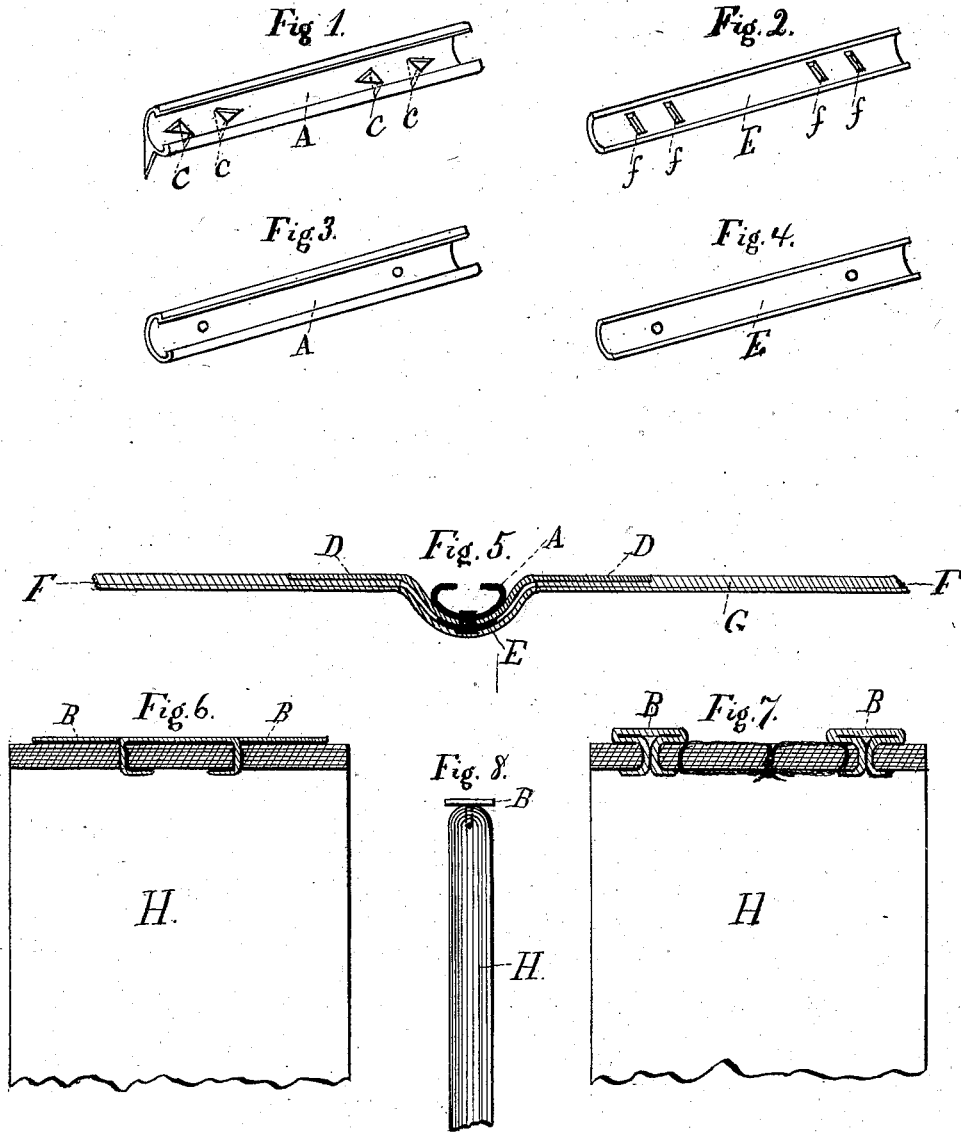


L. D. & I. REYNOLDS.  
BOOKS AND COVERS.

No. 192,878.

Patented July 10, 1877.



Witnesses:

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# UNITED STATES PATENT OFFICE.

LUCIUS D. REYNOLDS AND IRA REYNOLDS, OF DAYTON, OHIO.

## IMPROVEMENT IN BOOKS AND COVERS.

Specification forming part of Letters Patent No. 192,878, dated July 10, 1877; application filed November 18, 1876.

*To all whom it may concern:*

Be it known that we, LUCIUS DELMAR REYNOLDS and IRA REYNOLDS, of Dayton, State of Ohio, have invented certain new and useful Improvements in Metallic Dove-tailed Book-Backs; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Our invention relates to the construction of book-covers and the backs of books in that class where the book may be readily removed from its cover and another one substituted for it; and it consists in combining with the paper which forms the book a metallic or other rigid back piece or pieces, B, secured thereto, and adapted to be inserted in and held by the back of a removable cover; and it further consists in combining a book, all of whose leaves are stitched or fastened through a central fold common to all the sheets, with a removable cover, constructed with a metallic back composed of two plates of metal, holding between them the linen or other flexible back.

In the drawings, Figures 1 and 2 illustrate pieces composing the rigid back of the cover; Figs. 3 and 4, a modification; Fig. 5, a cross-section of the cover; Figs. 6 and 7, sections of the book through the center of its back, and Fig. 8 an edge view of the book ready to be slid into and dovetailed or interlocked with the metallic back of the cover.

A is a piece of metal, preferably arched in cross-section, having its edges bent inward toward each other, and adapted to receive and clasp therein a piece or pieces, B, made of metal, or of any other appropriate material having rigidity enough to be held securely within the piece A. This piece A, as shown in Fig. 1, we make with prongs or points *c* cut or struck therefrom, whereby the piece may be secured to the linen or flexible lining or backing piece D of the cover; and E, Fig. 2, is another plate of metal placed at the opposite side of this strip D, and provided with openings *f f*, through which, as well as through the strip D, the prongs *c* are passed,

after which the prongs are clinched, thus holding both plates and the interposed strip firmly together.

The strip D should be of sufficient size to fold its ends over the ends of the plate E, thus doubling and strengthening the strip at such parts; and it should also be broad enough at each side of the plate to admit of its being firmly pasted or fastened to the inside of the leaves F of the cover G.

The prongs may pass around the ends of strip D, instead of through it, or both through and around it.

The back of the book H we provide with a rigid material, preferably a metallic piece or pieces, B, which may be secured to the book in a simple manner by means of prongs or points struck up from the metal, and which, entering punctures made through the book at its back, or passing around the edges of the book, are then clinched, thus holding this piece or pieces firmly to its place.

Instead of such prongs, the piece B may be stitched or fastened to the book by wire.

The book itself is composed of but one set of sheets, all folded centrally by the same fold, and all secured together by stitching or fastening through such center, and hence, when folded, its back is naturally rounded at the exterior of such fold, and when its metal or rigid back-piece is applied thereto its edges stand off free from the paper.

The book is now ready to be connected to its cover by simply sliding the rigid or metallic back into the piece A, the two dovetailing or locking together.

In some cases the backing-plate E may be dispensed with, the plates A in such case being clinched directly to the linen or flexible strip.

The pieces A and E are, preferably, curved in cross-section.

Instead of the prongs *c* and openings *f f* these parts A and E may be adapted for being riveted together, as shown in Figs. 3 and 4, the linen cloth being first placed between them.

We claim—

1. In combination with the paper book, made as described, a metallic or other rigid piece or pieces, B, applied thereto, as set forth,

so as to clamp or hold all the sheets, and adapted to be inserted in and held by the back of a removable cover.

2. The combination of a book, all the leaves of which are stitched or fastened through a central fold common to all the sheets, with a removable cover, constructed with a metallic

back composed of two plates or folds of metal, and an interposed linen or flexible material.

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