

H. J. GAISMAN.
 PHOTOGRAPHIC APPARATUS.
 APPLICATION FILED JUNE 25, 1914.

1,203,603.

Patented Nov. 7, 1916.

3 SHEETS—SHEET 1.

Fig. 1.

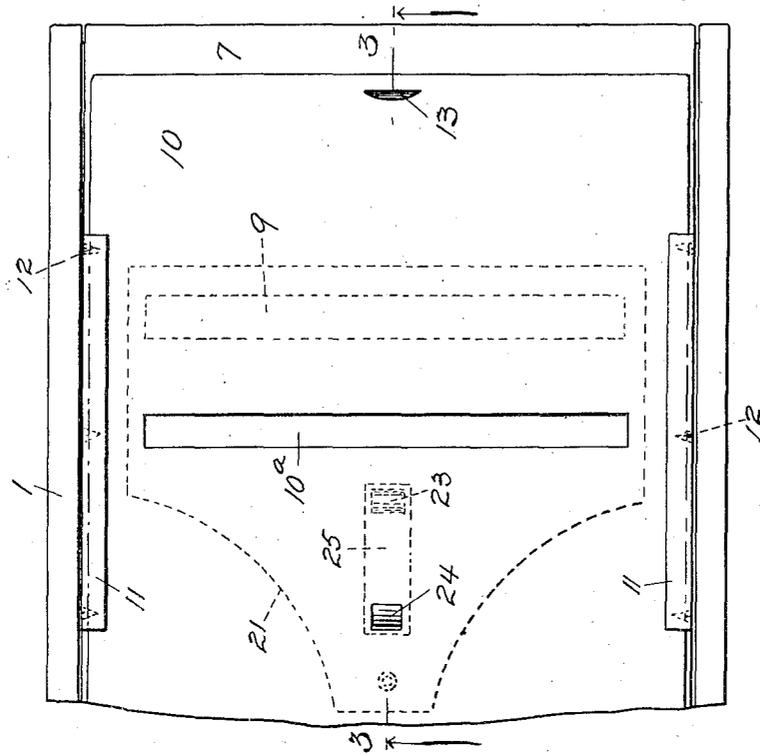
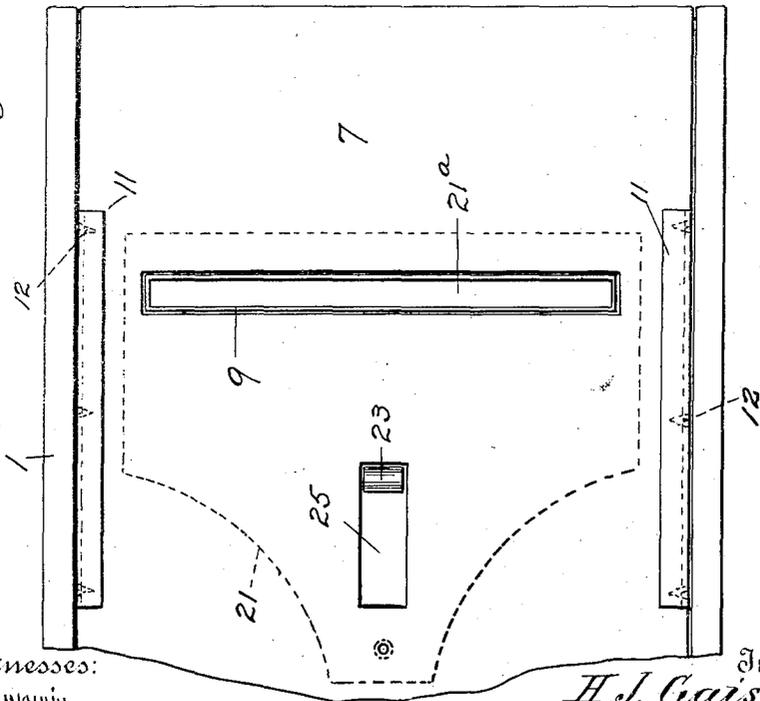


Fig. 2.



