

(No Model.)

J. G. BAST.
BOOKBINDING AND BOOK.

No. 495,771.

Patented Apr. 18, 1893.

Fig: 1.

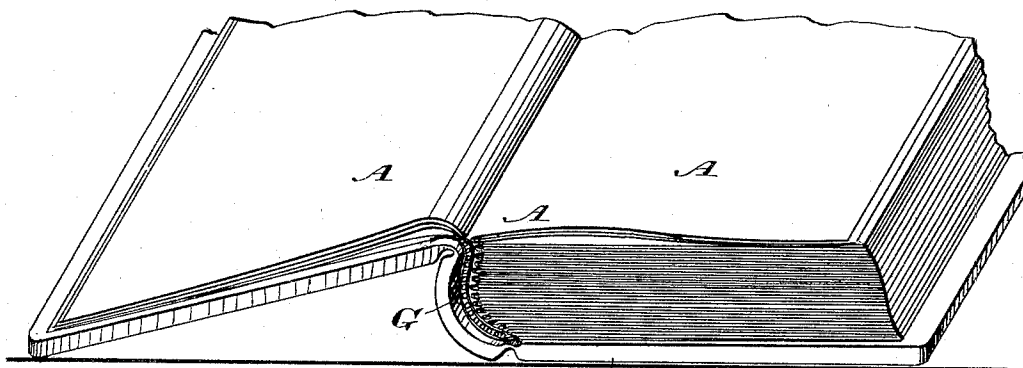


Fig: 2.

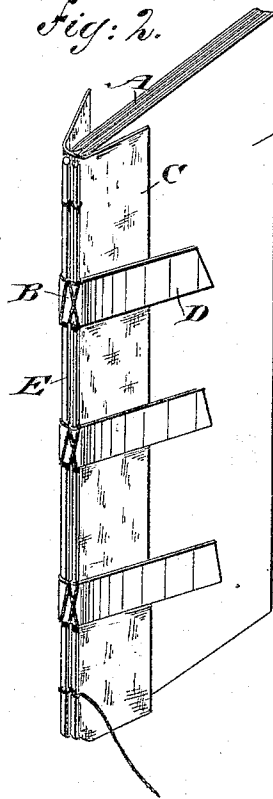
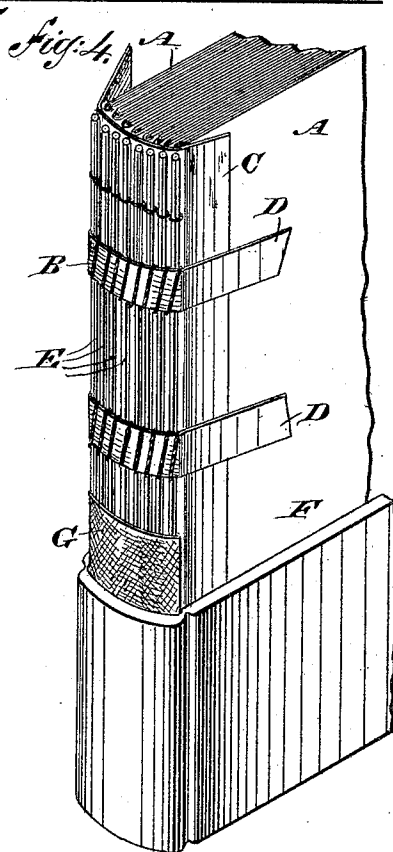
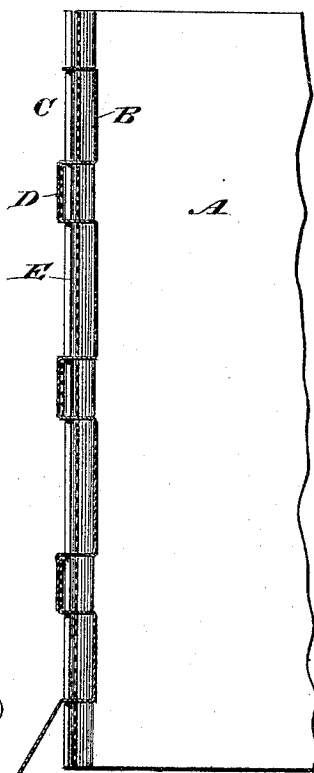


Fig: 3.



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JOHANN G. BAST, OF BROOKLYN, NEW YORK.

BOOKBINDING AND BOOK.

SPECIFICATION forming part of Letters Patent No. 495,771, dated April 18, 1893.

Application filed February 3, 1892. Serial No. 420,141. (No model.)

To all whom it may concern:

Be it known that I, JOHANN G. BAST, of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Bookbinding and Books, of which the following is a full, clear, and exact description.

The object of the invention is to provide certain new and useful improvements in book binding, and the book produced thereby, and which is more especially designed for manufacturing blank books, combining strength with durability and arranged to have the leaves lie perfectly flat when the book is opened or spread.

The invention consists in certain improvements in the art of book binding, as will be hereinafter described and claimed.

The invention further consists of a series of sections, a rod held on the back of each section, a cord for uniting the leaves of each section with each other, and the latter to its respective rod, and also the several rods and sections together.

