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 PROTECTIVE BINDER FOR CARDBOARD MOUNTED
 PHOTOGRAPHIC TRANSPARENCIES
 Filed March 16, 1956

2,841,903

FIG. 1.

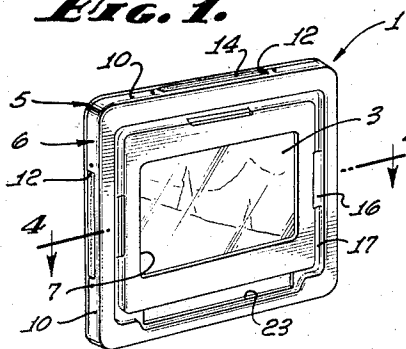


FIG. 2.

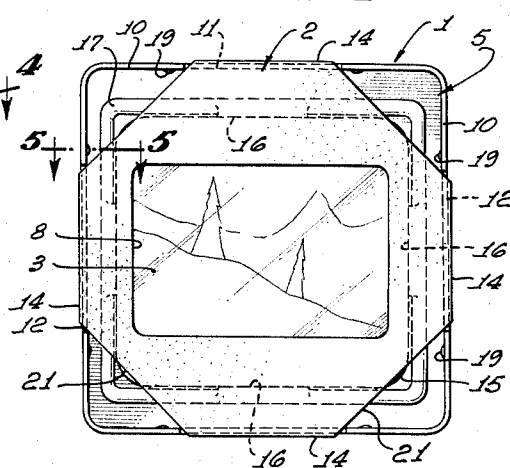


FIG. 3.

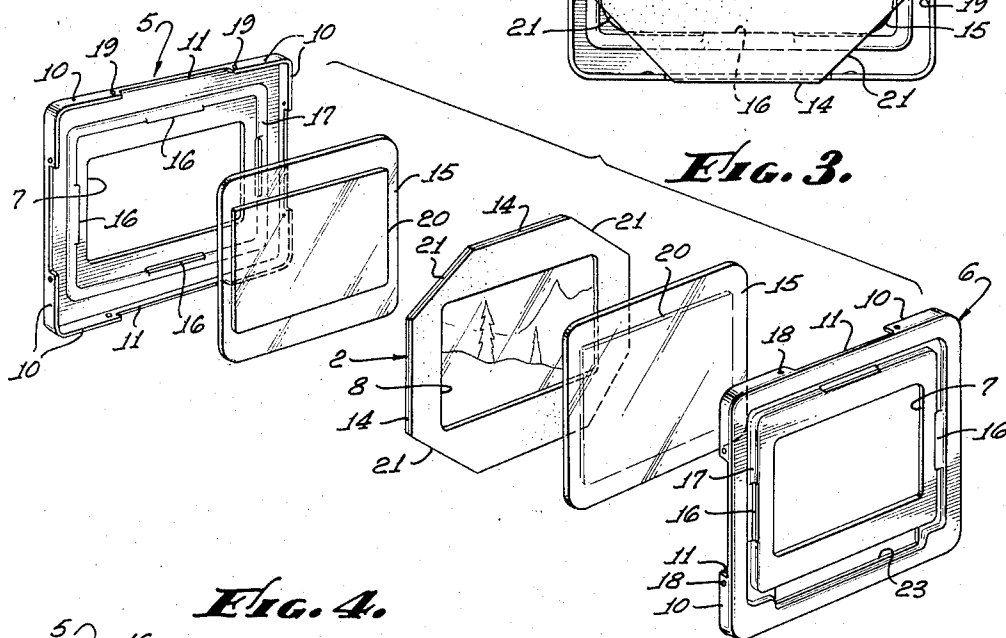


FIG. 4.

