Aug. 18, 1925. 1,550,050

J. SCHADE

LOOSE LEAF BOOK

Filed June 11, 1924 2 Sheets-Sheet 1

Fig. 1.

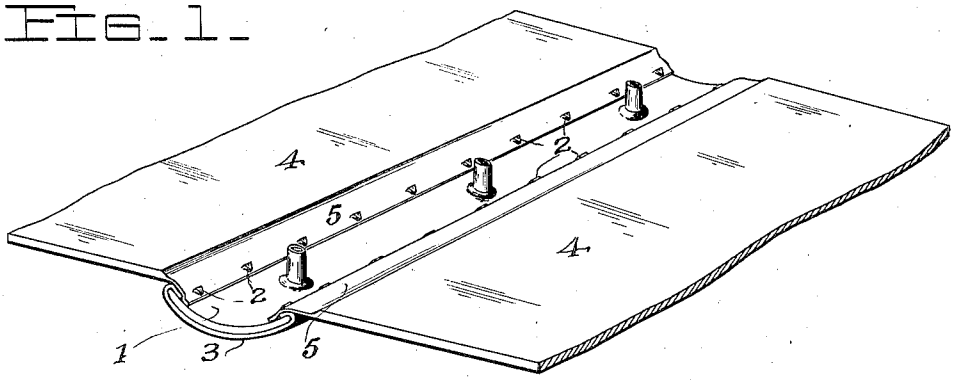


Fig. 3.

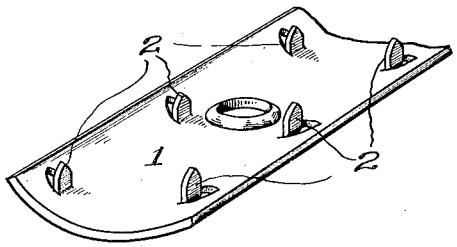


Fig. 2.

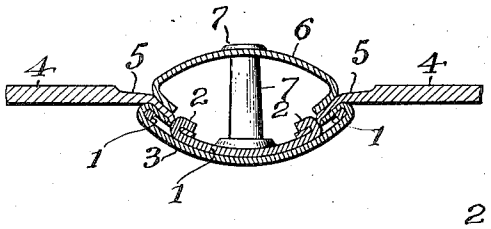


Fig. 4.

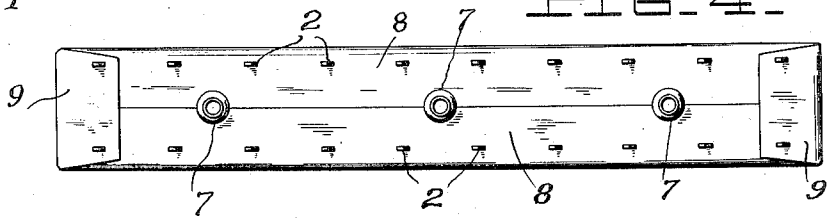
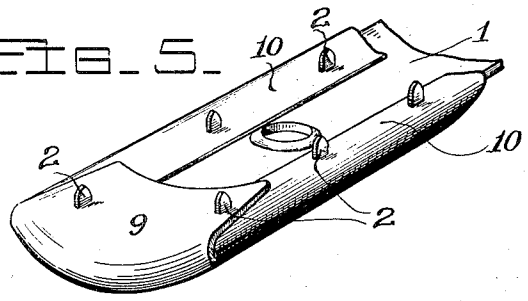


Fig. 5.



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Filed June 11, 1924 2 Sheets-Sheet 2

Fig. 6.

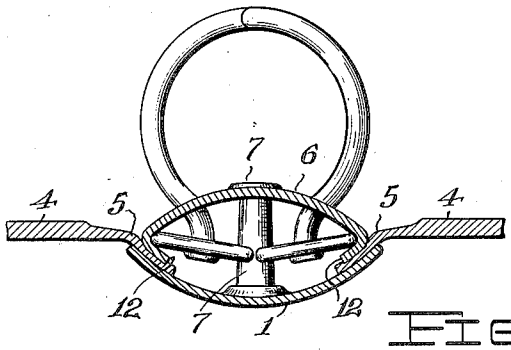


Fig. 8.

