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1,466,618

G. S. FRY

BOOKBINDING

Filed June 9, 1922

Fig. 1.

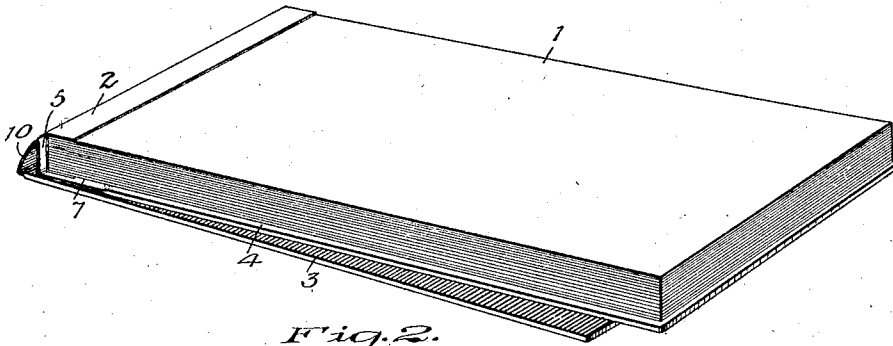


Fig. 2.

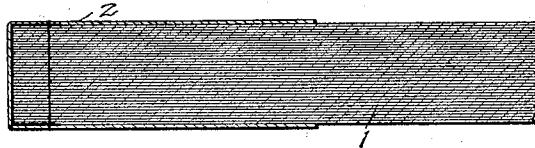


Fig. 3.

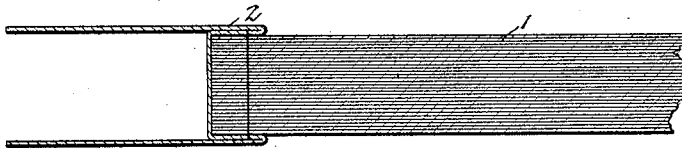


Fig. 4.

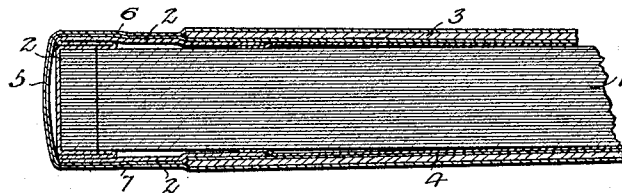
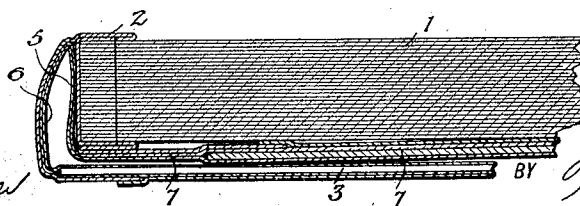


Fig. 5.



WITNESSES

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UNITED STATES PATENT OFFICE.

GUY S. FRY, OF YONKERS, NEW YORK.

BOOKBINDING.

Application filed June 9, 1922. Serial No. 567,054.

To all whom it may concern:

Be it known that I, GUY S. FRY, a citizen of the United States, and a resident of Yonkers, in the county of Westchester and State of New York, have invented a new and Improved Bookbinding, of which the following is a full, clear, and exact description.

This invention relates to book bindings, and has for an object the provision of means whereby the strain between the boards of the cover and the back of the book is eliminated when the cover is turned back past the point of the hinge or the plane of the corresponding side of the book body portion.

Another object resides in a sufficiently flexible connection between the stiff portion of the cover and the edge of the body portion of the book to which it is hinged to permit the cover portion to be swung completely around beneath the body portion and lie adjacent the other cover portion without any strain whatsoever on the parts.

A further object resides in the particular construction and arrangement of parts which are hereinafter described and claimed and shown in the accompanying drawings.

The invention is illustrated in the drawings, of which—

Figure 1 is a perspective view of a book showing one of the cover portions swung around and lying beneath the under face of the body portion of the book.

Fig. 2 is a longitudinal cross section of the body portion showing it with one element of the flexible cover portion or connection attached.

Fig. 3 is a similar section showing a further step in the arrangement of the flexible connection.

Fig. 4 is a similar section showing the cover portion in its normal relation to the body portion.

