

PRICE \$1.75

The American Annual of Photography

TRADE MARK REGISTERED: 36,338



1924



General Sales Agents

GEORGE MURPHY, Inc.
57 EAST NINTH STREET, NEW YORK



Look for
"Velox"
on the back

*Prints of the
Superior Sort*

The first evidence of careful finishing is the quality of materials used. When a Developing and Printing house can point to the trade name "Velox" on the back of the prints they deliver to you, it is an indication that they use the best possible equipment and chemicals as well as proof that they use the best possible paper. It shows that work of the superior sort—the kind you want—is their aim.

Insist on Velox—the paper that exactly meets the requirements of amateur negatives—and know you're getting the best results possible from your films.

EASTMAN KODAK COMPANY
ROCHESTER, N. Y., *The Kodak City*

Photography 1924

George Murphy, Inc. Photographic Materials

Headquarters for:

Established 1878

MOUNTS

Eagle, Collins and Wood Mountings

LENSES

Wollensak, Goerz, Voightlander, Ross, Gundlach, or any other make of standard lens.

PAPERS

Elephant Brand Paper, Cyko, Azo, Haloid, Kresko, Solio, Artura, Defender and all Bromide Papers; in fact, any brand of paper.

PLATES

Xactone, Central, Hammer, Cramer, Seed, Stanley, Standard and W. & W.

VIEW CAMERAS

Gundlach, Seneca and Eastman

PORTRAIT CAMERAS

Century Studio and New York Studio

PRINTING MACHINES

Lares, Pako, Crown, F. & S., Artura and Presto

Send us your orders. Our Prices and service are right.
We invite correspondence on anything photographic.

Large mail order department

Send for free copy of *SNAP SHOTS*
(Our monthly magazine.)

Mammoth Catalogue of Photographic Supplies

GEORGE MURPHY, INC.

57 East Ninth Street

New York City

Developing—Printing—Copying—Enlarging

Everything Photographic

5.00
Important announcement concerning—

Enlarging Cyko

IN keeping with other forward strides in the Ansco line of sensitized papers, we have stepped up the speed of Enlarging Cyko to double what it was. This makes it much the fastest projection paper not designated as "bromide."

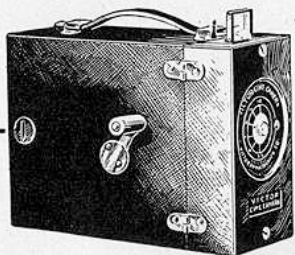
Despite its high speed, the paper can be handled safely in the same orange light used when working slow contact papers such as Noko and Professional Cyko. This is an exclusive Ansco feature.

For enlarging there is no other paper so good as this. The best contact quality can be matched with ease. The sepias are superb. If you wish to get away from the cheap commercial type of enlargement, this is the paper to use. Desired results come easily.

Four surfaces: Plat (double weight only), Buff (double weight only), Studio, a semi-gloss surface (single weight and double), and Glossy (single weight and double).

Two grades: Regular, for most negatives, very plastic, and Contrast for the negative exceptionally weak or thin.

ANSCO COMPANY
BINGHAMTON, N. Y.



Make Your Own Motion Pictures

at a new low cost,
thru the use of Eastman
Ciné-Kodak 16 millimeter
reversible film, and

With the New Victor Ciné-Camera

Low camera cost and low film expense now render motion picture photography as inexpensive as the ordinary lifeless kind.

(Compared to making standard motion pictures the old way the cost is cut to one-eighth and without loss of quality).

Price \$55

The Victor Ciné-Camera is equipped with a high grade F3.5 Anastigmat lens, direct view finder, film measuring dial, exposure guide, all-metal construction. Perfect film mechanism. Thoroughly guaranteed. Price \$55.

Weight 5 pounds. Size 3x6x8 inches. Convenient to carry or fits into any travelling bag.

Takes Five Minutes of "Movies"

It is easy to make perfect motion pictures, scenes of any length up to nearly five minutes duration with one loading of the camera.

"Always a Picture" with the Victor Ciné-Camera

Ask your dealer, or write the factory for booklet that tells the whole story of how to take and show Your Own Motion Pictures.

Victor Animatograph Co.

(Incorporated)
Davenport Iowa

"What Lens Shall I Buy?"

There is a Bausch & Lomb photographic lens which will exactly fulfill your most exacting requirements. Different kinds of work require different types of lenses. The best lens for portraits is not necessarily the best one for outdoor scenes.

To assist you in selecting the proper lens for your own work, we want to send a copy of "What Lens Shall I Buy?" This illustrated booklet describes the Bausch & Lomb lenses and outlines the uses for which each is primarily intended. It will prove of much value in making the proper selection.

Manufacturers of
Photographic
Lenses and Shutters,
Photomicrographic
Apparatus,
Telescopes,
Binoculars
and Other
High Grade
Optical
Products

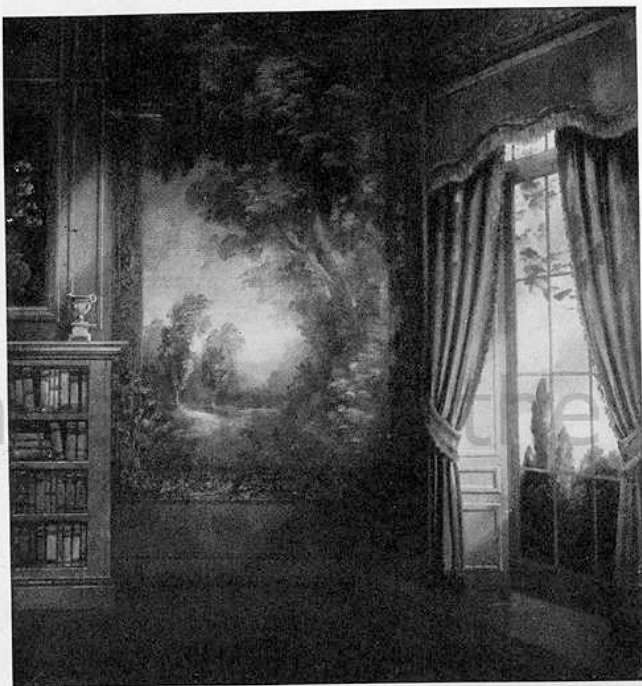


Bausch & Lomb Optical Co.

New York Washington San Francisco
Chicago Rochester, N. Y. London

Rough & Caldwell Company

ARTISTS AND DESIGNERS OF
PHOTOGRAPHIC BACKGROUNDS



No. 7223

8 x 8.....\$28.80 8 x 10.....\$36.00
8 x 8 x 7.....\$37.20

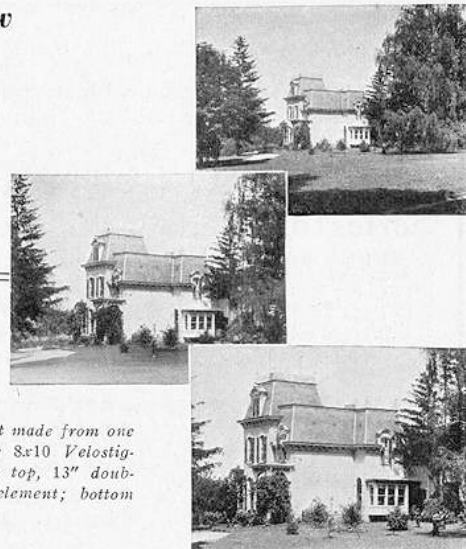
An Artistic Background is the greatest aid to Studio Portraiture. An Artistic Background is a satisfaction to the photographer and a pleasure to his client. New Designs shown in photographs every few months. We are now supplying the **FLATTED OIL BACKGROUND**. Flatted Oil Grounds are indestructible, rolling without cracking, impervious to dampness or wet, and specially suited for Resort trade, where exposure cannot be avoided. If you desire a Background, write us and state style desired, and we will submit photographs for inspection.

ROUGH & CALDWELL CO.

57 East Ninth Street

New York City

Announcing a new
triple-convertible
anastigmat



(Illustrations at the right made from one point of view with the 8x10 Velostigmat Series Ia f6.3-f7.7; top, 13" doublet; middle, 20" rear element; bottom 25½" front element.)

A highly-corrected, triple-convertible anastigmat which conforms to the Wollensak standard of supreme quality and reasonable price—that's the new Series Ia Velostigmat f6.3—f7.7. The doublet is an anastigmat of unusual perfection, ideal for all-round and commercial work. The single elements, with their long foci, aid in securing larger images of distant objects. This versatile lens would be a valuable addition to any equipment.



Further information on request. If you are interested in our other Velostigmats, the Verito Diffused Focus f4, or the speedy Vitax f3.8, ask for our general catalog.

WOLLENSAK OPTICAL COMPANY

Manufacturers of the Binascope pocket binocular.

ROCHESTER, N. Y.

U. S. A.

TENNANT AND WARD, 103 PARK AVE., NEW YORK
supply any photographic book published if in print.
Send for latest list of books. Tell us your special needs.

THE PHOTO-MINIATURE Series of Handbooks on Photography

Recent issues deal with the following subjects: No. 191: Outdoors with a Hand Camera. No. 190: Stereophotography. No. 189: Making an Auto-Focusing Enlarger. No. 188: The Exhibition Print. No. 187: Lenses—in Use. No. 186: Bromoil Prints and Transfers. No. 185: Kallitype and Allied Processes. No. 183: Color Photography. No. 182: Studio Design and Construction. No. 181: The Airbrush and the Photographer. No. 174: Home and Garden Portraiture.

Price, postfree, 40 cents (½d) each. Per year, \$4.00 (16/-).

THE SCIENCE AND PRACTICE OF PHOTOGRAPHIC PRINTING

By Lloyd I. Snodgrass. A practical and comprehensive working handbook to all processes. 304 pages. \$3 (13/-).

PHOTOGRAPHY AS A SCIENTIFIC IMPLEMENT

A collective work by well-known experts. Sections on Photographic Optics; Theory of Photographic Processes; Photography in Physics; in Astronomy; in Engineering and Metallurgy; Photo-micrography; Color Photography; Photo-Surveying; Aero Photography; Applied to Printing; as Witness and Detective; Techniques of Kinematography. The latest information on the technical and scientific side of photography.

549 pages, profusely illustrated. \$9.00 postfree.

PRACTICAL AMATEUR PHOTOGRAPHY

By W. S. Davis. A common sense guide for beginners in photography. Covers all branches. Illustrated. \$2 (9/-).

PRINCIPLES of PICTORIAL PHOTOGRAPHY

By John Wallace Gillies. A straight forward discussion of the principles of picture making, with illustrations. \$3.50 (15/-).

SPECIAL—OUT-OF-PRINT NUMBERS of THE PHOTO-MINIATURE

We can supply clean, second-hand copies of most of the numbers of The Photo-Miniature which are out of print. 50 cents per copy (2/6d). Send for complete list of 191 Titles.

TENNANT AND WARD, 103 PARK AVE., NEW YORK

GOERZ

PHOTOGRAPHIC LENSES of high grade: the old reliable **Dagor**, f:6.8, for hand cameras and commercial work; **wide angle Dagor**, f:9, with plenty of light for focusing (new); **Dogmar**, f:4.5-f:5.5, the ideal speed lens, the single lenses give large size images; **Syntor**, f:6.8 and **Tenastigmat**, f:6.3, moderate speed, inexpensive hand camera anastigmats; **Portrait Hypar**, f:4.5, the portrait lens without wire edge sharpness; **Kino-Hypar**, f:3 and f:3.5, for movie cameras; **Kino-Telegor**, f:6.3, for telephoto movie effects; **Telegor**, f:6.3, a fast working telephoto lens for reflecting cameras, for sports and naturalist photography; **Artar and Gotar Lenses** for the photo-engraver; **Compound Shutters**, etc.