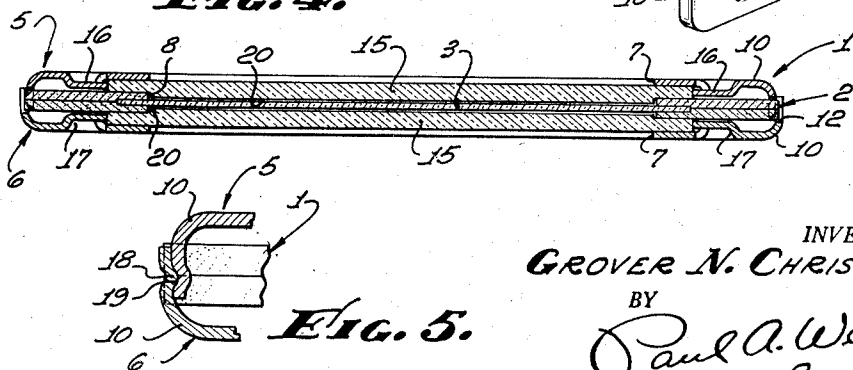
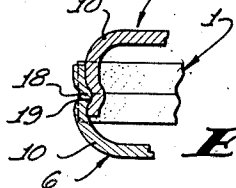


FIG. 5.



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PROTECTIVE BINDER FOR CARDBOARD MOUNTED PHOTOGRAPHIC TRANSPARENCIES

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11 Claims. (Cl. 40—152)

This invention relates to cardboard mounts for photographic transparencies and more particularly to an improved protective holder or binder for such mounts.

Cardboard mounts for films or transparencies as used in viewers and projectors have been standardized as to rectangular dimensions. Protection and preservation of these cardboard mounts and the transparencies therein is desirable. Heretofore such protection has been effected by removing the film or transparency from the cardboard mount and remounting it in a protective holder or binder having the required standard rectangular dimensions.

It is essential that such remounted transparencies be kept to the rectangular dimensions of the standard cardboard mount and that the thickness thereof be kept reasonably close to that of the cardboard mount. It is also essential that care be exercised in removing the transparencies from the cardboard mount and in remounting thereof, to avoid scratching or soiling and assure proper positioning and centering thereof.

Moreover, skill beyond that of the ordinary photographer or user of such mounts is required to remove the film and remount it properly.

It is an object of the present invention to provide a protective binder which may be quickly and easily mounted on a conventional cardboard transparency mount to protect and preserve the transparency and the cardboard mount.

It is another object of the invention to provide a protective binder such as described, which is constructed and dimensioned so that when mounted on a standard rectangular cardboard mount it will not increase the dimensions of the resultant unit an appreciable or objectionable extent beyond those of the cardboard mount.

It is another object of this invention to provide a binder such as described wherein a protective frame engageable with a cardboard mount, embodies means for holding the frame in place with outer edges of the cardboard mount substantially flush with the outer edges of the frame, whereby the rectangular dimensions of the frame are substantially the same as the rectangular dimensions of the cardboard mount.

It is a further object of this invention to provide a binder such as described which when applied to a cardboard mount will not objectionably increase the thickness of the unit.

An additional object of this invention is to provide a binder such as described which may readily and easily be applied to a cardboard mount by unskilled persons without likelihood of damaging the transparency or causing improper positioning thereof.

A further object hereof is to provide a binder such as described which may include a glass or plastic pane or a pair of such panes arranged in a novel manner to cover one or both sides of the transparency to prevent marring or damaging of the transparency.

Another object of this invention is to provide a binder such as described which includes a pair of matching frames having substantially the same rectangular dimen-

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sions as that of a standard cardboard mount and provided with laterally extended outer edge portions or flanges between which outer edge portions of the cardboard mount are disposed in substantially flush relation thereto.

5 A further object is the provision of a binder such as described in which transparent glass or plastic panes are held in place in the two matching frames of the binder in a novel manner such that the binder consists of but two unit parts subject to being easily mounted on a cardboard mount and united to enclose and protect the mount and transparency therein.

10 An additional object herein is the provision of novel means embodied in the matching frames of the binder, for securely locking the binder in place on a cardboard mount.

15 It is an additional object of this invention to provide a binder such as described which when applied to a conventional rectangular cardboard mount having the corners thereof removed, may be quickly and easily secured in place with the rectangular outer edges of the mount disposed in substantially flush relation to the outer edges of the binder, thereby providing in the resultant unit, substantially the same rectangular dimensions as in a standard cardboard mount.

20 This invention possesses many other advantages and has other objects which may be made more easily apparent from a consideration of one embodiment of the invention. For this purpose there is shown a form in the drawings accompanying and forming part of the present specification. This form will now be described in detail, illustrating the general principles of the invention; but it is to be understood that this detailed description is not to be taken in a limiting sense, since the scope of the invention is best defined by the appended claims.

