with gossamer cloth.

SPECIAL FEATURES.

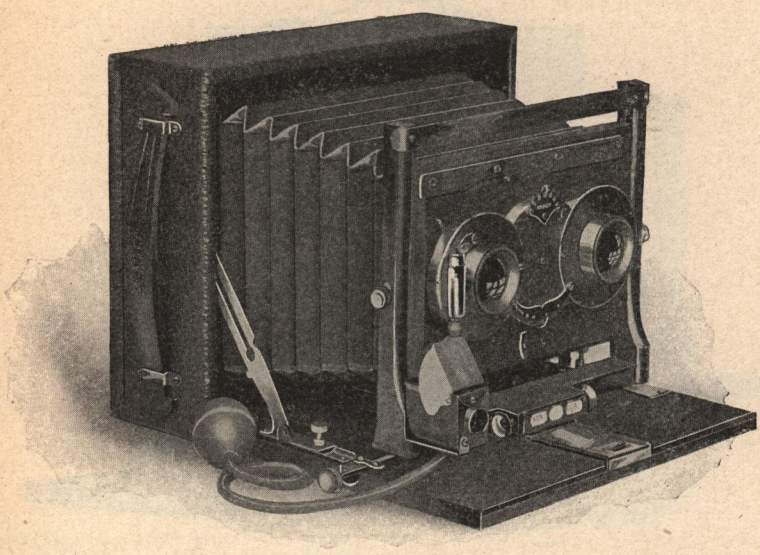
FRONT—Rising and falling.
CLAMP—Automatic press button.
RACK AND PINION—For focusing.
SWING—Either back or bed.
BACK—Reversible, with single release.
FINDER—Brilliant, reversible, brass bound and hooded
SHUTTER—Duo.
LENS—Symmetrical.

Camera. Carrying Case. Double Plate Holder.

Prices complete { 4 x 5 ..... $22 00
5 x 7 ..... 29 00

STEREO SOLOGRAPH.

MADE IN ONE SIZE.—5 x 7.



This branch of photography has always been very popular. It is certainly interesting and is rapidly gaining in favor among the amateurs. We offer here a Stereo Camera that is greatly improved over the old styles. It is constructed practically the same as our Sologràph No. 5, and is equipped with the Uno Stereo Shutter and Matched Rapid Rectiliner Lens. The Sologràph Stereo possesses a Swing for either back or bed.

DIMENSIONS—8 x 6½ x 2½ inches.
CAMERA BOX—Mahogany, dovetailed and covered with seal grain leather.
CAMERA BED—Mahogany polished, fitted with piano hinge.
METAL PARTS—Highly polished brass, lacquered.
BELLOWS—Red Russia leather, lined with gossamer cloth.

SPECIAL FEATURES.

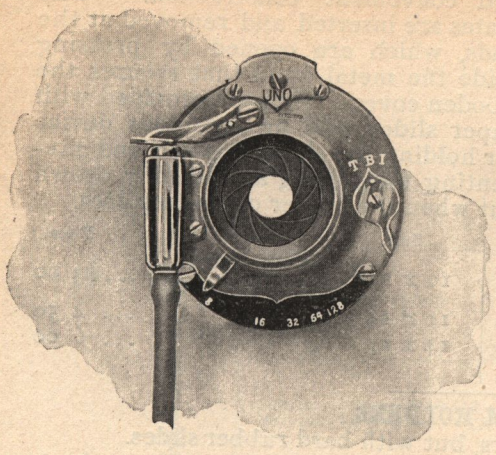
FRONT—Rising and falling.
CLAMP—Automatic press button.
SWING—For either back or bed.
RACK AND PINION—For focusing.
FINDER—Reversible, brass bound, hooded and brilliant.
SHUTTER—Uno, Stereo.
LENS—Symmetrical Matched.

Camera. Carrying Case. Plate Holder.

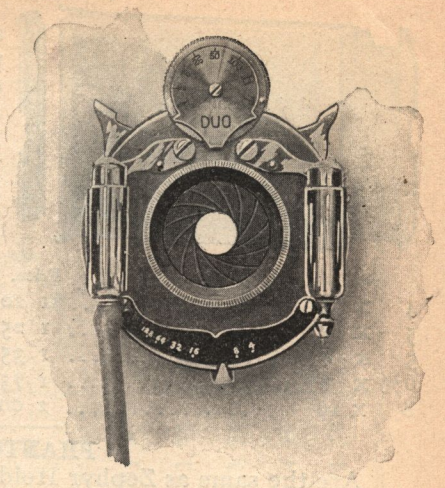
Price complete.....$35 00

Regular 5x7 Rapid Rectilinear Lens and Duo Shutter, extra, $14.00.

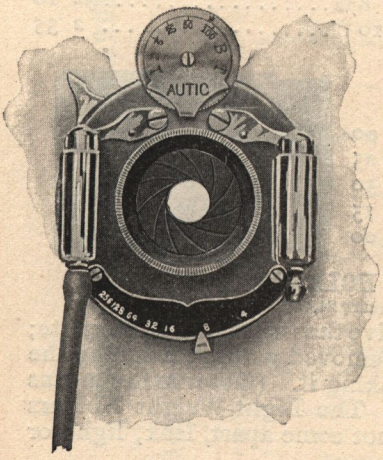
SOLOGRAPH SHUTTERS.



SOLOGRAPH UNO.



SOLOGRAPH DUO.



SOLOGRAPH AUTIC.

The UNO is an Automatic Single Valve Shutter. This possesses a pneumatic and finger release, Iris diaphragm, time bulb, and instantaneous adjustments. The Uno is fitted to the following cameras: Solograph No. 1, No. 2, No. 4 and No. 6.

The Duo is our double Valve Shutter. This has in addition to the features described on the Uno the adjustment at the top for regulating the time of an exposure. An instantaneous speed may be attained from one to one-hundredth part of a second. The Duo is fitted to the following cameras: Solograph No. 3, No. 5, No. 6 and No. 7.

All our Shutters are marked in the Standard U. S. System.

LENSES FITTED TO SOLOGRAPH CAMERAS.

We appreciate the fact that a camera, no matter how well made, no matter how highly polisned or perfect the joints, is incomplete without a lens that will cut a clear, sharp picture. Special attention must be given to this branch of the work, or the camera will be useless. Our lenses are manufactured especially for us by one of the largest manufacturers of photographic lenses in the world, and we have contracted with them to furnish for the Sologragh Cameras only such material as they will positively guarantee. We are sure that our Lenses will give utmost satisfaction.

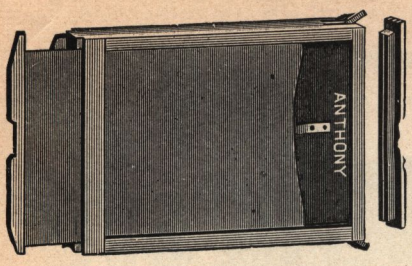
SOLOGRAPH SINGLE ACROMATIC LENS—Is fitted to: Solograph No. 1.

SOLOGRAPH RAPID RECTILINEAR LENS—Is fitted to: Solograph No. 2, No. 3, No. 4, No. 5, No. 6.

SOLOGRAPH SYMMETRICAL LENS—Is fitted to: Solograph No. 7, Solograph Stereo.

Plate Holders	4 x 5	$0 80
	5 x 7	1 00

ANTHONY'S PATENT ZEPHYR DOUBLE DRY PLATE HOLDERS.



These holders are of extremely light and convenient construction. The plates are inserted and removed at the ends, which are opened by pressing aside the metal band that secures the wooden cover. They are provided with paper slides, and an ingenious device for holding the slides in place and preventing their being accidentally drawn out when the holder contains plates.

Size.	Price.
4 x 5	$1 20
5 x 7	1 25
5 x 8	1 35
6½ x 8½	1 75
8 x 10	2 00

Size.		Price.
10 x 12	With Hard Rubber Slides	$3 00
11 x 14	" "	4 50
14 x 17	" "	6 00

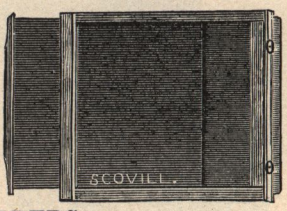
PHANTOM HOLDERS.

Are the same as Zephyr Holders, but with hard rubber slides.

Size.	Price.
4¼ x 6½	$1 60
5 x 7	1 65
5 x 8	1 85
6½ x 8½	$2 10
8 x 10	2 35

SOLOGRAPH HOLDERS.

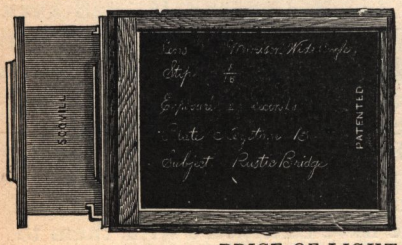
4 x 5	$1 00
5 x 7	1 25
5 x 8	1 50
6½ x 8½	1 75
8 x 10	2 00

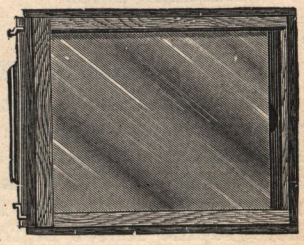


LIGHT-WEIGHT DOUBLE HOLDERS.

Patented November 15, 1887, and January 24, 1888.

The Light-Weight Holders yield a negative the full width of the plate; the plate may be placed in these holders or removed without touching the sensitive surface, and without danger of breaking it. (Observe the means shown in illustration for locking the slides.) The Light-Weight Holders are made with solid frame so that they will not come apart, leak, light, or warp.





PRICE OF LIGHT-WEIGHT DOUBLE HOLDER.

3¼ x 4¼	$1 10
4 x 5	1 25
4¼ x 5½	1 25
4¼ x 6½	1 00
5 x 7	1 30
5 x 8	1 40
6½ x 8½	1 70
8 x 10	$2 00
10 x 12	3 50
11 x 14	4 50
14 x 17	6 50
17 x 20	9 00
18 x 22	12 00
20 x 24	15 00

Light-Weight Holders can be fitted to any American Optical Co. Camera or Scovill Outfit. Up to 11x14 size these Plate Holders can be had with registering or rubber slides at customer's option. Above 11x14 with wood or rubber slides only.

EXTRA PARTS OF APPARATUS.

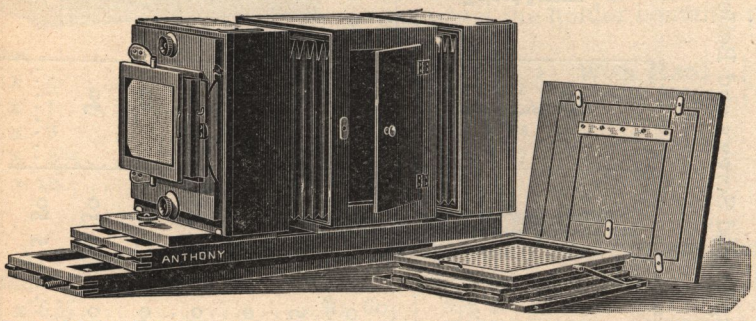
Including Slides for Holders, Front Boards, Ground Glass, Tripod Screws and Bellows.

Dimensions. Inches.	Extra Fine Ground Glass for Cameras.	Press Board Slides for Dry Plate Holders.	Rubber Slides for Dry Plate Holders.	Front Boards	Straight Rubber Bellows for Dry Plate Outfits.	Cone Rubber Bellows for Reversible Back Cameras.	Stereo Partitions.	Tripod Screws.
3¼ x 4¼.....	$0 08	$0 10	$0 15	.....	$1 00	.....	.....	$0 25
4 x 5	08	10	20	$0 20	1 25	.....	.....	25
5 x 7	14	15	30	20	1 50	$3 25	.....	25
5 x 8	14	15	30	20	1 50	3 25	$0 20	25
6½ x 8½.....	18	20	40	45	2 00	3 75	30	25
8 x 10	26	20	50	45	2 50	4 50	30	25
10 x 12	40	35	1 00	.....	.....	5 50	.....	50

5 x 7 CLIMAX ENLARGING, REDUCING, AND COPYING CAMERA.

WITH REVERSIBLE BACK AND LANTERN SLIDE HOLDER.

This camera, like the regular Climax Enlarging, Reducing, and Copying Camera, has an extra long bed, a centre-board for lens, and lateral extension of bellows at each end, which makes it a perfect instrument for enlarging, reducing, or copying; it is also provided with a 5 x 7 reversible back, with ground glass and plate holder for upright or horizontal pictures, and an adjustable back, with ground glass and plate holder, for lantern slide plates. The back is fitted with sliding motion in all direc-

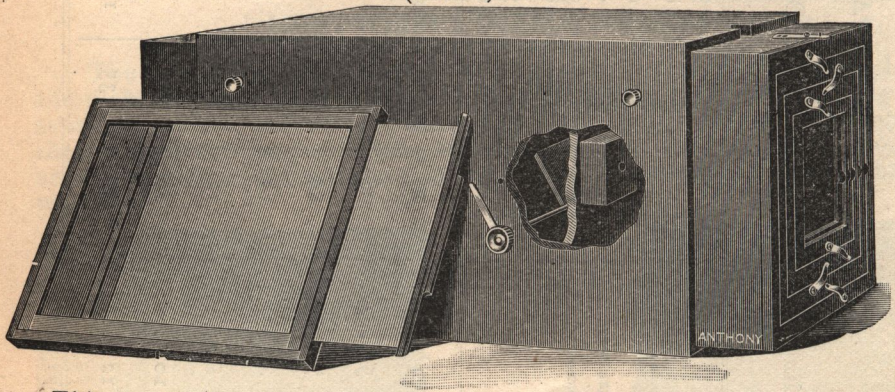


tions, by which the negative or transparency may be squared up without cutting the plate. This camera is provided with one set of kits and is the best camera, for its purpose, made.

Price.....$22 00
Extra Holders..... 1 50

THE BRIGHTON ENLARGING AND COPYING CAMERA FOR PLATES OR PAPER.

(8 x 10)



This camera is equipped for Enlarging or Copying either on plates or paper. It consists of two boxes, within an outer case, both of which may be drawn out to meet the desired focus. It is fitted with Lens and Shutter (the latter operating from the outside of camera), Ground Glass and Plate Holder, in which either plates or paper may be used. The front of camera has a nest of kits from 4 x 5 up to 8 x 10, but in enlarging no larger negative than 4 x 5 should be used. To copy, draw out the front box, which leaves a copying camera, and focus with the rear box.

This camera has been constructed to meet the demand for a low priced article suited to work described, being especially useful for amateurs who desire to make enlargements from their negatives. But one size and style is made.

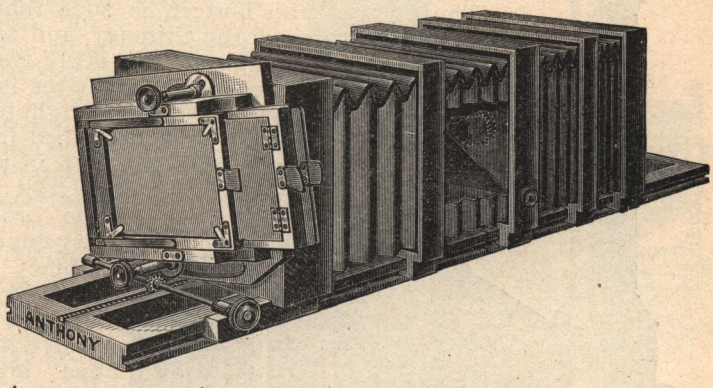
Price complete.....$12 00

ANTHONY'S LANTERN SLIDE CAMERA.

For copying 4 x 5 negatives, or smaller, on 3¼ x 4 or 3¼ x 4¼ plates, for use in the lantern. This camera, made with special reference to transparency work, is provided with an oscillating frame carriage for ground glass and plate holder, to facilitate the adjustment of picture on plate.

It is well made, light, and simple of construction, and unsurpassed for excellence and convenience.

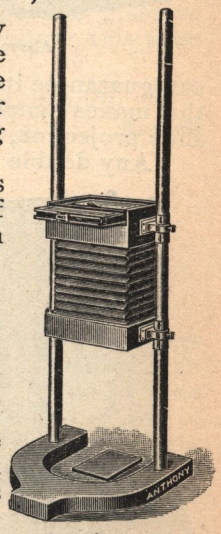
An important feature in this camera, found in no other, is, that the centre-board with lens can be used in the end of the camera, converting it



at once into an extra long copying camera. This will be found very advantageous in enlarging small pictures by one operation.

Price.....$12 00
Special Holders, extra, 3¼ x 4 or 3¼ x 4¼..... 1 50

ANTHONY'S MICROGRAPHIC CAMERA,



As shown in the cut, is a finely finished and beautifully adjusted camera for microscopic work, adapted to the making of lantern slide plates directly from the microscope. It works freely on the perpendicular supports, and may be set at any height by turning the set screws on the sides.

The length of perpendicular supports is 31 inches above the standard or base; and the focal length of bellows about 24 inches. The camera is provided with a 4 x 5 double dry plate holder.

Price.....$30 00

COOPER'S UNIVERSAL ENLARGING LANTERN.

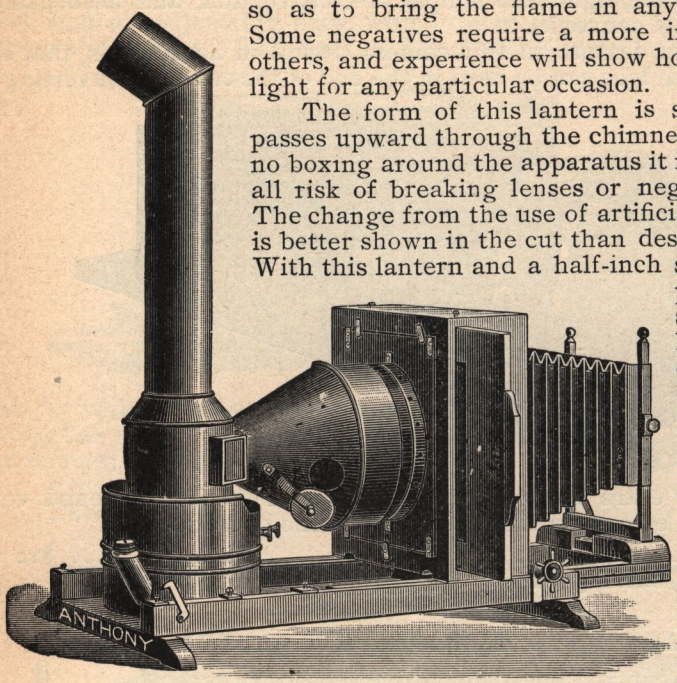
Patented. Cooper & Lewis, October 11, 1887, No. 371,252.
T. H. McAllister, April 6, 1886, No. 339,451.

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, and is provided with a close-fitting chimney base, fitted with an aperture covered with non-actinic glass, intended both for dark-room illumination, and 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 the centering point of his flame on the condensers; this he will see at a glance by the reflector The lamp is not rigid, but can be revolved so as to bring the flame in any desired position. Some negatives require a more intense light than others, and experience will show how to arrange the light for any particular occasion.

The form of this lantern is such that all heat passes upward 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 bromide enlargements from cabinet negatives may be easily made in from thirty-five seconds to one minute, according to density of negative.

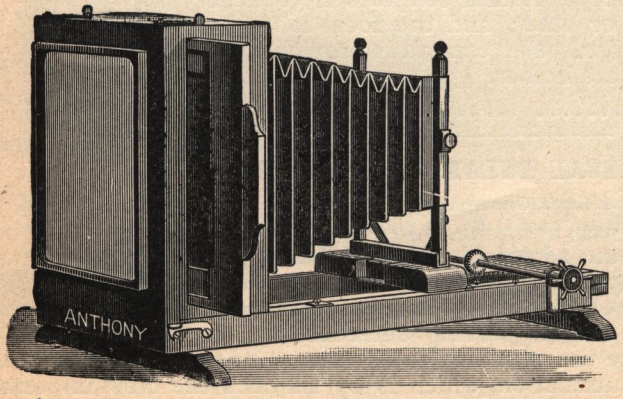


Above shows it as in use with *artificial* light.

The design of this lantern is the result of long practical experience with various methods of illumination for enlarging, and we 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

Any double combination lens may be used as an objective with this lantern — a portrait lens for enlarging portraits and landscape lens for landscapes.

This lantern may be transformed into an 8 x 10 portrait or copying camera by the addition of an adapter, double dry plate holder, and ground glass, at an extra expense of $10.00.

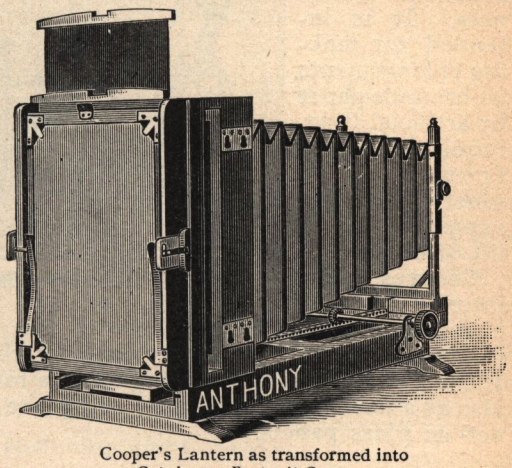


Above shows it as transformed into a *Daylight Enlarging Camera.*

Price, without objective (fitted with two	5½	in.	condensers)	.....	$43	00
" " "	8	"	"	.....	61	00
" " "	9	"	"	.....	75	00
" " "	10	"	"	.....	84	00

FOR DAYLIGHT ENLARGING.—Remove the lamp and condensers, rack the front inward as far as it will come, then raise the back of the bellows-bearing frame from its position to the back of the bed-board, on which it will be securely held by the screw heads which fit into the keyhole slots corresponding. Remove the front in the same way and set it back on the screws designed for it, which will be found on the removable bed operated by the rack work. Attach the ground glass frame to the back, and the instrument is ready for use. A dark-room with an aperture in the window allowing the ground glass end to fit firmly so as to exclude all outside light, but allowing an unobstructed view of the sky, is the most satisfactory.

If you cannot get a clear view of the sky, use a mirror at a proper angle to reflect the sky above. White card-board reflectors may be used, but nothing equals the mirror. A shelf should be fastened to the window to support the weight of the camera.

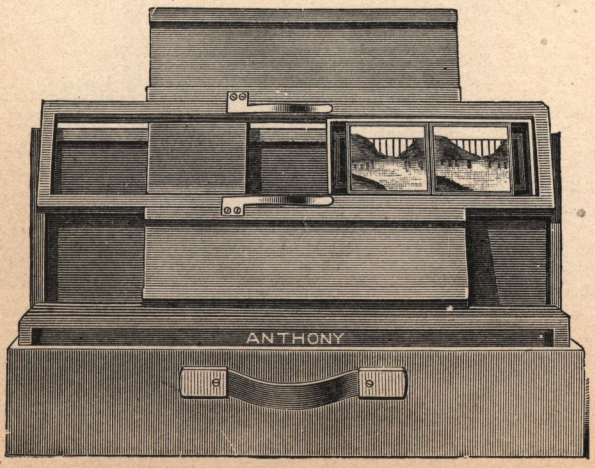


Cooper's Lantern as transformed into *Copying or Portrait Camera.*

USED AS A COPYING OR PORTRAIT CAMERA.—Besides the double use for artificial or daylight work, this camera may be fitted with an attachment by which it can be quickly and easily adapted to the purposes of a copying or portrait camera. The camera being put together as in use for daylight enlarging, the ground glass and carrier are removed, and in their place a regular camera back is buttoned on. This is provided with a double dry plate holder, 8x10, which is slid into position under the ground glass, as shown in the cut. For ordinary work up to 8x10 in the gallery, this is as good as any camera made.

Price of Attachment, with 8x10 Double Dry Plate Holder, in addition to cost of Lantern..... .....$10 00

MAGIC LANTERN ATTACHMENT TO COOPER'S ENLARGING LANTERN

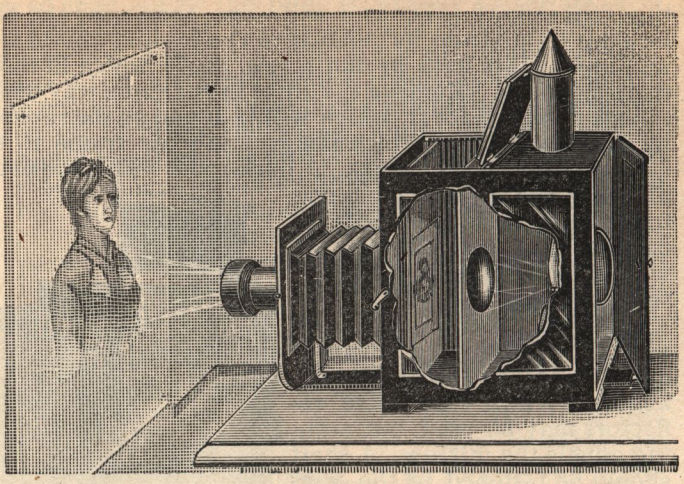


This cut represents the attachments which may be used for the exhibition of slides of views or scientific subjects, and makes the apparatus complete and specially suited to the use of schools, colleges, and societies.

Consists of frame, six carriers, and box.

Price.....$7 50

ANTHONY'S PATENT IMPROVED ENLARGING LANTERN.



The great merit of this new enlarging camera is its simplicity of construction, economy, and practical usefulness. It is intended for making enlargements on bromide paper by artificial light, requiring only from sixty to ninety seconds' exposure for a life-size head.

Grooves in the interior admit of changing the relative positions of the negative and the two 5½ inch condensing lenses. It is very compact, the size being 22 x 15 x 8 inches. It can also be used as a copying camera for making lantern transparencies; also as a dark room lantern by using the sides which are fitted with non-actinic glass panels.

Price, without projecting lens.....$22 00
Including one-quarter size E. A. portrait lens..... 30 50

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CATALOGUE D.

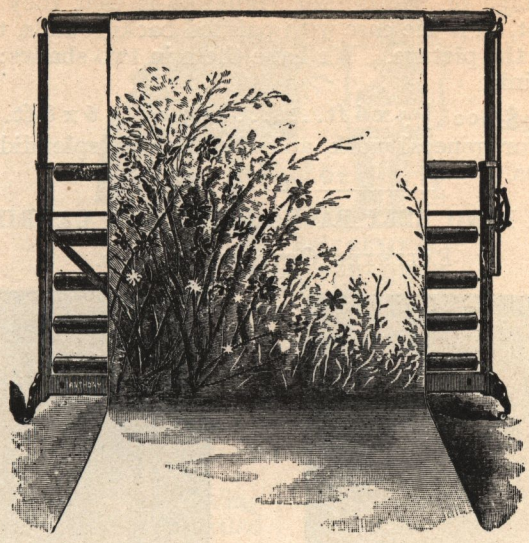
Professional Studio Sundries

1904

THE ANTHONY & SCOVILL COMPANY
122-124 FIFTH AVENUE, NEW YORK

Catalogue A.—Lenses and Shutters.
" B.—Studio Cameras, Stands and Attachments.
" C.—Hand and View Cameras, Enlarging, Lantern Slide and Micrographic Cameras, Plate Holders and Carrying Cases.
" D.—Professional Studio Sundries.
" E.—General Photo Sundries and Photographic Publications.
" F.—Chemicals, Films, Papers and Plates.
" G.—Photo-Engravers' Supplies.

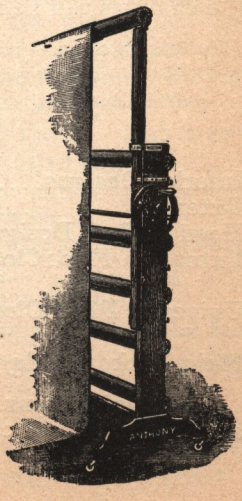
THE ANTHONY BACKGROUND CARRIER.



It is made of selected cherry, handsomely finished, and the metal parts are of japanned iron and burnished brass. It is an ornament to any operating room.

This carrier is constructed with a view to obtaining every desired result with the greatest simplicity and ease. It is so arranged that it may be put together without the aid of any tools but the small wrench which accompanies it, and may be set up in five minutes.

The manipulating is all done with one crank or hand wheel, which both elevates the roller and winds and unwinds the ground. No ratchet wheel or locking device of any kind is used, the roller staying where put, without locking. There being no ropes, chains, pulleys or ratchets, the carrier cannot get out of order. The roller can be raised to any height, the end posts or roller supports, being telescopic. In handling, backgrounds behind a subject, it is a great advantage to be able to raise or lower the background to suit the subject.



The rollers are a great improvement over any heretofore offered. Tin rollers, when indented, are difficult to repair. The improved roller for the Anthony Carrier is a specially made hollow tube, with canvas cover, and cannot be bent or indented. In addition it is less than one-half the weight of the tin roller, and it costs one dollar less. The Anthony Background Carrier is made in two sizes, one for backgrounds 8 feet wide, and the other 10 feet wide. Size desired should be stated in order.

Complete, with one Roller.....$25 00
Extra (5-inch) Rollers..... 3 50

NEW FELT BACKGROUNDS.

FOR VIGNETTES.

The advantage of "felts" for vignettes is that they absorb rather than reflect light, as is the case with painted backgrounds, thus producing softer effects in the picture. We have them in two shades: No. E, drab; No. CC, light pink.

4 x 6 ft.....$4 00 | 5 x 6 ft.....$5 00 | 6 x 8 ft.....$6 00

The E is for general work, and the pink is splendid for children. Send for samples.

THE KING BELT BACKGROUND AND CARRIER.

PATENTED OCTOBER 28, 1890.

These backgrounds are painted on burlap, in dark effects, for Monarch Matte pictures. They are in the form of a continuous belt, 5 feet wide and 16 feet long, working on a roller at the top and bottom of the carrier. This arrangement makes possible a great variety of artistic effects, and the changes can be made with great rapidity.

BACKGROUNDS.

ON COTTON CLOTH.

Interior Designs	per sq. ft.	$0 25
Exterior "	"	20
Head of Bust Designs	"	15
Extension Floor Cloth, Plain	"	08
" " " with Carpet, Rug, and Tiled Effect	"	10
Universal Floor Cloth, 8 x 8		8 00
" " " Double End, 8 x 8		9 00
Plain Backgrounds, any shade	per sq. ft.	08

Special designs painted upon burlaps or duck, 5 cents per square foot additional. Floor cloths, painted in oil, 5 cents per square foot additional.

COOLIDGE'S PHOTO-CARICATURE FOREGROUNDS.

MADE TO ORDER ONLY.

Provide an endless source of amusement with the camera; by their use all sorts of grotesque combinations in portraiture being possible.

1 Foreground, mailed secure on roller $2 00
4 Foregrounds, mailed secure on roller 6 00
10 Foregrounds, mailed secure on roller 10 00

No.

1—Man riding a donkey, producing a very lively picture, entitled "I am coming!"

3—Man flying through the air on a goose, entitled "Out on a Fly."

6—Man riding in donkey cart, having an enjoyable time: "Have a ride?"

7—Person fishing from bank of stream. Hook about to be taken by monster fish.

9—Represents a gentleman with bag and cane, about to depart, entitled "Good-by, Sweetheart."

11—A fat man. A good subject for a lean man to select.

13—"No one to love." Man, with handkerchief in hand, weeping.

16—Girl promenading.

17—"When I joined the Club." Fellow trying to ride a goat. Good for all Order men.

18—Holding the baby. Baby is crying, and subject is walking the floor with it. Good for family men.

19—The bachelor. Man sewing on buttons. Good for bachelor to send a lady friend.

20—Man drinking a glass of lager. Taking among the Teutons.

21—"Put me in my Little Bed." Person in nightgown, with candle in hand.

No.

23—A modern swell. Very captivating.

25—The baseball player. Taking among fellows fond of the sport.

27—"Coney Island." Man bathing.

31—"I Paddle my own Canoe." Man in canoe.

38—"Only a Chicken." Man or woman with chicken's body.

44—Correct style. Man with high collar—mostly collar.

51—"I'm Engaged!" Lady with ring on finger.

54—The bicyclist. Very popular.

56—"I Travel with the Circus." Man riding on elephant.

63—"Fresh from Cork." Irish.

67—"Will you Love me when I'm Old?" By placing on the subject an old hat and eyeglasses, an extremely humorous caricature is obtained.

68—"My Dog Cart." Man drawn by diminutive dog.

69—"Wait for Me!" Agent running with bags.

99—Down in Florida. Man riding crocodile.

105—A champion pugilist.

116—"A Hot Day." Man with fan.

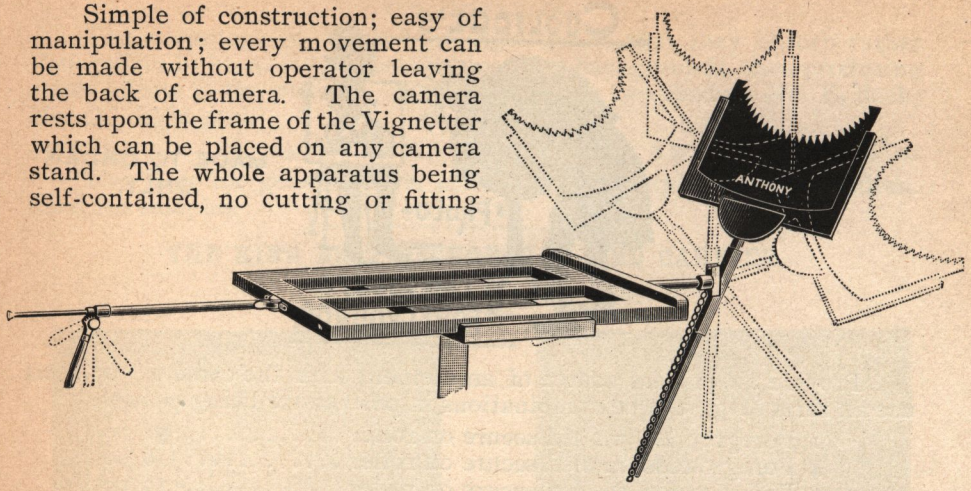
119—The Serenader. Fellow singing and playing the banjo.

120—A man tobogganist.

121—Young lady riding a donkey. Good companion for No. 1.

THE FARRAND VIGNETTER.

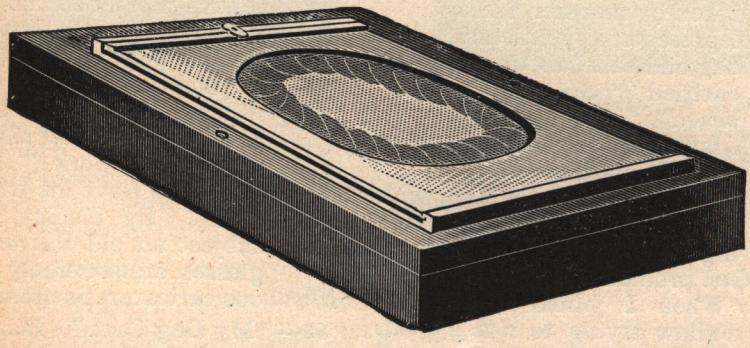
Simple of construction; easy of manipulation; every movement can be made without operator leaving the back of camera. The camera rests upon the frame of the Vignetter which can be placed on any camera stand. The whole apparatus being self-contained, no cutting or fitting



is necessary. Every movement conceivable is at the command of the operator and proper method of retaining the Vignetter in any position are provided.

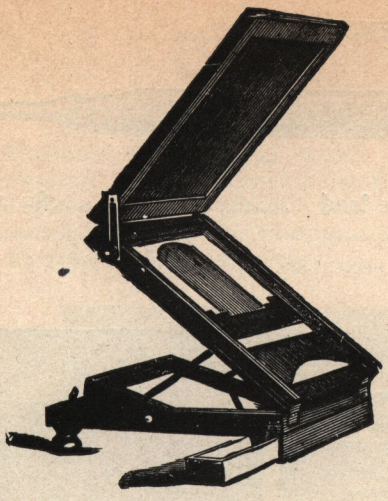
Price $10 00

THE DIXIE VIGNETTER.