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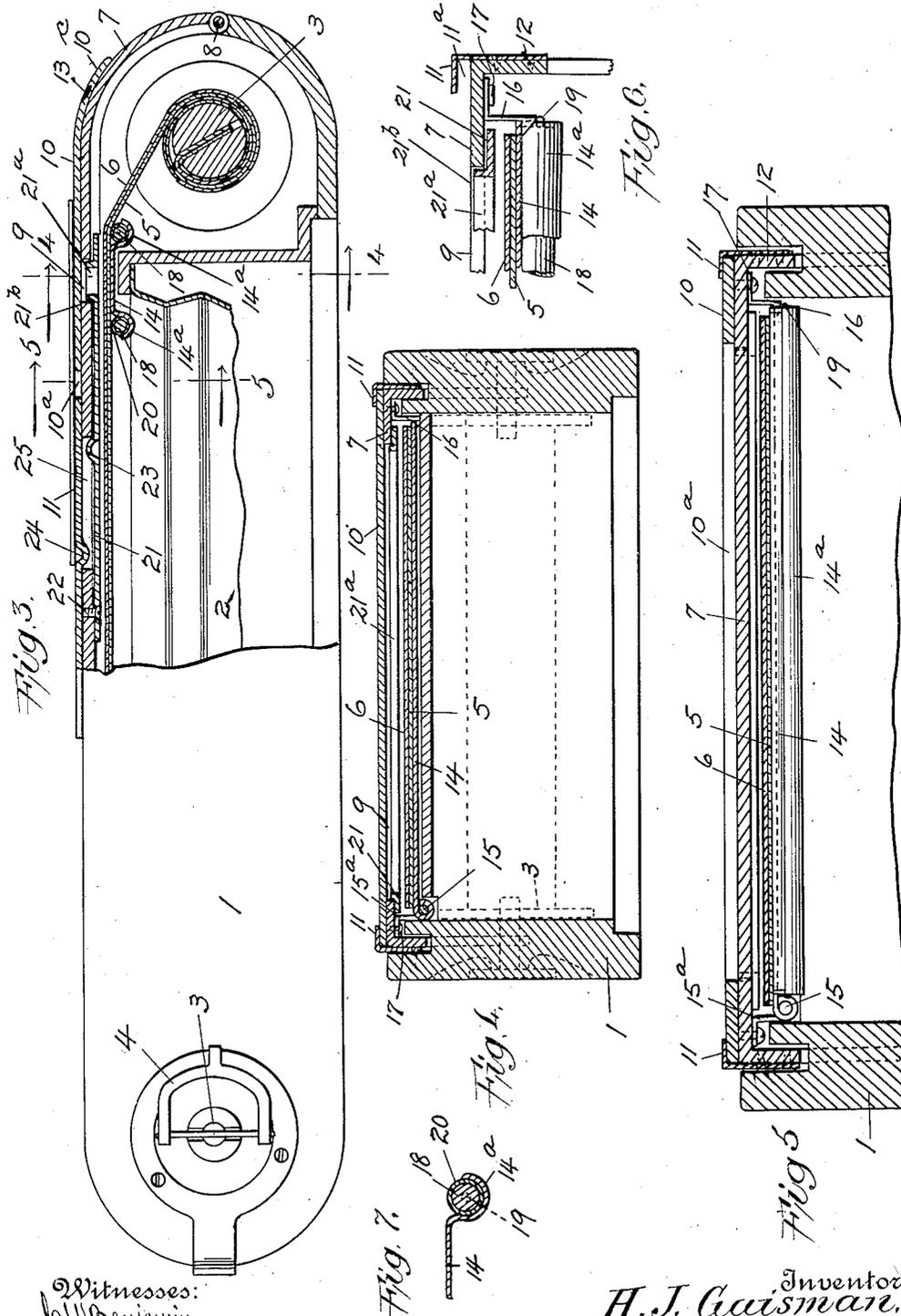
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 By His Attorney
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 3 SHEETS—SHEET 3.