OUR CAMERA LINE comprises **Roll Film Tenax**; **Pocket Tenax** for plates and film packs; **Taro and Manufoc Tenax**, with double extension for plates and film packs; **Ango Focal plane Cameras**; **Stereoscopic Cameras**; **Hahn-Goerz Motion Picture Cameras and Projectors**.

Complete line of accessories, plate-holders, film pack adapters, kits, etc.—carried in stock.

Other products are **Binoculars**, **Telescopes**, **Polariscopes**, **Barometers** and **Scientific Instruments** of varied types.

Information and Printed Matter on Request

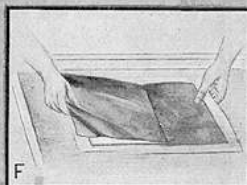
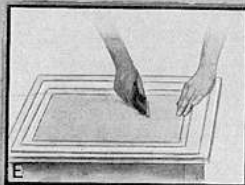
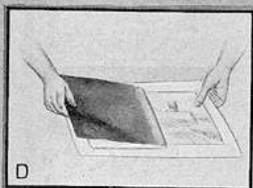
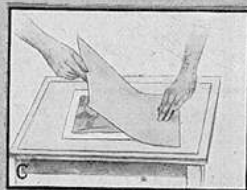
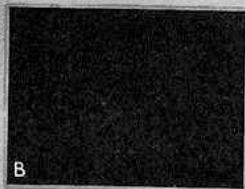
C. P. Goerz American Optical Co.
327 East 34th Street, New York City

CARBRO

A process by which Permanent Carbon Prints can be made direct from Bromide Prints and Enlargements.

The process is simple—the results are permanent and may be made in practically any of the Autotype Company's 30 colors, including Browns, Reds, Blues, Greens, etc.

NO DARK ROOM REQUIRED



CARBRO



"A" is the Bromide print. "B" is the pigment paper, which after immersion in chemical solutions is laid down on the Bromide print ("C") squeegeed and placed between greaseproof paper for 15 minutes. At the expiration of that time, the Pigment paper is stripped off the Bromide print ("D") and squeegeed into contact with a sheet of Support paper ("E"). The adhering papers are placed between dry blotting paper for about 20 minutes and then immersed in warm water of about 95° Fahr. As soon as the gelatine begins to ooze from the edges, the pigment paper is stripped from the Support paper ("F") leaving a dark mass of pigmented gelatine on the Support paper ("G") in which the photograph is just visible. The print is gently splashed with warm water until development is complete ("H").

The Bromide print should be placed in cold water after operation "D," thoroughly washed and afterwards re-developed with the usual bromide developer to be ready for the next Carbro to be made from it.

"THE CARBRO PROCESS," by A. C. Braham, F.R.P.S. Price \$.25.

5 x 7 Trial Outfit, \$3.00;

8 x 10 Trial Outfit, \$4.25.

Send for detailed price list.

GEORGE MURPHY, Inc., American Agents

57 EAST NINTH STREET

NEW YORK CITY

Everything Photographic

AS A MASTER PAINTER "FEELS" HIS FAVORITE BRUSH MOLD CHARACTER AND LIFE TO HIS CANVAS, SO CAN THE MASTER PHOTOGRAPHER "FEEL" CHARACTER AND LIFE COME TO HIS PICTURES—WITH THE AID OF ILEX EQUIPMENT.

—it comes with that confidence of results which Ilex Lenses and shutters are perfected to produce and maintain. Because—the Ilex Scientific Department is composed of highly expert lens computers and craftsmen, thoroughly familiar with the lens and shutter needs. The enviable reputation which Ilex lens and shutters have obtained is due to their scientific and uniform construction, each being a perfect duplicate of the master creation.

Thus in—

FEATURING OUR LATEST PHOTOGRAPHIC ACHIEVEMENTS,

the high standard of the Ilex line is again emphasized by the



ILEXPO Behind-The-Lens SHUTTER and the ILEX Paragon Anastigmat F:4.5

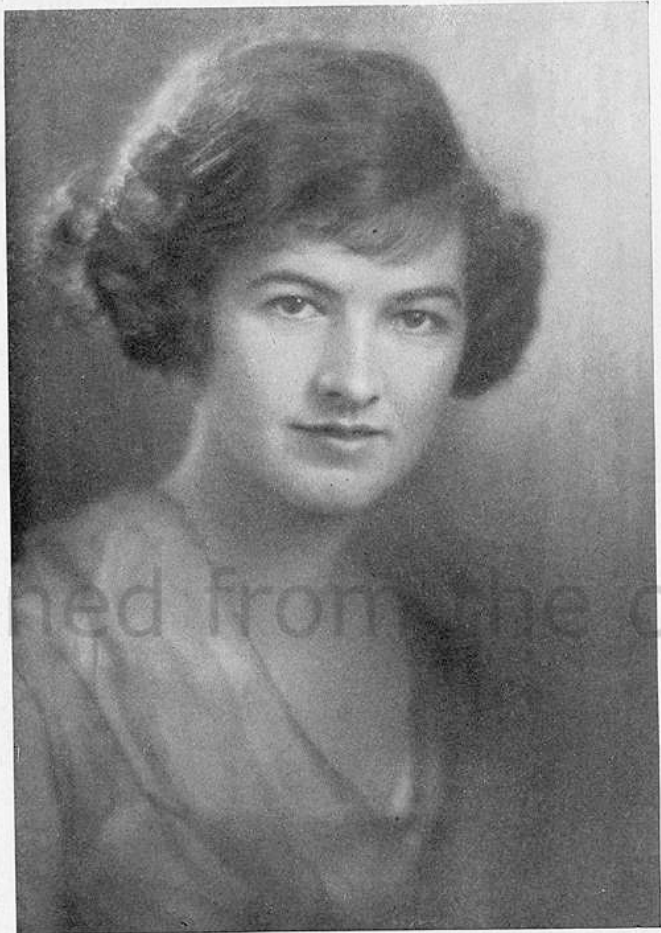
The Ilexpo built into the front board and fitted with auxiliary lens boards permits its use with innumerable lens equipments. Get particulars regarding this latest achievement. The Ilex Paragon you will find even under the most trying lighting conditions with its superfine corrections coupled with speed unexcelled for Home, Studio, Commercial and Speed Photography.

WHEN NEW PHOTOGRAPHIC ACHIEVEMENTS ARE DEVELOPED "ILEX" IS IN THE FOREFRONT

ILEX OPTICAL COMPANY

Pioneers in the successful making and marketing of Shutters with the Revolutionizing Wheel Retarder

ROCHESTER, N. Y.



The KALOSAT

The Lens for the Man Who Cares

This lens is recognized as one of the fastest of the day. It is constructed of a single element of quartz transparent to all the valuable light rays including the ultra-violet which gives full color values with soft diffused effects.

Write for booklet "K." It tells how the Kalosat will improve your photography.

HANOVA LENS LABORATORIES
NEWARK, N. J.

Agfa

Means Good Quality

Agfa Plates

Agfa Color Plates

Agfa Rollfilms

Agfa Filmpacks

Agfa Portraitfilms

Agfa X Rayfilms

Agfa Films for Photogravure and Process Work

Agfa Developers (Rodinal, Metol, etc.)

Agfa Blitzlicht (Flashpowder)

Agfa Flashlight-Lamps, Amateur and Professional Size

Agfa Photo Handbook by Dr. M. Andresen

300 p. text, fully illustrated, with useful information

Ask for Catalog and Price List, and special information booklets on Color Plates, X-Ray Films and Process Work.

Agfa Products, Inc.

114-116 East 13th Street, New York, N. Y.

The Ideal Book on Bromoil

BROMOIL PRINTING and BROMOIL TRANSFER

By DR. EMIL MAYER

President of the Vienna Club of Amateur Photographers
Authorized translation from the seventh German Edition

By FRANK ROY FRAPRIE, S. M., F. R. P. S.
Editor of AMERICAN PHOTOGRAPHY

Bromoil has been rated as one of the most difficult problems to master largely because of the inadequacy of the published information on the process. The earliest writers had not completely mastered the process and did not fully understand the vagaries of the materials. Naturally what they did not completely know, they could not fully impart. Dr. Mayer's book contains the results of exhaustive experiments which have cleared up practically all the difficulties inherent in the Bromoil process. It is a masterly piece of exposition and is especially valuable to the amateur who desires to learn this process, because it describes a single plan of work without variation, and gives such explicit directions and such a thorough description of all possible sources of difficulty that an implicit following of its guidance will inevitably lead to success, after which the now experienced bromoil worker will be able to try out variations and invent his own formulas if he so desires.

The book also contains full and explicit directions for all varieties of bromoil transfer, the most beautiful and advanced process which exists for making a photographic print, not only in Dr. Mayer's own account but in the translation of another book on this process alone, by Eugene Gutsmann, whose book on "The Making of Bromoil Inks" is also included as a second appendix.

The "British Journal of Photography" says: "It is a matter for unqualified pleasure that such an authoritative handbook should have been made available to English-speaking photographers. . . . The process of making a bromoil print is treated, step by step, and at each stage such detailed directions and convincing reasons are given as to leave no room for the doubts and misgivings which many books of instruction leave in the minds of their inexperienced readers. . . . We have nothing but commendation for the volume."

The volume contains 199 pages, size 5½ x 8, bound in red cloth. Price \$2.50.

THE Dictionary of Photography and REFERENCE BOOK for AMATEUR and PROFESSIONAL PHOTOGRAPHERS

by
E. J. WALL, F. C. S., F. R. P. S.
With special articles, additional matter,
and revisions by Thos. Bolns, F. I. C.,
F. C. S.; F. J. Mortimer, F. R. P. S.; T.
Thorne Baker, F. C. S., F. R. P. S.; F.
Martin Duncan, F. R. P. S.; F. C. Lam-
bert, M. A.; F. R. P. S.; A. H. Blake,
M. A.; C. H. Hewitt, F. R. P. S.; A. J.
Newton; W. Edelbert Henry, C. E.
Tenth Edition—Greatly Enlarged
Edited by
F. J. Mortimer, F. R. P. S.
Art Editor of "The Amateur Photographer
and Photography"

This invaluable book of reference contains within a single cover, duly alphabetized by subject, all the facts of photography which have any practical utility at the present day, together with chemical, physical and optical details, tables, formulas, recipes, and practical information of the widest variety needed by the amateur and professional photographer, the photo-engraver, and every seeker of information in the photographic field.

Nearly 800 pages well bound in red cloth, \$5.00 postpaid.

AMERICAN PHOTOGRAPHIC PUBLISHING COMPANY
428 Newbury Street Boston 17, Mass.

Volume XXVI PENROSE'S ANNUAL

The Process Year Book and Review of the
Graphic Arts, 1924

Edited by William Gamble

A Progressive Record of Art and Techni-
que in Modern Methods of Reproduction,
Process Engraving, Printing and Allied In-
dustries. Profusely Illustrated with Fine
Examples of New and Interesting Processes,
Color Plates, etc. A Treasury of Useful In-
formation, Suggestion and Inspiration. In-
dispensable to All Workers in the Graphic
Arts.

