

(No Model.)

H. D. HONEY.
BOOK.

No. 436,758.

Patented Sept. 16, 1890.

Fig. 1.

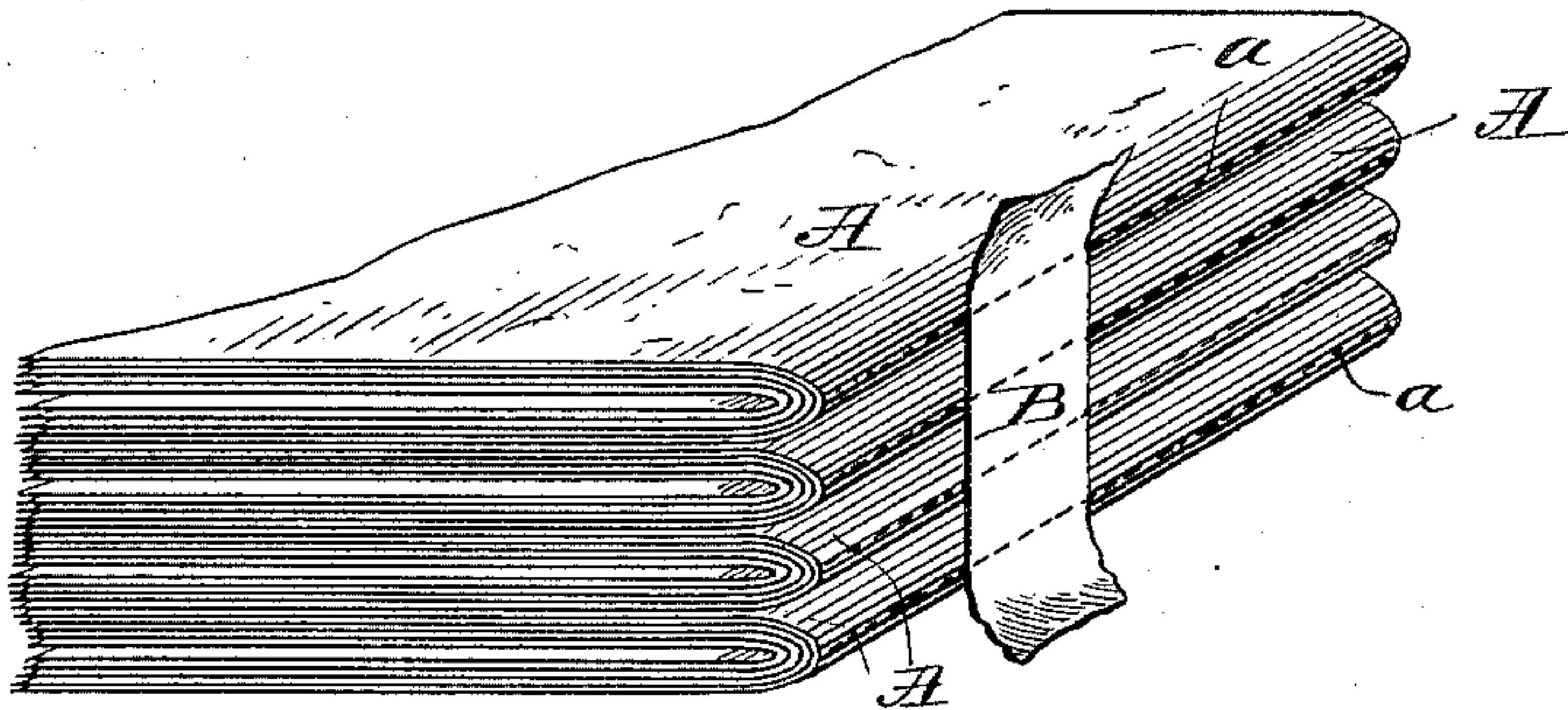


Fig. 2.

