

No. 898,245.

PATENTED SEPT. 8, 1908.

C. C. MALTBY.
TEMPORARY BINDER.

APPLICATION FILED OCT. 28, 1905. RENEWED MAR. 13, 1908.

Fig. 1.

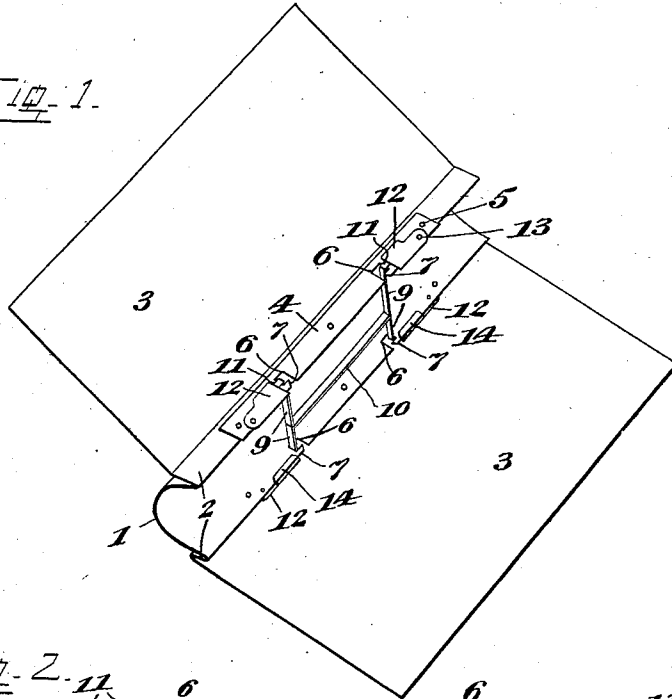


Fig. 2.

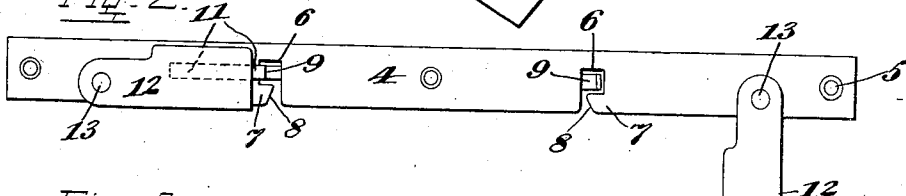


Fig. 3.

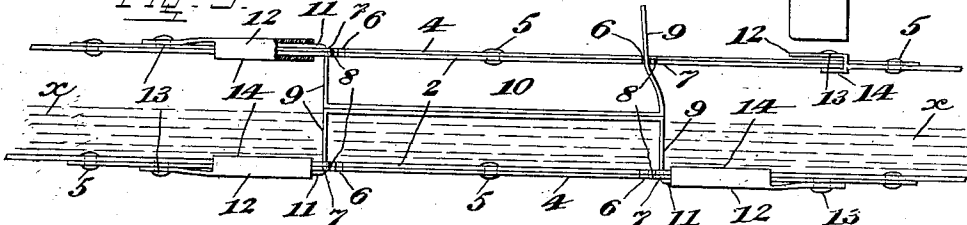


Fig. 4.

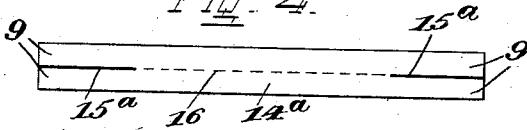
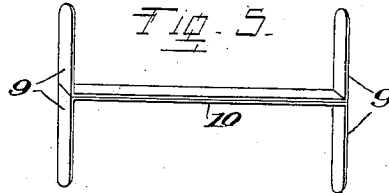
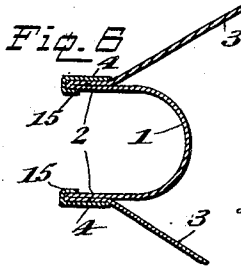


Fig. 5.



