F. D. PITT AND G. W. NEWMAN.

TEMPORARY BINDER.

APPLICATION FILED JULY 10, 1919.

1,423,015. Patented July 18, 1922.

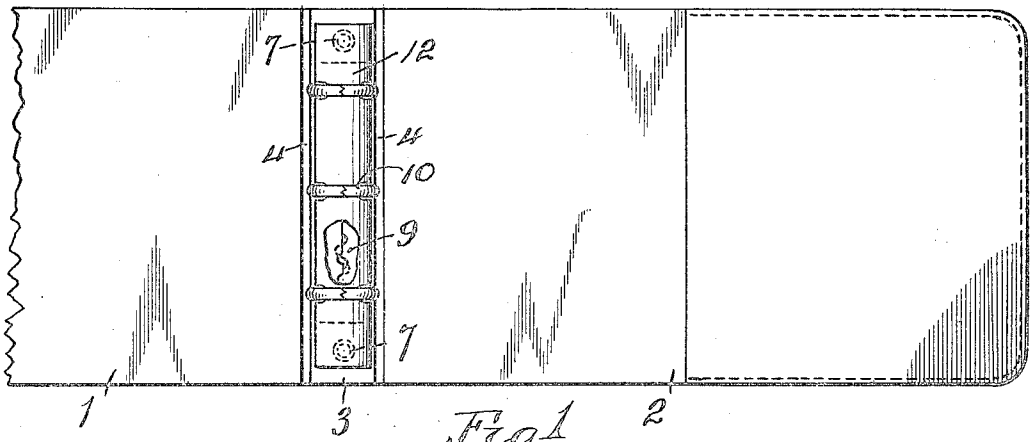


Fig 1

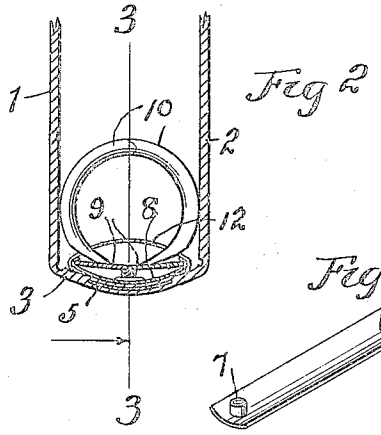


Fig 2

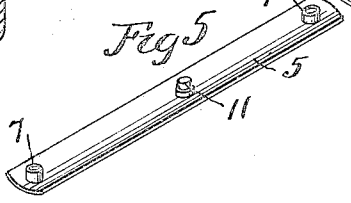


Fig 5

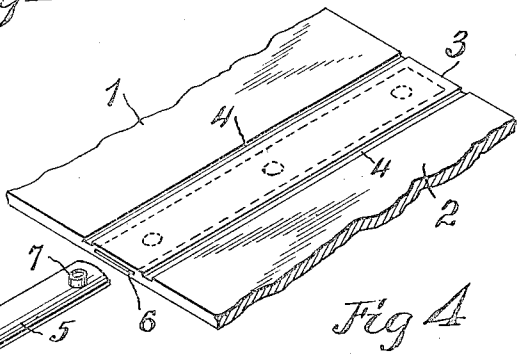


Fig 4

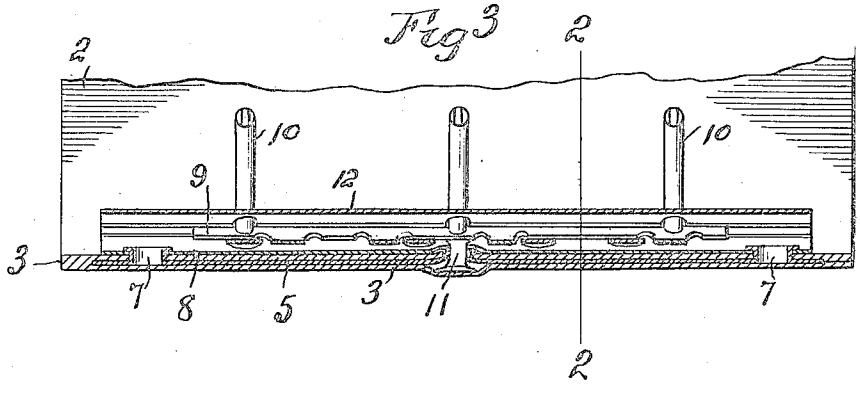


Fig 3

Witness:

R. E. Hamilton

Frederick D. Pitt INVENTORS

George W. Newman

BY

Warren D. House

Their ATTORNEY

UNITED STATES PATENT OFFICE.

FREDERICK D. PITT AND GEORGE W. NEWMAN, OF KANSAS CITY, MISSOURI, ASSIGNORS TO IRVING-PITT MANUFACTURING COMPANY, OF KANSAS CITY, MISSOURI, A CORPORATION OF MISSOURI.

TEMPORARY BINDER.

1,423,015. Specification of Letters Patent. Patented July 18, 1922.

Application filed July 10, 1919. Serial No. 309,923.

To all whom it may concern:

Be it known that we, FREDERICK D. PITT and GEORGE W. NEWMAN, citizens of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented a certain new and useful Improvement in Temporary Binders, of which the following is a specification.

Our invention relates to improvements in temporary binders.

It relates particularly to novel means for attaching a book cover to leaf holding means, particularly of the loose leaf type. The object of our invention is to provide novel book cover attaching means which eliminates stitching, gluing or the employment of securing devices which extend from the outer to the inner side of the cover.

A further object of our invention is the provision of simple, inexpensive and efficient means for attaching a book cover to leaf holding means.

The novel features of our invention are hereinafter fully described and claimed.