A beautiful example of bookmaking,
printed in the highest style of modern typog-
raphy on special paper, and finely bound in
charmingly decorated cloth, with a wealth of
illustrations, in monochrome and color,
printed by a great variety of typographic,
lithographic and intaglio processes, attrac-
tively setting forth the skill of the best en-
graving and printing firms of England.
A limited importation only. Price \$4.00
postpaid.

Vol. XXVI will be ready in January, 1924

Photograms of the Year 1923

EDITED BY F. J. MORTIMER

The International Annual of Pictorial Photography

This volume contains numerous fine reproductions of the

BEST PICTURES OF THE YEAR

from the London Salon, the exhibition of the Royal Photographic Society, the principal American and foreign shows of 1923 and selected examples from American, British, French, Italian, Belgian, Canadian, Australasian, Scandinavian, Japanese, Russian, Spanish, Dutch, Czecho-Slovak, Swiss and Indian workers.

Also interesting reports of

The Progress of Pictorial Photography Here and Abroad

Written by prominent pictorialists of different countries forming

A complete record of the best pictorial photography of the year and a treasury of inspiration to all who follow picture making with the camera.

8½ x 11 inches.

Strong Paper Covers \$2.50 Postfree
Clothbound \$3.50 Postfree

The book will be published in London in December, and will be ready for distribution in the United States early in January. The importation order is already practically covered by advance orders from dealers, and, by past precedent, those who do not assure themselves of a copy by placing an advance order, may find it difficult to secure one.

American Agents:

AMERICAN PHOTOGRAPHIC PUBLISHING CO.
428 Newbury Street Boston 17, Mass.

Photographic Amusements

By Walter E. Woodbury

This interesting book, describing many novel, ingenious, amusing and ludicrous effects obtainable with the camera, has been out of print for several years, though previous to that time it had passed through many editions and was one of the most popular photographic books ever sold. We have just reprinted the book with the original text and a number of new sections. We can recommend it to all who desire to utilize their ingenuity in producing interesting pictures out of the beaten track. The contents are as follows:

Introduction—The Mirror and the Camera—The Photo-anamorphosis—Statuette Portraits—Magic Photographs—Spirit Photography—Photography for Household Decoration—Leaf Prints—To Make a Pen and Ink Sketch from a Photograph—Photographs on Silk—Photographing a Catastrophe—Photographs on Various Fabrics—Silhouettes—How to Make a Photograph Inside a Bottle—Photographing the Invisible—Photographs in Any Color—The Disappearing Photograph—Freak Pictures With a Black Background—How to Copy Drawings—Sympathetic Photographs—Dry Plates That Will Develop With Water—Caricature Photographs—Photographing Seaweeds—Stamp Portraits—Luminous Photographs—Floral Photography—Distorted Images—Photographs Without Light—Electric Photographs—Magic Vignettes—A Simple Method of Enlarging—Moonlight Effects—Photographing Snow and Ice Crystals—Photographing Ink Crystals—Pinhole Photography—Freak Pictures by Successive Exposures—Wide-Angle Studies—Conical Portraits—Making Direct Positives in the Camera—Instantaneous Photography—Artificial Mirages by Photography—Photo-Chromoscope—Composite Photography—Tele-Photo Pictures—Lightning Photographs—Photographing Fireworks—Doubles—Double Exposures—Comical Portraits—The Two-Headed Man—Duplicators and Triplicators—Pictures with Eyes Which Open and Close—Photographic Bookplates—Landscapes and Groups on the Dining-room Table—Night Photography—Photographs on Apples and Eggs.

128 pages, 114 illustrations, size 6½ x 9¼. Bound in red cloth. Price \$1.50.

American Photographic Publishing Co.
428 Newbury St., Boston 17, Mass.

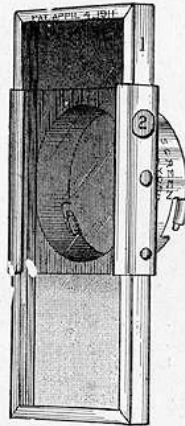
THE ROYAL FOREGROUND GRADED FILTER

(Patented April 14th, 1911)

The Latest and Greatest Improvement in Ray Filters



STYLE A



STYLE B

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

The Royal Foreground Ray Screen is so constructed that the color, which is a strong orange yellow at the top, is gradually diminished until perfect transparency is attained at the bottom. The practical effect of the gradual blending of color is to sift out or absorb the powerful chemical rays from the clouds and sky, which pass through the strongly colored top of the filter, without perceptibly decreasing the weak illumination of the reflected light from the foreground, which comes through the transparent or colorless lower part of the screen in full intensity.

The reason that daylight cloud pictures are rare is that the strength of the illumination from the sky is many, many times that of the partially absorbed and reflected light from objects on the ground.

If a correct exposure is given to the clouds, then the landscape is badly under-exposed; if the correct exposure is given to the landscape, then the clouds are literally burnt up from over-exposure, and no matter how contrasty they may have appeared to the eye, an unscreened photograph shows only a blank white sky.

The Royal Foreground Ray Screen is also very useful for subjects which are more strongly illuminated on one side than on the other, as in photographing by the light of a side window or in a narrow street. By simply turning the dark side of the foreground screen toward the bright side of the object a good, even exposure will result.

STYLE A slips over the front of the lens the same as a lens cap, and may be instantly attached or removed.

No.	Diameter, Inches	Price
0A	7/8	\$2.00
1A	1 5-16	2.25
2A	(for box cameras)	2.00
3A	1 7-16	2.25
4A	1 1/2	2.50
5A	1 3/4	2.75
6A	2	3.00
7A	2 1/4	3.50
8A	2 1/2	4.00
9A	2 3/4	4.50
10A	3	4.75
11A	3 1/4	5.50
12A	3 1/2	6.00
13A	4	7.00
14A	4 1/2	8.00

STYLE B is mounted in a sliding frame so as to bring a filter of any desired depth of color in front of the camera lens.

No.	Diameter, Inches	Price
1B	1 5-16	\$4.00
3B	1 7-16	4.00
4B	1 1/2	4.50
5B	1 3/4	5.50
6B	2	6.00
7B	2 1/4	6.75
8B	2 1/2	8.00
9B	2 3/4	8.75
10B	3	9.50

GEORGE MURPHY, Inc.,
57 East Ninth Street NEW YORK
Everything Photographic

NEW INTRODUCTION



**"Elephant"
Brand
Photo
Papers**

CELLOFIX

(SELF TONING
PAPER)

A new printing out self toning paper on imported stock. Rich tones—wonderful selection of colors and surfaces. Tones in salt and hypo. Permanent results. Made in the following grades: *White Matt Rough, Cream Matt Rough, White Matt, White Glossy, Cream Matt Smooth, Cream Fabric, Matt Art Tinted Orange, Cream, Blue, Green, Assorted (4 colors).*

Sizes	Dozen	1/2 Gro.	Gro.
2 1/4 x 3 1/4	\$.15		\$1.40
2 1/2 x 4 1/4	.20		1.70
3 1/4 x 4 1/4	.25		2.25
4 x 5	.30		3.00
3 1/4 x 5 1/2	.30		3.00
4 x 6	.40		3.50
5 x 7	.55	\$2.80	5.50
8 x 10	1.25	5.90	11.25

Postals	per doz.	.30
"	"	100 2.25
"	"	500 10.00

Elephant Proof Paper
HEAVY WEIGHT
Glossy and Semi-Matte

This is the best proof paper we have ever offered. Made on heavy weight (double weight) imported pure white stock it gives rich attractive proofs. The kind of a proof to bring you in a big order. Send to us for sample sheet, and compare with what you are using.

Prices Net Cash

Cabinet	.....	\$1.22
4x6	.....	1.35
5x7	.....	2.07
8x10	.....	4.77
11x14	.....	9.00

In 5 gross lots, 3% discount from above prices.

In 10 case lots, 5% discount from above prices.

GEORGE MURPHY, Inc.
57 E. NINTH ST., NEW YORK

Everything Photographic

ELEPHANT BRAND BROMIDE PAPER

An enlarging paper with contact quality, producing rich velvety shadows with fine gradation up to the high lights.

A wide range of surfaces to select from. In single and double weights.

Grades—Single Weight
No. 7 Semi-Matt No. 5 Glossy No. 1 Matt Smooth

Grades—Double Weight
No. 9 Semi-Matt
No. 11 Matt Cream Smooth
No. 8 Extra Rough Cream

Sizes	Single Weight		Double Weight	
	1/2	1	1/2	1
	Doz.	Gr.	Doz.	Gr.
6 1/2 x 8 1/2	.38	2.10	3.94	4.9
8 x 10	.57	2.83	5.55	7.2
10 x 12	.87	4.50	8.55	1.09
11 x 14	1.05	5.52	10.50	1.32
14 x 17	1.58	8.25	15.75	1.99
16 x 20	2.10	11.03	21.00	2.83
18 x 22	2.63	13.80	26.25	3.30
20 x 24	3.15	16.50	31.50	3.94
Rolls 10 ft. 20 inches				\$1.58

POST CARDS

A fast enlarging post card, especially adapted for quick finish studios; either for contact or projection printing.

Glossy—Semi-Matt—Matt—Smooth Cream				
Prices				
Doz.	100	500	1000	5000
\$.19	\$1.35	\$6.00	\$11.50	\$55.00

GEORGE MURPHY, Inc.
57 East 9th St., New York City
Everything Photographic

SIDI PAPER

A Developing-out Paper, that will meet all the requirements of the amateur finisher, commercial and professional photographer. It possesses fine gradation, extreme latitude, brilliancy, uniformity in speed, and has unsurpassed lasting qualities.

Grades—Single Weight
No. 1 Semi-Matt No. 10 Glossy

Grades—Double Weight
No. 4 Matt Smooth No. 7 Cream Extra Rough
No. 11 Glossy No. 13 Cream Linen, and
No. 15 White Linen

Sizes	Single Weight		Double Weight	
	1/2 Gro.	1 Gro.	1/2 Gro.	1 Gro.
	Doz.	Gr.	Doz.	Gr.
2 1/4 x 3 1/4	\$.10	\$.52	\$.15	\$.64
2 1/2 x 4 1/4	.12	.64	.16	.80
3 1/4 x 3 1/2	.12	.76	.16	.96
3 1/4 x 4 1/4	.12	.84	.16	1.04
4 x 5	.12	1.08	.16	1.36
3 1/4 x 5 1/2	.12	1.00	.16	1.24
3 3/8 x 5 1/2	.12	1.08	.16	1.36
4 x 6	.12	1.20	.16	1.52
5 x 7	.20	1.84	.24	2.32
5 x 8	.24	2.08	.28	2.66
6 1/2 x 8 1/2	.32	2.60	.40	3.70
8 x 10	.44	3.40	.56	4.80
10 x 12	.64	5.52	.80	8.16
11 x 14	.80	8.00	1.00	12.00
Rolls 10 ft. 20 inches		.80		1.00

Post Cards—Grades
No. 2 Semi-Matt No. 11 Glossy
No. 15 White Linen

Prices				
Doz.	100	500	1000	5000
\$.16	\$1.00	\$4.60	\$9.00	\$40.00

GEORGE MURPHY, Inc.
57 East 9th St., New York City



Established { London, 1743
New York, 1916

The Seal on all bottles of the
pure and genuine Standard
Quality, "SCALES BRAND"

Developing Chemicals

AMIDOL _____
METOL _____
PYRO _____
HYDROKINONE _____

J JOHNSONS
JOHNSONS
JOHNSONS
JOHNSONS

Made in America

"ACTIVOL" THE SINGLE SOLUTION
DEVELOPER
FOR ALL PURPOSES

Write us for our "T. and T. T."

