May 30, 1933. R. R. WHITING 1,912,233

PICTURE DISPLAY BOX

Filed Jan. 16, 1931

Fig. 1.

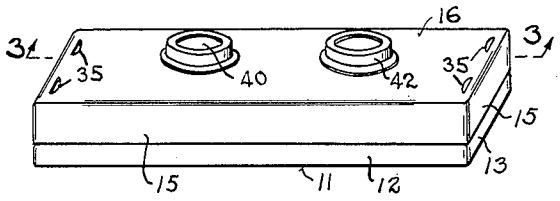


Fig. 2.

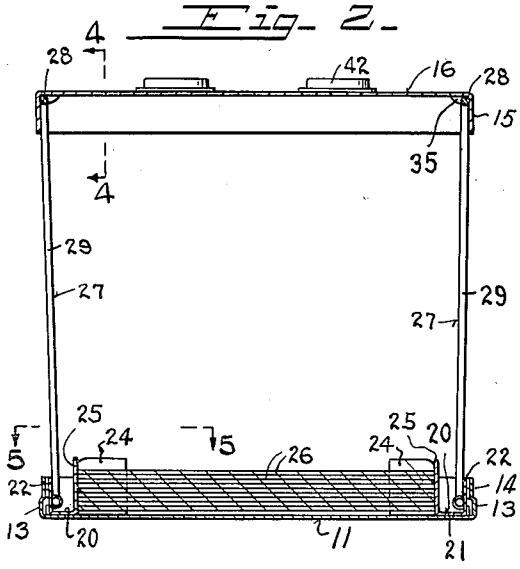


Fig. 3.

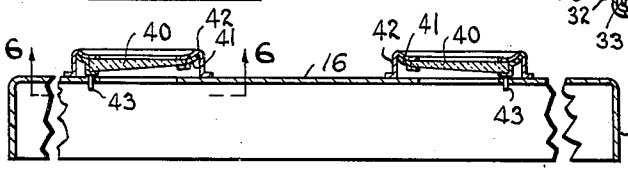


Fig. 4.

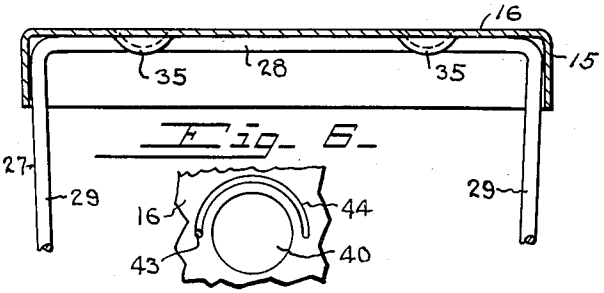


Fig. 5.

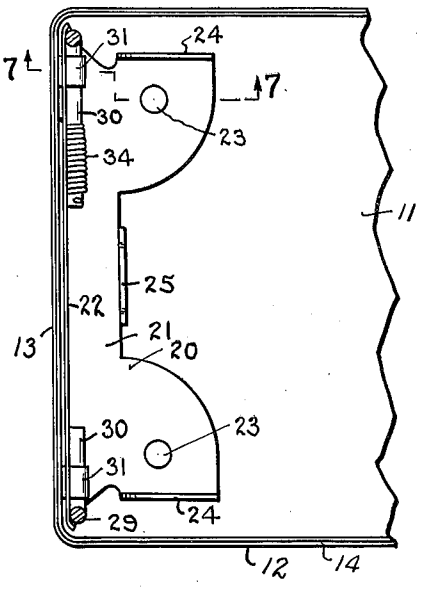


Fig. 6.

Fig. 7.

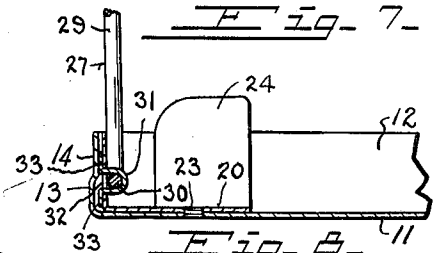
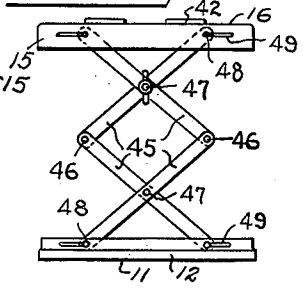


Fig. 8.



INVENTOR.
RICHARD R. WHITING.
BY
H. C. Karel.
ATTORNEY.

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UNITED STATES PATENT OFFICE

RICHARD R. WHITING, OF NORWOOD, OHIO

PICTURE DISPLAY BOX

Application filed January 16, 1931. Serial No. 509,189.

My invention relates to a picture display box which is primarily useful as a stereoscope although the lenses may be so arranged to use the box as a graphoscope or for other purposes.

My device is of compact form, which can easily be carried in the pocket, and readily adjusted to open position whereby pictures can be seen in relief.

The object of my invention is to provide a box wherein a plurality of pictures may be placed, and the cover provided with lenses which can be spaced from the box proper. A further object is to provide the box with guides for the pictures. Another object is to provide the box with foldable arms for supporting the lens plate.

My invention will be further readily understood from the following description and claims, and from the drawing in which latter:

Fig. 1 is a perspective view of my device in closed position.

Fig. 2 is a longitudinal cross-section of the same, in open position.

Fig. 3 is a detail section, taken in the plane of the line 3—3 of Fig. 1, and partly broken away.

Fig. 4 is a detail section taken on the line 4—4 of Fig. 2.

Fig. 5 is an enlarged section, taken in the plane of the line 5—5 of Fig. 2, and partly broken away.

