

No. 817,614.

PATENTED APR. 10, 1906.

H. E. BAER.
FILM SUPPORT.
APPLICATION FILED NOV. 2, 1905.

2 SHEETS—SHEET 1.

Fig. 1.

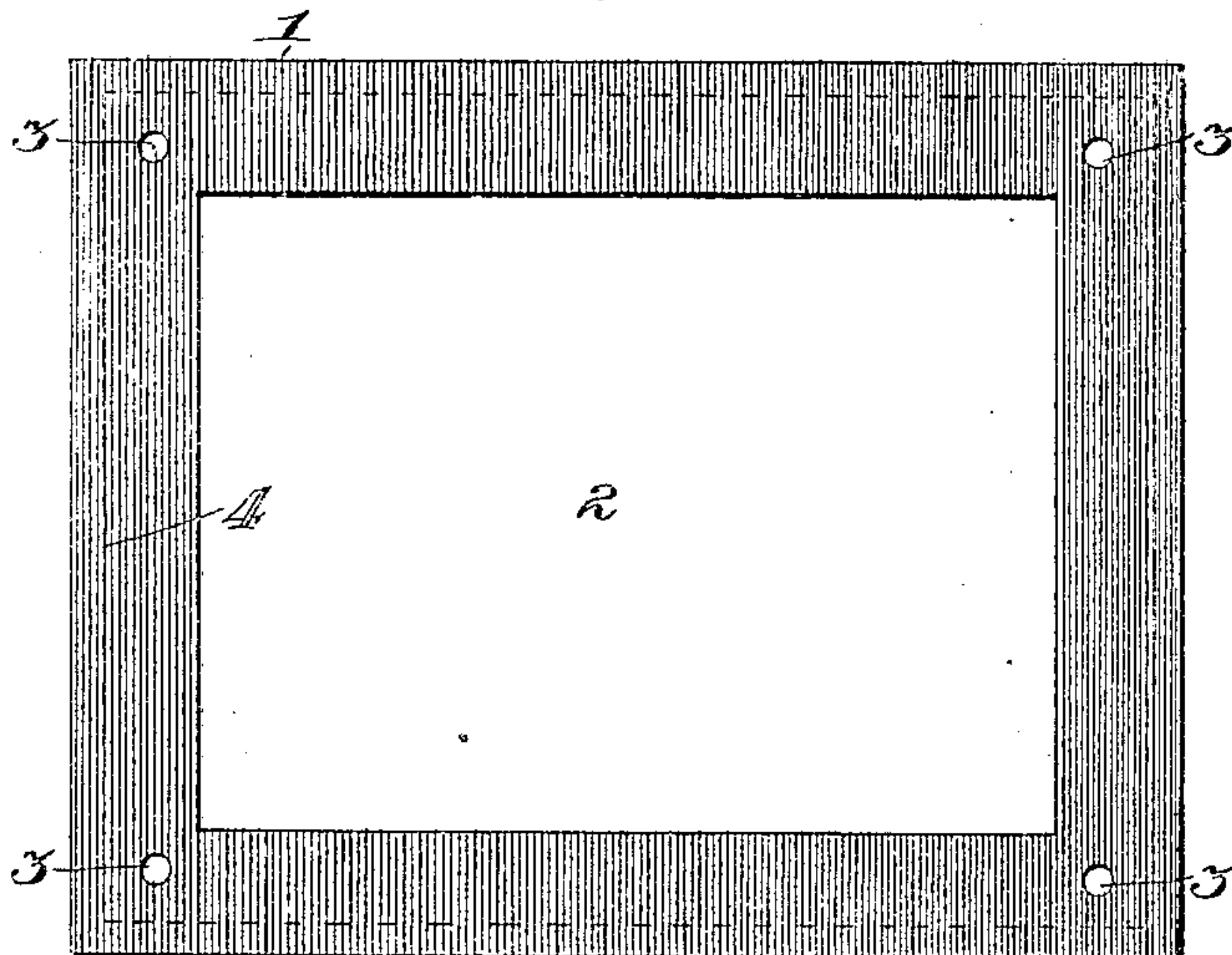
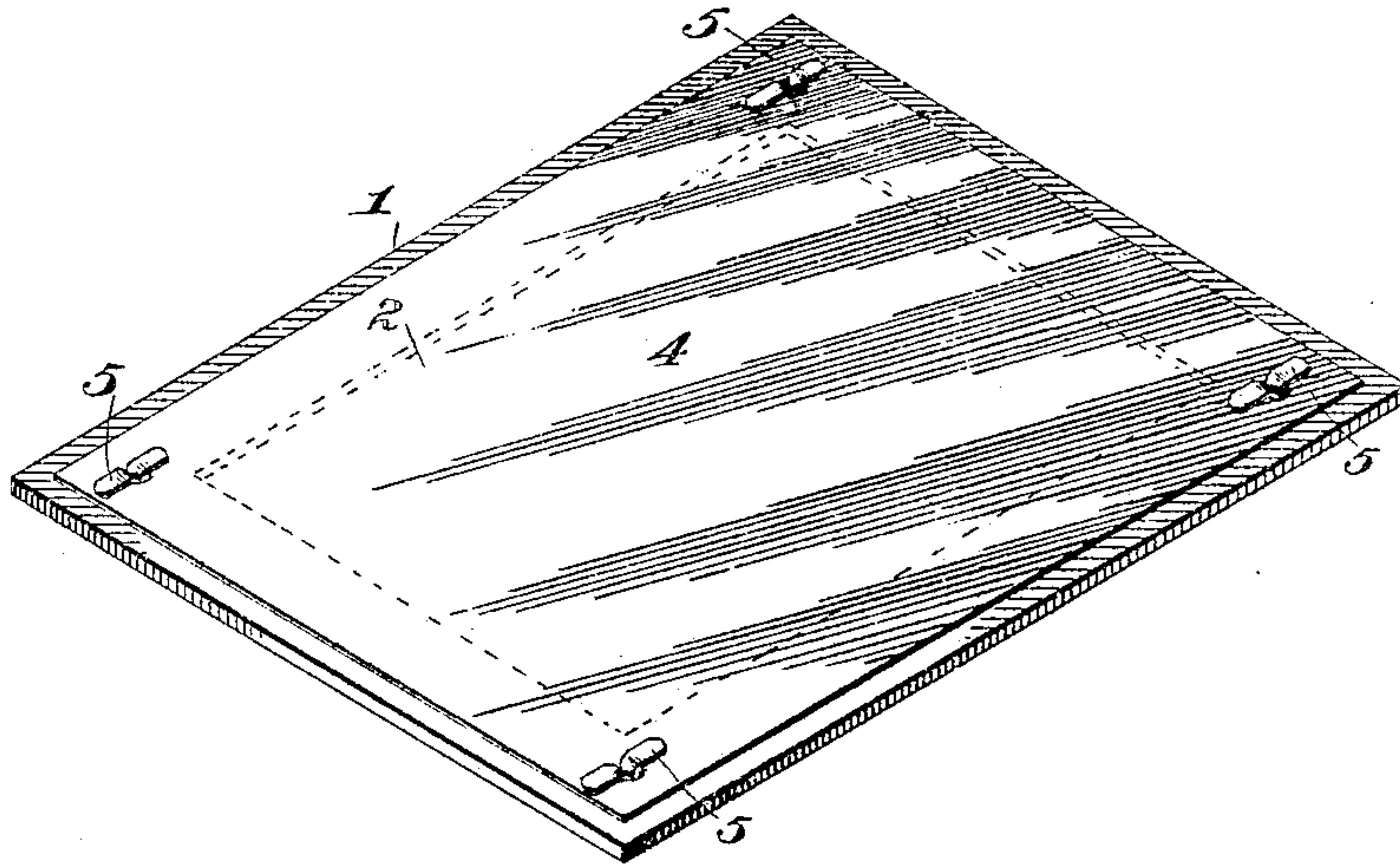


Fig. 2.



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Fig. 3.

