

No. 767,161.

PATENTED AUG. 9, 1904.

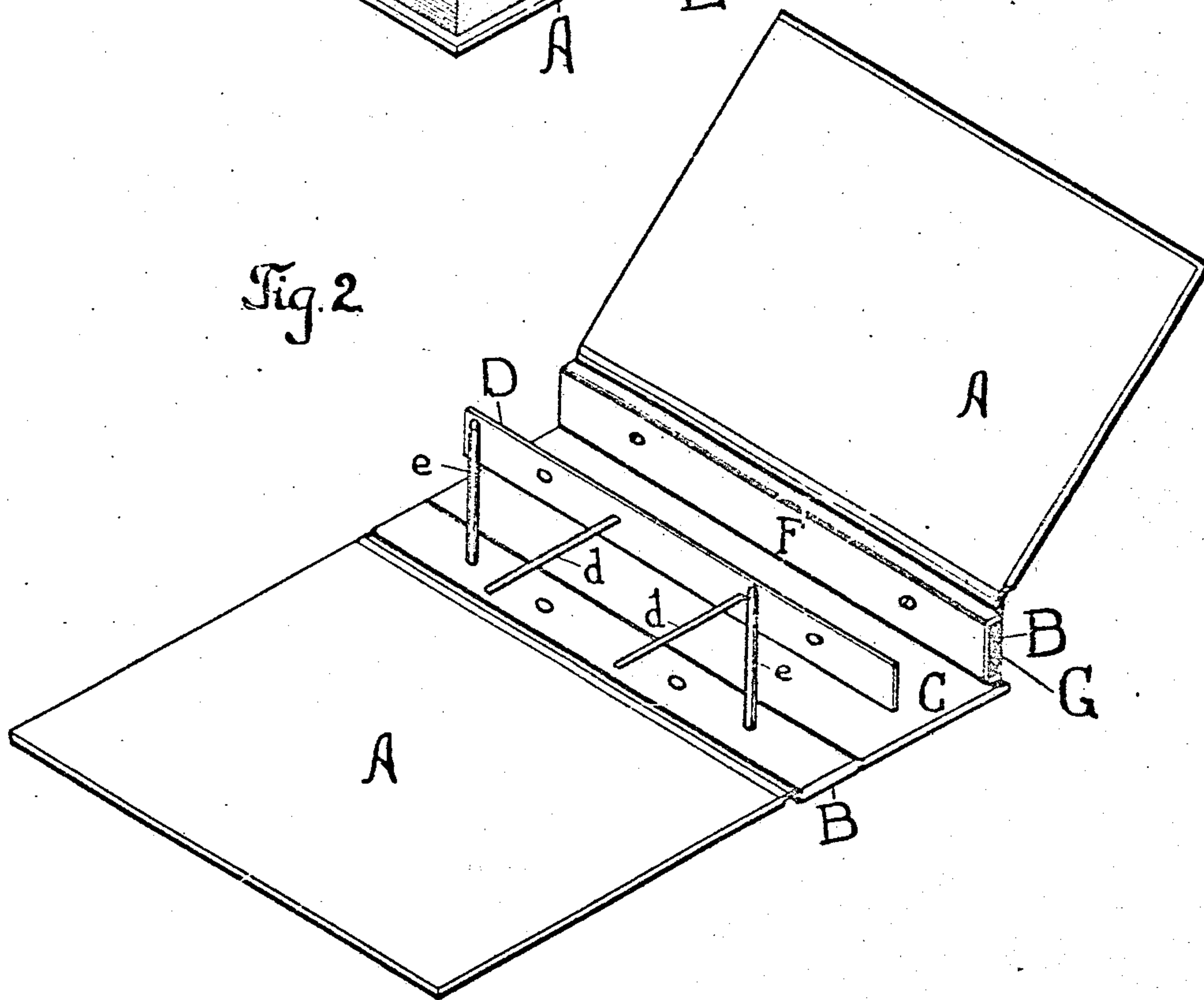
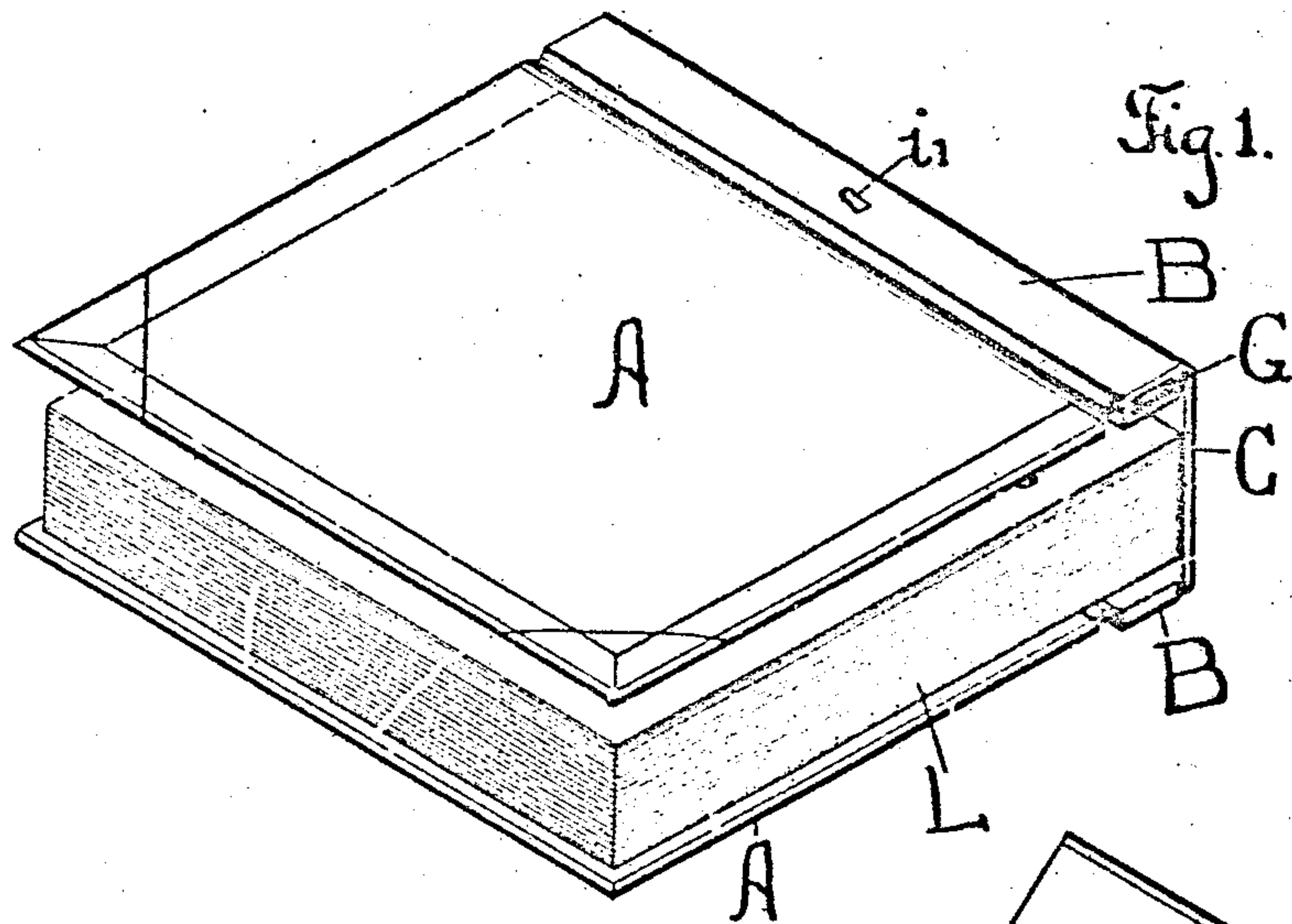
H. J. MOORE.

