

Sept. 20, 1932.

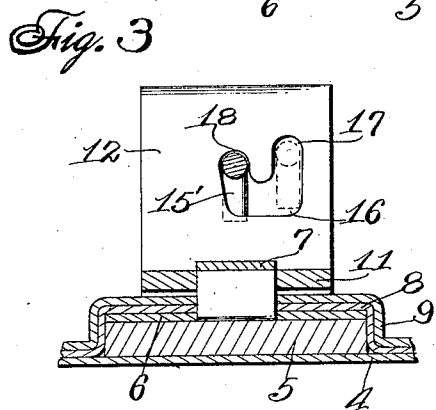
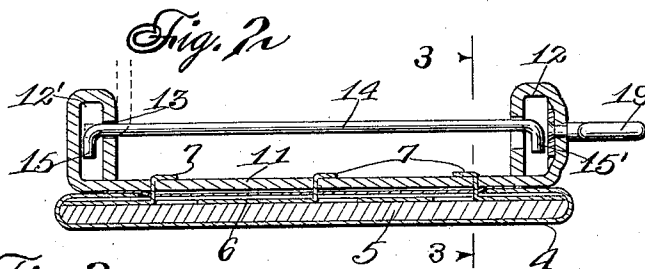
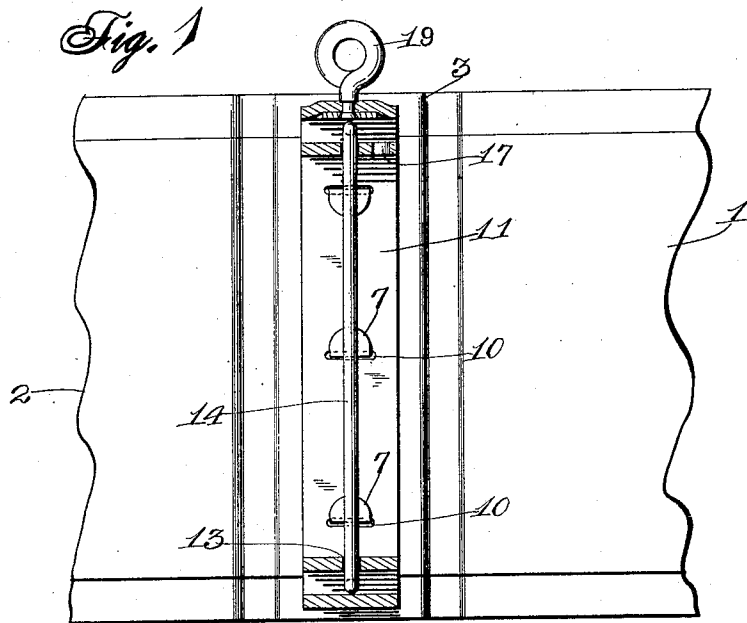
C. H. FRANZ, JR

1,877,831

LOOSE LEAF BINDER

Filed May 22, 1931

2 Sheets-Sheet 1



Inventor
C. H. Franz, Jr.
By *Young & Young*
Attorneys

Sept. 20, 1932.

C. H. FRANZ, JR

1,877,831

LOOSE LEAF BINDER

Filed May 22, 1931

2 Sheets-Sheet 2

Fig. 4.

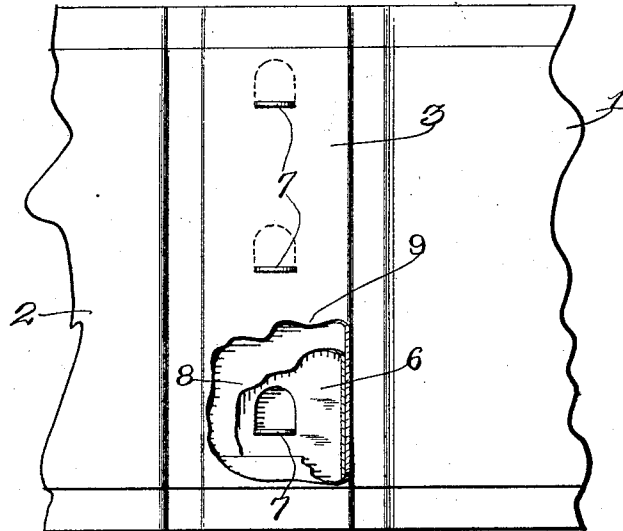


Fig. 5

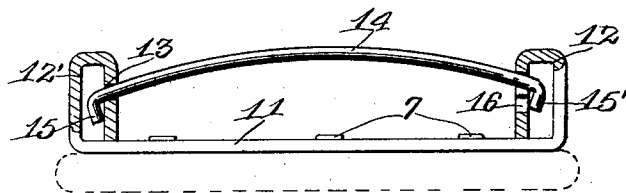
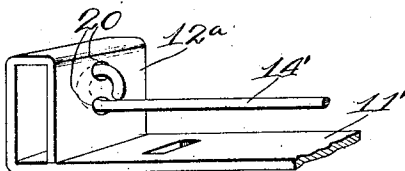