Vignetted prints are easily obtained by this device. Practical, cheap, simple and durable. It is attached to the ordinary printing frame, and can be quickly, easily and accurately adjusted to any negative. The pear, oval, round, square, or any desired opening can be produced, of any size required and over the exact part of the negative where it is wanted. The Dixie Vignetter is complete. No separate parts. It costs but a trifle.

Size.	Each.	Doz.	Size.	Each.	Doz.
3¼ x 4¼	$0 30	$3 50	5 x 8½	$0 30	$3 50
4 x 5	30	3 50	6½ x 8½	45	5 00
4¼ x 6½	30	3 50	8 x 10	60	7 00
5 x 7	30	3 50	10 x 12	75	9 00



IMPROVED RETOUCHING FRAME.

Improved Retouching Frame, for 8 x 10 and under..... $3 00

Improved Retouching Frame, for 11 x 14 and under..... 6 00

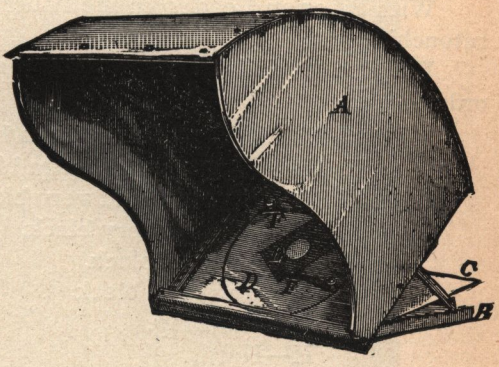
MOULTON'S IMPROVED RETOUCHING FRAMES.

8 x 10 Negatives, and under..... .....$4 00

11 x 14 Negatives..... 6 00

Larger sizes to order.

This is shipped packed flat.



CLIMAX ETCHING TOOLS.

This is used as an eraser to remodel any objectionable features which appear on the negative, also for etching on prints in carbon and matte papers.

Made from the finest tempered steel.

Price.....$0 50

RETOUCHING PENCILS.

Faber's Holders for Leads, including one lead.....$0 25

A. W. FABER'S PENCILS.

With Siberian Lead from the Albert mine. For retouching, etc.

We give the following scale for convenience in ordering:

BBBBBB—Extra soft and extra black.
BBBB—Very soft and extra black.
BBB—Very soft and very black
BB—Soft and very black.
B—Soft and black.
HB—Hard and black.
F—Middling.
H—Hard.
HH—Harder.
HHH—Very hard.
HHHH—Very hard.
HHHHHH—Extra hard.

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

Leads only.

SIBERIAN PENCILS.

	Per Doz.	Each.
2 B to 6 H	$1 10	$0 10
3 B " 6 B	1 25	13
2 B " 6 H, Leads	1 10	10
3 B " 6 B, "	1 25	13

THE A. C. T. ELECTRIC LIGHT SYSTEM.

FOR GALLERY USE.

Consists of a specially made hand-feed electric arc lamp and an adjustable rheostat, by which the light may be regulated from one thousand to ten thousand candle power. The lamp is perfect in construction, burning steadily with a light of ten thousand candle power if desired, using for this illumination a voltage of one hundred and ten, with a current of fifty amperes.

The new feature of the adjustable rheostat is, that by turning a small handle at the top of the rheostat the candle power may be changed from one thousand to ten thousand, or intermediate powers.

No adjustment is necessary, except to replace the carbons as they are burned out, and, by means of the small screw at the top of the lamp, to adjust them from time to time. The lamp being hand-fed, will burn for fifteen minutes without adjustment; by simply turning the wheel at the top adjustment is effected, and it will again burn for the same length of time without attention. This operation may be repeated indefinitely.

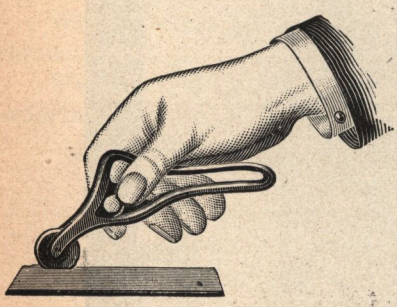
We furnish this lamp for both kinds of currents—direct and alternating. The necessary current for it may be obtained from the electric lighting company whose mains are nearest.

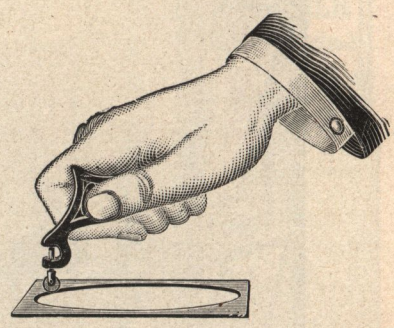
When ordering the apparatus or writing regarding the possibility of using it, send details concerning the kind of current that would be supplied, which details can be obtained from the electric company who supply you. The following information *must* be furnished before the lamp can be fitted: The kind of current, whether direct or alternating, and the voltage possible.

Hand-feed Lamp	$150 00
Automatic-feed Lamp	185 00
Large Reflecting Screen	20 00
Small Reflecting Screen	7 50

The Small Reflecting Screen is a useful adjunct to any gallery.

STRAIGHT AND ROTARY PHOTOGRAPH TRIMMERS.

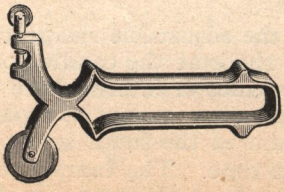




This trimmer does not cut but pinches off the waste paper and leaves the print with a neatly beveled edge, which facilitates adherence to the mount. For ovals and round corners it will give great satisfaction.

Straight Cut Trimmer	$0 15
Revolving Trimmer	20

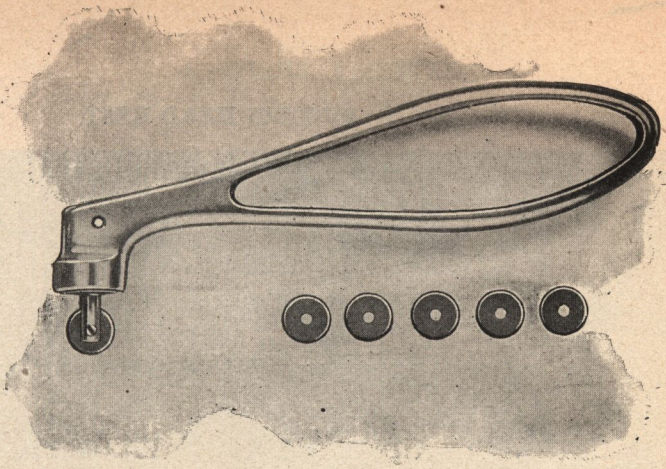
THE COMBINATION TRIMMER.



Is provided with both straight and rotary cutting wheels.

Price $0 25

THE TWENTIETH CENTURY BALL-BEARING TRIMMER.

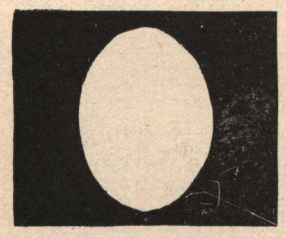


This trimmer is very nearly perfect for cutting ovals. The wheels are made of tool steel nicely tempered and sharpened. The swivel being set in hardened steel bearing reduces friction to a minimum and insures a very free running tool. The wheels are easily changeable when desired by simply removing the screw in the swivel shank.

Price with 6 wheels..... $1 50
Sets of 6 wheels, large or small..... 50

BRASS CUT-OUT FORMS.

Are made in the following sizes and shapes:



No.	Inches.	No.	Inches.
0—Oval	1⅜ x 2½	6—Circle	3⅜
1— "	2 x 2¾	7— "	3¾
2— "	3 1/16 x 4 3/16	8—Oval	2½ x 3½
3— "	3½ x 5	9— "	1⅞ x 3⅝
4— "	3¾ x 5¾	10— "	2¾ x 5¼
5—Circle	3	11— "	3 x 6⅓

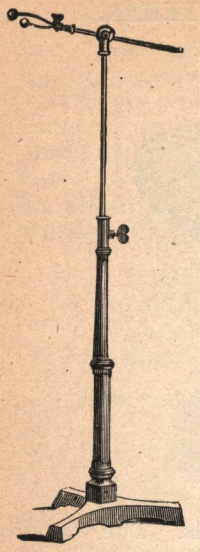
Price per dozen, $3.00; each, 30 cents.

TRANSPARENT CELLULOID FORMS.

These cut-outs are convenient in trimming to special shapes and sizes, as, being transparent, the form may be moved about on the picture to be trimmed until the desired shape is found, the whole print being visible during the operation.

No.		Price.
	Ovals	$0 25
1—2 x 2¾	"	30
8—2½ x 3½	"	35
9—1⅞ x 3⅝	"	35
2—3 1/16 x 4 3/16	"	40
10—2¾ x 5¼	"	40
3—3½ x 5	"	40

No.		Price.
11—3	x 6⅜ Ovals	$0 50
4—3¾	x 5¾ "	50
6—2⅜	in. Circles	30
5—3	" "	35
7 3¾	" "	40
12—2½	x 6½	



SUCCESS HEAD REST.

Is handsomely finished, neat and attractive. Thoroughly practical in every respect.

No. 61. Extra finish, tall..... $3 25
" 61. " " short..... 3 15

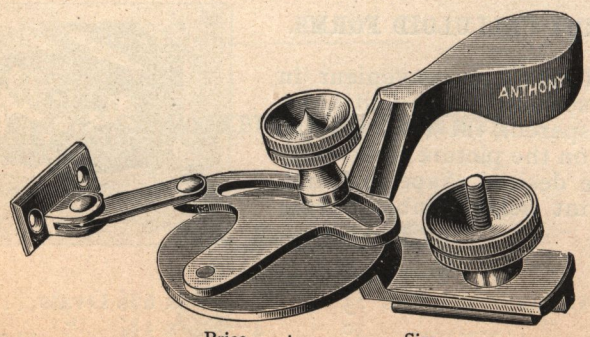
With Back Support, 75 cents extra.

PARTS OF SUCCESS HEAD RESTS.

Base..... $1 20
Short Pillar..... 1 50
Tall Pillar..... 1 50
Rod..... 60
Ear Pieces..... 1 00
Cross Head..... 40

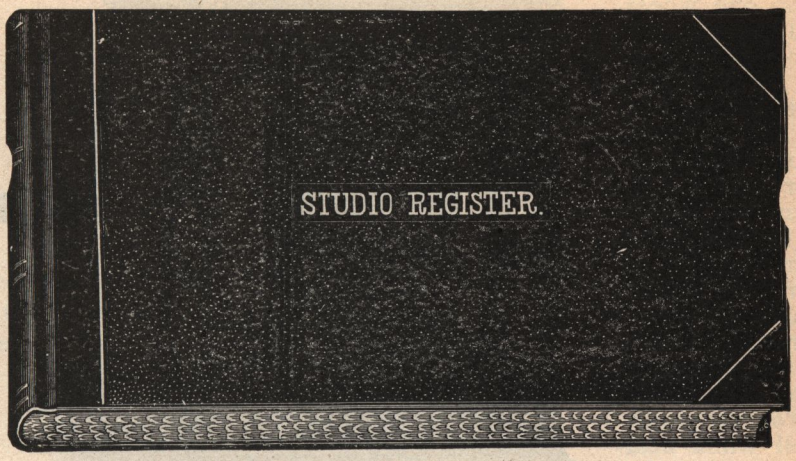
FOCUSING LEVER COMPLETE.

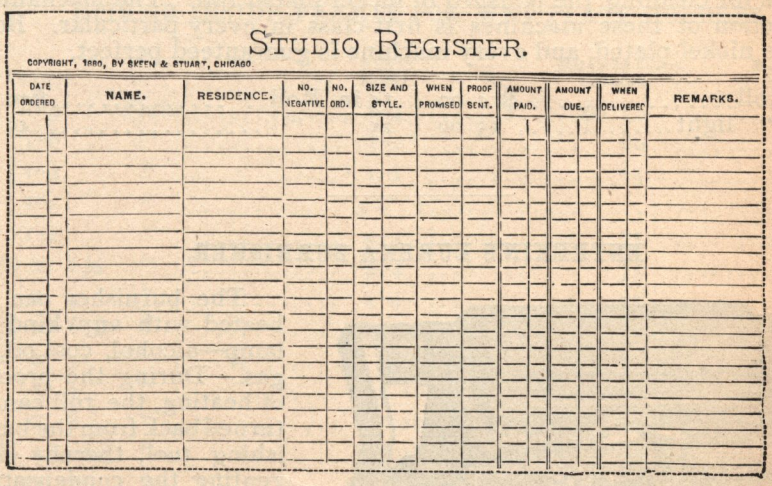
As shown by the cut, this lever is of great assistance in working any large camera box; it renders a perfect adjustment of focus easily obtainable. A general focus is first obtained in the ordinary way; by slight pressure on the lever may be reduced to microscopic sharpness, which, once obtained, may be kept by means of milled binding screw.



Size.	Price.	Size.	Price.
For 8 x 10 Cameras.....	$3 50	For 17 x 20 Cameras.....	$5 00
" 11 x 14 "	3 50	" 18 x 22 "	5 00
" 14 x 17 "	5 00	" 20 x 24 "	5 00

STUDIO REGISTER.





STUDIO REGISTER.

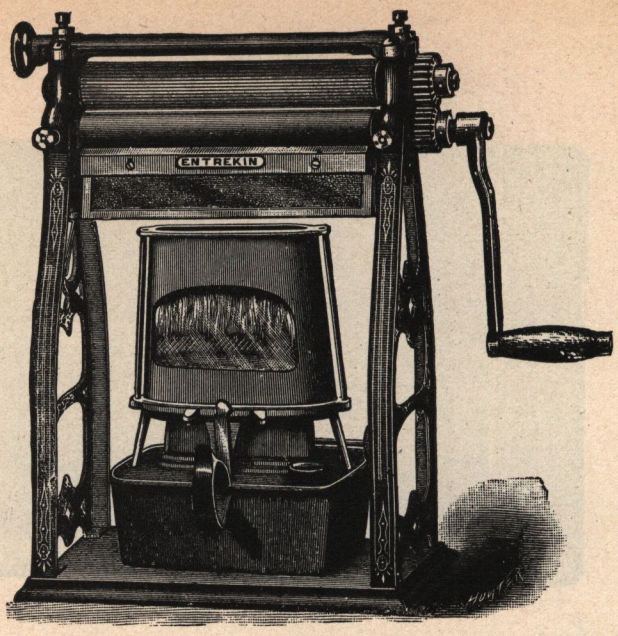
COPYRIGHT, 1880, BY GREEN & STUART, CHICAGO.

DATE ORDERED	NAME.	RESIDENCE.	NO. NEGATIVE	NO. ORD.	SIZE AND STYLE.	WHEN PROMISED	PROOF SENT.	AMOUNT PAID.	AMOUNT DUE.	WHEN DELIVERED	REMARKS.

The full size of sheet, as used in the book, is 8¼ x 14 inches; there are 20 lines on a page, all pages alike. The books are well bound, with leather back and corners, cloth sides and index in front. No well-regulated gallery should be without one of these very useful books. Use it a week and you would not be without it for ten times the price.

			Price.				Price.
No. 1.	160	pages, each.....	$2 75	No. 3.	320	pages, each.....	$4 25
" 2.	240	" "	3 50	" 4.	400	" "	5 00

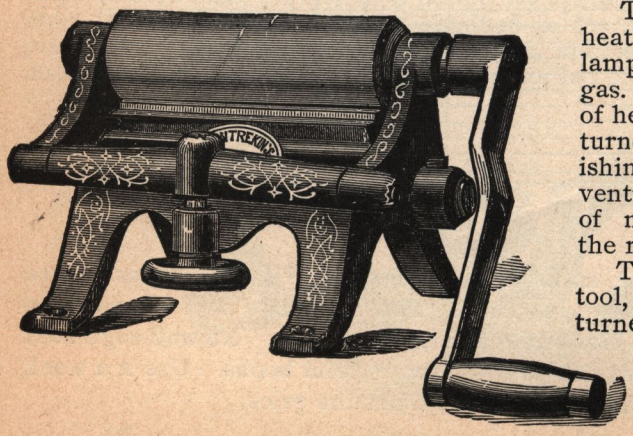
ENTREKIN'S IMPROVED ROTARY BURNISHER.



This is without exception, the best rotary burnisher in the world. It combines the turn-back roll, the one wheel-end adjustment, and the lock nut and set screw for maintaining even wear on the boxes and journals, with our patent device for uniform pressure, and is provided with a swing fire pan. The most valuable improvement of this machine over all other rotary burnishers is, that the upper roll can be turned back from the polishing roll while heating, so preventing the moisture from dropping on the polishing roll and defacing the same: also giving better facilities for cleaning the polished or nickel-plated roll. The mechanical construction of these machines is first-class in every particular. Both rolls are nickel-plated, and every machine is guaranteed perfect.

8-in. Roll	$12 00	15 in. Roll	$30 00
10 " " light	15 00	25 " "	45 00

ENTREKIN'S EUREKA BURNISHER.



The 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 burnishing tool, the roll is simply turned back from the tool.

No hot plates to handle, and consequently no burned fingers.

This machine has also the patent removable burnishing tool, which is a decided advantage.

14-in. Roll.....$22 50

THE PRIMUS BURNISHER HEATER.

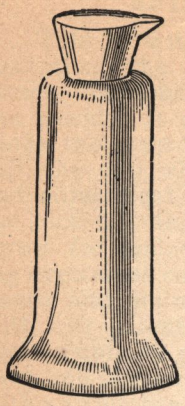
FOR KEROSENE OIL.

Safe, simple, efficient, economical, durable, clean. Will heat a 15 in. solid roll burnisher in 17 minutes. This is a wonderfully efficient form of lamp for burnisher, and stands without an equal for rapidity, volume of heat, and economy of production.

Price..... $2 50

KITS OR INSIDE FRAMES FOR WET PLATE HOLDERS.

To Hold.		Fits in Shield.	Patented Glass Corners.	Rabbetted for Ferrotypes.
1–9	Plate.....	1–4	$0 50	..
1–6	"	1–2	60	..
1–4	"	1–2	65	$0 25
1–2	"	5 x 7.....	.. ..	30
1–2	"	4–4	75	30
4½ x 6½	"	4–4	75	35
5 x 4	"	4–4	75	30
4¼ x 6½	"	8 x 10.....	90	35
5 x 7	"	7 x 10.....	.. ..	30
5 x 7	"	8 x 10.....	90	35
5 x 8	"	8 x 10.....	90	..
6½ x 8½	"	8 x 10.....	1 00	35
7 x 10	"	11 x 14.....	.. ..	60
8 x 10	"	10 x 12.....	1 10	55
8 x 10	"	11 x 14.....	1 20	60
10 x 12	"	14 x 17.....	1 60	75
11 x 14	"	14 x 17.....	1 60	75
14 x 17	"	17 x 20.....	1 80	1 00
17 x 20	"	20 x 24.....	2 25	1 25



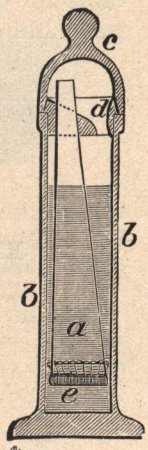
EFFECTIVE COLLODION BOTTLE.

A marked improvement in the plain collodion vial will be seen in the illustration. Many of these articles have not been provided with a good pouring lip, and have had no means for preventing the flowing of any possible sediment outward with the collodion or varnish. The curvature in the base retards the passage of that sediment, while the lip is so constructed that the liquid returns to the bottle and does not drop outwardly. The neck is widened to more readily admit the return of the solution to the bottle.

Can be effectually corked.

Eight ounce size, price 40 cents each.

CROSS' FILTERING AND POURING BOTTLE.



This vial is most useful for filtering and pouring. Oftentimes collodion requires modification—it may be too thick or too thin, too old or too new, or the photographer may be desirous of combining two or more varieties, to meet a present requirement; and in all similar exigencies he has nothing to do but to fill the vial and go to work, for the process of filtration is constantly progressing. It is equally useful for varnishes.

The bottle is of the ordinary form, but of somewhat larger size; inside of this a graduated glass tube is inserted, from the top of which the collodion or varnish flows; and at the base one or more thicknesses of canton flannel serve for a filter that will last for months. The funnel-shaped orifice (*d*) receives the excess from the plate, and renders waste unnecessary. The cap covers both flowing and receiving orifices, and is easily removed. It is highly commended by many users.

Price.....$3 50

PORCELAIN EVAPORATING DISHES.

These are the genuine imported; cheaper goods are on the market, but are not so reliable.

No.	Diam.	Containing	Price.
00	16	3 gallons	$5 00
0	15	2 "	3 50
1	13	1 "	2 10
2	12	3 quarts	1 75
3	11	2 "	1 30

No.	Diam.	Containing	Price.
4	10	3 pints	$1 00
5	9	2 "	85
6	8	24 ounces	75
7	7	20 "	65

ANTHONY'S GLASS BATHS IN BOXES.

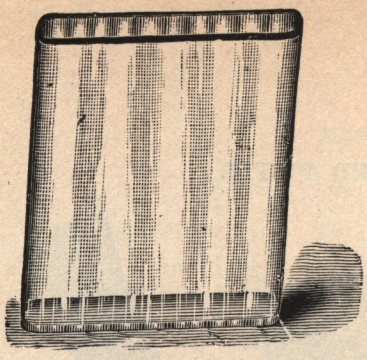


Fig. 1.

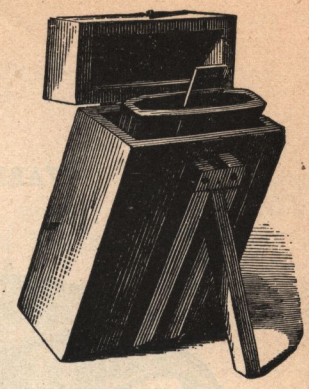


Fig. 2

Without Box, Fig. 1.

Size.	For Plate.	Price.
5 x 7	4¼ x 5½	$0 90
7 x 10	6½ x 8½	1 20
9 x 11	8 x 10	1 80
11 x 14	10 x 12	3 00
12 x 16	11 x 14	6 00
15 x 20	14 x 17	$15 00
16 x 20	14 x 17	18 00
18 x 22	17 x 20	27 00
21 x 26	20 x 24	50 00

With Box, Fig. 2.

Size.	For Plate.	Price.
5 x 7	4¼ x 5½	$1 65
7 x 10	6½ x 8½	2 10
9 x 11	8 x 10	3 05
11 x 14	10 x 12	4 25
12 x 16	11 x 14	7 35
15 x 20	14 x 17	$17 50
16 x 20	14 x 17	20 50
18 x 22	17 x 20	30 00
21 x 26	20 x 24	54 00

HARD RUBBER DIPPERS.

No.	Size.	Price.
4	5 x 7	$0 37
5	7 x 10	42
6	9 x 11	47
6½	10 x 12	53
7	12 x 16	$0 63
8	14 x 18	84
9	17 x 29	1 05
10	19 x 24	1 52

VARNISH POT AND FILTER.

This useful article consists of a tin pot with a filter and funnel in top which is slightly sunk, so draining into the funnel. The spout, which is provided with rubber stopper, is cut level, so allowing the whole (spout and top) to be covered with a single piece of glass.

Put your varnish in clean, flow your plates and drain surplus varnish back through the funnel in the top and you will never be troubled with specks of dirt in it.

Capacity 16 ounces.

Price.....$0 30

FERROTYPE ENVELOPES.

Bon-ton Ferrotype Envelopes, per 1,000 ..... $1 60

ENCLOSURES.

No.	Size.	Ivory Bond Per M.	Napoleon Bond Per M.
5	2½ x 4⅜	$1 20	$1 43
15	3¾ x 4	1 35	1 57
20	3⅜ x 5⅜	1 35	1 57
21	3½ x 5½	1 35	1 57
29	4 x 6	1 35	1 73
30	4¼ x 6¼	1 35	1 73
34	4⅞ x 5⅞	1 35	1 73
35	4¼ x 6¾	1 09	1 28
36	4⅜ x 6⅞	1 09	1 28
38	4½ x 6¾	1 50	2 10
39	4¾ x 6¼	1 43	1 88
40	5⅛ x 7½	1 80	1 95
40½	5¼ x 7⅝	$1 80	$1 95
42	5⅝ x 7	1 80	1 95
42½	5¾ x 7⅛	1 80	1 95
43	5½ x 7¾	2 17	2 77
45	5¼ x 8¾	2 40	3 22
46	6 x 8¼	2 40	3 00
47	5¾ x 8	2 25	2 77
49	6¾ x 9¼	2 85	3 75
50	6⅞ x 10¼	2 77	3 60
52	7 x 9⅜	2 65	3 00
60	8⅛ x 10⅜	3 30	3 60
70	10⅛ x 12½	4 88	6 75

(Nos. 21, 35, 36, 40, 40½, 52, 60, 70, always kept in stock. Others are furnished on short notice.)

PROOF ENVELOPES.

(NON-ACTINIC.)

No. 1152 ..... Size, 3⅛ x 6 ..... No. 6 ..... $1 50 per thousand
" " ..... " 4⅛ x 6¼ ..... " 7 ..... 2 75 " "

MAILING ENVELOPES.

(500 IN BOX.)

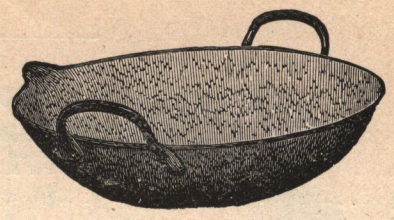
No.	Lbs.	Size.		Per M.
9403	40	5½ x 7½	O. E.	$1 45
9403	40	6¼ x 8¼	(Corona)	2 00
9403	40	8½ x 10½	(Boudoir or Paris Panel)	3 00
9503	50	5½ x 7½		1 80
9503	50	6¼ x 8¼	(Corona)	2 50
9503	50	7½ x 9½		3 00
9503	50	8½ x 10½		3 50
9503	50	8¼ x 11¼		4 00
9503	50	12 x 15		8 00

PRICES FOR PRINTING ENVELOPES.

Lots.	Black Per M.	Color Per M.
1,000	$1 00	$1 25
3,000	85	1 00
5,000	75	85
10,000	$0 65	$0 75
20,000	50	65

AGATE EVAPORATING DISHES.

No.	Diam. in.	Capacity.	Price.
1	5	1 pint	$0 75
2	8	1 quart	1 00
3	9	½ gallon	1 50
4	12	1 "	2 00
5	16	2 "	3 00
6	18	3 "	4 00
7	20	4 "	6 00
8	22	5 "	12 00
9	24	6 "	15 00



GLASS MORTARS AND PESTLES.

Size.	Price.	Size.	Price.
1 ounce	$0 15	8 ounces	$0 35
2 "	20	16 "	55
4 "	25	32 "	88

PORCELAIN MORTARS AND PESTLES.

Size.	Price.	Size.	Price.
8 in.	$2 25	4 in.	$0 70
7 "	1 75	3 "	50
5½ "	1 25	2½ "	45
5 "	1 00	2 "	40

HYDROMETERS.

For measuring the specific gravity or relative density of liquids. These Hydrometers are guaranteed to be accurate.

Single degree scale, packed in wooden cases, each....$0 50

SUPERIOR CONVEX GLASS.

For covering fine pictures, and especially for the Photochrome process.

Size.		Per Doz.	Per Gross.
	Card size, Oval or Round Corners	$0 30	$3 00
4¼ x 6¼	—Cabinet size, " " "	50	5 00
4⅛ x 7⅛	—Promenade size, " "	60	6 75
4¼ x 8¼	—Panel " " "	75	8 50
5½ x 8½	—Boudoir " " "	1 00	11 00
6½ x 8½	—Whole size, Oval or " "	1 25	.....
8 x 10	—Extra Whole size, Oval or Round Corners	2 50	.....
10 x 12	—Double " " " " " "	6 75	.....

COLLODION FILTERS.

12 ounce....$2 00

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" Mailing	19
" Proof	19
Etching Tools, Climax	7
Evaporating Dishes	16–20
Farrand Vignetter	6
Felt Backgrounds	4
Ferrotype Envelopes	19
Filters, Collodion	20
Focusing Lever	11
Foregrounds, Caricature	5
Glass Baths	16
Glass, Convex	20
Hard Rubber Dippers	17
Head Rest, Success	12
Hydrometers	20
Improved Retouching Frame,	7
Inside Kits for Wet Plate Holders	15
King Belt Background and Carrier	4
Kits, Inside for Wet Plate Holders	15
Mailing Envelopes	19
Mortar and Pestle	20
Moulton's Retouching Frame	7
Pencils, Retouching	8
Porcelain Evaporating Dishes	16
" Mortars and Pestles	20
Primus Burnisher Heater	15
Proof Envelopes	19
Retouching Frames	7
" Pencils	8
Straight and Rotary Trimmers	10–11
Studio Register	13
Success Head Rest	12
Transparent Celluloid Forms	11
Trimmers	10
" 20th Century	11
Varnish Pot and Filter	18
Vignetter, Farrand	6
" Dixie	6

CATALOGUE E.

GENERAL PHOTOGRAPHIC SUNDRIES

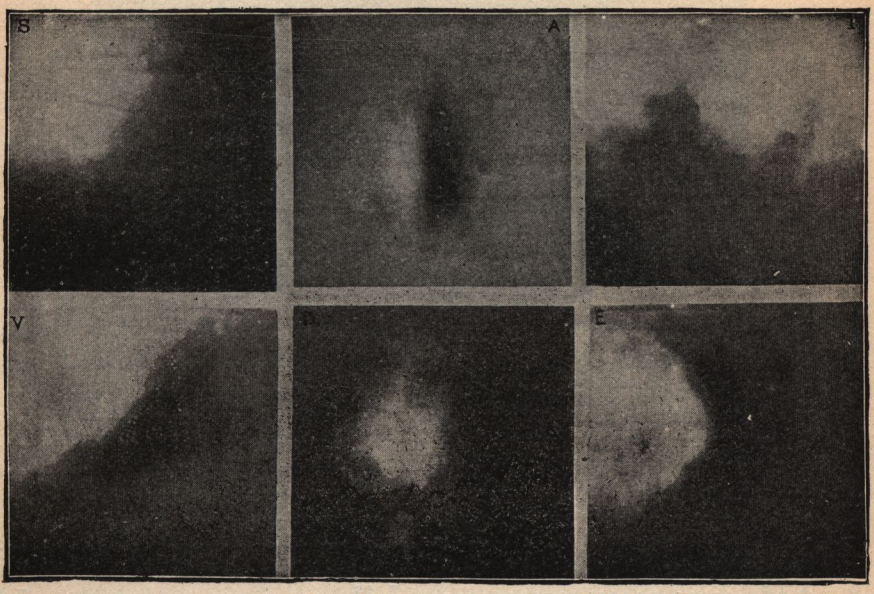
1904

THE ANTHONY & SCOVILL COMPANY
122-124 FIFTH AVENUE, NEW YORK

Catalogue A.—Lenses and Shutters.
" B.—Studio Cameras, Stands and Attachments.
" C.—Hand and View Cameras, Enlarging, Lantern Slide and Micrographic Cameras, Plate Holders and Carrying Cases.
" D.—Professional Studio Sundries.
" E.—General Photo Sundries and Photographic Publications.
" F.—Chemicals, Films, Papers and Plates.
" G.—Photo-Engravers' Supplies.

ANTHONY'S NEW AMATEUR BACKGROUNDS. 5 x 6.

MADE IN SET OF SIX DESIGNS.



Anthony's new amateur grounds are painted in a new oil preparation, which makes them very desirable for the amateur's use. The paint will not rub off, does not crease when rolled, is without dust or dirt, and is free from the disagreeable odor so common with ordinary grounds.

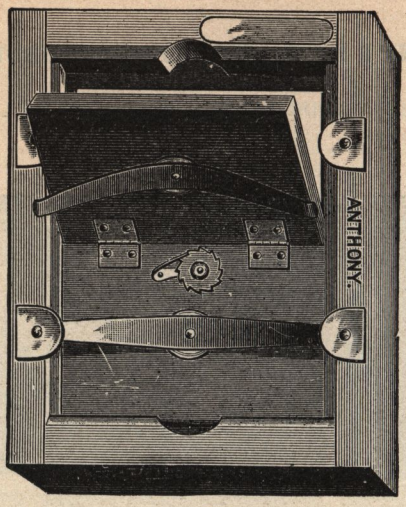
Each background is on individual roller, and wrapped ready for shipment.

Single Ground.....$1 50

When ordering less than complete set, be sure to designate the number of design or designs wanted.

ANTHONY'S PATENT IMPROVED PRINTING FRAMES.

The good points of this frame are a washer under the spring which saves wear, a tongue and groove where the back is hinged preventing the entrance of light, and a depressed celluloid tablet for recording memoranda. This frame is well made, and altogether a most excellent article.



Size.	Flat.	Deep.
3¼ x 4¼	$0 36	....
4 x 5	38	....
4¼ x 5½	40	....
4¼ x 6½	42	....
4¾ x 6½	50	....
5 x 7	50	....
5 x 8	52	....
6½ x 8½	60	$1 20
8 x 10	75	1 40
10 x 12	1 25	1 60
11 x 14	1 80	2 40
14 x 17	2 75	3 00
16 x 20	3 50	4 20
17 x 20	3 50	4 50
18 x 22	4 00	5 00
20 x 24	5 00	5 25
24 x 30	....	8 80
35 x 45	....	15 00
30 x 60	....	20 00

When the backs open lengthwise 10 per cent. additional is charged.

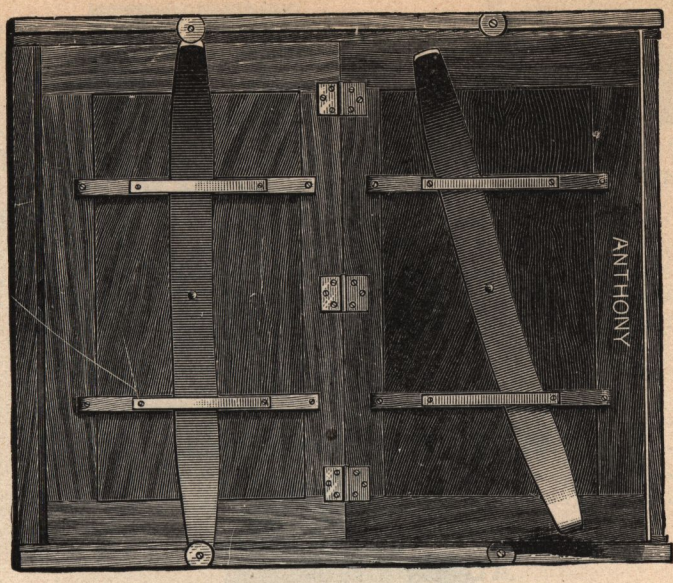
ANTHONY'S AMATEUR PRINTING FRAMES.

Are made on the same general principle as the Patent Improved Printing Frames, but are of lighter construction, and are manufactured in the smaller sizes only, as follows:

Size.	Price.	Size.	Price.
2 x 2	$0 25	3¼ x 4	$0 25
2½ x 2½	25	3¼ x 4¼	25
3 x 3¼	25	3½ x 3½	25
3 x 3½	25	4¼ x 4¼	25
3¼ x 3¼	25	4 x 5	25

They are without printing tally or registering device.

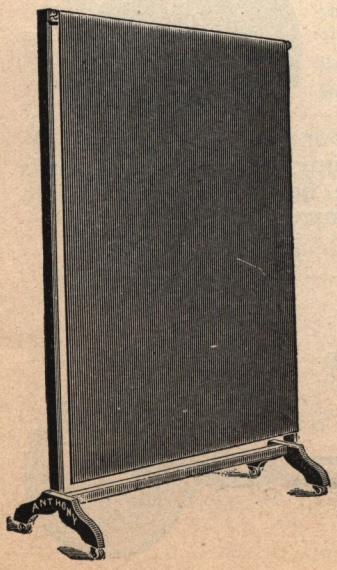
ANTHONY'S IMPROVED PRINTING FRAME.



As will be noticed by the illustration, the pressure on the negative is equally distributed, the bearing covering eight points, thereby reducing the danger of breaking a negative to the minimum.

