No. 851,301. PATENTED APR. 23, 1907.

C. É. MOREHOUSE.

SEPARABLE LOOSE LEAF BOOK OR LEDGER AND BINDER THEREFOR.

APPLICATION FILED JUNE 22, 1904.

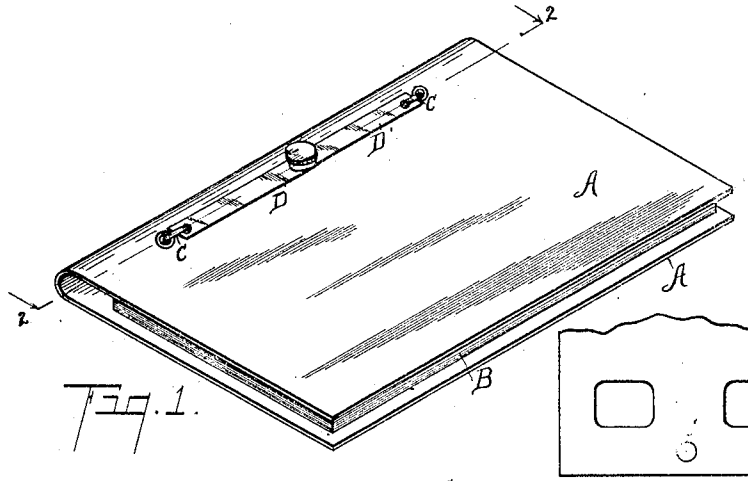
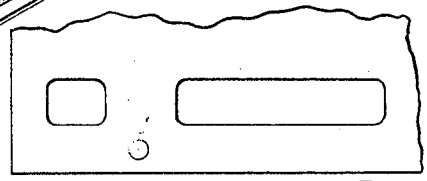


Fig. 1.



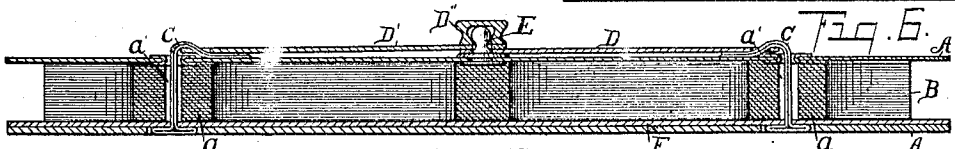


Fig. 2.

Fig. 6.

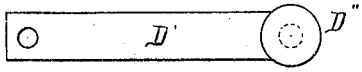


Fig. 3.

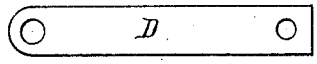


Fig. 4.

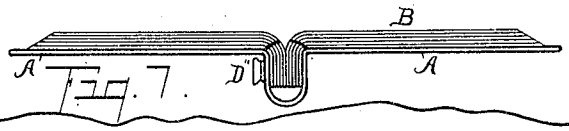


Fig. 7.

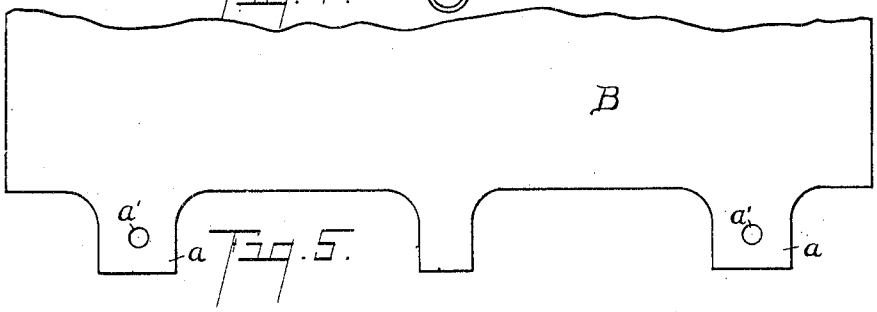


Fig. 5.

Witnesses:
Otto Q. Earl
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Att'y.

UNITED STATES PATENT OFFICE.

CYRUS E. MOREHOUSE, OF NEWARK, NEW JERSEY.

SEPARABLE LOOSE-LEAF BOOK OR LEDGER AND BINDER THEREFOR.

No. 851,301. Specification of Letters Patent. Patented April 23, 1907.

Application filed June 22, 1904. Serial No. 213,704.

To all whom it may concern:

Be it known that I, CYRUS E. MOREHOUSE, a citizen of the United States, residing at the city of Newark, county of Essex, State of New Jersey, have invented certain new and useful Improvements in Separable or Loose-Leaf Books or Ledgers and Binders Therefor, of which the following is a specification.

This invention relates to improvements in separable or loose leaf books or ledgers and binders therefor.

