THE

# NTERNATIONAL Annual

OF

ANTHONY'S

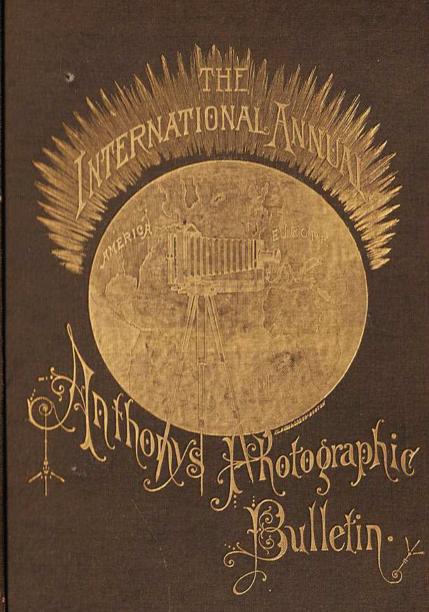
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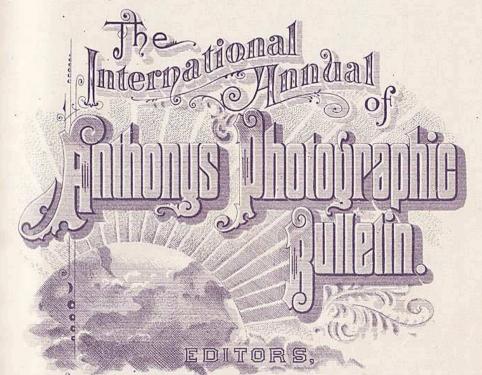


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#### PREFACE.

The fourth volume of The International Annual of Anthony's Photographic Bulletin is now ready to take its place beside the three volumes which have preceded it. Its worthiness to rank with them in value to the photographic fraternity, is a matter which must be decided by each individual reader for himself or herself.

The articles within have been cheerfully contributed by the many writers and represent the cream of the brain force which lies behind the many advances in the science of Photography. The staff of the Annual, as in previous years, is thoroughly cosmopolitan, and the articles cover experiences in almost every clime.

Our thanks are due and are tendered to the many earnest workers who, in contributing to the Annual, have done so much toward spreading information on the art. Let us also hope that they may be materially aided by the reading of other ideas to be found in juxtaposition to their own.

The illustrations are well fitted to demonstrate the present advanced state of process work and we believe are not inferior either in art or execution to those of any previous publication of this kind. The negatives from which these beautiful plates have been made, are the work of both professionals and amateurs, and as such serve to convey a good idea of the capabilities of these workers.

To our publishers we would also express our thanks, as they have, with their usual generosity, done all in their power to aid us in the production of a volume which should be worthy to rank with its predecessors.

Again, the editors would thank one and all for the willing and material aid they have rendered in this work, and ascribe to them the success of volume four of THE INTERNATIONAL ANNUAL.

ARTHUR H. ELLIOTT, W. JEROME HARRISON,
New York, U.S. A. Birmingham, Eng.

W. I. SCANDLIN, New York,
Associate Editor.

June, 1891.

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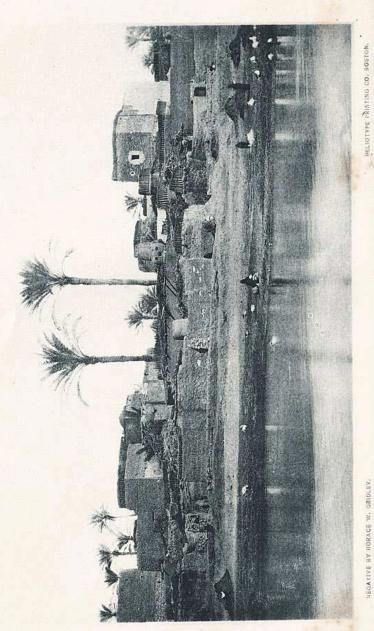
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NIL THE. ON VILLAGE

# THE \* INTERNATIONAL ANNUAL

#### ANTHONY'S PHOTOGRAPHIC BULLETIN.

JUNE, 1891.

#### ROLLABLE FILMS.

By E. F. Bacheller, Lynn Camera Club.

Rollable Films? Well, yes, slightly rollable! Especially after being cut from the roll and left in a light tight, but

not air tight box for three or four months.

Such were the films I started out to develop a few nights since and found each individual film rolled up in less than the size of a lead pencil. I thought they would come out all right by being soaked in water and accordingly threw a dozen exposures into a tray and commenced developing.