In the accompanying drawing, which illustrates the preferred embodiment of our invention, as applied to ring book construction,

Fig. 1 is a plan view, partly broken away, of a ring book provided with our improvement.

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

Fig. 3 is an enlarged central vertical sectional view on the line 3—3 of Fig. 2, showing a closed ring book, partly broken away, provided with our improvement.

Fig. 4 is a perspective view, enlarged, of a portion of the single ply cover sheet.

Fig. 5 is a perspective view, of the binding plate which is adapted for insertion into the pocket of the cover sheet.

Similar reference characters designate similar parts in the different views.

Our improved cover sheet is of single ply material, preferably comprising a single sheet of suitable material, preferably flexible, such as natural or artificial leather. In the preferred form of our invention, the cover sheet comprises the usual cover portions 1 and 2 and a back portion 3, between which and the cover portions may be provided on the inner side of the sheet longitudinal parallel grooves 4, which weaken the sheet at those points to enable the covers 1 and 2 to be swung easily to the closed position shown in Figs. 2 and 3.

Binding means adapted for attachment to leaf holding means is embedded in the cover sheet between the inner and outer sides thereof and preferably in the back portion 3.

Such binding means may comprise a metal binding plate 5, Fig. 5, preferably arcuate in cross section, and adapted to be slipped into a pocket 6 which is formed, preferably by cutting with a suitable instrument, in the cover sheet, between the inner and outer sides thereof, and preferably extending from one edge thereof parallel with the grooves 4 to a point short of the opposite edge of the cover sheet. By having the pocket 6 terminating short of one edge of the back 3, said edge is unbroken and the bottom of the pocket serves to register the back plate 5 in its proper position.

The binding plate 5 may be provided with one or more securing devices, preferably consisting in tubular extensions 7, which may formed integrally in the plate 5 and which are adapted to be extended through and riveted at their inner ends to a base plate 8, which forms part of an ordinary ring book loose leaf holding mechanism, which includes two hook plates 9 carrying abutting arcuate hooks 10, adapted to form rings for holding loose leaves in a manner well known. It will be noted that the inner and outer sides of the back 3 extend transversely continuously over the binding plate 5 from one side edge of the pocket 6 to the opposite side edge thereof, thus dispensing with the necessity of gluing or cementing the flexible cover sheet to the back plate.

The hook plates 9 are held in operative position at their outer edges by the flanged outer edges of the base plate 8, which may be a spring plate arranged to hold the hooks in the open or the closed position.

The binding plate 5 may have slidably mounted in it a button 11 arranged to have its inner end strike against the under sides of the hook plates 9 to force the latter to the open position, when pressure is applied to the outer side of the back portion 3, and against the outer end of the button 11.

In assembling the structure, after the pocket 6 has been cut in the cover sheet, the binding plate 5 is slipped endwise into the

pocket 6, the closed end of which forms a stop which properly positions the binding plate. The tubular extensions 7 are then forced through the inner side portion of the cover sheet and through holes provided in the base plate 8, after which the inner ends of the extensions 7 are upset, thus firmly attaching the base plate 8 to the binding plate 5.

In the use of our invention, no stitching or gluing is necessary for attaching the metal parts to the cover and no securing devices are required to be extended through the back of the cover. The usual cover 12 embracing the edges of the plate 8 may be employed. Any suitable means may be employed to form the pocket 6, which may be made by forcing a suitable cutting blade endwise into the cover sheet from one edge thereof, or the cover sheet may be forced over a suitable stationary cutting blade by suitable mechanism which feeds the cover sheet onto the blade until the required depth of pocket has been reached, after which the blade may be withdrawn or the cover sheet retracted by suitable means from the cutting blade.

We do not limit our invention to the structure shown and described, as many modifications, within the scope of the appended claims, may be made without departing from the spirit of our invention.

What we claim is:—

1. In a book cover, a single ply cover sheet comprising covers and a back, and binding means embedded between the inner and outer sides of the back, said sides extending continuously over said binding means from one side edge of said binding means to the other side edge thereof.

2. In a book cover, a single ply cover sheet comprising covers and a back, and a binding plate embedded in the back and having one or more extensions extending through and reaching to the inner side of the back, said side extending continuously over said binding plate from one side edge of the binding plate to the other side edge thereof.

3. In a book cover attaching means, a single ply cover sheet having a pocket between the inner and outer sides thereof, said sides extending continuously from one side edge of the pocket to the other side edge thereof.

4. In a book cover attaching means, a flexible single ply cover sheet having a pocket between the inner and outer sides thereof, said sides extending continuously from one side edge of the pocket to the other side edge thereof.

5. In a book cover attaching means, a single ply cover sheet, binding means embedded between the inner and outer sides thereof, said sides extending continuously transversely over said binding means, and a base member attached to said binding means at the inner side of said sheet.

6. In a book cover, a single ply cover sheet comprising cover and back portions, the back portion having a pocket between the inner and outer sides thereof extending between opposite end edges thereof and terminating short of one of said edges, binding means in said pocket, said sides extending continuously transversely over said binding means, and a base member at the inner side of the back portion attached to said binding means.

7. The method of book cover attachment consisting in forming a pocket between the inner and outer sides of a single ply cover sheet adapted to receive a binding member, said inner and outer sides being arranged to extend continuously transversely from one side edge of the pocket to the other side edge thereof, substantially as set forth.

8. The method of book cover attachment consisting in forming a pocket between the inner and outer sides of a single ply cover sheet adapted to receive a binding member and extending between opposite end edges of the cover sheet and terminating short of one of said edges, said sides extending continuously transversely from one side edge of the pocket to the other side edge thereof, substantially as set forth.

In testimony whereof we have signed our names to this specification.

FREDERICK D. PITT.
GEORGE W. NEWMAN.