May 8, 1923. 1,454,182

A. W. MYER

LOOSE LEAF BINDER

Filed March 16, 1921

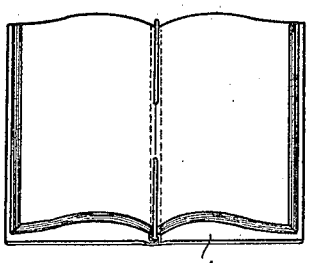


Fig. 1

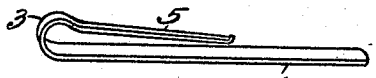


Fig. 2

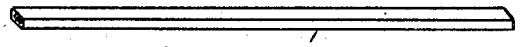


Fig. 3

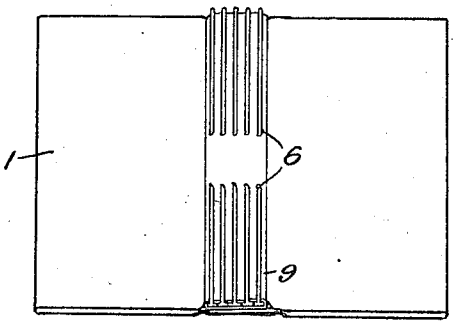


Fig. 4

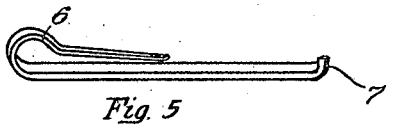


Fig. 5

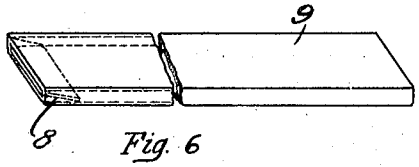


Fig. 6

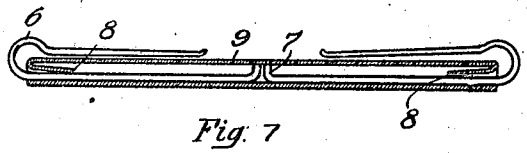


Fig. 7

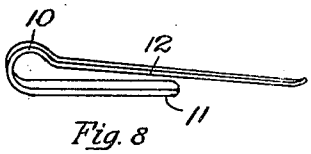


Fig. 8

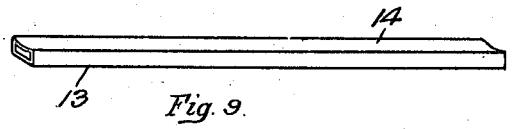


Fig. 9

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Patented May 8, 1923. 1,454,182

UNITED STATES PATENT OFFICE.

ANSON WILLIS MYER, OF KINGSTON, NEW YORK.

LOOSE-LEAF BINDER.

Application filed March 16, 1921. Serial No. 452,727.

To all whom it may concern:

Be it known that I, ANSON W. MYER, a citizen of the United States, residing at Kingston, in the county of Ulster and State of New York, have invented certain new and useful Improvements in Loose-Leaf Binders, of which the following is a full, clear, and exact description.

This invention relates to a loose leaf binder for loose leaf manuscript, sections in sewed books, pamphlets and the like, and has for its object to provide a simple and inexpensive means for detachably holding such articles in book form.

Another object of the invention is the provision of means which may be quickly and expeditiously operated for either applying leaves to the holder or removing the same from the holder.

Other objects and advantages of the invention will be apparent from the following description when taken in connection with the accompanying drawing, in which:

Figure 1 is a perspective view of a book, showing the spring holder in place.

Figure 2 is a perspective view of the holder.

Figure 3 is a perspective view of the tube which receives a portion of the holder.

Figure 4 is a perspective view of the tube with the holders in place therein.

Figure 5 is a perspective view of a modified form of holder.

Figure 6 is a perspective view of a modified tube.

Figure 7 is a longitudinal section through the tube and holder shown in Figure 4.

Figure 8 is a perspective view of a still further modified holder, and

Figure 9 is a perspective view of a further modified tube.

Referring to the drawing more in detail, the numeral 1 designates a book cover, to which is secured by adhesive or the like an open-ended tube 2. Slidably mounted in the tube 2 are a plurality of holders 3 formed of spring steel and provided with the shank portion 4 and relatively short finger or arm 5. The shank and finger are joined by a looped portion to give added resiliency.

To attach a pamphlet or a number of loose leaves to the back 1 it is only necessary to slide one or both of the holders 3 outwardly a slight distance, place the pamphlet or loose leaves against the back 1 and return the holders to their normal or inward position.

In the modified form of the invention shown in Figures 4, 5 and 6 the holder is provided with an upwardly turned lug 7 on the end of the shank, which cooperates with the resilient flange 8 on the interior of the tube 9. The purpose of the lug 7 and resilient flange 8 being to permit sliding of the holders 6, but prevent their complete withdrawal from the tube 9. This structure is adapted for use in the formation of relatively large books, such, for instance, as 4 or 5 pamphlets or loose leaf sections of sewed books united in a single cover.

In the form of the invention shown in Figure 8 the holder 10 is provided with a relatively short shank 11 and a long finger or arm 12. This holder may be used without a tube and is adapted to hold loose leaves between the bound leaves of a book, the shank 11 being inserted between the sewed edges of the leaves and the back of the book, or over the back of the book.

In Figure 9 I have shown a modified form of tube 13 provided with a concave face 14 which is adapted to be secured to the back of loose leaf blank books and the like and will receive the shanks of the sliding holders in the manner previously described.

In accordance with the patent statutes, I have described what I now believe to be the best embodiment of the invention, but I do not wish to be understood thereby as limiting myself or the scope of the invention, as many changes and modifications may be made without departing from the spirit of the invention; all such I aim to include in the scope of the appended claims.

What I claim as new and desire to secure by Letters Patent is:

1. In a loose leaf binder, a one-piece substantially U-shaped resilient holder, one leg of the holder being slender and adapted to extend between the leaves of a book, and the other leg being relatively wide and adapted to extend between the sewed edges of the leaves and the back of the book.

2. In a loose leaf binder, a one-piece, substantially U-shaped resilient holder, one leg of the holder being urged toward the other leg and practically in contact therewith, each of the legs being free from lateral projections, whereby the holder may be applied to a bound book with one leg inserted between the sewed edges and the back of the

book, and the other leg is adapted to engage a loose leaf or the like and press a portion of the same between the sewed leaves of the book.

3. A loose leaf binder including a cover comprising sides and a back, a tube secured to the back, inclined lugs bent inwardly from the ends of said tube, U-shaped holders having a portion thereof inserted in said tube, and means on said inserted portion for engaging said lugs.

4. A loose leaf binder including a cover comprising sides and a back, an open-ended tube secured to the inside of the back, inwardly extending flanges on the ends of said tube, a plurality of U-shaped holders connected to each end of said tube and having a portion thereof extending into the tube, and lugs on the end of the inserted portion of each U-shaped member adapted to engage said inwardly extending flanges.

In testimony whereof I affix my signature.

ANSON WILLIS MYER.