

No. 798,650.

PATENTED SEPT. 5, 1905.

H. R. WOOD.
LOOSE LEAF BINDER.
APPLICATION FILED NOV. 26, 1904.

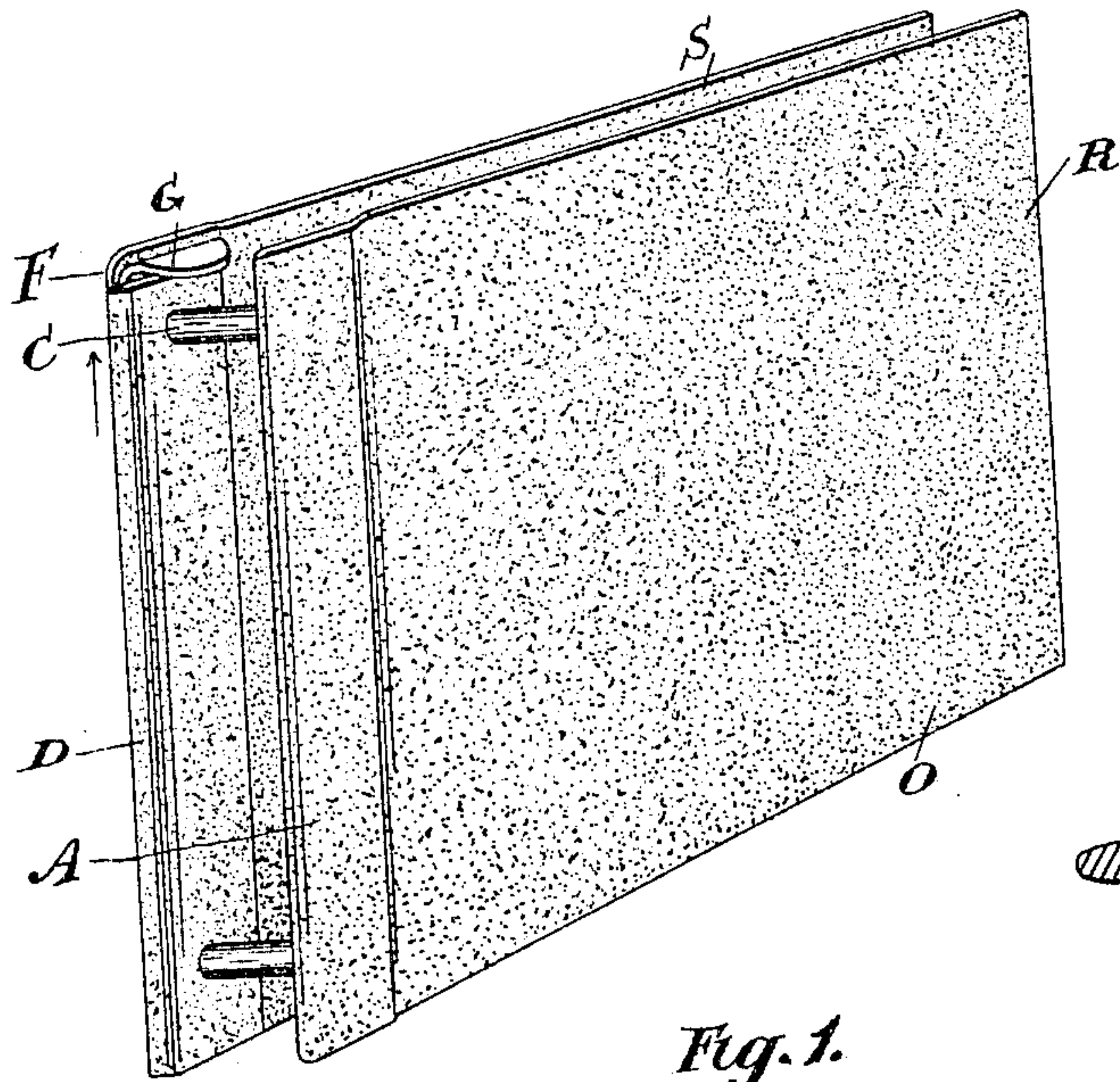


Fig. 1.

