

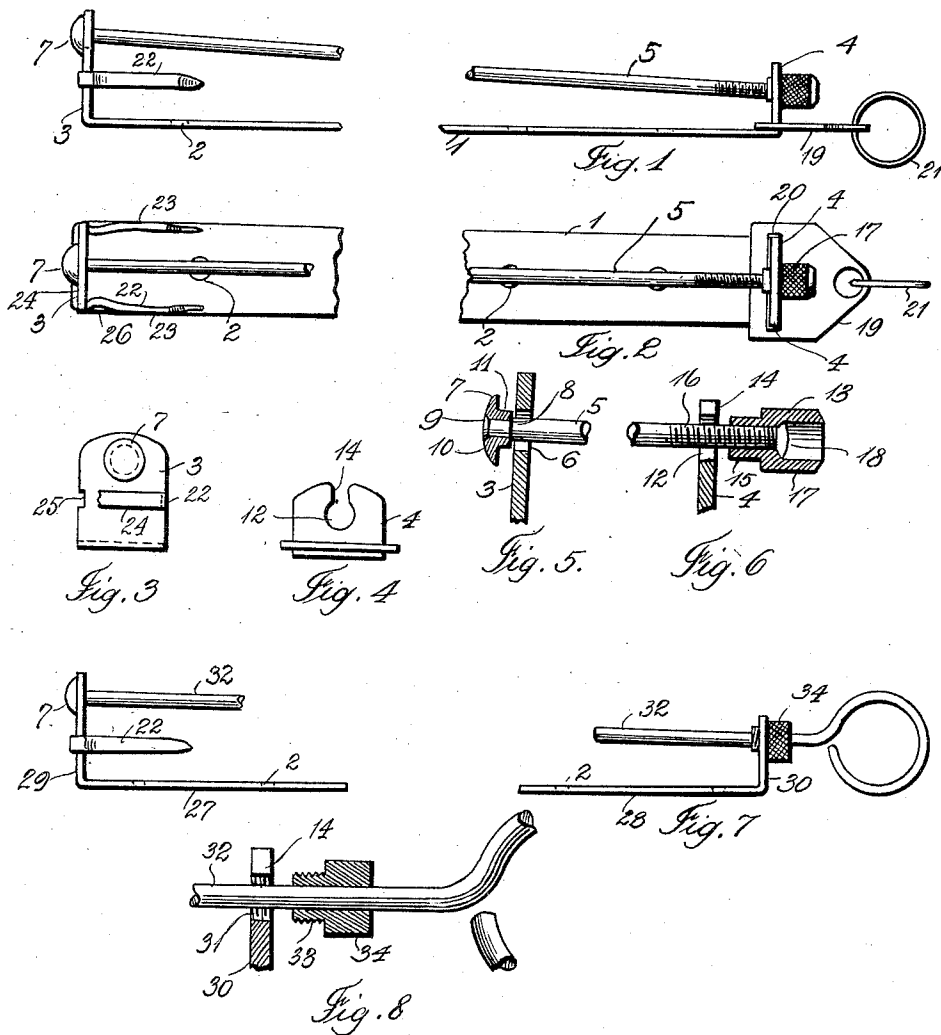
W. FELDMANN.

BOOKBINDER.

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1,044,765.

Patented Nov. 19, 1912.



WITNESSES:

F. Stapel.
Karl Siegmund.

INVENTOR

William Feldmann
by Felix Stern

UNITED STATES PATENT OFFICE.

WILLIAM FELDMANN, OF CHICAGO, ILLINOIS.

BOOKBINDER.

1,044,765.

Specification of Letters Patent.

Patented Nov. 19, 1912.

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To all whom it may concern:

Be it known that I, WILLIAM FELDMANN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Bookbinder, of which the following is a specification.

This invention relates to book binders.

An object of the invention is to provide a binder which is adapted for detachably securing paper bound books to covers of more rigid material, like card board covers, or covers made of wooden boards. Binders of this kind are of great advantage where magazines, which usually are bound in paper, are to be protected against excessive wear, and where it is advisable to replace frequently the paper bound book in the cover by another book. Binders of this kind are also used in combination with heavy paper bound directories, like telephone directories and such like, which are subjected to a good deal of use and which, therefore, would be torn after short use, if they were not provided with covers of more solid material. The connection between the cover and the book must be such that the book can be removed easily, so as to allow of the insertion of another book into the same cover, for instance, when a telephone directory is to be replaced by the periodically revised edition of the same directory.

Another object of the invention is to provide a binder of this kind in which a clamping rod is detachably secured to a support, the support being fastened to the back of the rigid cover. The manner of connection between the clamping rod and the support is such that the clamping rod may be disconnected from the support by removing the same transversely to the longitudinal extension of the support.

Another object of the invention is to provide means in connection with the clamping rod for seating the same in the support and for fastening it thereon, and for preventing separation of the fastening means from the rod.

Another object of the invention is to pro-

vide a bifurcated member firmly seated in the support and which will serve to project its prongs between the leaves on opposite sides of the clamping rod so as to make it impossible to remove in lateral direction the book from the binder.

Other objects of the invention will be more fully understood by reference to the following specification and the accompanying drawing and will be more clearly pointed out in and by the appended claims.

In the accompanying drawing: Figure 1 shows an elevation of one embodiment of the invention, Fig. 2 shows a top plan view thereof, Fig. 3 being an end view from the left hand side in Fig. 1, Fig. 4 being an end view from the right hand side in Fig. 1, the clamping rod being omitted in this view. Fig. 5 is a sectional detail view showing the means for firmly seating the clamping rod in the support. Fig. 6 is a similar detail sectional view showing the opposite end of the clamping rod in connection with the adjustable fastening means therefor. Fig. 7 is an elevation of a modification of the binder, and Fig. 8 is a sectional view similar to Fig. 6, showing the adjustable means for securing the clamping rod into the support of the modification shown in Fig. 7.