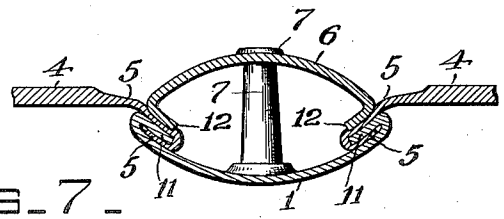


Fig. 7.

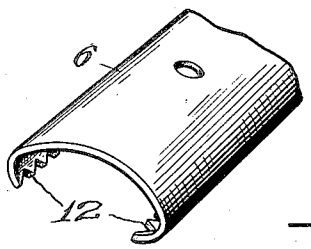


Fig. 9.

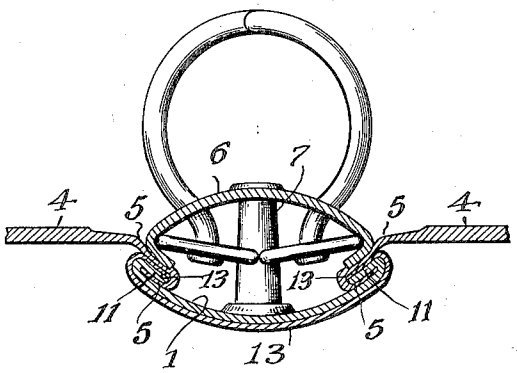
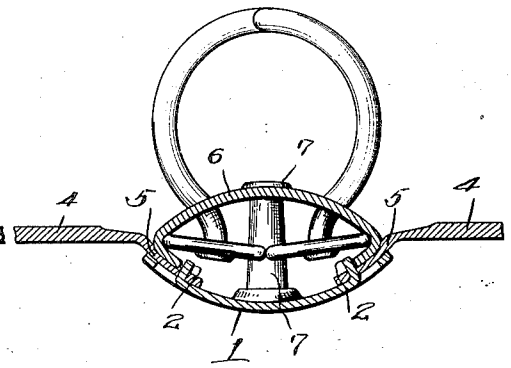


Fig. 10.



Inventor

John Schade

by

Attorney

Patented Aug. 18, 1925. 1,550,050

UNITED STATES PATENT OFFICE.

JOHN SCHADE, OF HOLYOKE, MASSACHUSETTS, ASSIGNOR TO NATIONAL BLANK BOOK COMPANY, OF HOLYOKE, MASSACHUSETTS, A VOLUNTARY ASSOCIATION OF COPARTNERSHIP, HAVING AS TRUSTEES F. B. TOWNE, E. S. TOWNE, J. M. TOWNE, AND F. W. WILSON.

LOOSE-LEAF BOOK.

Application filed June 11, 1924. Serial No. 719,282.

To all whom it may concern:

Be it known that I, JOHN SCHADE, a citizen of the United States, and a resident of Holyoke, Hampden County, Massachusetts, have invented certain new and useful Improvements in Loose-Leaf Books; and I do declare the following to be a full, clear, and exact description of the invention such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to loose leaf books, but more particularly has reference to a book of this description in which the side covers are separate elements that are secured in position to the back portion of the book.

The main objects of the invention are to present a structure which has all the advantages in appearance of a one piece structure in which latter the back and side covers are made from an integral piece of leather or other suitable flexible material, a further object being to greatly economize in the construction of the book, it being a comparatively expensive matter, involving waste in a good many instances, to cut the side covers and back from a single piece of suitable material. Further objects will appear from the following description taken in connection with the accompanying drawings in which

Figure 1 is a perspective view illustrating the side covers and back portion of my improved book in proper assembled condition—

Figure 2 is a cross section of the structure shown at Figure 1 with the cover plate in position—

Figure 3 a broken perspective view of the metal back plate—

Figure 4 is a plan view of the back plate as it appears with one form of covering—

Figure 5 is a broken perspective of the back plate showing another manner of covering the ends, back and side edges thereof—

Figure 6 is a view similar to Figure 2 but showing the covers secured in position by gluing to the upper faces of the back plate, and firmly held by the lower edges of the cover plate—

Figure 7 is a broken perspective illustrating the cover plate employed in the construction shown at Figure 8—

Figure 8 is a view similar to Figure 2 showing a modified way of securing the covers to the back plate—

Figure 9 is a view similar to Figure 6 showing particularly one way of securing the cover for the back plate, and the side covers, in the completed article, and

Figure 10 is a view similar to Figure 2, but showing the spurs of the back plate upstanding.

