Jan. 9, 1934. W. A. GORDON ET AL 1,942,547

BINDER

Filed May 19, 1933

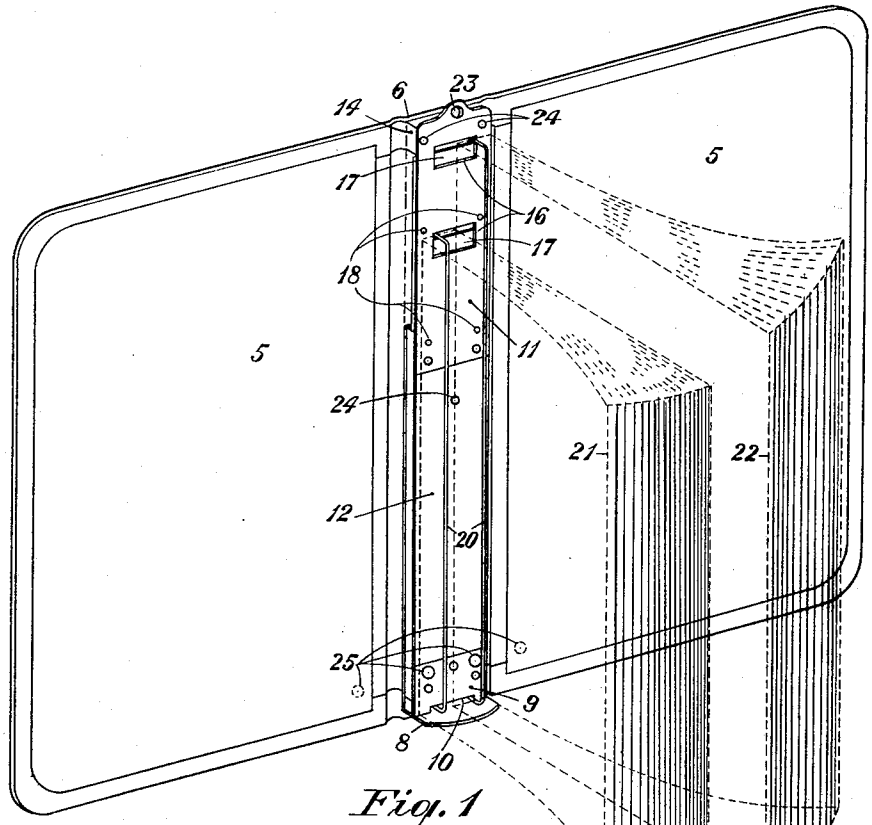


Fig. 1

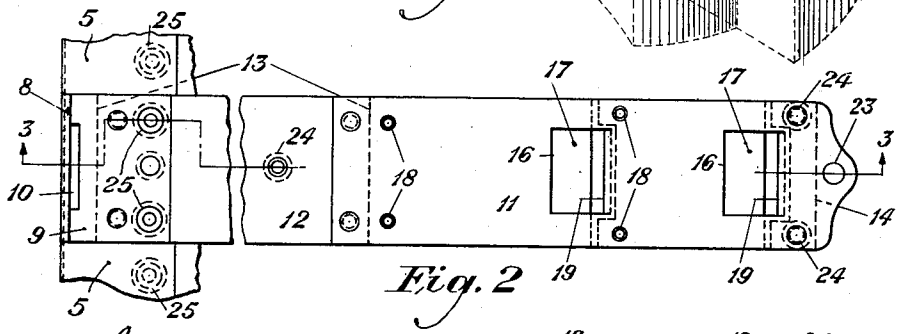


Fig. 2

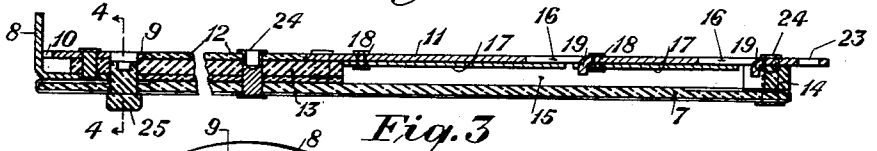


Fig. 3

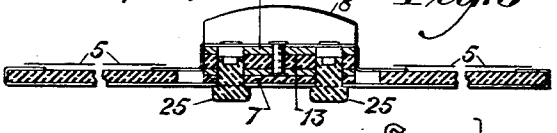


Fig. 4

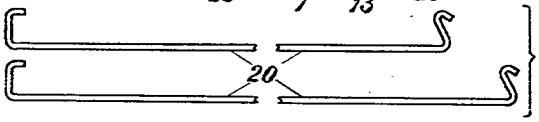


Fig. 5

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BINDER

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Application May 19, 1933. Serial No. 671,922

3 Claims. (Cl. 129—38)

This invention relates to binders of that type in which a plurality of directories, pamphlets, catalogues, or the like, may be removably confined. The invention concerns itself more directly with means for holding the directories, or the like, and involves a structure whereby one directory may be inserted or removed from the binder without disturbing other of the directories already positioned therein. A further object is to provide a binder of minimum length and weight.

The normal features which are considered characteristic of this invention, are set forth with particularity in the appended claims. The invention itself, both as to organization and method of operation, together with other objects and advantages thereof, will be further explained in the following detailed description, having reference to the accompanying drawing consisting of the following figures:

Figure 1 is a perspective view of the improved binder and contained directories, or the like.

Fig. 2 is a plan view of a back plate or directory supporting structure carried by the binder.

Fig. 3 is a section taken on the line 3—3 of Fig. 2.

Fig. 4 is a section taken on the line 4—4 of Fig. 3 looking in the direction of the arrows.

Fig. 5 illustrates rods of different lengths which form supports for the directories, or the like.

