H. N. OTT AND F. H. BUFTON.

HOLDING MEANS FOR OPAQUE OBJECTS.

APPLICATION FILED NOV. 13, 1919.

1,375,858. **Patented Apr. 26, 1921.**

Fig. 1.

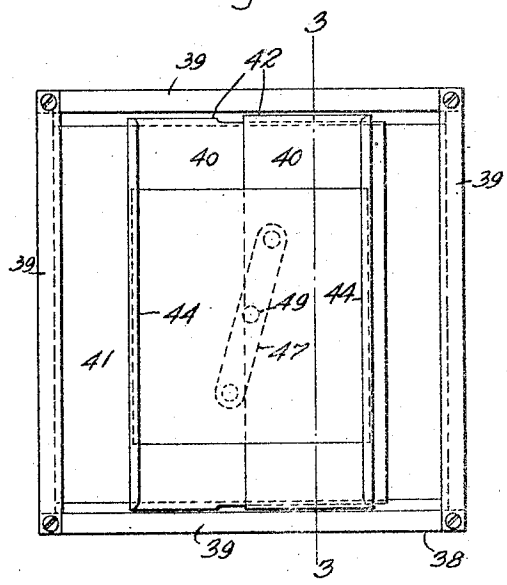


Fig. 2.

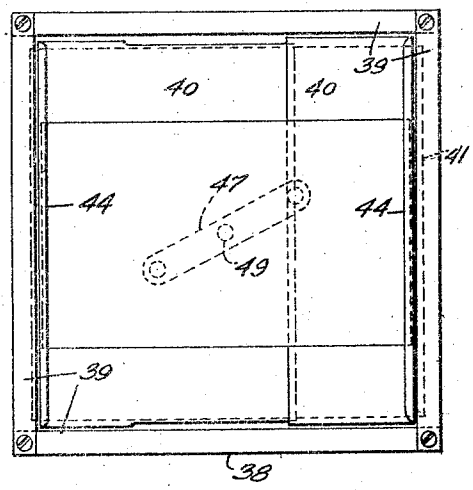


Fig. 4.

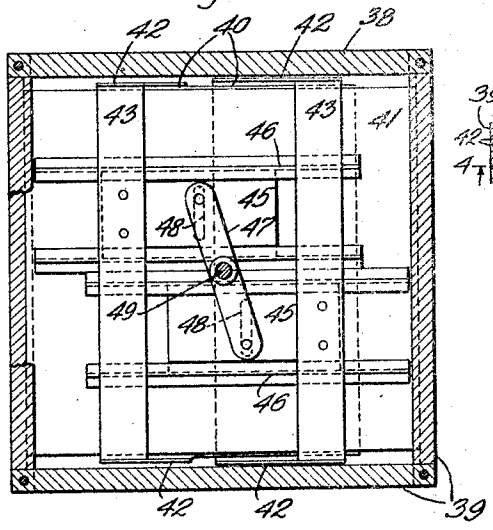
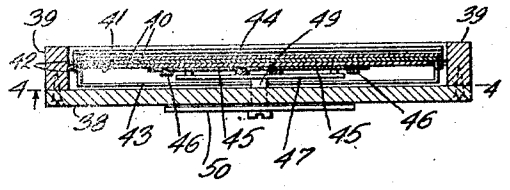


Fig. 3.



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UNITED STATES PATENT OFFICE.

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HOLDING MEANS FOR OPAQUE OBJECTS.

1,375,858. Specification of Letters Patent. **Patented Apr. 26, 1921.**

Original application filed October 31, 1916, Serial No. 128,699. Divided and this application filed November 13, 1919. Serial No. 337,774.

To all whom it may concern:

Be it known that we, HARVEY N. OTT and FRANK H. BUFTON, citizens of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented a new and useful Improvement in Holding Means for Opaque Objects, of which the following is a specification.

This invention relates to holding means or devices such as are used, for instance, in connection with projection apparatus, for holding a postcard or other opaque object, the image of which it may be desired to project.

This application is a division of our application for patent filed Oct. 31, 1916, Serial No. 128,699.

The objects of the invention are to provide improved holding means for the postcards or other opaque objects adapted to hold objects of different sizes and similar objects in different positions; to provide a device of this sort in which the object may be placed and secured with great ease and facility and to improve devices of this sort in the respects hereinafter set forth and claimed.

In the drawings:

Figure 1 is a plan view of a card holder embodying the invention, showing one adjustment of the holding members.

Fig. 2 is a similar view showing a different adjustment of the holding members.