Each film had to be held by the four corners and as I am not particularly fond of soaking my hands in caustic soda for any lengthy period, I set about to devise some method of conquering the "rollers." Taking the celluloid tray, I bent a piece of



piano wire so as to spring around the tray and have the ends bend down into the tray; on these ends I put a piece of hard rubber with a rounded point and fitted them so as to bear lightly on the bottom of tray.

One of these wires for each end of the tray will hold the most obstinate film flat and make development a pleasure rather than hard work. The sketch will show the wires in position for use.

I think that hereafter when I have films to keep, I shall

Washington Camera Club (Washington, D. C.).—Organized Nov., 1883, as the "Argents." Reorganized March 19, 1887. Incorporated May 10, 1888, as the Washington Camera Club. President, Max Hausman; Vice-President, Perry B. Pierce; Secretary, M. B. Waite; Cor. Secretary, J. Albert Cole; Treasurer, A. M. Lothrop.

Waterbury, Photographic Society of. (Waterbury, Conn.) —Organized May, 1888. President, C. R. Pancoast; Vice-President, E. H. Everett; Secretary, E. E. Dewitt; Treasurer, Geo. S. Husker. Place of meeting, room 13 Brown's Block. Date of meeting, first and third Fridays each month.

WATERTOWN CAMERA CLUB.—President, A. R. Wilson; Secretary, Geo. A. Wooley. Place of meeting, 13 Washington Street. Date of meeting, Saturday evening.

YONKERS PHOTOGRAPHIC CLUB (Yonkers, N. Y.).—Organized February 8, 1889. President, John W. Alexander; Secretary and Treasurer, Robert M. Reevs, Box 720, Yonkers, N. Y.; Librarian, E. T. Sherman. Date of meeting, first Monday of each month. Annual meeting, third Monday in April. Place of meeting, Hawthorne Hall.

ZANESVILLE CAMERA CLUB (Zanesville, Ohio).—Organized March 15, 1888. President, E. C. Downard; Vice-President, M. J. Harkins; Treasurer, S. M. Culbertson; Secretary, B. V. H. Schultz. Place of meeting, 101 Main Street. Date of meeting, first Thursday in each month.

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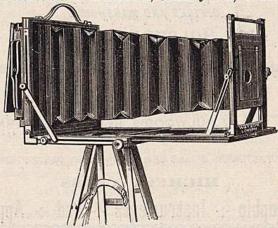
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#### Watson's "Acme" Camera.

TA NEW PATTERN TOURISTS' CAMERA, EXCEEDINGLY LIGHT AND PORTABLE, STRONG AND RIGID,

AND CONVENIENT TO USE.

Patented and Introduced, January 7th, 1889.



#### PRESS OPINIONS.

British Journal of Photography, Jan. 14th, 1889.—"It folds into a smaller compass, and is lighter and more portable, than any pattern we have yet seen; the back, by a novel arrangement, may, when required for use with a wide angle lens, be pushed forward close to the front, so that there is no protruding baseboard to interfere with the angle of the lens. The portability of the Camera is remarkable."

Amateur Photographer, Jan. 7th, 1889.—"A wonderfully compact and fairy-like instrument, exhibiting several new and important features, which are sure to make it a favorite with Tourist Photographers."

it a favorite with Tourist Photographers."

Photography, Jan. 17th, 1889.—"One of the greatest advances in Camera construction yet reached, something really good, away ahead of anything we have yet

The Camera, February 1st, 1889, in an article on the RICHMOND EXHIBITION,

says:—
"Taking the novelties first, we must follow the example of the judges, and give the premier place to Messrs. W. Watson and Sons' new Camera. It would be the premier piace to Messrs. W. Watson and Sons' new Camera. It would be thought almost impossible to create anything new in the shape of a Camera, for inventors have been for years trying how they can construct one which should have every movement required by the modern photographer, and at the same time be as light as a feather, and as rigid as one of the pyramids of the Pharaohs; and they have been most successful in their endeavors to accomplish this seemingly impossible thing. Yet Messrs. Watson have gone a step farther, and have found out by various ingenious modifications how to make the weight still lighter, and the rigid still more firm.

The English Mechanic. March 1st, 1889.—"For portability and compactness, combined with practical utility, this Camera may fairly be said to take the lead, and to be deserving of the title 'Acme.' The dark slides are fitted with patent stops and springs, little details which help to make this Camera as near perfection as prob-

ably can be reached."