Referring to the drawing, there is shown a binder having side covers 5, 5 which are hingedly connected to the back portion 6. These portions of the binder may be made from binder board, or other suitable material, and a binding of canvas, or the like, is provided to cover said board while the inner surfaces of the covers 5, 5 may have a paper lining applied thereto. The back portion 6 of the binder is shown as having a filler strip 7 lying flatly thereon and substantially covering its inner surface. This strip may be of cardboard, or some such material. An angle member 8 is positioned at the lower end of the back portion 6, and one of the flanges of the member 8 rests upon the strip 7. The other flange of the member 8 extends outwardly at right angles to the back portion 6 and strip 7 and forms a support for the heels of the directories or the like which are carried on rods to be presently described. A rectangular plate 9, of metal, lies parallel to the rear flange of the angle member 8, and one of the ends of said plate abuts the other or outwardly extending flange of the angle member. The abutting end of the plate 9 has a slot 10 formed therein for a purpose which will be presently described. The plate 9 may be extended along the entire length of the back portion 6, or as shown in the present instance, the plate 9 extends only a relatively short distance along the back portion, while a second plate 11 and a filler 12 lying intermediate the plates, occupy the space between the top and bottom of the back portion. The plate and filler present flat and even surfaces against which the backs of the mounted books may abut.

A filler 13 of a rigid character, such as a vulcanized fibre, is positioned intermediate the back filler strip 7, and the plates 9 and 11, and the filler 12. The filler 13 may extend from a point near the bottom of the back portion 6 to a point above the lower edge of the plate 11. An additional filler 14 forms a continuation of the filler 13. The fillers 13 and 14 form supports for the plates 9 and 11, and the intermediate strip 12. It will be seen that a space 15 is provided between the fillers 13 and 14, and that this space lies back of that portion of the plate 11 wherein rectangular openings 16, 16 appear. This space is provided to permit the movement of metal springs 17 which are suitably attached, as shown for instance at 18, at one of their ends to the rear surface of the plate 11. The spring members 17 lie flatly against the rear surface of the plate 11, and their free ends extend and cover the major portion of the openings 16 and terminate at such distance from the upper edges of the openings 16, as to form a slot between the ends of the springs 17 and the upper edges of the openings 16. These upper edges are turned inwardly to form tongues 19. The springs thus form, in effect, a latch.

Rods 20, which may be made from piano wire or other suitable material, are adapted to be inserted in the openings 16 and in the slot 10. The lower ends of the rods are of somewhat L-shaped formation and register in the slot 10, while the upper ends of said rods are of hook formation, and when inserted in the openings engage with the ends of the springs in latch-like relation, and the ends of the hook portions engage with the tongue portions 19. The rods are thus held in locked position and in such relation that the longitudinal movement of the directories which may be mounted on the rods 20 is negligible. The rods however are adapted to be adjusted laterally. It will be noted that the rods 20 are different lengths to accommodate directories, pamphlets or the like 21 and 22, of different lengths. The openings 16 may be varied in width to accommodate directories or the like of different thicknesses. By

means of the rods of the character mentioned the length and weight of the binder are minimized.

The end of the plate 11 may extend beyond the top of the binder, and an opening 23 may be provided therein for the purpose of hanging the binder and its contained matter in suspended position.

The various elements carried by the back portion 6 of the binder, may be secured to each other and to the back portion, by any suitable form of fastening, and rivets 24 are shown in the present case for this purpose. To absorb shocks attending the use of the binder, rubber knobs or bumpers may be applied to the back and sides of the binder near its bottom, as shown at 25 in Fig. 2.

In the mounting operation of a directory, or the like, a rod is selected in accordance with the size of such directory, and its associated spring 17 is depressed. This operation is easily and readily performed by inserting a finger through the opening associated with the spring selected, and pushing the end of the spring inwardly toward the back of the binder. The rod may be sprung outwardly and unlatched at this time, and removed from its mounting in an obvious manner. When so released, the rod may be inserted in the approximate center of the pages of the directory to be mounted, and then returned and placed in position by inserting the lower end of the rod into the slot 10 and latching the upper hooked end of the rod by depressing the spring and securing the hooked portion to the tongue 19. By this operation the rod is locked in position and the directory or the like, will be supported with its bound edge abutting the back of the binder.

It will be apparent that while accommodations for directories of only two sizes have been shown and described, additional numbers and sizes of directories may be cared for by the provision of additional rods and mountings. It also will be apparent that the individual directories may be removed from, and replaced in, the binder without disturbing the associated directory.

What is claimed is:

1. A binder for pamphlets and the like including side covers and an interconnecting back portion therefor, mounting means connected with the back portion and having spaced openings therein, removable pamphlet-holding rods having hooked portions at each end, one hooked portion engaging with one of said openings to permit the rod to be swung to and from the back portion and the other end of the rod being adapted to be hooked under an edge of another of said openings and latched therein, and resilient means for pressing said rods in latched relation against the under side of the edges of said openings.

2. A binder for pamphlets and the like including side covers and an interconnecting back portion therefor, mounting means connected with the back portion and having spaced openings therein, removable rods having hooked portions at each end, said rods being of different lengths for holding pamphlets of different lengths, one hooked portion of the rod engaging with one of said openings to permit the rod to be swung to and from the back portion and the other end of the rod being adapted to be hooked under an edge of another of said openings and latched therein, and resilient means for pressing said rods in latched relation against the under side of the edges of said openings.

3. A binder for pamphlets and the like including side covers and an interconnecting back portion therefor, a plate carried by the back portion and having spaced apertures therein, removable pamphlet-holding rods having hooked members at each end for engagement under the edges of said apertures, and resilient means associated with certain of said apertures for pressing the hooked ends of the rods against the under sides of the edges of said apertures so as to prevent longitudinal movement and to permit lateral movement thereof.

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