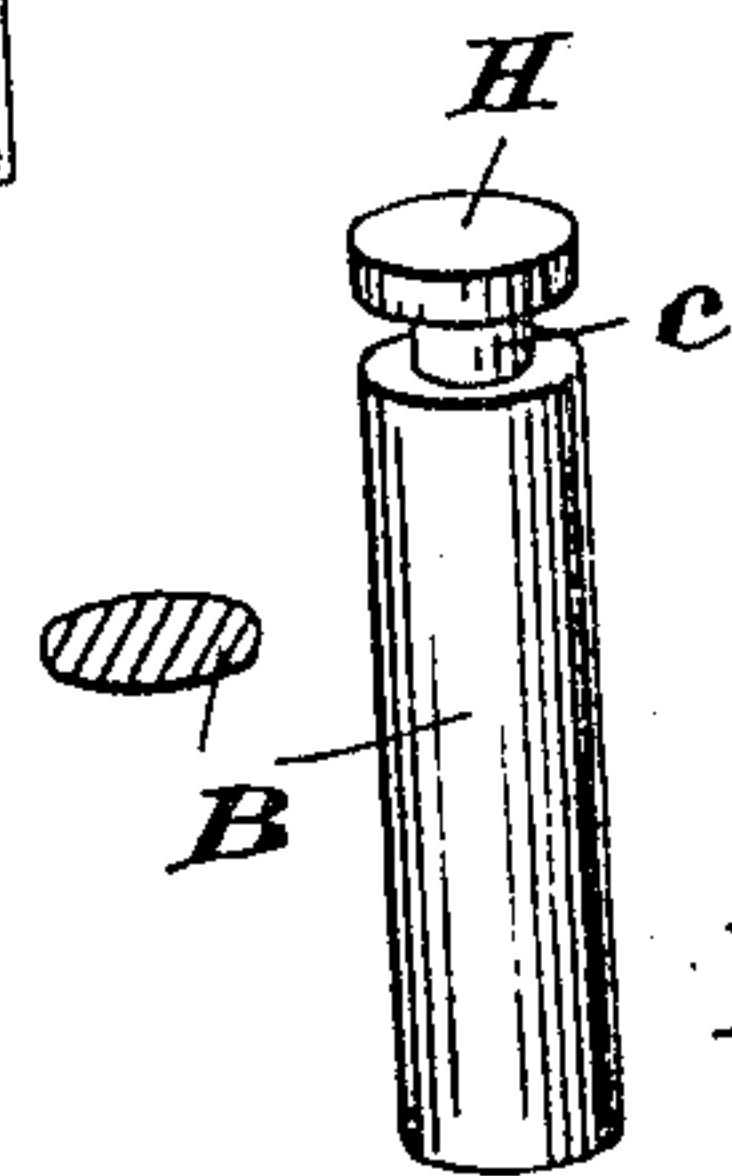


Fig. 4.

