No. 841,705. PATENTED JAN. 22, 1907.

L. M. MORDEN.

TEMPORARY BINDER.

APPLICATION FILED MAR. 22, 1902.

Fig. 1.

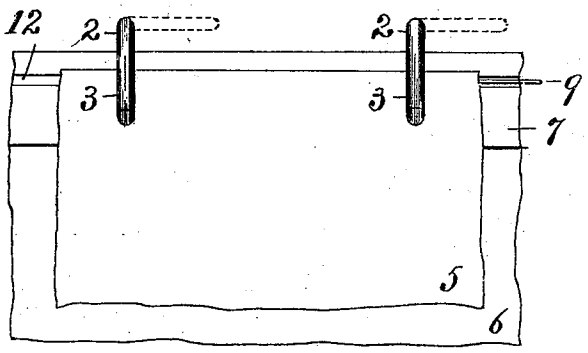
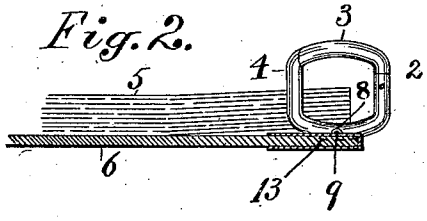


Fig. 2.



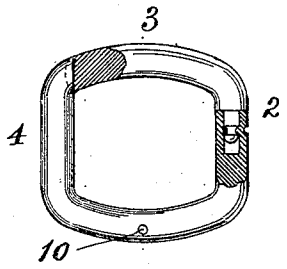
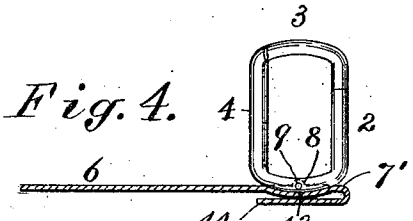


Fig. 3.

Fig. 4.



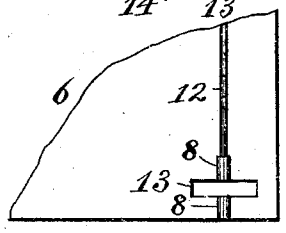


Fig. 5.

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TEMPORARY BINDER.

No 841,705. Specification of Letters Patent. Patented Jan. 22, 1907.

Application filed March 22, 1902. Serial No. 99,399.

To all whom it may concern:

Be it known that I, LUCENA M. MORDEN, a citizen of the United States, residing at 59 Grand street, Waterbury, New Haven county, State of Connecticut, have invented certain new and useful Improvements in Temporary Binders, of which the following is a specification.

The present invention relates to that class of temporary binders in which rings are secured immovably upon the upper surface of a file board or base and provided each with a hinged section, by opening which perforated sheets can be inserted and removed.

The invention is adapted for use in pads, books with double covers, and to files and writing-boards of wood, metal, or other material.

The invention consists in the construction, arrangement, and combination of parts hereinafter described and claimed.

The invention will be understood by reference to the annexed drawings, in which—

Figure 1 is a plan view of my invention applied to a file or writing board. Fig. 2 is a sectional elevation of the same. Fig. 3 is an enlarged side view of one of the rings, parts being broken away to show the construction. Fig. 4 is a sectional view showing the file or writing board and metal base-plate made in one piece with the ring attached, and Fig. 5 is a plan view of a portion of the file or writing board without the ring.

The file-rings are shown of ordinary construction, the body having a member 2, to which the movable section 3 is hinged, and the member 4 to receive the perforated sheets 5, and against which member the hinged section closes. The opening position of the hinged section 3 is shown in dotted lines in Fig. 1. The sheets 5 are shown resting upon a file-board 6. The metal plate 7 forms the upper part or side of a base which may be extended to form the file-board or attached to the edge of a wooden board 6. The metal base may be folded as shown in Fig. 2, so as to slip upon the edge of a wooden board as a kind of clasp, and may be detached and applied thereto at pleasure with or without a fastening device.