#### W. WATSON & SONS, 313 High Holborn, London.

See preceding and following pages.

# PRICE LIST. mplete Outfits with "Acme" Cameras.

Note.—Any item may be chosen singly from these sets at the price marked—it is not imperative to purchase a complete set.

Nos.		631			632			633		THE STATE OF	634			635			636	
Sizes	61/2	x	43/4	73	é x	5	81/2	x	61/2	10	) x	8	.12	x	10	15	x	12
"Acme" Camera and 3	£	s.	d.	£	s.	d.	£	8.	d.	£	8.	d.	£	s.	d.	£	8.	d
Double Slides		12	0	10	0	0	12	5	0	14	0	0	16	12	6	21	0	0
Rapid Rectilinear Lens, with Iris Diaphragm. Solid Leather Travel-	4	0	0	4	10	0	5	0	0	6	15	0	8	15	Ó	11	10	0
ing case, with Spring Lock Rotating Turntable in	1	15	0	1	15	0	2	2	0	2	10	0	3	0	0	3	15	0
base, and Tripod Stand	2	2 18			2 18		2	2	0		10 4		2	15 4	0		3 10	
	18	7	0	19	5	0	22	10	0	26	19	0	32	6	6	40	18	0
Extra, if Camera and Slides are brass bound Completely fitted Chem- ical Chests with 2 doz. Dry Plates and all ac-		10	0	1	10	0	1	15	0	2	0	O.	2	10	0	. 3	0	0
cessories, as list, page 15 of Catalogue	6	5	0	6	5	0	7	10	0	9	0	0	11	10	0	13	10	0
	26	2	0	27	0	0	31	15	0	37	19	0	46	6	6	57	8	0
Roll Holders for Films Fitting same	3 0		0	3 0	7 6	6	4 0	5	0 0	5 0	8	0		10 8				
	29	8	0	30	13	6	36	6	0	43	7	0	53	4	6			

#### INNER FRAMES for Dark Slides, to take smaller size Plates.

The Measurements given are the outside size of Frames, the inside may be any size

61/2 x 43/4	7½ x 5	8½ x 6½	10 x 8	12 x 10	15 x 12
1/9.	1/9.	2/3.	2/6.	3/-	4/-

The above Prices are all subject to 10 per cent. discount for Cash with Order (excepting Roll Holders, which are net).

#### W. WATSON & SONS, 313 High Holborn, London,

See preceding and following pages.

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Within the last two years we have revised the forms of all our Lenses, altering in some instances, where we have thought it advantageous, the focus, and the instruments we now supply will be found of special efficiency, combining in an eminent degree the excellent qualities of crispness of image, rapidity and depth of focus, according to their various forms; while our system of inspection, and the care exercised in supervision, will insure that nothing leaves our establishment that does not attain our very high standard of excellence. We have also largely introduced the use of Aluminium for Lens Mounts, which makes an enormous reduction in the weights, especially of the larger Lenses. The extra cost for mounts in this material will be found marked against each. The metal used is not pure Aluminium, but an alloy, which, while not affecting its lightness, makes it exceedingly tough, and so, strong enough to stand the wear and tear of general Lens used, which pure Aluminium fails to do satisfactorily.

#### WATSON'S RAPID RECTILINEAR LENSES.

For Groups, Views, and all kinds of Outdoor Photography.

In	Rigid Me	ounts, w	rith Iris Dia	phragm	3.	Brass Tubes.	Aluminium Mounts.
		es of I	lates Centims.	Dia- meter.	Equiv. Focus.	Prices.	Prices.
1550	41 ×	31		3 in.	5 in.	£2 12 6	£3 12 6
1551	5 "	. 4		1 "	6 "	2 17 6	4 0 0
1552	61 "	43	10000	11 "	8 "	4 0 0	5 5 0
1553	8 "		$18 \times 13$	18 "	81 "	4 10 0	5 15 0
1554	8 '8 '8 '8 '8 '8 '8 '8 '8 '8 '8 '8 '8 '8	$6\frac{1}{2}$	21 " 15	11 "	11 "	5 0 0	7 0 0
1555	10 "		24 " 18	2 "	131 "	6 15 0	8 10 0
1556	12 "	10	30 " 24	21 "	16 "	8 15 0	11 0 0
1557	15 "	12	33 " 27	21 "	20 "	11 10 0	15 0 0
1558	18 "	16	40 " 30	3 "	24 "	16 0 0	22 10 0
1559	22 "	20	1900	31 "	30 "	23 10 0	31 10 0

Nos. 1550 and 1551 may be had accurately paired for Stereoscopic Work.