LOOSE LEAF BINDER FOR LEDGERS OR OTHER SIMILAR PURPOSES.

APPLICATION FILED SEPT. 30, 1903.

NO MODEL.

3 SHEETS—SHEET 1.



Witnesses:

Osborne F. Gurney  
Clara M. Sinner.

Inventor:

Henry J. Moore  
By Wm. H. Cooley, Atty.

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3 SHEETS—SHEET 2.

Fig. 3.

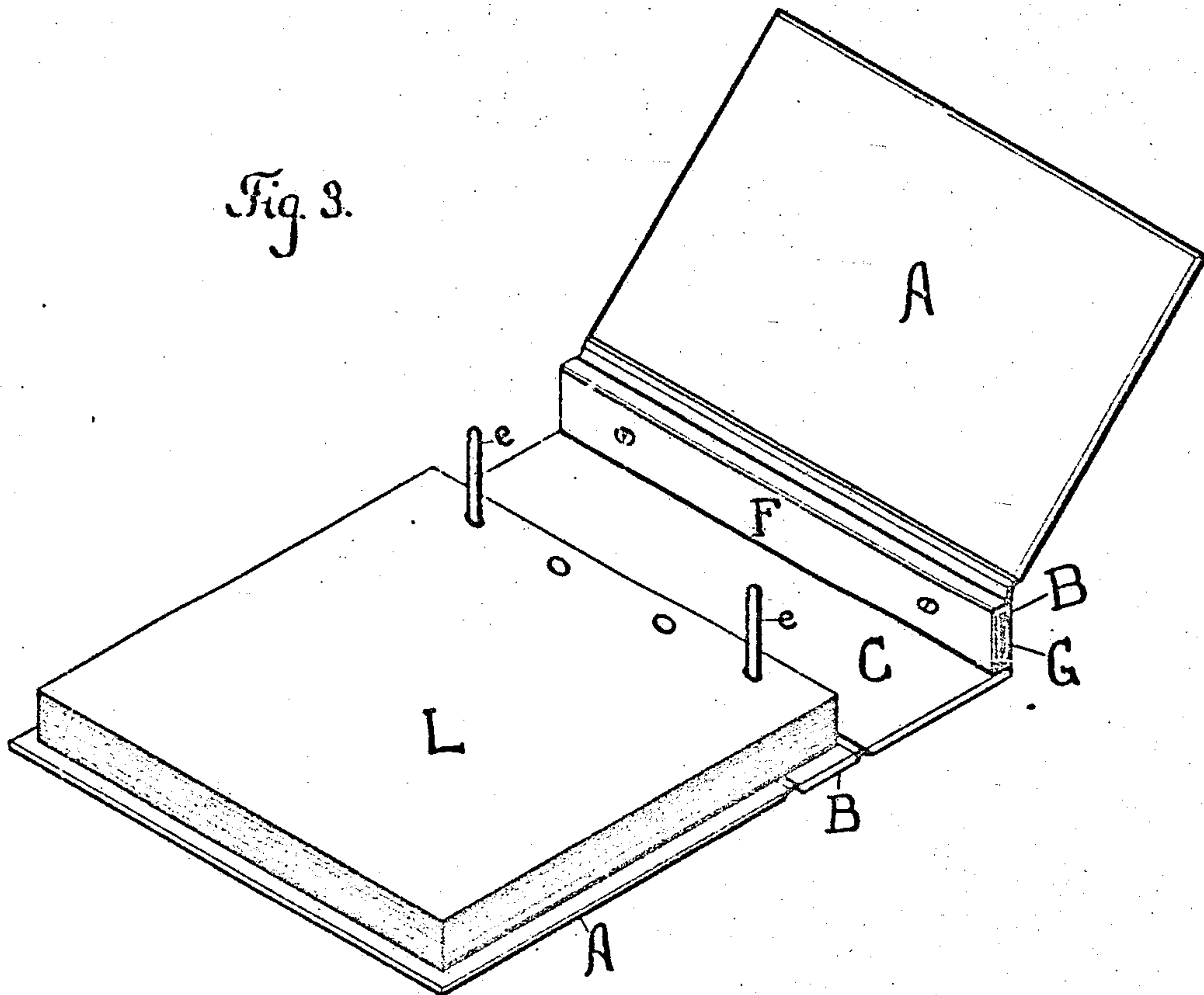
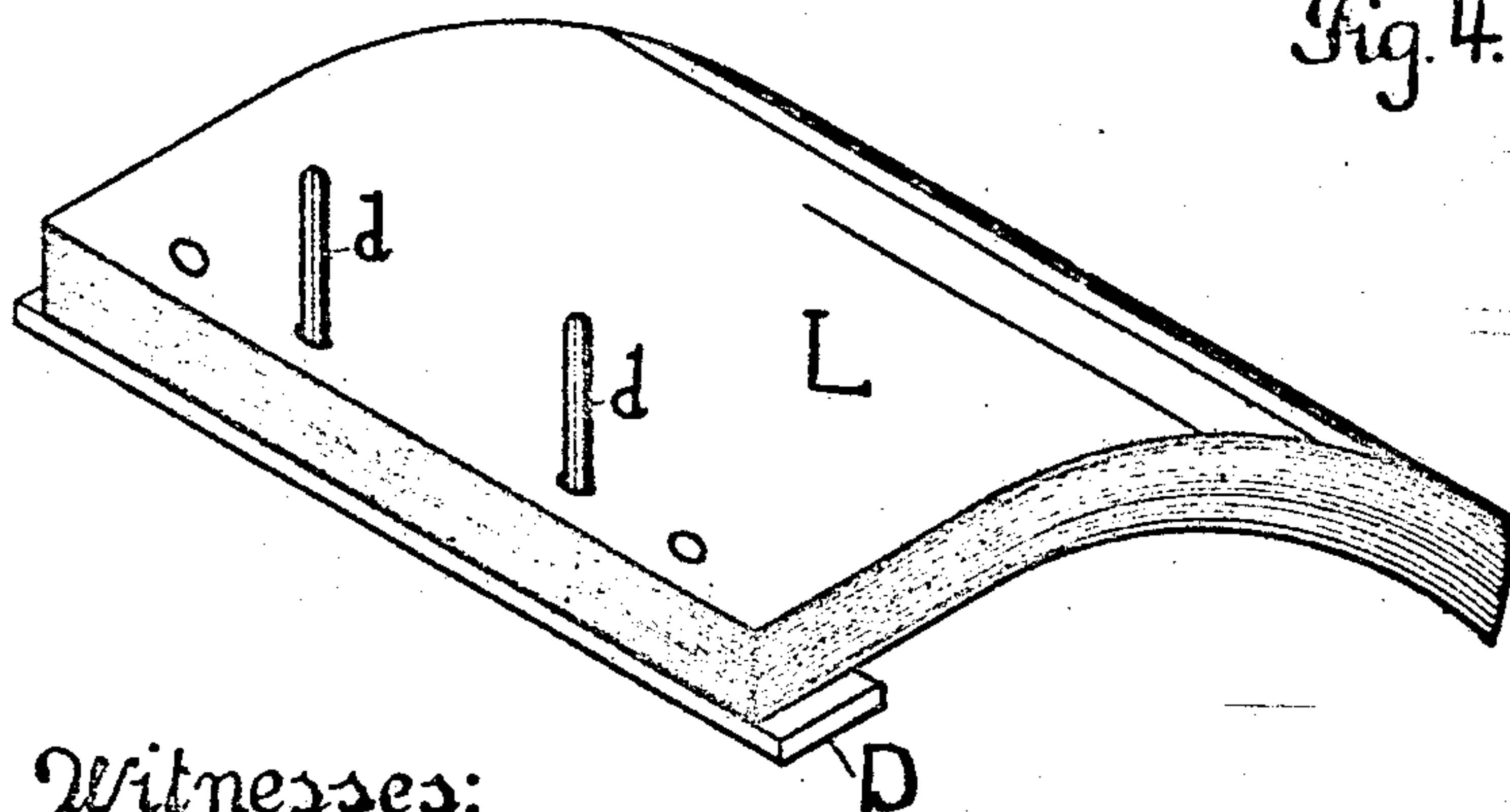


Fig. 4.