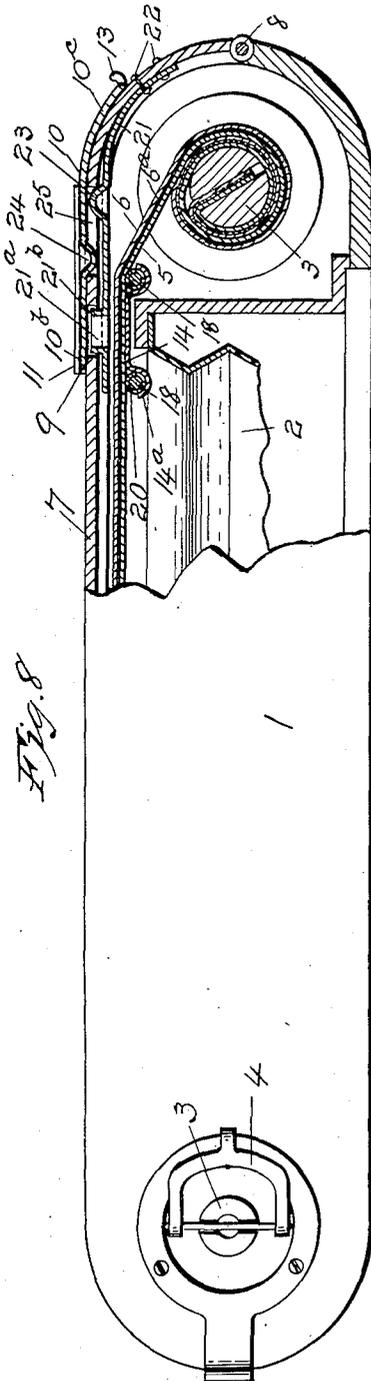


Fig. 8

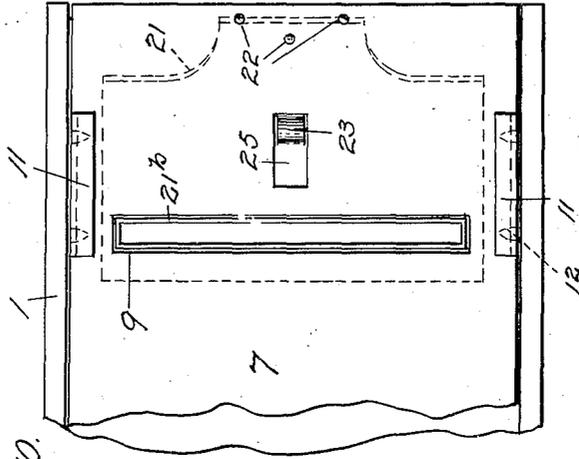


Fig. 10

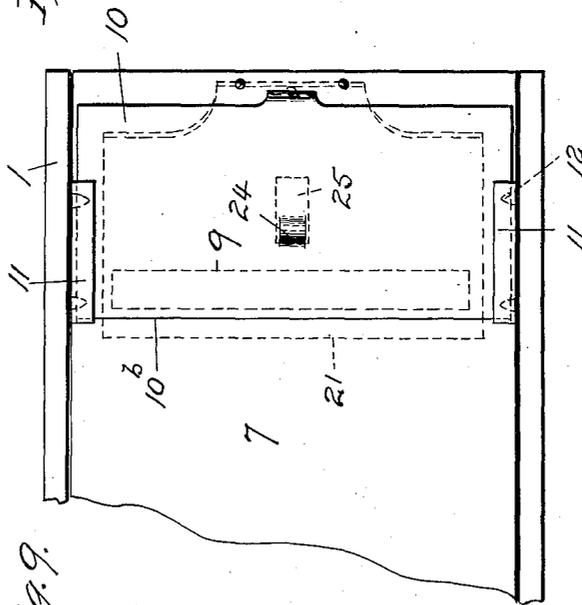


Fig. 9

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UNITED STATES PATENT OFFICE.