PRICES:

14 x 17	$2 75
17 x 20	3 50
18 x 22	4 00
20 x 24	5 00



THE ASCOT CARRIER WITH GROUND.

A thoroughly practicable carrier, made with special reference to the requirements of the amateur, where compactness and price are important. This carrier is made with socket joints, and may be taken apart and packed away in very small compass. It is fitted with a background 5½ feet square, on a best quality Hartshorn Roller, which keeps ground in perfect condition, and is a most valuable accessory to the amateur.

Carrier complete, with ground..$5 00

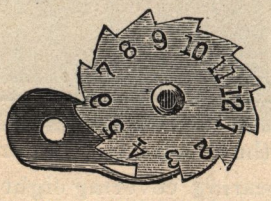
PRINTING FRAME PADS.

Good felt pads for the printing frame have long been in demand, To supply this want we have provided them in the following sizes, put up in boxes of one dozen each:

Size.	Per Doz.
3¼ x 4¼	$0 35
4 x 5	40
4¼ x 5½	45
4¼ x 6½	60
5 x 7	70
5 x 8	80
6½ x 8½	1 08
8 x 10	1 75

Size.	Per Doz.
10 x 12	$2 40
11 x 14	3 00
14 x 17	5 00
16 x 20	7 00
17 x 20	7 50
18 x 22	9 00
20 x 24	9 75

SPRING REGISTERING TALLY.



Which is attached to all Anthony's printing frames except the Amateur without charge.

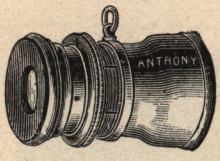
Price, separately.....$0 10

THE NEW DUPLEX FOCUSING GLASS.

Cheap and Good.

Price, $1.25

E. A. COMPOUND FOCUSING GLASS.

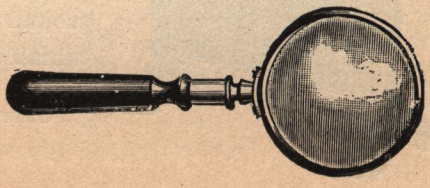


For fine work the E. A. Compound Focusing Glass is the best. It has a double compound lens.

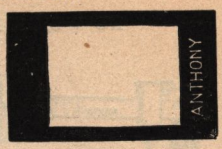
The price is $2.50.

RETOUCHING GLASSES.

			Each.
No. 252.	2	in. lens.....	$0 70
" 254.	2½	"	90
" 256.	3	"	1 25
" 258.	3½	"	1 75
" 260.	4	"	2 25
" 261.	4½	"	2 75



INSIDE DRY PLATE KITS.

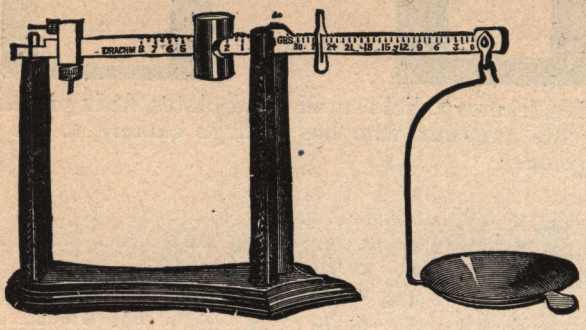


Thin wooden frames to hold small-sized plates, fitting in larger shields, thus enabling the amateur who has a large camera to use small plates as well as large ones.

| To Fit Shields. | | |

NEW PATENT DISPENSING SCALE.

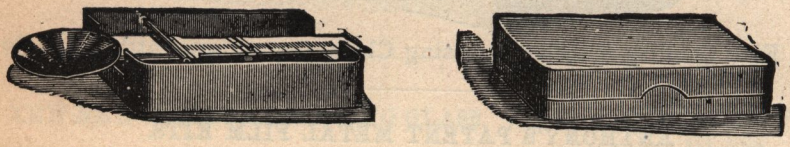
NO WEIGHTS—QUICKLY ADJUSTED.



It has a 9 in. nickel-plated beam, neatly mounted on a japanned iron standard. The front end of the beam weighs from 1 to 30 grains, the other end weighing from one-half to eight drams, or one ounce. The pan is movable, and has no side bar to interfere. We guarantee it to be thoroughly accurate.

Price.....$6 00

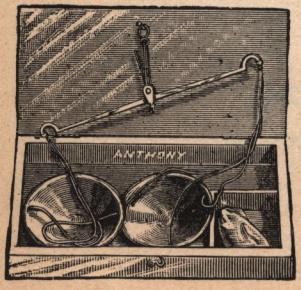
PATENT POCKET PYRO SCALES.



Capacity from one-half to twenty grains. No weights to lose; can be carried in the vest pocket; always ready and convenient; every photographer should have one.

Price.....$1 25

DISPENSING SCALES AND WEIGHTS.



5 in. beam, for drams and grains, in wood box.....$0 70

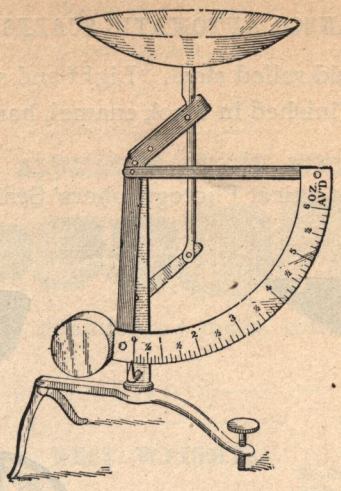
6 in. beam, for drams and grains, in wood box..... 85

8 in. beam for grains, scruples, drams, and ounces, in a wood box..... 1 25

No. 2, standard, 5½ in. beam, 2 in. brass pans, on walnut box, scale packs in drawer.

Price, including a full set of weights.....$5 50

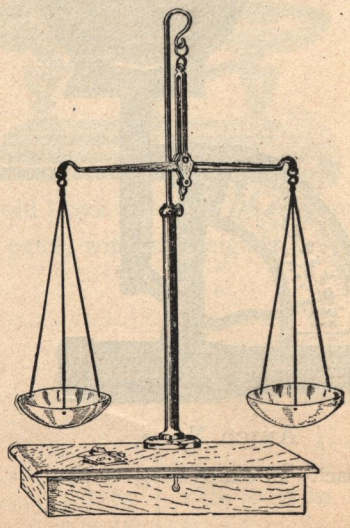
THE BRIGHTON SCALE.



Has a capacity up to 6 ounces, and is light, compact, and complete in itself. It has no weights, nor intricate parts.

Price.....$0 50

THE NEW SUCCESS SCALES.



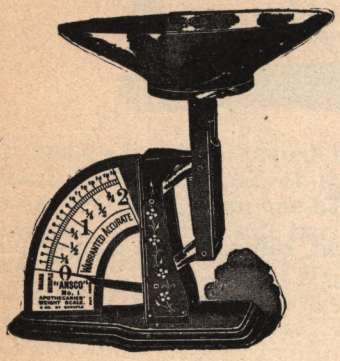
The beam is supported by a standard which screws into a plate fixed on cover of its enclosing box. The scales may be adjusted to height desired. The Scale Pans have a diameter of about 2 inches and depth of ½ inch.

Price.....$1 50

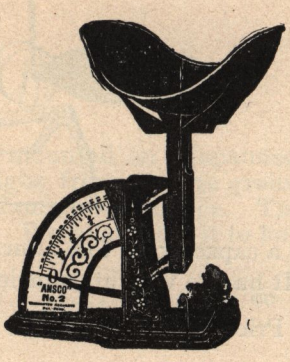
THE ANSCO AUTOMATIC SCALES

Constructed entirely of cold rolled steel. Light and strong. Fitted with large, plainly read dial. Finished in black enamel, handsomely decorated. Accuracy guaranteed.

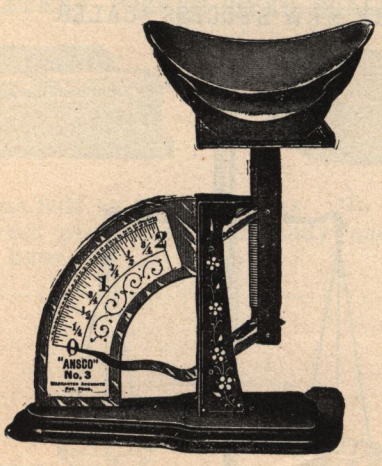
The latest and most practical Photographers' Scale on the market.



ANSCO No. 1.
Capacity 2 Ounces by Scruples.



ANSCO No. 2.
Capacity 1 Pound by ½ Ounces.



ANSCO No. 3.
Capacity 2 Pounds by ½ Ounces.

PRICE :

No. 1	$1 50
No. 2	1 50
No. 3	1 80

METRIC WEIGHTS.

SOLID BRASS IN CHERRY BLOCK.

20 gram piece and down to 1 centigram.....$0 65
50 " " " " " " " 1 10
100 " " " " " " " 1 60

SQUARE ALUMINUM GRAIN WEIGHTS

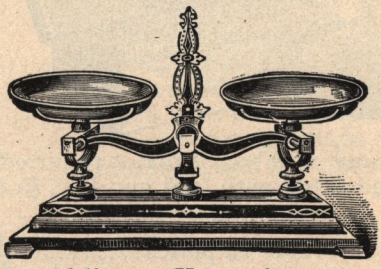
Made of pure sheet Aluminum; made concave, so they can be picked up readily.

½ grain to 10.....per set, $0 40

NEST WEIGHTS.

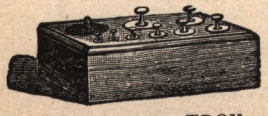
	Sealed Iron.	Sealed Zinc.	Sealed Brass.
Capacity 8 lbs. down to ¼ oz.....	$2 75	$5 50	$11 00
" 4 " " " "	1 75	3 50	6 00
" 2 " " " "	1 25	2 50	3 50
" 1 lb. " " "	1 00	1 75	2 00
" 8 ozs. " " "	0 75	1 25	1 50

ROBERVAHL PATTERN.



Neatly ornamented in gold lines. Heavy brass pans and brass indicator.

No. 2, 9 inch Pan, price, without weights.....each $7 50
" 3, 8 " " " " " " ..... " 6 00
" 4, 6 " " " " " " ..... " 5 00



BLOCK WEIGHTS.

SOLID BRASS IN CHERRY BLOCK.

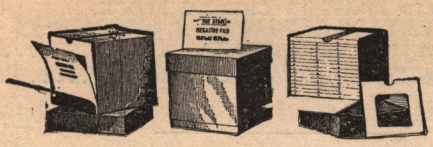
TROY.

1 oz. to ½ grain.....$1 00
Two 2 ozs. to " 1 75
5 " " " 2 50
10 " " " 4 00

AVOIRDUPOIS.

	Brass.
1 lb. to ⅛ oz.....	$2 25
2 " " "	3 50
4 " " "	5 00

STAR NEGATIVE FILE.



Patented July 16, 1900.

A heavy pastboard box covered in imitation morocco, fitted to hold about 50 glass negatives or a larger number of films separated by pasteboard frames, the centers of which are cut out for ventilation.

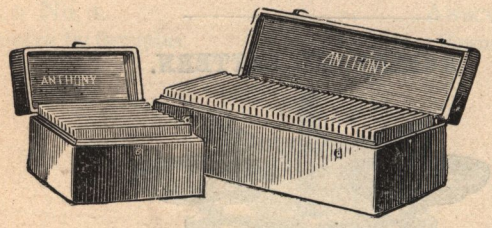
A heavy card, numbered for indexing, is in the front of each file.

The Star File provides a perfect means of storing and indexing negatives. Made in four sizes.

	Price, each.
Size for 3½ x 3½ Plates	$0 40
" 3¼ x 4¼ "	40
" 4 x 5 "	45
" 5 x 7 "	50
" 6½ x 8½ "	80
" 8 x 10 "	90

Special size for 50 Lantern slides. Larger sizes made to order.

NEGATIVE BOXES



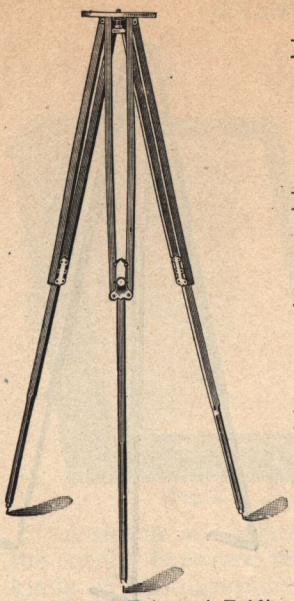
Special sizes to hold any number of plates required, made to order. Above blackened inside, and fitted with lock and key, $1.00 extra.

Size.		Price.
3¼ x 4¼	for 24 plates	$0 85
4 x 5	" 24 "	90
4¼ x 5½	" 24 "	90
4¼ x 6½	" 24 "	95
5 x 7	" 24 "	1 00
5 x 8	" 24 "	1 00
6½ x 8½	" 24 "	1 25
8 x 10	" 24 "	1 50
10 x 12	" 24 "	2 70
11 x 14	" 12 "	3 25
14 x 17	" 12 "	5 50
17 x 20	" 12 "	6 00
18 x 22	" 12 "	6 50
20 x 24	" 12 "	7 50

WOOD LANTERN SLIDE BOXES.

No. 1. To hold 25 Lantern Slides	$0 85
" 2. " " 50 " "	1 40
" 3. " " 100 " "	2 50

JOINTED TRIPODS.



Anthony's Telescopic Folding Tripod, Nos. 4 and 5.

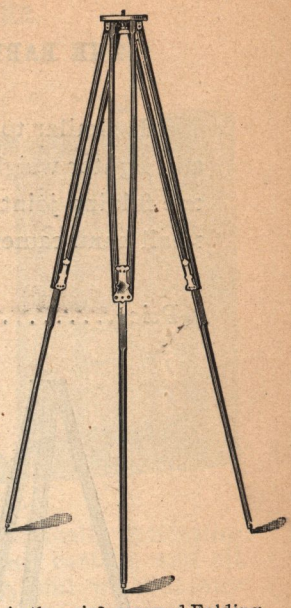
No. 1. Anthony's Improved Folding Tripod, with yellow shellac finish and nickel trimmings, 5 in. circular top, cloth covered.....$2 25

No. 2. Anthony's Improved Folding Tripod, same as above, with 8 in. top..$2 25

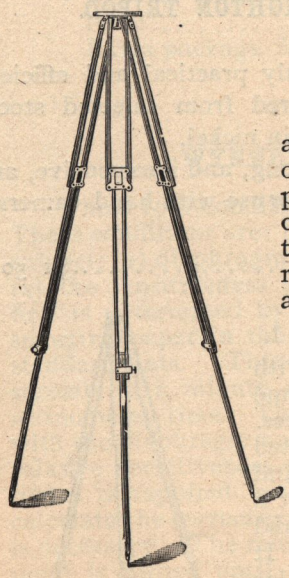
No. 4. Telescopic Legs, 6 in. top, fine finish and nickel trimmings, adapted to 6½ x 8½ and 8 x 10 sizes....$3 50

No. 5. Telescopic Legs, same as above, with 6 in. top but heavier, adapted to 11 x 14 size.....$3 75

No. 6. Large Tripod, with unjointed Legs and 12 in. top, sufficiently strong for the heaviest view cameras $6 00



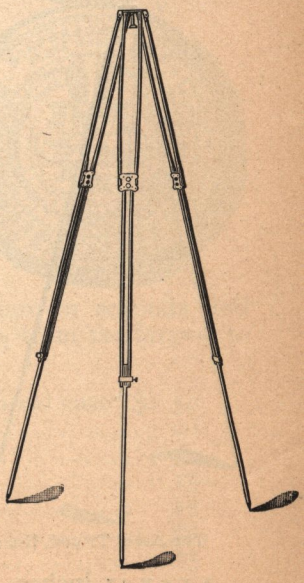
Anthony's Improved Folding Tripod, Nos. 1 and 2.



ANTHONY'S PATENT TRIPLEX TRIPOD.

Finely polished and perfectly rigid; combines the advantages of both the folding and teloscopic, and occupies little space. For transportation it can be packed with clothing in a large gripsack. It is made of Cherry throughout, in red shellac finish with nickel trimmings, and has patent springs at the head which render it impossible for the legs to become detached accidentally.

Price $3 00



TRIPLEX JUNIOR TRIPOD.

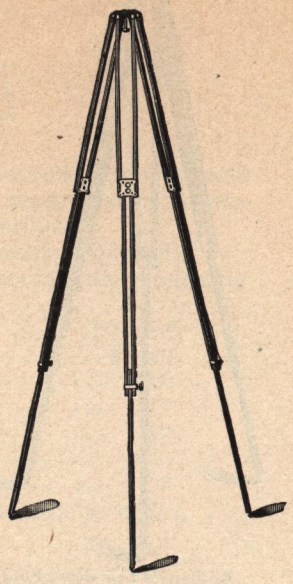
The same as above, but lighter and adapted for use with cameras of small sizes only.
It is light, compact, and rigid.

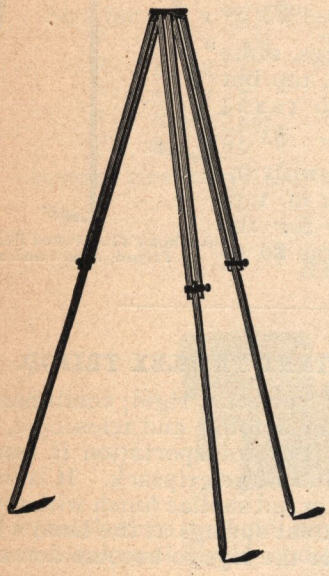
Price $2 75

THE BABY TRIPLEX TRIPOD.

Is similar to the Triplex Junior, but of still lighter weight. It has one sliding and one folding joint, and is just the thing for small hand camera work.

Price.....$2 00





THE BRIGHTON TRIPOD.

Is a thoroughly practical and efficient tripod, manufactured from selected stock, and finished in plain nickel.

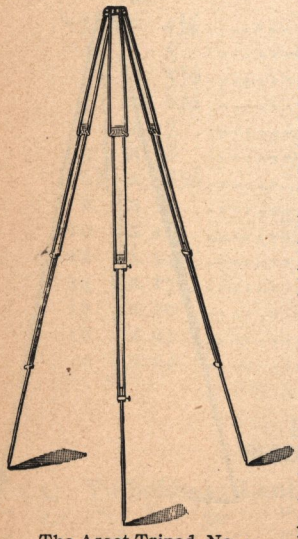
It is light, strong, and inexpensive, and capitally adapted for use with hand cameras.

Price.....$1 50

THE ASCOT TRIPOD No. 1.

This Tripod is made with especial reference to extreme lightness and compactness. It is constructed of selected stock, and while its bulk and weight have been kept at a minimum, it is durable and remarkably rigid in use. It is finished in yellow shellac with brass trimmings.

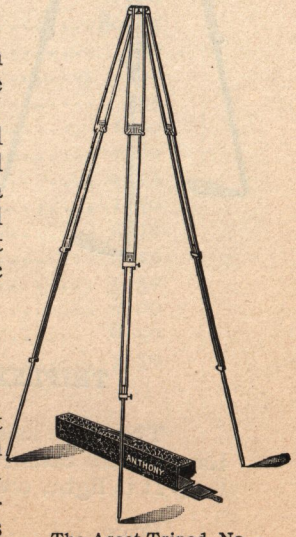
Price.....$3.75



The Ascot Tripod, No. 1.

THE ASCOT TRIPOD No. 2.

Is the same as above, but finished in red shellac with nickel trimmings, and is provided with a handsome carrying case as shown in cut—its outside dimensions being 2 x 2 x 17 inches. Price, including case.....$5 00



The Ascot Tripod, No. 2.

WYNNE'S INFALLIBLE PRINT METER.

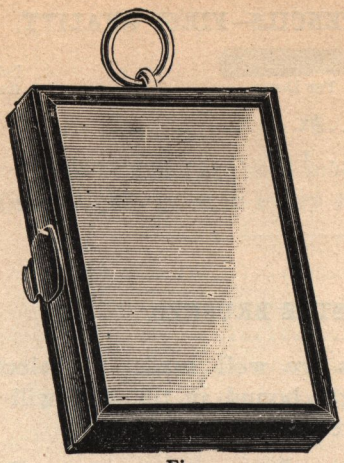


Fig. 1.

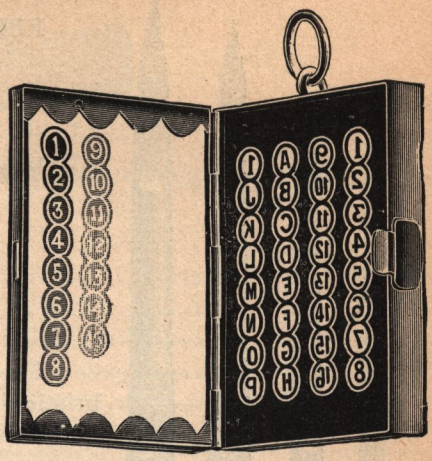


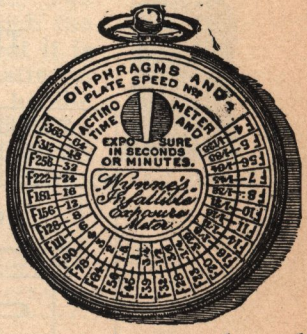
Fig. 2.

A simple and accurate little instrument for automatically indicating the correct exposure required for printing platinotype, carbon, and all kinds of photographic prints, with absolute accuracy, and without any calculation whatever, and for testing the speeds of photographic plates and papers.

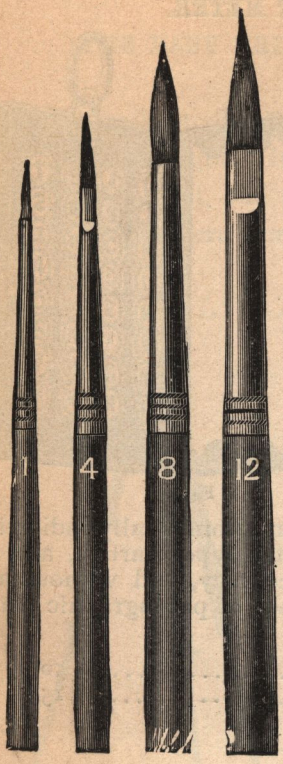
Price..... $2 50
Extra package Sensitized Paper..... 15

WYNNE'S INFALLIBLE EXPOSURE METER.

These four conditions governing exposure are all taken into account. These conditions are: (1) The intensity of the light which illuminates the subject; (2) diaphragm or stop employed; (3) the character of the subject; (4) the sensitiveness of the plate used. The first is determined by the time taken for the sensitive paper in the actinometer to color to standard tints. This varies from two or three seconds to a minute or so, and is called the actinometer time. The instrument is marked with the diaphragm numbers. A table of the relative sensitiveness of the various brands of plates is supplied with each instrument. To calculate the correct exposure, one moment only is necessary. The movable scale of the instrument is turned until the actinometer time in seconds upon the exposure scale is opposite the diaphragm number of the plate. The correct exposure in seconds and fractions of seconds will be found against each stop, from the largest to the smallest.



Price, with full instructions, in handsome solid nickel case..$2 50
In Locket Size, silver..... 3 00
In Locket Size, 14-karat rolled gold..... 4 50
Extra tins sensitized paper..... 15
Extra dials and glasses..... 25
Extra Book of Instructions..... 05
Extra Speed Cards..... 05



RED SABLE PENCILS—FIRST QUALITY.

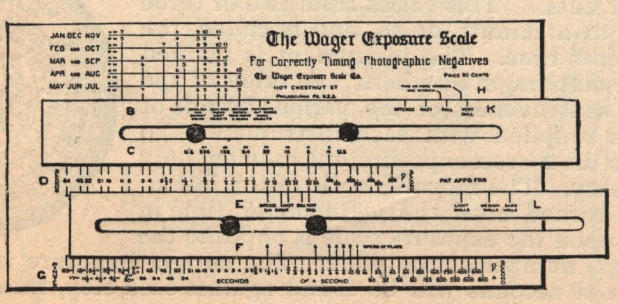
Size. Nos.	Price Per Dozen.	Price Each.
1 to 6	$1 00	$0 10
7 to 12	1 25	12

BRISTLE BRUSHES.

These brushes are well made, of selected bristles, are strongly bound in tin, and will be found thoroughly reliable.

Size,	Price Per Dozen.	Price Each.
1 in.	$1 20	$0 12
1½ "	1 80	20
2 "	2 40	25
2½ "	3 00	30
3 "	3 60	40

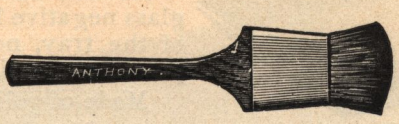
THE WAGER EXPOSURE SCALE.



Is absolutely accurate under all conditions. Practically instantaneous. Adapted to all subjects and extremely simple in its manipulations. It can be carried in the vest pocket. Full directions are on every scale.

	Price.
Made of paper, by mail, postpaid	$0 50
Made of aluminum, handsomely finished	1 00

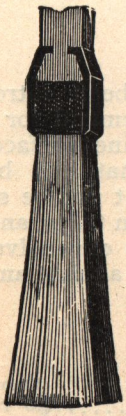
CAMEL'S HAIR DUSTERS.



These brushes are well made, of selected stock, strongly bound in tin, and thoroughly good in every way.

Size.	Per Dozen.	Each.
1 in	$2 25	$0 20
1½ "	3 45	30
2 "	5 00	45
2½ "	7 40	65
3 "	9 25	80

HARD RUBBER SET AND BOUND PHOTOGRAPHERS' BRUSHES.



The bristles of these brushes are secured to the handle by first immersing the butts, or stiff ends, in soft rubber ; they are then put upon the end of the handle,—not around it, as in the old way; a belt of rubber combined with metal is wound around the whole, covering the butt of the bristles, and conforming to a groove running around the adjoining end of the handle. The portion of the brush covered with rubber and metal is then placed in a die and vulcanized, or hardened, under heat and pressure. The result is a solid vulcanized head, in which the bristles are so thoroughly imbedded that it is impossible for them to get loose, no matter in what solution they may be used. The handle being dovetailed into the head (see sectional illustration) is also firmly secured. In addition to superior mode of manufacture these brushes contain more and better bristles than the ordinary kind.

Width.				Each.
1	inch.	Camel's Hair		$0 38
1½	"	"	"	57
2	"	"	"	85
2½	"	"	"	1 10
3	"	"	"	1 50

Width.				Each.
1	inch.	Bristle, paste		$0 20
1½	"	"	"	25
2	"	"	"	35
2½	"	"	"	45
3	"	"	"	50
4	"	"	"	85

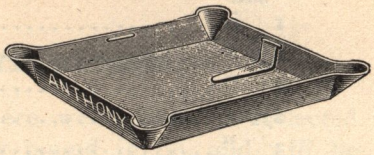
ECONOMY RUBBER TRAY.

As will be seen by the cut, the glass negative lies flat on the bottom of the tray, necessitating the least possible quantity of developer.

Made of polished hard rubber

Size.	Price.	Size.	Price.	Size.	Price.
3¼ x 4¼	$0 25	5½ x 8½	$0 50	8½ x 10½	$0 90
4 x 5	25	7 x 9	65		

ALUMINUM TRAY WITH PLATE LIFTER.



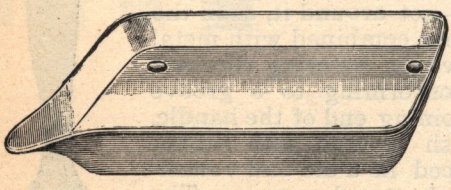
This is a new and handy form of combined tray and lifting device by which the fingers need never be put into the developer.

The tray is made of very heavy aluminum, which insures durability, and the lifting device may be attached either at end or at side by slipping through the slot. Pressure of the thumb on the outside of this lever lifts the plate clear of developer.

Aluminum Trays will not stand salts of any kind and should not be used to tone or develop paper.

Size	Price.	Size.	Price.
3¼ x 4½	$0 18	7 x 9	$0 60
4 x 5	20	8 x 10	80
5 x 8	40		

ÉLITE PORCELAIN LINED TRAYS.



These trays have been introduced to meet the demand for a strong tray with a fine surface, such as porcelain, that can be readily kept clean, yet not be so fragile as the porcelain trays, and at the same time less expensive. These trays will fulfil the above requirements, and are proof against any acids used in the photographic business.

In ordering please state number.

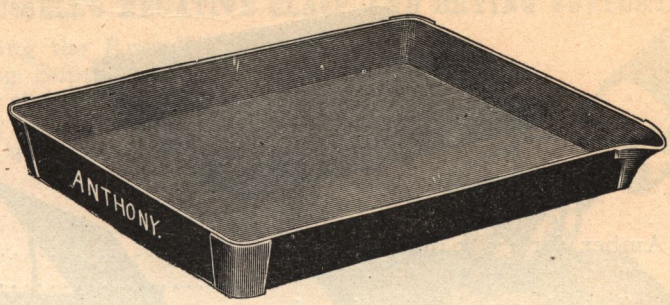
PRICES:

No.		For Plate.	Inches deep.	Each.
1	4⅜ x 5⅜	4 x 5	1¼	$0 25
2	5¼ x 7⅜	5 x 7	1½	50
3	5½ x 8¾	5 x 8	1½	63
4	7¼ x 9½	7 x 9	1⅝	75
5	8¾ x 10⅝	8 x 10	1¾	1 13
6	10¼ x 12½	10 x 12	2	1 70
7	12½ x 15½	11 x 14	2¼	2 25
8	13½ x 17½	12 x 16	2⅜	2 63
9	15 x 17¾	14 x 17	2½	3 75
10	17 x 21	16 x 20	2⅝	4 50
11	19 x 23	18 x 22	2¾	6 00
12	21 x 25	20 x 24	3	7 00
13	23 x 28	22 x 27	3½	9 00

ARGO TRAYS.

3¼ x 4¼	$0 12	5 x 7	$0 35	6½ x 8½	$0 70
4 x 5	17	5 x 8	39	8 x 10	95

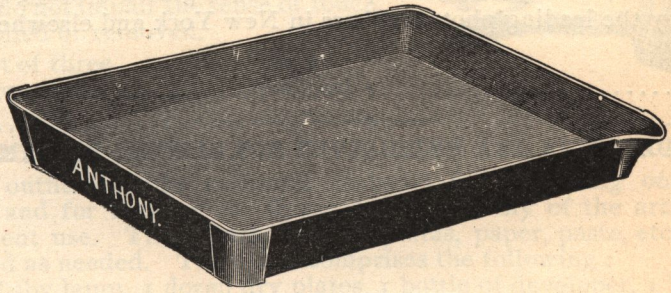
THE EMPIRE HARD RUBBER TRAYS.



These trays are deeper than any heretofore offered to the trade in the smaller sizes, and as deep as any in the larger sizes. Following are the sizes and prices :

Size.	Price.	Size.	Price.
4¼ x 5¼	$0 45	7 x 9	$0 85
5¼ x 7¼	55	8½ x 10½	1 10
5½ x 8½	65		

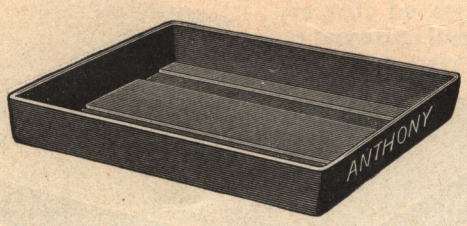
HARD RUBBER TRAYS.



These goods, manufactured of genuine hard rubber, have been long and favorably known to the profession, and met with universal approval.

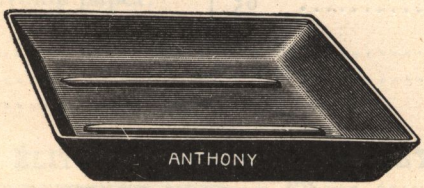
Size.	Price.
4¼ x 5¼	$0 60
5¼ x 7¼	75
5½ x 8½	86
7 x 9	1 05
8½ x 10½	1 35
10¾ x 12¾	2 00
12 x 16	3 10
15 x 19	5 20
18 x 22	6 60
19 x 24	7 40
21 x 26	9 35

GLASS TRAYS.



Clear or Amber, for	4 x 5 plates or under	$0 16
" " " "	5 x 8 " " "	25
" " " "	7 x 9 " " "	40
" " " "	8 x 10 " " "	50

LINEN PREPARED TRAYS.



This tray is especially adapted for toning and washing prints, and is used by the leading photographers in New York and elsewhere.

Size.		Price.
17 x 21	4 in. deep	$4 00
20 x 24	4 "	5 00
21 x 27	4 "	6 00

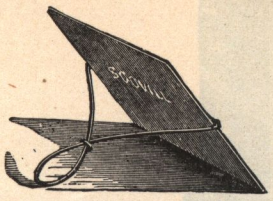
PORCELAIN TRAYS.

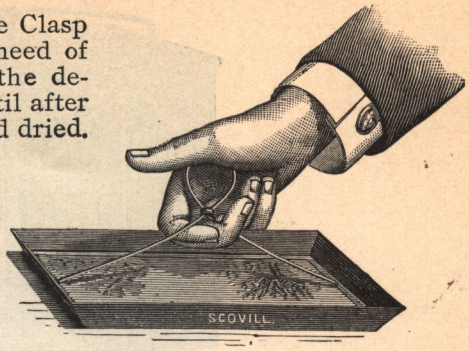
The dimensions given are for inside the bottom of the tray.

Size.	Shallow.	Deep.
5 x 7	$ 0 44	$ 0 62
5½ x 8½	60	75
7 x 9	66	82
8 x 10	82	1 00
10 x 12	1 32	1 66
11 x 14	2 16	2 64
14 x 17	5 10	6 00
16 x 20	6 28	8 00
19 x 23	11 60	14 50
20 x 24	12 88	16 00

RUSSELL'S NEGATIVE CLASP AND DRYING SUPPORT.

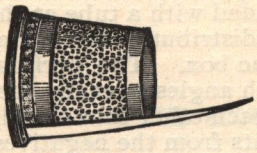
By using the Russell Negative Clasp and Drying Support, there is no need of wetting or staining the fingers in the developer, or of touching a plate until after it has been developed, varnished and dried.





Adaptable for all sizes, from 3¼ x 4¼ to 8 x 10 inclusive.

Price..... .....each, 15 cents.



THE EFFICIENT PLATE LIFTER.

This plate lifter is very similar to an ordinary open end thimble, with a pointed piece of metal soldered securely to it, as shown in the illustration.

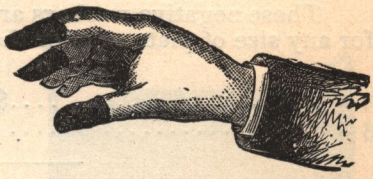
Price.....each, $0 15

PURE RUBBER FINGER TIPS.

SPECIALLY MADE FOR PHOTO USE. A PERFECT PROTECTION AND RELIEF FOR THE FINGERS.

They do not impair the sense of touch. Easily applied or removed.

Per set of three.....$0 15
Per dozen sets..... 1 50



COMPLETE OUTFITS FOR DEVELOPING AND PRINTING.

Each outfit contains sufficient material for producing one dozen negatives and for making one dozen prints. Many of the articles are of permanent use. The others, such as plates, paper, paste, etc., can be replenished as needed. The outfit comprises the following :

One Ruby lamp, 1 dozen dry plates, 1 bottle of developer, 1 lb. hypo, 1 tray for developer, 1 tray for hypo, 1 printing frame, 1 dozen sheets paper, 1 bottle Anthony's toning and fixing solution, 1 papier mâché tray for toning, 1 brush and paste, and 1 dozen card mounts.

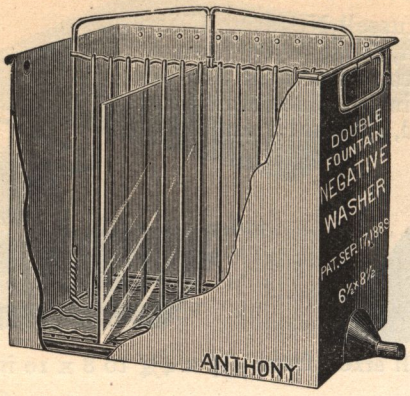
Outfit A.	For 4	x 5	.... $3 40	Outfit D.	For 5	x 8	....$4 50
" B.	" 4¼	x 6½	.... 4 00	" E.	" 6½	x 8½	.... 5 25
" C.	" 5	x 7	.... 4 30	" F.	" 8	x 10	.... 6 75

THE E. A. DEVELOPING AND PRINTING OUTFITS.