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3 SHEETS-SHEET 1

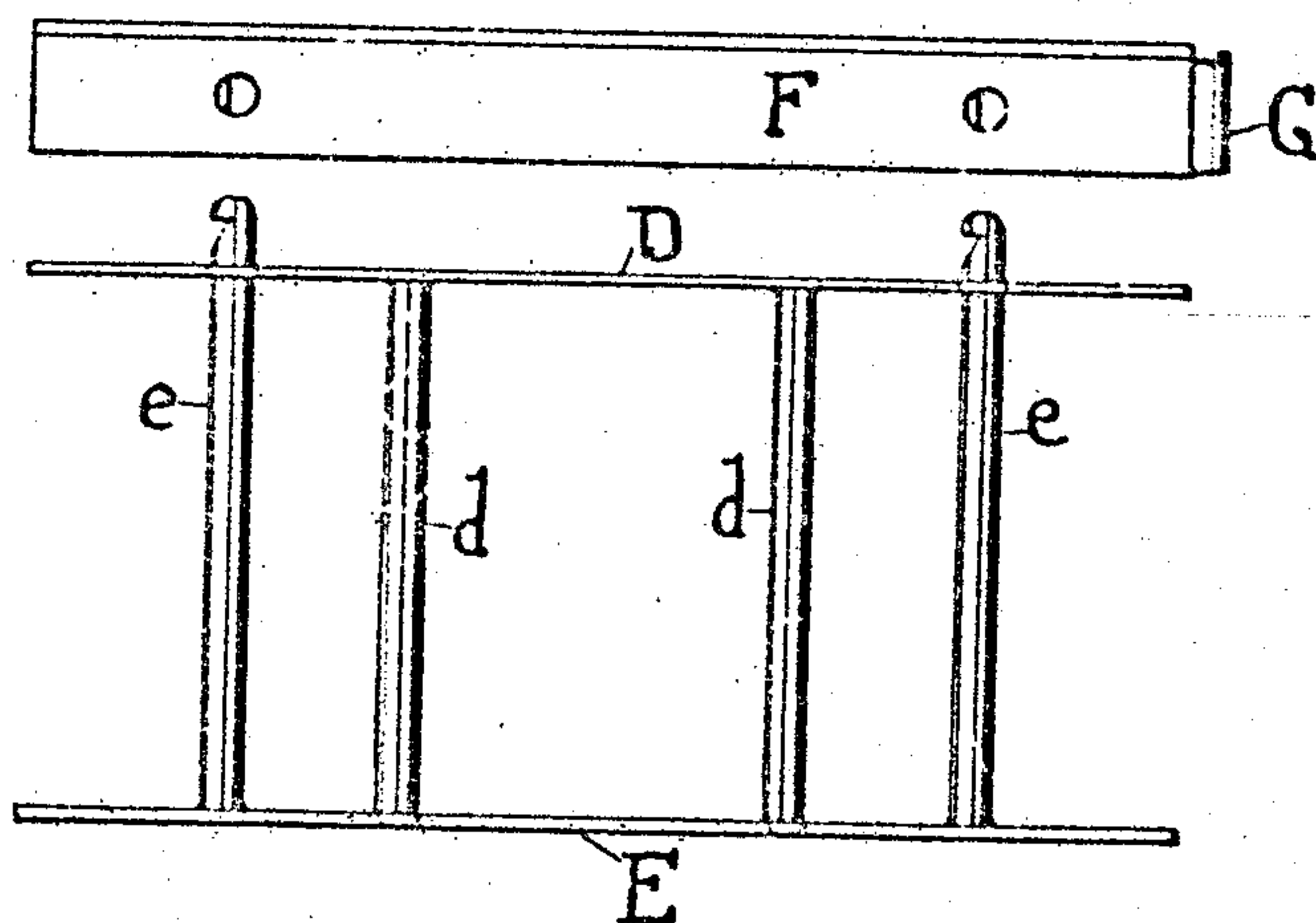


Fig. 5.

Fig. 6.

