A. A. RUTTAN.

CUT FILM HOLDER.

APPLICATION FILED FEB. 7, 1918.

1,270,330.

Patented June 25, 1918.

Fig. 1

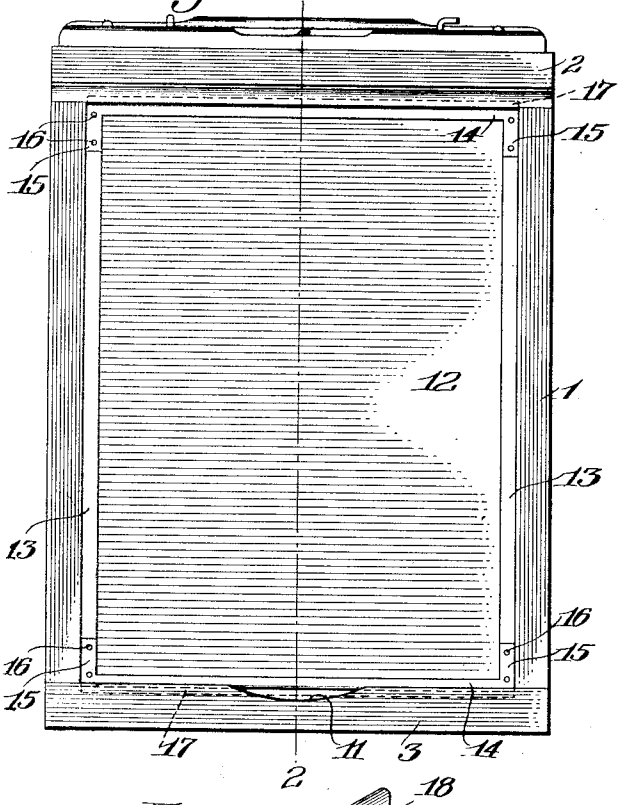


Fig. 2

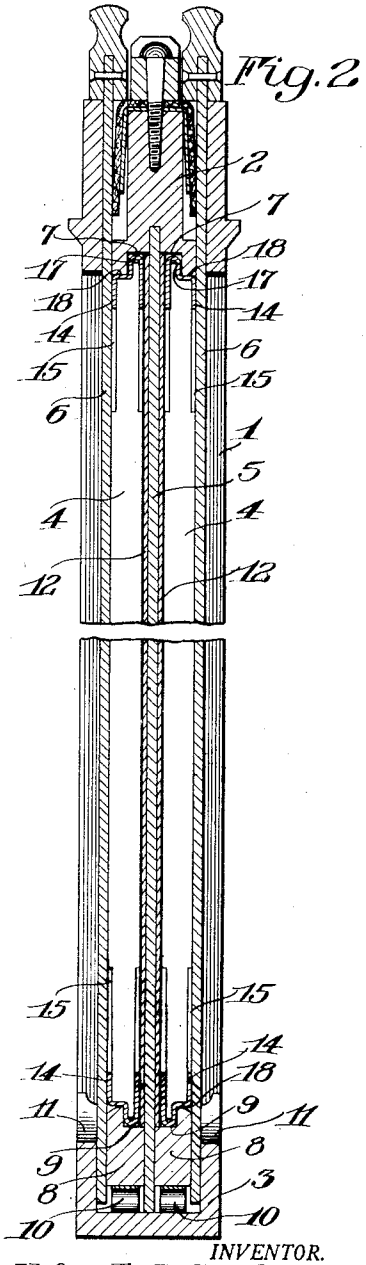


Fig. 3

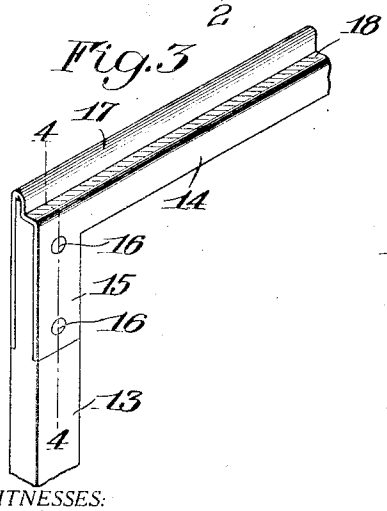
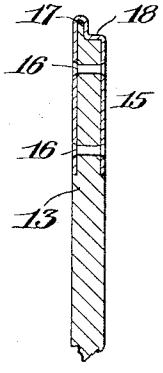


Fig. 4



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CUT-FILM HOLDER.