Fig. 6



Inventor
C. H. FRANZ, JR.
By *Yummy & Yummy*
Attorneys

UNITED STATES PATENT OFFICE

CHARLES H. FRANZ, JR., OF WAUWATOSA, WISCONSIN

LOOSE-LEAF BINDER

Application filed May 22, 1931. Serial No. 539,252.

This invention relates to improvements in loose-leaf binders.

One of the objects of the present invention is the provision of a loose-leaf or temporary binder which is particularly adapted for holding magazines, catalogs, books, loose-leaves, telephone directories, and the like in a temporary binder or cover, whereby the catalogs, magazines, or the like, can be quickly and easily removed or replaced.

Another object of the present invention is the provision of a loose-leaf binder of the above character wherein a retaining plate is embedded within the binder back and detachably connected with the plate is a supporting and retaining element for the magazines, catalogs, or the like, which carries a detachable rod for engagement between the leaves of a folder, magazine, book, telephone directory, or the like, for retaining the same in position relative to the holder and through the detachable connection of the holder with the plate, the holder can be quickly and readily removed from the binder when the same is worn to an extent where it will be necessary to dispense with the same and replace it with a new binder.

A further object of the present invention is the provision of novel means for retaining the rod in position relative to the detachable supporting member, so that the rod will not be accidentally displaced, but at the same time can be quickly and readily detached for permitting engagement of the same with any magazines, books, telephone directories, or the like.

With the above and other objects in view, the invention consists in the novel features of construction, the combination and arrangement of parts hereinafter more fully set forth, pointed out in the claims and shown in the accompanying drawings wherein:

Figure 1 is a plan view of the interior of the binder, with parts thereof broken away and illustrated in cross-section;

Figure 2 is a longitudinal sectional view;

Figure 3 is a detailed transverse section on the line 3—3 of Figure 2;

Figure 4 is a plan view of the interior of

the binder, with the holder removed and parts thereof broken away and illustrated in cross-section;

Figure 5 is a detailed side elevation of the holder with parts broken away and illustrated in section; and,

Figure 6 is a detailed perspective view of one end of a holder, illustrating a slightly modified form.

These temporary binders comprise two opposed cover members 1 and 2, with a central comparatively rigid portion 3. The binder itself includes an outside covering of leather or imitation leather, as indicated at 4 and longitudinally of the back portion 3 is a reinforcing cardboard strip 5 upon the inside of the cover portion 4, and on top of the cardboard strip 5, I provide a stiffening plate 6 which is not only used for reinforcing the intermediate section of the binder, but is used as an attaching plate.

Struck out from the body of the plate 6 are a plurality of tongues 7 which extend upwardly as shown at Figure 2 through an inner liner 8 and the lining or inside cover 9. The upper ends of the tongues 7 are adapted to pass through transverse slots 10 in the body bar 11 of the detachable holder.

The body bar 11 has its ends bent upon themselves to form substantially rectangular housings 12 and 12'. These housings are arranged at each end of the bar 11 and positioned at the ends of the plate 6. The inner wall of the housing 12' is provided with a single opening 13 adapted to receive one end of the retaining rod 14. The end of the rod 14 which passes through opening 13 is extended laterally to form an offset terminal 15.

The inner wall of the housing 12 is provided with a transverse opening 16, one side of which is provided with a recess or slot 17 and a slightly shorter recess 18 to receive the other lateral terminal 15' of the rod 14.

One of the main features of the housings is the fact that the retaining rod 14 can be quickly and readily detached therefrom, but when in operative position will be securely retained against incidental displacement.

Attention is directed to the fact that when the rod 14 is used for retaining magazines, 300

catalogs, telephone directories or other such publications within the binder, the lateral terminal 15' is arranged opposite the recess 18 and as the total transverse width of the opening 16 at this point is shorter than the terminal 15', the terminal cannot be displaced through recess 18.

