

G. W. EMERSON.
Binding Books.

No. 150,409.

Patented May 5, 1874.

Fig. 1.

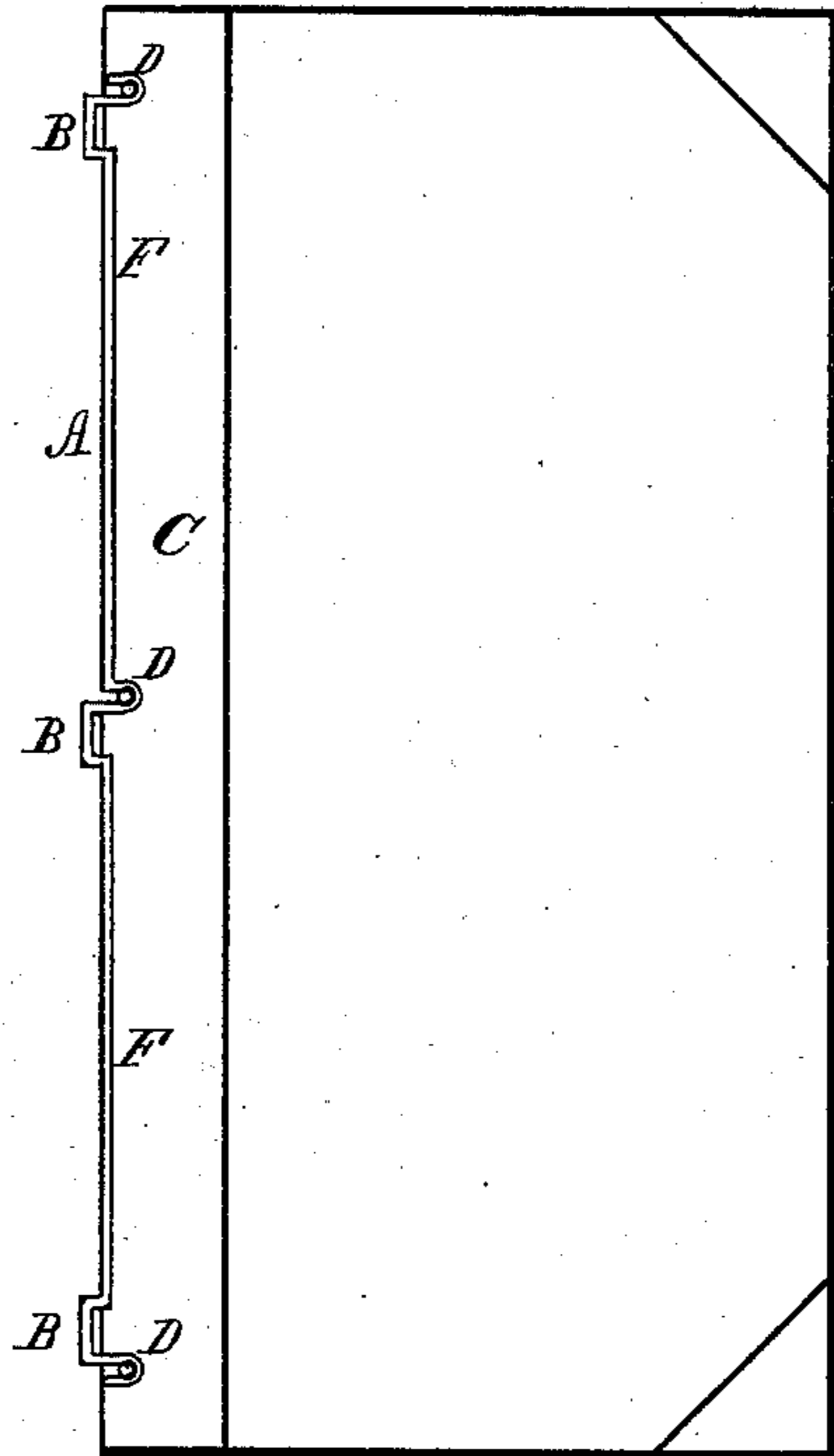


Fig. 2.

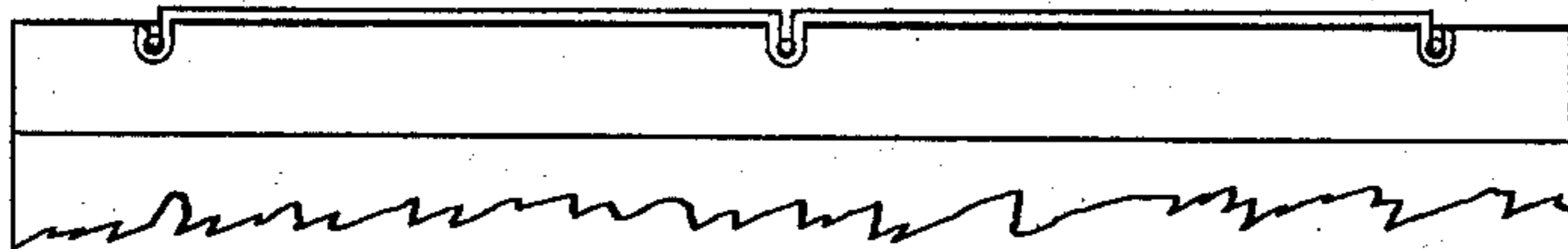


Fig. 3.

