No. 711,901. Patented Oct. 21, 1902.

W. G. JONES.

BINDER FRAME.

(Application filed May 12, 1902.)

(No Model.)

Fig. 1.

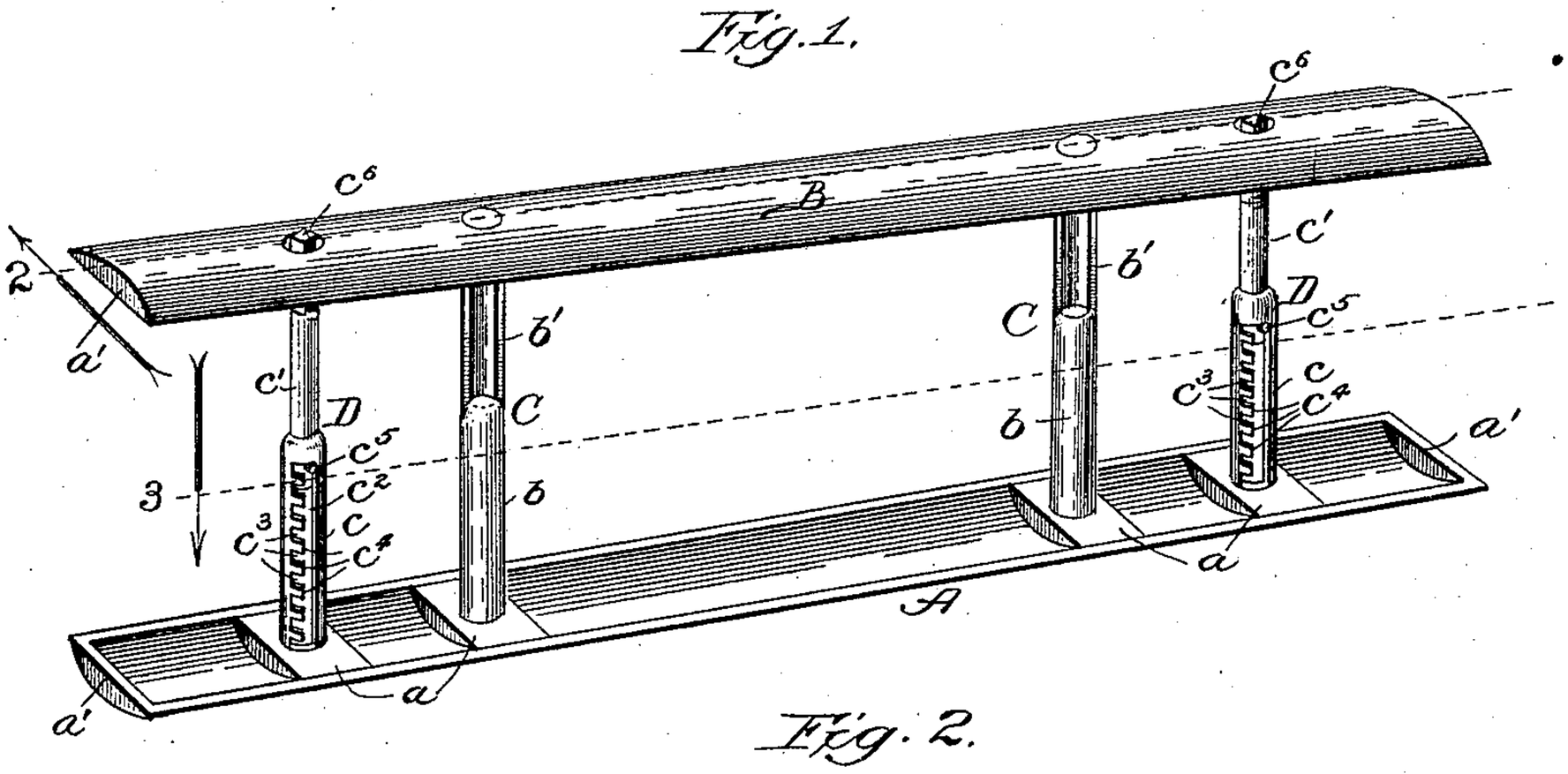


Fig. 2.