(The Activol Time and Temperature Tables.)

THE "SCALES BRAND" SODAS

SULPHITE } Pure Photographic Anhydrous Powder
CARBONATE } in 1-lb., 5-lb. and 25-lb. Cans

AT YOUR DEALER

JOHNSON & SONS

Manufacturing Chemists, Ltd., London
and

173 MERCER STREET

NEW YORK

List on Application



THE SWAN.

Dr. D. J. Ruzicka.

The American Annual of Photography 1924

VOLUME XXXVIII

Edited by Percy Y. Howe



NEW YORK
THE AMERICAN ANNUAL OF PHOTOGRAPHY, INC.
MCMXXIII

(TRADE MARK REGISTERED)

Copyright, 1923 by
THE AMERICAN ANNUAL OF PHOTOGRAPHY, INC.
NEW YORK

FEDERAL PRINTING Co., NEW YORK

PREFACE

PHOTOGRAPHY has at last reached a position where we can truthfully say it has a place in all our lives, whether we are actively engaged in it or not.

The editorial work on the Annual is properly confined to the gathering of interesting and instructive material pertaining to photography, and presenting it in a readable and attractive manner.

This volume is composed entirely of the work of amateur and professional photographers here and abroad. The contributed papers cover almost every branch of photographic activity, and the illustrations form a representative collection of the best work of the year.

I wish to express my sincere thanks to all who in any way assisted in the making of this book, especially those whose contributions I have been compelled to omit through lack of space.

Manuscripts or prints to be submitted for the 1925 volume should be sent to me at 422 Park Hill Avenue, Yonkers, N. Y., so as to reach me any time prior to August 1st, 1924.

PERCY Y. HOWE, Editor.

TABLE OF CONTENTS

Contributed Articles

	Page
Hand Work in Photography. By Paul L. Anderson.....	9
Modification of the Printing Developer. By Lloyd I. Snodgrass, B.S.....	22
Three-Colour Carbro. By Frederic G. Tutton, F.R.P.S.....	28
A Method of Working the Gum-Bichromate Process. By J. Harold Leighton..	40
Those Elusive Bromoils. By Fred T. Usher..... <i>Illustrated</i>	44
Expression in Portraiture. By T. W. Kilmer..... <i>Illustrated</i>	50
The Importance of the Beginner. By A. H. Beardsley.....	54
Brown and Brown Black by Direct Development. By Anson Herrick.....	64
Getting Everything in Focus. By Herbert Wheaton Congdon, M.A.....	68
Surveying With a Kodak. By C. H. Claudy.....	78
When a Little Is Better Than More. By Henry Hall..... <i>Illustrated</i>	84
Taking Figures Unawares. By A. Lockett..... <i>Illustrated</i>	88
Photography of the Nude. By Angus Basil..... <i>Illustrated</i>	92
Studying the Child for Child Studies. By B. C. Demien.....	94
The Telephoto Lens. By Henry F. Raess.....	102
Two-Color Carbro. By Sophie Louisa Lauffer..... <i>Illustrated</i>	106
Combination Prints. By Wm. H. Zerbe..... <i>Illustrated</i>	110
Photographic Review of 1923.....	118
Hints—Perhaps Helps. By Col. James A. Andrews.....	148
Calculating Exposure for Daylight Enlarging. By C. R. Lowe.....	152
Simplified Carbro. By William A. Aleock, LL.B.....	156
Soft Pictures From Sharp Negatives. By William Noyes..... <i>Illustrated</i>	158
The Light House. By William C. Settgas..... <i>Illustrated</i>	162
Some Ramdon Thoughts on Photography. By Mark W. Stevens.....	168
Artistic Photography. By Edna Osborne Whitcomb.....	172
The Value of a Small Camera While Travelling. By J. A. Ernest Zimmerman, B.S. <i>Illustrated</i>	180
A Chemical Sensitizer for Paper, Sateen and Silk. By Alfred J. Jarman, <i>Illustrated</i>	184
Photomicrography as Used in Textile Schools. By A. H. Grimshaw. <i>Illus- trated</i>	190
Percentage. By George D. Jopson.....	196
A Criticism of the Critic. By G. H. S. Harding.....	200
Insects in Comic Photography. By Dr. Lehman Wendell..... <i>Illustrated</i>	204
Moonlight Photography. By A. W. Dreyer..... <i>Illustrated</i>	216
Bromoil Transfers. By Charles H. Partington..... <i>Illustrated</i>	220
Remarks on the Raydex Process. By H. J. Campbell.....	232
Point of View and the Lens. By H. A. Hussey.....	236
What Do You Do With the Prints? By Miles J. Breuer, M.A., M.D. F.A.C.P. <i>Illustrated</i>	242
Travel and the Camera. By Herbert B. Turner.....	254
Developing Vest Pocket Size Plates. By H. V. Schieren.....	258
Some American Shrines. By William H. Broadwell..... <i>Illustrated</i>	262
Notes on Mountain Photography. By Dr. William E. Ziegenfuss. <i>Illustrated</i>	268
American Annual Formulary.....	274
United States Weights and Measures.....	283
English Weights and Measures.....	284
Metric System of Weights and Measures.....	285
The Conversion of French Into English Measure.....	286
The Conversion of French Into English Weight.....	286
The Elements: Their Names, Symbols and Atomic Weights.....	287
Table of Comparative Plate Speed Numbers.....	287
Thermo Development.....	288
Table for Calculating Distances in Enlarging or Reducing.....	289
Tables of Distances for Use in Focussing.....	290
Length of Studio.....	290
Uniform System for Stops.....	291
American Photographic Societies.....	292

Index to Subjects

	PAGE		PAGE
Acid Fixing Bath.....	276	Kallitype	279
Activol	274	Lamps	163
Adhesive For Labels.....	281	Lantern Slides	276
Aduroil	64, 274	Length Of Studio.....	290
Albums Of Prints.....	242	Lenses	102, 120, 169, 236
American Shrines	262	Lenses, Cleaning	282
Amidol Formula	148, 274	Linear Perspective	236
Artistic Photography	172, 200		
		Metol	274, 275
Beginner, The	54	Metric System	168, 285, 286
Blackening Mixture	281	Microscopic Photography	190
Bleaching Solution	186, 222, 281	Monomet Formula	274
Blue Print Paper.....	278	Moonlight Photography	216
Books, New	118	Mountain Photography	268
Bromide Paper	278	Mounting	282
Bromoil	44, 150, 220		
Brown And Black Development..	64	Nude, The	92
		Ortol	275
Calendar	8		
Cameras	180, 254	Para-Amidolophenol Formula	275
Camera Clubs	292	Paste	282
Carbon Process	279	Percentage	196
Carbro, Three-color	28	Phenosafranin	146
Carbro, Two-color	106	Photomicrography	190
Carbro Process	28, 106, 136, 156	Pictorial Photography	9, 172, 200
Chemistry, Photo	126	Plate Speeds	287
Child Studies	94	Plates, Development	258
Cleaning Bottles	281	Platinum Paper	280
Cleaning Stains	281	Portraiture	9, 50, 94
Combination Prints	110	Poison And Antidotes.....	282
Comic Photography	204	Polished Surfaces	282
Comparative Plate Speed Numbers.	287	Printing Apparatus	162
Comparison Of F Values.....	282	Printing-out Papers	280
Conversion Of Metric System.....	286	Printing Processes	136, 278
		Prints	242
Dark-room Lamp	163	Pyro Formula	274, 275
Desensitizers	132		
Developer For Prints	22, 274	Raydex Process	232
Developer For Lantern Slides	276	Reduction	277, 289
Developers	22, 64, 134, 148, 274	Review Of The Year.....	118
Development	134, 148, 258	Rodinal Formula	274
Diamidophenol	274		
		Salted Paper	280
Elements, The	287	Secret Writing	186
Emulsions	126	Sensitizers	132, 184
Enlish Weights	284	Sensitometry	122
Enlarging	152, 162, 289	Seria Toning	278
Exposure	152	Short Stop	277
Expression In Portraiture.....	50	Societies, List Of.....	292
		Soft Pictures	158
Farmer's Reducer	278	Stains	282
Ferrous Oxalate Formula.....	275	Stereoscopic Photography	254
Film To Remove.....	281	Studio, Length of.....	290
Firelight Effects	281	Surveying	78
Fixing Baths	276		
Focussing	68	Table of Distances.....	290
Focussing Table Of Distances.....	290	Taking Pictures.....	88
		Tank Developing.....	169, 274
Gelatine	124	Tartrazine	144
Gold Toning	280	Telephoto Lens.....	102
Ground Glass Substitute.....	282	Test For Hypo.....	283
Gum Bichromate	40, 279	Thermo Development.....	169, 288
		Toning Processes.....	138, 188
Hand Work	9		
Hardeners	276, 277	U. S. Diaphragms.....	291
Hydrochinon Formula	275	U. S. Weights.....	283
Hypo	150		
Hypo Test	282	Weights And Measures.....	283, 284, 285, 286
Intensification	277		

Index to Authors

	PAGE		PAGE
Alcock, William A., LL.B.	156	Kilmer, T. W.	50
Anderson, Paul L.	9	Lauffer, Sophie Louisa	106
Andrews, Col. James A.	148	Leighton, J. Harold	40
Basil, Angus.	92	Lockett, A.	88
Beardsley, A. H.	54	Lowe, C. R.	152
Breuer, Miles J., M.A., M.D., F.A.C.P.	242	Neblette, C. B.	118
Broadwell, William H.	262	Noyes, William	158
Campbell, H. J.	232	Partington, Charles H.	220
Claudy, C. H.	78	Raess, Henry F.	102
Congdon, Herbert Wheaton, M.A.	68	Schieren, H. V.	258
Demien, B. C.	94	Settgas, William C.	162
Dreyer, A. W.	216	Snodgrass, Lloyd I., B.S.	22
Grimshaw, A. H.	190	Turner, Herbert B.	254
Hall, Henry	84	Tutton, Frederic G., F.R.P.S.	28
Harding, G. H. S.	200	Usher, Fred T.	44
Herrick, Anson	64	Wendell, Dr. Lehman	204
Hussey, H. A.	236	Whitcomb, Edna Osborne	172
Jarman, Alfred J.	184	Zerbe, William H.	110
Jopson, George D.	196	Ziegenfuss, Dr. William E.	268
		Zimmerman, J. A. Ernest, B.S.	180