HENRY J. GAISMAN, OF NEW YORK, N. Y., ASSIGNOR TO EASTMAN KODAK COMPANY,
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PHOTOGRAPHIC APPARATUS.

1,203,603.

Specification of Letters Patent.

Patented Nov. 7, 1916.

Application filed June 25, 1914. Serial No. 847,356.

To all whom it may concern:

Be it known that I, HENRY J. GAISMAN, a citizen of the United States, and resident of New York city, borough of Manhattan, in the county of New York and State of New York, have invented certain new and useful Improvements in Photographic Apparatus, of which the following is a specification.

My invention relates to improvements in photographic apparatus, cameras or roll holders, and has particular reference to improved means to permit writing or marking to be effected against a contained sensitized element or film, to enable designations or indicia to be produced thereon at will.

Another object of the invention is to provide the main movable cover of the camera with a support carried by such cover to oppose said opening, through which the writing or marking is to be performed, and a further object is to provide a slidable protector for said opening, which protector may be mounted upon the cover and may be adapted to operate means for clamping the sensitized element or film firmly against the writing support underlying the same, in position opposed to said opening through which the writing or marking is effected.

Other objects of my invention and details of construction will be more fully hereinafter set forth and then pointed out in the claims.

Reference is to be had to the accompanying drawings forming part hereof, wherein,

Figure 1 is a plan view of a portion of a photographic apparatus or camera embodying my invention, showing the sliding protector for the writing opening in the closed position; Fig. 2 is a similar view, said protector being omitted; Fig. 3 is a side view of the camera partly in section on the line 3, 3, in Fig. 1; Fig. 4 is a section on the line 4, 4, in Fig. 3; Fig. 5 is a section on the line 5, 5, in Fig. 3, enlarged; Figs. 6 and 7 are enlarged detail sections; Fig. 8 is a partly sectional side view of the camera, illustrating a modified arrangement of some of the parts; Fig. 9 is a plan view of a portion thereof, and Fig. 10 is a view similar to Fig. 9, the protector 10 being omitted.

Similar numerals of reference indicate corresponding parts in the several views.

The frame or body portion 1 of the photographic apparatus or camera may be of any desired or suitable construction, having a

bellows 2, (a lens not shown), and means for supporting the spools or film supports 3 in any well known manner, suitable means, such as shown at 4, being provided for winding the sensitized element or film 5 from one spool upon another. The sensitized element or film 5, which, in itself, may be of any well known construction, is provided with an outer opaque protecting cover, indicated generally at 6, adapted to be wound together upon the spools. Cover 6 is of such a nature or character as to prevent the light from striking therethrough to the film except where such cover may be written or marked upon or against, as hereinafter explained.

The wall or cover for the camera, indicated at 7, may be of any well known construction adapting it to be movably fitted upon the camera frame and held thereon in any well known manner. I have shown said cover as pivotally connected with the camera body as at 8, Fig. 3, whereby said cover may be swung away from the camera body without requiring the cover to be entirely removed therefrom, although the cover may be entirely removable as customary, if desired. The cover 7 is provided with an opening 9, shown located near one end of the camera and extending transversely across the cover with its ends terminating at desired distances from the longitudinal edges of the cover, whereby to prevent light from passing around the edges of the film 5 when the opening 9 is exposed to the light.

