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O. N. MOORE.

DAYLIGHT HOLDING ENVELOP FOR PHOTOGRAPHIC PLATES.

APPLICATION FILED SEPT. 30, 1907.

915,988. Patented Mar. 23, 1909.

Fig. 1.

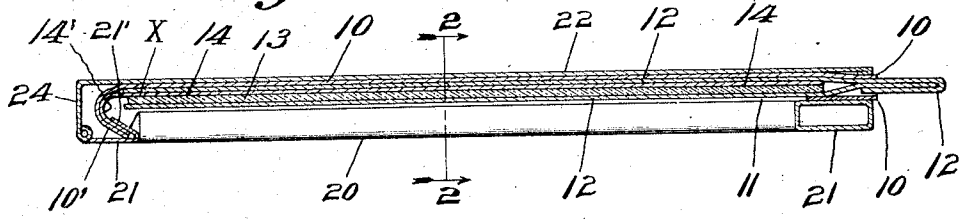


Fig. 2.

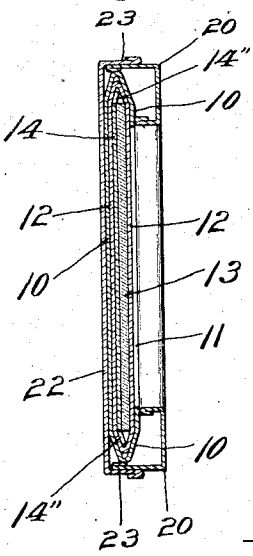


Fig. 3.

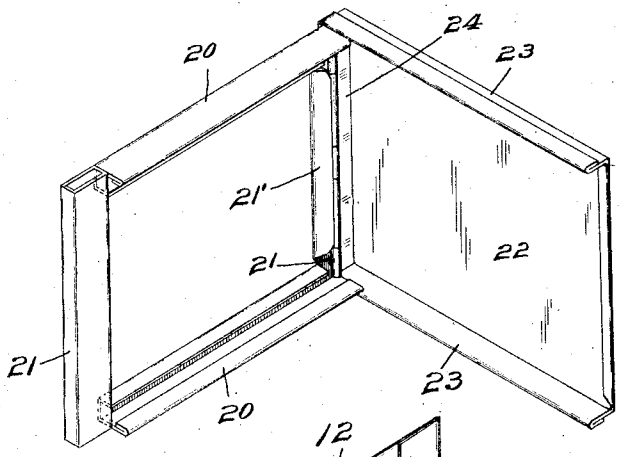


Fig. 4.

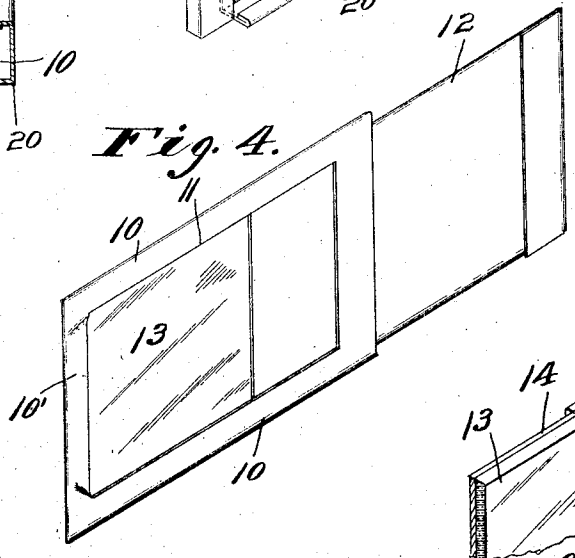
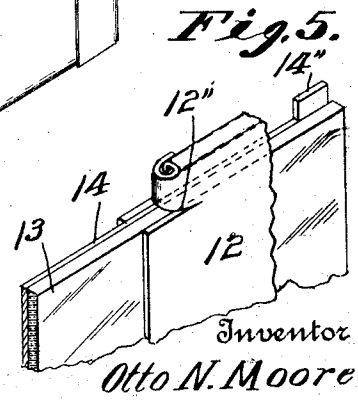


Fig. 5.



Witnesses
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UNITED STATES PATENT OFFICE.

OTTO N. MOORE, OF INDIANAPOLIS, INDIANA, ASSIGNOR OF ONE-HALF TO MILTON M. MOORE, OF ALAMEDA COUNTY, CALIFORNIA.

DAYLIGHT HOLDING-ENVELOP FOR PHOTOGRAPHIC PLATES.

No. 915,988. Specification of Letters Patent. Patented March 23, 1909.

Application filed September 30, 1907. Serial No. 395,086.

To all whom it may concern:

Be it known that I, OTTO N. MOORE, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Daylight Holding-Envelops for Photographic Plates, of which the following is a specification.

The object of my invention is to produce a plate holding package, or envelop, and a corresponding holder to apply to a camera, by means of which ordinary photographic plates may be incased in the envelops at the factory and thereafter used without the preliminary "loading" in a dark room.