The invention also consists of certain parts and details and combinations of the same, as will be hereinafter described, and then pointed out in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of the improvement showing the complete book in an open position. Fig. 2 is a perspective view of two sections. Fig. 3 is a transverse sectional view of the improvement; and Fig. 4 is a perspective view of the improvement with part of the cover cut away.

The improved book is provided with a series of sections A, the leaves of each of which are fastened together at the middle in the usual manner by a binding cord or thread B, which, after passing through the several leaves at the back thereof, passes through a strip C of canvas, paper or other material held loosely on the backs of the several sections. The binding cord or thread B, after passing through the strip C, is passed diagonally over a binding strip D of leather, canvas or other suitable material, the said strip being held or extended over a rod E placed between the strips

D and C on the back of a section, the said rod being made of wood or other suitable material and extending throughout the height of the section. As illustrated in the drawings, the loose strip of canvas C extends throughout the height of the several sections, and is of sufficient width to pass a short distance onto the end sections, as plainly indicated in Fig. 4.

The binding strips D of which there are two, three or more, are of sufficient length, so as to project beyond the last sections to be united with the cover F of the book, so as to hold or bind the several sections, and their rods and strips C, to the covers of the book. In order to cover up the several rods E, and the binding strips D, a strip of canvas or other suitable material G, is pasted, glued or otherwise fastened to the rods E, the strips D and part of the strip C, as plainly shown in Fig. 4. Thus, when the book is open as illustrated in Fig. 1, only the ends of the rods E are visible.

In making the book I first unite the leaves of a section A by the binding cord or thread B, the latter being passed through the loose strip C, past one side of the rod E, and the upper edge of the strip D, to be then crossed over the latter, and passed back on the opposite side of the rod E, through the strip C and the several leaves of the section A to the inside thereof, to be then extended downward in the crease and passed out again in the same manner as above described to engage the second strip D, the rod E and the strip C in the same manner. The binding cord or thread is then again passed through the several leaves of the section to the inside, to be again extended downward and passed out again to unite the third strip D with the rod and strip C in the manner above described. Thus, any desired number of binding strips D are attached and united with the rod E to the section. The next section A is then placed alongside the first section and bound to a second rod, by the same strips C and D, in the manner above described and by the same binding cord or thread B. In order to conveniently hold the second rod in place it is preferably attached at its upper and lower ends to the first one, so as to enable the operator to conveniently sew on the second section. The above described operation of attaching

one section after the other to the previous one, to its rod and the strips C and D, is repeated until the book is of the desired thickness. The united sections are then covered by the strip G at the back, as above described. The united sections are then bound into the cover F by the ends of the strips D in the usual manner.

By using the loose strip C at the back of the several sections, the book when opened between two adjacent sections does not show a slot or recess, which would occur if the loose strip C was omitted. It will be seen that a book constructed in this manner combines great strength with durability, permits of opening the book with great ease, at the same time having all the leaves lying flat so that entries can be made in a very convenient manner.

I am aware that blank books have been bound with a flexible joint between the sections and the back of the book, and I am also aware that the sections of the book are attached to the back by means of an intervening compact round or oval body to which the sections are attached by a flexible joint, but I do not broadly claim such construction.

I am also aware that books have been constructed in which the sections are sewed to each other and connected with transverse bands by means of thread loops formed on the inside as well as on the outside of each separate section, the loops being connected with each other at one end thereof and on the outside of the section by knots as is shown in Patent No. 467,076, granted to J. D. Bauer, January 12, 1892.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. The method of book binding, which consists in simultaneously securing a rod to the back of a section and transverse strips to the rod by passing the binding thread around the rod and said strip at the several points where the thread extends through the back of a section and then extending the thread to the next section and connecting its rod and the said strips in the same manner until the desired number of sections are so connected and provided with rods and strips, substantially as set forth.

2. The above described improvement in a book binding, comprising a series of sections, a rod held on the back of each section, and a binding cord or thread for uniting the leaves

of each section and fastening the rod to the section and also flexibly connecting the several sections of the book with each other, substantially as described.

3. The above described improvement in a book binding comprising a series of sections, a rod held on the back of each section, a binding strip or strips extending transversely across the said rods on the outside thereof, and a binding thread or cord for uniting the leaves of each section, fastening the respective rod to its section and the binding strip to the rods, and also flexibly connecting the several sections of the book with each other, substantially as described.

4. The above described improvement in a book binding comprising a series of sections, a rod held on the back of each section, a binding strip or strips extending transversely across the said rods on the outside thereof, a binding thread or cord for uniting the leaves of each section, fastening the respective rod to its section and the binding strip to the rods, and also flexibly connecting the several sections of the book with each other, and a loose strip of material placed between the rods and backs of sections, substantially as shown and described.

5. An improvement in a book binding, consisting of a series of sections, a rod held in the back of each section, a binding cord or thread for uniting the leaves of each section with each other and each section to its respective rod and the several rods and sections together, binding strips held at the back of the rod by the said binding cord or thread, a loose strip of material placed between the rods and backs of the sections, and a strip of canvas fastened to the back of the said rods, binding strips and loose strip, substantially as shown and described.

6. A book, comprising a series of sections, a binding cord or thread for fastening the several leaves of each section together, and also uniting the several sections with each other a rod held on the back of each section and hinged by the said binding cord or thread, and binding strips held on the said rods by the said binding cord or thread, and a cover connected with the projecting ends of the said binding strips, substantially as shown and described.

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