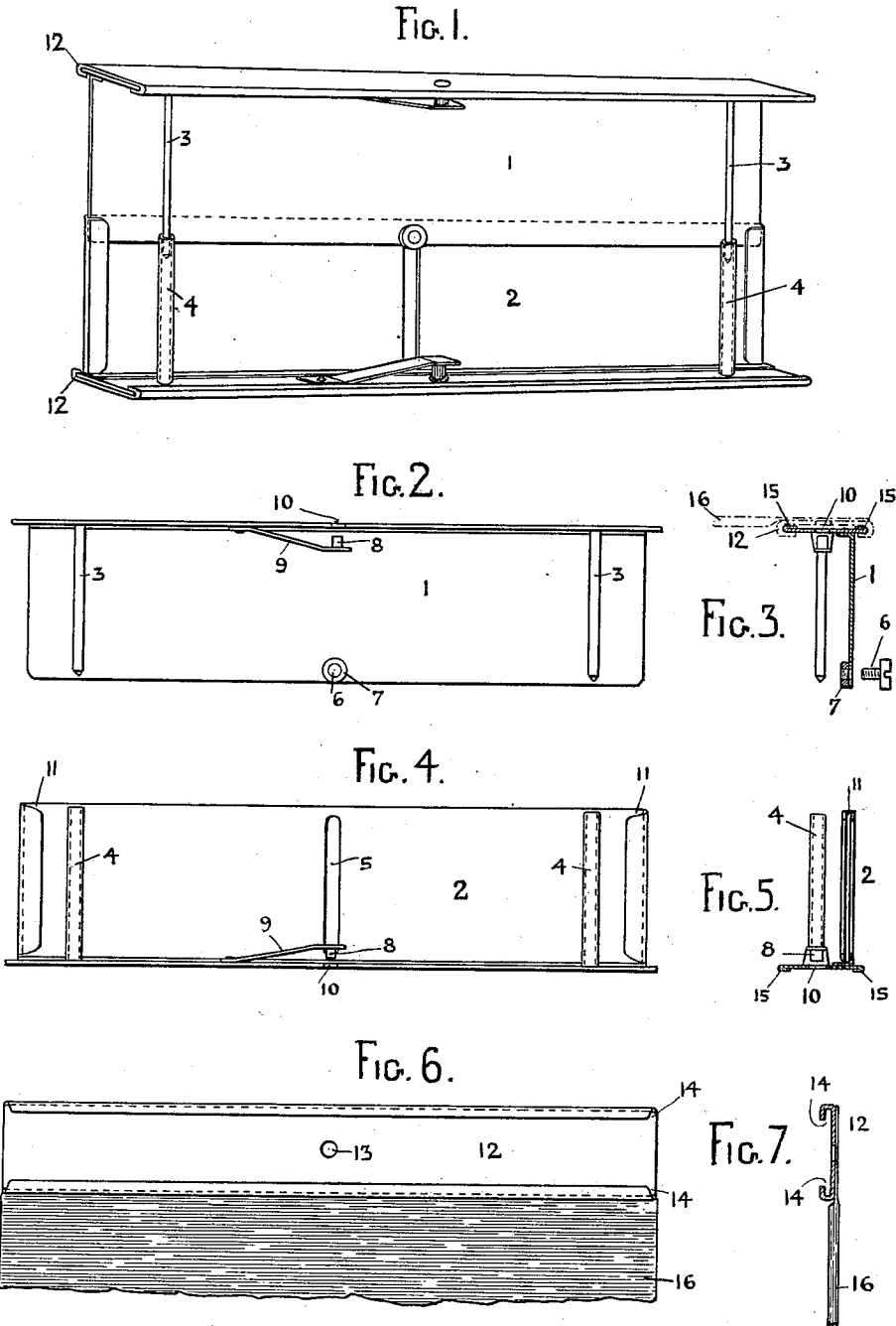


No. 606,978.

Patented July 5, 1898.

A. OPALLA.
LOOSE LEAF BOOKBINDER.
(Application filed Nov 20, 1897.)

(No Model.)



