





# UNITED STATES PATENT OFFICE.

DANIEL McCANN, OF CHICAGO, ILLINOIS.

## BOOKBINDER.

No. 860,228.

Specification of Letters Patent.

Patented July 16, 1907.

Application filed December 3, 1906. Serial No. 346,114.

*To all whom it may concern:*

Be it known that I, DANIEL McCANN, a citizen of the United States, and a resident of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Bookbinders, of which the following is a specification, and which are illustrated in the accompanying drawings, forming a part thereof.

The invention relates to book binders, and has for its object to provide a book cover and means for securing leaflets or book sections within the cover to form a permanently bound volume.

The invention consists in a structure which is exemplified by the device to be hereinafter described and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view showing the binder open and partially filled with leaves; Fig. 2 is an end elevation of the same; Fig. 3 is a detail plan section on the line 3—3 of Fig. 2; Fig. 4 shows a detail of the binding thread and illustrates the preferred form of stitch employed for securing leaves within the binder; Fig. 5 is a detail side elevation showing a modified form of construction; and Fig. 6 is a detail cross-section taken on the line 6—6 of Fig. 3.

Preferably the binder takes the form of a book cover having side boards or wings 10, 11, and these constitute the so-called front and rear cover members of a volume when the binder is filled with leaves. The wings 10, 11, respectively, are united by a back section 12 which has a flexible connection, as 13, 14, with each. A flap 15, to which leaf sections X may be secured, as by sewing, is formed on the inner face of the cover. As shown, this flap is of binders' board having thread apertures 16, 17, 18 and 19, and has a hinged connection 24 with the cover, preferably formed along one of its marginal edges by means of a fabric which is applied to each of its faces, as indicated at 20 and 21, and is continued over the adjacent portion of the inner face of the book cover, as shown at 22, 23.

Most conveniently the leaves to be bound are secured to the flap 15 by means of threads A, a portion *a* of each being applied to the rear face of the flap between two of the thread apertures, as 16, 17, and both ends of the thread being passed through the flap, as shown at *b*, *c*, Fig. 4, into the fold *y* at the center of the book section X. The ends of the thread are then preferably crossed in the fold of the leaflet and are returned through the flap and knotted together at *d* to form a double stitch.

As shown the flap 15 is substantially coextensive with the back section 12 of the binder, in order that a sufficient number of book sections X may be secured

thereto to completely fill the space between the cover members 10 and 11, and the ends of each thread A are continued from the knot *d* of the stitch provided for securing each of the sections to form a stitch for securing the next succeeding section.

Preferably the thread apertures 16, 17, 18, 19, take the form of slots extending transversely of the flap 15. A corresponding number of rows of circular apertures 27 may, however, be employed to permit the sewing of the book sections, as most clearly shown in Fig. 5. If desired means may be provided for preventing the swinging of the flap 15. As shown, a cleat 25, adapted to engage the free edge of the flap and having a shank 26 which is rotatably mounted in the back section 12 of the binder, is provided for this purpose.

In practice the binder, comprising the cover members 10, 11 and 12 and the flap 15, will be supplied to the user in permanently assembled form, and the leaves to be bound may be secured in place by sewing, as previously described, without the exercise of skill peculiar to the binders' art. When filled with leaves the flap 15 may be secured against the inner face of the back section 12 of the cover by means of the cleat 25, and the device then used as an ordinary book. While I have shown the back section 12 and flap 15 as being of flat form, for the purpose of imparting to the finished volume the rectangular outline now much desired in book binding, obviously these may be bowed to the customary rounded form of the back of a book, or they may be sufficiently flexible to assume that form in use. The flap 15 may, if desired, be formed of sheet metal.

I claim as my invention—

1. In a book binder, in combination, a cover comprising a pair of side boards and a back section uniting such boards, and a flap of binders' board having thread apertures hinged to the inner face of the cover adjacent one of the edges of the back section.

2. In a book binder, in combination, a cover comprising a pair of side boards and a back section uniting such boards, and a flap of binders' board hinged to the inner face of the cover adjacent one of the longitudinal edges of the back section and having a plurality of pairs of transverse slots adapted to permit of sewing through the flap.

3. In a book binder, in combination, a cover comprising a pair of side boards and a back section uniting such boards, and a flap adapted for the attachment of sheets thereto coextensive with the back section of the cover and formed of binders' board covered with fabric, the fabric being continued over the inner face of the cover adjacent one of the longitudinal edges of the flap to form a hinge.

4. In a book binder, in combination, a cover comprising a pair of side boards and a back section uniting such boards, and a flap adapted for the attachment of sheets thereto coextensive with the back section of the cover and

formed of binders' board having both of its faces covered with fabric, the fabric being continued from each face of the flap over the inner face of the cover adjacent one of the longitudinal edges of the flap to form a hinge.

5. As an article of manufacture, a book comprising a cover having side boards united by a back section, a flap coextensive with the back section of the cover united by a hinge to the inner face of the cover adjacent one of the longitudinal edges of the back section and having a pair of  
10 transverse thread apertures, and a plurality of leaf sec-

tions each having a folded edge, each of the leaf sections being bound within the cover by threads passed through the folded edge of the leaf section and through the thread apertures of the flap and being knotted together at the back of the flap.

DANIEL MCCANN.

Witnesses:

CHARLES B. GILLSON,  
E. M. KLATCHER.