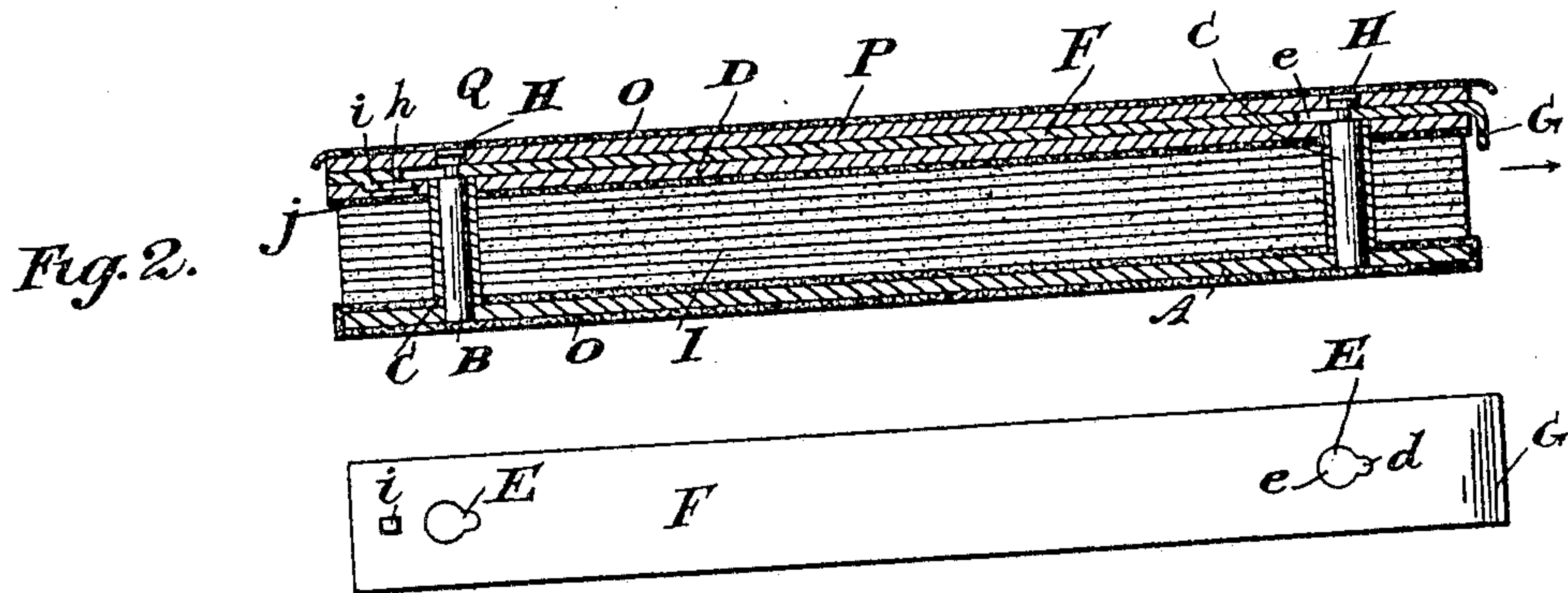


Fig. 2.

Fig. 3.

Witnesses:
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UNITED STATES PATENT OFFICE.

HEW RITCHIE WOOD, OF TORONTO, CANADA.

LOOSE-LEAF BINDER.

No. 798,650.

Specification of Letters Patent.

Patented Sept. 5, 1906.

Application filed November 25, 1904. Serial No. 234,182.

To all whom it may concern:

Be it known that I, HEW RITCHIE WOOD, salesman, a subject of the King of Great Britain, residing in the city of Toronto, county of York, Province of Ontario, Canada, have invented certain new and useful Improvements in Loose-Leaf Binders, of which the following is a specification.

My invention relates to improvements in loose-leaf binders; and the object of my invention is to provide a cheap, reliable, and durable loose-leaf binder that may be used for various purposes, such as binding the leaves of a book together and binding together sample sheets of paper, cloth, leather, &c.

Another object is to provide a simple locking and unlocking mechanism; and it consists, essentially, of a first plate provided with received posts, the second plate provided with posts that receive said received posts, a plate that engages with said received posts, so as to lock said plates together, and a back plate provided with holes in alinement with the path of movement of said received posts, as hereinafter more particularly explained.

I preferably use a front and back cover with my binder, but do not confine myself to using same.

Figure 1 is a general perspective view of my loose-leaf binder, showing same provided with front and back covers. Fig. 2 is an enlarged vertical central section through my binder, showing construction of same and showing material held therein. Fig. 3 is a plan view of the lock-plate, and Fig. 4 is an enlarged perspective view of the preferred form of received post.

In the drawings like characters of reference indicate corresponding parts in each figure.

