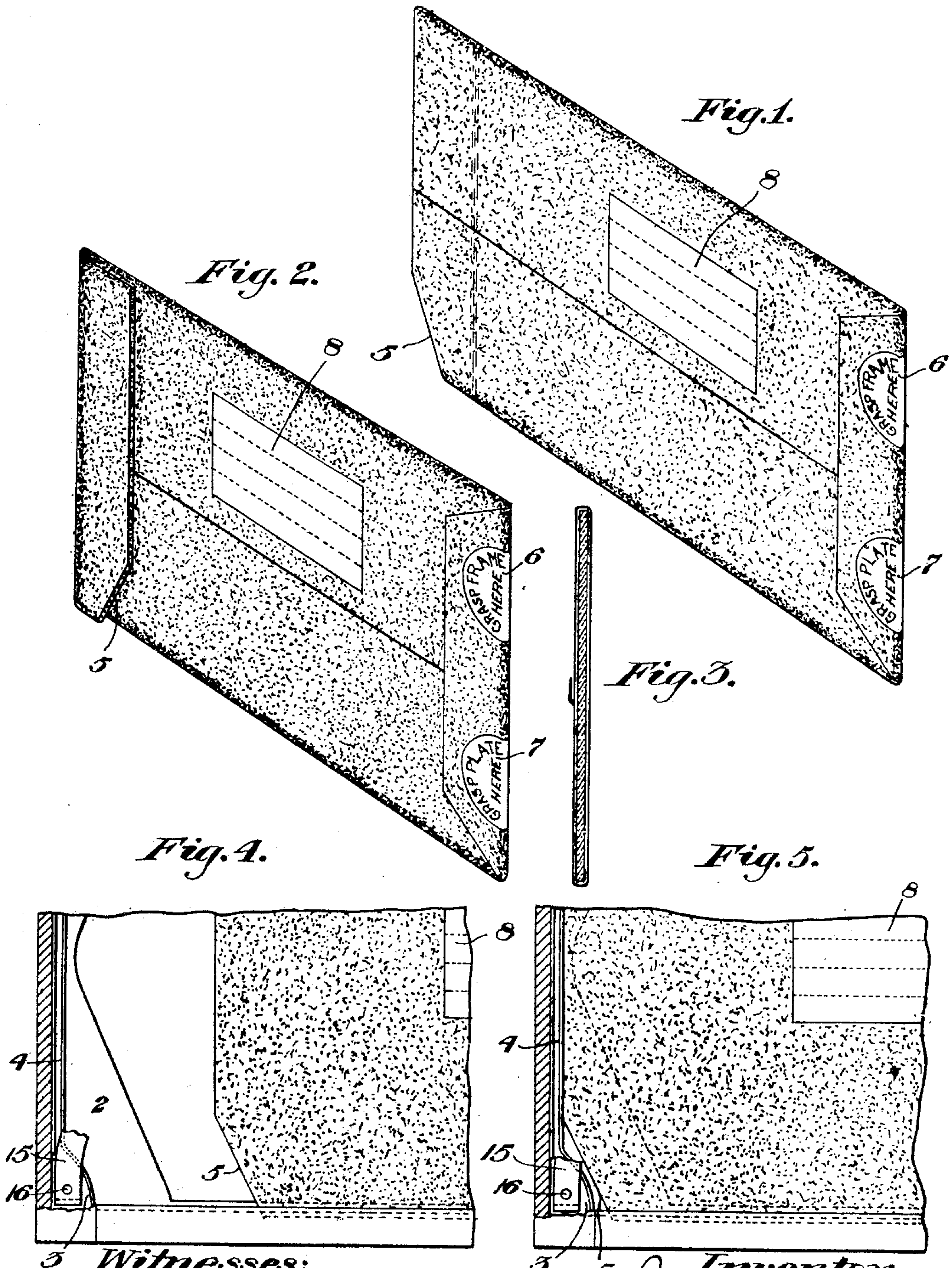


No. 799,572.

PATENTED SEPT. 12, 1905.

J. D. LYON.
ENVELOP FOR PHOTOGRAPHIC PLATES.
APPLICATION FILED NOV. 1, 1904.



Witnesses:
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UNITED STATES PATENT OFFICE.

JESSE D. LYON, OF PITTSBURG, PENNSYLVANIA.

ENVELOP FOR PHOTOGRAPHIC PLATES.

No. 799,572.

Specification of Letters Patent.

Patented Sept. 12, 1905.

Application filed November 1, 1904. Serial No. 230,917.

