

R. J. NICHOLSON.

BOOKBINDER.

APPLICATION FILED APR. 13, 1907.

928,878.

Patented July 20, 1909.

2 SHEETS—SHEET 1.

Fig. 1.

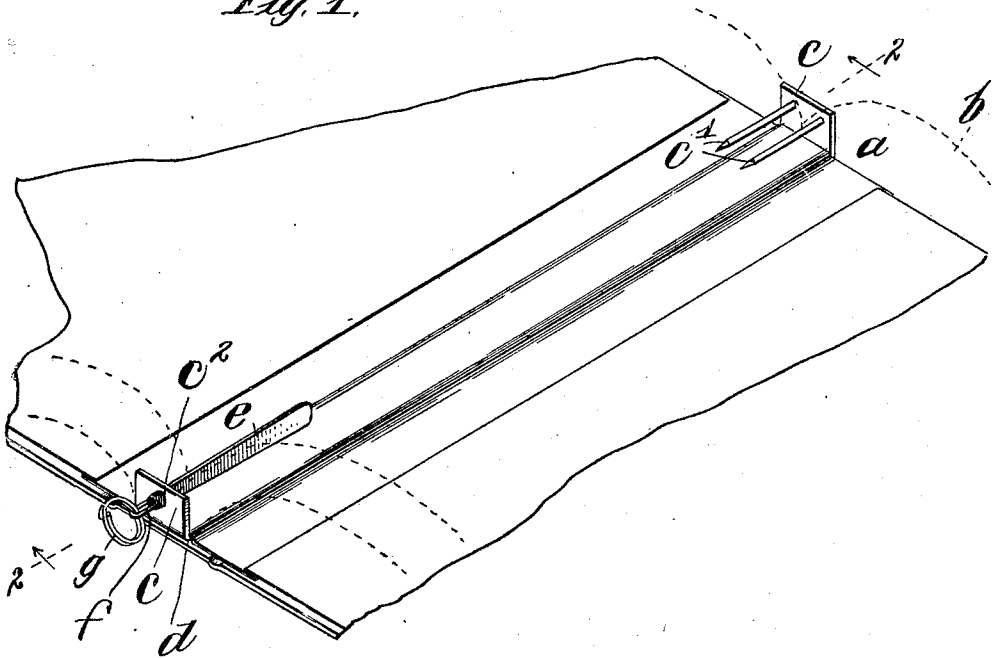


Fig. 2.

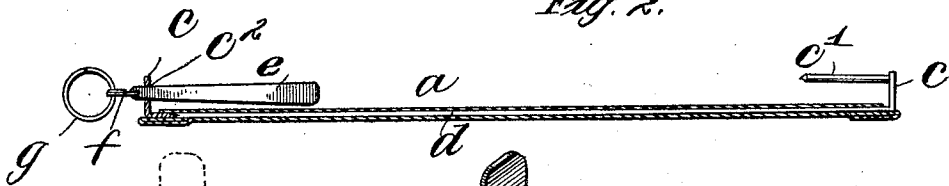
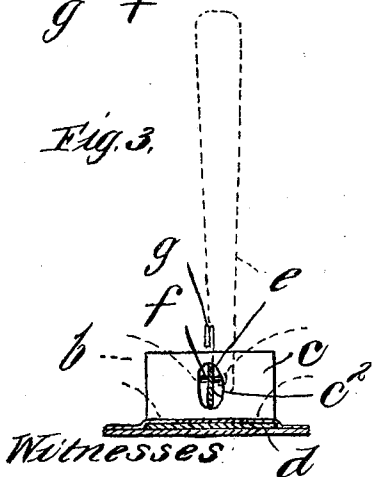
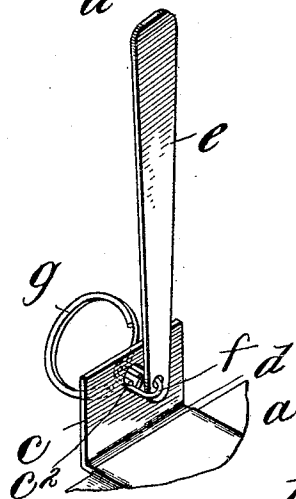


Fig. 3.



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Fig. 4.