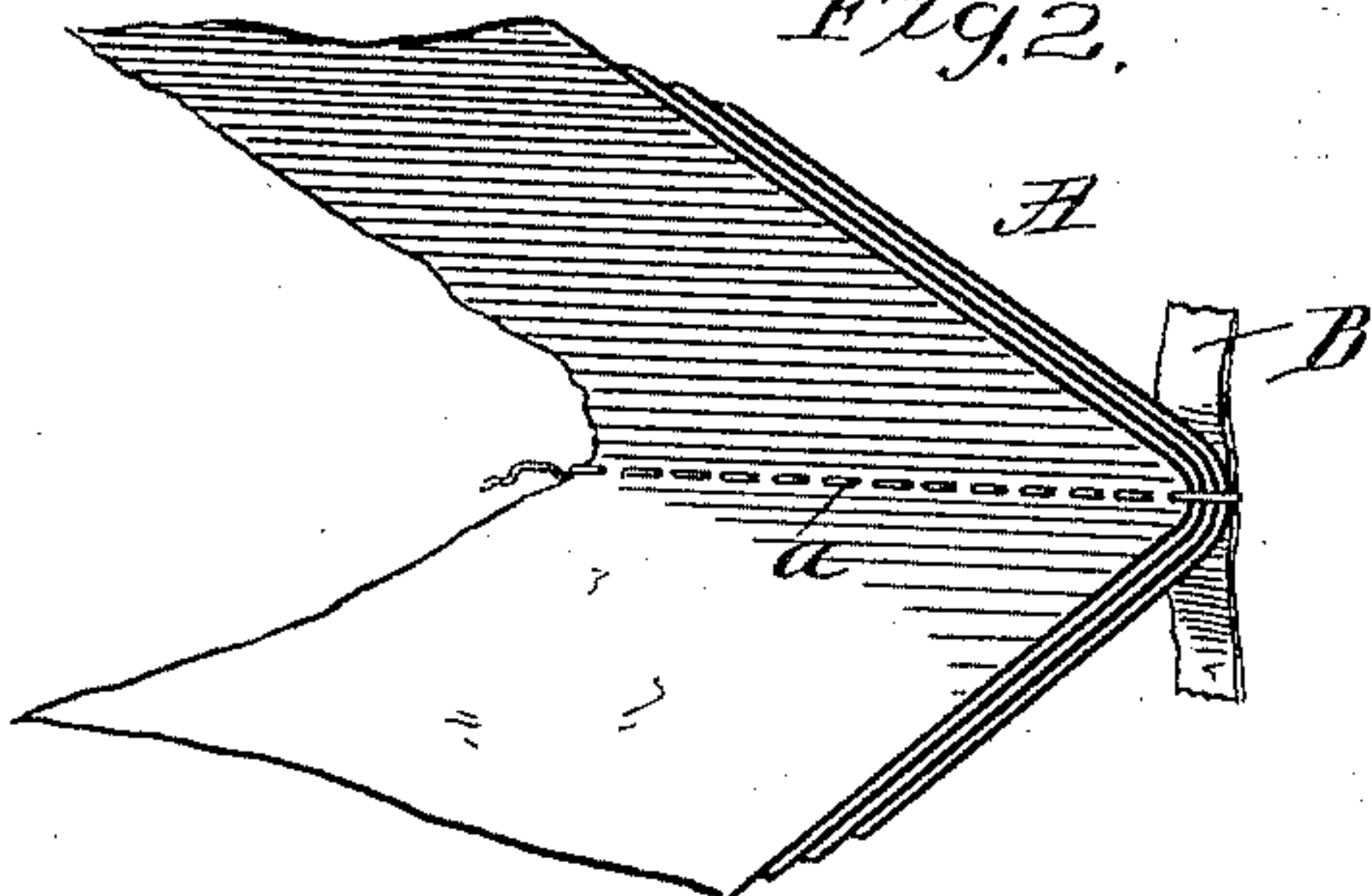
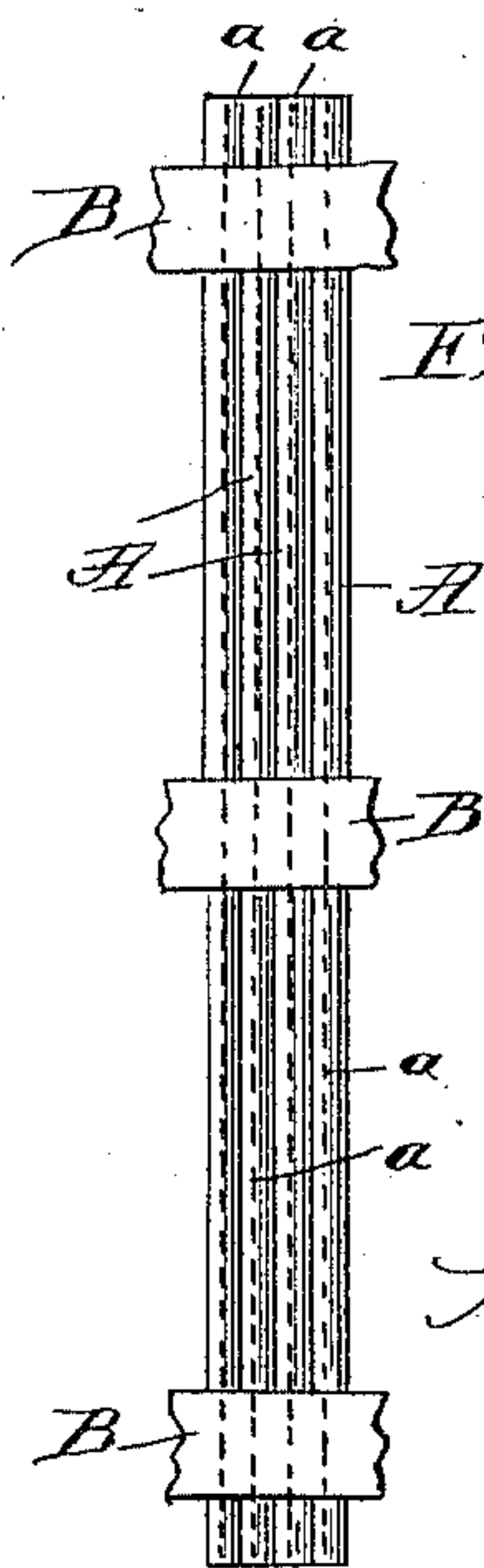


