

(No Model.)

D. K. HOWE.
BOOKBINDING.

No. 502,493.

Patented Aug. 1, 1893.

Fig. 1.

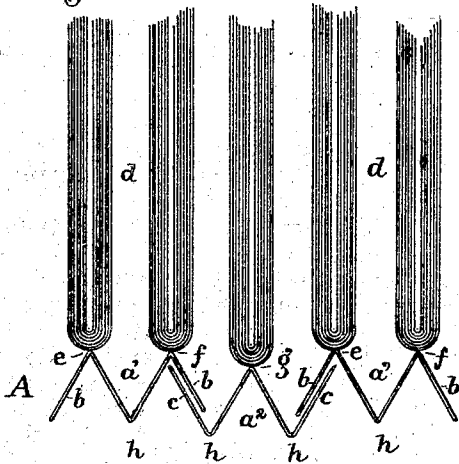


Fig. 2.

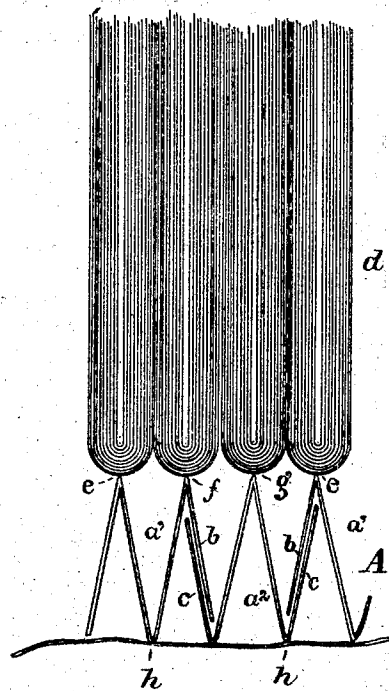
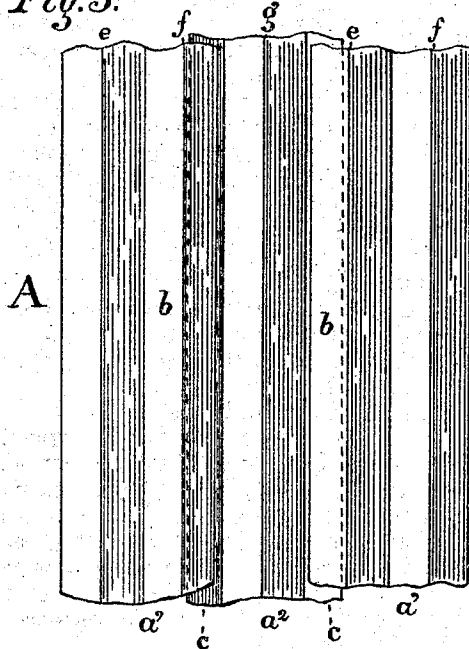


Fig. 3.



Witnesses:

W. B. Ames,
G. C. Moser,

Daniel K. Howe

Inventor,
by *P. Heisler*
his Attorney.

UNITED STATES PATENT OFFICE.

DANIEL K. HOWE, OF PORTLAND, OREGON.

BOOKBINDING.

SPECIFICATION forming part of Letters Patent No. 502,493, dated August 1, 1893.

Application filed April 29, 1892. Serial No. 431,210. (No model.)

To all whom it may concern:

Be it known that I, DANIEL K. HOWE, a citizen of the United States, residing at Portland, Multnomah county, and State of Oregon, have
5 invented a new and useful Improvement in Bookbinding, of which the following is a specification, reference being had to the accompanying drawings as a part hereof.

My invention concerns the improvement of
10 the present usual method of binding books in which it is desirable that the leaves thereof lie flat at whatever page the book may be opened. The usual way of accomplishing such binding is by attaching a series of clusters of leaves to
15 the inner or upper apexes of a series of zig-zag folds of a stub-strip, and my invention has for its object the improvement of this stub-strip for the purpose of simplifying and facilitating the labor of attaching the leaves
20 of the book thereto. A continuous stub-strip is seriously objectionable, for the weight of the paper of the leaves, as cluster after cluster is attached to such stub-strip becomes greater and greater, all of which the operator must
25 support more or less with muscular force, which is, therefore, very tiring, while if the clusters of leaves are separately attached to separate sections of a stub-strip and then joined together the operator is relieved from
30 the exertion of supporting the weight of a number of clusters of leaves at one time, and may therefore work more rapidly.

My invention is, therefore, designed to use a stub-strip composed of separate sections
35 which may be separately attached to the bridge strip, and which are adapted to interlock with each other when so attached.

The manner of carrying my invention into effect will appear from the accompanying
40 drawings, in which—

Figure 1 is a partial end view. Fig. 2 is also a partial end view on a larger scale, showing the way in which my separate stub-strip sections interlock with each other when at-

tached to the bridge strip; and Fig. 3 is a partial top view of sections of my improved stub strip.

Like letters refer to like parts throughout the several views.

My stub-strip is represented by A in the
50 drawings, and the sections thereof by a' and a^2 the same being constructed out of some suitable material or layers of material having sufficient stiffness. The separate sections are then suitably folded as shown, the leaf-clusters
55 d attached to the apexes of such folds and finally the sections attached to the bridge strip as shown in Fig. 2. When thus attached and arranged the loose ends b of section a'
60 will be locked in between the end folds of section a^2 , and vice versa, and the loose ends c of said section a^2 will be locked in between the end folds of section a' . The advantages of this arrangement are apparent from what has
65 already been stated to all familiar with the art of book binding without further detailing.

I am aware that stub strips in books have heretofore been constructed in separate sections. My invention does not cover this, but
70 consists in an improvement in the construction of such stub-strip sections whereby they are adapted to unite with each other when attached to the bridge strips in the manner above described.

What I claim, therefore, is—

75 A book having a stub-strip consisting of a series of separate alternating sections, a' and a^2 , made of suitable material, each of said sections having unattached ends, b , and c , projecting conversely with respect to each other,
80 the end folds of the respective sections adapted, when attached to the bridge strips, to interlock with each other, substantially as described and set forth.

DANIEL K. HOWE.

Witnesses:

WILEY B. ALLEN,
T. J. GEISLER.