Aug. 31, 1954 G. B. WISER 2,687,901

BINDER

Filed June 20, 1949

Fig. 1

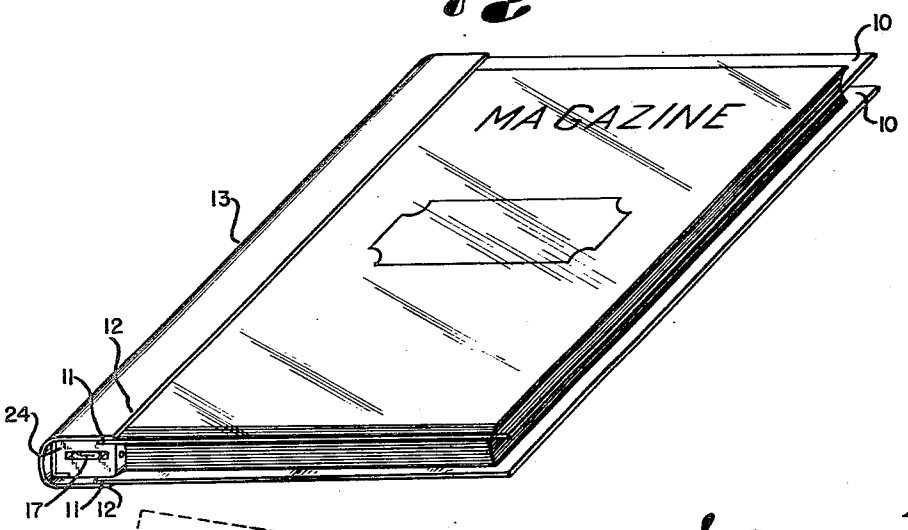


Fig. 2

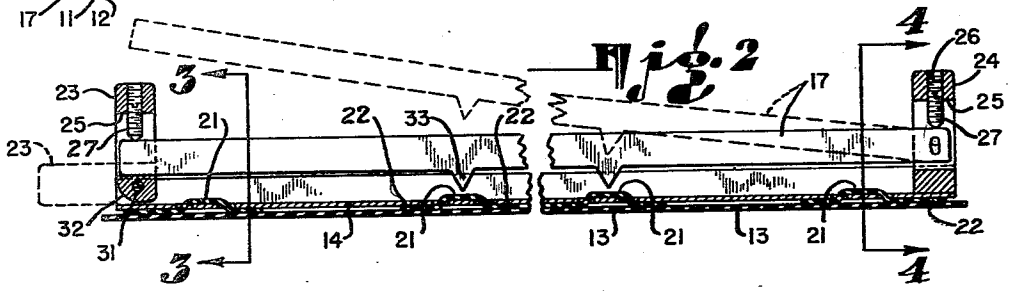
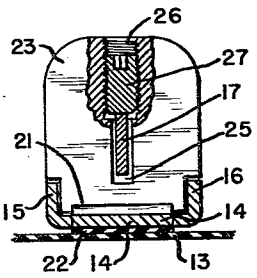


Fig. 3



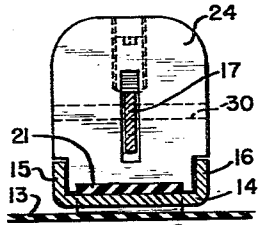
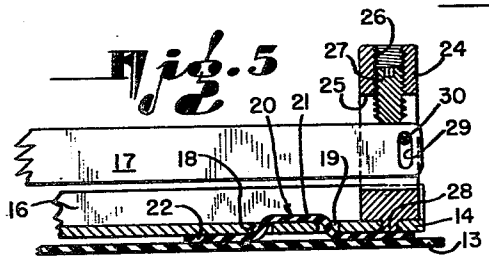


Fig. 4

Fig. 5



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BINDER

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5 Claims. (Cl. 281—19)

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The present invention relates generally to binders, and is more particularly concerned with improvements in temporary binders which may be utilized for the protection of publications such as periodicals, magazines, telephone directories, and the like, in libraries, reading rooms, reception rooms, and other more or less public places, wherein such publications are subjected to considerable handling and wear.

One object of the herein described invention is to provide a binder which is pleasing in appearance, durable, a binder which is easily attached to a publication and securely retained in attached position, and which is economical of manufacture.

A further object of the invention resides in the provision of a temporary binder for a publication, wherein the publication is securely retained within the binder by a novel clamping bar arrangement associated with novel latching means for the clamping bar.