The support 1 in the form of a metal bar is provided with a plurality of apertures 2 which may serve for the reception of rivets or such like to fasten said support to the back of the cover. The support is provided on opposite ends with upwardly projecting lugs 3 and 4, preferably integral with the bar 1, said lugs serving to receive the clamping rod 5. The rod 5 extends through a hole 6 in the lug 3, and is provided at the end near said lug with a head 7 which is securely fastened to the rod, for instance, by resting on a shoulder 8 of the rod, the end of the rod being enlarged, as shown at 9 in Fig. 5, so that the head 7 can not be displaced either way on the rod.

The head 7 comprises a top portion and a seat portion 11, the last named portion being of a size and shape to fit into the aperture 6 of the lug 3, so that after the engage-

ment of said portion 11 with the walls of the aperture 6, a shaking or rattling of the rod in the lug is prevented. The lug 4 at the other end of the bar, also is provided with an aperture 12 serving as a seat for the fastening means 13. A slot 14 extends from the aperture 12 to the edge of the lug which will make it possible to remove or insert the rod from or into said lug 4 respectively, in a direction transversely to the longitudinal direction of the support. The fastening means illustrated in Fig. 6 comprise a nut 15 in engagement with the threaded portion 16 of the rod and a knob 17 preferably knurled on its circumference to facilitate the loosening or fastening of the rod with respect to the lug. The diameter of the nut 15 is sufficiently large to engage the walls of the aperture 12 when the nut is advanced toward the lug, this nut forming a seat for the fastening means of the clamping rod. The rod extends through the nut and is provided with an enlarged head 18, so that a withdrawal of the fastening means is not possible and the loss of the same is prevented.

For the purpose of facilitating suspension of the support, a detachable clip 19, having a slot 20, is placed over the lug and a ring 21 or some other suitable means for suspension may be connected with said tongue.

For the purpose of preventing a lateral withdrawal of the book from the device, a bifurcated member 22 is securely fastened to one of the lugs, the prongs 23 of said member being located underneath the clamping rod 5 and at both sides of the same. The bight of the bifurcated member 24 is pressed tightly against the rear side of the lug 3, and the prongs extend from said bight through recessed portions 25 in the lateral edges of the lug 3. To secure the bifurcated member against withdrawal in longitudinal directions, the prongs thereof are swaged inwardly as indicated at 26, making the connection between prong and support a very rigid one.

In the modification shown in Fig. 7, the support comprises a plurality of short bars 27 and 28 having the lugs 29 and 30, respectively, and it is obvious, therefore, that this support for the clamping rod may be used for books of various heights or lengths while the support shown in Fig. 1 is adapted for use with a book of a certain size. The lug 30 also is provided with an aperture 31 similar to the aperture 12 in Fig. 4, and a slot 14 broad enough to permit the passage of the rod 32, extends from the aperture 31 to the edge of the lug. It is therefore possible in this modification like in the modification described above, to introduce or re-

move the clamping rod in transverse direction with respect to the length of the rod. The fastening means in this second modification comprises a threaded member 33 movable with respect to the rod 31 and also being provided with a knurled knob 34. This threaded member 33 is adapted to engage the seating aperture 31 which is also provided with threads, as clearly shown in Fig. 8. The rod 32 is integral with means which serve as suspension elements for the entire device and which at the same time prevent a withdrawal of the fastening means 34 from the rod. For this purpose the upper portion of the rod 32 is bent in the shape of a ring or eye, as clearly shown in Fig. 7.

In binders of this kind it was necessary heretofore to withdraw the clamping rod in longitudinal direction from the lug to which it was detachably secured. In the device described above, however, the rod may be removed or inserted in a direction transverse to the longitudinal direction, and thereby a removal or insertion of a book is greatly facilitated. Known binders of this kind also had the disadvantage that even after securing the book within the binder the clamping rod was loosely connected with the support, so as to rattle thereon, and this caused annoyance in the use of the book, especially where the book was designed for frequent use during short periods only, like telephone directories and such like.

Another improvement of this device, in view of the known book binders, consists in the integral construction of the clamping fork 22, while in known binders of this kind the fork usually consisted of two pins which were singly riveted to the lug or fastened in some other way thereon.

I claim.

1. A binder of the character described, comprising in combination a clamping rod, a support for the same, lugs on said support provided with apertures through which the clamping rod extends, and movable fastening means on the rod, provided with a seating portion adapted for engagement with the circumferential wall of one of said apertures.

2. A binder of the class described, comprising in combination a clamping rod, a support for the same, lugs on said support provided with apertures through which said clamping rod extends, movable fastening means on the rod provided with a seating portion adapted for engagement with the circumferential wall of one of said apertures, and an element integral with the rod for preventing withdrawal or loss of said fastening means from the rod.

3. A binder of the class described, com-

prising in combination a clamping rod, a support for the same, lugs on said support provided with apertures through which the clamping rod extends, means for securing
5 the rod in said apertures, a clamping fork seated in recessed portions of one of said lugs, the prongs of said fork being swaged inwardly adjacent said recessed portion and the bight of the fork being pressed into engagement with said lug. 10

Chicago, Illinois, October 25th, 1911.

WILLIAM FELDMANN.

Witnesses:

F. STAPEL,

KARL SIEGMUND.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."