One dozen Rex card mounts, 1 dozen ferro-prussiate paper, 1 2-oz. measure glass, 1 amateur printing frame, 6 Eikonogen developing powders, 1 Little Giant Ruby lamp, 3 trays, 1 lb. hypo, 1 paste tube, 1 package potassium bromide, 1 instruction book. Packed in a paper box.

	Price.		Price.
Outfit for plates,	2½ x 2½....$1 50	Outfit for plates, 4	x 5 ....$1 50
" "	3¼ x 4¼.... 1 50	" "	4¼ x 4¼.... 1 50
" "	3½ x 3½.... 1 50		

MOODY'S DOUBLE FOUNTAIN NEGATIVE WASHER.



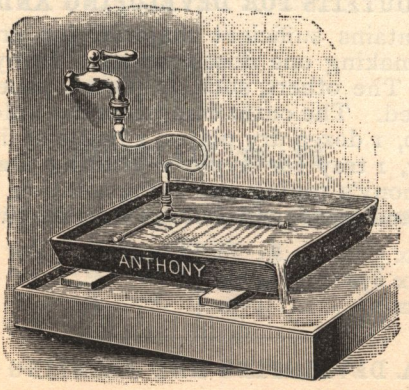
This is a new and thoroughly practical arrangement for washing negatives and consists of a box of heavy zinc provided with a tube at the bottom, for attachment of rubber hose, which distributes the water through perforated pipes running lengthwise of the box. The perforations are on the inside of pipes and placed at such angles to each other as to cause the streams of water in rising to cross each other thus doubly insuring a perfect elimination of free chemical agents from the negatives.

A removable wire rack, as shown in the cut, serves to hold the negatives in an upright position within the box.

These negative washers are made in four sizes only but may be used for any size of plate smaller than the one named without adjustment.

	Price.		Price.
4 x 5	$1 75	6½ x 8½	$2 50
5 x 8	2 25	8 x 10	3 00

DUPLEX PRINT WASHER.

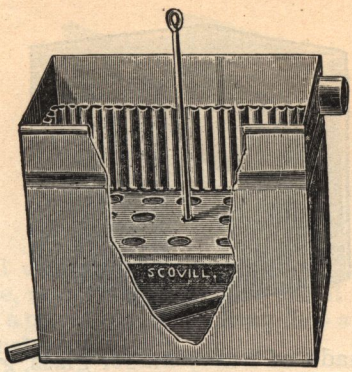


The handiest washing arrangement for prints. May be adapted to any large tray or dish. Is furnished with hose for immediate attachment to the faucet. A continuous change of water is insured, and rapid washing is easily effected. Use your own tray; any size from 11 x 14 up will do.

They are cheaper than trays or sinks for washing prints, and much more effectual in removing every trace of hypo.

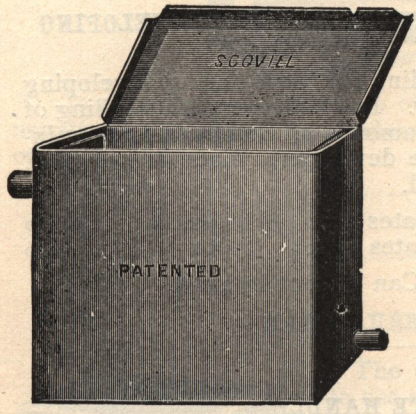
Price.....$2 00

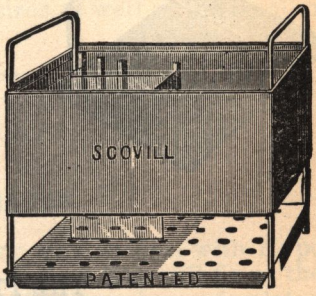
THE SIMPLEX WASHING BOX.



No. 1 ..... $1 00
No. 2 ..... 1 25

THE SCOVILL NEGATIVE WASHING BOXES.





(PATENTED.)

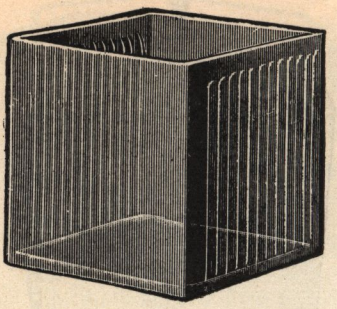
The Scovill Negative Washing Boxes are now made adaptable and so that plates may be taken out without putting the fingers in the washing water. (See illustration.) The perforated bottom prevents water from passing through the box with too great force, and distributes it so that every plate and every portion of a plate is equally washed.

PRICE LIST:

(ADAPTABLE.)					Each.
For 4 x 5	Plates and smaller sizes.				$1 75
" 4¼ x 5½	"	"	"		1 90
" 4¼ x 6½	"	"	"		2 00
" 5 x 7	"	"	"		2 00
" 5 x 8	"	"	"		2 00
" 6½ x 8½	"	"	"		2 00
" 8 x 10	"	"	"		2 25
8 x 10 Adjustable Washing Box					4 00

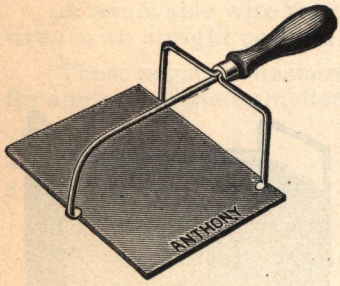
Adjustable for 6½x8½, 5x8, 5x7, 4x5, 3¼x4¼ plates. ***All sizes to be washed at once.***

AMBER GLASS FIXING BATHS.



These baths are made of heavy amber glass, grooved to hold plates of the several sizes for which they are intended. They are easily kept clean and can not warp or get out of shape.

	Price.
No. 1, for 12 4x5 plates	$1 25
No. 2, for 12 5x7 plates, or 18 4x5 plates	1 50



ANTHONY'S ADJUSTABLE DEVELOPING FORK.

For holding the plate during developing and washing. It entirely prevents soiling of hands and removes all danger of hypo mixing with the developer. Made in two sizes, nickel-plated.

No. 1, for Plates 3¼x4¼ to 5x8	$0 60
No. 2, for Plates 4 x5 to 8x10	90

Can be sent by mail.

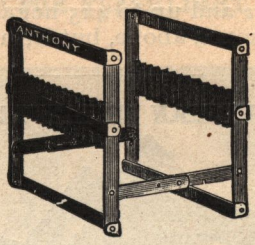
THE PERFECT PLATE HANDLE.

It is snapped on with a single downward pressure, and released as easily. Does not raise the plate in the developing tray. Does not scratch the film when being put on. Does not touch the film when on. Makes a most convenient drying support when the negative is fixed and finally washed.

Made of spring wire, handsomely nickeled, in four sizes. Size No. 1 is for plates 3¼x4¼, 4¼x6½, or any plates having a 4¼-inch measurement. Size No. 2 is for 4x5, 5x7, 5x8, or any plates having a 5-inch measurement. Size No. 3 is for 6½x8½, 4¼x6½, or any plates having a 6½-inch measurement. Size No. 4 is for 5x8, 8x10, or any plates having an 8-inch measurement. Larger sizes made to order.

Price.....$0 25

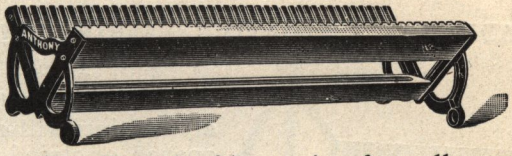
COES' NEGATIVE WASHING RACK.



A convenient and compact adjustable washing rack for negatives which, when not in use, may be folded into small space. It is made of metal, is kept open by a metal button locking into a slot. Takes nagatives from 3¼x4¼ to 5x7 inclusive.

Price.....$1 00

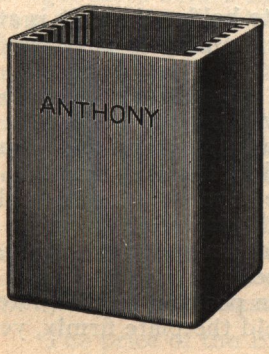
BRIGHTON NEGATIVE RACK.



Is a strong, well built rack of large size, for gallery use. It holds 42 negatives, and will accommodate the largest sizes as well as the smaller ones.

Price.....$1 25

HARD RUBBER FIXING BATHS.



The one satisfactory way to deal with Hypo is to use a fixing box. Such a box will fix at the same time a considerable number of plates. Negatives being on edge there is less liability of scratching than where a tray is used, and a further advantage lies in the fact that where old Hypo is used the impurities settle in the bottom of the box and do not come in contact with plates.

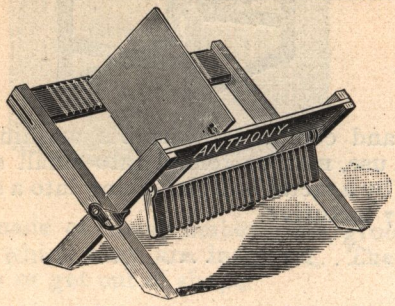
Some say that tank development is the one and only perfect way for Studio work. For such, a fixing bath is the first requirement. But do not waste time in trying tank development in a bath that has been once used for Hypo.

3¼ x 4¼	$2 10
4 x 5	2 25
4¼ x 6½	2 40
5 x 7	2 75
5 x 8	3 00
6½ x 8½	3 70
8 x 10	4 20

ANTHONY'S FOLDING NEGATIVE RACK.

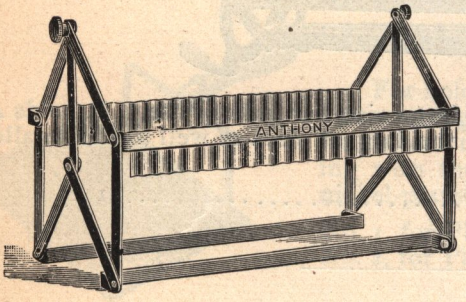
Small size, for twelve 2x2 and up to 4x5 negatives.....$0 25
Same as larger one mentioned above, but with grooves for 36 plates, 60

COLUMBIAN NEGATIVE RACK.



Same size as above but made up in the plain wood, without any finish.
Price.....$0 25

ADJUSTABLE NEGATIVE WASHING RACK.



This negative rack is made entirely of metal, and is fastened at the joints with rivets. It can be opened or closed to take any sized negative from 3¼ to 4¼ to 5 x 7 inclusive. The joints are held in place after being opened to the proper size by binding nuts at either end.

Price.....$1 25

FRANKLIN DEVELOPING CLIPS.

On removing the exposed plate from the plate holder the Clip is attached, and is not removed therefrom until after the plate is developed, fixed and washed.

As the Clips stand above the solutions in the trays the plates can be handled during development and fixing without wetting the fingers.

The development is under perfect control at all times, and the negative can be thoroughly manipulated and developed locally if desired.

If development is prolonged, the tray can be covered to exclude all light, as the Clips do not stand above the level of the top of the tray.

In washing negatives, the negative rests face down supported by the Clip, and entirely protected from injury and sediment.

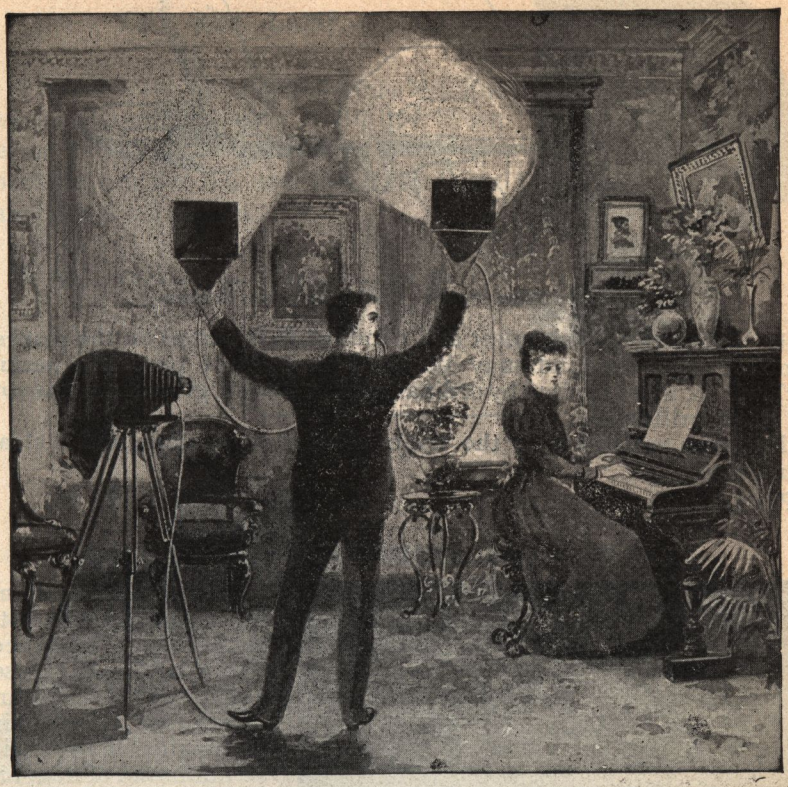
The natural spring of the Clip itself holds it in position on the plate, and the peculiar shape of the grips on each end hold the plate firmly, yet the Clip can be instantly removed when desired.

The Franklin Developing Clips are put up in packages of one-half dozen, with illustrated directions for their use.

SIZES AND PRICES.

No. 3½, for 3½x3½ plates.....50c. per pkg.
No. 4, for 4x5 Plates and Lantern Slides.....50c. per pkg.
Other sizes in preparation.

THE BYRON LAMP FOR FLASHLIGHT PHOTOGRAPHY.



"Most lamps procurable have inadequate illuminating power. They either do not consume magnesium enough, or not quickly or effectively. Even in interiors, without life, it is an advantage to use a powerful light to "get there before the smoke does," especially if the currents of air are from behind, and, with people, the confidence a good light gives the operator is of great assistance. He can then see that the people are still and used to the light before commencing the exposure. Artistic effects are best obtained by light of larger area, and this is the more easily effected by having more than one point or source of light, and with one well forward to one side—moving them during exposure—modeling and relief is obtained. The following points should be noted in the selection of a lamp:

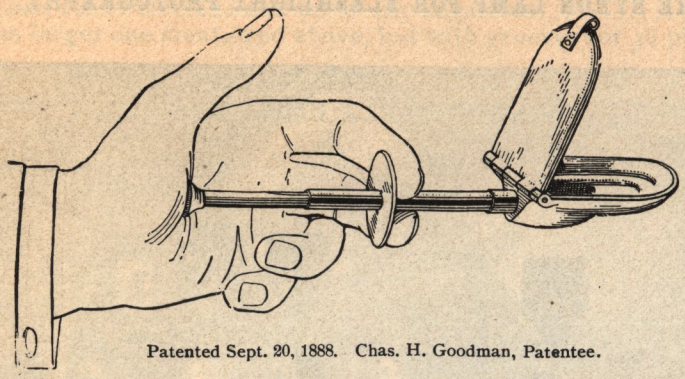
The Byron is a duplex lamp, and is furnished in pairs for artistic lighting. It packs with your traps, it gets in action quickly, it keeps in action easily, it is powerful yet not wasteful, it is safe and certain. It is the cheapest high-class lamp on the market.

The price of the Bryon lamp is as follows:

OUTFIT CONSISTING OF

Two lamps, in a case..... Reflector, to slide in groove back of lamp..... Flask for magnesium..... Flask for alcohol, and..... Rubber Tubing.....	$8 00

THE "DEWEY" INSTANTANEOUS FLASH LAMP.



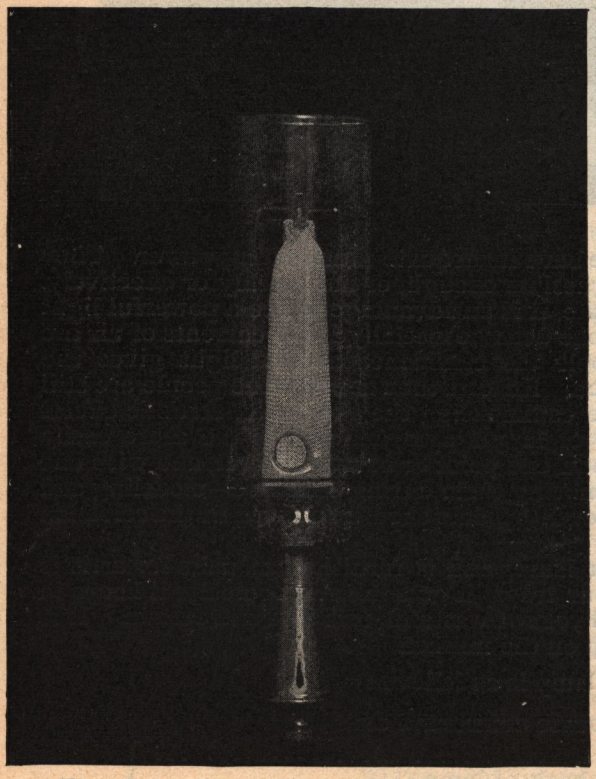
Patented Sept. 20, 1888. Chas. H. Goodman, Patentee.

This is one of the simplest and handiest flash lamps on the market. Any good flash compound may be used in it (not pure magnesium powder), which, when ignited by ordinary parlor match, gives instantaneous flash of great brilliancy.

It dispenses entirely with the use of alcohol or gasoline, and is clean, quick and sure.

Price.....$1 00

CYKO HYPER-INCANDESCENT GAS LAMP.



Both the professional and amateur photographer have long been seeking a lamp to be used in exposing Developing Papers, that would afford the maximum light with the minimum of heat and expense for operating.

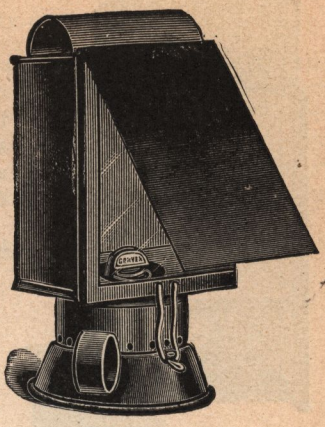
The Cyko Hyper-Incandescent Gas Lamp is unquestionably the finest lamp for this purpose on the market, and its remarkably low price and ease of installment and adjustment put it within the reach of all classes of photographers. The Cyko Lamp burns 80% Air and 20% Gas, affording a light of 300 candle power, and is equally good for Artificial or Natural Gas, the cost being about ¾ of a cent per hour with Artificial Gas, and ¼ of a cent per hour with Natural Gas.

The Cyko Lamp is superior to a four-light cluster of Arc lamps or five ordinary Welsbach lamps, and outshines fifteen incandescent electric bulbs.

The Cyko lamp is made of first class material, and strong enough to last a life-time. It is very simple to regulate and keep in order.

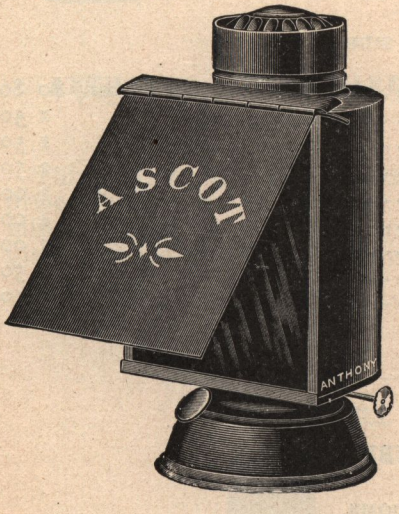
Price $1 50

THE REX LAMP.



A small, compact Ruby Lamp, burning kerosene oil. The wick is controlled by an exterior thumb screw. It is fitted with detachable can for oil, and the Ruby Glass measures 2⅞ x 4 inches.

Price.....$0 50



THE ASCOT LAMP

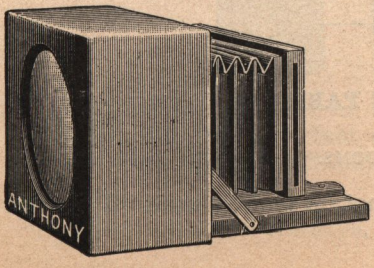
is fitted with both Orange and Ruby glass 4 x 5-inch size, placed in separate grooves. It burns kerosene oil; wick is controlled from the outside; and back of lamp, being semicircular, serves as a good reflector. All seams are lapped. It is enameled in black and has detachable oil can.

Price.....$0 75

ANTHONY'S LANTERNOSCOPE.

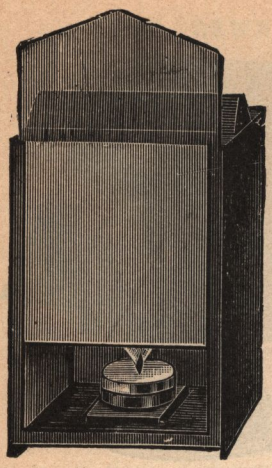
This is a novel and beautiful contrivance for viewing lantern slides without the aid of the lantern.

It is, as shown in cut, provided with a magnifying lens at one end, after the manner of the graphoscope, while the slide is inserted in the other end against a ground glass, and may be focused by means of the extension bellows. When not in use, it folds into small compass.



It is made in finely finished mahogany, and is an instrument which every amateur should possess.

Price.....$10 00



LITTLE GIANT CANDLE LANTERN.

It is light, portable, and especially adapted to the wants of the amateur. Its construction is simplicity itself; the light is brilliant and steady; and the lantern can be packed and carried without fear of soiling by leakage of grease or oil.

Extra lights, ready for immediate use in the lantern, may be obtained at any time.

Price.....$0 30
Extra lights, each..... 02

PORCELAIN GLASS.

GROUND ONE SIDE.

Size.			
4 x 5	per dozen,	$0	80
4¼ x 6½	"	1	50
5 x 7	"	1	50
5 x 8	"	2	50
6½ x 8½	"	3	00
8 x 10	"	4	00
10 x 12	"	5	00
11 x 14	"	6	50
14 x 17	"	9	00

ORANGE AND RUBY GLASS.

FOR DARK-ROOMS.

4 x 5	per light,	$0	15
5 x 7	"		20
6½ x 8½	"		25
8 x 10	"		30
10 x 12	"		40
11 x 14	"		50

RUBY AND ORANGE FABRIC.

FOR USE IN DARK-ROOMS.

Owing to length of package this cannot be sent by mail. Price per square yard, either shade, 50 cents.

ARGAND GAS BURNER WITH RUBY CHIMNEY.

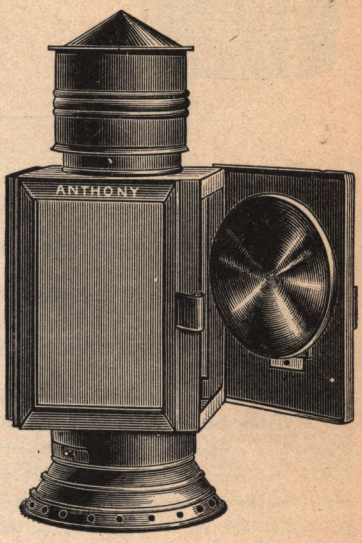
FOR ATTACHMENT TO ANY ORDINARY GAS BRACKET.

By the cut it will be seen that the patent Argand Burner has been so modified as to intercept the downward radiation of the light, and protection above is provided in the same manner as with the oil lamp. The chimneys of both gas and oil lamps are not made of the ordinary ruby glass, but of what is known in the trade as copper-flashed.

Price of the Ruby Gas Burner and Chimney..$2 50
Extra Ruby Chimneys..... 30

These burners are also manufactured on metal stands with a connection for rubber hose, by which they may be used at any distance from the gas bracket.

Stand, extra....$0 50



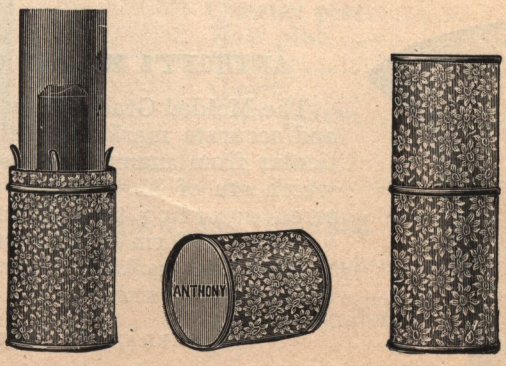
ANTHONY'S CLIMAX DARK-ROOM LANTERN.

(PATENTED)

This is truly the best lantern for its price to be found. It has three large illuminating surfaces and reflector. The glass is of the correct non-actinic hue.

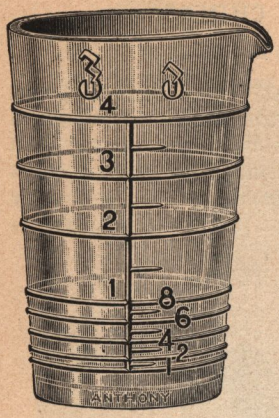
Price.....$2 00

THE TISDELL CANDLE RUBY LIGHT.



Lighted by one-half of a common sperm candle. It is, without exception, the most perfect and petite tourist's developing lamp ever introduced in the photographic market.

Price, complete.....$1 00
Extra Ruby Chimneys, each..... 30



TUMBLER GRADUATE.

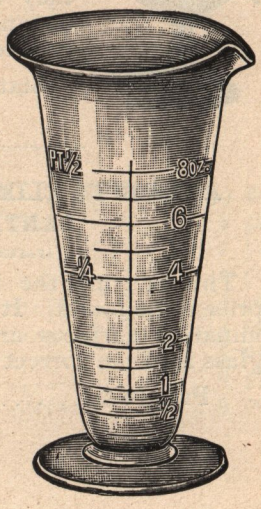
Is a low priced graduate of excellent make and material. It is manufactured in three sizes only, as noted below. Its figures are in relief on the surface.

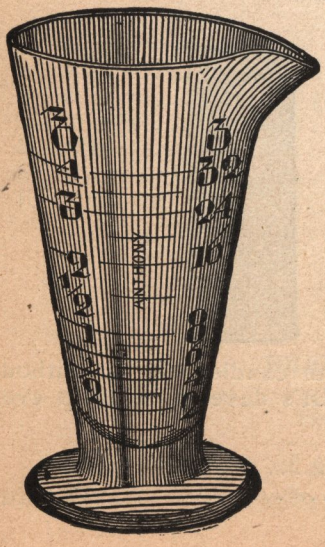
2	ounces	$0 08
4	"	10
8	"	20
16	"	35

CLIMAX GRADUATES.

The measuring lines of this graduate are sunk into the glass and the figures are raised, thus permitting of easy reading, even in the dark room.

1	ounce	$0 15
2	"	16
4	"	20
8	"	30
16	"	40



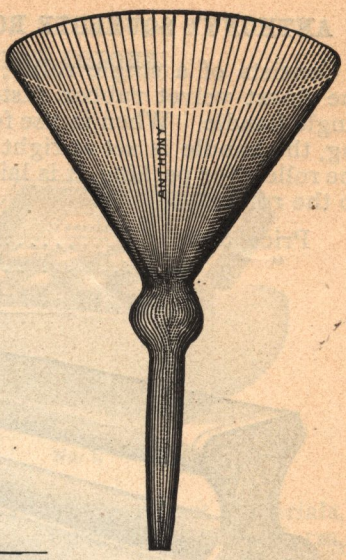


ANTHONY'S MOLDED GRADUATES.

The Molded Graduates are of uniform size and accurate markings, differing in this particular from many of those ordinarily sold which are of blown glass, and, being registered according to a given rule, the least variation in form or thickness of the graduate renders the marking inaccurate. Made in the following sizes:

WARRANTED ACCURATE

Minim			$0 25	6	ounce		$0 35
2	dram		25	8	"		45
½	ounce		17	12	"		55
1	"		17	16	"		65
2	"		20	24	"		80
3	"		25	32	"		1 15
4	"		30	64	"		4 00

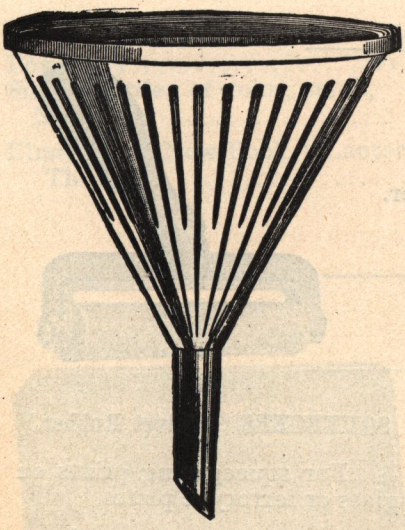


ANTHONY'S COMBINED BULB FUNNEL AND FILTER.

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, caused by the cotton being compressed too tightly.

The sizes and prices are as follows:

Half pint	$0 35
Pint	40
Quart	50
Half gallon	1 00



THE PATENT FLUTED FUNNEL.

These are the best glass funnels made. They are very strong; are made in molds; have solid glass ribs on the inside, running vertically, as shown in the 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 provide for the escape of air and to prevent overflowing.

Quarter pint	$0 15
Half pint	15
Pint	20
Quart	30
Two quarts	45

PLAIN GLASS FUNNELS.

Quarter pint	$0 15	Two quarts	$0 40
Half pint	15	Gallon	75
Pint	20	Two gallons	1 25
Quart	25		

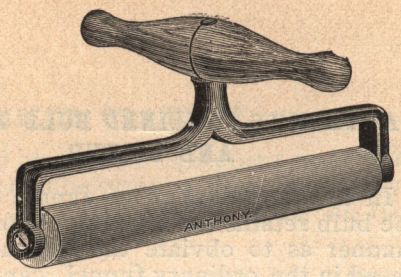
HARD RUBBER FUNNELS.

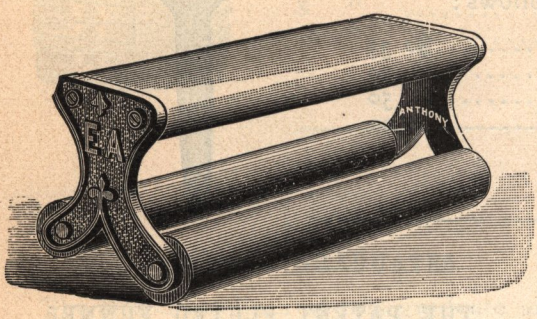
No. 0.	Quarter pint	$0 40	No. 2.	Pint	$0 55
" 1.	Half pint	50	" 3.	Quart	60

ANTHONY'S SQUEEGEE ROLLER.

Consists of a single roller, made of the finest velvet rubber fastened to a single handle. When in use for mounting, the handle is set at right angles to the roller; for packing, it is laid parallel to the roller.

Price, 6 in.....$0 75
" 9 " 1 00





THE SUCCESS PRINT MOUNTER.

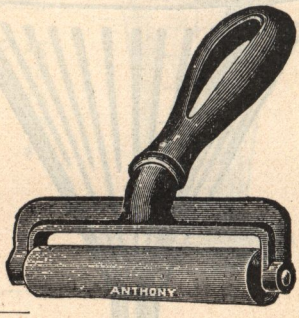
The accompanying illustration describes it fully.

Price, 6 in.....$0 60
" 9 in..... 80
" 12 in..... 1 00

THE AZA PRINT MOUNTER.

A strong, light, and inexpensive mounter.

Price.....$0 20



SQUEEGEES. (Velvet Rubber.)

For squeegeeing prints on glass or ferrotype plates.

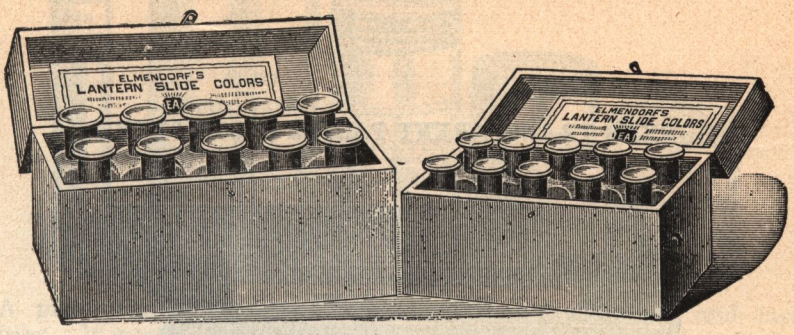
Price, 6 in.....$0 25
" 8 in..... 40
" 12 in..... 50

THE A. & S. SQUEEGEE ROLLER.

SUPERIOR TO ANYTHING IN THE MARKET.

No. 1, 8 inch.....$1 00
No. 2, 12 inch..... 1 50

ELMENDORF'S LANTERN SLIDE COLORS.



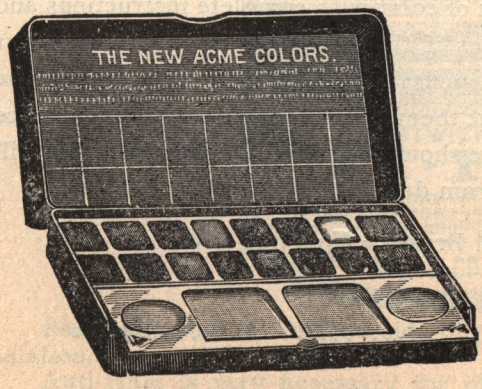
No. 2. No. 1.

These colors are very carefully prepared from the purest materials, and have been proven permanent. They are put up in concentrated form, each box containing 10 bottles of the following colors:

Light yellow, dark yellow, vermilion, brown, orange, maroon, rose, blue No. 1, violet, blue No. 2.

	Price.		Price.
Box No. 1	$1 50	Box No. 2	$2 50
Single bottles of color, small, No. 1	20	Single bottles of color, large, No. 2	30

Elmendorf's New Book, "Lantern Slides: How to Make and Color Them" $1 00



ACME TRANSPARENT WATER COLORS.

Are adapted to any and all kinds of paper, and are specially intended for views, lantern slides, transferotypes, transparencies, engravings, artotypes, and prints. They are easy of application, economical, and of great permanency. Each color is put up in separate double pans, and each set of colors in a neat box.

	Price.
Large box, containing 16 colors, palette, and instructions	$2 50
Amateur box, containing 6 colors, palette, and instructions	1 00
Single pan of colors (except carmine, $0 35)	25
Acme medium, for gloss finish, per pan	35
Acme guide to coloring	25
Acme lantern slide colors	1 50

DUNNE'S TRANSPARENT PASTEL COLOR OUTFIT.

These colors are prepared especially for coloring Lantern Slides and all kinds of photographic papers, from a half tone print to the finest grades manufactured. No preparation is required except for Collodion Matte paper, for which we furnish a medium at 15 cents per bottle. This also removes color from Collodion Matte paper. They are called "Pastel Colors" because they give the soft mellow effect of the dry pastel, and are partially composed of pastel chalk, though they will not wash off the picture. They are the only transparent colors on the market that have the proper shades ready mixed to produce beautiful results.

The outfit consists of 12 tubes of color with complete instructions and any one can color pictures or slides if they follow them. Both Amateur and Artist will find the colors indispensable after trying them, and no one with a camera should be without them. For economy and convenience the 21-recess china covered palette should be used, as colors left over will be good until used, if preserved from dust.

Use Russian or Red Sable Oil Brushes, Nos. 1, 5, 7, 10.

Price of box of 12 tubes.....$1 00

ALBA PHOTO PASTE.

A pure white, soft paste, with exceptional adhering and lasting qualities. It works freely under the brush, and spreads with remarkable smoothness and uniformity.

It is the ideal photographic paste, being entirely free from deleterious chemicals which discolor prints.

PRICE :

	Each.	Dozen.	Gross.
2 ounce	$0 10	$0 70	$ 7 00
3 "	15	1 00	10 00
5 "	20	1 70	17 00
6 "	25	2 30	22 00
9 "	35	3 20	30 00
16 "	50	5 50	55 00
32 "	75	8 00	80 00
2 " tubes	10	1 20	12 00

ANTI-HALO.