Index to Illustrators

	PAGE		PAGE
Adnams, J. D.	135	Grimshaw, A. H.	190, 192, 194
Akasu, George B. (Insert)	192	Hall, Henry	85
Alcock, Wm. A.	55, 157	Hanna, Forman	167
Allen, John	203	Hanson, Raymond E.	261
Allison, A. C. G.	143	Harding, G. H. S.	201
Alexander, Kenneth	253	Harding, G. H. S. (Insert)	72, 235
Anderson, P. Douglas	149	Heiser, Roy H.	39
Andrews, Col. James A.	239	Henry, E. P.	197
Aoyama, H. S.	175	Herrick, Anson	67
Armbrust, F. Milton	179	Hervey, Antoinette B.	267
Astell, Louis	79	Hussey, H. A.	237
Bailey, Hillary G.	224	Ide, Chester	221
Baker, Lawrence (Insert)	93	Jeltsch, H. E.	61
Basil, Angus	123	Jarman, Alfred J.	187
Beals, Jessie Tarbox	101	Johnson, Belle	273
Berkey, Irving	198	Jones, Myers R.	223
Blickensderfer, Clark	63	Kato, Taizo	271
Borrenbergen, Em	146	Keighley, Alex., F.R.P.S.	241
Bower, E. Mildred	100, 83	Kessler, George Maillard	24, 255
Bray, Ernest A.	83	(Insert)	24, 255
Breuer, Dr. Miles J.	242, 244, 248, 250, 265	Kilmer, T. W.	51, 53
Broadwell, Wm. H.	263, 265	Koerberle, Chas. F.	117
Brooks, Frank W.	116	Koike, Dr. K.	26
Brown, E. J.	131	Kumazawa, Y. Malony	64, 120
Bruning, Walter P.	247	(Inserts)	64, 120
Bucher, Louis F.	87	Laity, Warren R.	77
Campbell, H. J. (Insert)	104	Lauffer, Sophie L.	69, 106, 107, 109
Carlyle, Thomas	82	Lockett, A.	89, 91
Carter, F. William	59	Lomax, J. Arthur (Insert)	40
Cohen, Edgar A.	183	Lovegrove, Irving S.	231
Collins, Edwin B.	103	Macnaughton, Wm. Elbert	32
Conkling, O. C.	27	(Insert)	32
Denes, Ronai	71	McAskill, W. R.	43
Dickeson's Studio	102 (Insert) 288	McFarlin, A.	111
Douitt, Charles W.	165, 214	McLean, Amelia H.	139
Dreyer, A. W.	217, 219	Misuraca, William N.	181
Duroc, O. E. (Insert)	168	Montgomery, Robert B. (Insert)	232
Eickemeyer, Rudolf	29, 209	Murray, Nickolas	19
Eitel, Theodore	76, 177	(Insert Facing Page 9)	19
Ellis, Wm. Shewell	81	Neuman, Harry A. (Insert)	256
Fleckenstein, Louis	49	Niklitschek, Ing. A.	141
Foss, J. E.	166	Noyes, William	158, 159
Frederick, H. K.	191	Ostrom, Jr., Edward	188
French, George W.	215	Paine, J. Howard	21
Gill & Son	50	Pardoe, Dr. J. B.	119
Gilpin, Laura	125	Partington, Chas. H.	226, 227, 228, 229
Goetz, Louis F. (Insert)	96	Petridis, Peter G.	20, 75
		Porterfield, W. H. (Insert)	160

Index to Illustrators

	PAGE		PAGE	
Rabinovitch	15, 62 (Insert)	184	Taylor, R. B. M. (Insert)	128
Rea, W. Lawrence	213	Taylor, Wilbur E.	99	
Reiter, O. C. (Insert)	56	Tutton, Frederic G., F.R.P.S.	31	
Richter, Dr. George	245	Usher, Fred T.	45, 47	
Roberts, Hobart V.	205	Vail, Floyd, F.R.P.S. (Insert)	88	
Ruzicka, Dr. D. J.	207	Verburgt, Wm. C.	95	
(Insert Facing Page 1)	207	Weber, E. J.	202, 218	
Sand, S. A.	239	Weinberg, A. S.	171	
Scaife, R. E.	243	Webb, Sidney V.	145	
Sellig, S. H.	211	Wendell, Dr. Lehman	204, 210, 212	
Settgas, Wm. C.	162, 163, 164	Whitehead, J. M.	23	
Seymour, George Steele	173	Williams, Jr., Albert	260	
Singler, J. A.	147	Willard, S. H.	251	
Skoumal, E. J.	199	Willson, Alfred S.	151	
Snyder, Charles L.	127	Wood, Lionel, F.R.P.S. (Insert)	136	
Squier, P. F.	35	Zerbe, Wm. H.	113, 115	
Steele, Louis J.	133 (Insert)	Ziegenfuss, Dr. Wm. E.	268, 269, 272	
Sweet, Lou.	11, 170 (Insert)	248	Zimmerman, J. A. Ernest	182
Tardy, G.	195	248		

Index to Advertisers

	PAGE
Agfa Products Inc.	xi
American Hard Rubber Co.	xxxii
American Lead Pencil Co.	xxxviii
American Photographic Publishing Co.	xii, xliii
Anco Company	i
Archinal, Adam	xxx
Bausch & Lomb Optical Co.	iii
Bennett, Richard M.	xxvii, xxxiii
Betts, Farron S.	xxxi
Brieff Mfg. Co.	xxiv
Callier Enlarger, The	xxxix
Camera Craft Publishing Co.	xxxiii
Central Camera Co.	xxxv
Cohen's Exchange, Abe	xxxix
Eagle Pencil Company	xxxiii
Eastman Kodak Company	Fourth Cover; xvii-xxi
Engel Mfg. Co.	xxii
Fitzsimons Corporation, R. J.	xxvi
Gilbert Supply Co.	xxii
Goertz, C. P., American Optical Co.	vii
Hammer Dry Plate Co.	xxxv
Hanovia Lens Laboratories	x
Harris & Company, Ralph	xxx
Harrold, Elmer	xxxiii
Hewes Laboratories	xxxiv
Higgins & Co., Chas. M.	xxv
Holliston Mills, Inc.	xxxviii
Housh Company	xxxii
Ilex Optical Co.	ix
Japan Paper Co.	xxxviii
Johnson & Sons	xvi
Johnston, J. W.	xxxvii
Murphy, Inc., George	Second and Third Covers, viii, xiv, xv, xxiv, xxxii, xxxvii, xxxix, xl
New York Institute of Photography	xxii
Photo-Era Magazine	xxv
Presto Mfg. Co.	xxxvi
Reohrig-Bielenberg Co., Inc.	xxxvi
Rough & Caldwell Co.	iv
Smith & Sons Company, James H.	xxxvii
Tennant & Ward	vi
Tuscan Productions	xxxvi
Victor Animatograph Co.	ii
Wallace Chemical Co.	xxxiv
Warren Products Co.	xxix
White Tar Co., The	xxv
Willoughby, Charles G.	xxxiii
Wold Air Brush Mfg. Co., The	xxv
Wohl & Co., Inc., M. J.	xxxiii
Wollensak Optical Co.	v

PITTSBURGH SALON OF PHOTOGRAPHIC ART—Pittsburgh, Pa. Under auspices of Photographic Section of the Academy of Science and Art. Membership consists of the leading pictorialists in the United States. *President*, O. C. Reiter, 2424 Penn Avenue, Pittsburgh, Pa.; *Secretary*, P. F. Squier, 237 Avenue B, Westinghouse Plan, East Pittsburgh, Pa. Salon held Carnegie Institute, March. Last day of entry, February 7th.

POLYTECHNIC CAMERA CLUB—Polytechnic Institute of Brooklyn, 99 Livingston Street, Brooklyn, N. Y. Organized May 15, 1921. Meets second and fourth Tuesdays, 12.30 p. m. *President*, Joseph R. Fisher, 1555 74th Street; *Secretary*, Edward Breiteirser, 2703 Bainbridge Avenue, Bronx, N. Y.

PORTLAND CAMERA CLUB PHOTOGRAPHIC SECTION OF THE PORTLAND SOCIETY OF ART—Portland, Me. Headquarters, L. D. M. Sweat Memorial, Spring corner High Street. Established 1899. Membership, 105. Date of meetings every Monday evening. *President*, C. M. Jaquith, 515 Congress Street; *Vice-President*, J. Ludger Rainville, 268 Danforth Street; *Secretary and Treasurer*, E. Roy Monroe, 36 Exchange Street; *Exhibition Committee*, H. A. Peabody, 94 Pine Street; Alfred Brinkler, 104 Park Street; J. Ludger Rainville, 268 Danforth Street. Member Associated Camera Clubs of America.

POSTAL PHOTOGRAPHIC CLUB—Headquarters, Washington, D. C. Established December, 1888. Membership, 40. Date of meetings, no regular meeting. *President*, Charles E. Fairman; *Secretary*, Ernest L. Crandall, 1331 Newton Street, N. E., Brookland, Washington D. C. Albums circulate among members monthly, except August and September.

READING CAMERA CLUB—Reading, Pa. Headquarters, 610 Court Street. Established 1913. Meetings first and third Thursdays of each month. Quarterly exhibits for members only. Annual exhibit early in March. *President*, Harrison N. Mucher; *Secretary*, L. Roy Frey, 922 Hamilton Place, Wyomissing, Pa. Member Associated Camera Clubs of America.

SAN DIEGO Y. M. C. A. CAMERA CLUB—San Diego, Cal. Organized January, 1920. Headquarters, Y. M. C. A., San Diego, Cal. *President*, Homer C. Miller; *Vice-President*, I. N. Lawson, Jr.; *Treasurer*, Roland E. Schneider; *Secretary*, R. E. Vandruff. Annual exhibition in October. Member Associated Camera Clubs of America. Annual election of officers January.

SOUTHERN CALIFORNIA CAMERA CLUB (of the Southwest Museum, Inc.), 104-105 Stimson Building, 129 West 3rd Street, Los Angeles, Cal. Expect to move into new home at Southwest Museum early in 1924. Membership 100. *President*, Claude J. Williams; *Vice-President* (new one to be elected shortly), *Secretary*, R. L. van Oosting; *Treasurer*, Miss Maud Robertson. Meetings open to the public every Thursday night. Member Associated Camera Clubs of America. Second annual exhibition of Pictorial Photography from Rocky Mountain and Pacific Coast States to be held at Southwest Museum, February, 1924. Expect to make it an annual National exhibition. Monthly bulletin, the "Accelerator" will be sent free upon request. Will be pleased to receive notices of salons, exhibitions, contests, etc.

ST. LOUIS CAMERA CLUB—St. Louis, Mo. Organized February 12, 1914. Devoted to the interest and advancement of the art of photography. Meetings every first and third Thursdays at 8 p. m., Barr Branch Library, Jefferson and Lafayette Avenues. *President*, O. C. Kuehn; *Vice-President*, R. L. Jungling; *Secretary*, O. J. White, 1729 California Avenue, St. Louis, Mo. Address all communications to the secretary. Member Associated Camera Clubs of America.

SWAIN CAMERA CLUB—New Bedford, Mass. *Secretary and Treasurer*, Herbert J. Harper, 95 Walden Street, New Bedford, Mass.; *Lantern-slide and Print Director*, J. Arnold Wright, 27 Jenny-Lind Street, New Bedford, Mass. Member Associated Camera Clubs of America.

TELEPHONE CAMERA CLUB—Headquarters, 964 Sherman Avenue, New York. *Secretary*, W. J. Marshall.

UTAH CAMERA CLUB—Salt Lake City, Utah. *President*, Geo. I. Reeves; *Secretary*, Thomas O. Sheckell, 1411 Walker Bank Building.

WASHINGTON Y. M. C. A. CAMERA CLUB—Washington, D. C. Headquarters, Central Y. M. C. A. Building. Membership, 32. *President*, Myron F. Myers; *Secretary*, Miss Elizabeth N. Brownley, 908 Que Street, N. W.