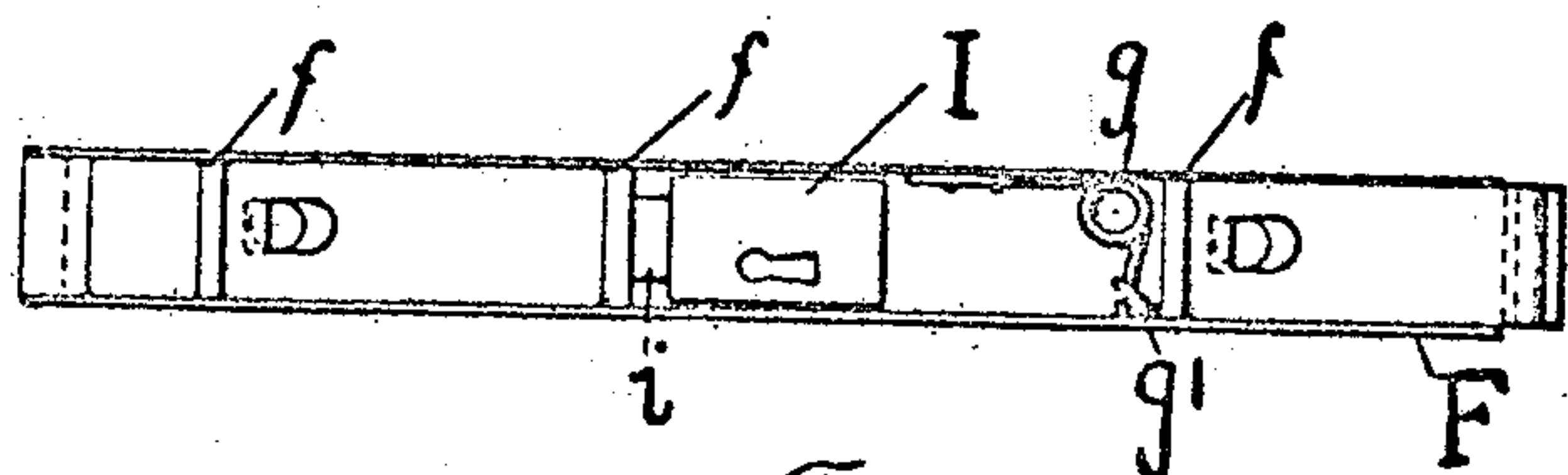
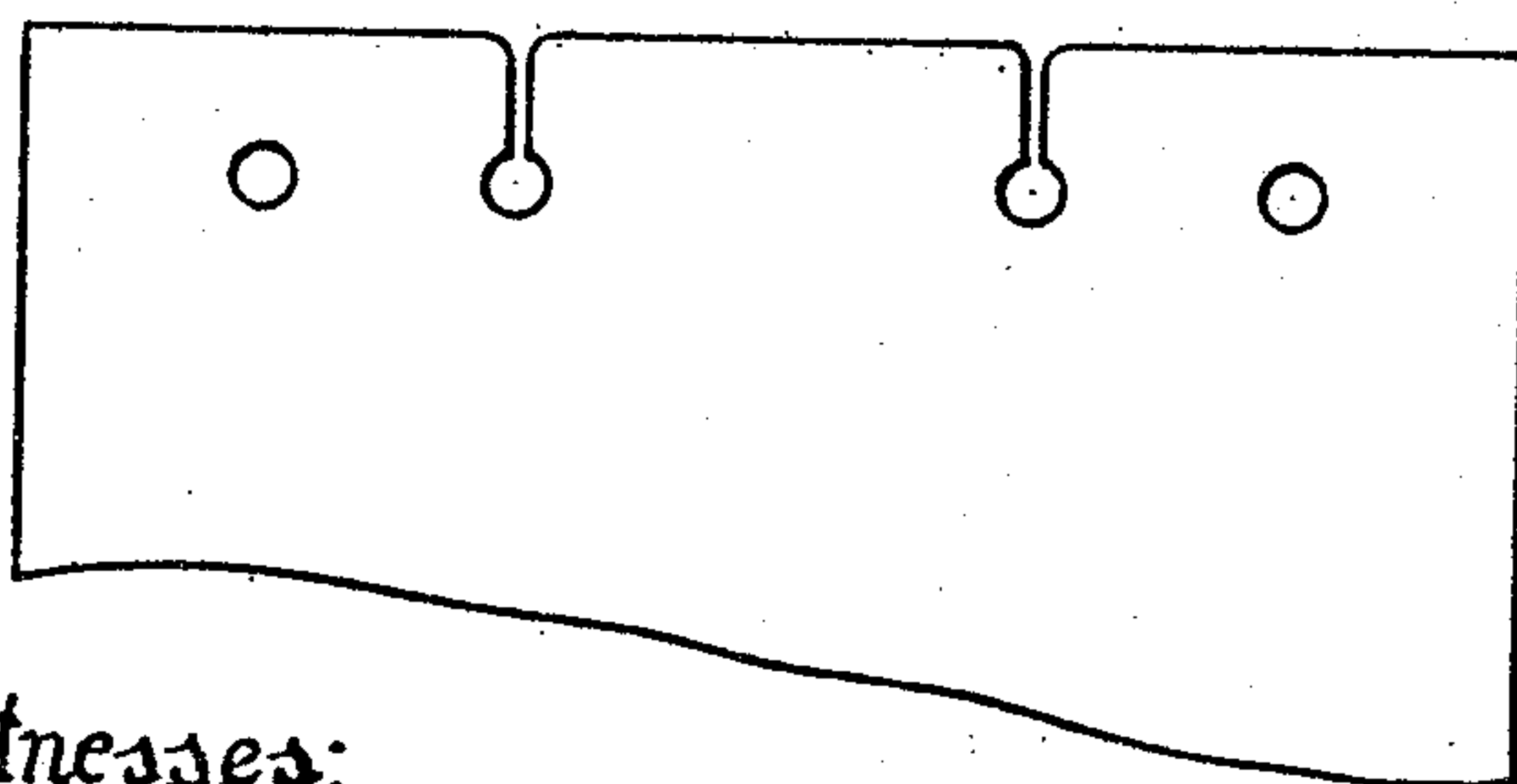