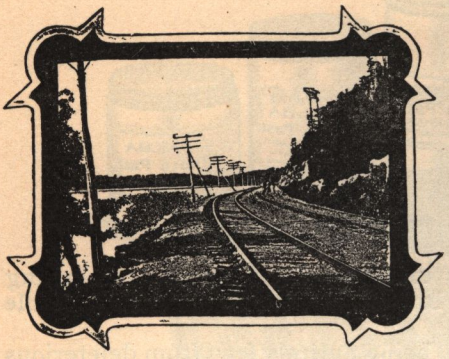
For application to the glass side of plates before exposure, to prevent halation.

Anti-Halo is very necessary for photographers, either amateur or professional ; plates backed with it produce negatives entirely free from halation, and its application is the essence of simplicity. By its use, windows, sky, and brilliant lights are more satisfactorily rendered.

Size No. 1	$0 60
" 2	1 00
By mail, either size, extra	10

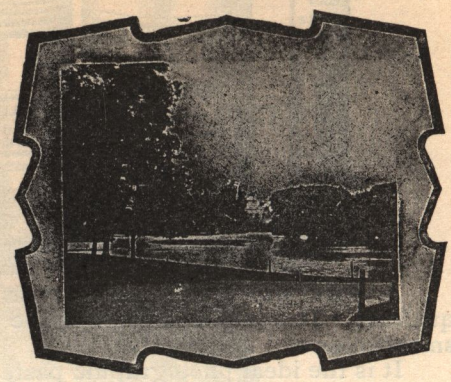
MANNING'S MASKS.

Reduced facsimile of a picture showing result obtained from one design. Assortments No. 1 or No. 2 produce this effect.



Assortments No. 1 and No. 2 can be used with the regular size printing frame according to the size of the negative, the picture produced being surrounded by black border with white margin in fancy design. These masks cut out all imperfect corners and edges of a negative.

Reduced facsimile of a picture showing result obtained from one design. Assortments No. 11 or No. 12 produce this effect.



Assortments No. 11 and No. 12 require a larger size printing frame than the size of the negative, but produce a picture the full size of the negative with a handsome border in black and white. The small expense necessary to procure a new printing frame is fully justified by the results obtained.

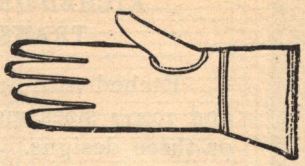
Assortment No. 3 contains 12 Masks, consisting of plain ovals, circles, squares and round corner squares, three graduated sizes of each design. Use with ordinary printing frame according to size of negative.

Assortment No. 5 contains 12 designs, consisting of star, shield, fancy circles and other irregular figures. This package is recommended as first-class and sure to please. Use with ordinary printing frame according to size of negative.

PRICE LIST.

SIZES MADE.	Assortment No. 1.	Assortment No. 2.	Assortment No. 3.	Assortment No. 5.	Assortment No. 11.	Assortment No 12.
2¼ x 3¼ 2½ x 4¼ 3½ x 3½ 3¼ x 4¼ 4¼ x 4¼ 4 x 5	25c. each size	25c. each size	Furnish for 4 x 5, 5 x 7, Cab. only 25c. each size	25c. each size	25c. each size	25c. each size
Cabinet 3⅞ x 5⅜	Nos. 1 and 3 only					
5 x 7 4¾ x 6½	25c. each size	25c. each size		25c. each size	35c. each size	35c. each size
6½ x 8½ 8 x 10	50c. each size	50c. each size		50c. each size		

RUBBER GLOVES.



JUST THE THING TO KEEP SILVER AND PYROGALLIC ACID OFF THE HANDS.

	Per Pair.
Sizes, Ladies' Long, Nos. 6, 7, 8 and 9, corresponding approximately to kid-glove sizes 5½, 6, 6½ and 7	$1 50
Sizes, Ladies' Short, Nos. 6, 7, 8 and 9	1 25
Sizes, Gents' Long, Nos. 10, 11, 12, 13, 14 and 15, corresponding approximately to kid-glove sizes 7½, 7¾, 8, 8¼, 8½ and 8¾ or 9	1 65
Sizes, Gents' Short, Nos. 10, 11, 12, 13, 14 and 15	1 35

WHITE RUBBER BULB AND TUBING FOR LARGE SHUTTERS AND FLASHLIGHT WORK.

This bulb has two openings and is fitted with a wooden plug at end opposite the tubing. Both Bulb and Shutter are of fine quality rubber and will keep their "life" well.

Price, complete	$0 35
Extra Tubing, per foot	05

RED RUBBER BULB AND TUBING FOR HAND CAMERA SHUTTERS.

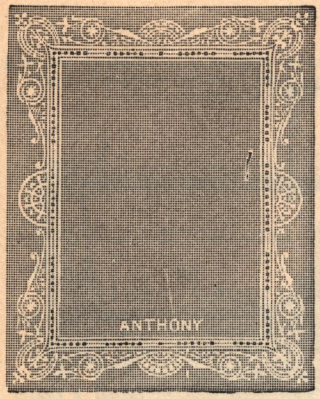
Price for Bulb and Tubing complete $0 25

THE NEGATIVE PRESERVER.

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.

Put up in boxes of 500 each, 25 in a package, and cost as follows:

For Negative.	Per 100.	Per 1000.
3¼ x 4½	$0 20	$1 75
4 x 5	22	2 00
4¼ x 5½	22	2 00
4¼ x 6½	25	2 25
5 x 7	28	2 50
5 x 8	30	2 75
6½ x 8½	40	3 50
8 x 10	50	4 50
10 x 12	1 25	....
11 x 14	1 50	....
14 x 17	1 75	....
18 x 22	3 20	....



ETCHED GROUND GLASS FOR TRANSPARENCIES.

Etched with figured borders. The 8x10 and 10x12 sizes may be had in either of two or three designs. The other sizes are supplied in but one pattern.

6½	x	8½	glass for picture		4¼	x	6½ ..	$0 33
8	x	10	" " "		5	x	7 ..	42
10	x	12	" " "		7	x	9 ..	63
11	x	14	" " "		6½	x	9½ ..	75

MUD GROUND GLASS FOR TRANSPARENCIES OR CAMERAS.

This glass is of the finest quality photo glass, carefully selected and absolutely flat, and is ground by a new process by the use of a fine quality of mud, which gives a most admirable texture to the ground glass, making it practically free from grain, the advantage of which is, of course, obvious. It is the best and most satisfactory ground glass on the market.

Single Thick.				Per Light.
4	x	5		$0 80
4¼	x	6½		10
5	x	7		14
5	x	8		14
6½	x	8½		18
8	x	10		26
10	x	12		40
11	x	14		50

GROUND GLASS.

FOR CAMERAS.

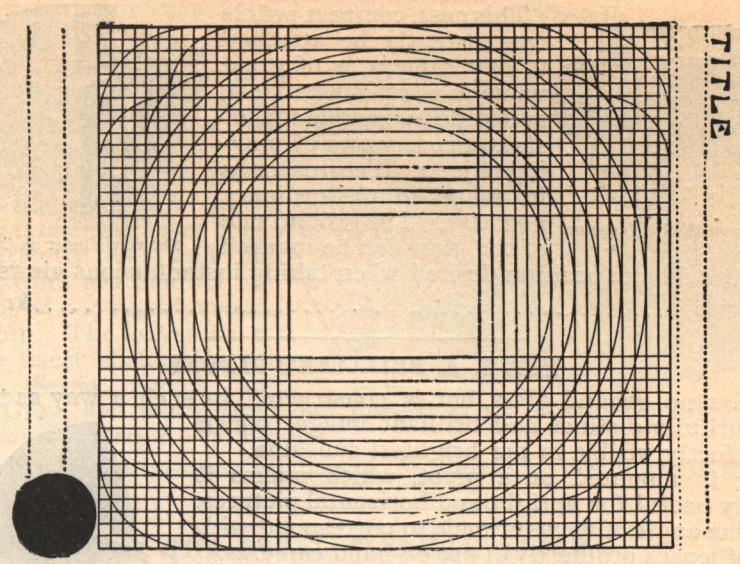
10 x 10	inches		each,	$0 75
12 x 12	"		"	1 00
14 x 14	"		"	1 25
17 x 17	"		"	1 75
20 x 20	"		"	2 25

FORCE CUPS.

Easily opens sinks that have become clogged. They consist of a cup-shaped rubber to which a handle is attached. To operate, place the cup over mouth of drain pipe and press down, which immediately removes the obstruction.

No.	1	each,	$0 50
"	2	"	75
"	3	"	1 00

OLMSTED'S LANTERN SLIDE MAT.



This is, without doubt, the most convenient form of lantern slide mat. It is so constructed that with the aid of a knife, and without the use of a rule, an opening of any size or shape can be cut in a few seconds. It combines every desirable feature, including place for name and number and indicating mark.

Price per 100 ..... $0 75

LANTERN SLIDE MATS.

For transparencies. Fifty mats in each package.

Price, per package $0 50

DIAMOND COVERING GLASS FOR LANTERN SLIDES.

The glass sold under this name is cut with extreme accuracy, is perfectly flat, clear, brilliant and transparent, and of very pure quality. It is entirely free from waves and inequalities, and is only one-twentieth of an inch in thickness.

3¼ x 4 ..... per dozen, $0 30
3¼ x 4 ..... per gross, 3 00

(Put up two dozen in a package.)

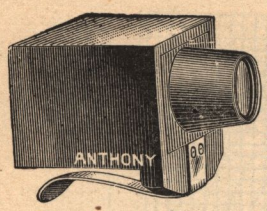
COVERING GLASS FOR LANTERN SLIDES.

This glass is $\frac{1}{50}$ inch thick, and perfectly colorless.

Per Dozen.

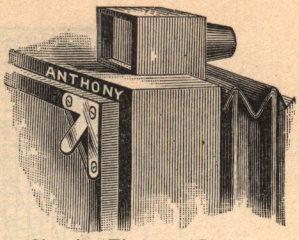
3¼ x 4 ..... $0 30

ANTHONY'S UNIVERSAL FINDER.



Showing method of fastening Finder to Camera.

This neat, compact article can instantly be attached to any camera, is of great value in composing a view, and is indispensable for instantaneous views of moving objects. It corresponds in shape to the ordinary negative. The ground side of the glass can be marked at will to denote position desired when taking instantaneous views.



Showing Finder on Camera.

Price.....$1 50

THE E. A. BRILLIANT FINDER.

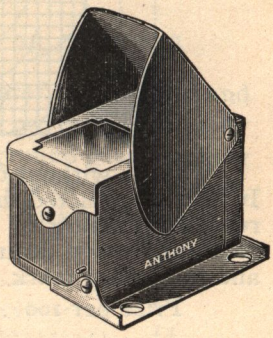
Has no ground glass, but is constructed in such a way as to show a beautifully distinct and brilliant image, which is perfectly visible in the brightest sunshine.

It is mounted on a pivot, which makes it equally useful for upright and horizontal pictures.

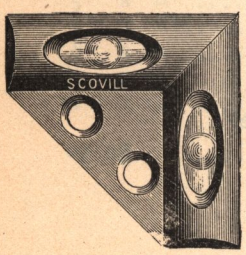
The angle of views is made to correspond with that of lenses ordinarily in use on hand cameras.

It is finished in mahogany, with polished brass trimmings, and also covered in leather, with nickel-plated trimmings.

It is the best Finder for the price on the market.



	Price.
4 x 5	$1 25
5 x 7	1 50



THE SCOVILL DOUBLE LEVEL.

The Scovill Double Level will be appreciated by landscape and tourist photographers. It may be attached to the body of hand cameras, but if a tripod camera is used it should be attached to the swing-back.

Price.....$0 40

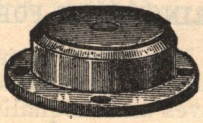
CAMERA LEVELS.

These Levels will be found very useful, and every camera should be equipped with one.

No. 1. In Metal Mounting, Round, with Flange Screw Holes.....$0 75

No. 2. In Metal Mounting, Round, large size, $1 00

No. 4. Indicates two positions separately...$1 00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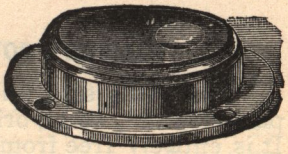
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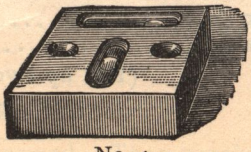
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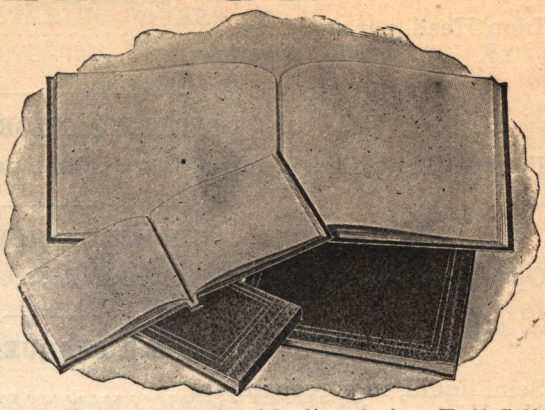
THE ROYAL FLEXIBLE ALBUMS.

FOR UNMOUNTED PHOTOGRAPHS



In presenting our new Royal Flexible Albums, we offer a new style in a free opening album that will win merit at once. The leaves are so hinged, that when the album is open each leaf opens up perfectly free and flat. The covers are flexible and binding of our superior workmanship. The leaves are all of the latest shades, Carbon Black, Sepia, Scotch and Steel Gray, and made from our Pur-est stock—binding being Full Silk Cloth and Imitation Seal Grain.

Each Album is separately boxed, convenient for mailing or expressing.

THE ROYAL FLEXIBLE ALBUM.

PRICE LIST.

Size of Leaf.	Number of Leaves to Album.	FULL SILK CLOTH BINDING. Black and Dark Green. No.	Price Each.	IMITATION SEAL GRAIN BINDING. Black and Maroon. No.	Price Each.
5½ x 7	25	20/25	$0 35	60/25	$0 50
5½ x 7	50	20/50	50	60/50	65
7 x 10	25	21/25	50	61/25	75
7 x 10	50	21/50	75	61/50	1 00
10 x 12	50	22/50	1 25	62/50	2 00
11 x 14	50	23/50	2 00	63/50	2 50

Pure-est Leaves—Carbon Black, Scotch Gray, Sepia and Steel Gray.
In ordering, please mention colors of binding and leaves wanted.

PHOTOGRAPHER'S NOTE BOOK.

For recording exposures, with page-columns for noting number of holders, progressive number, date, subject, time, lens, focus, diaphragm, time of day, plate and general remarks. Neatly and strongly bound, measuring 3 x 4¼ inches.

Price, including pencil.....$0 25

INDIA INK.

Lion Head, per stick $0 20
" " per lb. (40 sticks) 6 50

SPOTTING COLORS.

For spotting prints, in sets of three colors, price per set $0 15

GIHON'S OPAQUE.

Opaque (Gihon's), per box $0 50

A. & S. OPAQUE.

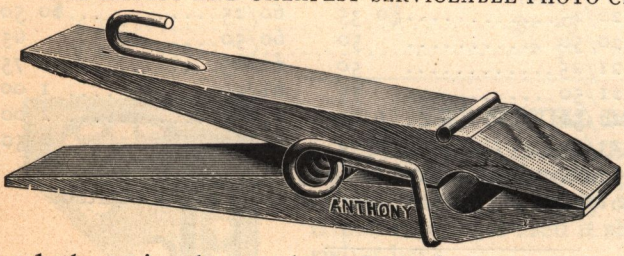
Semi liquid, in porcelain jars $0 35
Hard, in porcelain cups 15

SCOVILL'S OPAQUE.

For spotting negatives, etc., per jar $0 35
" " " " Amateur size 15

U. S. PHOTO CLIP.

THE LATEST AND CHEAPEST SERVICEABLE PHOTO CLIP IN THE MARKET.



This clip is exceedingly strong, being made of hard wood, with heavy wire springs, and is provided with a hook. The quality of stock employed in its construction is the best and the price lower than that of any other article of its kind.

Per gross $2 50
Per dozen 25

PASSE PARTOUT BINDERS.

Pebbled paper, for binding Passe Partout pictures, transparencies, etc. In rolls of 12 yards 7/8 in. wide.

Price, per roll $0 20

MODEL LANTERN SLIDE BINDERS.

These binding-strips are made from specially prepared paper, are gummed with great care, and are the best in the market. They are packed in flat, straight cartons, which is a great improvement over the previous method, each carton containing 50 strips.

Price, per carton $0 20

FILTERING PAPERS.

French Round, in packs of 100 sheets, No. 19, 7½ in., diameter....$0 28
" " " " " 25, 10 " " 36
" " " " " 33, 13 " " 52
" " " " " 40, 16 " " 64
" " " " " 45, 18 " " 84
" " " " " 50, 19½ " " 96
Best Square White Filtering Paper, per quire..... 40

WORLD BLOTTING PAPER.

	Per doz.		Per Ream
100 lb., 19 x 24.....	$0 60	100 lb., 19 x 24.....	$16 00

ANTHONY'S REGAL NON-LINTING BLOTTER.

Size.	Per doz.	Size	Per Ream.
18 x 24, Chemically Pure.....	$0 26	18 x 24, Chemically Pure.....	$9 00

ANTHONY'S SENSITIVE LITMUS.

Is thoroughly reliable, and is made especially for use in toning baths. It is put up in amber glass tubes, convenient for the pocket. Both colors, red and blue.

Sheets 9 x 11 inches, per sheet.....$0 05
" " " " dozen..... 50
One hundred pieces in Tube..... 15

ANTHONY'S NON-ACTINIC PAPER.

Prepared expressly to exclude actinic rays, and especially useful in improvizing dark-rooms, ruby lamps, etc.

In Sheets of 12 x 19 in., per dozen.....$1 50

CEPA SKIN PAPER.

For Vignetting, very fine, per dozen.....$0 20

TISSUE AND STICKING PAPERS.

Joseph Paper, for cleaning the plate holder and absorbing the waste silver, thereby protecting the holder, per quire, 25c.; per ream..$4 50
Gum or Sticking Paper, per dozen, 20 cents; gross..... 2 50
Needle Paper, per dozen, 25 cents; per ream..... 8 00
Post Office " " 20 " " 6 00
Sheplie's Gum Paper, per roll of 300 yards 60

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Amateur Portraiture at Home. By F. DUNDAS TODD. Clearly and simply written. Illustrated. Paper, 50 cts.; postage, 2 cts.

Amateur Photography. A practical guide for the beginner. By W. I. LINCOLN ADAMS. Illustrated. Paper covers; 75 cts. Cloth bound, $1.25.

Burton's Modern Photography. New edition. By W. K. BURTON, C.E. Paper, 126 pp. A splendid book for all who desire to learn photography thoroughly. The various processes are described in a complete yet simple manner. Price, 50 cts.

The Camera and its Appurtenances. By H. J. L. J. MASSE. A complete guide to the various appurtenances pertaining to negative making, their uses, etc. Price, 25 cts.; postage, 2 cts.

The Dark Room. *The Photo-Miniature Series No. 33.* A practical discussion of this important subject. How to build and equip the dark room, with diagrams and plans. 1901. 25 cts.

Drop-Shutter Photography. By FRED. W. PILDITCH. Twenty-two half-tone illustrations. A guide to shutter photography in all its phases. Price, 25 cts.; postage, 2 cts.

Early Work in Photography. By W. ETHELBERT HENRY. (English.) A useful handbook. Illustrated. With a chapter on lenses by H. SNOWDEN WARD. Second edition. 1897. Cloth, 50 cts.; postage, 4 cts.

Experimental Photography. By CLEMENT J. LEAPER. A beginner's experimental course in photography. 1898. (English.) 99 pp. Cloth, 50 cts.; postage, 4 cts.

First Step in Photography. By F. DUNDAS TODD. The most popular book for beginners ever written. (50th thousand.) Paper, 25 cts.

The Photo-Beacon Exposure Tables. Guaranteed correct for every possible condition out of doors. Price, 25 cts.

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The Photographic Way of Doing Things. No. 1. By OTTOMAR JARECKI. A series of easy lessons in amateur photography as a hobby. 1899. Paper, 25 cts.

Progressive Lessons in Photography. By HENZY G. ABBOTT. 1899. Part I. 90 pp. Illustrated. Paper, 25 cts.; cloth, 35 cts.; postage, 2 cts.

Second Step in Photography. By F. DUNDAS TODD. As good as "First Step," but more advanced. Paper, 50 cts.

B—GENERAL TEXT-BOOKS.

First Principles of Photography. By CLEMENT J. LEAPER. Perhaps the best of recent handbooks for the serious student. Intended as a course of study, and wholly devoted to theory. 1892. 270 pp. (English.) Cloth, $1.25.

Introduction to the Science and Practice of Photography. By CHAPMAN JONES. Revised edition. 1895. Comprehensive and reliable. 320 pp. (English.) Cloth, $1.25.

Modern Photography in Theory and Practice. By HENRY G. ABBOTT. 1899. 245 pp. Illustrated. Paper, 75 cts.; cloth $1.00.

Photographic Instruction Text. By GEG. H. PALTRIDGE. 1900. A practical book. 230 pp. Cloth, $1.00; postage, 8 cts.

Photographics. By EDW. L. WILSON. 1881. (9th thousand.) Especially valuable to professionals and process workers. 366 pp. Appendix. Illustrations throughout. $4.00; postage, 20 cts.

The Barnet Book. A difficult work to describe, but one of the most satisfactory of all photographic books; now in its 50th thousand. (English.) 1898. 300 pp. Well illustrated. Cloth, $1.00; postage 13 cts.

Wilson's Quarter Century in Photography. A standing manual on modern photography. By EDW. L. WILSON. 1886. (10th thousand.) 528 pp. Quotations from 300 authorities; 280 engravings. Plain and practical; theory and working instructions. Cloth, $4.00; postage, 23 cts.

C—REFERENCE BOOKS.

The Action of Light in Photography. By SIR W. D. E. W. ABNEY. 1896. (English.) 204 pp. Illustrated. Paper, $1.75.

Dictionary of Photography. *Anthony's Series No. 25.* By E. J. WALL. A most valuable book of reference, containing concise and explanatory articles on almost every subject in photography. Useful to both amateur and professional. Printed on heavy-coated woodcut paper, 240 pp., handsomely bound in cloth. Price, $1.50; postage, 10 cts.

The Dictionary of Photography. By E. J. WALL. Revised by THOMAS BOLAS. (English.) 1897. Seventh edition. 630 pp. Cloth, $3.75.

The Encyclopædic Dictionary of Photography. *S. & A. Series No. 49.* Containing over 2,000 references and more than 500 illustrations. The completest work of the kind ever issued. By WALTER E. WOODBURY, editor of "The Photographic Times-Bulletin." Cloth bound, $5.00.

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The Photographic Reference Book. By W. A. WATTS. (English.) Tells "how to do" things rather than describe methods. 835 references. 300 pp. Cloth, $3.00.

The Processes of Pure Photography. *S. & A. Series No. 29.* By W. K. BURTON and ANDREW PRINGLE. A standard work, very complete and fully illustrated. Paper covers, $2.00. Library edition, $2.50.

A Reference Book of Practical Photography, By F. DUNDAS TODD. Part I. 200 practical paragraphs on general photographic work. 96 pp. and index. 1898. Paper, 50 cts.

A Reference Book of Practical Photography. By F. DUNDAS TODD. Part II. 130 pp. with index A complete dark-room manual; developers and development, intensification, reduction, etc. 1899. Paper, 50 cts.

Wilson's Cyclopædic Photography. A complete handbook of the terms, formulas, materials, apparatus, processes and applications of photography. By EDWARD L. WILSON. 1894. 453 pp. 2,500 references. Cloth, $4.00; postage, 23 cts.

D—PHOTOGRAPHIC OPTICS.

A First Book of the Lens. By E. WELBORNE PIPER. An elementary treatise on the action and use of lenses. 170 pp. Cloth, $1.25; postage, 6 cts.

Lens Work for Amateurs. By HENRY ORFORD. 1894. (English.) An interesting text-book for students. Many diagrams. Cloth, $1.50.

The Optics of Photography and Photographic Lenses. By J. A. TRAILL TAYLOR. 1892. (English.) A sound, practical book. Many diagrams. 240 pp. Cloth, $1.75.

Photographic Lenses. How to choose and how to use. By JOHN A. HODGES. 1898. (English.) A good elementary handbook. Cloth, $1.00.

Photographic Optics. *S. & A. Series No. 37.* A text-book for the professional and amateur. By W. K. BURTON. Paper covers, $1.00. Library bound, $1.50.

Practical Notes on Telephotography. A useful pocket book of information about the Telephotographic lens and its uses. Illustrated. Neatly bound in cloth, 25 cts.; postage, 2 cts.

Telephotography. *The Photo-Miniature Series No. 26.* A practical account of the Telephotographic lens and its uses in long-distance views, portraiture, architectural photography. With instructive illustrations. 1901. 25 cts.

E—CHEMISTRY OF PHOTOGRAPHY.

Chemical Notions for Photographers. *The Photo-Miniature Series No. 18.* A simple and lucid explanation of the chemical changes on which photography is based. With diagrams and other illustrations. 1900. 25 cts.

Chemistry for Photographers. By C. F. TOWNSEND. An excellent first handbook, simple and practical. (English.) Second edition. 1899. Cloth, 50 cts.

The Chemistry of Photography. By RAPHAEL MELDOLA. A series of printed lectures on theoretical chemistry for students. 1891. 371 pp. Cloth, $2.00; postage, 11 cts.

The Chemistry of Photography. *S. & A. Series No. 41.* By JEROME HARRISON. The most comprehensive and satisfactory work on the subject, but written from the historical rather than the modern practical point of view. 1892. 426 pp. Cloth, $3.00.

Hardwich's Photographic Chemistry. *S. & A. Series No. 12.* A manual of photographic chemistry, theoretical and practical. (Ninth edition.) Edited by J. TRAILL TAYLOR. Leatherette binding, $2.00.

F—THE STUDIO, LIGHTING, POSING.

Artistic Lighting and At-Home Portraiture. By JAMES INGLIS and L. DUNDAS TODD. (Second edition.) 1900. Fully illustrated. Paper, 50 cts.; cloth, $1.00; postage, 2 cts.

Figure Drawing and Composition. By RICHARD G. HATTON. (English.) 1900. 312 pp. With many illustrations. An invaluable text-book for all who have to deal with the figure, although not written for photographers. Cloth, $3.50.

The Photographic Studio. Its construction, etc. By T. BOLAS. The best work on its subject. (English.) 1895. $1.50; postage, 6 cts.

The Photographic Studios of Europe. By H. BADEN PRITCHARD, F.C.S. Paper covers, 50 cts.; cloth bound, $1.00.

The Pose in Portraiture. *The Photo-Miniature Series No. 2.* A practical digest on the art of posing. With full instructions for posing single figures and groups, telling what to avoid, and how to obtain the most pleasing results. Fully illustrated. 1900. Eighth thousand. 25 cts.

The Studio and What To Do In It. By H. P. ROBINSON. Not modern, but reliable. Cloth, $1.00.

G—PICTORIAL PHOTOGRAPHY.

Artistic Landscape Photography. By A. H. WALL. A practical guide, well illustrated with helpful pictures. 172 pp. $1.50; postage, 8 cts.

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Elements of a Pictorial Photograph. By H. P. ROBINSON. 1896. Thirty-seven pictures in the text, and frontispiece "Storm Clearing Off." Chapters on: Imitation, The Study of Nature, The Use of Nature, Some Points of a Picture, Selection and Suppression, Composition Expression in Landscape, Idealism, Realism and Impressionism, Limitations, The Suds, False Purity, The Question of Focus, Models, Foregrounds, The Sky, The Sea, Rural Subjects, Lessons from Birket Foster, Winter Photography, Individuality. Postpaid, $1.75.

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In Nature's Image. By W. I. LINCOLN ADAMS. A companion volume to "Sunlight and Shadow," and even more of a success. Price, in a box, $2.50.

Landscape Photography. *The Photo-Miniature Series No. 25.* A little book about landscape from the common-sense point of view. Composition, selection and arrangement of outdoor scenes. Fifteen illustrations. 1901. 25 cts.

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Photographing Clouds. *The Photo-Miniature Series No. 24.* The only book on this subject, giving plain information and charming illustrations; the getting of clouds separately; clouds in view, and printing in of clouds. 1901. 25 cts.

Photography Outdoors. *The Photo-Miniature Series No. 4.* Choice of apparatus, treatment of subject, composition. Open-air portraiture, landscapes with and without figures, coast scenes, shipping, "Moonlight" scenes, winter work, etc. 1900. Seventh thousand. 25 cts.

Practical Essays on Art. By JOHN BURNET. Reprinted from the edition of 1826 (1890). Light and Shade, The Education of the Eye, and Composition. Profusely illustrated from the old masters. $1.25; postage, 13 cts.

Practical Pictorial Photography. By A. HORSLEY HINTON. 1898. Sensible little books. Illustrated. Part I. and Part II. Cloth, each, 50 cts.; postage 4 cts. The two parts bound in one volume and better binding, $1.25; postage, 6 cts.

Seashore Photography. *The Photo-Miniature Series No. 28.* The first little book giving plain and practical instructions about photographing at the seashore: cameras, plates, exposure, choice and treatment of subjects; shipping, the surf, beach scenes and the sea itself. Illustrated. 1901. 25 cts.

Sunlight and Shadow. A book for photographers, amateurs and professionals. By W. I. LINCOLN ADAMS. Illustrated with over 100 handsome photo-engravings. Beautifully and substantially bound. Price, in a box, $2.50.

Woodland and Meadow. By W. I. LINCOLN ADAMS. Richly illustrated with photographs from nature by the author and others. Just out. Price, in a box, $2.50.

H—NEGATIVE MAKING.

The Acme Record and Exposure Book. Cloth, 25 cts.

Defects in Negatives. *The Photo-Miniature Series No. 32.* With some account of their causes and probable remedies. Fogging, veiling, streaks, stains, scratches, etc. Full of practical information, with a few good pictures. 1901. 25 cts.

Developers and Development. *The Photo-Miniature Series No. 11.* Full, practical information of modern developers; their advantages and limitations. Practical formulæ and mixing of solutions. Various methods of development, with special illustrations showing relation of exposure to development, etc. 1900. Eighth thousand. 25 cts.

Enlarging Negatives. *The Photo-Miniature Series No. 35.* A plainly written account of the simplest and most practical methods for making large negatives from small negatives or prints. Invaluable to all who have small cameras. The best book on the subject. 1902. 25 cts.

Intensification and Reduction. *The Photo-Miniature Series No. 15.* A plainly written and practical guide to complete or local intensification or reduction of faulty negatives. With tested formulæ and best methods of manipulation. 1900. 25 cts.

More About Development with Pyro, Ortol, Metol and their Combinations. *The Photo-Miniature Series No. 34.* A practical and detailed report on these widely used developers, showing their advantages for various purposes, with reliable formulæ. 1902. 25 cts.

Negative-Making. By SIR WM. ABNEY. 1893. (English.) 108 pp. Illustrated. Paper, 50 cts.

The Perfect Negative. By F. C. LAMBERT. 1898. (English.) Chapters on the after-treatment of the negative. Intensification, reduction, etc. 135 pp. Illustrated. Cloth, 50 cts.; postage, 4 cts.

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CATALOGUE F.

CHEMICALS, FILMS, PAPERS AND PLATES

1904

THE ANTHONY & SCOVILL COMPANY
122-124 FIFTH AVENUE, NEW YORK

Catalogue A.—Lenses and Shutters.
" B.—Studio Cameras, Stands and Attachments.
" C.—Hand and View Cameras, Enlarging, Lantern Slide and Micrographic Cameras, Plate Holders and Carrying Cases.
" D.—Professional Studio Sundries.
" E.—General Photo Sundries and Photographic Publications.
" F.—Chemicals, Films, Papers and Plates.
" G.—Photo-Engravers' Supplies.

ANSCO FILM.

Ansco Cartridge Films are made under the Goodwin Patent No. 610,861, dated September 13, 1898.

The support of the Ansco Film contains no substance injurious to the sensitive emulsion, thus increasing its keeping quality to a remarkable degree.

The quality of the sensitive emulsion of the Ansco Film is absolutely the highest and affording greater latitude in exposure and development than any other film.

Ansco Films are adapted for use in film cameras made under the Houston Patent, namely: Ansco, Kodak, Weno, Hawk-Eye and Buck-Eye Cameras.

Daylight Development.

Ansco Film is the only brand of film which is ready prepared for development in the McCurdy Developing Box, lately advertised under the registered trade-mark "Kodak." All other brands must be prepared by the user, at the expense of his time and patience, and at the risk of fogging the film.

The Ansco Film is ready prepared under a patented method, United States patent No. 727,283, dated May 5th, 1903, which permits both ends of the film to be attached to the black paper without the chance of the film buckling and bunching in the camera.

NON-CURLING ANSCO FILM.

Non-Curling, Non-Electric, Non-Halation and prepared for machine development. The Non-Curling Ansco Film will, as its name implies, remain perfectly flat after development. The Non-Curling Ansco Film is developed in much the same manner as the ordinary film. In drying, however, the film, must be hung up so that neither side will come in contact with anything while drying. This may be accomplished by pinning the top corners to a shelf or by using the Ansco Film clips.

Price List Ansco Film and Ansco Non-Curling Film.

		Price 6 Ex.	Price 12 Ex.
1½ x 2	Adapted to Pocket Kodak	$	$0 25
2¼ x 2¼	" " No. 1 Brownie	15	
2¼ x 3¼	" " " 2 "	20	
1⅝ x 2½	" " " 0 Folding Pocket Kodak	15	25
2¼ x 3¼	" " " 1 " " "	20	40
2½ x 4¼	" " " 1-A " " "	25	50
3¼ x 4¼	For 3¼ x 4¼ Ansco, also adapted to No. 3 Buck-Eye, No. 3 Folding Pocket Kodak or No. 3 Weno Hawk-Eye.	35	70
3½ x 3½	For 3½ x 3½ Ansco, also adapted to Tourist Buck-Eye, No. 2 Folding Pocket Kodak, No. 2 Bull's-Eye or No. 2 Bullet	30	60

Price List Ansco Film and Ansco Non-Curling Film.—*Continued.*

			Price 6 Ex.	Price 10 Ex.
3¼ x 5½	Adapted to No. 3-A Folding Pocket Kodak.....		$0 40	$0 70
4 x 5	For { 4 x 5 Ansco, also adapted to No. 4 Folding Buck-Eye, No. 4 Bull's-Eye, No. 4 Bullet or No. 4 Bull's-Eye Special. }		45	Price 12 Ex. 90
4¼ x 3¼	Adapted to No. 3 Cartridge Kodak		35	70
5 x 4	" " " 4 " "		45	90
7 x 5	For { 7 x 5 Ansco, also adapted to No. 5 Cartridge Kodak }		80	1 60
4 x 5	R-H. Adapted to 4 Horizontal Roll Holder.....			90
4¼ x 3¼	R-H. " " 3 Vertical " "			70
5 x 4	R-H. " " 4 " " "			90
7 x 5	R-H. " " 5 " " "			1 60

Quotations on special sizes will be furnished on application.

"ANSCO" VIDIL-FILM.

The "Ansco" Vidil-Films are daylight loading roll-films, packed in a new and special manner, (Fritzsche's Patent) possessing many great advantages over the ordinary form of Roll Film.

"Ansco" Vidid Films are controlled exclusively by the Anthony and Scovill Company of New York, and can be purchased from any dealer in the United States, handling our photographic specialties.

"Ansco" Vidil-Films are made in all standard sizes, and adapted for use in the Ansco and all standard cameras constructed for roll-films.

"ANSCO" VIDIL-FILMS.

PATENTED IN ALL COUNTRIES.

Ansco" Vidil-Films Complete in Metal Case.

After removal of Metal Case.

"Ansco" Vidil-Films may always be recognized by the triangular metal case with enameled lid bearing the Trade-mark, and by the patent spool with spring clip as represented in the above illustrations.