WESLEY CAMERA CLUB—Headquarters, Bell Theatre Building. Organized April 6, 1912. Meeting the first Monday of each month. *President*, Lester Lease; *Vice-President*, H. H. Flom; *Secretary and Treasurer*, W. A. Drowlow, Wesley, Iowa.

WILKES-BARRE CAMERA CLUB—Wilkes-Barre, Pa. Headquarters, 131 South Main Street. Organized 1901. Meet every Tuesday evening. *President*, James H. Pridaux; *Secretary*, Wm. Hardie Davis, 178 North Franklin Street; *Treasurer*, Albert Williams, Jr. Member Associated Camera Clubs of America.

YONKERS CAMERA CLUB—Yonkers, N. Y. Headquarters, 782 Warburton Avenue. *President*, W. R. Cronk; *Vice-President*, Wm. Beck; *Secretary*, Elijah F. Munn, 11 Van Cortland Park Avenue, Yonkers, N. Y.; *Librarian*, C. B. Carling; *Trustees*, F. W. Wocher, Wm. D. Mitchell, Geo. H. Stengel.



*Illustrating No. 2C
Autographic Kodak
Special with Kodak
Anastigmat lens f.6.3
and Kodamatic shut-
ter.*

There are Three New Model Special Kodaks

- No. 1 Autographic Kodak *Special*, pictures $2\frac{1}{4} \times 3\frac{1}{4}$, \$50
- No. 1A Autographic Kodak *Special*, pictures $2\frac{1}{2} \times 4\frac{1}{4}$, \$60
- No. 2C Autographic Kodak *Special*, pictures $2\frac{1}{8} \times 4\frac{3}{8}$, \$65

When the largest photographic organization in the world makes a camera and calls it a "Special", the name is significant. It means that in construction, appearance, equipment, a Special Kodak is just as good a hand camera as it is possible to make.

Special Kodaks are fitted with the fast Kodak Anastigmat lens *f.6.3*, the accurate seven-speed Kodamatic Shutter, and they make better pictures, of course.

Eastman Kodak Co.
Rochester, N. Y. *The Kodak City*



Available for your plate holding camera, two speeds of

Kodak Cut Film

Decidedly lighter and easier to handle than plates, Kodak Cut Film has all their advantages with none of their drawbacks. It has wide latitude to compensate for errors in exposure, fine grain for enlarging, and is strictly non-halation.

Regular Kodak Cut Film has average plate-emulsion speed, but to meet the difficult photographic situation—pictures in the late afternoon and snapshots in the shade, for example—use Kodak Cut Film *Super Speed*. Emphatically faster than plates, it often means results where pictures have hitherto been considered impossible.

Through the agency of Kodak Cut Film Sheaths, Kodak Cut Film, either regular or *Super Speed*, can be used in any plate holding camera including both regular and *Special* models of the Nos. 3 and 3A Kodaks when equipped with Combination Backs.

Prices

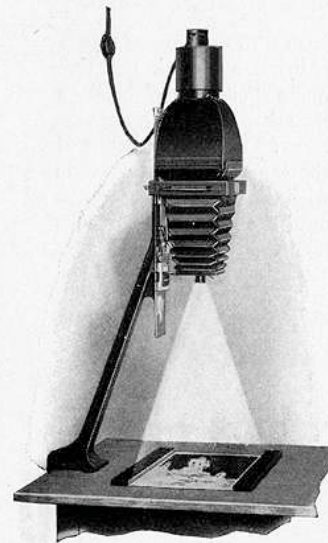
	2¼ × 3¼	3¼ × 4¼	3¼ × 5½	4 × 5	5 × 7
Kodak Cut Film, doz.	\$0.46	\$0.67	\$0.93	\$0.93	\$1.50
Kodak Cut Film, <i>Super Speed</i> , doz.	.52	.77	1.03	1.03	1.65
Kodak Cut Film Sheath, each	.10	.10	.15	.15	
Eastman Film Sheath, No. 3, each					.20

Prices of film include Excise Tax

EASTMAN KODAK COMPANY

ROCHESTER, N. Y., *The Kodak City*

At your dealer's



Kodak Auto-Focus Enlarger

Enlarges picture from 1½ to 3½ times the negative size. Accommodates negatives up to 4 × 6 inches.

Anyone can make excellent enlargements with this apparatus, quickly, easily and without previous experience. It focuses automatically.

Price, complete with Kodak Anastigmat Lens, negative holder, paper holder, set of six metal masks, and electric cord and plug, but without Mazda printing lamp. . . . \$35.00

(75 to 200 Watt lamps may be used)

Diffusing disc for Soft Focus Effects . . . \$ 1.00

Free on Request

"Large Pictures from Small Cameras"

A Book for the Amateur on Bromide Enlarging

EASTMAN KODAK COMPANY

ROCHESTER, N. Y., *The Kodak City*

At your dealer's



With Portrait Attachment

From a Kodak negative made "close up" with a Kodak Portrait Attachment. The picture below of the same subject was made with the same camera, without the Portrait Attachment.

Kodak Close-ups

Slip a Kodak Portrait Attachment over the regular lens and your Kodak is brought into sharp focus at close range.

You are then ready for informal portraits, for close-ups of flowers and of other objects too small to dominate the picture when photographed in the ordinary way.



Without Portrait Attachment

Kodak Portrait Attachment, 75 cents

EASTMAN KODAK COMPANY

ROCHESTER, N. Y., *The Kodak City*

At your dealer's

The thousands of film users, experienced workers, all of whom had used glass plates, deliberately gave them up for the superior quality of the film negative

EASTMAN PORTRAIT FILM

*Par Speed—Super Speed
Uniform Quality*

EASTMAN KODAK COMPANY

ROCHESTER, N. Y.

All Dealers'

Housh Albums

the standard for style and
excellence for nearly 25 years

A catalog illustrating a large variety will be mailed upon
request.

THE HOUSH COMPANY, Makers
7-17 E. CONCORD ST., BOSTON, MASS., U. S. A.

Art Corner Your Pictures—Album in an
where you can keep them safe and
enjoy them always.

5 Styles **Engel** 5 Colors
"Art Corners"

are on sale at Photo Supply and Album
counters everywhere. They are the
only Quick, Easy, Artistic, No Paste, No
Fold way to mount Kodak Prints, Greeting
and Souvenir Cards, Clippings, etc., on any
thing, anywhere. A dime brings 100 and
samples to try. Write

ENGEL MFG. CO.
Dept. A.A., 4711 N. Clark Street, Chicago




HOW TO BECOME A PROFESSIONAL PHOTOGRAPHER

A GOOD PAYING VOCATION

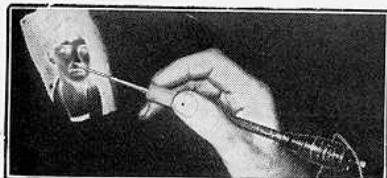
An interesting booklet (free) on choosing a voca-
tion, and the opportunities Photography offers you.
Motion Picture, Commercial, Portraiture, News-Photo

Three to six months' course. Practical instruction. Modern equipment.
Day or evening classes. Easy terms. Call or write for Catalog No. 63.

The School of Recognized Superiority

NEW YORK INSTITUTE OF PHOTOGRAPHY

NEW YORK BROOKLYN CHICAGO
141 West 36th Street 505 State Street 630 So. Wabash Ave.



Gilbert Electric Retoucher

"The Little Speedster"
For Negatives and Prints. Speeds
up your retouching. Does expert
work. Saves time. Saves money.
Costs little to run. Will soon pay
for itself. THIS DEVICE gives
the "touch" by automatic double
vibration produced by an oscillat-
ing vibrator. Patented U. S. and
Canada. *Geo. G. Holloway* says:

"One of the best inventions Photography has had the good fortune to meet with;
most useful." New model much improved, quiet and efficient.

GILBERT SUPPLY COMPANY, Independence, Iowa

Everything Photographic—

Special Equipment—Enlargers
Imported Cameras and Lenses—Printers

for the

AMATEUR and PROFESSIONAL

Write for Latest Bulletin. Call When in New York

WILLOUGHBY'S

110 West 32d St., N. Y.

118 West 44th St., N. Y.

The HARROLD EXPOSURE SCALE

The only meter that will calculate your ray-filter
into the exposure time, when desired. But it also
has many other points of superiority. Thousands
already in use and owners delighted with results.
Made of celluloid and sold by all leading dealers.
Price \$1. I would like to send you free circular,
and help you solve all your exposure problems.
Send me your address now, before you forget.

ELMER HARROLD

Leetonia, Ohio



OF INTEREST TO

Amateur
Commercial

Pictorial
Portrait

Photographers

\$1.50 a year sample on request
Canadian \$1.75 Foreign \$2.00

Camera Craft Publishing Company

Claus Spreckels Building

San Francisco, California

EAGLE "MIKADO" Pencil No. 174



For Sale at your Dealer

Made in five grades

ASK FOR THE YELLOW PENCIL WITH THE RED BAND
EAGLE MIKADO

EAGLE PENCIL COMPANY, NEW YORK

The Light You Will
Eventually Use!

The Sun Ray Floodlite

Equal in strength to an
arc lamp

Uses 1000 watt globe actual
5000 watt illumination.

Made especially for and at the
request of Nicholas Muray, for
exclusive use in his new studio.

A Product of

Brieloff Mfg. Co.

119 Lafayette St. New York

WYNNE'S INFALLIBLE HUNTER METER

The Wynne's Infallible Hunter Meter has been specially designed to attain the maximum of simplicity, convenience and efficiency, with a minimum of diameter and thickness of case—the case being only one-quarter of an inch in thickness. It is beautifully made in the best Solid Nickel and opens automatically by pressure of the small knob on the pendant.



When ordering, please specify which
style of scale is desired.

Hunter Meter \$3.75
Autochrome Scale and
Instruction Book... .50

GEORGE MURPHY, Inc.
57 E. 9th St. New York City

24 Hour Service

DEVELOPING - PRINTING ENLARGING

Our large up-to-date finishing plant enables us to turn
out first quality of work in 24 hours at regular prices.

We specialize in enlargements. Handsomely mounted. Attractive
line of frames, 50 cents up.

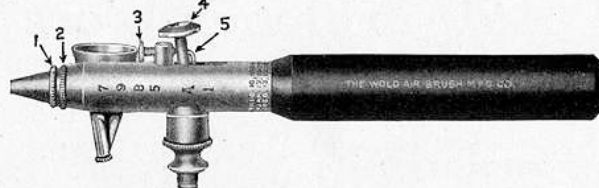
Mail us your films—Give us a trial—Compare
our prices with others.

Send for price list.

GEORGE MURPHY, Inc., 57 E. 9th St., New York

Everything Photographic

"...and a WOLD AIR BRUSH OUTFIT



to make the STUDIO complete."

Ask your photo dealer or write for catalog "M."

THE WOLD AIR BRUSH MFG. CO.
2173 N. California Ave., Chicago, Ill.

Duratol Developer Assur Colors

**Potassium Bromide
Sodium Hyposulphite
Potassium, Red Prussiate**

THE WHITE TAR COMPANY

2-4-6 Cliff Street New York City, N. Y.
Phone: Beekman 1780

PHOTO-ERA MAGAZINE

The American Journal of Photography

An interesting, practical, illustrated magazine for the amateur photographer. Its articles are different, and are a welcome variation from the usual dry, technical reading. Its two monthly prize-contests serve to stimulate a high artistic standard in photography. Its typographical excellence and correct literary standards place it in the foremost rank of the photographic magazines. Send for sample copy.