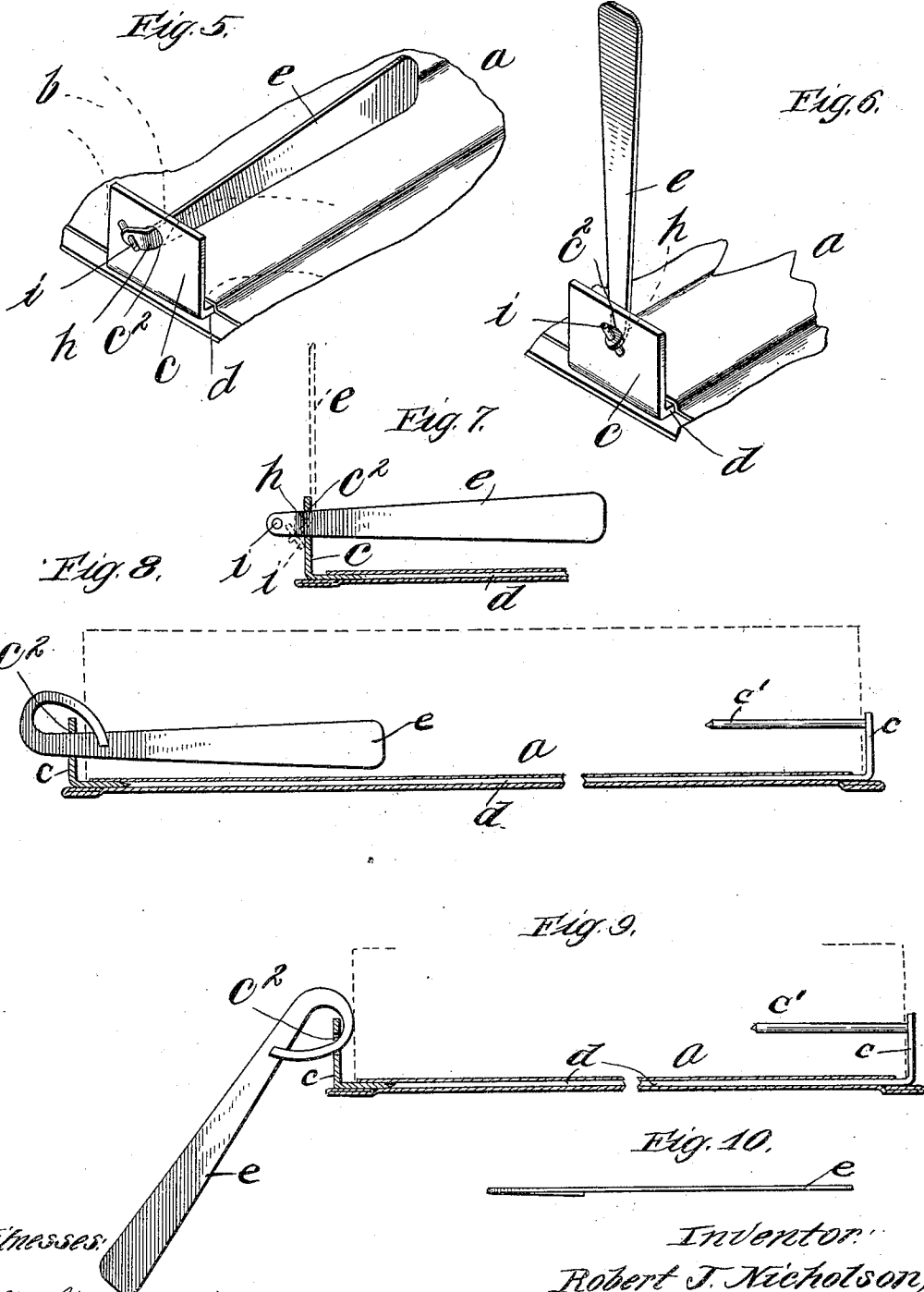
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

ROBERT J. NICHOLSON, OF CHICAGO, ILLINOIS.

BOOKBINDER.

No. 928,878.

Specification of Letters Patent.

Patented July 20, 1909.

Application filed April 13, 1907. Serial No. 367,939.

To all whom it may concern:

Be it known that I, ROBERT J. NICHOLSON, citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Bookbinders, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to book binders and will be hereinafter disclosed by reference to the accompanying drawing, showing the preferred embodiments of the invention, and the invention will be particularly pointed out in the claims.

In the drawing—Figure 1 is a perspective view of one embodiment of the invention. Fig. 2 is a sectional view on line 2 2 of Fig. 1. Fig. 3 is an end view showing a book held in place by a metal strip, an alternative position of the metal strip being shown in dotted lines. Fig. 4 is a perspective view showing in full lines the position of the metal plate indicated by the dotted lines in Fig. 3. Figs. 5 and 6 are perspective views of a modification of the structure shown in Figs. 1 to 4, inclusive, Fig. 5 showing the holding position of the device while Fig. 6 shows the holding device in an alternative position. Fig. 7 is a sectional elevation of the parts as indicated in Fig. 5, the position of the holding device as indicated in Fig. 6 being shown in dotted lines in Fig. 7. Figs. 8 and 9 show another construction, the holding device being shown in alternative positions in these two figures. Fig. 10 is a view of the holding device entering into the construction of Figs. 8 and 9.

Like parts are indicated by similar characters of reference throughout the different figures.