At 10 is a protecting slide or supplemental cover for the opening 9, so as to cover the latter to prevent the entrance of light except when it is desired to produce designations upon the film. As shown in Figs. 1, 3 and 5 said slide or cover 10 is provided with an opening 10^a, which is formed substantially like the opening 9 so as to register with the latter when the slide or cover 10 is moved along an appropriate distance. Instead of having an opening 10^a in slide or supplemental cover 10 the edge 10^b of said cover 10 may be so located as to pass beyond and uncover the opening 9 when it is desired to produce designations upon the film, as illustrated in Figs. 8 and 9. In either event, when the opening 9 is not being used, the slide or cover 10 may be adjusted over said opening to protect it against the entrance of light therethrough, but by

suitably moving the protecting slide or cover 10 along the cover 7, the opening 9 may be exposed either through the opening 10^a or along the edge 10^b, whereby writing or marking through the opening 9 against the protecting cover 6 of the element or film 5 may be accomplished. When the slide or supplemental cover 10 is pulled outwardly to expose the opening 9, said slide or supplemental cover will afford a rest for the hand of the user when writing or marking through opening 9 against the protecting cover of the film.

Any suitable means may be provided for slidably or movably supporting the slide or supplemental cover 10 upon cover 7. For this purpose I have shown the cover 7 provided with guides 11, which may be secured or otherwise formed on the cover 7, forming guideways 11^a, (Fig. 6), to receive the slide or supplemental cover 10. In the form shown, the guides 11 are made from metal strips bent to desired shape, and secured by screws or the like 12 along the edge portions of cover 7. By means of a dent or handle, indicated at 13 the slide or supplemental cover 10 may be operated to cause exposure of the opening 9. As shown, the outer end portion 10^c of slide or supplemental cover 10 is curved so as to lie snugly respecting the correspondingly curved portion of cover 7, serving as a stop to limit the movement of slide or supplemental cover 10 in one direction relatively to cover 7.

Opposed to opening 9 of cover 7 and to the element or film 5 and its cover 6, I provide a support for the film for use when designations are being written or marked against the same. Such support may be within the camera and mounted in any suitable manner. I have illustrated such support at 14 in the form of a suitable plate over which the element or film is located. I have also shown means whereby the writing support 14 is carried by cover 7 and extends transversely beneath the same, and said support is movably carried by said cover in the example illustrated. To this end I have shown support 14 connected at one end with cover 7 by a hinge 15, (Figs. 4 and 5) and at the opposite end of support 14 is a suitable catch or retainer 16 carried by cover 7. The hinge 15 is shown supported upon cover 7 as in the nature of a bracket at 15^a. The catch 16 may be of any suitable construction and is shown secured to cover 7 by a screw 17, and is movably or resiliently adapted to be moved to one side to release support 14. By providing support 14 movably carried on the cover the film and its cover 6 may be readily placed in position between support 14 and cover 7 by suitably moving support 14 for the purpose. In order that the film may readily slide upon support 14 and to overcome danger of

scratching the surface of the film due to relative movement between the latter and support 14, the latter may be provided with one or more rollers 18 extending along its longitudinal edge or edges. I have shown said rollers located in gutters 14^a at the longitudinal edges of support 14, and said rollers may be carried upon the supports by pivots 19 at their ends (Figs. 6 and 7). The rollers 18 may be of any suitable construction. I have shown said rollers as provided with coverings 20 which may be of suitable soft material, such as rubber, (Fig. 7), to avoid scratching the surface of the film.

