Jan. 6, 1925. 1,522,142

G. H. RASMUSON

TEMPORARY BINDER

Filed Sept. 20, 1923

FIG. 1.

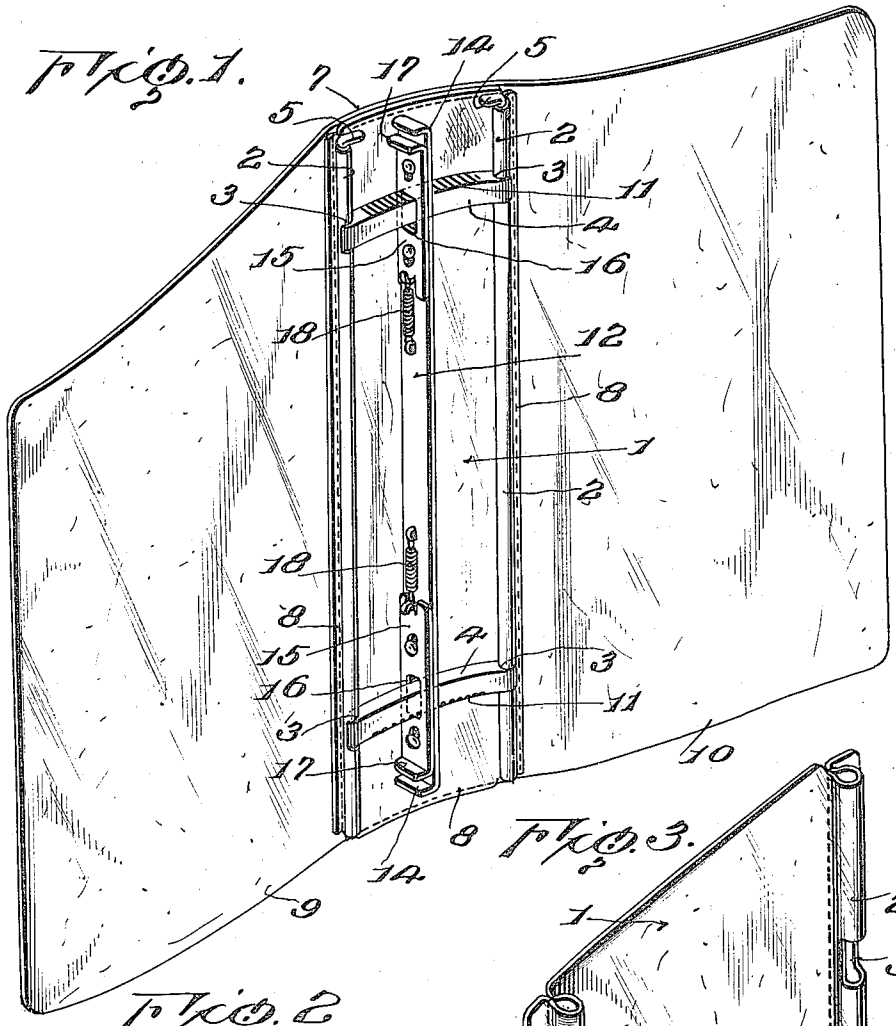


FIG. 3.

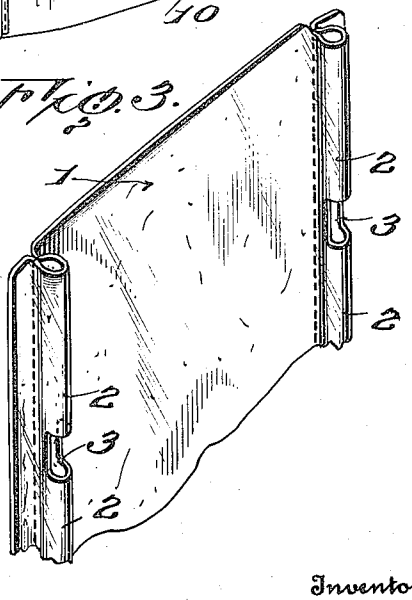


FIG. 2.