25 Referring to the drawings:

Fig. 1 is a perspective view of a binder embodying the present invention, shown as applied to a cardboard mount;

30 Fig. 2 is an elevational view showing a cardboard mount positioned in one of the two matching frame members of the binder, preparatory to applying the other frame member;

Fig. 3 is an exploded perspective view of the binder as related to a cardboard mount;

35 Fig. 4 is a sectional view on the line 4—4 of Fig. 2 on an enlarged scale; and

Fig. 5 is a fragmentary sectional view taken on the line 5—5 of Fig. 2 on an enlarged scale.

40 As shown in the accompanying drawing, a preferred form of this invention comprises a protective binder or holder 1 adapted to be applied to a conventional cardboard mount 2 having a photographic transparency or film 3 mounted therein.

45 In order that the binder 1 may be incorporated with the mount 2 to protect and preserve the transparency without objectionably increasing the rectangular dimensions of the resultant unit, the corners of the mount are removed.

50 Film processors and developing agencies have standardized these cardboard transparency mounts so that the rectangular dimensions thereof are approximately 2 inches by 2 inches. Usually the rectangular dimensions of these mounts are somewhat under the adopted 2 inch by 2 inch limit, for example 1 and $\frac{15}{16}$ inches by 1 and $\frac{15}{16}$ inches. Accordingly, it will be seen that in making the binder 1 of thin material such as aluminum, and of special construction in consideration of these standardized dimensions, it is possible to apply the binder to such a mount having the corners removed as here shown, without appreciably or objectionably increasing the rectangular dimensions of the resultant unit beyond the standard dimensions of the cardboard mount.

In accordance with this invention, the binder 1 is substantially square and of substantially the same rectangular dimensions as a standard square cardboard mount. Moreover, this binder is constructed and arranged so that when affixed to such a cardboard mount having the corners cut away as here shown, the outer edges of the mount between the cut-away corners will be disposed in substantially flush relation with the other edges of the binder, thereby substantially maintaining the standard dimensions of the cardboard mount while at the same time providing a protective covering for the mount and the transparency.

Referring more specifically to the binder 1, it is seen that it includes a frame or holder formed by a pair of substantially square matching frame members 5 and 6 which correspond approximately in rectangular dimensions to those of a standard cardboard mount, such as the mount 2 here shown, before the corners of the mount are cut off. These matching frame members 5 and 6 may be made of thin metal, for example, aluminum, or may be made of plastic or any other suitable material having the desired durability and rigidity.

As here shown, the frame members 5 and 6 are adapted to be placed against opposite faces of the mount 2 so that viewing openings 7 in the frame members register with the viewing openings 8 in the cardboard mount 2.

Means are embodied in the frame members 5 and 6 to dispose the outer edges of the mount 2 substantially flush with the outer edges of the frames. In the present instance this means comprises integral and laterally extended marginal portions or flanges 10 adjacent the corners of the frame members. This arrangement provides a pair of angularly related integral flanges 10 at each corner of each of the frames 5 and 6, each flange extending but a short distance along the adjacent outer edge of each frame. This provides a recess 11 between the flanges 10 on each edge of each of the frames.

When the frames 5 and 6 are placed against opposite faces of the mount 2, the laterally extended edge portions or flanges 10 thereof overlap one another. As shown in Fig. 4, the recesses 11 then being in registration, define elongated openings or slots 12 in the assembled binder 1. In this connection it should be noted that the frame member 6 has slightly greater rectangular dimensions than the frame member 5, but not appreciably greater than the 2 inch by 2 inch dimension of a standard cardboard mount. This makes it possible to overlap the flanges 10 and also facilitates, in a manner to be hereinafter fully described, the locking of the frame members 5 and 6 in assembled relation on the mount 2.

The elongated openings or slots 12 in the outer margins of the assembled binder 1 are adapted to receive therein the outer edges 14 of the mount 2 so that the edges 14 are substantially flush with the outer surfaces of the flanges 10, or in other words, substantially flush with the outer edges of the frames 5 and 6.

One transparent pane 15, or a pair thereof, may be employed in connection with the frame members 5 and 6 to protect the transparency 3 from being scratched, soiled, or otherwise damaged, such pane or panes being held over the openings 8 in the mount by means of the frame members 5 and 6. These panes may be made of transparent glass or plastic material.