Fig. 3 is a section thereof on line 3—3 Fig. 1.

Fig. 4 is a bottom plan thereof, partly in section on line 4—4 Fig. 3.

The card holder preferably consists of a shallow wooden tray or frame 38 of substantially square shape having upright side walls or flanges 39, and opposite card holding plates or members 40 which are mounted to slide toward and from each other in the tray to fit and hold the card or other flat object. The holding members are mounted to slide toward and from each other on a thin horizontal metal plate 41 which is stationarily secured in the tray, preferably by engaging the edges of the plate in grooves in the opposite walls of the tray. Each of the holding plates or members 40 shown is provided with down-turned ends 42 which are connected by a cross strap 43 extending beneath the supporting plate 41, and the two holding members are provided at opposite outer edges with upwardly extending inturned lips or flanges 44 adapted to engage and hold the opposite edges of the card or other flat object. A slide 45 is connected to the bottom cross strap of each holding member and is arranged to slide in a guideway 46 which extends in the direction of movement of the holding members on the underside of the supporting plate 41. These guide-ways are preferably formed by flanged sheet metal strips secured to the under side of the supporting plate and are arranged parallel with each other side by side, so that the slides can move past each other or overlap in the movements of the holding members toward and from each other. The slides 45 are connected by a lever 47 which has studs or screws at its ends arranged to move in transverse slots 48 in the slides, and is provided between its ends with a journal 49 arranged to turn in a suitable bearing in the bottom of the tray. This lever causes the holding members to move simultaneously in opposite directions to an equal extent so that when the members are adjusted toward and from each other to hold a card, they will retain the same in a central position or equally distant from the opposite ends of the holder. A bar or handle 50 is preferably secured to the outer end of the journal 49 for operating the holding members. The holding members can be moved toward and from each other sufficiently to permit a postcard or analogous object to be held either in a position extending lengthwise or crosswise of the holder, thus enabling pictures whether placed on the cards in one or another position to be properly placed for exposure in the apparatus. The holding members are also thus adapted to be adjusted so as to fit cards or analogous flat objects which differ in size. By arranging the lever as shown, so that in the intermediate position thereof it extends at right angles to the direction of movement of the holding members, the holding members are permitted a movement sufficient to hold a narrow oblong card either by its short ends or long sides. The card or other object can be readily placed in the holder when the latter is removed from the projection apparatus, where it can be readily handled and the card adjusted therein, and after the card is

placed in the holder it is securely retained in position thereon and the holder can be readily inserted into and out of the apparatus for exposing and changing the cards or other opaque objects.

We claim as our invention:

1. A card or object holder for projection apparatus comprising a frame, holding members mounted to slide toward and from each other on said holder frame, a lever having sliding connections with said holding members for causing opposite movements thereof, said lever being arranged to swing across a line extending perpendicular to the line of movement of the holding members toward and from each other, and an operating handle for said lever, said handle projecting from said frame.

2. A card or object holder for projection apparatus comprising a frame, holding members arranged to slide toward and from each other to hold and release the card or object, guides on said frame extending parallel with the direction of movement of said holding members, slides secured to said holding members and arranged to slide in said guides, a lever centrally mounted in said frame and connecting said slides and arranged to swing across a line extending perpendicular to the direction of movement of said slides for causing simultaneous opposite movements of said holding members, and a handle on said lever, whereby actuation of said handle moves said holding members simultaneously.

3. A card or object holder for projection apparatus comprising a frame, holding members arranged to slide toward and from each other in said frame, a pair of downturned ends on each of said holding members, cross members connecting the downturned ends of each of said holding members, a slide member secured to each of said cross members, slideways in said frame for said slide members, and a lever pivoted to said frame and connected at each of its ends to one of said slide members for moving said holding members simultaneously toward or from each other.

4. A card holder or object holder for projection apparatus, comprising a frame, a stationary plate in said frame, holding members arranged to slide toward and from each other on said plate, said holding members having oppositely disposed upturned side flanges and downturned end flanges, a cross strap connecting the downturned ends of each of said holding members, a slide member fixed to each of said cross straps, slideways on the bottom side of said stationary plate for said slide members, transverse slots in each of said slide members, and a lever journaled in the bottom of said frame, studs projecting from the ends of said lever into the slots in said slide members, whereby upon turning movement of said lever said holding members will be moved toward or from each other.

Witness our hands, this 11th day of November, 1919.

HARVEY N. OTT.
FRANK H. BUFTON.

Witnesses:
ISABEL FAIRBURN,
EDWARD E. FROST.