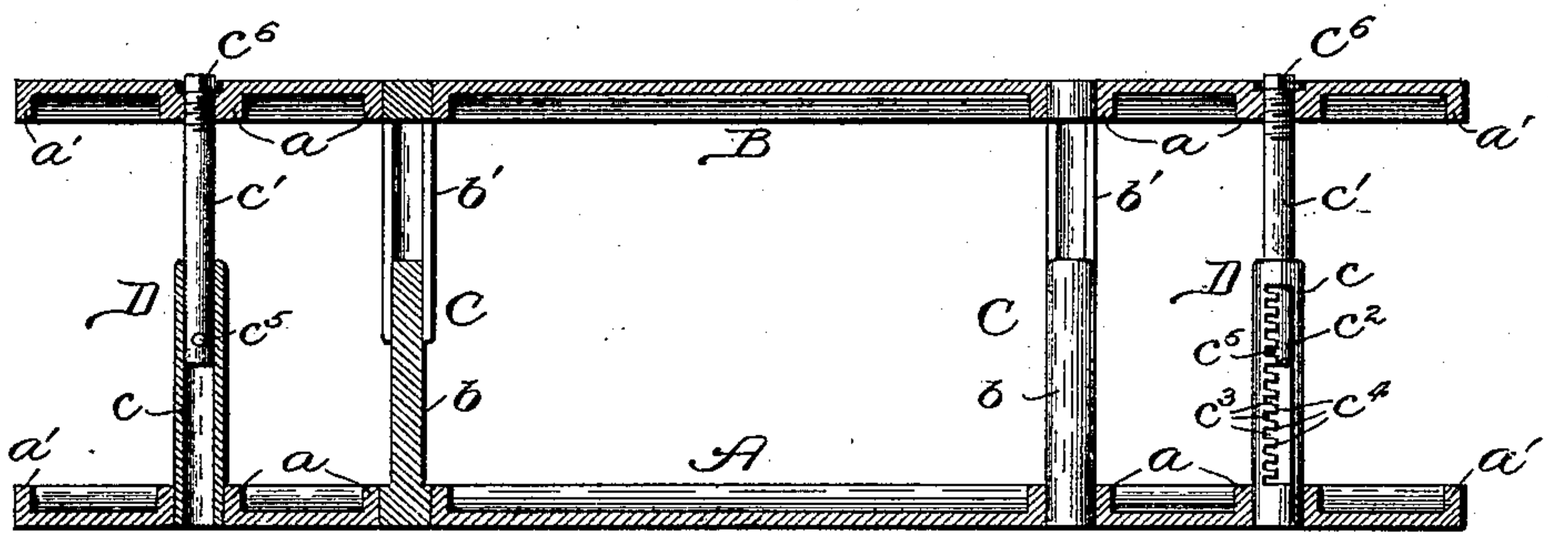


Fig. 3.

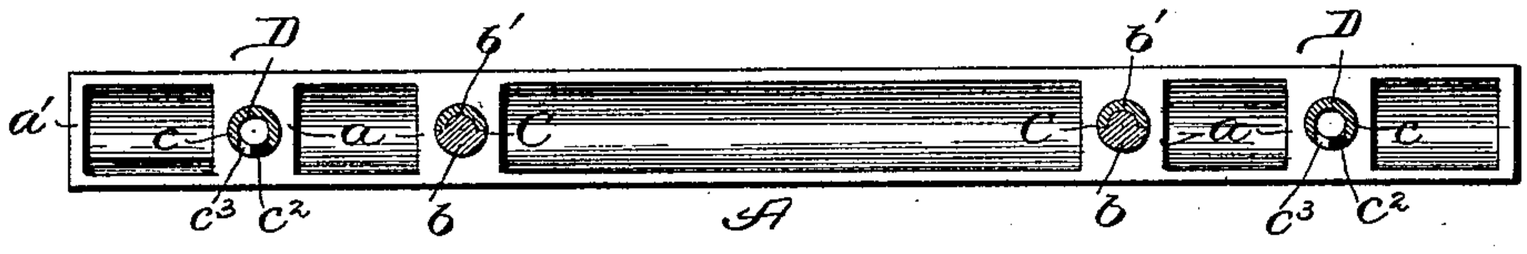
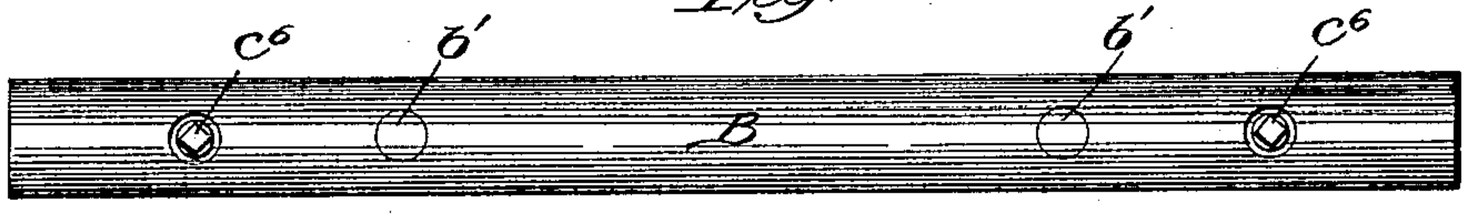