In the present embodiment of the invention a pane 15 is fixed within each of the frames so that in the operation of applying the binder to the mount 2, each of the frames 5 and 6 with a pane 15 therein comprises a unit, thereby making it unnecessary to handle the panes and frames separately.

As here shown, the panes 15 may be fixed to the frames 5 and 6 by means of small binding tongues 16 which are struck out from ribs 17 on inner surfaces of the frames. The rib 17 on each of the frames is continuous and defines a rectangular pocket in which the pane is held. The tongue 16 engages the edges of the pane to hold

the latter in place over the opening 7. The tongues 16, as shown in Fig. 4, will frictionally engage the edges of the pane 15 to securely hold the pane in place upon pressing the pane within the confines of the rib 16. This mounting of the panes in the frames is a function of the manufacturer of the binder so that the binder consists of but two parts requiring handling when it reaches the user.

In the present embodiment of this invention, the flanges 10 on the frames 5 and 6 facilitate the securing or locking of the frames in place on the mount 2, there being small projections 18 and depressions 19 formed in the flanges to interlock when the flanges are overlapped.

The binder of this invention readily lends itself to use of particularly constructed transparent panes, such as shown in my copending application, now abandoned, Serial No. 516,451, entitled, Transparency Mount. The panes 15, as here shown, are of the type shown in said application. These panes have a central raised or offset portion 20 of such size as to fit within the openings 8 of the mount 2 so as to engage or lie in closely spaced relation to the opposed surfaces of the transparency 3. The offset portions 20 of the panes will prevent the transparency 3 from being distorted by the heat from a projection machine.

In applying the binder 1 to the mount 2, the mount with its corners removed, is placed in one of the frames 5 and 6, as shown in Fig. 2, so that the edges 14 thereof will be disposed between the flanges 10. In this connection it should be noted that the corners of the mount 2 are cut away so that the resultant beveled or inclined edges 21 may abut or nearly abut the end edges of the flanges while the outer edges 14 of the mount are disposed between the flanges 10 and in substantially flush relation thereto. This assures that no appreciable relative movement of the binder 1 and the mount may take place. After the mount 2 is placed in one of the frames, the other frame is brought against the mount so that the flanges 10 on the two frames 5 and 6 will overlap and cause the projections 18 and depressions 19 to lock the frames together on the mount, thereby completing the assembling of the binder and mount.

The construction of the binder 1 and the cutting off of the corners of the cardboard mount, make it possible to provide rounded corners on the binder. This is desired, as rounded corners facilitate placement and removal of transparencies in the use thereof in connection with viewers and projectors.

One of the frames 5 and 6 may be provided with an elongated opening 23 adjacent a margin thereof so as to expose a portion of the cardboard mount 2. This exposed space of the mount 2 makes it possible to mark the mount for identifying the subject of the transparency.

With reference to Fig. 4, it will be noted that those portions of the opposed faces of the panes 15 adjacent the margins of the panes, are outwardly spaced from the outer edges of the ribs 17 and tongues 16, whereby said portions of the panes will abut opposed faces of the cardboard mount 2 when the frames 5 and 6 are locked together on the mount. This arrangement prevents the rib 17 and tongues 16 on one frame from abutting the rib 17 and tongues 16 on the other frame and interfering with the locking of the frames together, thereby assuring that the frames may be properly locked on the mount and will not objectionably increase the thickness of the resultant unit.

I claim:

1. A protective binder for a rectangular cardboard mount containing a photographic transparency, wherein the cardboard mount has the corners thereof removed, said binder comprising: a rectangular frame engageable with said mount; said frame having flanges at the corners thereof; said flanges defining therebetween elongated openings for receiving therein substantially flush relation with said flanges the outer edges of said mount; said frame having viewing openings therein for registration

with the viewing openings in said mount; transparent panes carried by said frame for covering the viewing openings in said frame and said mount; said frame having another opening therein through which a portion of the cardboard mount is exposed so that indicia written or printed on said exposed portion is visible through said last named opening when the frame and mount are secured together; and means for holding said frame and mount in assembled relation.

2. A binder for a cardboard mount containing a photographic transparency comprising: a frame engageable with said mount; flanges embracing the outer corners of said frame extending laterally of the frame for receiving therebetween and in substantially flush relation thereto, those portions of outer edges of said mount that are located between the corners of the mount; and means for securing said frame and said mount in assembled relation.