Subscription price, \$2.50 per year; Canadian, \$2.85.

Foreign, \$3.25; Single Copy, 25 cents.

PHOTO-ERA MAGAZINE, Wolfeboro, New Hampshire, U. S. A.



HIGGINS' PHOTO MOUNTER PASTE

—the same unvarying quality
which thirty years ago set the
standard for the world.
—will not warp or cockle the
mount, strike through, or dis-

color.
—more solid adhesive matter
and less water than any other
pastes.
—smooth spreading.

*For commercial photographers using adhesives in large
quantities we manufacture Higgins' Vegetable Glue.*

CHAS. M. HIGGINS & CO.

271 Ninth Street
CHICAGO

Brooklyn, N. Y.

LONDON

Aids to Better Work for Professional and Amateur Photographers

Lumiere Signe Plates

The favorite plate of Europe for extreme rapidity, with the characteristic Lumiere richness of values and fineness of grain. Try them for your next Speed Negatives, Instantaneous Portraits, Flashlights, Astronomical or Scientific subjects. Wynne Speed F/181 or U. S. 2048. Watkins Speed 730.

Dianol Developer

You can well standardize on Dianol for Plates, Films and Papers.

It is simple, inexpensive, stainless. It acts quickly but is easily controlled and renders brilliant negatives well detailed.

LUMIERE AUTOCHROMES

Photographs in Full Color without Special Apparatus

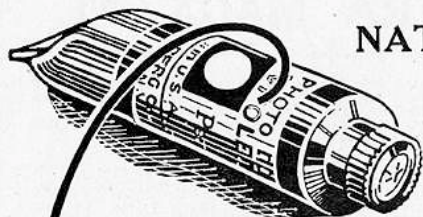
The marvelous reproductions of nature made by the Lumiere Autochromes require no greater skill to produce than ordinary photographs. Thousands of amateurs and professionals are broadening their field of pleasure and profit by this glorious invention. Any plate camera can be used; no special equipment for taking or developing except a yellow filter.

R. J. FITZSIMONS CORP.

75 Fifth Avenue

(Dept. E)

New York



NATURE'S TONES and SHADES

are perfectly brought
out in your photographs
by the use of

ROEHRIG'S TRANSPARENT OIL PHOTO COLORS

which are readily applied and give remarkable results.

GUARANTEED PERMANENT

These colors are guaranteed permanent, as no pigments are used in their manufacture until they have been thoroughly tested against the action of time and sun.

For further information write Department D.

ROEHRIG-BIELENBERG CO., Inc.
155 Nevins Street Brooklyn, N. Y.



The **KINAMO**

A movie camera using fifty or eighty feet of standard size film that almost fits the coat pocket.

Write for Catalog.

HAROLD M. BENNETT

153 West 23rd St.
New York

Actino Flash Cartridges
CONTAIN IN CONVENIENT FORM

Victor Flash POWDER



VICTOR FLASH POWDER is unequalled in actinic power and cleanliness. Always uniform in speed and actinic quality. Does not deteriorate.

Actino Flash Cartridges contain carefully measured quantities of Victor Flash Powder. They are made in three sizes to thoroughly illuminate all objects at 12 feet, 18 feet, or 30 feet. The high speed and illumination stops any ordinary movement and insures sharp, fully-timed negatives. Your dealer has Actino Flash Cartridges and Victor Flash Powder, or can easily procure them from us. Write for our free instructive booklet on Flashlight Photography.

Jas. H. Smith & Sons Company, 3536 Cottage Grove Ave., Chicago, Ill.

Holliston Photo-Cloth—

For Mounting Commercial Photographs

HOLLISTON PHOTO-CLOTH is endorsed and used by a great many photographers of long standing and experience as the most satisfactory of all materials for the backing of commercial prints.

It is self-adhesive and does away with gum, paste or any other sort of stickum. It will not fray or pull away at the corners. It ensures a firm, flexible backing, with a saving of time, labor and materials for GLOSSY, SEMI-MATTE and PORTRAIT WORK.

Holliston Photo-Cloth will be cut to any desired size without charge.

The simplicity of its application and its economy in use are worth your investigation. *Write for folders and working-samples.*

THE HOLLISTON MILLS, Inc., Norwood, Mass.

Boston, 531 Atlantic Avenue
New York, 62 West 14th Street

Chicago, 633 Plymouth Court
St. Louis, 221 Olive Street

JAPAN PAPER COMPANY

Importers of

HIGH GRADE PAPERS

from

China, Japan, Korea, France, Italy, England, Spain,
Sweden and Holland

An unusual assortment of Oriental and European Papers including Japanese Tissues—Japanese Vellum Papers—cards for folders and mounts—Soft Japanese Papers for sensitizing—European Handmade Papers in great variety for folders and mounts, including the new Italian Fabriano, double weight.

Send for Samples.

JAPAN PAPER COMPANY

109 EAST 31st STREET

709 Witherspoon Bldg.
PHILADELPHIA, PA.

NEW YORK

453 Washington Street
BOSTON, MASS.



THE WORLD'S BEST makes in cameras and lenses for the amateur worker or for the professional studio always available here at bargain prices.

*Ica, Goerz and Graflex Cameras
Carl Zeiss Lenses*

Soft Focus and Portrait Lenses
Enlarging Outfits

Supplies for Bromoil and Other Processes

ABE COHEN'S EXCHANGE

113 Park Row, New York

WARRENTEX

Works like magic

Always dependable

Reduces the cost

Raises the quality

Effective and new

Nothing like it

NEW

METHOD

MOUNTING CLOTH

Tested and tried

Eliminates waste

Xcellent results

**FOR
BACKING
COMMERCIAL
PRINTS**

WARRENTEX

WARREN PRODUCTS CO., 265 Canal St., New York

Plaubel Precision Products
Cameras—Lenses—Binoculars

*Designed and Constructed for Efficient and Lasting
Service*

RAMSTEIN PATENT FILTERS

Graded Filters—Color Filters

Adam Archinal, U. S. Agent
1409 Broadway New York City

Catalog Sent on Request

Wellington

**BROMIDE &
B. B. PAPERS**

*A range of grades for all negatives and all effects
Send for Price List and Sample Prints*

Manufactured By
WELLINGTON & WARD, Ltd.
Elstree, Herts, England

Sole United States Agents
RALPH HARRIS & COMPANY
26-30 Bromfield St., Boston, Mass.

XXX

Royal Photograph Albums

set the standard for excellence 22 years ago and are today the line by which all others are judged.

The "Royal" line comprises albums in style, size and price that meet every photographic requirement.

Royal albums have always maintained their reputation for quick sales, as their quality is instantly recognized and demanded by the public.

Catalogues, samples and prices sent to dealers promptly on request.

Look for the "Royal" Purple Box.



FARRON S. BETTS

Maker of Albums Exclusively
88 Thirty-Fifth Street, Brooklyn, N. Y.



A practical Projection Printer

at a moderate price

Always in focus

Takes no floor space

Simplicity and Efficiency
maintained throughout

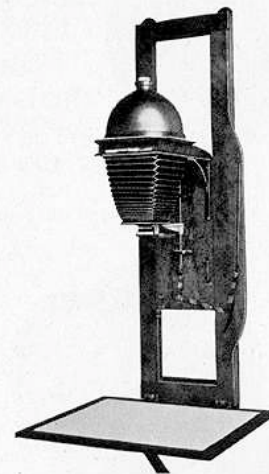
Make your dead wall space
pay dividends

At your dealers

**The Callier
Enlarger**

Brush, Colorado

Write us for circular



XXXI

ACE ACID PROOF TRAYS

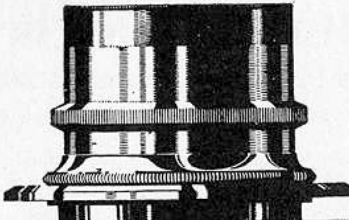
ACE Hard Rubber trays, fixing baths, stirring rods, funnels, etc., are impervious to the acids and alkalis present in photographic chemical solutions.

Chemical cleanliness—absolutely necessary in the securing of perfect negatives and prints—is assured when you use ACE Photographic Equipment. Write for bulletin.



ACE

American Hard Rubber Company
11 Mercer Street New York, U.S.A.



CARL ZEISS

Photographic Lenses

Made exclusively by the Zeiss Works at Jena, Germany. Write for Catalogue P. 226.

HAROLD M. BENNETT, U. S. Agent, 153 W. 23rd St., New York

OUR LENS DEPT.

Before you Buy, Sell or EXCHANGE your Lens—write

The Lens Man at Murphy's

A good selection of high grade second hand Lenses always on hand. We can quote you on Portrait, Commercial, Process and Soft Focus Lenses.

Get our quotations on complete outfits—and save money.

George Murphy Inc.
57 E. 9 St.
New York

Everything Photographic



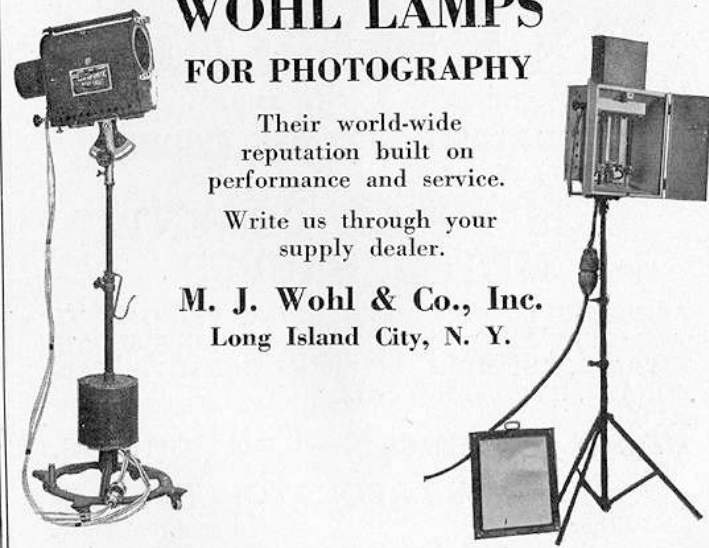
WOHL LAMPS

FOR PHOTOGRAPHY

Their world-wide reputation built on performance and service.

Write us through your supply dealer.

M. J. Wohl & Co., Inc.
Long Island City, N. Y.



Mezzotint Black Platinum

The Printing Medium De Luxe

Warm Black Tones on Smooth and Rough India Stock

More and more the best photographers are realizing that Platinum is the proper paper to use in order to produce pictures that are really artistic.

It is a simple process giving prints that do not curl and a quality that commands the respect and purchasing power of the best people.

Platinums treated with our Parchment Proof Waxing Solution have the appearance of a well made gum print.

This and Other Platinum Papers on Various Stocks

Made in the U. S. A. by the

WALLACE CHEMICAL COMPANY

Richmond Hill, N. Y.

N. Y. Office, 100 Fifth Avenue

Price and direction sheets on application

SHOULD BE IN EVERY DARK ROOM.

EXEMETOL

"DOCTOR IN THE TUBE"

AND METOL POISON ARE ENEMIES.

In tubes of 2 ounces at your dealers.

2 in 1 FILM CEMENT METOL HAUFFS

ACIDS, COLLODION, RETOUCHING VARNISH, VITRO "RUBY LAMP" DIPS, HYDROQUINONE, SILVER NITRATE, URANIUM NITRATE, SULPHITE, CARBONATE, HYPO, GOLD CHLORIDE.