The back element *a* constitutes a separable cover designed to engage the backs of books, such as magazines, a book *b* being shown provided with such a cover. In order that this back element may engage the back of a book, it is preferably provided with upwardly extending arms *c* secured to the back element in any suitable way. In the preferred embodiment of my invention, these upwardly extending arms *c* constitute the angular ends of a metal strip *d* which is caused to form a part of the back element *a*. One of the arms *c* desirably carries a prong or prongs *c*¹,

while the other arm *c* is provided with an opening through which the reduced end of a bar *e* is inserted, this bar *e* being so shaped that it may be projected outwardly to a limited extent. The bar *e*, for the purpose last expressed, is desirably wedge-shaped, the larger end of the wedge being containable between the leaves of the book that is to be held in place. The bar *e* is preferably flat and occupies a position that is perpendicular to the plane containing the long and intermediate portion of the metal strip *d*, when said bar is taking part in holding a book within its cover. In other words, this bar, when performing this function, occupies a plane substantially perpendicular to the back of the book proper. In order that the bar *e* need not be removed bodily from the structure each time a book is to be inserted or replaced, I provide structural features whereby that normal inter-relation and relative position of the bar *e* and the associate arm *c* may be changed without effecting the removal of said bar, yet which change in relation and position will permit the book to be inserted or replaced. In the normal position of the bar within the aperture *c*² of the associate arm *c*, that position in which said bar holds the inserted book in place, the said bar is incapable of material movement, because the book confines it in such slight movement as it is permitted to have, to the plane it then occupies. Aperture *c*² is elongated vertically and contracted horizontally to hold strip *e* vertical when in holding position.

Respecting the construction shown in Figs. 1 to 4, when it is desired to insert or replace a book, the bar *e* need only be drawn in until the link *f* projects sufficiently within the book space to permit the elevation of the bar, which elevation may then be sufficient to permit the insertion and replacement of books. In order to restore the book holding position of the bar *e*, said bar need only be placed in a plane perpendicular to the back of the book and thereafter projected outwardly through the associate arm *c*, so that said arm cooperating with the contained book will maintain the said bar in a plane substantially perpendicular to the back of the book, whereby said book is held in place. In order to maintain the bar *e* in permanent relation with the associate arm *c*, the link *f* has a suitable impediment upon the exterior of the arm *c* to prevent the stated displacement of

the bar, this impediment desirably residing in a spiral ring *g*, though I do not wish to be limited to this arrangement.

In the construction shown in Figs. 5, 6 and 7, the bar *e* is also limited in its movement when holding a book in position.

In order to be able to swing the bar *e* clear of the book, when said book is to be inserted or replaced, I bend said bar at *h*, in the construction shown in Figs. 5, 6 and 7, this bend permitting the bar *e* to swing in a plane substantially perpendicular to the back of the book, when said bar is rotated a quarter turn from the position it occupies when holding the book in place. In order to facilitate the turning of the bar a quarter turn, in order that it may thereafter be swung clear of the book to permit the insertion or replacement of the book, the external end of the bar may be provided with some suitable actuating device, such as that indicated at *i*, the element *i*, in the form of the invention shown in Figs. 5 to 7, constituting a T-head for the bar which may be grasped by the thumb and fore-finger in order to turn the bar. The T-head constitutes a fastening device in permanent connection with the bar, whereby said fastening device is capable of holding the bar in position and also serves as an operating handle for the purpose expressed.

In Figs. 8, 9 and 10 is shown another embodiment of the invention in which the narrower end of the plate *e* is turned over in substantially the plane of the plate, so that it may occupy a holding position as indicated in Fig. 8, in which position it is farthest projected toward the fastening prong *c'*, and so that it may be moved into the position shown in Fig. 9, whereupon the book may be withdrawn. In order to permit of the adjustment shown in Fig. 9, the fastening plate *e* is moved longitudinally away from the prong *c'* and thereafter swung backward.

The position to which the bar may be swung, in order to clear the space occupied by the book, is shown in dotted lines.

I claim as new and desire to secure by Letters-Patent the following:—

1. A device of the class described includ-

ing a cover structure within which a book may be separably contained, a bar engaging an element of said structure and bent near where it engages said element of the cover and thereby being permitted to swing away from the book when said bar is shifted from its book-holding position by reason of the bend in the bar, said element of the cover structure having this engagement with the bar being in the form of an arm provided with an opening which receives the bar and permits the same to project outwardly to a limited extent.

2. A device of the class described including a cover structure within which a book may be separably contained, a bar engaging an element of said structure and bent near where it engages said element of the cover and thereby being permitted to swing away from the book when said bar is shifted from its book-holding position by reason of the bend in the bar.

3. A device of the class described including a cover structure within which a book may be separately contained, said cover structure including an apertured arm, a bar adapted to project through said opening to a limited extent and having inter-connection with the arm which permits the bar to swing clear of the book held by the cover, whereby the cover may have a book engaged therewith or removed therefrom without separating the connection of the bar and arm.

4. A device of the class described including a cover structure within which a book may be separably contained, a bar engaging an element of the cover structure, said element of the cover structure having an aperture through which said bar projects, said aperture being elongated vertically and contracted horizontally to hold the bar in a vertical plane when said bar is in a book-holding position.

In witness whereof, I hereunto subscribe my name this 13th day of February A. D., 1907.

ROBERT J. NICHOLSON.

Witnesses:

G. L. CRAGG,
LEON G. STROH.