A still further object of the invention is to provide novel means for securing the binder attaching means to the back structure of the binder.

Still another object of the invention is to provide unique securing means for clampingly attaching the binder to a magazine or other publication, wherein the attaching means is secured to the back structure of the binder in such a way as to form spaced paths for cooperation with projections on a clamping bar, so as to more efficiently secure the binder and publication.

Further objects of the invention will be brought out in the following parts of the specification, wherein detailed description is for the purpose of fully disclosing the invention without placing limitations on the scope of the invention defined in the appended claims.

Referring to the drawings, which are for illustrative purposes only:

Fig. 1 is an isometric view showing the binder of the present invention attached to a magazine;

Fig. 2 is a longitudinal section through the back structure and attaching means of the binder;

Fig. 3 is a fragmentary sectional view having cutaway portions, the section being taken substantially on line 3—3 of Fig. 2;

Fig. 4 is a similar view, the section being taken substantially on line 4—4 of Fig. 2; and

Fig. 5 is an enlarged fragmentary sectional view at one end of the back structure showing details of mounting the attaching means on the back of the binder.

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Referring generally to the drawings, for purposes of illustration, the binder of the present invention is disclosed as comprising a pair of cover members 10 of suitable material, and have been shown as consisting of a clear plastic in order that the title and other indicia of a publication secured in the binder may be readily viewed through the cover members. Identification of the magazine in the binder is thus facilitated, and the necessity of placing identifying indicia on the outside of the binder cover is eliminated. Moreover, the utilization of a plastic provides a very durable binder cover which stands up well under hard and extreme usage.

The cover members are secured at their inner edge margins 11—11 to the edge margins 12—12 of a back strip 13 of suitable material. For such purpose, I have utilized a flexible plastic commonly known as polyvinyl-chloride, so that this back strip not only serves as a back for the binder, but also provides a hinge for the cover members.. The utilization of plastic materials as herein described for the back strip 13 and cover members 10, permit these members to be secured together at their overlapped marginal edges 12 and 11 by electronic or radio frequency bonding, thereby eliminating the use of bonding materials such as glue which serve to attract rodents and vermin.

As shown in Figs. 2, 3 and 4, the back structure of the binder is reenforced by means of an elongate rigid back bar 14 of channel construction, and having lateral flanges 15 and 16. The back bar 14 is attached to the back strip 13, with its side flanges projecting and between which the back of the magazine may be disposed and retained in attached position by means of a clamping bar 17 which will subsequently be more fully described.

The back bar 14 is secured at intervals to the back strip. For such purpose, the back bar is provided with a plurality of sets of slots, each set comprising a pair of transversely extending parallel spaced slots 18 and 19 as shown in Fig. 5. A securing strip 20 of suitable material, in this case being of the same material as the back strip 13, is threaded through the slots so as to provide a raised pad forming portion 21 lying within the channel between the associated slots, and end marginal portions 22 lying between the back bar and back strip. These end marginal portions 22 are secured to the back strip 13 by electronic or radio frequency bonding in a manner well understood in the art. In the arrangement described above, the bonding is facilitated as the

back bar 14 provides a built in electrode in engagement with one surface of the material to be bonded. By the foregoing unique arrangement, it is possible to utilize electronic bonding for obtaining an attachment between a plastic back strip and a metallic back bar.

A pair of posts 23 and 24 are respectively mounted at the ends of the back bar 14, each of the posts having a slot opening 25 extending therethrough and respectively opening into the confronting face surfaces of the posts, as clearly shown in Fig. 2. A threaded bore 26 is provided in each post, this bore communicating with the slot 25 and being adapted to mount therein a clamping screw plug 27 for engagement at its inner end with the adjacent edge of the clamping bar, and by means of which the clamping bar may be moved toward the back bar 14 into clamping position and secured against removal.

The post 24, as shown in Fig. 5, is rigidly secured to the associated end of the back bar 14 by a post mounting stud 28 or other suitable means. This post also serves as a pivotal mounting for the clamping bar 17, the associated end of the bar being provided with an elongate slot 29 through which a pivot pin 30 extends. It will be noted that the slot 29 extends in a transverse direction of the clamping bar so as to permit lateral movements of the bar end within the slot 25 by means of the clamping screw plug 27. At the same time, however, the pivotal mounting of the clamping bar 17 permits swinging movement thereof as shown in dotted lines in Fig. 2 about the pivot pin 30 as a fulcrum.