WITNESSES:
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ARTHUR OPALLA, OF CHICAGO, ILLINOIS.

LOOSE-LEAF BOOKBINDER.

SPECIFICATION forming part of Letters Patent No. 606,978, dated July 5, 1898.

Application filed November 20, 1897. Serial No. 659,344. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR OPALLA, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Extensible Loose-Leaf Bookbinder with Removable Covers, of which the following is a specification.

My invention relates to improvements in loose-leaf bookbinders in which a telescoping back with telescoping rods and tubes is pressed together and holds the leaves to be bound in any desired position, the rods and tubes thereby passing through punch-holes in the leaves; and the objects of my improvement are, first, to provide an extension-back always ready to be adjusted according to the number of leaves to be bound; second, to prevent the removal of any leaves when the back is locked, and, third, to provide independent covers to be used on extension-backs of any height of my construction. I attain these objects by the arrangement illustrated in the accompanying drawings, in which—

Figure 1 is a perspective inside view of the complete binder; Fig. 2, an inside view of the upper back piece; Fig. 3, a vertical section of the upper back piece; Fig. 4, an inside view of the lower back piece; Fig. 5, a vertical section of the lower back piece; Fig. 6, an inside view of the removable sliding cover; Fig. 7, a vertical section of the removable sliding cover.

The back, which is itself separable from the cover-sections, comprises, preferably, two separable telescoping members of L shape in cross-section, whose vertical portions 1 and 2 form a completely-closed back for the book and whose forwardly-projecting horizontal flanges afford bases from which project the downwardly-extending studs 3 of the upper member and the upwardly-extending tubes 4 of the lower section, which telescope therewith. At its ends the vertical portion 2 of the lower back member is turned inwardly to afford vertical guides 11, within which move the ends of the vertical portion 1 of the upper back member. Thus the vertical portion or flange of the upper member bears closely against the inner surface of the vertical flange of the lower member. As a preferred means for adjustably holding the back members to-

gether I provide a screw 6, Figs. 2 and 3, which moves within a vertical slot 5 in the back portion 2 and is threaded at its inner end to fit into a nut 7, with which a suitable perforation at the lower edge of the back part 1 is equipped.

The horizontal flange of each back-section projects slightly back of the vertical flange by which it is supported, thus completing the L shape and affording guides 15, which receive the slides 12 of the removable cover-sections. The book-covers 16 are of any suitable material and are flexibly joined in any suitable manner to the slides 12, as by means of canvas or leather attached to the covers and cemented to the outer surfaces of the slides, as shown in Fig. 7. The slides are provided with inturned flanges, which afford slideways 14, which move on the guides 15.

The slides are provided with perforations 13, which register with perforations 10 in the forwardly-projecting horizontal flanges of the back members. To the inner surfaces of said flanges are attached flat springs 9, each carrying at its free end a locking pin or stud 8, adapted to enter the registering perforations and lock the slides to the back-sections when outward pressure is exerted upon the springs by the leaves on the interior.

The manner of using is to secure the leaves to the back members by passing the posts through punch-holes in the leaves. The slides with their attached cover-sections being in place on the back-sections it is necessary only to press the back members together and secure them at any desired tension by means of the screw 6. The pressure of the leaves upon the springs locks the cover-sections to the back-sections.

The construction of the back-sections is particularly cheap, neat in appearance, and effective in operation, and the feature of making the cover-sections readily separable from the back enables said sections to be used with different backs, either of the same height or of different height.

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

1. In a loose-leaf bookbinder, the combination with two adjustably-connected back-sections provided with leaf-engaging means, of two separate and independent readily-detach-

able cover-sections slidably connected with said back-sections, substantially as and for the purpose set forth.

5 2. In a loose-leaf bookbinder, the combination of two adjustably-connected L-shaped back-pieces, having rods and tubes respectively with slides and hereto-attached covers of any convenient material, said slides formed to be slipped easily over the horizontal

flanges of the back-pieces respectively and 10 arrested by pins 8, mounted on springs 9, and passing through holes 10 of the horizontal flanges into holes 13 of said slides.

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