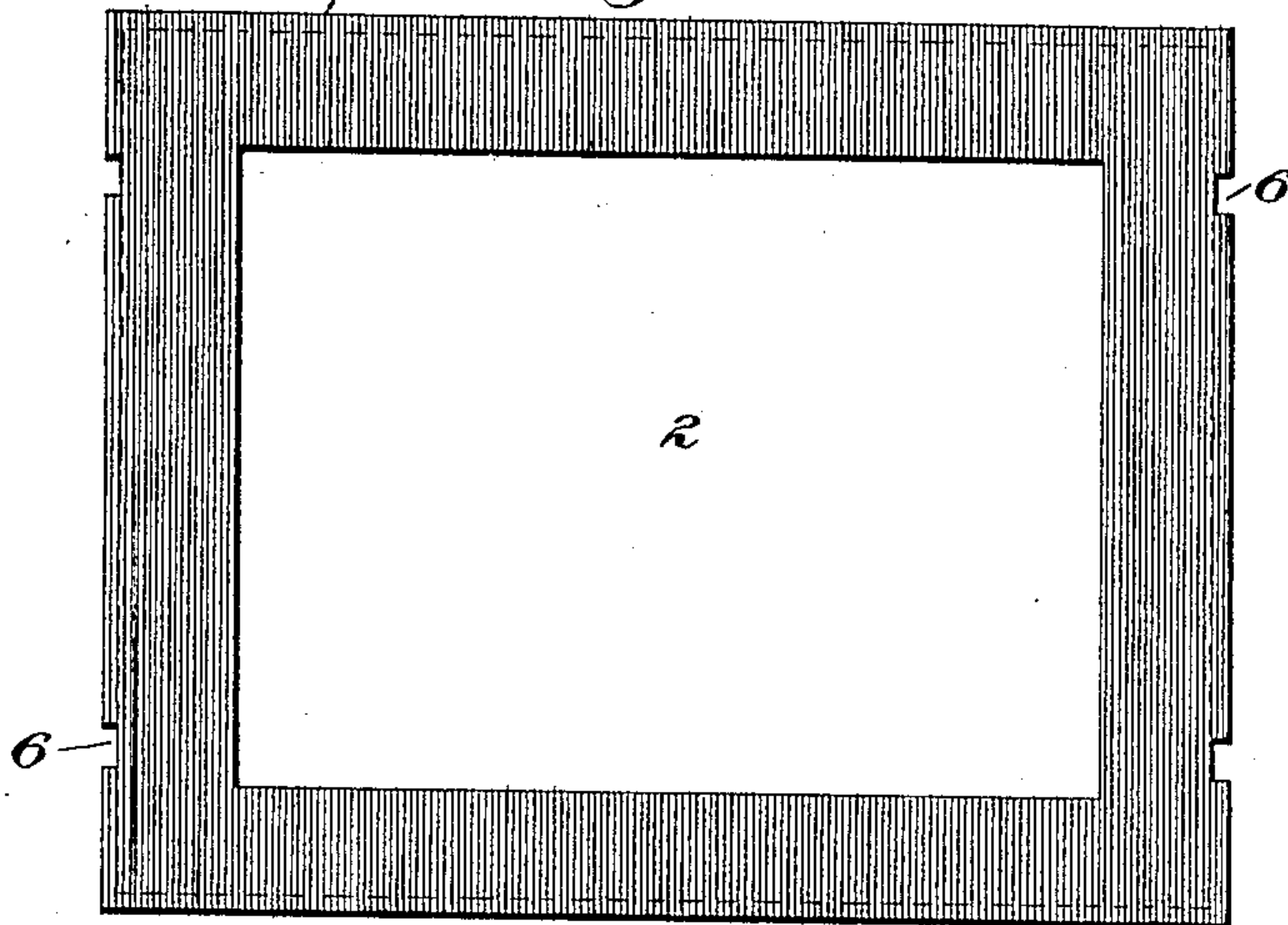


Fig. 4.