#### WATSON'S WIDE-ANGLE RECTILINEAR LENSES.

Nos.	Sizes of Plates.			valent cus.	With phrag Mo		rass	Alun	ninii	
1591	English Ins.	Centimetres.	3	in.	£2	17	6	£3	17	6
1592	61 " 43	$13 \times 18$	4	**	3	7	6	4	10	0
1593	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	21 " 15	51	"	4	10	0	5	15	Ŏ
1594	10 " 8"	24 " 18	$\frac{5\frac{1}{2}}{6\frac{1}{2}}$	66	5	10	0	7	0	ŏ
1595	12 "10	30 " 24	81	"	6	10	0	8	ő	0
1596	15 " 12	33 " 27	12		8	0	0	10	10	0
1597	18 "16		15	**	9	10	0			0

No. 1591 may be had accurately paired for Stereoscopic Work.

The above Prices are subject to 10% Discount for Cash with Order.

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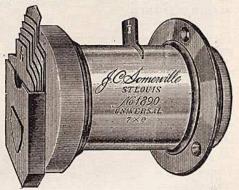
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3	21-8	12 3-4	8 x 10	40.00	47.50
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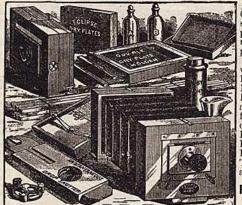


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Can be mounted in Aluminium when required. Prices on application.

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#### Prices-RAPID RECTILINEAR.

Size,	41 x	311	5 x	4	61 X	5	8 x	5	81 x	61	10 x	8	12 x	10	15 x	12	18 x	16
Diaphragms	£2 3	5	£2	10	£3	10	£4	0	£4	10	£6	0	£8	0	£10	10	£14	0
Iris Diaphragms	3	0	3	5	4	5	4	15	5	5	6	15	9	0	11	15	15	10
The full apertur	re of	t1	iese	lei	ises	is	f/8.	ex	cept	ing	the	to	wo f	irs	. w	hic	h ha	ve

#### Prices-WIDE ANGLE RECTILINEAR.

Approximate Angle included, 90 degrees. Largest aperture, f/16.

Focus,  $\begin{vmatrix} 3 \text{ in} & | 4 \text{ in} & | 5 \text{ in} & | 6 \text{ in} & | 7 \text{ in} & | 8 \text{ in} & | 9 \text{ in} & | 10 \text{ in} & | 12 \text{ in} & | 18 \text{ in} & | 21 \text{ in} \\ \text{Price,} & \pounds 2 & 10 & \pounds 2 & 15 & \pounds 2 & 17 & 6 & \pounds 3 & 0 & \pounds 3 & 15 & \pounds 4 & 10 & \pounds 5 & 5 & \pounds 6 & 0 & \pounds 7 & 0 & \pounds 8 & 0 & \pounds 10 & 0 & \pounds 12 & 0 \end{vmatrix}$ 

The sizes from 3 to 10 inch fit one flange, and the tubes being the same size, the lenses are interchangeable. Up to and including 9 inches focus, they are fitted with Revolving Stops; beyond these sizes Waterhouse Stops are used, but the Iris Diaphragm, 15s. extra, is strongly recommended for all sizes above 7 inches.

#### WIDE ANGLE LANDSCAPE LENSES.

SIZE,	5 x 4	616 x 5	716 x 5	816x616	10 x 8	12 x 10	15 x 12
Focus,	5 x 4 5 in £1 15	61/2 in	71/2 in	9 in	10 in	12 in	15 in
PRICE,	£1 15	£2 5	£2 10	£3 0	£3 15	£4 10	£5 10

#### NARROW ANGLE LANDSCAPE LENSES.

FOR DISTANT VIEWS.

SIZE,	5 x 4	616 x 5	71/2 x 5	816x616	10 x 8	12 x 10	15 x 12
Focus, PRICE,	7½ in £1 10	9 in £1 15	10 in £2 0	8½x6½ 12 in £2 10	15 in £3 5	18 in £4 0	21 in £4 15

The Landscape Lenses are fitted with Rotating or Waterhouse Stops. Iris Diaphragms, 15/- extra.

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#### HAND CAMERAS.

Largest working aperture, f/8.