Witnesses.
Homer Bradford.
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Inventor.
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by John Elias Jones,
his attorney.

UNITED STATES PATENT OFFICE.

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TEMPORARY BINDER.

No. 898,245.

Specification of Letters Patent.

Patented Sept. 8, 1908.

Application filed October 28, 1905, Serial No. 284,852. Renewed March 13, 1908. Serial No. 420,801.

To all whom it may concern:

Be it known that I, CHARLES C. MALTBY, a citizen of the United States of America, and a resident of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Temporary Binders, of which the following is a specification.

This invention relates to certain improvements in temporary or loose-leaf binders and has for its object to provide a device of this general character of a simple and inexpensive nature and of a compact, strong and durable construction such as is adapted for quick and convenient operation for the removal and insertion of the leaves or sheets when desired and for securely holding the same in place after insertion in the binder.

The invention consists in certain novel features of the construction, combination and arrangement of the several parts of the improved binder, whereby certain important advantages are attained and the device is rendered simpler, cheaper and otherwise better adapted and more convenient for use, all as will be hereinafter fully set forth.

The novel features of the invention will be carefully defined in the claims.

In the accompanying drawings which serve to illustrate my invention—Figure 1 is a perspective view showing a binder constructed according to my invention, one of its sides or covers being thrown back and the leaves or sheets being omitted in order to better illustrate the structure of the operative parts. Fig. 2 is an enlarged detail view showing the face of one of the lateral fastening-members of the improved binder detached from the side or cover. Fig. 3 is a fragmentary view showing the inner sides of the binding devices at the back of the book or binder, the positions of the leaves or sheets being indicated in dotted lines. Fig. 4 is a detail view showing the form of blank from which the leaf or sheet holding clip is produced. Fig. 5 is a perspective view showing the structure of said leaf or sheet holding clip. Fig. 6 is a sectional view taken transversely through the back and binding edges of the sides or covers of the binder and showing certain features of construction to be hereinafter described.

In these views, 1 represents the back of the improved binder and 3, 3 represent the sides or covers of the same, all of these parts being herein shown as integrally formed in a single

piece of suitable flexible board or other material, the sides or covers having binding-edge portions 2, 2 connecting their inner or binding edges with the opposite sides of the back 1. The several parts 1, 2 and 3 of the improved binder are herein shown as produced by forming parallel creases or scores along the central portion of the sheet of board or other material from which said back and sides are made.

4, 4 represent elongated metal plates or fastening members which are held by means of rivets 5, 5 or the like upon the outer side surfaces of the binding-edge portions 2, 2 of the sides or covers 3, 3 and 6, 6 represent notches or indentations cut or otherwise formed in the plates or members 4, 4 near the opposite ends of the same and having portions 8, 8 opening at the forward edges of said plates or members for the insertion in said notches of the ends of the leaf or sheet holding means as will be hereinafter explained. Adjacent to the open ends 8, 8 of the notches 6, 6, there are produced beveled surfaces 7, 7 upon the plates or members 4, 4 for guiding the leaf or sheet holding means into the notches.

The leaf or sheet holding means as herein shown comprises an H-shaped metal clip or member having a central transverse or horizontally-extended body portion 10 from opposite ends of which are oppositely-extended prongs 9, 9, the extremities of which are rounded as seen in Fig. 5 to adapt them for being readily and conveniently passed through openings previously punched in the loose leaves or sheets in a well-known way, after which said extremities will project beyond opposite sides of the leaves or sheets in position for convenient insertion at the open ends 8 of the notches in the binding-strips, as shown in Figs. 2 and 3 of the drawings and particularly at the right in said figures.