In order to hold a portion of the film and its protecting cover in position on support 14, opposed to the opening 9, while the writing or marking on the cover is being produced, so as to keep the film and its covering flat to prevent light from striking the film beyond the margins of opening 9, while the designations or indicia are being produced, I provide a resilient plate or the like 21 that is secured to cover 2 over element or film 5, as at 22, which plate is provided with an opening 21^a in register with opening 9. The margin of said opening 21^a is shown provided with an extended rim or eyelet-like portion 21^b entering opening 9 to serve as a light excluder. The plate 21 is normally held out of contact with flexible strip or cover 6, and is shown provided with a projection 23 adapted to be engaged by a projection 24 on slide or supplemental cover 10, which projection 24 is adapted to travel in a longitudinal slot 25 in cover 7, into which slot the projection 23 extends. The distance between projections 23 and 24 is substantially equal to the distance between openings 9 and 10^a when the slide or supplemental cover 10 is in the inactive or protecting position shown in Fig. 3, and as shown in Fig. 8, the distance between the projections 23 and 24 is such that when slide or supplemental cover 10 is pulled out, so that said projections are in engagement, the edge 10^b of slide 10 will uncover opening 9, so that when said slide or cover 10 is shifted to expose the opening 9 the projection 24 will engage projection 23 to push plate 21 inwardly to cause it to press the strips 5, 6, toward support 14 with a firm light-excluding pressure, which pressure will be maintained during the time that the designation or indicia is being manually produced upon the covering 6 through the exposed opening 9, and while projections 23, 24 are in engagement. When the slide or supplemental cover 10 is pushed back to its normal position, the projection 24 will release plate 21 which will rise from cover or strip 6 and the opening 9 will be closed, as in Figs. 3 and 8. The film is thus normally free to be wound on its receiving spool with-

out contact with plate 21 when the slide or supplemental cover 10 is in the normal position closing the opening 9.

My improvements afford simple and efficient means to enable designations or indicia to be produced upon covering 6, and enable the outer surface of the camera cover or back 7 to be free from undue projections, and afford light excluding means of an efficient character. It will be understood, also, that by means of the protecting cover for the sensitized element or film 5, indicia produced on the cover by writing against the same with a pencil, stylus or the like through the opening 9, will permit the light to strike through such covering 6 where the designation or indicia is produced to photographically affect the sensitized element or film beneath or opposed to such designation or indicia correspondingly.

The opaque protecting cover 6 may comprise a single flexible sheet permitting the passage of actinic rays and having, on one or both of its sides a coating of displaceable material, such as carbon, or a displaceable strip or sheet, such as in the nature of a carbon sheet, of well known character, may be comprised in the protecting covering as by being interposed between the cover 6 and the sensitized element or film 5 as indicated at 6^a in Fig. 8.

My invention is not limited to the use of the particular character of light protecting cover 6 for the sensitized element or film 5 above referred to, as any other suitable protecting strip having a displaceable or transferable surface or being of such a nature or character as to permit the displacement of the surface where the writing or marking is produced, to enable light to pass through such written or marked portion, to photographically affect the sensitized element opposed to the designation or indicia may be used, or the strip 6 itself may be sufficiently opaque to prevent the passage of injurious light therethrough except where portions of it, or its displaceable surface, are displaced or made less opaque by the marking against the same. It will be understood, also, that the designations photographically produced upon the film as described, may be accomplished without the use of the ordinary lens of the camera (not shown).

My invention is not limited to the particular details of construction shown and described, as the same may be varied, within the scope of the appended claims, without departing from the spirit of the invention.

Having now described my invention what I claim is:—

1. A photographic camera provided with an opening to permit the production of designations against a contained sensitized element, and a protecting member carried by the camera and movable relatively thereto

parallel with the plane of the camera wall, said protecting member being adapted to cover and expose said opening in different positions of adjustment of said member, with means for retaining said member over said opening for excluding light therefrom.

2. A photographic camera provided with an opening to permit the production of designations against a contained sensitized element, and a protecting member carried by the camera and movable relatively thereto parallel with the plane of the camera wall, and provided with an opening adapted to register with the first named opening, with means for retaining said member over said opening to exclude light therefrom.

3. A photographic camera having a movable cover provided with an opening adapted to permit designations to be made there-through against a contained sensitized element, and a supplemental cover movably mounted upon the first named cover, adapted to be moved parallel with the plane of said cover, and provided with an opening to register with the first named opening, and means to movably support the supplemental cover in operative relation to the first named opening.

