

No. 719,673.

PATENTED FEB. 3, 1903.

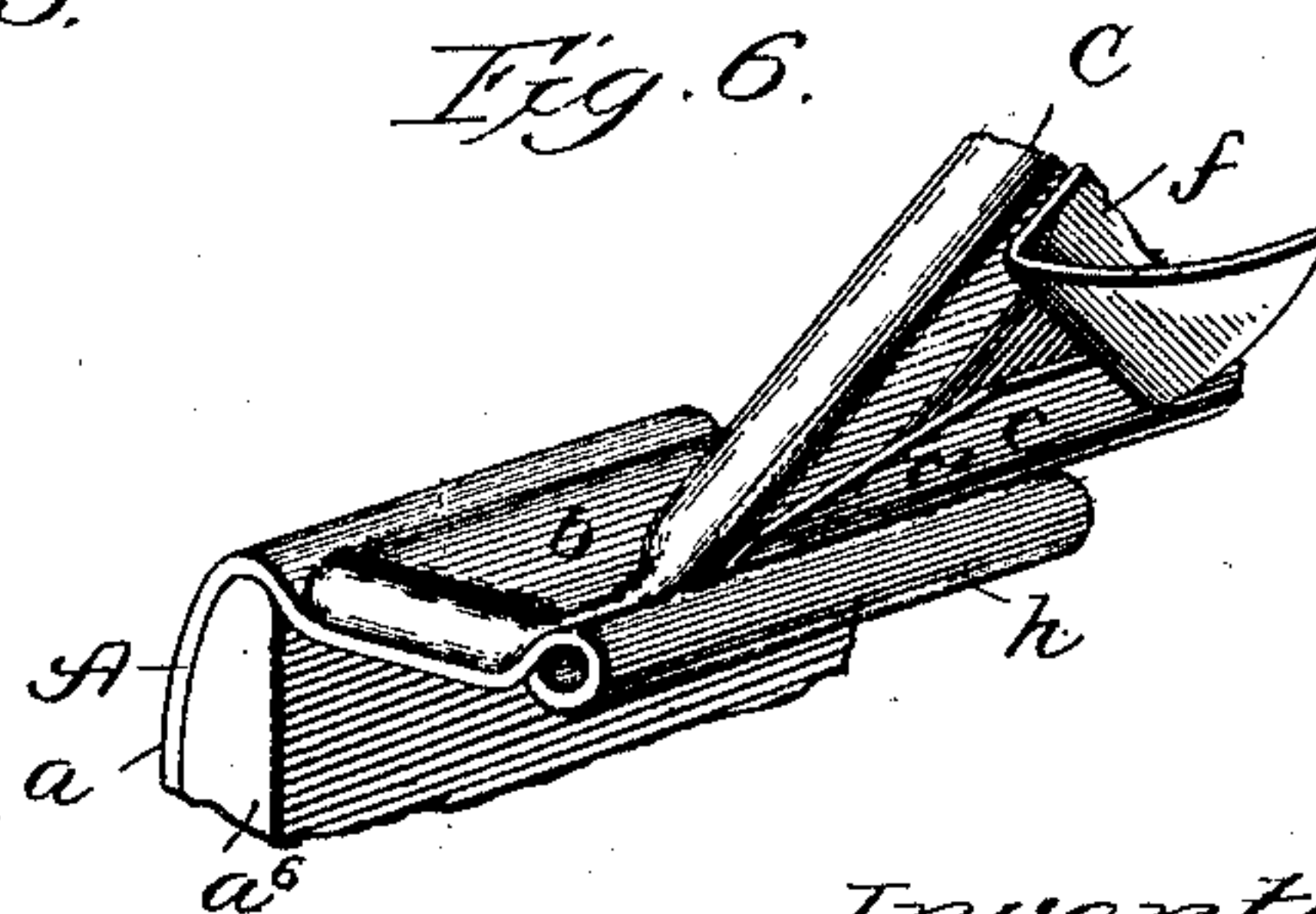