Fig. 3.



Witnesses:
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UNITED STATES PATENT OFFICE.

HORACE D. HONEY, OF HOLYOKE, MASSACHUSETTS, ASSIGNOR OF ONE-HALF
TO EDMUND N. MARTINEAU, OF SAME PLACE.

BOOK.

SPECIFICATION forming part of Letters Patent No. 436,758, dated September 16, 1890.

Application filed August 9, 1889. Serial No. 320,310. (No model.)

To all whom it may concern:

Be it known that I, HORACE D. HONEY, a citizen of the United States, residing at Holyoke, in the county of Hampden and State of Massachusetts, have invented new and useful Improvements in Books, of which the following is a specification.

This invention relates to the manufacture of books, and particularly to improved means for binding or attaching the leaf-sections thereof together, the object being to improve on the construction of books as heretofore made by the ordinary method of hand-sewing the sections together, and to provide means for attaching said sections each to the others, which make such attachments stronger and more durable, and whereby the above-mentioned primary operations in book-binding are rendered less expensive than by the means heretofore practiced.

In the accompanying drawings, forming part of this specification, this invention is illustrated, Figure 1 being a view in perspective of portions of several leaf-sections connected together in accordance with this invention. Fig. 2 is a perspective view of a part of one leaf-section and the attached band for connecting several leaf-sections together, and Fig. 3 is a back edge view of several leaf-sections connected together under this invention.

In the drawings, A A represent several leaf-sections, each of which leaf-sections comprises a plurality of superposed sheets folded centrally, as usual, on the folding-lines *a a*, each of which folding-lines is common to all leaves in the leaf-section.

B B represent bands or strips of elastic webbing or other suitable elastic sheet material, placed transversely of the back edges of the folded leaf-sections, and to which the said sections are secured by stitching at the same time that the leaf-sections are stitched together by the said lines of stitches *a*. The said elastic webbing is referred to as a material which may be advantageously employed, as aforesaid, for the reason that when the said leaf-sections are sewed together and to said bands the elastic nature of said webbing affords certain conveniences of manipulation not pertaining to non-elastic bands, in that the section being last operated upon may be slightly separated, while being sewed, from the other sections,

and after said sewing operation the last-sewed section will, by the elasticity of the band, be drawn closely against the other sections. The sheets of each leaf-section, as shown, are united by a longitudinal line of stitching *a*, at and through the place of the fold, said stitches for each leaf-section (or a portion thereof) passing also through the said elastic cross-bands B. The attachment of the leaf-sections A to each other by the said elastic strips or bands B results in such a connection or unison of said sections preparatory to the usual succeeding operation in book-binding of "gluing up and rounding" as results in a firmer and more durable connection of said sections than is attained by methods heretofore employed, and is less expensive than the latter.

Another advantage to be derived by the construction described is that the connection of the leaf-sections with the elastic strips or bands renders the leaves capable of being readily spread flat and clear from each other practically into the line of their connection with the said elastic back strips, and yet, on closing the book, the back portion thereof will be contracted under the action of the elastic strips to overcome all tendency of distortion or spreading, which would otherwise ensue from a protracted maintenance of the book in a wide-opened condition.

What I claim as my invention is—

As an improved article of manufacture, a book comprising a series of leaf-sections, each of which consists of a plurality of superposed leaves all folded in a common median line, the bands of elastic material crossing the folded edges of said several leaf-sections and the line of stitches for each leaf-section passing through and through the sheets thereof and through said elastic cross-bands at the said line of fold, securing the sheets of each section together and to said elastic cross-bands and holding the backs of the several leaf-sections together under a lateral yielding pressure, all substantially as described and shown, and for the purpose set forth.

HORACE D. HONEY.

Witnesses:

G. M. CHAMBERLAIN,
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