Photo Chemicals—Call on Us.

HEWES LABORATORIES

34 Wither St.,

Brooklyn, N. Y.

A PERFECT emulsion, coated on clear, transparent glass, affords the ideal base for negative making.

Every ray of printing light finds passage through.



Hammer's Booklet, 10th edition, sent on request

HAMMER DRY PLATE COMPANY

OHIO AVE. and MIAMI ST.
ST. LOUIS, MISSOURI

159 WEST 22d ST.,
NEW YORK CITY, N. Y.

CAMERAS—KODAKS—LENSES and SUPPLIES

(new or used)

at record-breaking prices. Write for copies of our

Latest Catalog and Bargain Book

and convince yourself. Hundreds of "good as new" bargains listed in our Bargain Book. Right now is the best time to pick up a Bargain in the photographic line. We buy—sell and trade. A trial of 10 days is granted on every item we sell. If at the end of that time you are not satisfied with your purchase you may return same for something else, or we will refund your money.

CENTRAL CAMERA CO.

124 So. Wabash Ave., Dept. AA-2

Chicago, Ill.

PRESTO PRODUCTS ARE QUALITY PRODUCTS

The Infallible Tinting Mask

Presto Transparent Embosser

Presto Duplex Printing Machine

Presto Studio Mirror

Presto Wizard Stand

For copying, enlarging, direct photography and lantern slides. The most compact equipment made.

Free catalog upon request.

PRESTO MFG. CO.

5125 Coral Street

Pittsburgh, Pa.

Tuscan Art Prints



NUDES for the use of
Artists, Sculptors and
Students

Special Offer of 20 New Poses
by Models of Excellent Type.
Size 5x7 Double Weight Photos
Finely Finished on Buff Paper.

Prepaid, \$3.00

Sample 5x7 Miniature Sheet 25c.

New Releases Monthly.

Satisfaction assured

TUSCAN PRODUCTION

Red Bluff

Dept. A

California

XXXVI

★ **JOHNSTON'S** THE STANDARD SINCE 1915 **JOHNSTON'S**
BEWARE OF CHEAP IMITATIONS RECENTLY PLACED ON
THE MARKET

Snow White Fluid

FILLS EVERY PHOTOGRAPHIC NEED FOR A WHITE
INK FOR MARKING FILMS, NEGATIVES, PRINTS,
MOUNTS AND LEAVES OF PHOTO ALBUMS

Flows readily from pen
point, as white ink; from
brushes, as white opaque;
and from air brushes, as
a spray. No waste in any
jar. Always serviceable.



Dries quickly with raised
cameo like lines; will not
discolor, when fairly pro-
tected against moisture,
gas and dirt; adheres
firmly year after year.



1/2 oz. 25c.

ORDER FROM BETTER CLASS
PHOTO SUPPLY DEALERS
ANYWHERE, OR DIRECTLY
FROM THE MANUFACTURER.

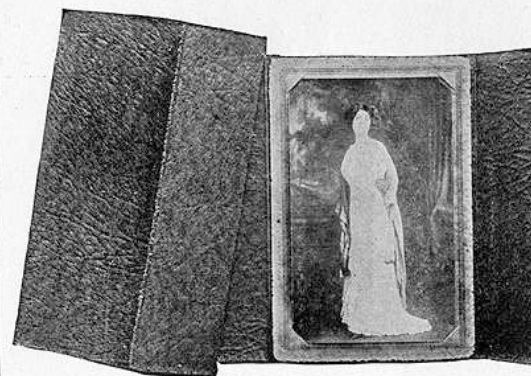
Booklets of Designs for Ornament-
ing Photo Albums Also Supplied.



1/2 oz. 25c.

J. W. JOHNSTON, Rochester, N. Y.
"New Arts Bldg."

★ **JOHNSTON'S** Please mention A. A. of P. in Ordering **JOHNSTON'S** ★



GORDON

(Corner
Pocket)

Brown Cover
Brown Insert

Brown Cover
Buff Insert

Olive Cover
Olive Insert

A high class
feathered edge
folder.

No.	For Picture	Per 100	Per 500	No.	For Picture	Per 100	Per 500
46	4x6	\$ 8.00	\$ 7.50 per 100	71	7x11	\$14.50	\$14.00 per 100
58	5x8	9.00	8.50 per 100	104	10x14	22.00	21.00 per 100
70	7x10	12.00	11.00 per 100				

GEORGE MURPHY, Inc., 57 E. 9th St., New York City

Everything Photographic

XXXVII



The largest selling Quality pencil in the world

VENUS PENCILS

For bringing out the soft tones of a photograph, deepening the shadows and emphasizing the high lights — VENUS Pencils are known the world over as perfect tools.

17 Black Degrees
6B Softest to 9H Hardest
and 3 Copying

Plain Ends, per doz., \$1.00
Rubber Ends, per doz., \$1.20

VENUS

Artists' No. 849 PENCIL

Delights the soul of a retoucher. No sharpening—always full length, in 16 degrees from 5B to 9H, with a correspondingly marked holder for each degree. Separate refill leads in boxes of 6.

No. 849 Venus Pencil
40c each

No. 842 Refill Leads
\$.60 box of 6

At stationers and stores throughout the world.

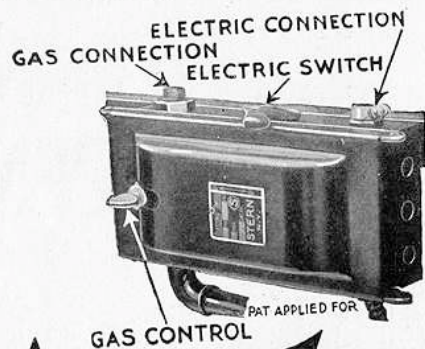
American Lead Pencil Co.

220 Fifth Ave., Dept. Ph.
New York
and London, Eng.



THE STERN DRYER

Note—when you stop the motor you automatically turn off the gas, thus making it impossible to burn the belt, a feature not found on any other dryer.



Will positively dry double or single weight prints in one revolution and will continue to dry them for the entire 24 hours of the day. There are no Crawling Belts, Springs, Weights, Lacings, Chains, to get out of order. All gearing connected direct and is fool-proof.

THE DRYER THAT WILL DRY

PHOTO PRINTS
PHOTOSTAT PRINTS
BLUE PRINTS
24 hours of the day without STOPPING to dry out the belt.

Made in the following sizes:

Will Take Prints to	Gas Heat	Electric Heat
Model 18, 18 in. wide	\$200	\$250
Model 24, 24 in. wide	225	275
Model 30, 30 in. wide	250	300
Model 36, 36 in. wide	300	350
Model 42, 42 in. wide	350	400

F. O. B. Factory

For Glossy Prints—Feed the squeeze plates into the dryer the same as prints. Dries quickly with a high gloss.

This Machine will more than pay for itself in One Season, in Time and Help Saved. No more waiting for the Last Batch to Dry. It will be ready by the time the previous batch is trimmed and sorted. Its Narrow Width allows it to pass through doorways where many other dryers cannot pass.

(Send for circular with full description.)

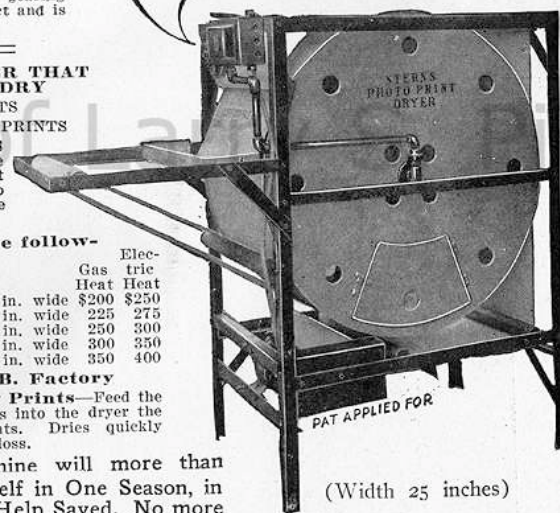
When ordering, please state what current you use, either alternating or direct.

Sole Distributors
GEORGE MURPHY, Inc.

57 EAST NINTH STREET

Everything Photographic

NEW YORK



(Width 25 inches)

Make Your Prints in Colors (40 Shades)

An Explanatory Diagram Showing the Various Stages in the Production of AUTOTYPE CARBON PHOTOGRAPHS

The Production of an Autotype Carbon Photograph
HOW IT IS DONE

A
The Coated Surface of Exposed Carbon Tissue (Pigmented Gelatine).

B
Single Transfer Paper.

C
Soak A and B in cold water, bring coated surfaces together in contact and squeegee.

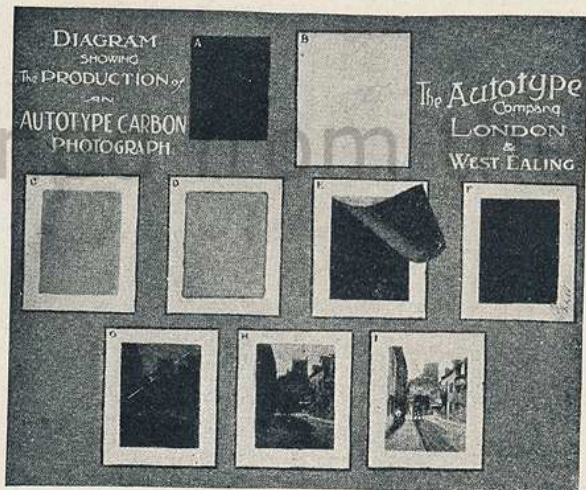
D
Place the adherent tissue and transfer paper between blotting boards for a few minutes. Next immerse in warm water, until the colored gelatine begins to ooze out at the edges.

E
Strip off the tissue backing paper and throw it away.

F
A dark mass of colored gelatine is left on the transfer paper. This remains in the warm water and the gelatine surface is sprinkled over until the picture gradually makes its appearance.

G and H
Continue until completed.

I
The picture is now placed in an alum bath (five per cent) to harden the film and discharge the bichromate sensitizing salt. A rinse in cold water completes the operation.



TRIAL SETS OF CARBON PRINTING MATERIALS

In order to combat the erroneous notion, somewhat prevalent amongst Amateur Photographers, that a trial of the Carbon Process necessarily entails the expenditure of a considerable sum on costly apparatus, we have decided to introduce trial sets of the absolutely essential materials.

PRICES OF TRIAL SETS

No. 1 Outfit for 5 x 7.....\$3.00 Postpaid
No. 2 Outfit Complete for 5 x 7..... 8.00 "
No. 4 Outfit Complete for 8 x 10.....11.50 "

American Agents, **GEORGE MURPHY, Inc.**, 57 East 9th St., New York
Send for Free Descriptive Booklet

ARTISTIC MOUNTINGS

We believe we have an important message in the mounting line for the photographer who is sincerely trying to give his best to his clientele.

To this man, if he is really anxious to deliver his pictures in their best light, we are sure we can be useful.

Our folders are designed and thought out with only one objective, namely to be a suitable setting for all good pictures.

We are sure it will repay the discriminating and painstaking photographer to see our line.

Write us, and we will furnish you with samples or information that will be to our mutual advantage. Just ask the photographer who is using our folders. He will tell our story.

GEORGE MURPHY, Inc.

57 EAST NINTH STREET NEW YORK

Everything Photographic