Fig. 5 is a similar section showing the relation of one of the cover portions when it is swung around beneath the book or body portion.

The form of the invention shown in the drawings is a preferred form, although it is understood that modifications in the construction and arrangement of the parts and in the character of the materials used may be adopted without departing from the spirit of the invention.

The invention as shown in the drawings

is, of course, only one application of the idea, and the binding is adapted to be attached to a body portion 1. A tough, strong fabric, preferably in the form of a continuous sheet of material 2, is bound to the desired edges of the leaves of the body portion 1 and the free portion thereof is then bent back, as shown in Fig. 3. That part of the free portion which abuts the section of the sheet bound to the body portion of the leaves is connected thereto by any suitable means, such as adhesive.

The free edges are then bent forward so that adjacent the bound edges of the body portion 1 there are three folds of this binder material. The purpose of bending the binder strip back into the position shown in Fig. 3 is that when the free portion is bent forward again into the position shown in Fig. 4, the pivot line of the strip and, consequently, the pivot line of the cover which is fastened to the strip will be substantially coincident with the rear edge of the body portion. The additional length of material is connected in any suitable manner, such as by gluing, to the inner portion of a cover. This cover portion comprises relatively stiff portions 3 and 4 which are connected together by a relatively flexible portion 5 which extends from one edge of one stiff portion, around the bound edges of the body portion, to an edge of the other stiff portion.

These lengths of the flexible portion of the cover are indicated by the numerals 6 and 7, and it is to the inner faces of these portions and the adjacent portions of the stiff parts 3 and 4 of the cover that the binder element 2 is fastened in the manner above described.

As shown in Fig. 4, I have, therefore, a cover portion for both the upper and lower faces of the body portion of a book. Each of these cover portions comprises a stiff portion between which and the bound edge of the book is disposed a relatively flexible cover portion, one edge of the flexible portion being suitably connected so that the flexible and the stiff portions can be swung around this bound edge to dispose the stiff portion underneath the book. The length of the flexible portion, by being at least equal to the thickness of the book, permits this disposition of the stiff portion of the cover without any strain on the parts of the book.

Therefore, if a person wishes to fold the top cover back in this manner, he can do so without injuring the binding, and is enabled to use the book and turn the pages thereof without having the book occupy any more space than necessary, the leaves of the book, of course, being flexible enough to be folded beneath the book without injury. It is, of course, understood that the detail manner of making the binder element and the parts of the cover portion are only illustrative as to one means of relating them, other methods being adaptable to produce a book involving this inventive idea.

It is to be observed, therefore, that I have provided a simple, efficient, strong, durable binding between the body portion of a book and the cover. This cover is hingedly connected to a body portion by having a flexible part thereof disposed between a relatively stiff part thereof and the hinge, the flexible portion being at least equal in length to the thickness of the book to permit the disposition of the cover as above referred to, and hinged to the body portion along the line coincident with the rear edge of the body portion.

What I claim is:

1. In combination with the body portion of a book, a flexible binder element disposed around the bound edge of the body portion, said element connected along certain portions to the body portion and having free ends, a cover having a flexible portion connected to the free ends of the binder element, and relatively stiff portions connected to the flexible portions, the dimensions of the free ends of the binder element and the

flexible portion of the cover permitting either one of the stiff portions of the cover to be swung around beneath the body portion without straining the binding.

2. In combination with the body portion of a book, a cover portion pivotally connected thereto, the pivot line being substantially coincident with the line of the rear edge of the body portion, said cover portion adjacent the pivot line being flexible, said flexible portion having a width at least equal to the depth of the body portion.

3. In combination with a book body portion, a binder strip fastened along its intermediate portion and the rear surface of the leaves of the body portion and also along the rear edges of the outer leaves of the body portion a short distance therealong from the rear edge of said leaves, the free portion of the binder strip being bent backward on itself and then bent forward again, the line of binding occurring along a line substantially coincident with the rear edge of the body portion, a cover portion comprising flexible sections and stiff sections, the flexible sections passing around the bound end of the body portion of the book and being fastened to the binder strip, the free ends of the binder strip being connected to the stiff part of the cover portion, the flexible sections of the cover portions extending along the body portion a distance at least equal to the depth of the body portion so that the stiff part of the cover portion can be bent around beneath the body portion without straining the binding.

GUY S. FRY.