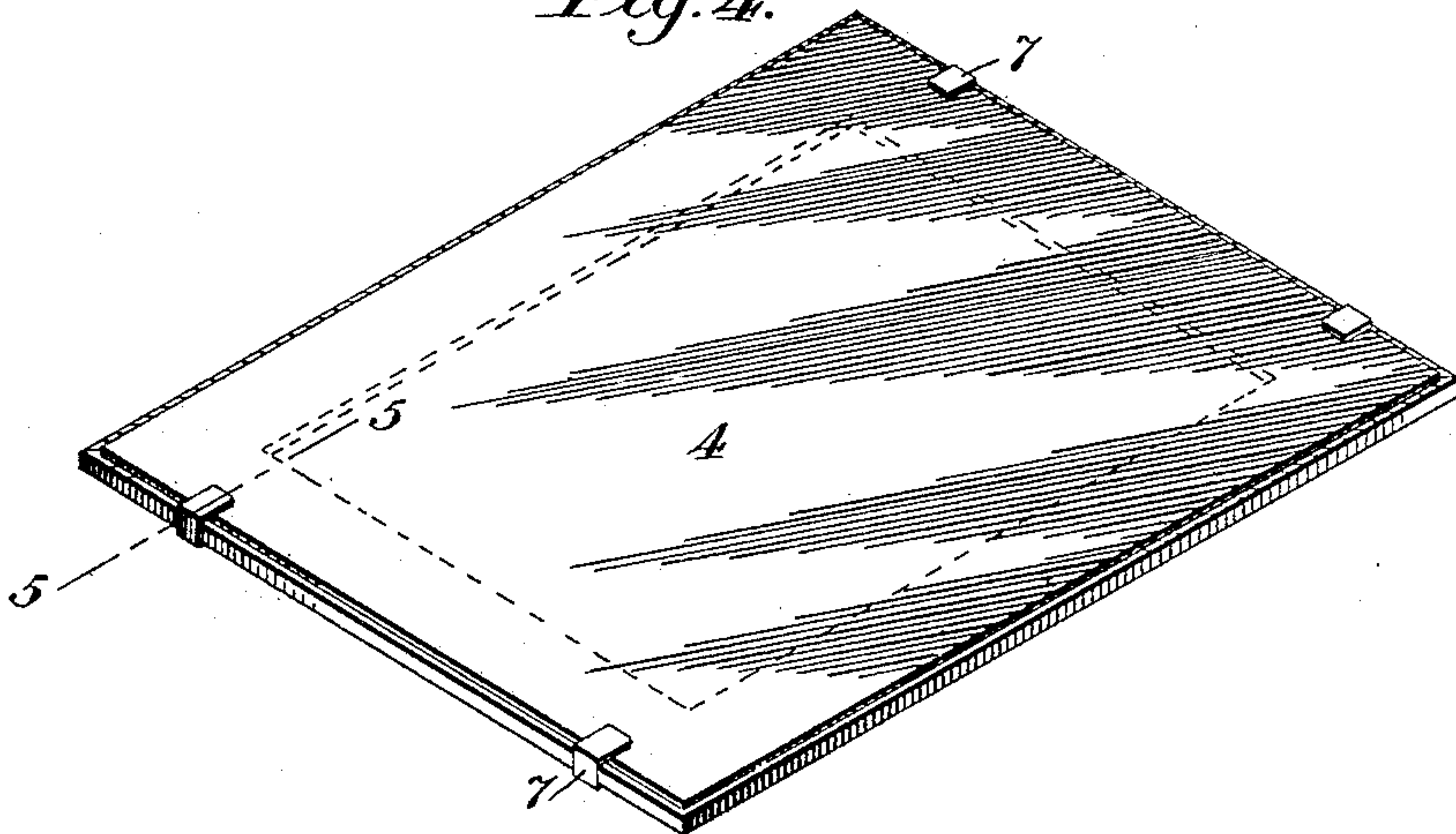


Fig. 5.



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UNITED STATES PATENT OFFICE.

HARRY E. BAER, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO
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FILM-SUPPORT.

No. 817,614.

Specification of Letters Patent.

Patented April 10, 1906.

Application filed November 2, 1905. Serial No 285,659.

To all whom it may concern:

Be it known that I, HARRY E. BAER, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Film-Supports, of which the following is a specification.