Similar numerals of reference denote like parts in the several figures of the drawing.

Before entering upon any description of this invention, it will be well to state that the object of providing a cover for the outside surface of the metal back plate, is to afford the appearance of a structure in which the covers and back of the book are of one integral piece of flexible material, and from the description, hereinafter to be made, it will be clear that this cover may be secured in position in several ways, or may be entirely omitted, as may be desired, the object of its inclusion being merely to show the possibilities of the structure with no intention whatever of limiting the invention.

Referring to Figures 1, 2, and 3, of the drawing, 1 is a metal back plate having lanced therefrom spurs 2; 3 is a cover for the outside surface of this plate, the side edges of this cover being turned over the side edges of the plate 1 and secured thereto by gluing.

4 are the side covers of the book which are made of leather or other suitable material having their inner edges skived and reduced in thickness as shown at 5, which inner edges are impaled upon the spurs 2 at the opposite side edges of the metal back plate and these spurs are then preferably turned down against these skived portions 5, as shown at Figure 2. If necessary, these portions 5 may also be glued to the metal back plate, and also glued to the turned over edges of the cover 3, these matters being mere details.

The cover plate 6, which carries the ring structure, is secured in position with its lower edges firmly bound against the skived portions 5 of the side covers, by means of eyelets 7 in the usual manner, as illustrated at Figure 2.

It will of course be readily appreciated that the entire back plate may be covered

by a special envelope of suitable material, as indicated at 8 in Figure 4, and the spurs 2 would project through this envelope, and it will be observed that the latter is provided with end flaps 9, so that in the completed book no part of the plate 1 will be exposed. The sides of the covering envelope, such as is shown in Figure 4, may not extend to the central portion of the plate 1, as illustrated at 10 in Figure 5.

While it is preferred to provide the spurs 2 the latter are, nevertheless, not absolutely necessary, since the skived portions at the inner side edges of the covers may be glued directly to the inner face of the plate 1, and their permanency in this position insured by the clamping action of the lower edges of the cover plate 6, as is shown at Figure 6.

Also, the side edges of the plate 1 may be turned over to form overhanging portions 11 that are spaced from the inner surface of the plate, and the skived portions of the covers may extend over these flanged portions within this space, and be securely held in position by means of the lower edges of the cover plates 6, as shown at Figure 8, these lower edges being toothed or serrated as shown at 12 in Figure 7, so that they will embed themselves somewhat within the skived portions 5.

Should it be necesary to provide the construction shown at Figure 8 with a cover for the back plate 1, a suitable cover 13 can be glued to the back of the plate and its side edges folded over the side edges of the plate and then glued down upon the overhanging portions 11 between the latter and the skived portions 5, as shown at Figure 9.

It is preferred that the spurs 2 be clinched down against the upper faces of the skived portions 5, as shown at Figures 1 and 2, but this clinching is not necessary, since these skived portions can be glued directly to the inner face of the back plate, with the spurs piercing the same and upstanding, as shown at Figure 10, the cover plate 6, when clamped in position, binding at its lower edges against these skived portions, and by reference to Figure 10, it will be observed that these upstanding spurs in no wise interfere with the action of the ring operating devices that are contained within this plate 6.

It will thus be noted that a loose leaf book with flexible covers has been provided in which all the advantages of a one piece structure are apparent, and it will further be observed that the skiving at the inner edge portions of the covers will enable the latter to be opened and closed with great facility.

What is claimed is:—

1. A loose leaf structure, comprising a metal back plate, separate covers having their inner edges skived, and means for securing said covers at their skived portions to the side edges of said plate.

2. A loose leaf structure, comprising a metal back plate, a suitable covering for the outer faces thereof, spurs lanced from the upper face of said plate, and separate covers having their inner edges skived and secured at these skived portions to the back plate by said spurs.

3. A loose leaf structure, comprising a metal back plate, a suitable covering for the outer faces thereof, clinching members integral with said plate, and separate covers having their inner edges reduced in thickness and secured at these reduced portions to the back plate by said members.

4. A loose leaf structure, comprising a metal back plate, separate covers having the outer faces of their inner edge portions an unbroken continuation of the outer side faces of the covers, said inner edge portions being reduced in thickness, and means integral with the metal back plate for clinching said portions at the side edges of said plate.

In testimony whereof I affix my signature hereto.

JOHN SCHADE.