4. The combination with a photographic camera body provided with an opening in a wall thereof adapted to permit arbitrary designations to be made against a contained sensitized element, and a support to hold a portion of said element immediately adjacent said opening, of a cover slidably mounted upon the camera to normally protect said opening and adapted to be moved to expose said opening, the said camera wall being located between the cover and the sensitized element.

5. The combination with a photographic camera having a cover provided with an opening adapted to permit arbitrary designations to be made against a contained sensitized element and a support to hold a portion of said element immediately adjacent said opening, of a supplemental cover slidably mounted upon the exterior of the first named cover to normally protect said opening and adapted to be moved to expose said opening and exterior guides upon the first named cover slidably receiving the supplemental cover.

6. A photographic camera having a curved portion and having a wall provided with an opening adapted to permit designations to be made therethrough against a contained sensitized element, a supplemental cover slidably along said wall and adapted to conceal and expose said opening, and guides upon the camera slidably receiving the supplemental cover, the supplemental cover having a portion bent to correspond with and lap against the corresponding curvature of said wall.

7. A photographic camera having a cover provided with an opening adapted to permit designations to be made therethrough against a contained sensitized element, and a support for said element carried by said cover.
8. A photographic camera having a cover provided with an opening adapted to permit designations to be made therethrough against a contained sensitized element, a support for said element carried by said cover, and means to maintain said support opposed to said opening to support the sensitized element in register with said opening when designations are made therethrough against said element.
9. A photographic camera having a cover provided with an opening adapted to permit designations to be made therethrough against a contained sensitized element, and a writing support movably carried by said cover to underlie the sensitized element.
10. A photographic camera having a cover provided with an opening adapted to permit designations to be made therethrough against a contained sensitized element, a writing support movably carried by said cover to underlie the sensitized element, and means to maintain said support in register with said opening with the portion of the sensitized element therebetween when designations are made against said element through said opening.
11. A photographic camera having a cover provided with an opening to permit designations to be made therethrough against a contained sensitized element, and a support for said element carried by said cover, said support being provided with a roller for said element.
12. A photographic camera having a cover provided with an opening to permit designations to be made therethrough against a contained sensitized element, and a support for said element carried by said cover, said support being provided with a roller for said element, said roller being provided with a covering of soft material to protect the surface of the sensitized element.
13. A photographic camera having a cover provided with an opening to permit designations to be made therethrough against a contained sensitized element, a support pivotally carried by said cover, and means to retain said support in writing position opposed to said sensitized element.
14. A photographic camera having a cover provided with an opening to permit designations to be made therethrough against a contained sensitized element, a support for a portion of said element, a hinge at one end of the support connecting the latter with the cover, and a catch device adapted to coact with the opposite end of the support.
15. A photographic camera having a cover provided with an opening to permit designations to be made therethrough against a contained sensitized element, a support for a portion of said element carried by said cover, and means to clamp said element against said support.
16. A photographic camera having a cover provided with an opening to permit designations to be made therethrough against a contained sensitized element, a support for a portion of said element carried by said cover, a resilient plate carried by the cover over said support and having an opening registering with the first named opening, and means to cause said plate to press a portion of the sensitized element upon said support.
17. A photographic camera having a cover provided with an opening to permit designations to be made therethrough against a contained sensitized element, a support for a portion of said element carried by said cover, a resilient plate carried by the cover over said support and having an opening registering with the first named opening, a slidable member carried by said cover and adapted to conceal and expose said opening, and means operative by said slide to cause the sensitized element to be clamped against said support.
18. A photographic camera comprising a body, a cover pivotally connected to said body, said cover having an opening to permit designations to be made therethrough against a contained sensitized element, a support within the camera for the portion of said element opposed to said opening, and a slidable member carried by said cover and adapted to conceal and expose said opening.

Signed at New York city, in the county of New York, and State of New York, this 24th day of June, A. D. 1914.

HENRY J. GAISMAN.

Witnesses:

T. F. BOURNE,
MARIE F. WAINRIGHT.