This invention is a supporting device for flexible sensitive films for photographic use.

The object of the invention is to provide a device which shall be light, durable, and inexpensive and which shall be capable of serving either as a support for a single film during all operations connected with exposure and development or as a support for sections of a continuous film during development and the subsequent treatment.

For a full understanding of the invention reference is made to the accompanying drawings, wherein—

Figure 1 is a face view of the film-support, the position of the film being indicated by dotted lines. Fig. 2 is a perspective view of the support, showing the film attached thereto. Fig. 3 is a face view of a slightly-modified form of support. Fig. 4 is a perspective view of the form shown in Fig. 2, showing the film attached thereto; and Fig. 5 is a section on line 5 5 of Fig. 4.

Referring to Figs. 1 and 2, 1 represents a light-frame having upper and lower plane surfaces and formed without projecting parts which would interfere with its use in any position in a plate-holder of ordinary construction. This frame is apertured, as shown at 2, in order to permit examination of the film by transmitted light. The aperture 2 may be of any desired size or shape, it being desirable that as much of the film should be exposed as is practicable. Small marginal apertures 3 3, (shown as four in number,) located adjacent to the corners of the central aperture 2, serve for the attachment of the film 4. This may be conveniently effected by the use of ordinary paper fasteners 5 5, as illustrated in Fig. 2.

In the form shown in Figs. 3 to 5 the support 1, apertured at 2, is provided with marginal notches or apertures 6 6 of suitable size to receive the small clips 7 7. It will be understood that the marginal notches may be omitted in case the support is to be used in relations in which the minute marginal projection due to the thickness of the metal of the

clips 7 would be unobjectionable. For instance, the support without the marginal notches is entirely suitable for use in plate-holders in certain positions and for all operations connected with development.

Since the support is substantially free from marginal projections, it is adapted for use in an ordinary plate-holder for supporting a single film before, during, and after exposure in the camera. The film is thereafter developed, fixed, washed, and dried without removing it from the support. When films are exposed in rolls which are afterward cut into sections, the sections are mounted as above for development and the subsequent operations, including drying.

The support should be of a material or should have its surface covered by or impregnated with a material which is unaffected either by the alkaline or acid baths in ordinary use. I prefer to construct the support of cardboard or similar material, coated or impregnated with an alkali and acid proof substance, preferably the waterproof paint known to the trade as "R. I. W." Other materials, as paraffin or a solution of celluloid or nitrocellulose, may be used. Cardboard treated in this manner possesses the advantages of lightness, cheapness, and durability, and is, moreover, sufficiently yielding to avoid any tearing of the film during the operation of drying. It will be noted that the fastening devices are of such character as to hold the film positively and insure its drying without rolling or buckling.

I claim—

1. A film-support comprising an apertured frame adapted for insertion in a photographic holder, said frame having plane upper and lower surfaces and consisting of a material which is inert toward photographic baths, and means for detachably securing a film upon one of said surfaces, substantially as described.

2. A film-support comprising a frame adapted for insertion in a photographic holder, said frame having plane upper and lower surfaces, a central aperture, a plurality of marginal apertures, and means received by said marginal apertures for detachably securing a film upon one of said surfaces, substantially as described.

3. A film-support comprising an apertured frame adapted for insertion in a photographic

holder, said frame having plane upper and lower surfaces and consisting of an absorbent material coated with a substance which is resistant to acids and alkalies, and means for
5 detachably securing a film upon one of said surfaces, substantially as described.

4. A film-support comprising an apertured frame adapted for insertion in a photographic holder, said frame having plane upper and
10 lower surfaces and consisting of cardboard coated with a substance which is resistant to acids and alkalies, and means for detachably securing a film upon one of said surfaces, substantially as described.

5. In combination, a film-support comprising a frame having plane upper and lower surfaces and having a central aperture and a plurality of marginal apertures, a film arranged on said support and fastening devices for said film in said marginal apertures,
20 substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

HARRY E. BAER.

Witnesses:

ROBT. M. WHITESELL,
S. J. BINSWAUGER.