In the present invention the rings are fitted to depressions or seats 13 upon the surface of the metal plate and are secured therein by a rod 9, extended through a hole 10 in each ring and held upon the surface of the plate by eyepieces 8 formed thereon. One of the depressions or notched seats 13 is shown in Fig. 6, a longitudinal groove 12 being pressed in the surface of the plate in line with and transverse to the eyepieces 8. The eyepieces are arched upwardly at each side of the seat to hold the pin firmly adjacent to the ring. The recess or seat 13 is so proportioned that the insertion of the pin 9 through the hole 10 in each ring and beneath the eyepieces 8 clamps the bottoms of the rings firmly upon the plate and holds them rigidly thereon in an upright position. The hinged section of the ring may thus be opened and closed or the sheets shifted from one side of the ring to the other without changing the position of the ring, as the same are firmly held upon the base-plate. A seat 13 is formed in the base-plate in the position desired for each of the rings to be mounted thereon, and the seats may be in the form of depressions, as shown in Fig. 4, or as recesses cut out of the metal, as shown in Fig. 5, or in any other suitable way that will brace the rings and hold them in an upright position. The plate 7 is preferably formed with the depression 12 for the rod 9, as it not only holds the rod and rings from any lateral movement upon the plate, but reduces the elevation required for the eyepieces 8, by which the rod is retained with the rings upon the plate.

In the form shown in Fig. 4 the file or board 6 is made of sheet metal with the edge folded back upon the body, as shown at 14. The portion of the plate in which the seats 13 are formed is marked 7′ in this figure. It is obvious that the plate 7 may be attached to the under cover of a book-binding, so that the rings may be inclosed between the upper and under covers and a flexible back.

The ring shown in Fig. 3 has parallel sides; but it will be understood that the shape of the ring is immaterial in the present invention, provided each ring has an upper hinged section and a hole 10 through the body of the ring to engage the rod 9.

It will be seen that the various parts of the structure can be readily assembled by placing the rings successively in the seats 13 and threading the rod 9 successively through the same beneath the eyepieces 8. The construction thus greatly facilitates the manufacture of such temporary binders.

Having thus set forth the nature of the invention, what is claimed herein is—

1. In a loose-leaf binder, the combination, with a supporting plate or base having a series of seats 13 extended below its flat upper surface transverse to the edge of the plate with a pair of eyepieces 8 one at each side of and above the bottom of each seat, of a rod 9 fitted movably to the eyepieces and across the said seats, and a series of file-rings secured in the said seats, and having each an upper hinged section and a hole 10 through the body of the ring at the bottom thereof adapted to engage the rod 9 and to hold the ring rigidly in an upright position upon the plate.

2. In a loose-leaf binder, the combination, with a supporting plate or base having a series of seats 13 extended below its flat upper surface transverse to the edge of the plate with a pair of eyepieces 8 one at each side of and above the bottom of each seat, and the groove 12 in the plate in line with the eyepieces as set forth, of a rod 9 fitted movably to the groove 12 and eyepieces and extended across the said seats, and a series of file-rings secured in the said seats and having each an upper hinged section and a hole 10 through the body of the ring at the bottom adapted to engage the rod 9 and to hold the ring rigidly in an upright position upon the plate.

3. In a loose-leaf binder, the combination, with a plurality of paper-holding rings formed with an upper hinged section, of the file-board 6 having the metallic plate 7 made in folded form and fitted to the edge of the board as a clasp, the folded metal plate being provided with a seat for each of the said rings and means for securing the rings rigidly in an upright position in the said seats.

4. In a loose-leaf binder, the combination, with a supporting-plate 7 having a seat 13 extended below its flat surface transverse to the edge of the plate, with a pair of eyepieces 8 at each side of and above the bottom of such seat, of the rod 9 fitted movably to the eyepieces and across the said seats, and a file-ring secured in the said seat and having an upper hinged section and the hole 10 through the body of the ring at the bottom thereof, adapted to engage the rod 9 and to hold the ring rigidly in an upright position upon the plate.

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