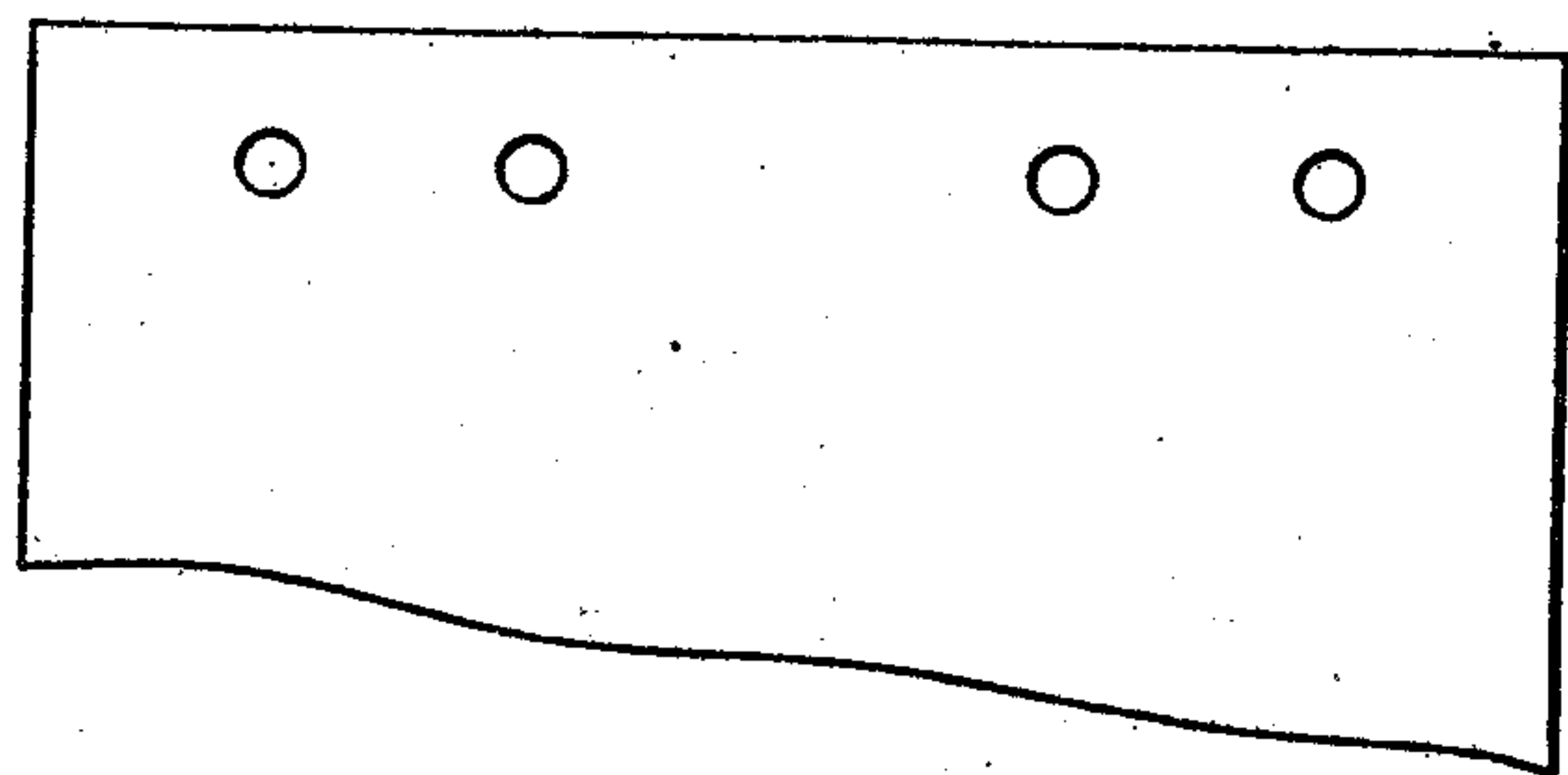


