

G. E. STANSELL.
 LOOSE LEAF BINDER.
 APPLICATION FILED JUNE 20, 1910.

982,750.

Patented Jan. 24, 1911.

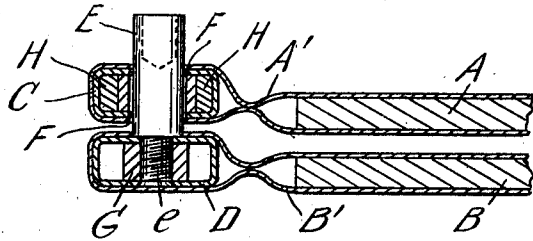


Fig. 3

Fig. 1

Fig. 2

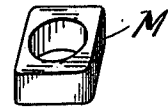
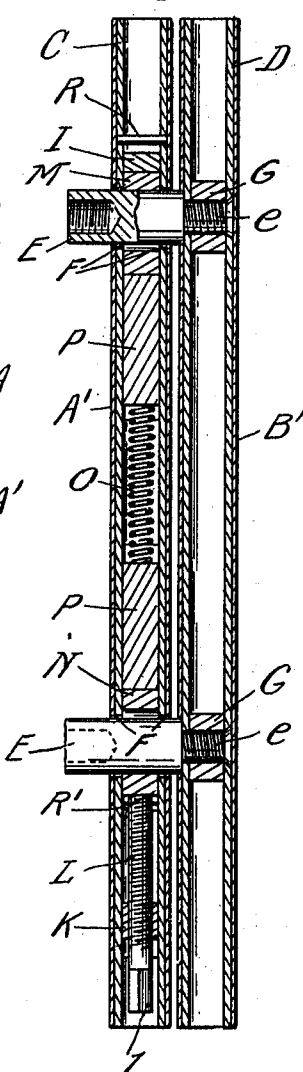
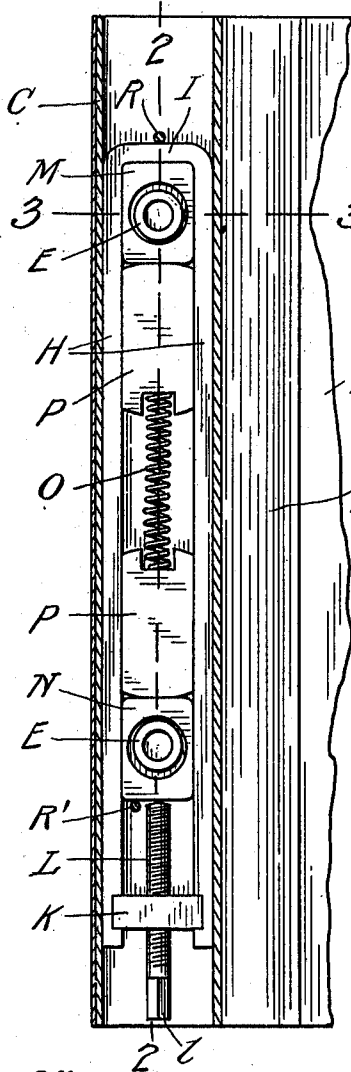
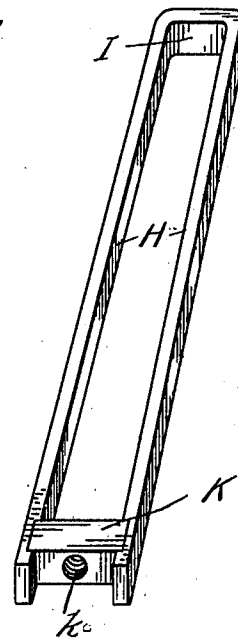


Fig. 5

Fig. 4



Witnesses
 H. Barnes
 E. Peterson

Inventor:
 Guy E. Stansell
 By his Attorney,
 Pierre Barnes

UNITED STATES PATENT OFFICE.

GUY E. STANSELL, OF SEATTLE, WASHINGTON.

LOOSE-LEAF BINDER.

982,750.

Specification of Letters Patent.

Patented Jan. 24, 1911.

Application filed June 20, 1910. Serial No. 567,858.

To all whom it may concern:

Be it known that I, GUY E. STANSELL, a citizen of the United States, residing at Seattle, in the county of King and State of Washington, have invented certain new and useful Improvements in Loose-Leaf Binders, of which the following is a specification.

This invention relates to improvements in loose-leaf binders; and its object is to perfect devices of this class whereby leaves may be readily inserted or removed as desired.

The invention consists in the novel construction and combination of parts, as will be hereinafter described and claimed.

In the accompanying drawings which show an embodiment of my invention—Figure 1 is a plan view with casing of one of the cover-parts broken away. Fig. 2 is a longitudinal section taken through 2—2 of Fig. 1 but with the clamping collars therein engaged with the posts. Fig. 3 is a cross section at 3—3 of Fig. 1. Figs. 4 and 5, respectively, are perspective views of the clamping-frame and one of the clamping-collars shown in the other figures.

The reference letters A and B designate the top and bottom cover-boards of the binding and, in the construction illustrated, are connected by sheets A' and B' of flexible material with tubular members C and D.

Posts E extend through spaced holes F in opposite walls of the member C and are rigidly secured to the other member in any appropriate way, as by screwing reduced ends *e* of the posts into blocks G provided within such member. These posts furnish supports for the leaves which are to be bound by engaging the same within apertures punched adjacent to the back edges of the leaves.

Loosely fitted within the member C is a rectangularly shaped frame comprised of side bars H and end bars I and K. The bar K is provided with a screw-threaded hole $\frac{1}{2}$ for engagement with a longitudinally arranged screw L having a polygonal outer end *l* which is engageable within the socket of a suitable operating key. M and N are collars, one for each post, and located with-

in said frame. Between the collars is a spring O tending to push the collars asunder and, in relatively large bindings, the operation of the spring is improved by employing blocks P between the collars and the adjacent ends of the spring.

R and R' are pins extending across the space within the member C and located to be engaged by the frame-bar I and the collar N to limit the opposite movements imparted thereto through the instrumentality of said spring when the screw is retracted.

With the parts of the device occupying the positions shown in Fig. 1, the member C with the connected cover-board A may be detached from the complementary parts of the binder, by lifting the former from the posts. By replacing the member C and associated parts upon the posts and operating the screw L against the collar N, the latter is shoved against the adjacent post with a consequent retractile movement of the frame to cause the collar M to be likewise brought into contact with the other post and clamp the two posts with the member C through the agency of the respective collars.

The invention claimed, is—

In a binder, a cover, a tubular member incased therein, blocks inclosed in said tubular member, posts having reduced externally screw-threaded ends and internally screw-threaded sockets in their opposite ends and rigidly screwed into said blocks through perforations in one side of said member, another cover, a tube therein, said latter cover and tube provided with apertures therethrough to receive said posts which project therethrough and from one face of the latter cover, a rectangular collar for each post, a U-shaped frame within said tube inclosing said collars, a cross-bar positioned in said frame and spaced from one end thereof, further blocks positioned adjacent said collars and having cut-away sockets in their adjacent ends, a spring interposed between the latter-named blocks and seated in said sockets and adapted to push said blocks and collars apart, a pair of spaced stops secured to the inside of the

tube, one stop being positioned centrally outside of the frame in the path of movement of the end of the frame and the other at one side within the frame and adapted to be engaged by the collar positioned oppositely thereto, a screw threaded into the cross-bar of said frame and centrally engaging one end of said latter collar and adapted to effect the engagement of the posts by said collars.

GUY E. STANSELL.

Witnesses:

PIERRE BARNES,
E. PETERSON.