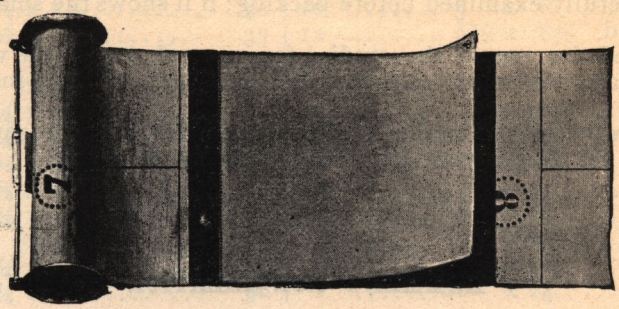
The registered Trade-mark, "Vidil-Film," indicates only Fritzsche's new patent packing system. The additional name "Ansco" indicates that the film contained on the spool is the well known Ansco Film, which is unequalled in latitude of exposure and development, and controlled solely by us.

ADVANTAGES OF "ANSCO" VIDIL-FILMS.

1.—Each film is separately attached to the backing paper.

2.—After exposure any one of the films may be removed from the roll in the dark room, and developed singly, without disturbing the others.

3.—Each exposure may be separately focused by means of the focusing screen provided between each film.



4.—No cutting of the film is necessary.

5.—Each spool contains twelve separate films and the same number of focusing screens, thus placing in the possession of every film camera user every advantage of both glass plates and films.

6.—"Ansco" Vidil Films can be inserted in the camera with greater ease than the ordinary form of roll-film.

7.—Each spool is provided with a spring clip, which prevents the film from unwinding or becoming loose.

8.—"Ansco" Vidil-Films are made in all standard sizes and are adapted for use in the Ansco and all cameras constructed for roll films.

9.—The fact that the film is backed with opaque black gelatine sheets instead of black paper assures the keeping quality of the film on a par with glass plates. The black paper is what reduces the life of films. The tourist in tropical climates and making extended trips will appreciate this.

10.—Printing-off of numbers on the film is impossible.

11.—"Ansco" Vidil-Films are particularly suitable for portraiture, as all objects can be accurately focused within one or two feet.

12.—"Ansco" Vidil-Films are the most perfect substitute for glass plates.

Price List.

		Price 12 Ex.
2¼ x 3¼	Adapted to No. 1 Folding Pocket Kodak	$0 40
2½ x 4¼	" " No. 1-A Folding Pocket Kodak	50
3¼ x 4¼	For { 3¼x4¼ Folding Ansco, also adapted to No. 3 Buck-Eye, No. 3 Folding Pocket Kodak or No. 3 Weno Hawk-Eye. }	70
3½ x 3½	For { Adapted to Tourist Buck-Eye, No. 2 Folding Pocket Kodak, No. 2 Bull's-Eye or No. 2 Bullet }	60

		Price 10 Ex.
3¼ x 5½	Adapted to No. 3-A Folding Pocket Kodak	$0 70

		Price 12 Ex.
4 x 5	For { 4x5 Ansco, also adapted to No. 4 Folding Buck-Eye, No. 4 Bull's-Eye, No. 4 Bullet or No. 4 Bull's-Eye Special }	$0 90
4¼ x 3¼	Adapted to No. 3 Cartridge Kodak	70
5 x 4	" " " 4 " "	90
7 x 5	For { 7 x 5 Ansco, also adapted to No 5 Cartridge Kodak. }	1 60

HAMMER'S EXTRA FAST PLATES

ARE UNEXCELLED IN SPEED, UNIFORMITY, BRILLIANCY AND FREEDOM FROM FOG BY ANY OTHER PLATE IN THE WORLD.

Being reasonably thickly coated, they allow of good latitude in the exposure.

The mechanical perfection of these plates is the very highest. Every plate is carefully examined before packing; if it shows the smallest defect, it is rejected,

Adapted for use in the studio, for general work and where short exposures are necessary; also for the hand camera and instantaneous exposures.

None are easier to work. None can produce better negatives. This is the plate for all purposes of ordinary negative-making.

HAMMER'S NON-HALATION

IS A DOUBLE-COATED PLATE.

The cleaned glass is first coated with our Slow emulsion and dried as usual; then each plate is examined for any possible defects. The perfect plates are returned to the coating-room, and there receive a second coating, but this time it is of our regular Extra Fast emulsion. They are then returned to the drying-room, dried, and the next day again examined. Those having no defects are then packed for the market.

One can readily see the immense advantage this plate has over a single-coated plate where great contrasts are to be photographed.

Expose (time) for the shadows, time the exposure for the outer film; the under or slow film will take care of the high lights. To get the best results these Non-Halation plates should be developed with a rather dilute developer—give the under film a chance to show its quality. Fix, and wash a little longer than usual.

HAMMER'S ORTHOCHROMATIC PLATES.

Are the product of years of chemical research, which has produced a plate that is sensitive to orange, yellow, green and the ordinary reds.

The value of this special sensitiveness is very apparent. In view work, where there are clouds and colored foliage, in views embracing great distance, the finer details are retained. Draperies are reproduced in their true color values. Auburn hair will not be reproduced as though it were black. Freckles are less noticeable. Blue eyes will not be reproduced as almost white.

Hammer's Orthochromatic Plates are made in three grades and labeled as follows: Extra Fast, Non-Halation and Slow.

The Extra Fast Ortho is somewhat faster than the regular Extra Fast plate.

The Non-Halation Ortho combines all the advantages of a double-coated plate with those of the color-sensitive plate, and is an exceptionally good plate.

The Slow Ortho has a high degree of color-sensitiveness, and we recommend it for use where time can be given.

(In bright light a yellow screen is an advantage.)

PRICE LIST.

HAMMER DRY PLATES.

SPECIAL, EXTRA FAST, FAST, SLOW.

Doz. in case.	Sizes.	Per doz.
30	1 x 1½	$0 20
30	2 x 2	20
30	2½ x 2½	30
30	2½ x 4	35
30	3 x 3	35
30	3 x 3½	35
30	3¼ x 3¼	40
30	3¼ x 3½	40
30	3½ x 3½	40
30	3¼ x 4¼	45
30	4¼ x 4¼	60
30	4 x 5	65
30	4¼ x 5½	75
30	4¼ x 6½	90

Doz. in case.	Sizes.	Per doz.
26	4¾ x 6½	$ 1 00
20	5 x 7	1 10
20	5 x 8	1 25
12	6½ x 8½	1 65
12	7 x 9	2 00
12	7 x 10	2 10
12	8 x 10	2 40
4	10 x 12	4 20
4	11 x 14	6 00
3	14 x 17	9 00
2	16 x 20	13 25
2	17 x 20	14 00
1½	18 x 22	16 50
1	20 x 24	20 00

HAMMER'S ORTHOCHROMATIC PLATES.

EXTRA FAST ORTHOCHROMATIC AND SLOW ORTHOCHROMATIC.

Doz. in case.	Sizes.	Per doz.
18	1 x 1½	$0 20
18	2 x 2	20
18	2½ x 2½	30
18	2½ x 4	35
18	3 x 3	35
18	3 x 3½	35
18	3¼ x 3¼	40
18	3¼ x 3½	40
18	3½ x 3½	40
18	3¼ x 4¼	45
18	4¼ x 4¼	60
12	4 x 5	65
12	4¼ x 5½	75
12	4¾ x 6½	90

Doz. in case.	Sizes.	Per doz.
12	4¾ x 6½	$ 1 00
12	5 x 7	1 10
12	5 x 8	1 25
8	6½ x 8½	1 65
6	7 x 9	2 00
6	7 x 10	2 10
6	8 x 10	2 40
2	10 x 12	4 20
2	11 x 14	6 00
2	14 x 17	9 00
1½	16 x 20	13 25
1½	17 x 20	14 00
1½	18 x 22	16 50
1	20 x 24	20 00

HAMMER NON-HALATION AURORA PLATES.

ORTHOCHROMATIC, NON-HALATION.

Doz. in case.	Sizes.	Per doz.
18	3¼ x 4¼	$0 55
12	4 x 5	80
12	4¼ x 5½	95
12	4¼ x 6½	1 10
12	4¾ x 6½	1 20
12	5 x 7	1 40
12	5 x 8	1 55
8	6½ x 8½	2 10
6	7 x 10	2 65

Doz. in case.	Sizes.	Per doz.
6	8 x 10	$ 3 00
2	10 x 12	5 15
2	11 x 14	7 25
2	14 x 17	11 25
1½	16 x 20	16 40
1½	17 x 20	17 25
1½	18 x 22	20 40
1	20 x 24	24 65

HAMMER'S EXTRA FAST, SPECIAL, FAST, SLOW AND ORTHOCHROMATIC PLATES.

IN FRENCH SIZES (CENTIMETERS.)

Doz. in case.	Sizes Centimeters.	Per doz.
30	6½ x 9	$0 30
30	6 x 9	30
30	8 x 9	40
30	9 x 12	60
20	8½ x 17	1 00
20	12 x 16	1 00
20	12 x 18	1 10
20	13 x 18	$1 10
10	18 x 24	2 20
10	18 x 26	2 40
4	21 x 27	3 00
4	24 x 30	4 20
3	30 x 40	9 00
1	50 x 60	20 00

We supply all brands of plates at manufacturer's list prices.

HAMMER'S RETOUCHING VARNISH.

Doz. in case.	Ounces in each Bottle.	Price Per Bottle.
1	16	$0 50

HAMMER DRY POWDER DEVELOPER.

Capsules in each box.	Price Per Box.
6	$0 25

LANTERN SLIDE PLATES AND COVER GLASS.

Doz. in case.	Sizes.	Per doz.
30	3¼ x 4	$0 55
30	3¼ x 3¼	40
Cover Glass	3¼ x 4	$0 25
Cover Glass	3¼ x 3¼	20

HAMMER X-RAY PLATES.

Some of the best X-Ray negatives ever produced were made on these plates.

The Hammer X-Ray Plate is made expressly for this kind of work, being more sensitive to this kind of light.

Guard these plates well from all light, using no more than is actually necessary during development.

To obtain the best results, use a dilute developer on the start, and later use a developer of normal strength.

It is sometimes an advantage to add a little bromide to the developer after the image is well out.

(Envelopes and plates sent separate, if so desired.)

X-RAY PLATES.

Doz, in case.	Sizes.	Per doz.
6	5 x 7	$1 40
6	5 x 8	1 55
6	6½ x 8½	2 10
6	8 x 10	3 00
2	10 x 12	$5 15
2	11 x 14	7 25
1½	14 x 17	11 25

X-RAY PLATES.

DOUBLE COATED.

Doz. in case.	Sizes.	Per doz.
6	5 x 7	$1 70
6	5 x 8	1 85
6	6½ x 8½	2 55
6	8 x 10	3 60
2	10 x 12	$6 10
2	11 x 14	8 50
1½	14 x 17	13 50

Larger sizes made to order on short notice.

These plates are packed ½ dozen in each box.

The plates are packed in envelopes made of chemically pure paper.

MONARCH PRODUCTS.

NONE GENUINE WITHOUT OUR TRADE MARK.

MONARCH MATTE.

A matte surface collodion paper for Carbon and Platinum effects; permanent, and of high artistic values. See price list on another page.

MONARCH GLACÉ.

A glossy surface, highly sensitized collodion paper, permanent and capable of producing most exquisite details from ordinary negatives. Of unequaled keeping qualities. See price list on another page.

MONARCH GOLD.

A solution of Gold, put up expressly for use with our paper. Always reliable, and of uniform strength and acidity. Goes further than any other brand on the market. Per Bottle, size No. 1, $0.50; No. 2, $1.00; No. 3, $2.00.

MONARCH PLATINUM.

A concentrated platinum solution carefully prepared from the best chemicals, and only requiring the addition of water to make toning bath. Per Bottle, size No. 1, $0.50; No. 2, $1.00.

MONARCH SPOTTING COLORS.

These colors will burnish to the same brilliancy as film, and are put up in a package of three shades. Per package of three shades, $0.15.

MONARCH NEGATIVE VARNISH.

Made with special reference to use with Monarch Paper and dry plates. No sticking or staining in any kind of weather or climate, if directions are followed. Does not remove retouching. 6-oz. Bottle, $0.40; pints, $1.00; quarts, $1.90; gallons, $7.00.

MONARCH MATTE AND MONARCH GLACÉ.

Are pure Collodion Papers, reliable, uniform, and permanent. They are three times quicker printing than any other Collodion Papers on the market, which is a great advantage in dull or cloudy weather.

Desired tones on either Monarch Matte or Monarch Glacé may easily be obtained with the solutions now in use, but for the best results use the "Monarch Solutions," which are especially prepared and carefully compounded for use with our papers.

Price List.

MONARCH MATTE.

Size.	½ Doz.	Doz.	½ Gr.	Gr.
2½ x 2½	2 dz.	$0 30	$0 70	$1 20
2¼ x 3¼	2 dz.	30	70	1 20
2¼ x 3½	2 dz.	30	70	1 20
2¼ x 3¾	2 dz.	30	70	1 20
2½ x 4¼	2 dz.	30	70	1 25
3½ x 3½	2 dz.	30	80	1 50
3 x 4	2 dz.	30	70	1 20
3½ x 4	2 dz.	30	80	1 50
4 x 4	1 dz.	20	90	1 65
3¼ x 4¼	2 dz.	30	80	1 50
4¼ x 4¼		20	90	1 65
3⅞ x 5½, Cabinet		25	1 10	2 00
3⅞ x 5⅞		30	1 25	2 25
4 x 5		20	90	1 65
4¼ x 5½		30	1 25	2 25
4 x 6		30	1 25	2 25
4¼ x 6½		30	1 50	2 60
4¾ x 6½		30	1 70	2 90
4 x 9, Celoron Panel		35	....	3 30
5 x 7		35	1 95	3 20
5 x 7½		40	2 10	3 50
5 x 8		40	2 10	3 60
5½ x 7¾, Paris Panel		45	2 30	4 00
6 x 8		50	2 70	4 80
6½ x 8½		55	2 90	5 10
7 x 9		60	3 30	6 00
7½ x 9½		65	3 75	7 00
8 x 10		75	4 20	7 80
10 x 12		1 10	6 30	12 00
11 x 14	$0 75	1 45	8 40	15 60
12 x 15	90	1 65	9 90	18 60
14 x 17	1 15	2 20	12 60	24 00
16 x 40	1 50	2 90	16 80	32 40
17 x 20	1 65	3 20	18 00	34 80
18 x 22	1 90	3 60	21 00	40 80
20 x 24	2 20	4 20	24 60	48 00
Cabinet Seconds	....	....	....	1 60

Cabinet Seconds..... 100-sheet package, 1 15
Cabinet Thirds..... 100-sheet package, 60

10-ft. roll, 24½ in. wide..... 2 25
5-yd. roll, 24½ in. wide..... 3 25
10-yd. roll, 24½ in. wide..... 6 00

Roll paper not furnished in smaller sizes or lengths than shown. Special sizes at proportionate prices on orders amounting to $1.00 list or more.

MONARCH GLACÉ.

Size.	½ Doz.	Doz.	½ Gr.	Gr.
2½ x 2½	2 dz.	$0 25	$0 60	$1 00
2¼ x 3¼	2 dz.	25	60	1 00
2¼ x 3½	2 dz.	25	60	1 00
2¼ x 3¾	2 dz.	25	60	1 00
2½ x 4¼	2 dz.	25	....	....
3½ x 3½	2 dz.	25	70	1 25
3 x 4	2 dz.	25	60	1 00
3½ x 4	2 dz.	25	70	1 25
4 x 4	2 dz.	25	70	1 25
3¼ x 4¼	2 dz.	25	70	1 25
4¼ x 4¼	2 dz.	30	75	1 35
3⅞ x 5½, Cabinet		20	90	1 60
3⅞ x 5⅞		20	90	1 60
4 x 5		15	75	1 35
4¼ x 5½		20	90	1 60
4 x 6		20	90	1 60
4¼ x 6½		25	1 25	2 10
4¾ x 6½		25	1 40	2 40
4 x 9, Celoron Panel		....	....	....
5 x 7		30	1 60	2 65
5 x 7½		30	1 70	2 90
5 x 8		30	1 75	3 00
5½ x 7¾, Paris Panel		35	1 90	3 25
6 x 8		40	2 25	4 00
6½ x 8½		45	2 40	4 25
7 x 9		50	2 75	5 00
7½ x 9½		55	3 25	6 00
8 x 10		60	3 50	6 50
10 x 12		90	5 25	10 00
11 x 14	$0 65	1 20	7 00	13 00
12 x 15	75	1 35	8 25	15 50
14 x 17	95	1 80	10 50	20 00
16 x 20	1 25	2 40	14 00	27 00
17 x 20	1 35	2 60	15 00	29 00
18 x 22	1 60	3 00	17 50	34 00
20 x 24	1 85	3 50	20 50	40 00
Cabinet Seconds	....	....	....	1 20

Cabinet Seconds..... 100-sheet package, 85
Cabinet Thirds..... 100-sheet package, 60

10-ft. roll, 24½ in. wide..... 1 75
5-yd. roll, 24½ in. wide..... 2 50
10-yd. roll, 24½ in. wide..... 4 50

Roll paper not furnished in smaller sizes or lengths than shown. Special sizes at proportionate prices on orders amounting to $1.00 list or more.

THE COLUMBIAN PHOTO PAPER COMPANY.

Operates the only Mill in the world where all varieties of photograpic papers are manufactured, beginning with the linen rag and ending with the sensitized paper ready for the photographer's use.

Exhaustive chemical tests and anlyses have proven the chemical purity of the Columbian Photo Paper Company's products. In this respect its papers are not surpassed by any others.

The following papers are made by this Company.

Raw Papers for Solar and Platinum processes.

Filled or Coated Papers for Gelatine, Collodion. Matte and Glacé; Bromide and Developing Emulsions.

Salted Solar Paper.

16¾ x 20¾ ..... per dozen, 60 cts. net

Unsalted Solar Paper.

16¾ x 20¾ ..... per dozen, 50 cts. net

The above papers are supplied to large consumers in rolls of different weights and widths.

Detailed information will be furnished upon application.

CYKO.

Cyko is a paper of the development class, which may be printed at any time, by any light, and from all classes of negatives. It has been the aim of the manufacturers to provide a paper suitable for all classes of negatives, and capable of producing a great variety of effects.

Through painstaking and persistent effort this end has been attained, and Cyko is now made in three different grades and six surfaces, as shown in the following classification.

The Grades.

The Contrast grade is recommended for general amateur work. It produces a pleasing brilliant effect, suitable for *weak, flat* or *overtimed negatives*. Cykos of this grade are slow, with great latitude in manipulation. The exposure should be about twice that required for the Normal grade.

The Normal grade is especially adapted for portraiture and fine amateur work; yielding soft effects with full detail and beautiful half tones. This grade requires a *normal negative* (properly timed and developed). The exposure should be about one half that necessary for the Contrast Cykos, as the Normal papers are quicker.

The Soft grade renders extreme detail and soft effects of great delicacy, suitable for *undertimed, hard, contrasty negatives*. Only about one half the exposure necessary for Normal Cykos is required with the Soft papers. This grade is not suitable for beginners.

The Surface.

Contrast, Normal and Soft MATTE CYKOS have a real matte surface entirely free from the sheen present in some so-called matte papers.

Contrast, Normal and Soft SEMI-MATTE CYKOS have a soft velvet-like surface, yielding brilliant prints while bringing out all the fine detail of the negative.

Contrast, Normal and Soft ROUGH CYKOS have a matte surface, with a coarse grain, giving broad, artistic effects. The surface is somewhat rough for small sizes where extreme accuracy of lines and detail are required.

Contrast, Normal and Soft GLOSSY CYKOS have a brilliant glossy surface. They may be squeegeed or burnished to a very high polish.

Contrast, Normal and Soft STUDIO CYKOS produce prints rivaling the finest Collodion Matte papers. They are pleasingly different from other development papers.

Contrast, Normal and Soft ART CYKOS are heavy papers with a coarse grain, used for art reproductions, large heads and artistic landscapes. The results are indistinguishable from Platinum papers.

PRICE LIST OF CYKO.

Contrast STUDIO CYKO.	Normal STUDIO CYKO.	Soft STUDIO CYKO.
" MATTE.	" MATTE.	" MATTE.
" SEMI-MATTE.	" SEMI-MATTE.	" SEMI-MATTE.
" ROUGH.	" ROUGH.	" ROUGH.
" GLOSSY.	" GLOSSY.	" GLOSSY.

Size.	Doz.	Gross.	Size.	Doz.	Gross.
2¼ x 3¼	$0 12	$1 20	5½ x 7¾	$0 35	$4 00
2½ x 2½	10	1 00	6 x 8	45	4 50
2½ x 4¼	12	1 20	6½ x 8½	50	5 00
3¼ x 4¼	12	1 20	7 x 9	55	6 00
3½ x 3½	12	1 20	7½ x 9½	60	6 50
3⅜ x 5½ Cabinets	15	1 50	8 x 10	70	7 00
4 x 5	15	1 50	9 x 11	90	8 50
4 x 6	20	1 80	10 x 12	1 00	10 00
4¼ x 4¼	15	1 50	11 x 14	1 35	14 00
4¼ x 5½	20	1 80	14 x 17	2 00	21 00
4¼ x 6½	25	2 50	16 x 20	2 50	28 00
5 x 7	30	3 00	18 x 22	3 00	34 00
5 x 8	35	3 50	20 x 24	3 50	40 00

10-ft. Rolls (25 in. wide) $1 75
10-yd. " " " 4 50

Contrast Art Cyko. Size.	Doz.	Gross.
4 x 5	$0 25	$2 00
3⅞ x 5½ (Cabinet)	25	2 00
5 x 7	35	3 50
5 x 8	40	4 00
5½ x 7¾	45	4 50
6 x 8	50	5 00
6½ x 8½	60	6 00
7 x 9	65	7 00
7½ x 9½	75	8 00

Normal Art Cyko. Size.	Doz.	Gross.
8 x 10	80	9 00
10 x 12	1 20	13 50
11 x 14	1 60	17 50
12 x 16	2 00	21 50
14 x 17	2 40	27 00
16 x 20	3 20	36 00
18 x 22	4 00	46 00
20 x 24	4 80	55 00

Soft Art Cyko. Size.	Doz.	Gross.
5½ x 7¾	$0 70	
6 x 8	80	
6½ x 8½	90	
7 x 9	1 10	
7½ x 9½	1 20	
8 x 10	1 30	
9 x 11	1 50	
10 x 12	2 00	
11 x 14	2 50	
14 x 17	3 90	
16 x 20	5 20	
20 x 26	8 40	

10 yd. Rolls (25 in wide) $6 00
10-ft. " " " 2 25

Cyko Post Cards.

Extra heavy stock coated with the celebrated Cyko emulsion.

Per Gross $1 50
Per Dozen 15

Western Acid Hypo.

For fixing Cyko, Bromide, Dry Plates and Films.

Price per package $0 15
Per dozen packages 1 50

Cyko H. M. Developer.

For developing Cyko Paper, Dry Plates, Films.

Per box, five tubes $0 50

Cyko Toner.

For Red, Brown, Sepia. Tones on Cyko Paper only.

8-ounce bottle $0 25

WATER TONE.

A Platinum paper, giving black and white effects which are absolutely permanent.

The easiest manipulated paper made. Requires no toning or fixing bath—just plain water.

A very popular paper for Amateur use.

Size.	Doz.
2¼ x 3¼	$0 15
2½ x 2½	15
2½ x 4¼	20
3¼ x 4¼	25
3½ x 3½	20
3⅞ x 5½ cabinets	40
4 x 5	35
4 x 6	40
4¼ x 4¼	40
4¼ x 5½	40
4¼ x 6½	45
5 x 7	60
5 x 8	65

Size.	Doz.
5½ x 7¾	$0 70
6 x 8	80
6½ x 8½	90
7 x 9	1 10
7½ x 9½	1 20
8 x 10	1 30
9 x 11	1 50
10 x 12	2 00
11 x 14	2 50
14 x 17	3 90
16 x 20	5 20
20 x 26	8 40

ACTINO.

A Collodion Matte Paper for platinum, carbon and sepia prints.

Size.	Doz.	½ Gross.	Gross.
2½ x 2½	$0 12	$0 60	$1 10
2¼ x 3¼	12	60	1 10
2¼ x 3½	12	60	1 10
2¼ x 3¾	12	60	1 10
2½ x 4¼	12	65	1 15
3½ x 3½	15	75	1 35
3 x 4	12	60	1 10
3½ x 4	15	75	1 35
4 x 4	15	80	1 50
3¼ x 4¼	15	75	1 35
4¼ x 4¼	15	80	1 50
3⅞ x 5½ Cabinet	20	85	1 50
3⅞ x 5⅞	20	1 05	2 00
4 x 5	15	80	1 50
4¼ x 5½	20	1 05	2 00
4 x 6	20	1 05	2 00
4¼ x 6½	25	1 25	2 35
4¾ x 6½	25	1 35	2 60

Size.	Doz.	½ Gross.	Gross.
4 x 9 Celeron Panel	$ 30	$1 60	$2 95
5 x 7	30	1 50	2 90
5 x 7½	30	1 70	3 15
5 x 8	35	1 75	3 25
5½ x 7¾ Paris Panel	35	1 90	3 60
6 x 8	45	2 25	4 30
6½ x 8½	45	2 40	4 60
7 x 9	55	2 85	5 40
7½ x 9½	65	3 30	6 30
8 x 10	70	3 70	7 00
10 x 12	1 10	5 65	10 80
11 x 14	1 40	7 35	14 05
12 x 15	1 70	8 80	16 75
14 x 17	2 15	11 35	21 60
16 x 20	2 90	15 35	29 15
17 x 20	3 15	16 45	31 30
18 x 22	3 65	19 25	36 70
20 x 24	4 00	21 00	40 00

Cabinet Seconds, per gross $1 20
20-ft Rolls (25 in. wide), per roll 2 00
5-yd. " " " " 3 00
10 yd. " " " " 5 50

Actino Platinum Solution.

A concentrated platinum solution, prepared from highest grade chemicals, requiring only the addition of water. Put up in two sizes:

Size A, $0.50. Size B, $1.00.

Actino Single Toner.

A new toning compound, producing black tones in Actino paper with one single toning. Two sizes:

Size A, $0.50. Size B, $1.00

ROYAL.

A high surface, insoluble film and an extraordinary brilliant printing-out gelatine paper. Unequaled by any gelatine paper in the market.

Tones equally well in single or combined bath.

Size.	Doz.	2 Doz.	Gross.
3¼ x 4¼		$0 18	$1 05
3½ x 3½		18	1 05
3⅞ x 5½	$0 18		1 25
4 x 5		22	1 10
4 x 6	18		1 45
4¼ x 4¼		22	1 10
4¼ x 6½		½ Gross.	
5 x 7	27	1 45	2 40
5 x 8	27	1 60	2 70
5½ x 7¾	31	1 70	2 95
6 x 8	36	2 00	3 60

Size.	Doz.	½ Doz.	Gross.
6½ x 8½	$0 40	$2 15	$3 80
7 x 9	45	2 50	4 50
7½ x 9½	50	2 75	5 00
8 x 10	54	3 15	5 85
8 x 11	68	4 05	7 20
10 x 12	81	4 75	9 00
11 x 14	1 08	6 30	11 70
14 x 17	1 62	9 45	18 00
16 x 20	2 16	12 60	24 30
18 x 22	2 70	15 75	30 60
20 x 24	3 15	18 45	36 00

Cabinet Seconds 1 00
4 x 5 Seconds Trimmed 90
Cabinet Proofs 75
10-ft. Rolls (25 in. wide) 1 60
10-yd. " " " 4 00

Royal Combined Toning and Fixing Powder.

For toning and fixing in one solution Royal paper. Package makes 12 ounces of solution.

Price per package $0 25
Per dozen packages 2 75

ANSCO BROMIDE PAPER.

The continued and imperative demand for a Bromide Paper for contact and enlarging purposes, equal in quality to our famous Cyko Paper, has induced us to prepare the Ansco Bromide Paper.

This is undoubtedly the finest Bromide Paper on the market, and is made in such a variety of grades, surfaces and finishes, as to be adaptable for every class of negative and pictorial effect.

Ansco Bromide Paper is made in two grades, Contrast and Soft; two weights, Heavy and Light; two surfaces, Rough and Smooth; and three finishes, Matte, Semi-Matte, and Glace.

The packages are marked as follows:—

L. S. C.—Light Smooth Contrast.
L. S. S.—Light Smooth Soft.
H. R. C.—Heavy Rough Contrast.
H. S. S.—Heavy Smooth Soft.
C. M. C.—Carbon Matte Contrast.
L G. C.—Light Glace Contrast.
C. M. S.—Carbon Matte Soft.
L. G. S.—Light Glace Soft.
H. G. C.—Heavy Glace Contrast.
H. G. S.—Heavy Glace Soft.

PRICE LIST; ALL GRADES.

Size.	½ Dozen.	Dozen.	½ Gross.	Gross.
2¼ x 3¼		$0 10	$0 55	$1 00
2½ x 2½		10	55	1 00
2½ x 4¼		12	60	1 10
3¼ x 4¼		15	70	1 30
3½ x 3½		12	70	1 30
3⅜ x 5½		20	95	1 80
4 x 5		20	95	1 80
4 x 6		20	1 00	1 80
4¼ x 4¼		20	95	1 80
4¼ x 5½		20	1 00	1 80
4¼ x 6½		25	1 25	2 25
5 x 7		30	1 70	3 25
5 x 8		35	1 90	3 75
5½ x 7¾		45	2 20	4 20
6 x 8		50	2 50	4 80
6½ x 8½		55	2 90	5 50
7 x 9		60	3 50	6 60
7½ x 9½		65	3 85	7 30
8 x 10	$0 40	70	4 20	8 00
9 x 11	50	90	5 25	10 00
10 x 12	60	1 10	6 40	12 00
11 x 14	75	1 40	8 00	15 40
14 x 17	1 10	2 15	12 50	24 00
16 x 20	1 50	2 80	16 00	31 50
18 x 22	1 85	3 50	21 00	40 00
20 x 24	2 20	4 20	25 00	48 00
10-ft. Roll, 25 inches wide				$1 80
10-yd. " " "				6 25

MONARCH BACKING PAPER.

(COLLODION MATTE.)

A first quality Backing Paper prepared especially for use in making Collodion Carbon Prints on Monarch Matte.

PRICE LIST.

4 x 5	per gross,	$1 35	
Cabinets	"	1 60	
6 x 8	"	4 00	
8 x 10	"	6 50	
9 x 11	"	8 25	
10 x 12	"	10 00	
11 x 14	per gross,	$14 00	
17 x 21	"	30 00	
10-ft Roll, 24 in. wide		1 75	
5-yd. " " "		2 50	
10-yd. " " "		4 50	

BACKING PAPER.

(MATTE AND GLACÉ.)

For Commercial Purposes.

Size.	Gross.
4 x 5	$0 60
Cabinet	60
5 x 7	1 10
5 x 8	1 30
6 x 8	1 50
7 x 9	1 80
8 x 10	2 40

Size.	Gross.
9 x 11	$2 70
10 x 12	3 20
11 x 14	4 00
12 x 15	4 50
14 x 17	6 00
16 x 20	9 60
20 x 24	14 40

10-ft. Roll, 25 in. wide, per roll,	$0 45
5-yd. " " " "	65
10-yd. " " " "	1 15

"ANSCO" PLATINUM PAPER.

Made in two grades (HS) Heavy Smooth, (HR) Heavy Rough.

	Per doz.
3½ x 3½	$0 30
3¼ x 4¼	30
4 x 5	50
3⅞ x 5½ Cabinet	55
4¼ x 5½	60
4¼ x 6½	70
5 x 7	80
5 x 8	95
5½ x 7¾	1 25

	Per doz.
6½ x 8½	$1 25
8 x 10	1 85
10 x 12	2 80
11 x 14	3 75
14 x 17	6 00
16 x 20	7 00
20 x 26	10 00
20 x 26 per sheet,	85
Roll 20 in. wide, 26 ft. long	10 00

"ANSCO" DEVELOPER FOR PLATINUM PAPERS.

For 12 ounce solution	$0 10
For 50 ounce solution	30
For 100 ounce solution	50

E. A. GILT EDGE FERRO-PRUSSIATE PAPER.

This is a thoroughly first class blue print paper. Pictures made with it are of a positive blue instead of the sickly blue green that is sometimes seen. It requires no chemicals in its development, but is merely printed in sunlight and thoroughly washed in clear water.

	Price.
2½ x 2½ in., in hermetically sealed tubes of 2 dozen, per tube	$0 16
3¼ x 4¼ " " " 2 " "	16
3½ x 3½ " " " 2 " "	16
4 x 5 " " " 2 " "	20
4¼ x 4¼ " " " 2 " "	20
4¼ x 6½ " " " 2 " "	30
5 x 7 " " " 2 " "	35
5 x 8 " " " 2 " "	40
6½ x 8½ " " " 2 " "	56
8 x 10 " " " 2 " "	68
18 x 22 " per sheet, 18c.; per dozen	1 50

To save loss, tubes are not broken.

ALBUMEN PAPER.

We have the N. P. A. Extra Brilliant, in pensé tints, which is regarded as decidedly the best foreign paper on the market.

Its excellence has induced some unscrupulous persons to place the stamp on the paper of other makers, in order to work it off, trusting that photographers will not look through to see if the water-mark is there. To prevent this, we have registered this trade-mark in Washington, which will subject to heavy damages all those who stamp this brand on paper which does not bear the water-mark N. P. A.

EXTRA BRILLIANT
N.P.A.
DRESDEN.

	Per ¼ Ream.	Per ½ Ream.	Per Ream.	Per Doz.
N. P. A. Dresden Extra Brilliant, double albumenized. Pensé	$12.00	$22.00	$42.00	$1.25

Dresden, Three Crown Albumen Paper.....per doz., $1 00
Extra Brilliant, Pensé..... " 1 25
Extra Brilliant.....per ream, 42 00
20½ x 24½ Saxe Extra Brilliant Paper.....per doz., 1 40
22 x 36 " " " " ..... " 3 00
26 x 40 " " " " ..... " 6 50
Albumen Paper, 2d choice. In full reams only, per ream..... $30 00

CARBON TISSUE.

MADE BY THE AUTOTYPE CO., LONDON, ENGLAND.

Used in making carbon prints, transparencies, etc., giving permanent pictures.

No.	Colors.	Size of Band.	Per Band.
97.	Warm Sepia	2½ x 12 feet	$2 75
100.	Standard Brown	2½ x 12 "	2 75
103.	Warm Black	2½ x 12 "	2 75
104.	Engraving Black	2½ x 12 "	2 75
105.	Sepia	2½ x 12 "	2 75
106.	Red Chalk	2½ x 12 "	2 75
113.	Portrait Brown	2½ x 12 "	2 75
115.	Lambertype Purple (for portraits)	2½ x 12 "	2 75
151.	Sea Green	2½ x 12 "	2 75
152.	Dark Blue	2½ x 12 "	2 75
155.	Italian Green	2½ x 12 "	2 75
160.	Platinum Black	2½ x 12 "	2 75
162.	Brown Black	2½ x 12 "	2 75
163.	Blue Black	2½ x 12 "	2 75

The above sold in bands only.

107.	Special Transparency Black	2 x 12 feet	$3 60
108.	Single Transfer, Medium, Thick	2½ x 10 "	1 20
79.	" " Fine, Thin	2½ x 12 "	1 50

DOUBLE TRANSFER FINAL SUPPORT.

86.	Medium Thickness	2½ x 12 feet	$1 30
87.	Fine, Thin, for small work	2½ x 12 "	1 50
Sawyer's Temporary Support, Sheets		18 x 23 in., per sheet	35
"	" "	18 x 23 " per dozen	3 80
"	" "	36 x 48 " per sheet	1 30

Waxing Compound, per cake..... 25
Johnson's Actinometer with Sensitive Paper..... 1 10
Sawyer's " " " 2 20
Burton's " " " 2 75

THE TEMPORARY SUPPORT upon which are treated pigment prints from ordinary negatives, permits of the prints being developed upon it with the same ease and facility as did the single transfer, of which this takes the place. This support can be used an indefinite number of times, only requiring to be rubbed over with the waxing solution to insure the stripping of the print from its surface.