A is the first plate, and same is provided with the received posts B, suitably secured thereto, which move within the receiving-posts C, suitably secured to the second plate D. As will be seen from Fig. 2, the received posts B preferably pass through the second plate D and are provided with necks *e*, around which fit the constricted portion *d* of the slots E, formed in the lock-plate F, which moves adjacent to the second plate D. One end of the lock-plate F is preferably turned so as to provide a convenient end G by means of which said plate may be pulled out or shoved in. In order to unlock the binder, the lock-plate F is pulled in the direction indicated by arrow, so that the constricted portion *d* of the slots E will move out of the path of move-

ment of the heads of the posts B, and the enlarged portion *e* of said slots will move so that the head H of said received posts may be drawn out therethrough. The binder being thus unlocked, the leaves I may be removed from the posts C. Of course if the binder is empty same may be filled in the usual manner. In order to prevent the enlarged portions *e* of the slots E moving too far, and thus interfering with the free movement of the heads H, I provide any suitable means for limiting the outward movement of said lock-plate. My preferred form of construction for this purpose is as follows: Formed in one side of the second plate D is a slot *h*, in which operates the lug *i*, secured to or forming part of the lock-plate F. When the enlarged portions *e* of the slots E are in position to permit of the passage of the heads H therethrough, the lug *i* abuts against the end *j* of the slots *h* and prevents the further movement of the lock-plate F.

As will be seen from Figs. 1 and 2, I preferably cover my binder and the front and back covers thereof with leather O. In order to prevent the undue wear of the leather inclosing the second plate D and lock-plate F, I provide a back plate P, around which the leather is suitably secured. This back plate P may be made of metal or press-board or any other suitable material and is provided with holes Q in alinement with the path of movement of the heads H of the received posts B. As will be seen from Fig. 2, the thickness of the plate P is greater than the thickness of heads H, thus preventing said heads from coming in contact with the leather.

My preferred form of construction of the locking-plate F and the received posts B, I have already described, whereby the binder is locked or unlocked. Upon reference to Fig. 4 it will be seen that the received post there shown is oval in cross-section. From this it will be understood that the receiving-post will be likewise oval in cross-section. I of course may make the posts B and C of any shape desired.

Suitably secured to the first plate A is the front cover R, and suitably secured to the second plate D is the back cover S.

I hereby claim that I may make changes in the construction of my loose-leaf binder without departing from the spirit of my invention.

What I claim as my invention is—

1. In a loose-leaf binder, the combination

with the second plate, and receiving-posts stationarily secured thereto, of the first plate, received posts, stationarily secured thereto, received by said receiving-posts and extending beyond attached ends of said receiving-posts and provided with necks *c* and heads *H*; the sliding plate operating adjacent to said second plate and provided with slots constructed so that it will engage with said heads when at normal, and when moved to the limit of its unlocking movement, said heads may pass therethrough, thus unlocking the said receiving and received posts; means for limiting the unlocking movement of said sliding plate, and a back plate, provided with holes in alinement with the path of movement of said received posts, held on the outer side of said sliding plate.

2. In a loose-leaf binder, the combination with the second plate, and receiving-posts stationarily secured thereto, of the first plate, received posts, stationarily secured thereto, received by said receiving-posts and extending beyond attached ends of said receiving-posts and provided with necks *c* and heads *H*; the sliding plate operating adjacent to said second plate and provided with slots constructed so that it will engage with said heads when at normal, and when moved to the limit of its unlocking movement, said heads may pass therethrough, thus unlocking the said receiving and received posts; one end of said sliding plate being bent so that it may be conveniently pulled out or shoved in; means for limiting the unlocking movement of said sliding plate,

and a back plate, provided with holes in alinement with the path of movement of said received posts, held on the outer side of said sliding plate.

3. In a loose-leaf binder, the combination with the second plate provided with a slot and receiving-posts, stationarily secured thereto, of the first plate, received posts, stationarily secured thereto, received by said receiving-posts and extending beyond attached ends of said receiving-posts and provided with necks *c* and heads *H*, the sliding plate operating adjacent to said second plate and provided with slots constructed so that it will engage with said heads when at normal, and when moved to the limit of its unlocking movement, said heads may pass therethrough, thus unlocking the said receiving and received posts, one end of said sliding plate being bent so that same may be conveniently pulled out or shoved in, and a lug secured to or forming part of said sliding plate and operating in the slot formed in said second plate so as to limit the unlocking movement of said sliding plate, and a back plate provided with holes in alinement with the path of movement of said received posts, held on the outer side of said sliding plate.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HEW RITCHIE WOOD.

Witnesses:

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L. G. SHARPE.