The accompanying drawings illustrate my invention.

Figure 1 is a longitudinal section of my improved envelop and coöperating holder, the paper of the envelop being slightly exaggerated in thickness; Fig. 2 a section on line 2—2 of Fig. 1; Fig. 3 a perspective view of the holder; Fig. 4 a perspective view of the envelop and incased plate, with the inner envelop partly withdrawn, and Fig. 5 a detail of the inner end of the inner envelop and the outer end of the incased plate and holding sheet.

In the drawings 10 indicates a paper envelop open at one end only but having in one face a sight opening 11. Fitting within the envelop 10 is a second envelop 12 which is also open at one end only. The inner envelop 12, in width, is greater than the width of the plate 13 and is also greater in length than said plate and envelop 10. The plate 13, at its inner end, for a short distance, as at X, is glued or otherwise secured to a sheet 14 which, in length is somewhat greater than the length of plate 13, so as to extend beyond the inner end of said plate, and this extended end 14′ is turned backward partially over the adjacent end of plate 13 and mated with the portion 10′ of envelop 10 immediately adjacent the inner end of the said opening 11, the two portions 10′ and 14′ (preferably glued together) being deflected somewhat out of the general plane of the envelop 10 to facilitate the reception of the lip 21 of the holder, to be hereafter described. At its outer end sheet 14 is widened so as to produce, at each edge of plate 13 at its outer end, a projecting finger 14″ which, in length, is substantially equal to one-half the excess of width of envelop 10 over plate 13. The two faces of envelop 10, at each inner corner are cut parallel with the edge, as at 12″ (see Fig. 5). In assembling the parts plate 13 is attached at its inner end to sheet 14 at X, and envelop 12 is slipped over said plate and sheet. Thereupon the tongues formed by the cuts 12″ are doubled back upon the body of the envelop and glued in position so that envelop 12 cannot be entirely withdrawn accidentally from the plate, the fingers 14″ being engaged by the said doubled-back tongues. After the plate 13 and sheet 14 have been slipped into envelop 12 the parts are inserted into the open end of envelop 10 and tongue 14′ of sheet 14 brought into conjunction with the portion 10′ of envelop 10. I prefer to permanently secure these two portions together so as to prevent withdrawal of plate 13 from envelop 10 except upon destroying the envelop, but this need not necessarily be done.

The envelop thus far described forms a perfect protection for the plate 13 and in order to use it in connection with a camera I have provided the special holder which I will now proceed to describe. Said holder comprises a frame consisting of the two sides 20, 20, and the two ends 21, 21 which thus form a frame having a sight opening corresponding in size to the sight opening 11 of envelop 10. One of the end bars 21 is provided with an inturned lip or hook 21′ which is adapted to pass inside the portions 10′, 14′ of the plate-protecting envelop, as clearly shown in Fig. 1. Hinged to the frame 20—21 is a cover member comprising a main plate 22, side lips 23, 23 which are adapted to pass over and incase the side bars 20, 20, and an end 24 connecting the two side lips 23, 23 at one end, the construction being such as to incase the plate and its protecting envelop when placed in the position shown in Figs. 1 and 2.

In operation the frame member of the holder is placed in the camera immediately back of the ground glass so that the ground glass can be seen through its sight opening, and the cover member is thrown back upon its hinge. The plate-protecting envelop is then placed in the holder with its portions 10′—14′ hooked in behind the lip 21′ of the holder and the envelops lying between the protecting side bars 20, 20. Thereupon the cover member 22—23, is closed down over the plate-carrying envelops as is clearly shown in Fig. 1. The holder is held in the

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camera against displacement by the ordinary means and in order to expose the plate the operator has merely to grasp the projecting closed end of the envelop 12 and draw the same outward as indicated in Fig. 4, too great a withdrawal of said envelop 12 being prevented by the over-turned lip portions 12'' coming into engagement with the fingers 14'' of sheet 14. After exposure envelop 12 is returned to normal position inside of envelop 10, the cover member 22—23 swung back and the exposed plate with its protecting envelops withdrawn. The protecting envelops can be made of comparatively thin paper, and the combined plate and its protecting envelops will take up but little more room than the plate alone, so that an operator may carry a very considerable number of plates in their permanent envelops, without inconvenience.

I claim as my invention:

1. As an article of manufacture, an inclosing envelop for an inclosed photographic plate having an open end and a sight opening at the film side of said plate, a second envelop inclosing the plate within the first envelop and longitudinally movable from the open end of the first envelop and relative to said plate, means for preventing dissociation of the inner envelop from the outer envelop and the plate, and means for holding the plate against accidental withdrawal in the outer envelop.

2. As an article of manufacture, a photographic unit comprising an envelop having one open end and a sight opening in one face, means arranged within the said envelop to which a photographic plate may be attached, a second envelop having an open end telescoped into the open end of the first envelop and longitudinally movable relative thereto and adapted to incase the photographic plate, and means for preventing excessive withdrawal of the second envelop from the first.