The other post 23 is utilized as a latch for latching and releasing the bar 17 for swinging movement to permit attachment of the binder to a publication or magazine. The free end of the clamping bar is adapted to enter the slot 25 of post 23. It will be apparent, by reference to Fig. 2, that the free end of the clamping bar cannot be swung into the associated slot 25, when the post 23 is in the full line position as shown in Fig. 2. The post 23 is therefore hinged for pivotal movement by securing it to the adjacent end of the back bar 14 by means of a suitable pivot pin 31, the outside bottom edge of the post being shaped as shown at 32 so as to permit movement of the post from full line to dotted line positions, as shown. In the dotted line position, it will be observed that the clamping bar 17 may be swung toward the back bar 14 until it is in substantially parallel relation thereto. In order to latch the clamping bar in this position, the post 23 is swung about its pivot from the dotted line position to full line position, this movement causing the associated end of the clamping bar to enter the slot 25 of the post.

It will therefore be apparent that if a magazine or other publication is mounted with its back in the channel 14 between the side flanges 15 and 16, with the clamping bar 17 extending between the rear margins of the magazine pages approximately at the center of the back, that if the post 23 is moved to full line position so as to latch the free end of the bar against outward swinging movement, actuation of the clamping screw plugs in a direction to move the bar to clamping position will secure the magazine within the binder until it is desired to remove the same.

In order to increase the clamping effect, and more securely hold the magazine within the

binder, the clamping bar 17 is provided with a plurality of spaced toothed projections on its lowermost edge as indicated by the numeral 33. The projections 33 are so spaced as to correspond with the spacing between cooperatively associated pads 21, the projections and pads thus coacting to more securely retain the binder in attached position on the magazine or publication.

I claim:

1. A binder, comprising: a cover including a back member; an elongate rigid back bar extending lengthwise between the ends of the back member, said bar having a plurality of sets of slot openings therein spaced between its ends; strips of flexible material respectively secured to the back member and projecting through said sets of slot openings to anchor the back bar to the back member and form pads on the opposite side of the back bar from the back member; a clamping bar supported on said back bar and having toothed projections respectively cooperating in clamped position of the clamping bar with said pads to secure a magazine in the binder; and means for securing the clamping bar in clamping position.

2. A binder, comprising: a cover including a back member; an elongate rigid back bar extending lengthwise between the ends of the back member; securing strips for anchoring the back bar to the back member and having portions forming spaced pads on the opposite side of the bar from the back member; a clamping bar supported on said back bar adapted to clampingly cooperate in clamped position with said pads to secure a magazine in said binder; and means for securing the clamping bar in clamping position.

3. A binder, comprising: a cover including a back member; an elongate rigid back bar extending lengthwise between the ends of the back member, said bar having a plurality of slot openings spaced therein between its ends; strips of flexible material respectively projecting through said slot openings and over portions of the bar between said slots with their end margins disposed in contact with said bar and back member, and bonded to the latter; and means for securing a magazine to said bar.

4. A binder, comprising: a back structure; an elongate clamping bar having an elongate transverse slot at one end; a pivot member in said slot pivotally supporting said bar for swinging movement to angularly disposed and substantially parallel position to said back structure, and shifting movement of the pivoted end in clamping position of the bar; and screw plugs engageable with the clamping bar ends, when the bar is substantially in parallel position with respect to said back structure, for bodily moving the bar to force it into clamped locked relation with the back structure.

5. A binder, comprising: a rigid back bar; a post member rigidly affixed at one end of said bar and having a vertical slot therein; an elongate clamping bar having a portion at one end positioned in said post slot, said portion having an elongate transverse slot therein; a pivot member carried by said fixed post member extending through said transverse slot so as to pivotally support said clamping bar for selective swinging movement to an angular position and a substantially parallel clamping position with respect to said back bar, and in the latter position enabling lateral movement of the pivoted

end of the clamping bar; a second post member hingedly connected at the other end of said back bar having a vertical slot adapted to receive a portion of the free end of the clamping bar therein, and said second post member by its swinging movement being positionable in latched and unlatched positions with respect to the associated end of the clamping bar when in its parallel clamping position; and screw plugs carried by said posts for bodily moving the clamping bar into clamped relation with said back bar, and the screw plug of the hinged post member acting to retain said post against swinging movement to its unlatched position.

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