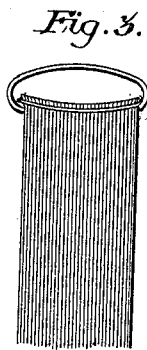
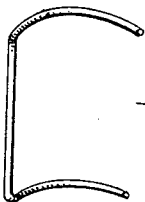
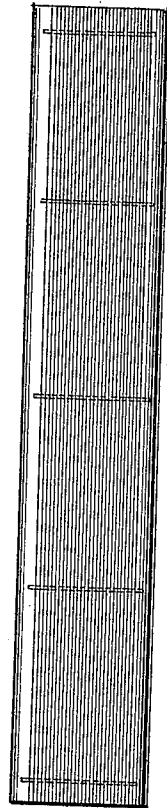
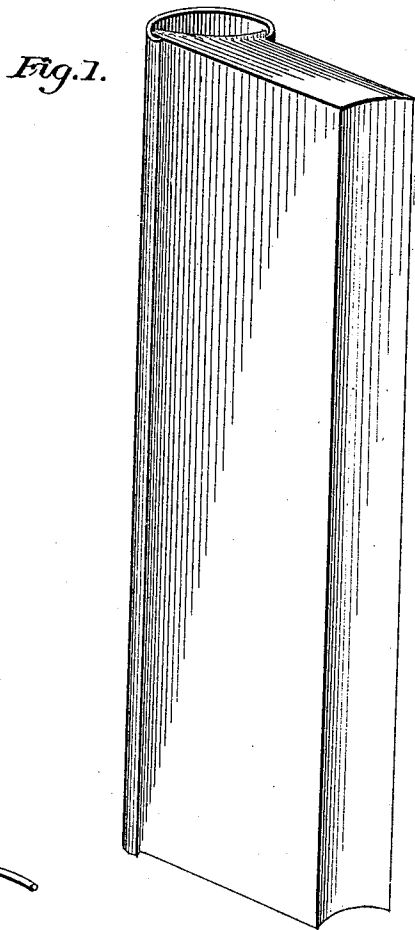


A. & H. M. HOYT.

BOOK-BINDING.

No. 175,707.

Patented April 4, 1876.



*Witnesses:*  
*James Hogg*  
*Charles L. Todd and*

*Inventor:*  
*Azor Hoyt*  
*Howard M. Hoyt.*

# UNITED STATES PATENT OFFICE.

AZOR HOYT, OF BROOKLYN, AND HOWARD M. HOYT, OF NEW YORK, N. Y.;  
SAID AZOR HOYT ASSIGNOR TO SAID HOWARD M. HOYT.

## IMPROVEMENT IN BOOK-BINDING.

Specification forming part of Letters Patent No. **175,707**, dated April 4, 1876; application filed  
February 15, 1876.

*To all whom it may concern:*

Be it known that we, AZOR HOYT, of the city of Brooklyn, county of Kings, State of New York, and HOWARD M. HOYT, of the city, county, and State of New York, have invented a new and useful Improvement in the Method of Book-Binding; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawing and letters of reference marked thereon, forming a part of this specification.

The object of our invention is the securing of greater durability in the binding of books and other similar matter. It consists of a back of metal or other inflexible material pressed on the back edges of the matter to be bound, and held in place by clamped edges overlapping the ends of curved pins, which are inserted in and through the matter to be bound, at such distances from the edge of the back margin, and in such numbers, as the character of the work may require. These pins, thus inserted, are in lieu of the sewing or stitching ordinarily done in the process of book-binding. They are curved for the purpose of enabling the book to open well on its back margin, the curving of the pins effecting the same result as is obtained by what is known as spring-back binding. After the matter to be bound is fastened together by means of these curved pins, the back, made of metal or other inflexible material, is pressed on, and then with the side boards, as in ordinary book-binding, covered with leather, paper, muslin, or other suitable material, and finished by any of the ordinary methods.

In the accompanying drawing, the shape and form of the back are shown in Figure 1. The form of the pins is shown in Figs. 2 and 3, and the two in combination in Fig. 3.

These pins thus inserted are composed of pieces of wire of curved form, with convex facing the front margin, and concave facing the back margin, of the matter in process of binding.

The pins may be used in separate pieces, as shown, Figs. 2 and 3, or they may be connected at the ends by strips of wire, as shown, Fig. 4. Strips of metal similarly formed may be used as a substitute for the wire pin, but we prefer the use of the wire pin as described.

The pins thus described are used in lieu of the sewing or stitching or fastening ordinarily done in the process of book-binding.

The inflexible curve formed in the back margin of the book for the purpose as described, may be formed otherwise than by the use of the pins, but we prefer the use of the pins.

The advantages of our invention over any other method now in use are, first, that the book is stronger and more durable. The back and the pins will resist the severest use. Second, the cost of production is less, from the fact that less time is required to manufacture by this method, and the process is so simple as to be easily performed by unskilled labor.

We claim as our invention—

A back of flexible material, bent inward at the edges, as shown, in combination with curved pins adapted to be inserted through the back margin of the matter to be bound, and projecting under the bent edges of the back, to hold it in place, Fig. 3, as and for the purpose described, to wit: To provide an economical and durable binding for books and other similar matter.

AZOR HOYT.  
HOWARD M. HOYT.

Witnesses:

ALMADUS WILKINSON,  
EDWARD J. CLUMOSKEY.