3. As an article of manufacture, a photographic unit comprising an external envelop having one open end and a sight opening in one face, means arranged within the said envelop to which a photographic plate may be attached, a second envelop having an open end inserted into the open end of the outer envelop and longitudinally movable therethrough and adapted to incase the photographic plate, and means for preventing excessive withdrawal of the inner envelop from the outer.

4. As an article of manufacture, a photographic unit comprising an outer envelop having an open end and a sight opening in one face, a plate-holding sheet arranged within said envelop and having one end doubled back to coöperate with a portion of the outer envelop at that end of the sight opening opposite the open end of the envelop and at its other end provided with a laterally extending finger, an inner envelop telescoped within the outer envelop and provided at its inner end with means for engaging the laterally projecting finger to prevent accidental excessive withdrawal of the inner envelop from the outer envelop.

5. As an article of manufacture, a photographic unit comprising an outer envelop having an open end and a sight opening in one face, a plate-holding sheet arranged within said envelop and having one end doubled back to coöperate with a portion of the outer envelop at that end of the sight opening opposite the open end of the envelop and at its other end provided with a laterally extending finger, and an open ended inner envelop sleeved within the outer envelop, the said inner envelop at a corner of its inner open end being closed so as to engage the laterally projecting finger of the plate-holding sheet to prevent accidental excessive withdrawal of the inner envelop.

6. The combination, with a plate-holding envelop comprising an inclosing envelop for the inclosed photographic plate having a sight opening at the film side of said plate, a second envelop inclosing the plate within the first and longitudinally movable in the first envelop and relative to said plate, and means for preventing dissociation of the inner envelop from the outer envelop and the plate, of a holder adapted to be associated with a camera, said holder having a sight opening, and a hook at one end of said sight opening adapted to enter one end of the sight opening of the envelop and hold the same and the plate against displacement.

7. The combination, with a plate-holding envelop comprising an inclosing envelop for the inclosed photographic plate having a sight opening at the film side of said plate, a second envelop inclosing the plate within the first envelop and longitudinally movable in the first envelop and relative to said plate, means for preventing dissociation of the inner envelop from the outer envelop and the plate, and means for holding the plate against accidental withdrawal in the outer envelop, of a holder adapted to be associated with a camera, said holder having a sight opening, and a hook at one end of said sight opening adapted to enter one end of the sight opening of the envelop and hold the same and the plate against displacement.

8. The combination, with a plate-holding envelop comprising an envelop having one open end and a sight opening in one face, means arranged within the said envelop to which a photographic plate may be attached, a second envelop having an open end telescopically associated with the first envelop and longitudinally movable relative thereto and adapted to incase the photographic plate and means for preventing excessive

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withdrawal of the inner envelop from the outer, of a holder adapted to be associated with a camera, said holder having a sight opening, and a hook at one end of said sight opening adapted to enter one end of the sight opening of the envelop and hold the same and the plate against displacement.

9. The combination, with a plate-holding envelop comprising an external envelop having one open end and a sight opening in one face, means arranged within the said envelop to which a photographic plate may be attached, a second envelop having an open end inserted into the open end of the outer envelop and longitudinally movable therethrough and adapted to incase the photographic plate, and means for preventing excessive withdrawal of the inner envelop from the outer, of a holder adapted to be associated with a camera, said holder having a sight opening, and a hook at one end of said sight opening adapted to enter one end of the sight opening of the envelop and hold the same and the plate against displacement.

10. The combination, with a plate-holding envelop comprising an outer envelop having an open end and a sight opening in one face, a plate-holding sheet arranged within said envelop and having one end doubled back to coöperate with a portion of the outer envelop at that end of the sight opening opposite the open end of the envelop and at its other end provided with a laterally extending finger, and an inner envelop telescoped within the outer envelop and provided at its inner end with means for engaging the laterally projecting finger to prevent accidental excessive withdrawal of the inner envelop from the outer envelop, of a holder adapted to be associated with a camera, said holder having a sight opening, and a hook at one end of said sight opening adapted to enter one end of the sight opening of the envelop and hold the same and the plate against displacement.

11. The combination, with a plate-holding envelop comprising an outer envelop having an open end and a sight opening in one face, a plate-holding sheet arranged within said envelop and having one end doubled back to coöperate with a portion of the outer envelop at that end of the sight opening opposite the open end of the envelop and at its other end provided with a laterally extending finger, and an open ended inner envelop sleeved within the outer envelop, the inner envelop at a corner of its inner end being closed so as to engage the laterally projecting finger of the plate-holding sheet to prevent accidental excessive withdrawal of the inner envelop, of a holder adapted to be associated with a camera, said holder having a sight opening, and a hook at one end of said sight opening adapted to enter one end of the sight opening of the envelop and hold the same and the plate against displacement.

In witness whereof I, have hereunto set my hand and seal at Chicago, Illinois, this 27th day of September, A. D. one thousand nine hundred and seven.

OTTO N. MOORE. [L. S.]

Witnesses:
JAS. H. COMSTOCK,
WILLARD H. WEAVER.