Wa	aterho	ouse	St	ops. I	ris Diap	hrag	ms.
41/2 in. focus	£2	5	0		£3	0	0
5 m. "	2	5	0		3	0	0
51/6 in. "	2	5	0	****************	3	0	0
6 in. "	2	10	0		3	5	0
Focussing Jacket, with rack and p	inion				0	15	0

#### SINGLE STEREO LENSES.

#### CASKET LENSES.

Three Landscape Lenses, fitting one Mount, having Iris Diaphragm, with separate scale of apertures for each Lens.

For P	lates	5	by	4,	Lenses	5	in.,	71/6	in.,	and	10 in.	focus	£5	5
		61/2	by	5,	Lenses	61/2	in.,	9	in.,	and	12 in.	focus	6	5
		81/2	by	61/2,	Lenses	9	in.,	12	in.,	and	15 in.	focus	8	5

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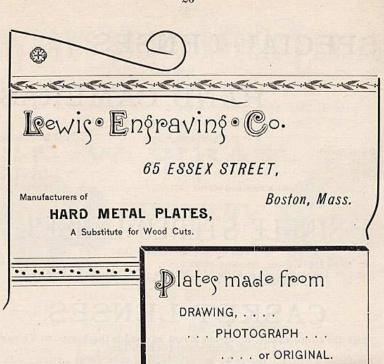
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Price,	4.0.0	4.5.0	5.5.0	5.15.0	6.10.0	7.10.0	8.10.0	10.10.0	11.10.0	14.10.0

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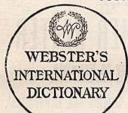
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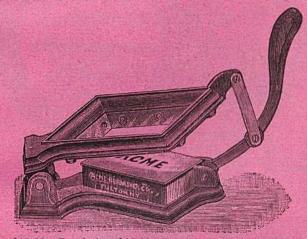
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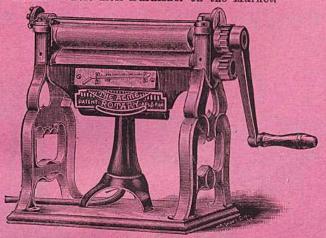
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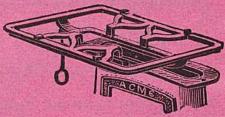
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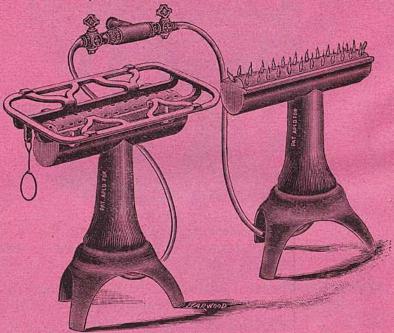
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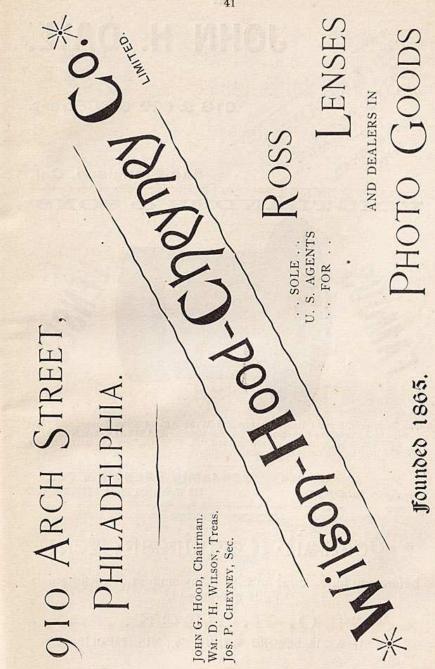
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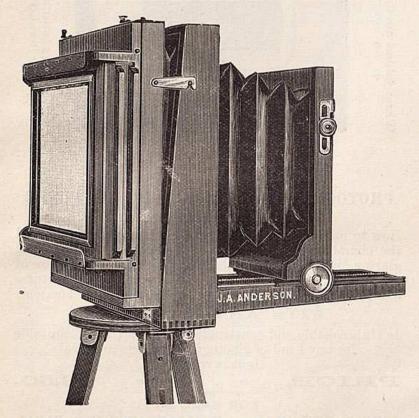
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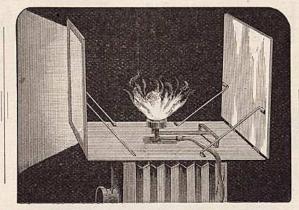