Heretofore much difficulty has been experienced in constructing loose leaf ledgers or books which are provided with detachable binders, which are designed to clamp upon the leaves, in constructing the clamping devices so that the books will open flat without providing specially constructed hinges or hinged extensions for the leaves.

It is the object of this invention to provide an improved binder means for a loose leaf book or ledger, and to provide such a structure in which, when the leaves are so clamped in position, they will readily open into the flat open position without providing hinges or hinged extensions for the leaves.

Further objects will definitely appear in the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification.

The invention is clearly defined and pointed out in the claims.

A structure embodying the features of my invention is clearly illustrated in the accompanying drawing forming a part of this specification, in which—

Figure 1 is a perspective view of my improved separable leaf book or ledger. Fig. 2 is an enlarged detail sectional view of the same taken on line 2—2 of Fig. 1, looking in the direction of the little arrows at the end of the line. Fig. 3 is an enlarged plan view of the clamping lever D′. Fig. 4 is an enlarged plan view of the clamping lever D. Fig. 5 is an enlarged detail plan view of one of the leaves. Fig. 6 is an enlarged detail plan view of a modified construction of one of the leaves. Fig. 7 is an end elevation view of my improved separable leaf book or ledger shown open.

In the drawing similar letters of reference refer to similar parts throughout the several views.

Referring to the lettered parts of the drawings, A A represent the covers, which may be hinged together at the back.

B represents the leaves of my improved separable leaf book or ledger. The leaves B are formed with the extensions *a* at the back having perforations *a′* therein.

A clamping strip F, preferably of metal, is secured to one of the covers. Through this clamping strip, fasteners C are arranged. These fasteners C are preferably the ordinary brass paper fasteners in common use. The opposite cover is provided with eyelets or perforations to receive the fasteners C up through the same. These fasteners are arranged to pass through the perforations *a′* in the extensions *a* of the leaves B. The fasteners C being formed of flexible material, after inserting through the leaves and covers as stated, are retained in position by the clamping levers D D′. The clamping levers D D′ are perforated at their outer ends and are adapted to engage the ends of the fasteners C C loosely. The ends of the fasteners are inserted upwardly through the perforations in the levers D D′ and the levers are then turned completely over endwise and so fold the ends of the fasteners under, and thereby retain them securely in place. It is evident that as the clamping levers are forced down into position, tension is applied to the fasteners.

The inner end of the clamping lever D is adapted to engage a button stud E and a snap button D″ member at the inner end of lever D is provided to engage the stud E, so that by slipping the clamping levers upon the fasteners C and securing their inner ends, the parts are held securely and firmly in position. The fastener for the ends of the levers is like a snap glove fastener now in common use. While it possesses merits in this relation, I am aware that other means can be used.

By forming the leaves B with the extensions *a* at the rear, or by cutting out a portion of the same, as shown in the modified construction of Fig. 6, the tendency of the book to close when opened is entirely overcome and the entire writing surface of the leaf will lie flat, and the necessity for a special hinged extension is entirely overcome. I make this remark because it is common to supply cloth hinges for these leaves. These leaves are of course adapted to use with any clamp binder. I find them especially valuable to use with temporary binders of the

clamping class with the manufacture of which I am familiar.

I have illustrated and described my invention in the form preferred by me on account of its simplicity and convenience in use. I am aware, however, that it is capable of considerable structural variation without departing from my invention.

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

1. In a separable leaf ledger, the combination of covers A A; leaves B having perforated hinge extensions at the rear; a plate F secured to one of said covers; flexible fasteners C carried by said plate, said fasteners being passed through the perforations in said leaves and through suitable perforations in the opposite cover; clamping levers D D' adapted to engage said fasteners and fold the same downwardly; and means for detachably securing said levers in position, all co-acting for the purpose specified.

2. In a separable leaf ledger, the combination of suitable covers; leaves B having perforated hinge extensions at the rear thereof; flexible fasteners carried by one of said covers, said fasteners being passed through the perforations in said leaves and through suitable perforations in the opposite cover; clamping levers D D' engaging said fasteners; and means for detachably securing said clamping levers in position, all co-acting for the purpose specified.

3. In a temporary binder, the combination of suitable binding pieces; flexible fasteners carried by one of said binding pieces, said fasteners being arranged through suitable perforations in the other binder piece; levers arranged to engage said fasteners for applying tension thereto and retaining them in position; and means for retaining said levers in position, as specified.

4. In a separable leaf book or ledger, the combination of leaves partially cut away at the point of flexure forming strap-like hinge portions; and a binder adapted to clamp said leaves back of said cut-away portion, for the purpose specified.

In witness whereof I have hereunto set my hand and seal in the presence of two witnesses.

CYRUS E. MOREHOUSE.

Witnesses:
PHILIP A. BOWEN,
ROY C. BOWEN.