To all whom it may concern:

Be it known that I, JESSE D. LYON, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Envelops for Photographic Plates, of which the following is a specification, reference being had therein to the accompanying drawings, forming part of the specification, in which—

Figure 1 is a perspective view of my improved envelop for photographic plates with the end flap extended. Fig. 2 is a similar view showing the flap turned around in sealing position. Fig. 3 is a vertical cross-section on the line III III of Fig. 2. Fig. 4 is a partial sectional view of the plate-holder adapted to receive and with which my plate and improved envelop is adapted to cooperate, showing the envelop advancing inwardly toward the back of the holder. Fig. 5 is a similar view showing the envelop inserted clear into the position for grasping the plate.

My invention refers to improvements in light-proof envelops for photographic plates, and is particularly designed and adapted to be used for the protection of the photographic plates to be used in my improved photographic plate-holder, for which on July 16, 1904, I filed an application for Letters Patent bearing the Serial No. 216,806. An essential necessity of that form of holder, in which the plate is introduced, together with a surrounding light-proof envelop positively grasped and the envelop withdrawn for making an exposure, the envelop then being returned and withdrawn with the plate, is that the envelop shall extend entirely beyond the inner edge of the plate sufficiently far to entirely prevent the entrance of light, and in order to successfully accomplish such an object it is necessary that the edges of the envelop shall closely interfit and cover those portions of the plate-holder shell or shifting-frame with which it comes in contact, so as to entirely exclude the light or any actinic rays. In the holder above referred to I employ a plate-shifter of thin sheet metal adapted to engage the edges of the plate with sufficient pressure to shift it back and forward with relation to its envelop and also a stationary receiving-shell of thin sheet metal secured to the back end of the holder in any suitable manner, with which the plate-shifter cooperates.

In the accompanying drawings, 2 represents

a portion of a shifting-shell adapted to travel inwardly and outwardly with the envelop embracing the relatively movable plate-shifter, (not shown,) which is actuated by lever 15, pivoted at 16, as shown and described in the former application. As the pivoted bearing for lever 15 is necessarily mounted within the interior of the plate-holder and as it is desirable to cause the shell 2, and likewise the inner edge of the envelop, to extend as far back as possible, it is necessary to cut off one corner of the shell 2, as indicated at 3, in order to provide clearance for the pivoted bearing. This shell is preferably provided with an upwardly-turned edge 4, against which the edge of the envelop abuts, as clearly shown in Fig. 5.

The envelop is originally creased across its front and, as clearly shown, to provide for easily turning the light-excluding flap. In order to closely interfit with the cut-out inwardly-extending flange 4 at the corner 3, it becomes necessary to cut off the lower edge of the envelop by a curved or bias cut 5, as clearly shown in the drawings, and this feature of the envelop constitutes a valuable and necessary provision in order to insure successful operation with my plate-holder or with any other one in which it becomes necessary to make the light-excluding contact described. In my latest form of apparatus the frame 2 also projects outwardly at the front of the holder and is provided with a portion which is always located at a definite part of the envelop when inserted, and for the purpose of indicating such position, so that the frame may be grasped between the thumb and finger, I have provided a colored or otherwise indicated portion of the closed end of the envelop, (indicated by the numeral 6.) Another portion of the envelop, 7, indicates the position for grasping the plate only to withdraw it and the envelop from the holder after exposure, and these portions 6 and 7 are preferably appropriately inscribed with any indicating words or devices—as, for instance, "Grasp frame" and "Grasp plate"—to indicate to the operator at what point to take hold of the envelop for the different operations. I also prefer to provide a panel or tablet 8, made in any suitable manner, as by attaching white or other paper for the purpose of writing any desired inscription—as, for instance, the title of the subject, place, date, &c.—so as to identify the subject-matter of the plate contained in each particular envelop.

It will be understood that these envelopes are made of black paper or paper otherwise treated in order to be absolutely light-proof, and while such a surrounding envelop generally is not particularly new the particular features which I have indicated are not found in any previous envelop and are essentially necessary and valuable for successful operation and manipulation with my improved holder. The envelop may also be made in two or more layers of different paper or material to insure opaqueness.

I do not desire to be limited to the exact location of the bias cut or to the shape or size of it, nor to the other specific elements described, since it will be understood that these may be changed and varied within the province of the skilled workman or operator, and all such changes and variations are to be considered as within the scope of the following claims.

What I claim is—

1. A light-excluding envelop adapted to re-

ceive a photographic plate, having one corner of its open end cut away in the manner and for the purpose described, substantially as set forth.

2. A light-excluding envelop adapted to receive a photographic plate, provided with a creased extremity adapted to be bent over the plate, and having one corner of its open end cut away in the manner and for the purpose described, substantially as set forth.

3. A light-excluding envelop adapted to receive a photographic plate, provided with a creased extremity adapted to be bent over the plate and having one corner of its open end cut away, and provided with indicating inscriptions at its closed end, substantially as set forth.

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

JESSE D. LYON.

Witnesses:

JAS. J. McAFEE,
C. M. CLARKE.