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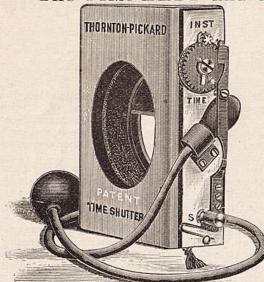
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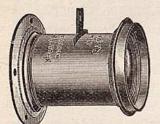
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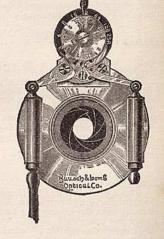
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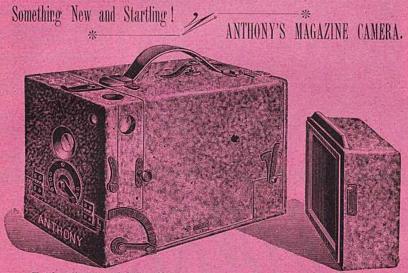
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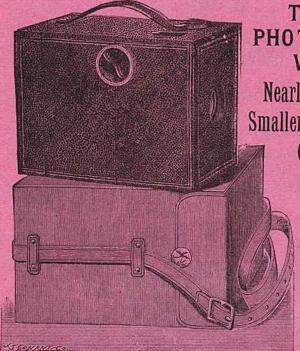


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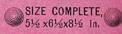
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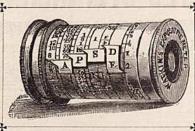
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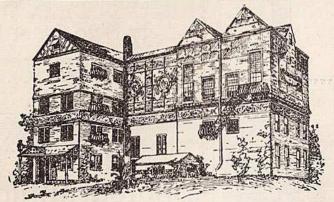
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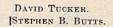
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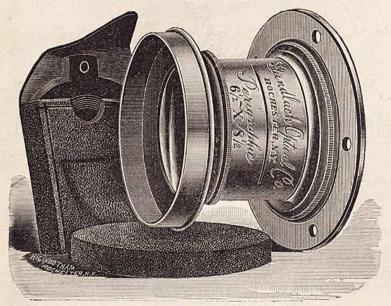
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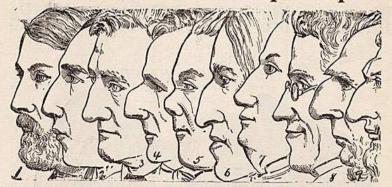
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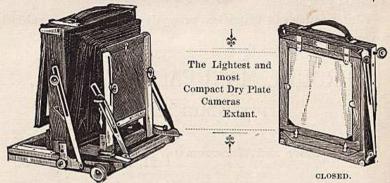
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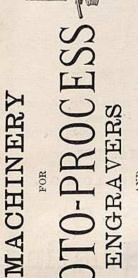
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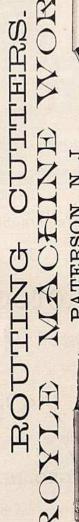
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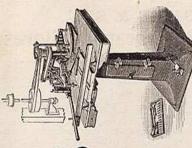
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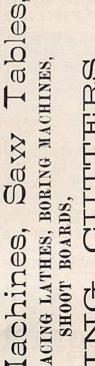
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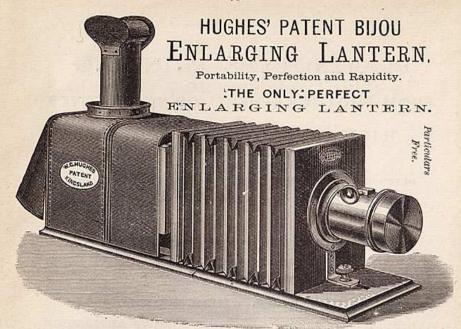
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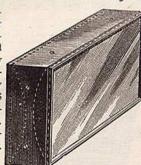
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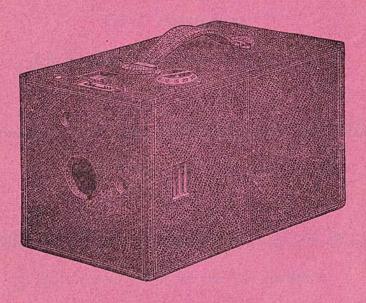
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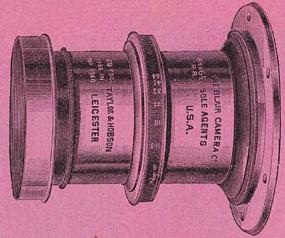
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