THE FINAL SUPPORT is a special paper coated with a gelatinous emulsion of a permanent white or tinted pigment. It supersedes the old double transfer paper by reason of its greater efficiency and the ease and simplicity of working with it. It will keep for an indefinite time, does not require hot water, and forms a permanent basis for the pigment print.

ETCHING PAPER, SINGLE TRANSFER.—A rough-surfaced toned etching paper for single transfer, yielding prints with broad artistic effect, and free from the glaze of an ordinary carbon print. By masking the negative, prints may be developed on this paper with suitable margin, rendering mounting unnecessary.

Band 2½ x 12 feet.....$1 60

ETCHING PAPER, SINGLE TRANSFER.—White or cream, in sheets 22 x 30 inches.

Per Sheet.....$0 45
Per Sheet, Aluminum Coated, Single Transfer.....45

CUT SIZES.

	Tissue. Sea Green, Warm Black and Sepia or assorted Colors. Package of One Dozen.	Transfer Paper. No. 86 Double Transfer.	Transfer Paper. No. 108 Single Transfer.
4 x 5 .....per package,	$0 25	$0 15	$0 10
5 x 8 ..... "	50	25	20
6½ x 8½..... "	65	35	30
8 x 10 ..... "	1 00	45	40

CELLULOID IN SHEETS for mounting the above tissues—

White, 20 x 50 in., $\frac{10}{1000}$ in. thick, per sheet.....$1 25
" 20 x 50 in., $\frac{20}{1000}$ " " 2 00

Sold only in full sheets.

BOOKS ON CARBON PRINTING.—Clomplete instructions for working the carbon process will be found in our publication No. 33, "Carbon Printing for Professionals and Amateurs." Price, 50 cents.

A B C Manual on Carbon Printing, by the Autotype Co., last edition, illustrated, handsomely bound.....$1 00

METALLIC MAGNESIUM POWDER.

Per ounce.....$ 30
" pound..... 4 25

ANTHONY'S ENAMELINE.

FOR CLEANSING AND ENAMELING PHOTOGRAPHS.

Per bottle.....$0 62

ANTHONY'S EIKONOGEN DEVELOPER.

Eikonogen, as used in the Anthony formula, is a rapid developer producing negatives of a beautiful softness and fulness of detail. It may be used repeatedly, and for all but under-exposed negatives the old developer is fully equal to the new.

Price, per 8 ounce bottle.....$0 25
" " 16 " " 45

ANTHONY'S HYDROCHINONE DEVELOPER.

READY FOR USE.

For use, this solution is simply poured into the tray, and when development is finished may be filtered and returned to the bottle. Hydrochinone is a developer endorsed by every dry plate maker in existence. While not so rapid as some, it allows for greater errors in exposure, and produces negatives of splendid contrast and "snap," yet with fulness of detail.

Price, per 8-ounce bottle.....$0 25
" " pint " 45
" " quart " 80

ANTHONY'S PYRO DEVELOPING POWDERS.

The most convenient form of developer for those who prefer the long tried and always reliable Pyro. These powders are prepared ready for use by simply dissolving in water, and will be found invaluable for the tourist or occasional user.

Price, per box of 6 powders, each making 4 oz. solution....$0 25

ANTHONY'S METOL-HYDRO DEVELOPING POWDERS.

Are carefully compounded with metol and hydrochinone, from pure chemicals, and produce negatives of excellent quality, with the advantages obtained from a combination of these developing agents.

Price, per box of 6 powders, each making 4 oz. solution....$0 25

ANTHONY'S DEVELOPING POWDERS.

ECONOMICAL AND CONVENIENT.

These powders are put up in dry form, and in such a way that the contents of an envelope only need to be added to 2 ounces of water, when the developer is ready for immediate use, after which it may be used repeatedly.

Each package contains 1 dozen envelopes of the dry powder, sufficient to develop a large number of plates. The powders are not subject to deterioration, but will keep indefinitely in the dry form.

Price per package of one dozen.....$0 50

HYDROCHINONE DEVELOPING POWDERS.

Possess the valuable properties of Anthony's Liquid Hydrochinone developer. Convenient for the tourist or amateur. Put up in boxes containing 6 powders each.

Price..... $0 25

HYDROCHINONE DEVELOPING TUBES.

Add the contents of tube to 8 ounces of water, and the developer is ready for use. Particularly valuable for the tourist.

Price, per box of 3 tubes..... 25 cents.

STANLEY'S CONCENTRATED DEVELOPER.

A concentrated pyro developer put up in package containing two 8-oz. bottles; one, the pyrogallic solution, the other, the alkali, thus enabling the operator to proportion them as desired.

Price, per package.....$0 50

EIKONOGEN DEVELOPING POWDERS.

These powders are compounded with E. A. Standard Chemicals. Each box contains sufficient material to make 24 fluid ounces of developer. Six packages in each box, each package sufficient for 4 ounces of developer.

Price, per box.....$0 25

EIKONOGEN AND HYDROCHINONE DEVELOPING POWDERS.

Produce beautiful negatives, with all the softness of eikonogen and the contrast and density of hydrochinone.

Price, per box of 6 powders, each making 4 oz. solution..$0 25

HAMMER'S ONE POWDER DRY DEVELOPER.

Accurately compounded, using the purest of chemicals.

This developer is put up in capsules. The contents of each capsule, when dissolved in water, will make 5 ounces of good developer.

Six capsules in each box. Price, 25 cents per box.

FERROUS OXALATE DEVELOPER.

READY FOR USE.

The perfect developer for Bromide papers. Many photographers still think it unrivaled for plates.

Two solutions, with full directions, per set.....$0 50

ACID SULPHITE OF SODA.

FOR USE IN THE FIXING BATH.

Acid Sulphite, in connection with the hypo bath, serves to keep it clear, reduces the time of fixing very considerably, and gives exceptionally clear and stainless negatives. It is invaluable for fixing lantern slides. It may also be used as a preservative for pyro, hydrochinone, or eikonogen in developers, but not in those developers where all the ingredients are in one bottle. Each pint weighs one and one-quarter pounds, full weight.

Pint bottle.....$0 40

E. A. PLATINITE.

For producing platinum tones on Collodion Matt paper. It is chemically pure and of unequalled quality. A 15-grain bottle will tone from 1,500 to 2,000 cabinet prints.

	Price.		Price.
15-grain bottle	$0 60	½-ounce vial	$6 50
¼-ounce vial	3 50	1-ounce vial	12 00

AMATEUR GOLD AND PLATINUM.

For toning Collodion Matt Papers. Ready for use with the addition of water. This preparation secures reliably the Platinum and Carbon effects now so popular on Collodion Matt.

Amateur Gold.....$0 50 | Amateur Platinum.....$0 50

SNELL'S RETOUCHING VARNISH.

FOR RETOUCHING NEGATIVES AND POSITIVES.

An old favorite and endorsed by the profession.

Per bottle.....$0 15

E. A. NEGATIVE DRYER.

AN ARTICLE OF SUPERLATIVE MERIT.

This preparation hardens the film so that the negative may be printed from in five minutes after the final wash.

As it makes the film hard, no varnish is required. By its use all trouble experienced in hot, humid weather is overcome, as it effectually prevents paper from sticking.

Per 8-oz. bottle.....$0 50

ANTHONY'S PERMANENT REDUCER.

For the reduction of overdense negatives, transparencies, lantern-slide and bromide prints. Soak the negative in water for ten minutes, and immerse in the reducer until the required reduction has taken place. Wash well.

8-oz. bottle.....$0 25

"E. A." INTENSIFIER.

A two-solution intensifier of great strength and merit, will keep indefinitely, and may be used repeatedly.

Per set.....$0 50

BORDEAUX'S FRENCH RETOUCHING SOLUTION

is the best thing known for retouching negatives. For retouching locks of hair, scratches and wrinkles in dresses, a Faber No. 2 HH may be used, and for general work a harder lead With it retouching and strengthening may be done upon the glass side.

Per bottle.....15, 25, and 50 cents.

ABSORBENT COTTON.

1 lb. package	$0 40
8 oz. in paper box	25
4 oz. "	15
2 oz. "	08
1 oz. "	05

COLLODIONS.

Anthony's Negative	per lb.,	$1 25
New "	"	1 25
Positive	"	1 25
Instantaneous	"	1 25
Dry	"	1 25
New View	"	1 25
New Ferrotype		1 20
Glacé	per quart,	1 50
Newton's Quick	per lb.,	1 30
Anthony's Porcelain	per 8 oz. bottle,	1 50
Coonley's Portrait Collodion	per lb.,	1 20
Lewis & Holt's Negative and Positive	per bottle,	65

DERMALINE.

A most elegant and pleasant preparation for softening the skin and protecting it from the effects of the weather, the action of chemicals, etc. To photographers it is invaluable, as it protects the hands from dangerous chemicals, so preventing Bichromate and other chemical poisoning. For coryza, if rubbed into the nostrils, it will at once allay the inflammation and stop the discharge. For burns. chapped hands, bites of insects, old sores and scabs. No greasiness accompanies its use, nor will the hands, after being thoroughly rubbed with it and dried, soil the clothing. The white powder is easily removed by a brush. To be applied with considerable friction after washing, or at any time when the skin is clean and thoroughly dry.

Per bottle $0 25

PHOTOGRAPHIC GELATINE.

The various brands of Gelatine mentioned below, we can supply at the following prices:

Henrich's Celebrated Gelatine	per lb.	$1 25
" Lichtdruck "	"	1 35
Stoess' Photo Gelatine, in 1 lb. parcels... 6....	"	1 20

ANTHONY'S DRY PLATE VARNISH.

This Varnish does not impart any color to the negative, and will not soften in the heat of the sun.

Per 6-oz. bottle	$0 40
Pint	1 00
Quart	1 90

VARNISHES.

	Per 6-oz. Bottle.	Pint.	Quart.
Flint	$0 40	$1 00	$1 90
Mountfort's.	40	1 00	1 90
Special	40	....	....
Retouching	50	1 25	2 25
Diamond	35	1 00	1 75
Dry Plate	40	1 00	1 90
S. P. C. Negative	35	1 00	....
Retouching Varnish	....	50	....

COTTONS.

Anthony's Negative	per oz.,	$0 50
No. 1 and No. 2 Soluble	"	50
Positive	"	50
Snowy	"	1 00
Glacé Cotton	"	50
Climax "	"	75
Special "	"	1 00
Flash Cotton for the Piffard Magnesium Flash Light..	"	50
Papyroxyline	"	1 00
Hance's Silver Spray Negative	"	50
" Delicate Cream Negative	"	75

PRICE LIST
of
Photographic Chemicals . . .

Sold and Manufactured by

The Anthony & Scovill Co.

Warranted Pure and of Full Weight and Measurement.

[c. b., signifies corked bottle; g. s. b., signifies glass stoppered bottle.]

The purchaser of chemicals has no guarantee against the troubles that poor ingredients always bring, save in the reputation and reliability of the house whose name the package bears.

Of all names, none stands for greater reliability and honest compounding than that of The Anthony & Scovill Co.

Look for E. A. and S. P. C. and avoid disappointment.

Acid, Acetic, No. 8, in oz. bot	per oz.	$0 06
Acetic, No. 8, in lb. bot.	per lb.	18
Carbolic, C. P., in lb. bot.,	"	65
" " in oz. bot.,	per oz.	10
Citric, in oz. bot.	"	11
" in 4 oz. bot.	per bot	25
" in lb. bot.	per lb.	70
Muriatic, 20°, in 6 lb. g. s. b.	per bot.	51
" C. P., in lb. g. s. b.	per lb.	30
" " in oz. g. s. b.	per oz.	11
Nitric, 38°, in carboys.	per lb.	08
" 40°, " "	"	10
" C. P., in lb. g. s. b.	"	32
" " in oz. g. s. b.	per oz.	11
Oxalic, in lb. bot.	per lb.	26
" in oz. bot.	per oz.	07
Phosphoric, 50°, in lb. bot.	per lb.	42
" 50°, in ½ lb. bot.	per bot.	27
" 50°, in ¼ lb. bot.	per bot.	18
" 50°, in oz. bot	per oz.	10
Pyrogallic, Sherings, in oz bot.	per oz.	32
" " in oz. can	per oz.	27
" " in 4 oz. can	per can	95
" " in 8 oz. can	per can	1 75
" " in lb. can	per lb.	3 40
Sulphuric, C. P., in lb. g. s. b.	per lb.	32
" " in oz. g, s. b.	per bot.	11
" Com'l, in 9 lb. g. s. b.	per bot.	63
Tartaric, in lb. c. b.	per lb.	60

Albumen, Dry (Egg)..	per lb.	$1 25
Dry (Egg)	per oz.	11
Alcohol, Atwood's Pat., in bulk,	per gal.	3 75
Atwood's Pat., in gal. bot.	"	4 20
" " in ½ gal. bot.	per ½ gal.	2 15
" " in qt. bot.	per qt.	1 15
" " in pt. bot.	per pt.	65
Phot. 95%, in bulk	per gal.	3 20
" 95%, in gal. bot.	"	3 70
" 95%, in ½ gal. bot.	per bot.	1 90
" 95%, in qt. bot.	per qt.	1 00
" 95%, in pt. bot.	per pt.	60
Alum, Crystal or ground, in bulk	per lb.	09
Crystal, in 5 lb. boxes.	"	10
Powdered, in bulk.	"	10
" in 5 lb. boxes.	"	11
Chrome, in 1 lb. bot.	"	23
" in 1 lb. carton ..	"	13
Ammonia, Liq. Conc. in 4 lb. g. s. b.	per bot,	85
Liq. Conc., in lb. g. s. b.	per lb.	28
Sulphocyanide, in lb. c. b.	"	65
" in ½ lb. c. b.	per bot.	40
" in ¼ lb. c. b.	per bot.	25
" in oz. c. b.	per oz.	12
Ammonium, Bromide, in lb. c. b.	per lb.	90
Bromide, in ½ lb. c. b.	per bot.	50
" in 2 oz. c. b...	"	20
" in oz. c. b....	"	12
Iodide, in lb. c. b.	per lb.	4 60
" in oz. c. b.	per oz.	34
Bichrom., C. P, in lb. c. b.	per lb.	90
" " in oz. c. b.	per oz.	11
Chloride, in lb. c. b.	per lb.	32

Ammonium, Chloride, in oz. c. b. per oz. $0 10
Hydrosulph. in lb. g. s. b. per lb. 47
" in 5 lb. g. s. b. per bot. 2 00
Nitrate, Fused, in lb. c. b. . per lb. 32
Persulphate .....oz. bot. 15
" .....lb. bot. 1 40

Balsam Fir, in lb. bot.....per lb. 80

Benzole, Extra Distilled, C. P., in Bulk .....per gal. 1 00
Retainers .....gal. c. b. 40
" .....½ gal. c. b. 20
" .....qt. c. b. 14
" .....pt. c. b. 10

Borax, Powdered or crystal, in bulk .....per lb. 15
Powdered, in 5 lb. box, per box 75

Cadmium, Bromide, in lb. c. b. per lb. 1 40
Bromide, in ½ lb. c. b. . .per bot. 75
" in ¼ lb. c. b. . . " 45
" in oz. c. b. .....per oz. 13
Iodide, in lb. c. b .....per lb. 3 50
" in ½ lb. c. b. . . .per bot. 1 80
" in ¼ lb. c. b. . . . " 95
" in oz. c. b. .....per oz. 27
Chloride, in oz. c. b. . . . . " 23

Calcium, Chloride, in lb. c. b. per lb. 42
Chloride, in oz. c. b. .....per oz. 10

Copper, Sulph., Com'l, in bulk, per lb. 12
Sulph., C. P , in lb. bot. . " 35
Sulph., C. P., in lb. box. . " 25

Dermaline.....per doz. 3 00
" .....per bot. 25

Developers, Anthony's Climax, 8 oz. bot. 25c.; 16 oz. bot..... 45
Anthony's Developing Powders, box of 12..... 50
Anthony's Permanent Reducer, 8 oz. bot..... 25
Eikonogen for Dry Plates, per 8 oz. bot. 25c.; 16 oz. bot..... 55
Eikonogen Developing Powders box of 6..... 25
Eikonogen and Hydrochinone Developing Powders, box of 6, 25
Ferrous Oxalate, 2 bottles, per pkge 50
Hydrochinone, for Dry Plates, per 8 oz. bot. 25c.; 16 oz. bot. 45c.; qt. bot..... 80
Hydrochinone, Conc., for Dry Plates.....per 2 oz. bot. 30
Hydrochinone Developing Powders, box of 6..... 25
Metol-Hydro Developing Powder, box of 6..... 25
Pryo Developing Powders, box of 6..... 25
Stanley Conc., 2 bottles per pkge..... 50

Enameline,.....per bot. $0 62

Ether, Sulph., Conc., in lb. bot., per lb..... 90
Sulph., Conc., in 3½ lb. bot., per bot..... 3 00

Gold, Chloride, C. P. Liquid, per bot..... 70
Chloride, C. P., Dry, per bot... 50

Gold and Sodium, Chloride, Dry, per bot..... 27

Glycerine, C. P., in lb., bot., per lb..... 35
In oz. bot.....per oz. 07

Gum, Arabic, No. 1.....per lb. 67
Asphaltum..... " 20
Camphor ..... " 1 00
Damar..... " 45
Sandarac..... " 32
Shellac, White..... " 60
" Orange. ..... " 40
Thus... ..... " 39
Tragacanth..... " 1 60

Hydrochinone, E. A. in lb. carton per lb..... 2 00
E. A., per ½ lb. carton..per car 1 05
" " ¼ lb. carton.. " 55
" " oz. " ..per oz. 15

Iodine, Resub., in lb. bot..per lb. 4 00
Resub., in oz. g. s. b.....per oz. 35

Iron. Oxalate, in lb. bot....per lb. 85
Perchlor. in lb. bot..... " 25
" (in carboys, $1.50) " 11
Protosulph., in lb. bot.... " 18
" in box..... " 08
" C. P., in lb. bot. " 60

Iron and Ammonia, Sulph., in lb. bot..... .....per lb. 25
In lb. box..... " 15
In bulk..... " 14
Citrate, in lb. bot..... " 70
" in oz. bot.....per oz. 11
" Green Scales....per lb. 95

Lead, Acetate in lb. bot....per lb. 39
Acetate, in oz. bot.....per oz. 10
Nitrate, C. P., in lb. bot..per lb. 60
" " in oz. bot..per oz. 09

Magnesium:
Powder, Pure Metal, in lb. can, per lb..... 3 50
Powder, Pure Metal, in ½ lb. can, per can..... 1 80
Powder, Pure Metal, in ¼ lb. can, per can..... 95
Powder, Pure Metal, in oz. can, per oz 27

Mercury, Bichloride, in lb. bot., per lb..... 1 16
Bichloride, in oz. bot....per oz. 15

When S. P. C. is desired, please so specify: otherwise E. A. will be supplied.

Metol, in lb. bot.....per lb. $10 00
In ½ lb. bot.....per bot. 5 25
In ¼ lb. bot..... " 2 75
In oz. bot.....per oz. 75

Monarch Gold, No. 1....per bot. 50
No. 2..... " 1 00
No. 3..... " 2 00

Monarch Platinum, Solution.
No. 1.....per bot. 50
No. 2..... " 1 00

Oil, Castor in bulk.....per gal. 2 00
Turpentine, in bulk.... " 94

Platinite, E. A....per 15-gr. vial 55
E. A.....per ¼ oz. vial 3 25
" .....per ½ oz. vial 6 00
" .....per oz. bot. 11 50

Potassium, Bichromate, C. P. in lb. bot.....per lb. 44
Bichromate, C. P., in ¼ lb. bot. per bot..... 18
Bichromate. Com'l, in lb. bot. per lb..... 25
Bromide, in lb. bot.....per lb. 75
" in ½ lb. bot...per bot. 44
" in oz. bot.....per oz. 10
Carbonate, in 5 lb. bot..per bot. 90
" in lb. bot....per lb. 24
" in ½ lb. bot..per bot. 18
" in ¼ lb. bot. " 12
Cyanide, in lb. bot.....per lb. 60
" in ½ lb. bot..per bot. 35
Ferricyanide (Red):
In lb. bot.....per lb. 75
In ½ lb. bot.....per bot. 40
In ¼ lb. bot..... " 25
In oz. bot.....per oz. 10
C. P., lb. bot..... 1 25
" ½ lb. bot..... 65
" ¼ " 35
" oz. bot..... 14
Ferrocyanide (Yellow):
In lb. bot.....per lb. 39
In ½ lb. bot.....per bot. 24
In ¼ lb. bot..... " 16
In oz. bot.....per oz. 08
Iodide, in lb. bot.....per lb. 2 90
" in oz. bot.....per oz. 22

Potassium:
Meta-bisulphite, in lb. bot., per lb..... 88
Meta-bisulphite, in ½ lb. bot., per bot..... 48
Meta-bisulphite, in oz. bot. per oz..... 11
Oxalate in lb. box.....per lb. 20
" in 5 lb. box....per box 95
Permanganate, in oz. bot., per oz..... 08
Sulphocyanide, in lb. bot. per lb. 95
" in ½ lb. bot. per bot. 54
" in ¼ lb. bot. " 30
" in oz. bot....per oz. 14
Sulphuret in lb. bot.....per lb. 27

Potassa, Caustic, White, in lb. bot.....per bot. 66
Caustic, White, in ½ lb. bot. per bot. 38
" " in ¼ lb. bot. " 23
" " in oz. bot..per oz. 12

Soda, Caustic, Sticks, in lb. bot. per lb..... 52
Caustic Sticks, in ½ lb. bot. per bot. 31
" " in ¼ lb. bot. " 20
" " in oz. bot., per oz. 11
Acetate, Cryst., in lb. box. per lb. 27
" " in oz. bot. per oz. 07
" Fused, in lb. box, per lb. 44
Bicarb., Cryst., in 5 lb. box, per box, 34
" " in lb. box, per lb. 10
Carb., Cryst., C. P., in bulk, per lb. 06
" " " in 5 lb. bot. per bot. 50
" " " in lb. bot. per lb. 16
" " " in lb. box, per lb. 08
" " " in 5 lb. box, per box, 40
Citrate, in lb. bot.....per lb. 84
" in oz. bot.....per oz. 12
Hyposulphate, Cryst., in kegs of 100 lbs..... per keg, 3 50
Hyposulphate, Cryst., in lb. bozes..... .....per lb. 06
Hyposulphate, Pea Cryst., per 112 lb. keg..... 3 50
Hyposulphate, Pea Crystals, in lb. boxes.....per lb. 06
Hyposulphite, Granular, in kegs of 100 lbs..... ... per keg, 3 50
Hyposulphite, Granular, in lb. boxes.....per lb. 06
Meta-Bisulphite, in lb. bot. per lb..... 95
Meta-Bisulphite, in oz bot., per oz..... 11
Phosphate, in lb. box....per lb. 23
Sulphate, C. P., in lb. box, " 40
" Com'l lb. box... " 10
Sulphite, Crystal, E. A.:
In lb. bot..... ..per lb. 16
In ¼ lb. bot.....per bot. 10
In 25 lb. can.....per can, 1 67
In 10 lb. can..... " 74
In 5 lb. can..... " 40
In 1 lb. can..... " 10
Sulphite, Granular:
In 1 lb. bot..... per lb. 23
In 5 lb. bot.....per bot. 84
In 10 lb. can.....per can, 1 40
Sulphite Acid, in lb. bot..per lb. 40
Tungstate, C. P., in oz. bot., per oz..... 11

Sodium, Bromide, in oz. bot., per oz..... 10
Iodide, in oz. bot.....per oz. 30

Strontium, Iodide, in oz. bot., per oz..... 63
Muriate, in oz. bot.....per oz. 10
" in lb. bot.....per lb. 78

Tannin, in oz. bot.....per oz. 22

Uranium, Nitrate, in oz. g. s. b., per oz..... 62

Venice Turpentine.....per lb. 67

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CATALOGUE G.

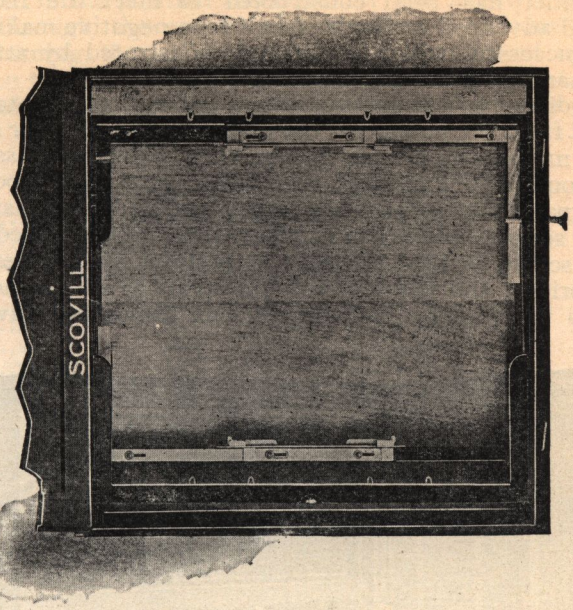
PHOTO ENGRAVERS' SUPPLIES

1904

THE ANTHONY & SCOVILL COMPANY
122-124 FIFTH AVENUE, NEW YORK

Catalogue A.—Lenses and Shutters.
" B.—Studio Cameras, Stands and Attachments.
" C.—Hand and View Cameras, Enlarging, Lantern Slide and Micrographic Cameras, Plate Holders and Carrying Cases.
" D.—Professional Studio Sundries.
" E.—General Photo Sundries and Photographic Publications.
" F.—Chemicals, Films, Papers and Plates.
" G.—Photo-Engravers' Supplies.

THE SCOVILL-LEVY PHOTO-ENGRAVERS' ADJUSTABLE SCREEN PLATE HOLDER.



(PATENTED).

The principal features of this holder are briefly:

FIRST.—The ease with which it is adjusted for different size plates and screens, by a simple sliding movement of the two inside frames to or from the center, thus dispensing with the expensive and troublesome use of kit frames.

SECOND.—The convenience by which the screen plate is accurately adjusted to the sensitized plate by means of the metallic sliding adjusters.

THIRD.—Different thicknesses in the screen plates are allowed for by means of a spring which always holds the plate accurately in place no matter what its thickness may be.

FOURTH.—A graduated scale on each screen adjuster makes it easy to insure absolute accuracy in determining the distance of the screen plate from the wet plate.

And, altogether, it is an ingeniously designed and beautifully constructed Holder, which will be found of indispensable aid to the Photo-Engraver.

These Holders are thicker than the ordinary plate holders, and if it is desired to use them on a camera the ground glass of which is focused for the ordinary plate holder, a new ground glass frame is necessary in order to adjust the focus. When ordering a holder to fit a camera in use, send the old holder or the old ground glass frame so that the new ones can be made to fit the camera. Also state the size of largest and smallest screen plate to be used in holder.

It is made in various sizes. Prices as follows:

	Holders Only.	Ground Glass and Frame.
8 x 10	$25 00	$3 00
10 x 12	32 00	3 25
11 x 14	40 00	3 50
14 x 17	44 00	4 00
17 x 20	48 00	4 50
18 x 22	52 50	5 50
20 x 24	59 00	6 50

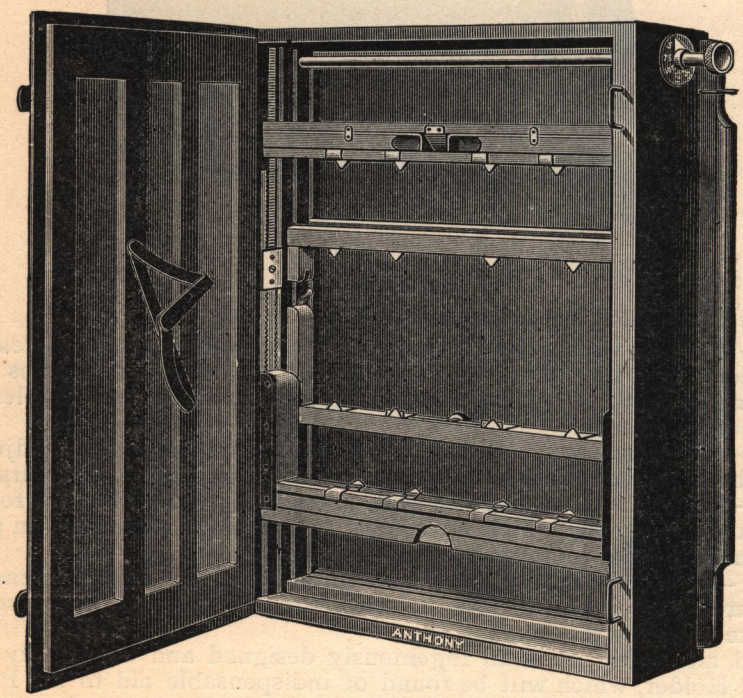
ANTHONY'S IMPROVED PATENT LINED SCREEN HOLDER.

This holder has been constructed to meet the requirements of improved and advanced methods of half-tone negative making. That we have been successful, will readily be demonstrated by attention to the points of advantage given below:

(*a*) The distance between the screen and negative plate is automatically adjusted from the outside of the holder by turning *one knob* only.

(*b*) The mechanism is such that exact parallelism is assured. Being constructed on sound and rigid principles, there is no loose movement between the parts that support the screen and sensitive plates, and both are perfectly secure and remain in place when once adjusted.

(*c*) The screen is held securely in position by new devices, without the use of springs, and will hold screens up to ⅜ of an inch thick, and from 5 in. up to ⅝ of an inch larger than dimensions given. Thus, a



14 x 17 holder will take a screen plate 17⅝ in. high by 17¼ in. wide. The smallest screen accommodated is 5 x 5 in.

(*d*) The separating indicator is located on the upper right hand corner in easy reach and view of the operator. The micrometer indicator is divided into thousandths of an inch, and permits a distance from surface to surface of from .025 to ½ an inch, therefore making it practicable for the finest as well as the coarsest ruled plate in use.

(*e*) All metal parts that might be corroded by the silver solution are kept from contact with it; other parts that are likely to come in contact with the drippings are made of hard rubber and silver. The drippings from the plate are caught in a trough which carries them to a bottle, so preserving the life of the holder and saving the silver solution.

(*f*) The old-fashioned brass spring on the door for holding the negative plate in position has been abolished, and with our new arrangement bulging of the plate is overcome, making the shape of the half-tone dots appear in their proper proportion.

(*g*) This new construction admits of the focusing being done in the holder with ease and accuracy. A ground glass with a clear circle in the centre, is placed in the position intended for the negative plate. Thus, by focusing through the screen, the actual dot or contrast is easily obtained by turning the indicator. For this manner of operating, the door is hung on the left side and the indicator on the right, making the focusing and adjustment as easy as when using the ordinary ground glass and frame.

Largest Plate.	Outside Dimensions.	Ground Glass and Frame.	Price.
For 8 x 10	12½ in. wide, 13⅜ in. high	$3 00	$25 00
" 8 x 10	13¾ " 13¾ "	3 00	25 00
" 10 x 12	15 " 15¾ "	3 25	32 00
" 11 x 14	17 " 17¾ "	3 50	40 00
" 14 x 17	20½ " 21 "	4 00	44 00
" 17 x 20	23½ " 24 "	4 50	48 00
" 18 x 22	26 " 26½ "	5 50	52 50
" 20 x 24	28 " 28½ "	6 50	59 00

CRYSTAL PLATE GROUND GLASS.

	¾ Ground.	1½ Inch Clear Circle in Centre.		¾ Ground.	1½ Inch Clear Circle in Centre.
8 x 10	$1 10	$1 50	17 x 20	$3 25	$4 90
10 x 12	1 40	1 80	18 x 22	5 20	5 60
11 x 14	1 80	2 20	20 x 24	6 30	6 70
14 x 17	2 80	3 20			

RULED CROSS-LINE SCREENS FOR HALF-TONE WORK.

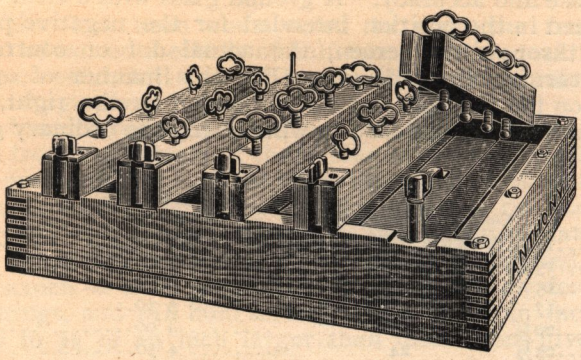
Sizes in Inches.	Lines per Inch. 75, 80, or 85.	100.	110 or 120.	125 or 133.	140 or 150.	160 or 175.	200.
6 x 8	$15 00	$18 00	$20 00	$22 00	$26 00	$32 00	$40 00
6½ x 8½	18 00	20 00	24 00	28 00	32 00	40 00	50 00
7 x 9	24 00	25 00	30 00	36 00	42 00	50 00	65 00
8 x 10	32 00	35 00	42 00	48 00	54 00	68 00	82 00
10 x 12	40 00	52 00	70 00	80 00	95 00	110 00	130 00
11 x 14	60 00	80 00	98 00	115 00	135 00	160 00	185 00
12 x 15	75 00	100 00	120 00	142 00	170 00	200 00	230 00
13 x 16	95 00	122 00	144 00	172 00	208 00	240 00	280 00
14 x 17	115 00	145 00	168 00	208 00	252 00	280 00	340 00
16 x 20	166 00	208 00	240 00	305 00	360 00	420 00	500 00
20 x 20	205 00	260 00	300 00	380 00	450 00	.....	.....

TRIAL SIZES.

Sizes in Inches.	Lines per Inch. 75, 80, or 85.	100.	110 or 120.	125 or 133.	140 or 150.	160 or 175.	200.
3¼ x 4½	$2 00	$2 00	$2 00	$2 00	$3 00	$5 00	$8 00
4 x 5	4 00	4 00	4 00	4 00	6 00	8 00	12 00
4¼ x 6½	6 00	6 00	6 00	6 00	8 00	10 00	16 00
5 x 7	9 00	9 00	10 00	12 00	14 00	16 00	22 00
5 x 8	12 00	12 00	12 00	14 00	16 00	20 00	28 00

For single-ruled screens, deduct 33⅓ per cent. Special quotations furnished on different rulings and sizes.

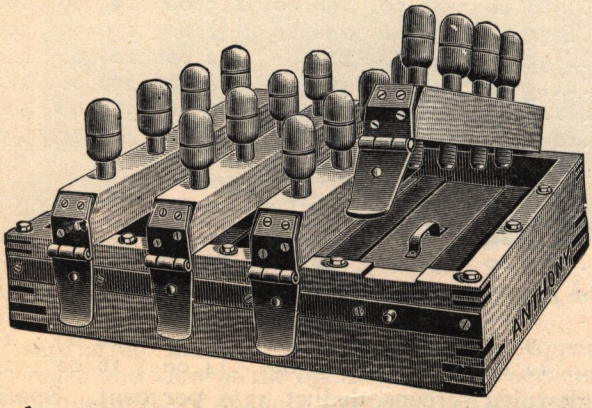
ANTHONY'S PROCESS PRINTING FRAME.



An improvement over the old heavy Process Printing Frame, made of best material, with strong iron pressure screws, heavy top and iron strips for screw bearings, bolts extending through the woodwork, with hinges and clutches as strong as iron can make them. This frame insures perfect distribution of pressure, and is to be depended upon in all particulars. Price, including one inch glass:

Size.	Price.	Size.	Price.
9 x 11	$10 50	18 x 21	$25 00
11 x 13	12 00	19 x 23	27 50
12 x 15	14 00	21 x 25	32 50
15 x 18	18 00	23 x 29	37 50
17 x 21	24 00		

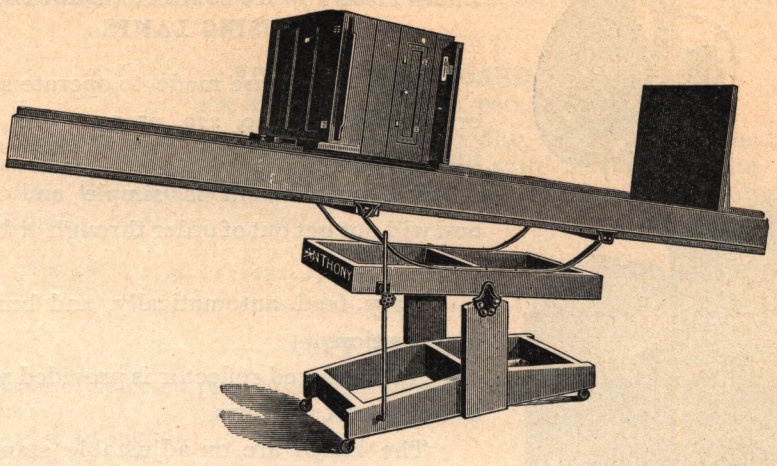
NEW YORK PROCESS PRINTING FRAME.