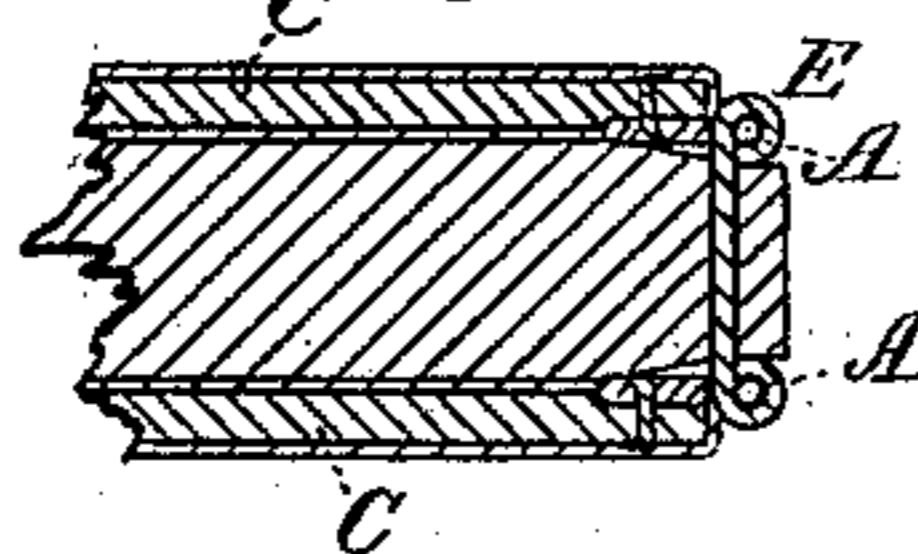


Fig. 4.



Attest.

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UNITED STATES PATENT OFFICE.

GEORGE W. EMERSON, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN BINDING BOOKS.

Specification forming part of Letters Patent No. **150,409**, dated May 5, 1874; application filed March 5, 1874.

To all whom it may concern:

Be it known that I, GEORGE W. EMERSON, of Chicago, in the county of Cook and State of Illinois, have invented an Improvement in Binding Books, of which the following is a specification:

The object of the present invention is the improving of the "Shute patent," granted February 4, 1868, and numbered 74,014. The nature of the invention consists in the peculiar form of the wires or rods to which the clamps are affixed, they being bent so as to form notches or angles in them at intervals, for the purpose of receiving rivets by means of which they are fastened permanently to the lids or covers, and for the purpose of securing the clamps which hold the lids and sheets in place, and preventing the covers from sliding longitudinally relative to each other.

In the drawing, Figure 1 is an inside view of one of the covers of a book provided with my improvement in bent or notched wire for binding. Fig. 2 shows what I call an equivalent device or wire for the same purpose. Fig. 3 is a broken section of a book bound with my improvement in wire fastening. Fig. 4 shows one of the clamps for connecting the wires and the parts together.

In the said Shute patent, the wires or rods to which the clamps fasten are straight, and are held in place only by the cloth or outer cover of the lids; consequently any ordinary wear will loosen the rods, so that they will slide longitudinally and project out at the ends of the book; or, if this be not the case, the clamp will slide on the rods and permit one or both of the covers to project over the end of the book.

To remedy this difficulty, I form the wires or rods A with notches or bent places D, in which rivets are put to fasten the wire firmly to the covers C, and with notches or bent places B, to receive the clamps E, which hold the covers C and sheets together. The straight part F of the wires are laid even with the edge of the covers C, as shown, with the curved parts D overlapping the covers, that the clamps E may be attached without marring the lids. After the wires are fastened to the lids, as set forth, the latter are covered with cloth or leather, in the usual manner, the cloth doubling over the wires to inclose them. The sheets to be bound are then provided with holes at the proper places and placed in position between the covers. The straight ends of the clamps E are put through the outer cloth covering and through the notches D, and through the holes previously made in the sheets. The covers are then pressed closely together, and the straight ends of the clamps are bent or hooked over the notches B on the opposite sides of the cover, as shown in Fig. 3, and the book is complete.

I claim—

As an improvement in the wire fastenings for book-binders, the wires F, provided with the bent or notched parts D, to receive the rivets which fasten the wires to the lids or covers, and the bent or notched parts B, to receive the clamps for holding the lids together, when the several parts are arranged and combined as and for the purpose set forth.

GEORGE W. EMERSON.

Witnesses:

G. L. CHAPIN,
J. H. ELLIOTT.