The central body portion 10 of the clip or member serves to impart strength and stiffness thereto and to maintain the portions 9, 9 thereof in proper relation. The manner of forming the leaf or sheet holding clip or member is shown in Fig. 4 which represents one of the blanks from which such clips or members are produced. The ends of the metal blank 14^a, as clearly seen in said figure, are longitudinally-slitted as seen at 15^a, 15^a and the portion of said blank between adjacent ends of the slits 15^a is bent or folded over along a

line extended between said slits 15^a as shown by the dotted-line at 16 so as to produce a double ply or thickness from which the body portion 10 of the clip is produced. The slits 15^a, 15^a produce the parts 9, 9 at opposite ends of the body portion and when the device has been centrally folded as above described, the parts 9, 9 at each end of the device will lie flush upon each other and may be bent in opposite directions so as to extend at right-angles to the body portion 10 as seen in Figs. 3 and 5.

12 indicate clamping devices formed of sheet-metal parts pivoted as seen at 13 upon the strips or members 4, 4 adjacent to the notches 6, 6, and adapted, when the projecting ends 9, 9 of the clip or member 10 are bent over outwards as seen at 11 after being passed through notches 6, 6 as above described, to be moved pivotally so as to engage above said outwardly-bent ends 11, 11 in such a way as to securely hold the ends of the leaf or sheet retaining clip or member to the fastening strips or members 4, 4. 14, 14 represent angular edge portions produced on the parts 12 and adapted to take beneath the forward edges of the strips or members 4, 4 and also beneath the corresponding folded edge of the material from which portions 1 and 2 are formed in such a way as to hold the body portions of parts 12 which are upon the outer sides of the strips or members 4, 4, closely pressed down upon the bent ends 11 of the portions 9, 9 of the sheet or leaf holding clip 10. By this means when said ends 11 of the clip or member 10 are bent over on the strips 4, 4, and the parts 12 are swung pivotally to engage upon said bent ends 11, the clip will be securely held in position so that the leaves or sheets cannot be removed from the binder, but when it is desired to remove said leaves or sheets or to insert other leaves or sheets within the binder it is only necessary to pivotally move the clamping parts 12, 12 at one or both strips 4, 4 whereupon the ends 11 may be bent straight as seen at the right in Figs. 2 and 3 so that the said ends of the clip may be withdrawn laterally from the notches 6, 6 of the binding-strips at the open ends 8, 8 thereof.

In order to protect the folded-edge portions of the material at the sides of the back and where the joint between back 1 and portions 2, 2 occurs, I prefer to form the strips or members 4, 4 with bent-over edge portions 15, 15 lapped upon the inner sur-

faces of such material as seen in Fig. 6. By this means the wear of the material from which the back and sides are formed is avoided, especially at the points whereat the clamping devices take beneath said surfaces as shown at 14 on the drawings.

From the above description of my invention it will be evident that the improved binder embodying my improvements is of an extremely simple and inexpensive nature and is especially well adapted for use by reason of the facility with which the loose leaves or sheets may be removed from or inserted in the device, the inexpensive character of the binder adapting it especially for use in holding pamphlets, folders, circulars and the like. It will also be obvious from the above description that the device is capable of considerable modification without material departure from the principles and spirit of the invention and for this reason I do not desire to be understood as limiting myself to the precise form and arrangement of the several parts of the device in carrying out my invention in practice.

Having thus described my invention, what I claim and desire to secure by Letters-Patent is—

A device of the character described comprising an integral piece of flexible material having a pair of parallel folds extended along it at the edge of the opposite sides of its central parts, said central part, between such pairs of parallel folds, forming a back, the portions between the several pairs of parallel folds at each side of said central part forming binding portions and the portions outside said folds forming sides or covers, fastening-strips carried on said binding portions with tapered or expanded throat notches and adapted for engagement with leaf or sheet-retaining means extended across the back and clamping parts pivoted on the fastening-strips, with portions movable in and out of engagement with the sheet-retaining means passed through such tapered-throat notches and other portions bent down for engagement beneath the edges of said fastening-strips to hold the clamping parts in locking positions.

Signed at Cincinnati, Ohio, this 7th day of October, 1905.

CHARLES C. MALTBY.

Witnesses:

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PHIL. G. QUEAL.