Fig. 6 is a detail view of the lens adjustment taken in the plane of the line 6—6 of Fig. 3.

Fig. 7 is a detail section, taken on the irregular line 7—7 of Fig. 5, and

Fig. 8 is a side view of a modified form.

My device comprises a bottom 11 provided with side members 12 and end members 13. The side and end members are provided with an offset portion 14 arranged to receive the side and end flanges 15 of a cover 16.

Inside and at each end of the bottom compartment of the box is a member 20 having a base portion 21 and an upwardly extending portion 22. The member is suitably secured to the bottom as by rivets 23. The base portion 20 has upwardly extending guide flanges 24 and 25 arranged to form positioning guides for suitable picture display cards 26, which are stacked between the guide flanges. The flanges 24 and 25 may be cut out of the base portion 20 and bent upwardly.

A pair of foldable members 27 formed from a single strand of wire are bent to form a top bar 28 and downwardly extending side bars 29. The ends 30 are bent inwardly and received through clips 31, which act as hinges for the foldable members. The clips 31 are bent about the ends 30 and extend through slots 32 in the portion 22 and have their ends 33 bent back to hold the clips in place. A coil spring 34 has one end attached to the portion 22 and the other end attached to one of the ends of the foldable members, to urge the members into open position. When the box is closed, the members 27 are folded over each other outside of the picture guide flanges. It is obvious that the supporting members may be attached to the cover and extend into the bottom.

When it is desired to use the device, the cover is removed, the foldable members extended upwardly and the cover placed over the top bar 28. The cover has pressed in portions 35 arranged to engage the upper bars of the foldable members for holding the cover in place. The foldable members are pressed or sprung outwardly against the wall 22 whereby upon engagement with the pressed in portion 35 in the cover, a firm construction is secured.

The cover is provided with suitable lenses 40 with their lower faces beveled to blend into one image two pictures of an object from a slightly different point of view, so as to produce upon the eye the impression of relief. The lenses are mounted in holders 41, pressed into guards 42. A pin 43 extends from the holder and through an arcuate slot 44 in the cover, whereby the lens can be moved a half turn thus making a graphoscope for use in displaying pictures other than stereoscopic views.

In Fig. 8 I have shown a modified form of my invention wherein the means for ex-

tending the cover in spaced relation to the base comprises pivoted cross arms 45, which are pivoted together at their extremities as at 46 and at the point of crossing as at 47. The respective ends of the lower and upper arms have pins 48 received in slots 49 in the base and cover. When the box is closed, the arms fold within the box outside of the card holders. One of the articulations 47 is provided with a thumb nut to lock the bars in any desired position.

If desired, the lenses may be mounted on an arm attached to one of the foldable members and arranged to hook over the other member when in open position.

My device provides a simple compact arrangement for a stereoscope and when closed forms a small box which can easily be carried in the pocket of a coat. When using the device as a stereoscope, there are two pictures on the cards placed side by side and the lower tapered face of the lens will blend the pictures into one whereby the impression of seeing the picture in relief is obtained.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. A picture display box comprising a bottom compartment, a cover for said compartment, arms for spacing said cover from said bottom compartment and flanges spaced within said bottom compartment for positioning a stack of cards in said bottom compartment.

2. A picture display box comprising a bottom compartment, a cover for said compartment, lenses mounted in said cover, means for spacing said cover from said bottom compartment, and picture locating means spaced within said bottom for locating a stack of pictures of less area than said bottom compartment.

3. A picture display box comprising a bottom compartment, a cover for said compartment, foldable arms pivoted at the respective ends within said bottom compartment for spacing said cover relative to said bottom compartment, and flanges spaced within said bottom compartment for positioning a plurality of pictures, whereby said arms fold about said pictures when said box is closed.

4. A picture display box comprising a bottom compartment, a cover for said compartment, foldable arms pivoted within said bottom compartment, for spacing said cover relative to said bottom compartment, picture positioning flanges spaced within said bottom compartment permitting said arms to fold thereabout when said box is closed, and lugs on said cover for attaching said cover to said foldable arms.

5. A picture display box comprising a bottom compartment, flanges extending upwardly and spaced from the walls of said compartment for positioning a plurality of pictures in said compartment, a lens supporting plate, and arms pivoted within said bottom compartment for attachment to said lens supporting plate, said arms foldable about said flanges.

6. A picture display box comprising a bottom compartment, flanges extending upwardly and spaced from the walls of said compartment for positioning a plurality of pictures in said compartment, a lens supporting plate, arms pivoted within said bottom compartment and foldable about said flanges for attachment to said lens supporting plate and springs attached to said arms for normally extending said arms.

7. A picture display box comprising a bottom compartment, a frame for positioning a plurality of pictures in said compartment, a lens supporting plate, U-shaped arms pivoted within said bottom compartment and foldable about said frame for attachment to said lens supporting plate and springs attached to said arms for normally extending said arms.

8. A picture display box consisting of a bottom and top compartments provided with spaces for a plurality of pictures, U-shaped arms pivoted within said bottom and arranged to space said top from said bottom and foldable about said pictures when said box is closed.

9. In a picture display box comprising a bottom compartment, a frame for positioning a plurality of pictures in said compartment, a lens supporting plate, U-shaped arms pivoted within said bottom compartment and foldable about said frame for attachment to said lens supporting plate.

10. In a picture display box comprising a bottom compartment, picture positioning means within said bottom compartment providing a channel between said picture positioning means and the walls of said bottom compartment, a lens supporting plate, arms pivoted within said bottom compartment for spacing said lens supporting plate from said bottom compartment and foldable into said channel when said box is closed.

In testimony whereof, I have hereunto signed my name.

RICHARD R. WHITING.