However, when the terminal is moved to the dotted line position, shown in Figure 3, the rod 14 may be displaced by bending the same sufficiently to permit the terminal to be withdrawn through opening 16 and recess 17, thus providing for quick and ready displacement of the rod 14 when it is desired to remove articles from the binder, or place them therein. It will also be noted that after the lateral terminal 15' has been removed, the rod may be swung upwardly as shown by the dotted line in Figure 2 to displace the lateral terminal 15.

As shown in Figures 1, 2 and 3, the tongues 7 on the plate 6 are extended upwardly through slots 10 in the body bar 11, with their upper terminals turned over onto the inner face of the bar 11 for retaining this bar in position between the covers 1 and 2, and the housing 12 has engaged with the outer wall thereof, a loop 19 whereby a chain, cord, or similar element may be used for suspending the holder wherever desired.

In the construction of binders of this type, the holders are so constructed with respect to the binder, that when the cover portions are worn to the extent of replacement, the entire binder must be thrown away which is a rather expensive procedure, and in order to overcome this unnecessary cost, I provide means whereby the holder can be quickly and readily detached from the binder, or attached to a new binder, as the binder itself includes only the two cover members 1 and 2 and the central portion which includes the plate 6.

As the plate 6 is an inexpensive item in the manufacture of this type of binder, it will be noted that when the binder in the present instance becomes worn where it is necessary to replace the same, the holder bar 11 can be quickly detached from the plate 6 by turning up the ends of the tongues 7 so that they will readily pass through the slots 10. This will permit the holder to be quickly detached and connected to a new binder.

In Figure 5, I have illustrated the relative curvature the rod 14 will assume when it is desired to displace the lateral terminal 15' from the opening 16 and recess 17. In Figure 6, I have illustrated a slightly modified construction, wherein the rod 14' has one end thereof looped through spaced openings 20 in end housing 12a of the bar 11'. This form of construction provides means whereby the rod 14' is attached to one of the housings against displacement, but will permit swinging movement of the rod, so that the other end can be displaced as previously disclosed.

In Figure 4, the inside plan view of the binder discloses the plate 6, the inner liner 8 and a central lining piece 9. The outside cover portion 4 is folded inwardly onto the inside of the cover and secured thereto by means of adhesive.

It is believed from the foregoing that I have provided a very simple and inexpensive loose-leaf binder or temporary binder which will reduce the cost of such binders to the extent that when it is necessary to replace a worn-out binder, the entire binder will not have to be discarded as the holder portion of the binder can be quickly and readily detached from the plate 6, and fitted within a new binder.

This operation will save the necessary expense of replacing the holder, as well as the binder and provide a holder which can be quickly and readily attached to the binder or detached therefrom.

While I have shown and described the preferred embodiment of my invention, it will be apparent from the foregoing that slight changes may be made in the construction when putting the invention into practice without departing from the spirit of the same or the scope of the appended claims.

I claim:

1. A loose-leaf binder including a back member, a holder including a body bar, means for detachably connecting the body bar to the back member, substantially rectangular housings at the ends of the body bar, one of said housings having a transverse opening comprising spaced slots, one of said slots being deeper than the other, a retaining rod having a lateral terminal at one end adapted to be detachably engaged with one of said housings and a lateral terminal at the other end adapted to be inserted through the longer recess and moved laterally behind the shorter recess to detachably connect the rod to the housings.

2. A loose-leaf binder comprising a back member, a reinforcing plate carried by the back member and extending substantially the full length thereof, spaced tongues struck upwardly from the reinforcing plate, a removable holder comprising a flat body bar detachably fitted upon the back and extending substantially the full length thereof having slots therein for receiving the bendable tongues, substantially rectangular housings formed on the ends of the body bar, one of said housings having an opening therein, and the other of said housings having an opening comprising spaced vertical connecting slots, with one of the slots being of a greater length than the other slot, a flexible retaining bar having one end inserted in the opening of one housing and the other end movable into the opening of the other housing, said last-mentioned end of the rod having a lateral extension insertable through the

longer slot of the last mentioned housing, the rod being movable laterally within the shorter slot to dispose the extension in rear of the walls of the shorter slot.

5 3. In a loose-leaf binder, a back member, substantially rectangular housings at the ends of the back member, and a retaining rod having one end connected with one housing, the other end of the rod being provided
10 with a lateral extension, the other housing being provided with an opening having a short and a long slot in one wall thereof, the lateral extension of the rod being insertable through the longer slot and movable
15 laterally behind the shorter slot to detachably connect the rod to the last-mentioned housing.

20 In testimony that I claim the foregoing I have hereunto set my hand at Milwaukee in the county of Milwaukee and State of Wisconsin.

CHARLES H. FRANZ, JR.