Fig. 7.

Fig. 8.



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No. 787,161.

Patented August 9, 1904

# UNITED STATES PATENT OFFICE.

HENRY J. MOORE, OF ROCHESTER, NEW YORK.

## LOOSE-LEAF BINDER FOR LEDGERS OR OTHER SIMILAR PURPOSES.

SPECIFICATION forming part of Letters Patent No. 787,161, dated August 9, 1904.

Application filed September 10, 1903. Serial No. 178,110. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY J. MOORE, a citizen of the United States, residing at Rochester, in the county of Monroe and State of New York, have invented an Improved Loose-Leaf Binder, of which the following is a specification.

The object of my invention is to provide a loose-leaf binder of improved construction from which the leaves can be removed when desired only by the person having in possession the key for operating the lock which I make use of to securely hold the parts of my binder in such a way that the leaves are securely held together. There may be used in my improved binder leaves having either open or closed apertures, or such leaves may have both open and closed apertures.

Another essential feature of my present invention consists in such an arrangement and cooperation of the parts of my binder as will readily permit of the dividing of the leaves contained in the binder or book at any desired point therein, while retaining the leaves on each side of such point in perfect registry with themselves, and by suitable studs or posts carried by mechanisms which cooperate when the two divisions of the leaves are put together in the proper place to secure a perfect registry of the leaves in each division thereof.

In the accompanying drawings I have shown my invention embodied in a book for binding loose leaves and the leaves are shown blank, as the style of ruling or the character and arrangement of the memorandum to be put upon the leaves forms no part of my present invention.

The accompanying drawings, illustrating my invention, are as follows:

Figure 1 is a view in perspective of a book complete and nearly filled with leaves. Fig. 2 is a similar view of such a book opened out and without any leaves in it and with the removable posts or studs withdrawn from their operative position and shown as lying loosely within the book. Fig. 3 shows in a similar view a book opened out and with a portion of the leaves thereof retained within the book, while the removable studs or posts and a

second portion of such leaves has been removed therefrom, such second portion of the leaves and the removable studs or posts for holding the same in registry or alignment being shown as detached or removed in Fig. 4, in which figure they are also shown turned over the other side up for the purpose of holding them upon the removable posts. Fig. 5 shows in elevation the removable and fixed posts and their supporting mechanisms and with the locking mechanism immediately above these posts turned up on edge so as to show the relation and cooperation of the parts. Fig. 6 is a top view of the locking mechanism with the cap-plate thereof removed. Figs. 7 and 8 show different styles of leaves which may be used in my binder.