With wooden pressure screws and iron strips for screw bearings, very strong and light. Bolts extent through woodwork and hinges, and clutches are made with special reference to strength and durability. Price, including one inch glass:

Size.	Price.	Size.	Price.
9 x 11	$10 50	18 x 21	$25 00
11 x 13	12 00	19 x 23	27 50
12 x 15	14 00	21 x 25	32 50
15 x 18	18 00	23 x 29	37 50
17 x 21	24 00		

ANTHONY'S PROCESS CAMERA STAND.



This stand embraces simplicity, solidity, strength, convenient and easy adjustment.

The bed rests on steel springs, which effectually prevent any vibration, thus permitting negatives to be made perfectly sharp.

By new appliances the entire bed can be tilted, allowing the light to fall on the copy at any angle. By another adjustment the bed of the stand can be moved backward and forward, which enables the operator to get the copy at any distance from the light, without moving the focusing lamps.

Prices include copy board holder.

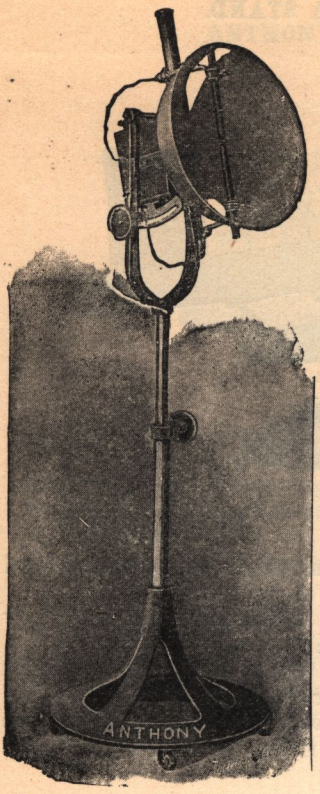
For	8 x 10	inch	Camera;	length	of bed,	8	feet.....	$15 00
"	10 x 12	"	"	"	"	9	"	18 00
"	11 x 14	"	"	"	"	10	"	21 00
"	14 x 17	"	"	"	"	12	"	24 00
"	17 x 20	"	"	"	"	15	"	27 00
"	18 x 22	"	"	"	"	18	"	30 00
"	20 x 24	"	"	"	"	20	"	36 00

The larger sizes are made with two columns as supports, in place of one, as shown in illustration.

CAMERA SWING.

Suspended from the ceiling or cross-beams, overcomes vibration perfectly.

For	8 x 10	inch	Camera;	length	of bed,	8	feet.....	$9 00
"	10 x 12	"	"	"	"	9	"	10 00
"	11 x 14	"	"	"	"	10	"	12 00
"	14 x 17	"	"	"	"	12	"	15 00
"	17 x 20	"	"	"	"	15	"	20 00
"	20 x 24	"	"	"	"	20	"	25 00



ANTHONY'S AUTOMATIC ELECTRIC FOCUSING LAMPS.

These lamps are made to operate singly or in series, on 110, 220, or 500 volts D. C. incandescent circuits.

The mechanism is simple and rigid, and will not get out of order through ordinary use.

They feed automatically, and burn in any position.

An improved reflector is provided which does not cast shadows.

The lamps are on adjustable standard, with or without rollers.

We guarantee the lamp in every respect, and will send them to any responsible party with the understanding that they may be returned should they not prove as represented.

FRICE LIST.

Direct Current. Automatic Lamps.

20-30	Amperes	in	Multiple,	110-Volts	$50 00
20-30	"	"	Series,	110 "	50 00
20-30	"	"	Multiple,	220 "	60 00
20-30	"	"	Series,	220 "	50 00
30-50	"	"	Multiple,	110 "	60 00
30-50	"	"	Series,	110 "	60 00
30-50	"	"	Multiple,	220 "	70 00
30-50	"	"	Series,	220 "	60 00

Alternating Current. Automatic Lamps.

20-30	Amperes, 52 or 104-Volt		$60 00
30-50	" " "		70 00

Weight of lamp complete, about 45 lbs.

When ordering lamps, state whether the continuous or alternating system of lighting will be used, together with the voltage of the same, and whether to operate singly or in series.

CARBONS.

Imported,	$\frac{9}{16}$	x 12 inch,	Cored,	per 100	$3 40
"	$\frac{9}{16}$	x 7 "	Solid,	" 100	3 25

RUBBER PADS.

Pure Gum, cut to any size, from any thickness, per lb.....$1 50

ROTARY COPY BOARD.

FOR THE THREE COLOR PROCESS.

The board is provided with a revolving disc, which enables the operator to adjust his copy to different angles with the screen-plate, thus discarding the necessity of making the adjustment by moving the screen-plate.

PRICE:

36 x 36..... .....each, $5 00

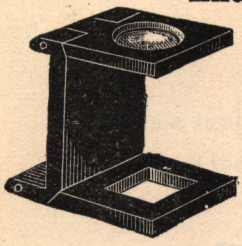
COPY BOARDS.

Made of selected pine lumber, well seasoned, clamped with dovetailed battens.

16 x 20	inches....	each,	$0 90
18 x 22	"	"	1 00
20 x 25	"	"	1 15
22 x 31	"	"	1 40
25 x 34	"	"	1 80
27 x 41	"	"	2 25

Larger sizes made to order.

MAGNIFYING GLASSES—LINEN TESTER.



These are very powerful, compact, and cheap magnifying glasses, and are very useful for counting the lines in screens and the dots in negatives and proofs.

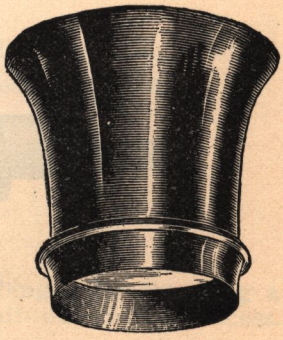
			Brass Lacquered.	Nickeled.
¼ inch	Aperture.....	each,	$0 35	$0 65
½ "	"	"	40	70
1 "	"	"	2 60	3 30

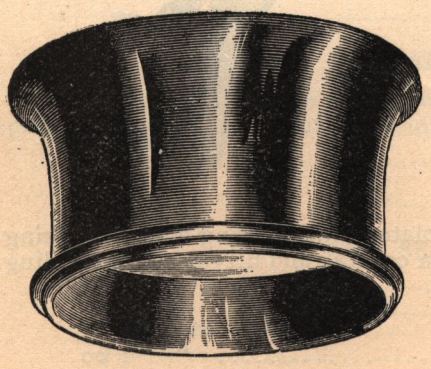
ENGRAVER'S EYE GLASS.

RUBBER FRAME.

Assorted foci from 2 to 4 inches.

Price.....each, 35 cents.

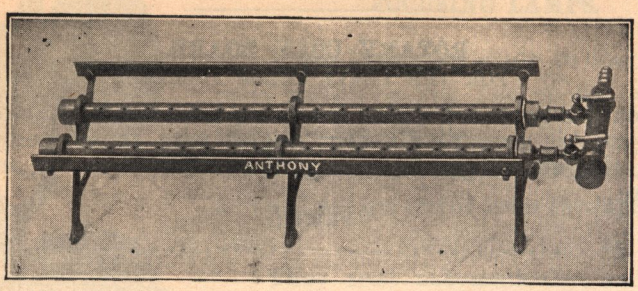




DOUBLE PLANO-CONVEX LENSES.

1⅜	inches	diameter.....	each,	$1 40
1⅝	"	"	"	1 65
1⅞	"	"	"	2 00
2⅛	"	"	"	2 50

ANTHONY'S GAS FURNACE.



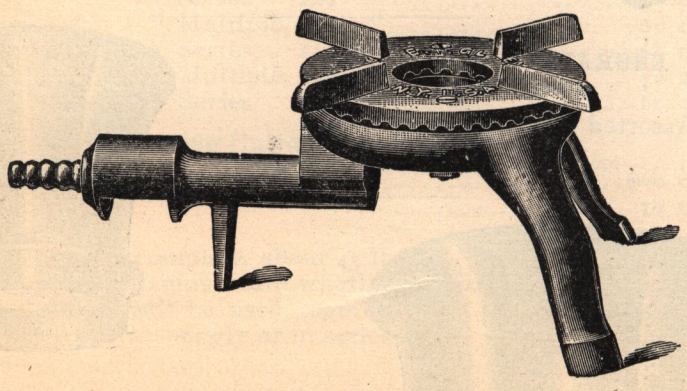
These Furnaces are constructed on the principle of a Bunsen Burner, a great amount of heat being produced with a small expenditure of gas. A support is provided on either side, upon which the plate is allowed to rest while being heated.

The advantage of this furnace over others is, that any size plate can be burnt in perfectly even, the edges being heated the same as the centre, thus overcoming an unequal spread of the powder, as is the case with other burners.

Price for heating plates 18 inches wide and any length.....$6 00

Prices for larger sizes on application.

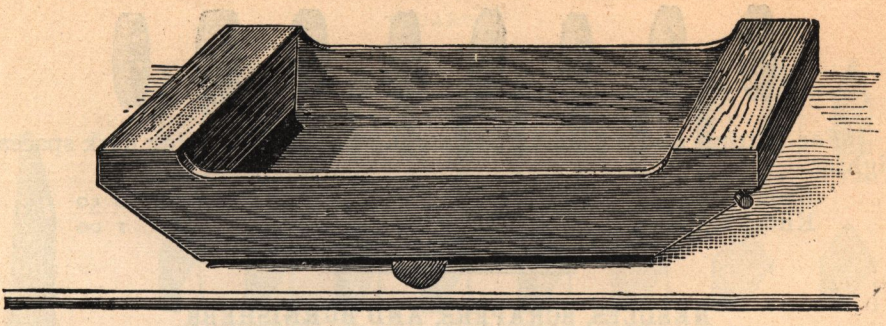
NO. 10 LUCIFER STOVE.



For burning in half tones, drying plates while coating with sensitizing solution, etc. This burner has thirteen central, and fifty-one surrounding jet holes, and ten-inch spread of flame.

Plain iron.....each, $0 75
Nickeled iron..... " 1 00

ETCHING TUB.



Constructed on a principle found to give the most satisfaction to professional etchers. Is provided with a new arrangement which prevents the acid solution from splashing in the operator's face.

20 x 30 inches.....$8 00
24 x 45 " 9 50

We furnish steam attachments, stands, drain troughs, etc. Prices on application.

WHIRLER.

For coating copper or zinc plates with sensitizing solution.

Price.....each, $1 00

HAND REST.

Useful as a support to the hand while touching up prints on zinc.

Price, 18 inches.....each, 50 cents.

EGG BEATER.

Used for beating the albumen when making zinc sensitizing solution.

Price.....each, 25 cents.

BOWL.

Price.....each, 25 cents.

ROSE TAP.

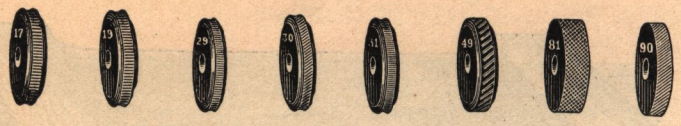
To be attached to the faucet with rubber tubing. For throwing a spray when washing out and developing print in half-tone enamel process.

Price.....each, 50 cents.

INK SPATULAS.

7-inch.....each, 80 cents.

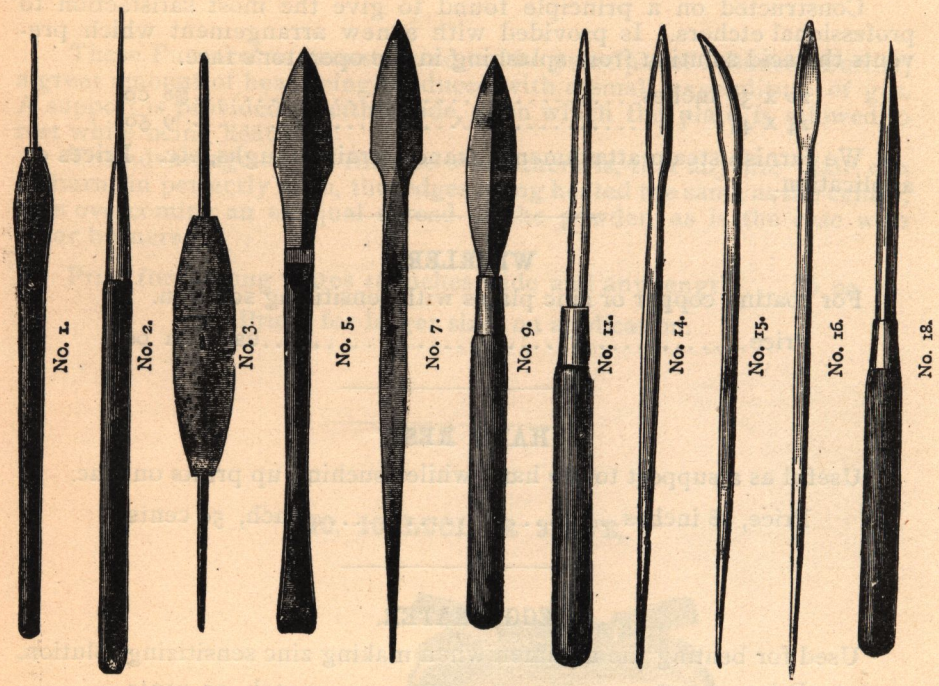
KNURLS.



For dotting and softening outrunning lines, and making dark spaces lighter.

Knurls.....each, $0 50
Knurl Holders..... " 1 00

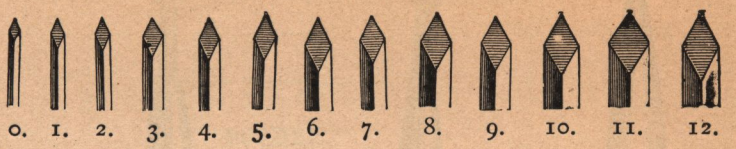
NEEDLES, SCRAPERS, AND BURNISHERS.

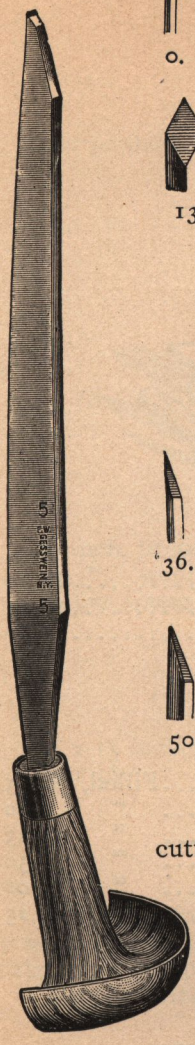


No.		Each.
1.	Steel Etching Needle, ebony handle, various sizes	$0 55
2.	" " " conical point, ebony handle, various sizes.	40
3.	" Dry Point, double cork handle	40
4.	" Scaper, double blade, steel point, ebony handle	1 15
5.	" " " " broad, ebony-pointed handle	1 15
6.	All-Steel Scraper, single blade, pointed handle	65
7.	" " double " " "	80
8.	" " narrow double blade	40
9.	Steel Scraper, double blade, walnut handle	80
11.	" " triangular pointed, small rosewood handle	1 60
12.	" " " " medium " "	1 70
13.	" " " " large " "	1 80
14.	All-Steel Burnisher, double, round-pointed handle	60
15.	" " curved to side, round-pointed handle	60
16.	" " " convex, " "	60
18.	" " oval point, small rosewood handle	65
20.	" " " " large " "	90

GRAVERS.

SQUARE.

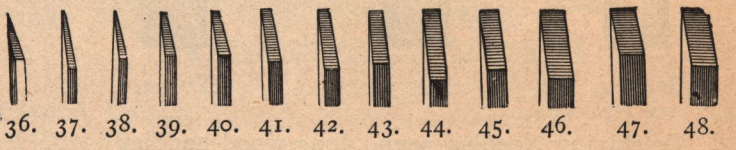




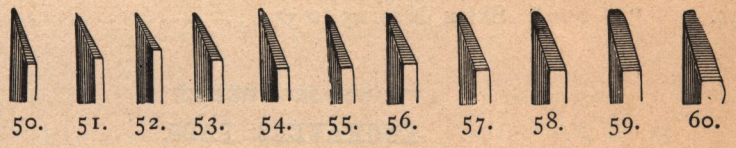
OVAL.

POINT.

FLAT.



ROUND.



LINERS OR SHOOTERS.

These are made in great variety, and are adapted for cutting high-lights and vignetting half-tones.

PRICES:

Square,	1 to 8	each, $0 15
"	9 " 12	" 17
"	13 " 20	" 20
Oval, Flat, Point, or Round		" 10
Liners, for Metal		" 35

GRAVER HANDLES.

Maple ..... doz., $0 30

GRAVERS.—Continued.

No. 24.

No. 30.

No. 31.

No.		Each.
24.	Engraving Needles, round, long wood handles	$0 30
30.	Roulettes, for Tinting, Nos. 1 to 10	1 25
31.	" " Skies, Nos. 25 to 33	1 50

ENGRAVERS' PADS.

4 inch	Filled,	$0	75
5 "	"	1	00
6 "	"	1	25
7 "	"	1	50
8 "	"	2	00
9 "	"	2	25

MATTING PUNCHES.

For lowering and blending the edges of half-tones.

Price.....each, 50 cents.

NAIL PUNCHES AND SETS.

Per pair.....50 cents.

TYPE-HIGH GAUGE.

This useful tool should be in every shop.

Price.....each, $2 40

SOLDERING COPPERS.

For soldering injured parts of plate, etc.

Price.....each, 50 cents.

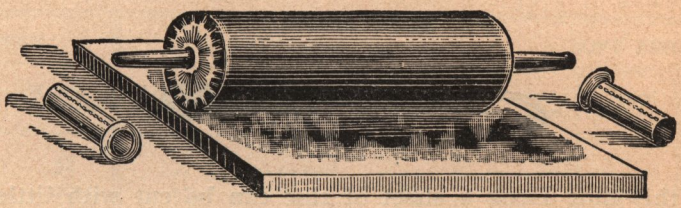
SOLDER.

Specially prepared for zinc.

Per pound.....30 cents.

LITHOGRAPHIC HAND ROLLERS.

FOR ROLLING UP OR COATING ZINC PLATE.



12 inch, prepared, French	each,	$7 50
12 " unprepared, "	"	6 00
Roller Cases	"	1 75

INKING SLABS.

15 x 15 inches	each,	$2 25
15 x 18 "	"	2 50

COMPOSITION ROLLERS.

Cast ready for use. Adapted for inking cuts when proofing; also used by some in inking the sensitive zinc plate after exposure, as a heavier coating can be applied than with a lithographic roller.

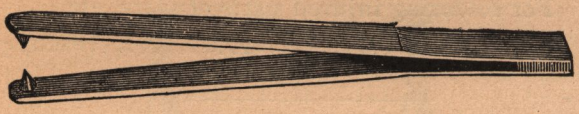
6 inches long, with one handle	each,	$2 50
12 " " " two handles	"	3 50

PINCERS.

For handling zinc when heating.

5 inches, wide nose	each,	$0 50
6 " " "	"	75

CALIPERS.



Price.....each, $2 50

HAND VISES.

Price.....each, $1 25

ZINC HOOK.

With this Zinc Hook a sheet of zinc can be cut with little effort, leaving a smoother edge than when cut with a saw.

Price.....each, $1 25

MOUNTING SCREWS AND NAILS.

Screws, ¼, ⅜, ½ inch lengths.....per gross, $0 20
Nails..... " pound, 20

OIL STONES.

BEST FOR GRAVERS.

Price.....each, 50 cents.

BLOCKING WOOD.

This lumber is specially selected for blocking, and is thoroughly seasoned. The birch comes in thickness for 16 gauge metal only; the mahogany we furnish for any gauge. Not less than 20 square feet sold.

Birch, per square foot..... 16 cents
Mahogany, per square foot..... 30 "

BOXWOOD.

For wood engravers, cutting tints, etc. It is type-high, requires no preparation for use. Price, according to quality, from 3 cents to 10 cents per square inch.

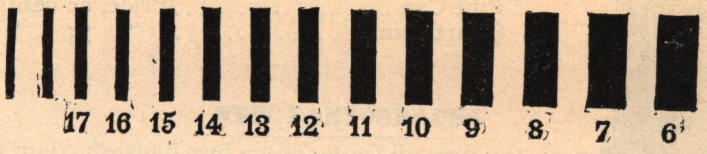
ZINC AND COPPER.

We pay particular attention to this line, being direct agents for the largest mills in the United States.

Our polished metals are ready for making the print when received from us, it being necessary only to go over them with charcoal to remove oxide or dirt.

THICKNESS OF SHEET METAL.

STUBS' GAUGE.



APPROXIMATE WEIGHTS OF 1 SQ. FT. OF COPPER AND ZINC, OF DIFFERENT GAUGES.

COPPER.		HARD ZINC.			SOFT ZINC.		
Stubs' Gauge.	Weight in Ounces.	American Zinc Gauge.	Stubs' Gauge.	Weight in Pounds.	American Zinc Gauge.	Stubs' Gauge.	Weight in Pounds.
19	32	....	....	....	....	....	....
18	40	17	18	1.87	17	18	16.7
17	46	19	17	2.25	19	17	2.07
16	48	19½	16	2.44	19½	16	2.24
15	56	20	15	2.62	20	15	2.39
14	64	21	14	3.00	21	14	2.76
13	70	22	13	3.37	22	13	3.10
12	81	23	12	3.75	23	12	3.45
11	84	24	11	4.70	24	11	4.30
10	100	....	....	....	....	....	....
9	110	....	....	....	....	....	....
8	123	....	....	....	....	....	....
7	134	....	....	....	....	....	....
6	151	....	....	....	....	....	....

Zinc and Copper are sold in the following gauge and size sheets:

Hard Zinc—16 gauge; sizes, 14 x 16, 18 x 24, 22 x 28, 15 x 36.
Soft Zinc—16 gauge; sizes, 16 x 24, 15 x 36.
Copper—Gauges, 14, 16 and 18; sizes, 20 x 24, 15 x 36, 16 x 24, 18 x 22.

PRICES:

QUALITY AND CONDITION.	25 lbs. or more.	50 lbs. or more.	100 lbs. or more.	500 lbs. or more.	1,000 lbs. or more.
Hard Zinc Polished.....	.20	.18	.16	.15	.14
Soft " "	.32	.30	.28	.27	.26
Copper Polished.....	.38	.36	.34	.33	.32

SMALL SIZES:

Hard Zinc, polished, per square inch..... 1½ cents.
Soft " " " " ..... 2 "
Copper, polished, " " " ..... 3 "
Prices subject to change without notice.

When ordering, be careful to specify size and thickness, otherwise we will use our own judgment.

SAFETY BENZINE CAN.

No fire risk or evaporation. Approved by the Board of Fire Underwriters. Always closed when not in use. The flow of benzine, naphtha, or turpentine is regulated by the pressure of the second and third fingers upon a circular plate on the nozzle.

Pint Can.....Price, 60 cents.
Quart Can..... " 75 "

SPONGE RUBBERS.

For cleaning drawings. A very superior quality; firm; does not crumble or harden.

1 x 2 x 1 inches..... .....each, 15 cents.
3 x 2 x 1 " ..... " 40 "
4 x 3 x 1 " .... " 85 "

DRAWING INKS.

Permanent Chinese White.....each, 25 cents.
Higgins' General..... " 25 "
" Waterproof..... " 25 "

CONTE'S CRAYONS.

For drawing on Ross's or Stipple Papers.

No. 1, Hard; No. 2, Medium.....per dozen, $1 20

KORN'S CRAYONS.

Square.

Nos. 1, 2, 3, and 4, Box of dozen.....$0 35

E. FABER'S PHOTO SKETCHING PENCILS.

Are adapted to work which is intended to be photo-engraved. The lead makes a lustreless mark which will give clear photographic reproduction.

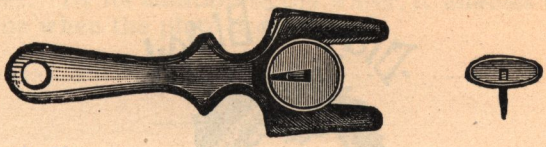
Soft, Medium Hard, or Hard..... .....each, $0 10
" " " " .....dozen, 1 00

DRAWING PENS.

Gillott's Mapping, No. 291, on cards..... .per dozen, 55 cents.
" " " 290, in boxes..... " 45 "
" " " 170, " ..... " 12 "
" Crow Quill, No. 659, on cards..... " 55 "

THUMB TACKS.

Solid Steel, in boxes of 100, with Lifter.



No. 808. $\frac{5}{16}$ inch diameter.....per box, 40 cents
" 810. $\frac{1}{2}$ " " ..... " 60 "

NEW PANTOGRAPHS.

No. 5. Finely finished and satisfactory instrument, in box...each, $0 50
" 3. Brass mounted, with brass elbow-joint, wheel, pencil holder and movable point, in box.....each, 1 50

DRAWING BOARDS.

Pine, plain, hardwood battens screwed on, screws in round iron washers. This arrangement permits the wood to shrink without splitting, and the board remains true.

12 x 17 inches.....each, $0 85
16 x 21 " ..... " 95
18 x 24 " ..... " 1 15
20 x 26 " ..... " 1 60
23 x 31 " ..... " 2 00
30 x 42 " ..... " 3 25

T SQUARES.

PEAR WOOD—FIXED HEAD.

No. 1285. 15 inch.....each, 15 cents.
" 1286. 18 " ..... " 20 "
" 1288. 30 " ..... " 30 "
" 1291. 48 " ..... " 55 "

TRIANGLES.

TRANSPARENT AMBER—OPEN.

45°

No. 1620. 5 inches.....each, $0 50
" 1622. 7 " ..... " 65
" 1624. 9 " ..... " 90
" 1626. 11 " ..... " 1 30

30°–60°

No. 1630. 6 inches.....each, $0 40
" 1632. 8 " ..... " 55
" 1634. 10 " ..... " 72
" 1636. 12 " ..... " 1 05

ETCHING POWDERS.

Our Etching Powders are positively the best the market affords. They form a stronger acid resist than other brands, melting smooth, without pinholes, and will not burn in brittle.

PRICES:

	Per lb.	5 lb.	10 lb.
Extra Dragon's Blood	$1 25	$5 75	$10 00

ANTHONY'S XXX POWDER.

This is a special preparation used by applying to the plate after the first powdering. It saves time, prevents spreading of the lines, saves one powdering, and makes a top in connection with Anthony's Special that cannot be excelled.

Per pound ..... 75 cents.

ZINC ETCHING FLUID.

Prepared for etching zinc. Etches cleaner and faster than nitric acid.

7 lb. g. s. b	$0 85
Carboys (carboys $1.50 extra), per lb	05

ETCHING POWDER BOXES.

It is absolutely essential that the etching powder is kept free from foreign matter. These boxes are specially designed for that purpose.

PRICE:

18 x 18 inches ..... each,	$2 00
24 x 24 " ..... "	3 00

ANTHONY'S HALF TONE DEVELOPING POWDER.

Will be found to help the inexperienced when developing half-tone prints on copper. By its addition to the water, it enables the operator to easily determine when the plate is developed.

4 oz..... 75 cents.

ANTHONY'S ETCHING INK.

This Ink is made expressly by us for rolling up the zinc plate after exposure. It has exceptional acid resisting power, which makes etching inks desirable.

¼ lb. cans	each,	$1 75
½ " "	"	3 00
1 " "	"	5 00

ANTHONY'S PROOF INK.

Prepared expressly for making fine line and half-tone proofs on coated paper.

No. 1.

1 lb. can		$5 00
¼ " "		1 35

No. 2.

1 lb. can		$2 00
¼ " "		60

ANTHONY'S STRIPPING COLLODION.

1 pint bottle	each,	$0 75
½ gallon can	"	2 75
1 " "	"	5 00

ANTHONY'S RUBBER STRIPPING SOLUTION.

This Solution is made from a well-tested formula, having been used for years by professional process workers.

1 pint bottle	each,	$0 40
½ gallon can	"	95
1 " "	"	1 40

RUBBER CEMENT.

Is a liquid rubber, the consistence of molasses, used for stripping films. Can be diluted over one-half with benzole or naphtha, making it by far the cheapest and best rubber solution on the market.

PRICE:

½ pint can	$0 30
Pint "	60
Quart "	1 20

LE PAGE'S FISH GLUE.

Is undoubtedly the standard of excellence, and that its superiority is known is attested by its largely increasing sales.

NEW STYLE PATENT CANS.

Half pints	each,	$0 30
Pints	"	50
Quarts	"	90
Gallons	"	2 50

CLARIFIED FISH GLUE.

This Glue is prepared expressly for making half-tone solution, and will be found to give better results than the ordinary liquid glue. Being put up in glass bottles it is not affected by corrosion, as is the case with the tin packages. A well-recommended formula accompanies each bottle.

PRICE:

1 pint	$1 00
1 quart	1 65

In ordering, be sure to specify CLARIFIED

COPPERING SOLUTION.

FOR COPPER-FACING ZINC PLATES WITHOUT A BATTERY.

This preparation is not designed to protect zinc cuts against wear, merely as a protection against oxidation.

Price.....1 pint bottle, 75 cents.

The engraver's charcoal handled by us is of the best, being made by a manufacturer of ten years' experience. The No. 1 grade comes eight pieces to the pound.

No. 1 grade, 1½ x 1½ x 6 in., for finishing, per lb.....$2 50
" 2 " 3¼ x 2¼, for cutting down and grinding, per doz..... 1 50

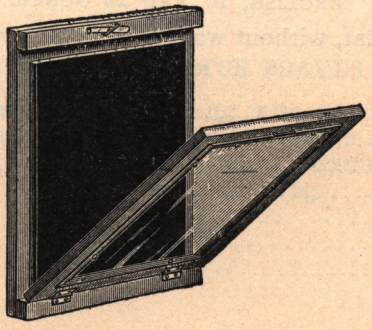
Special prices by barrel.

POLISHING MATERIALS.

Emery Flour, per lb	$0 15
Pumice Stone, lump, per lb	15
Rotten Stone, powdered, per lb	20
Rouge, nickel platers, per lb	60
*Scotch Stone, irregular pieces, per lb	15
* " " sawed into cubes, 6 to 8 inches long by 1½ or 2½ in. square, per lb	30
Whiting, per lb	10

*Our Scotch Stone is the best grade Scotch Hone.

COPY HOLDER.



With this device, copy that has been rolled or crumpled can be made to lie flat, without multilating with nails or thumb tacks.

14 x 17 inches.....each, $4 50

HEAVY PLATE GLASS.

For Printing Frames. Perfectly clear and strong, without flaws or scratches.

8 x 10,	one inch thick, each	$2	30
10 x 12,	" " "	3	00
11 x 14,	" " "	4	00
14 x 17,	" " "	6	00
17 x 20,	one inch thick, each	$8	75
18 x 22,	" " "	9	75
20 x 24,	" " "	12	00

PLATE GLASS.

For Negative Supports, when printing on zinc or copper in printing frame. It is perfectly flat, finely polished, and about ¼ inch thick.

8 x 10,	each	$0	38
10 x 12,	"		56
11 x 14,	"		78
14 x 17,	"	1	20
16 x 20,	each	$1	70
18 x 22,	"	2	24
20 x 24,	"	2	70

CRYSTAL PLATE GLASS.

This glass, for half-tone negatives, is unequaled. It is about ⅛ inch thick, perfectly polished and flat.

8 x 10	each,	$0	34
10 x 12	"		48
11 x 14	"		72
14 x 17	"	1	08
16 x 20	each,	$1	76
18 x 22	"	2	00
20 x 24	"	2	68

NEGATIVE GLASS.

FRENCH.

	No. of Lights Per Box.	Per Doz.	Per Box.
8 x 10 inches	90	$1 56	$9 70
10 x 12 "	60	2 34	9 70
11 x 14 "	47	3 96	11 70
14 x 17 "	31	5 94	11 70
16 x 20 "	23	8 44	11 70
18 x 22 "	18	12 12	15 10
20 x 24 "	15	14 52	15 10

ENGLISH, 16 AND 26 OUNCE.

Perfectly flat, without waves. Inferior only to plate.

	No. of Lights Per Box.		16 oz.	26 oz.
8 x 10 inches	90	Per doz	$1 60	$2 20
10 x 12 "	60	"	2 40	3 24
11 x 14 "	47	"	3 72	4 72
14 x 17 "	31	"	5 94	7 14
16 x 20 "	23	"	8 70	11 08
18 x 22 "	18	"	12 36	13 48
20 x 24 "	15	"	14 80	16 20

CRYSTAL PLATE GROUND GLASS.

	¾ Ground.	1½ inch Clear Circle in Centre.
8 x 10	$2 00	$2 25
10 x 12	2 20	2 50
11 x 14	2 40	2 80
14 x 17	3 80	4 20
17 x 20	4 50	5 00
18 x 22	5 20	5 60
20 x 24	6 30	6 70

TRACING PAPERS.

FRENCH, VEGETABLE, EXTRA FINE.

No. 4790. 13 x 17 inches ..... per quire, $0 65
No. 4794. 13 x 24 " ..... " 1 65

OXFORD.

Imperial, 20 x 30 ..... per quire, $1 00
Double Elephant, 30 x 40 ..... " 2 00

FRENCH SHEET GELATINE.

Thin, 13 x 19 inches ..... per doz., $1 75
Medium, 13 x 19 " ..... " 2 25
Thick, 13 x 19 " ..... " 3 00

BRISTOL BOARDS.

22 X 28 INCHES.

"Eagle," for pen and ink drawings ..... per dozen, $0 96
"P. O." Superior, for pen and ink. Especially adapted for process work ..... " 1 45

ENAMEL SCRATCH BOARDS.

These Boards admit of free working with pen and brush; Have an extra enameled surface that may be scratched or scraped with suitable instruments for the purpose of white lining, facsimile, or blacks, picking out lights, or making alterations in the drawing.

PRICES :

22 x 28 inches, per dozen sheets $3 60
14 x 22 " " " " 1 80

COLOR SCREEN HOLDERS.

For 2½ x 2½ Color Screens $3 25
" 3½ x 3½ " " 3 75

SPECIAL DIAPHRAGM.

We are prepared, at all times to make diaphragms of special shape, suitable for obtaining various effects in half tone negatives.

ACID TUBS.

FOR SOAKING NEGATIVE GLASS PREPARATORY FOR CLEANING.

Stoneware, heat and acid proof, 24 in. wide, 26 in. long, 16 in. deep, each	$30 00
Glass, 3 gallon, 6 x 11 x 11 in	2 50
" 10 " 12⅝ x 14 x 15 "	7 00
" 18 " 14 x 16½ x 21 "	9 00
" 20 " 15½ x 30 x 12 "	10 00

POWDERING BRUSHES.

CAMEL'S HAIR, HEAVY.

	Each.
2 inch	$0 65
2½ "	80

FITCH HAIR, HEAVY.

	Each.
2 inch	$0 65
2½ "	80

EXTRA HEAVY CAMEL'S HAIR POWDERING BRUSHES.

	Each.
5 inch wide, ¾ inch thick	$4 35
6 " " ¾ " "	5 25
7 " " ¾ " "	6 45

PHOTO-LITHO TRANSFER PAPER.

Sheets, 24 x 36 inches	each, $0 60
" " "	dozen, 6 00

SPONGES—CHAMOIS.

Sponges will be found useful in cooling off zinc plates during process of etching, while the chamois are used for drying, etc. The price will depend on size and quality.

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