3. A binder for a rectangular cardboard mount containing a photographic transparency, wherein corners of the mount are removed, comprising: a pair of rectangular frame members for engaging opposite faces of said mount; said frame members having substantially the same rectangular dimensions as said mount; said frame members having laterally extended flanges embracing corners thereof for receiving therebetween in substantially flush relation thereto, outer edge portions of said mount; and means on said flanges cooperable for securing said frame members together.

4. A binder for a rectangular cardboard mount containing a transparency, wherein corners of the mount are removed, including: a pair of rectangular frames for engaging opposite sides of said mount; and means on the outer margins of said frames engageable with one another to secure the frames together on said mount; said means defining elongated openings therein between the corners of said frames for reception of outer edges of said mount.

5. A binder for a rectangular cardboard mount containing a transparency wherein corners of the mount are removed, including: a pair of rectangular frames for engaging opposite sides of said mount; flanges extending laterally from the corner portions of said frames adapted to overlap one another upon engaging said frames with said mount; said flanges when overlapped defining therebetween elongated openings along margins of the frames for reception of outer edges of said mount; and means on said flanges cooperable upon the overlapping of said flanges to hold said frames together.

6. A binder for a rectangular cardboard mount containing a transparency wherein corners of the mount are removed, including: a pair of rectangular frames for engaging opposite sides of said mount; a transparent pane in each of said frames for covering the transparency in the mount; and means on the outer margins of said frames engageable with one another to hold the frames together; said frames providing elongated openings along the outer margins thereof for reception of portions of the outer margins of said mount.

7. A binder for a rectangular cardboard mount containing a transparency wherein corners of the mount are removed, including: a pair of rectangular frames for engaging opposite sides of said mount; a transparent pane in each mount for covering the transparency in the mount; tongues on each frame for engaging edges of the associated pane to hold the pane in place; flanges extending laterally from corner portions of said frames adapted to overlap when said frames are engaged with said mount; said flanges when overlapped defining elongated openings

between the corners of said frames for reception of portions of the outer margins of said mount; and means for holding said frames together.

8. In combination: a rectangular cardboard mount in which a photographic transparency is mounted; said mount having its corners removed; a binder on said mount; said binder comprising a rectangular frame having substantially the same rectilinear dimensions as said mount before the corners of the mount are removed; flanges embracing corners of said frame; outer edges of said mount being disposed between and in substantially flush relation with outer surfaces of said flanges; and means for securing said frame and said mount in assembled relation.

9. In combination: a rectangular cardboard mount in which a photographic transparency is mounted; said mount having the corner portions thereof removed; a pair of rectangular frames engaged with opposite faces of said mount; said mount and frame having registering viewing openings; laterally extending flanges at corner portions of said frames overlapping one another; said frames defining elongated openings in the outer edges thereof between said flanges; outer edges of said mount being disposed in said elongated openings in substantially flush relation with the outer edges of said frames and said flanges; and means on said flanges cooperable to hold said frames in engagement with one another with said mount therebetween.

10. A protective binder for a cardboard mount in which a photographic transparency is mounted so as to be visible through viewing openings in the mount; said binder comprising: a pair of frame members each having a viewing opening for registration with the viewing opening in the mount; said frame members being adapted to be placed against opposite faces of said mount; a bead on the inner face of each frame member forming a pocket for reception of a transparent pane; tongues struck from said bead for frictionally engaging edges of said pane to hold said pane in said pocket; and means for securing said frames together with said mount therebetween.

11. A protective binder for a cardboard mount in which a photographic transparency is mounted so as to be visible through viewing openings in the mount; said binder comprising: a pair of frame members each having a viewing opening for registration with the viewing opening in the mount; said frame members being adapted to be placed against opposite faces of said mount; a bead on the inner face of each frame member forming a pocket for reception of a transparent pane; locking tongues struck from said bead for frictionally engaging the edges of said pane to hold said pane in said pocket; flanges on outer edges of said frame members adjacent the corners of said frame members arranged to overlap when said frame members are applied to said mount; said flanges when overlapping defining therebetween elongated openings in the outer edges of the frame member; and means on said flanges cooperable to lock said frame members together with outer edges of said mount disposed in said elongated openings in substantially flush relation with the outer edges of said frame members.

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