1,270,330. Specification of Letters Patent. Patented June 25, 1918.

Application filed February 7, 1918. Serial No. 215,763.

To all whom it may concern:

Be it known that I, ALFRED A. RUTTAN, of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Cut-Film Holders; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the reference-numerals marked thereon.

My present invention relates to photography and more particularly to photographic plate holders and it has for its object to provide a simple, light and convenient device for retaining sheets of cut film in an ordinary plate holder otherwise adapted for the reception of plates so that either plates or films can, selectively, be exposed therein. To these and other ends the invention resides in certain improvements and combinations of parts all as will be hereinafter more fully described, the novel features being pointed out in the claims at the end of the specification.

In the drawings:

Figure 1 is a front elevation of a plate holder provided with a film holding attachment constructed in accordance with and illustrating one embodiment of my invention;

Fig. 2 is an enlarged central section taken substantially on the line 2—2 of Fig. 1;

Fig. 3 is an enlarged fragmentary perspective view of a corner of the film holding frame, and

Fig. 4 is a section taken substantially on the line 4—4 of Fig. 3.

Similar reference numerals throughout the several views indicate the same parts.

Referring first to the plate holder 1 which, as before stated, may be of the usual type, 2 indicates the top rail thereof and 3 the bottom rail. The particular device illustrated is a double plate holder embodying two dark chambers 4 the back of each of which is constituted by a central partition or septum 5 held by the rails 2 and 3 and each chamber is closed by the usual removable shutter slide 6. The rail 2 is grooved at 7 at the top of each chamber 4 and at the bottom of each of these chambers is a follower block 8 similarly grooved at 9 and pressed upwardly by a spring 10. These grooves are of a width about equal to that of the plate for which the holder is adapted and the spring pressed followers 8 act to clamp the plate within the grooves being depressed or disengaged by pressure of the finger at the cutaway portions 11 in the lower rail 3.

In the practice of my invention, I provide a light but strong frame adapted to be held within the grooves 7 and 9 in much the same manner as the plate and which will lie against the margins of a flexible cut film sheet 12 laid against the backing or partition member 5 and hold it stationary in a flat position. The side rails of this frame are indicated at 13 and I prefer to make them of wood rectangular in cross section. The top and bottom rails 14 are of sheet metal strips doubled upon themselves in the manner of a channel iron or molding. At their ends they embrace the adjacent ends of the side rails 13, as shown in Figs. 3 and 4, and preferably have angular extensions 15 at these points set into the wooden strips 13 and riveted together at 16 to make a strong connection. The rails 14 are further formed with longitudinal ribs 17 set over in continuation of their rear film contacting faces and adjacent to them are forward shoulders 18. The ribs are of a thickness approximating that of the glass plate for which the holder is adapted, less the thickness of the cut films 12.

In use, the film 12 is first placed against the back 5 of the dark chamber 4 and the frame is then inserted in the holder against the film by depressing the follower 8 and first slipping the upper rib 17 into the groove 7. The follower 8 is then released so that the lower rib 17 of the frame engages in the groove 9 thereof, the shoulders 18 in each case abutting the members 2 and 8 adjacent to the grooves. The film is thus securely held in a flat condition, the engagement being uniform and continuous throughout its margins.

A retaining frame of the character described masks off very little of the face of the film as it is made light and strong and the provision of the ribs 17 also serves to strengthen the rails 14 which may be made of very light sheet metal.

I claim as my invention:

1. A film retaining frame for photographic plate holders having a rib and an adjacent shoulder on an end rail, said rib

approximating the thickness of a plate and adapted to engage with the plate retaining groove of a plate holder.

2. A film retaining frame for photographic plate holders having its end rails formed of doubled sheet metal in the nature of channels or moldings having ribs approximating the thickness of a plate and adapted to engage with the plate retaining grooves of a plate holder.

3. A film retaining frame for photographic plate holders having its end rails formed of doubled sheet metal in the nature of channels or moldings having ribs approximating the thickness of a plate and adapted to engage with the plate retaining grooves of a plate holder, the side rails of the frame being secured between corner extensions on said end rails.

4. The combination with a photographic plate holder having a back, an end rail provided with a plate retaining groove and an opposed spring pressed follower provided with a plate retaining groove, of a detachable frame adapted to hold a cut film sheet against the back, the end rails of the frame being provided with ribs and with adjacent shoulders, said ribs being adapted to fit within the plate retaining grooves of the holder in the manner of a plate.

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