Fig. 4.



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UNITED STATES PATENT OFFICE.

WILLIAM GIFFORD JONES, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO HARRY SLOPER JONES, OF CHICAGO, ILLINOIS.

BINDER-FRAME.

SPECIFICATION forming part of Letters Patent No. 711,901, dated October 21, 1902.

Application filed May 12, 1902. Serial No. 106,957. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM GIFFORD JONES, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Binder-Frames, of which the following is a specification.

My invention relates particularly to binder-frames for loose-leaf catalogues, &c., where a cheap construction is desirable.

My primary object is to provide a binder of exceeding simplicity and having the requisite strength, durability, and handiness.

My invention is illustrated in the preferred form in the accompanying drawings, in which—

Figure 1 represents a perspective view of the improved binder-frame; Fig. 2, a vertical section taken as indicated at line 2 of Fig. 1; Fig. 3, a horizontal section taken as indicated at line 3 of Fig. 1, and Fig. 4 a plan view of the binder-frame.

The preferred construction is as follows: A represents a lower bar or clamping member; B, an upper bar or clamping member; C, telescopic binding-posts connecting the members A and B, and D adjusting-posts connecting the members A and B.

In the preferred construction the bars A and B comprise cylindrical sections having on their inner surfaces transverse ribs a for attaching the posts and at their ends ribs or flanges a', which give them the appearance when viewed from the end of being of solid metal. The bars are preferably cast from an alloy of aluminium, so that they are quite light.

Each binding-post C comprises a section b, connected with the lower clamping member, and a section b', connected with the upper clamping member. The section b' is of a half-cylindrical form and the section b is of rod form, but recessed to receive the section b', as indicated in Fig. 3.

Each adjusting-post D comprises, preferably, a tubular member c, connected with the lower clamp-bar, and a rod c', connected with the upper clamping-bar. The member c is provided with a vertical slot c^2, one wall of which is provided with a series of recesses c^3, affording between them short tongues or projections c^4. The projections c^4 incline downwardly somewhat, as shown. The member c' has threaded connection at its upper portion with the member B and is equipped at its lower end with a laterally-projecting stud c^5, which is adapted to engage any of the notches or recesses c^3. The rod c' is provided with a squared upper end c^6, adapted to receive a key.

The manner of use will be readily understood. When it is desired to separate the bars A and B, the rods c' are turned by means of a key till the studs c^5 are free from the teeth c^4, when the bars can be readily separated. After the binder has been properly filled with leaves or after certain leaves have been removed and new leaves substituted the bar B is pressed downwardly to bind the leaves tightly between itself and the bar A, and afterward the rods c' are turned to lock the bars against separation.

The binder-frame may be used without cover-sections, or any suitable cover-sections may be supplied.

Changes in minor details of construction within the spirit of my invention may be made. Hence no undue limitation should be understood from the foregoing detailed description.

What I claim as new, and desire to secure by Letters Patent, is—

In a binder, the combination of two clamping members, and posts connecting said clamping members, including a post comprising a tubular standard fixedly secured to one clamping member and provided with a longitudinal slot and a series of recesses at one side of said slot, and a rod having screw connection with said other clamping member and entering said tubular member and provided with a laterally-projecting stud at its free end for engaging said recesses, for the purpose set forth.

WILLIAM GIFFORD JONES.

In presence of—

ALBERT D. BACCI,

M. S. MACKENZIE.