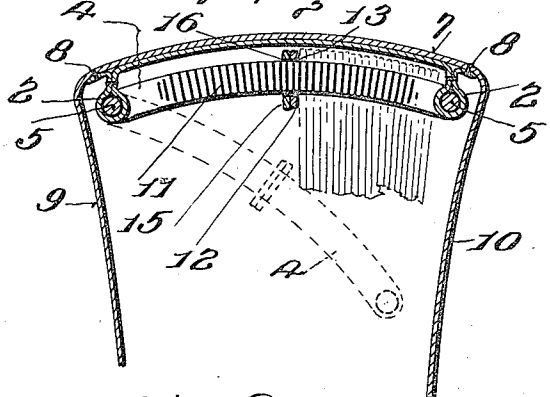
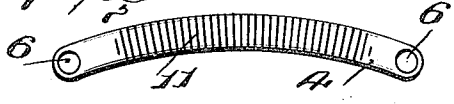


FIG. 4.



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UNITED STATES PATENT OFFICE.

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TEMPORARY BINDER.

Application filed September 20, 1923. Serial No. 663,848.

To all whom it may concern:

Be it known that I, GUSTAVE H. RASMUSON, a citizen of the United States, residing at Astoria, Long Island, in the county of Queens and State of New York, have invented certain new and useful Improvements in Temporary Binders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to devices for temporarily or permanently binding or filing in orderly arrangement, loose sheets, pages, signatures, pamphlets, papers, photographs or other like subjects, which it is desired to preserve in convenient form for ready reference as they accumulate, or to file in bulk.

One object of the present invention is the production of binders of the character indicated, wherein are combined to a marked degree, simplicity of construction, durability and efficiency.

A further object is the production of novel binding mechanism equally well adapted for use in conjunction with flexible one-piece covers, or the more usual double covers of either rigid or flexible character.

Another object is the production of a suitable follower or adjustable compressor plate for use in conjunction with the binder mechanism.

A further object is the production of binding posts of relatively wide and flat form, designed, arranged and adapted to pass through and retain pages thereon in accurate alinement, together with locking rods, detachably engaging both ends of said posts, and themselves removably mounted in hinge-loops carried by the binder back, or a sub-back secured therein.

With the foregoing and other objects in view the invention will now be particularly described, and hereinafter pointed out in the claims following.

In the accompanying drawings which form part of this application for letters patent and whereon like characters indicate corresponding parts in the several views:

Figure 1 is a perspective view of a temporary binder embodying the leading features of my invention, in this instance exemplified by covers and back of unitary structure and flexible form;

Figure 2 is a transverse sectional view upon a relatively enlarged scale, showing the binder-back, binding mechanism carried thereby, and a fragment of the front and back covers;

Figure 3 is a fragmentary view in perspective showing one end of the binder-base or body detached, with its integral side loops for receiving suitable locking rods; and

Figure 4 is a detached view in side elevation of one flat curved binding post.

Reference being had to the drawings and numerals thereon, 1 indicates a flexible binder-body, base or back-strip, of unitary structure, having corresponding and parallel rod-receiving loops 2, 2, near opposite edges thereof, and extending from top to bottom of the structure. The flexible back-strip 1 is looped upon itself near both edges as at 2, 2, the base of both loops being stitched through horizontally as clearly shown by Figs. 2 and 3, leaving upon the outside of each loop 2 a narrow horizontal flange by means of which the said flexible back strip, including its loops 2, 2, is finally stitched into the binder back 7 by means of lines of stitches 8, 8, best shown by Fig. 2.

At suitable points each of the said loops 2, 2 is broken by upper and lower oppositely disposed recesses 3, 3, arranged and adapted to receive the ends of two flat and curved binding posts 4, 4, upon which latter the contents of the binder may be filed. These posts 4, 4, in turn are removably secured in the operative position indicated by Figure 1, through agency of suitable removable locking-rods 5 and 5, adapted to be snugly sheathed within the side loops 2, 2, and thus to intersect openings 6, 6, in their respective binding posts as shown by Figures 1 and 2 of the drawings.

After the aforesaid binding elements 1, 2, 3, 4 and 5 have been assembled as described, the binder-body or back-strip 1 is secured to the binder back 7 by means of marginal stitches 8 at its top, bottom and sides, as best shown by Figure 1, immediately adjacent the usual front and back covers 9 and 10 respectively of the structure which covers may be either flexible as shown, or rigid, according to special requirements.