Throughout the drawings similar letters refer to similar parts.

Referring to the drawings, A A constitute the covers of a book in accordance with my invention. Flexibly connected to these covers A A are seen the connecting parts B B, which in turn are flexibly connected to the back proper, C. These connecting parts B B carry the mechanisms for supporting, guiding, and locking the fixed and movable posts of my binder, as will be explained, all of such parts except the studs being suitably covered, so as to present a neat and tasty appearance. The lower connecting part B has secured therein a plate E, from which there extend upward the two fixed posts *e e*, as shown more fully in detail in Fig. 5. A plate D has similarly secured thereto the two removable posts *d d*, as indicated in Figs. 2, 4, and 5. This plate D has two holes therein for insertion over the fixed posts *e e*, as indicated in Figs. 2 and 5. The posts *e e* have notches cut in their upper ends, as indicated in Figs. 2, 3, and 5, and these notches are arranged to be engaged by the sliding plate G. (Seen partially in Fig. 5 and shown more fully in Fig. 6.) The under section of the case of the locking mechanism consists of a channeled plate F, which has two holes therein arranged to register with the fixed posts *e e*. As indicated in Fig. 6, the plate G is arranged to slide freely in the channel-plate F and to be kept at the bottom



*f f f*. In this plate G are arranged two holes square at their left-hand ends and rounded at their right-hand ends, as indicated in Fig. 6. A spring *g*, secured to the plate F and engaging a little projection *g'* turned up from the plate G, operates to hold the plate G in its extreme right-hand position, in which position this projection *g'* engages the right-hand cross-bar *f*, as shown in Fig. 6. This plate G carries rigidly secured thereto a lock I, the bolt of which, *i*, when thrown, as indicated in Fig. 6, engages the middle one of the cross-bars *f*, thus preventing a movement of the plate G to the left. When the plate G is in its extreme right-hand position, as shown in Figs. 5 and 6, such plate engages at the square left-hand ends of the openings therein the notches in the upper ends of the fixed posts *e e*—that is, when plate F is down in its operative position and next to or nearly in contact with the plate D, which is the normal position of the parts when the book is closed. When the bolt of the lock is thrown, as shown in Fig. 6, the locking mechanism F cannot be withdrawn from the fixed posts *e e*. Upon withdrawing the bolt *i* in the usual way by means of a suitable key the plate G may be forced to the left, so as to be disengaged from the posts *e e*, and such plate F may be lifted free from such posts *e e*, and then the plate D, carrying the posts *d d*, may be removed with any desired number of the leaves thereon and the book thus divided at any desired point and any leaves removed or others inserted.

In the upper connecting part B there is shown a keyhole *i'* for the insertion of the key into the lock I. This keyhole *i'* in the connecting part B is arranged to register with the keyhole in the lock I when the plate G is in its right-hand position, which is the normal position for this plate when not forcibly moved to the left by the hand of the operator. Upon the insertion of the key within the keyhole *i'* the plate G may be operated, and then prior to the operation of the plate G the key should be removed from the keyhole *i'*, after which the plate G may be moved to the left.

It is preferable that the plate D be covered with suitable material to present a tasty appearance, and for the same reason the locking mechanism consisting of the plate F and the mechanism carried thereby is suitably protected by being contained within and between the inner and outer covering of the upper connecting part B.

My binder may be used with leaves having all the apertures therein closed, as shown in Fig. 7, or with leaves having two of the apertures open, as seen in Fig. 8.

In the drawings I have shown my invention as applied to binding in a book form loose leaves having four apertures therein. It will of course be understood, however, that without departure from the spirit of my invention there may be any desired number of holes

from two up and a similar number of the posts for retaining the loose leaves and that any desired one or more of such posts may be removable and the others fixed, that any desired one or more of the apertures in the leaves arranged to be engaged by such posts may be open, or all such apertures may be closed.

It will of course be understood that the locks made use of in my binder may be of any desired construction and arranged to be operated only by different assorted keys in order that the binding mechanism may be unlocked and opened only by the proper individual.

What I claim is—

1. In a loose-leaf binder in combination with the two leaves of the cover thereof, connecting-pieces hinged one to each of the leaves of such cover and both hinged to a common back-piece, one or more fixed posts secured to one of such connecting-pieces, a series of leaves having an opening or openings therein for engaging such post or posts and mechanism carried by the other one of such connecting-pieces for releasably engaging the free end or free ends of such post or posts, such mechanism under the control of a lock and key such lock operable from without the binder by the insertion of a key through a suitable opening therefor in such connecting-piece.

2. In a loose-leaf binder in combination with the two leaves of the cover thereof, connecting-pieces hinged one to each of the leaves of such cover and both hinged to a common back-piece, one or more fixed posts secured to one of such connecting-pieces, a plate carrying a post or posts and having an opening or openings therein to receive the post or posts carried by such connecting-piece, a series of leaves having openings therein for engaging all of such posts, such plate and post or posts carried thereby removable from such leaves independently of their removal from the post or posts carried by such connecting-piece, and spring-actuated mechanism carried by such second connecting-piece arranged to engage the end or ends of such post or posts carried by such first-named connecting-piece and when in such engagement to prevent the removal of such plate and post or posts carried thereby.

3. In a loose-leaf binder in combination with the two leaves of the cover thereof, connecting-pieces hinged one to each of the leaves of such cover and both hinged to a common back-piece, one or more fixed posts secured to one of such connecting-pieces, a plate carrying a post or posts and having an opening or openings therein to receive the post or posts carried by such connecting-piece, a series of leaves having openings therein for engaging all of such posts, such plate and post or posts carried thereby removable from such leaves independently of their removal from the post or posts carried by such connecting-piece, such second connecting-piece carrying mechanism ar-



ranged to releasably engage the end or ends of the post or posts carried by such first-named connecting-piece and projecting through such plate.

4. In a loose-leaf binder in combination with the two leaves of the cover thereof, connecting-pieces hinged one to each of the leaves of such cover and both hinged to a common back-piece, one or more fixed posts secured to one of such connecting-pieces, a plate carrying a post or posts and having an opening or openings therein to receive the post or posts carried by such connecting-piece, a series of leaves having openings therein for engaging all of such posts, such plate and post or posts removable from such leaves independently of their removal from the post or posts carried by such connecting-piece, such second connecting-piece carrying mechanism arranged to releasably engage the end or ends of the post or posts carried by such first-named connecting-piece and projecting through such plate, such mechanism under the control of a suitable lock and key, such lock operable from the outside of the binder by the insertion of such key through a suitable opening.

5. In a loose-leaf binder a first plate having a post or posts projecting therefrom, a second plate also having a post or posts projecting therefrom and having openings therein to receive the free ends of the post or posts projecting from such first-named plate in combination with a series of leaves having perforations therein for engaging all of such posts, and a third plate independent of and removable from such second plate and carrying spring-actuated mechanism for releasably engaging the end or ends of such post or posts projecting from such first-named plate.

6. In a loose-leaf binder a first plate having a post or posts projecting therefrom, a second plate also having a post or posts projecting therefrom and having openings therein to receive the free end or ends of the post or posts projecting from such first-named plate in combination with a series of leaves having perforations therein for engaging all of such posts, and a third plate independent of and removable from such second plate and carrying mechanism for releasably engaging the end or ends of such post or posts projecting from such first-named plate.

7. In a loose-leaf binder a first plate having a post or posts projecting therefrom, a second plate also having a post or posts projecting therefrom and having openings therein to receive the free end or ends of the post or posts projecting from such first-named plate in combination with a series of leaves having perforations therein for engaging all of such posts and a third plate independent of and removable from such second plate and carrying mechanism for releasably engaging the end or ends of such post or posts projecting from such first-named plate such mechanism under

the control of a suitable lock and key whereby such third-named plate may be locked against disengagement from the post or posts carried by such first-named plate when desired.

8. In a loose-leaf binder in combination with the two leaves of the cover thereof, connecting-pieces hinged one to each of the leaves of such cover and both hinged to a common back-piece, two binding-plates each independent of the other and having one or more posts projecting therefrom, a series of leaves having perforations therein for engaging with such posts on such plates, mechanism under the control of a suitable lock and key for retaining such connecting-pieces when desired each at right angles or nearly so with such common back-piece and means whereby when such connecting-pieces are thus retained in their normal position at right angles or nearly so with such back-piece such binding-plates are held between such connecting-pieces and with the posts thereon in engagement with the perforations therefor in such leaves.

9. In a loose-leaf binder a first plate having a post or posts projecting therefrom, a second plate also having a post or posts projecting therefrom and having openings therein to receive the free end or ends of the post or posts projecting from such first-named plate, a series of leaves having perforations therein for engaging all of such posts, and a third plate independent of and removable from such second plate and carrying spring-actuated mechanism for releasably engaging the ends of such post or posts projecting from such first-named plate, in combination with a cover for such binder having two leaves and two connecting-pieces hinged one to each of the leaves of such cover and both hinged to a common back-piece, such first plate secured to or carried by one of such connecting-pieces and such third plate secured to or carried by the other one of such connecting-pieces.

10. In a loose-leaf binder a first plate having a post or posts projecting therefrom, a second plate also having a post or posts projecting therefrom and having openings therein to receive the free end or ends of the post or posts projecting from such first-named plate, a series of leaves having perforations therein for engaging all of such posts, and a third plate independent of and removable from such second plate and carrying mechanism for releasably engaging the ends of such post or posts projecting from such first-named plate, in combination with a cover for such binder having two leaves and two connecting-pieces hinged one to each of the leaves of such cover and both hinged to a common back-piece, such first plate secured to or carried by one of such connecting-pieces and such third plate secured to or carried by the other one of such connecting-pieces.

11. In a loose-leaf binder a first plate having a post or posts projecting therefrom, a second



plate also having a post or posts projecting therefrom and having openings therein to receive the free end or ends of the post or posts projecting from such first-named plate, a series of leaves having perforations therein for engaging all of such posts and a third plate independent of and removable from such second plate and carrying mechanism for releasably engaging the end or ends of such post or posts projecting from such first-named plate such mechanism under the control of a suitable lock and key whereby such third-named plate may be locked against disengagement

from the post or posts carried by such first-named plate when desired, in combination with a cover for such binder having two leaves and two connecting-pieces hinged one to each of the leaves of such cover and both hinged to a common back-piece, such first plate secured to or carried by one of such connecting-pieces and such third plate secured to or carried by the other one of such connecting-pieces.

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