In any event, however, whether flexible or rigid covers are employed, the back 7 is always maintained in proper form because of the structural rigidity afforded by the side rods 5, 5, and their connecting posts 4, 4.

The posts 4, 4 as shown by the present drawings, may be notched as at 11 on their outer edges for use in conjunction with a compressor-plate 12, the latter slotted as at 13, near its opposite ends so as to ride over the posts aforesaid when occasion requires. This plate 12 has angular ends 14, 14, serving as finger-holds for an operator and has also upper and lower spring-retained latches 15, 15, likewise slotted as at 16, 16, to straddle the binding posts 4, 4, but each adapted to engage one or the other of the serrations or notches 11 therein to hold the compressor-plate in any predetermined position.

These latches 15, 15, also have angular outer ends 17, 17, for cooperating with the finger-holds 14, 14, respectively when it is desired to withdraw the latches 15, 15 out of engagement with their respective notches 11, 11, against the tension of springs 18, 18, in order to alter the location of the compressor-plate thereby providing for more or less material beneath.

The foregoing being a description of my invention in one practical form of embodiment, its use and operation are so self-evident as to render a more detailed description of operation unnecessary. It may be noted however, that various changes in, and modifications of the arrangement, construction or proportion of parts may be made and substituted for those herein shown and described without in the least departing from the spirit of my invention, and to all such I lay claim so long as they are capable of accomplishing substantially the same results by substantially the same means.

The term "binder back" appearing in the foregoing description, and in the claims following, is intended to indicate that portion (7) of the structure, either flexible or rigid, which connects the front and back covers 9 and 10, respectively, usually by hinge joints; and likewise the term "back-strip" will be understood to mean that flexible and pliable strip of material 1 provided with the rod-receiving loops 2, 2, adapted to be readily stitched, glued or otherwise secured to the inner surface of the binder back 7 as shown.

Having thus described my invention what I now claim and desire to secure by Letters Patent is:

1. In a temporary binder the combination with a flexible back-strip, of flexible rod-receiving loops at opposite sides of said back-strip provided with oppositely disposed notches formed in said loops, binding posts adapted to enter said notches, and a removable locking rod within each of said loops arranged and adapted to engage and removably retain in operative relation the binding posts aforesaid.

2. In a temporary binder the combination with a flexible back-strip, of flexible rod-receiving loops formed in opposite sides of said back-strip provided with oppositely disposed notches in said loops, binding posts adapted to enter at their ends said notches, and a removable locking rod within each of said loops arranged and adapted to engage and removably retain in operative relation the binding posts aforesaid.

3. In a temporary binder the combination with a flexible back-strip, of flexible rod-receiving loops formed integral with said back-strip provided with oppositely disposed notches formed in said loops, binding posts adapted to enter said notches, and a removable locking rod within each of said loops arranged and adapted to engage and removably retain in operative relation the binding posts aforesaid.

4. In a temporary binder the combination with a binder back and suitable covers hinged thereto, of flexible rod-receiving loops at opposite sides of the binder back provided with oppositely disposed notches in said rod-receiving loops, binding posts adapted to enter said notches, and a removable locking rod within each of said loops arranged and adapted to engage the binding posts aforesaid.

5. In a temporary binder the combination with a binder back and covers hinged thereto in a unitary structure, of flexible rod-receiving loops at opposite sides of the binder back provided with oppositely disposed notches in said loops, binding posts adapted to enter said notches, and a removable locking rod within each of said loops arranged and adapted to engage and removably retain in operative relation the binding posts aforesaid.

6. In a temporary binder the combination with a suitable back and covers hinged thereto, of flexible rod-receiving loops at opposite sides of the binder back provided with oppositely disposed notches in said rod-receiving loops, binding posts adapted to enter said notches, a removable locking rod within each of said loops arranged and adapted to engage the binding posts, and a compressor plate adjustably mounted upon said binding posts.

7. In a temporary binder the combination with a flexible back-strip having flexible rod-receiving loops adjacent its edges and oppositely disposed notches in said loops, of binding posts adapted to enter said notches, a removable locking rod within each of said loops arranged and adapted to removably engage the binding posts aforesaid, and a compressor plate adjustably mounted upon said binding posts.

In testimony whereof I affix my signature.

GUSTAVE H. RASMUSON.