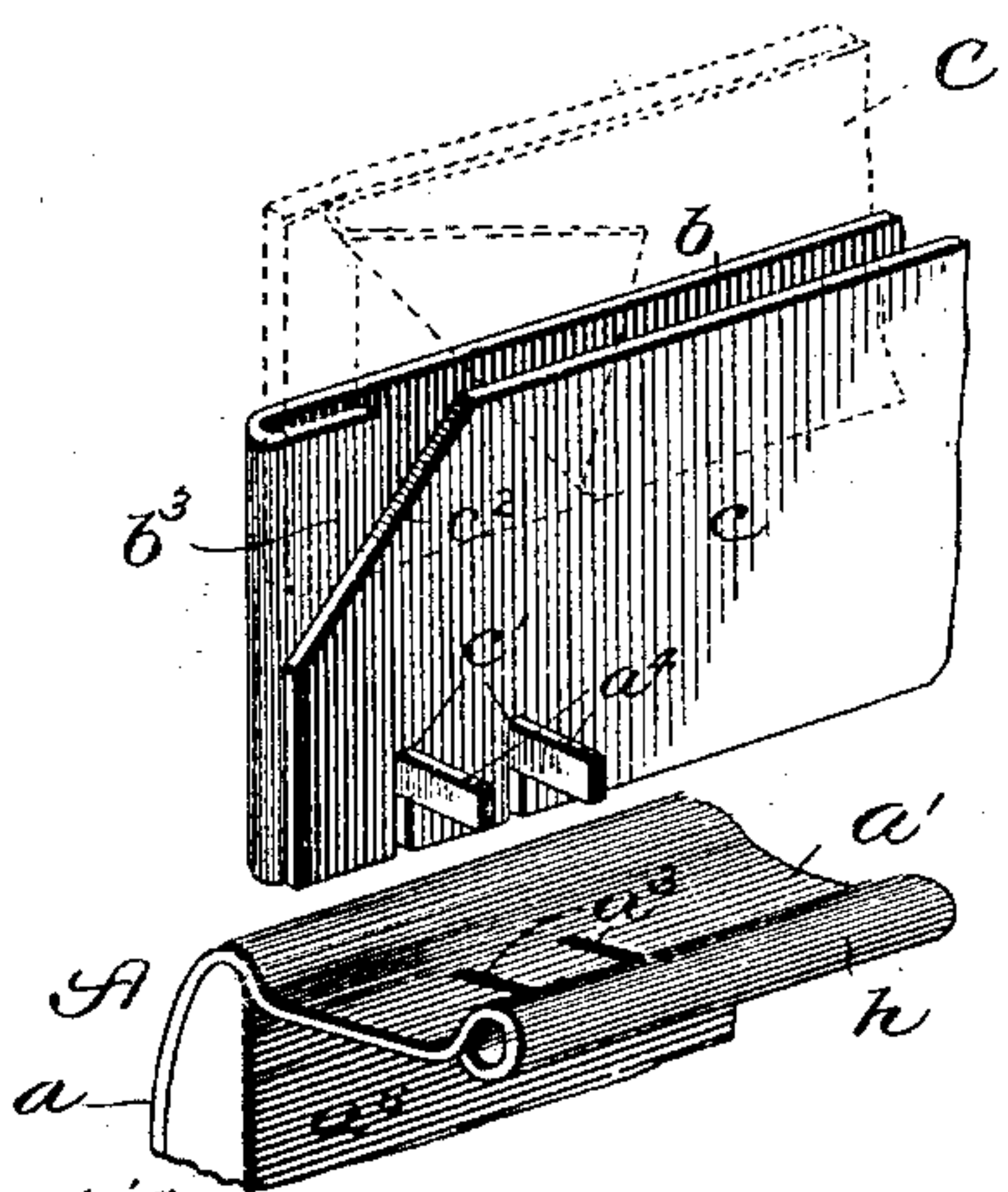
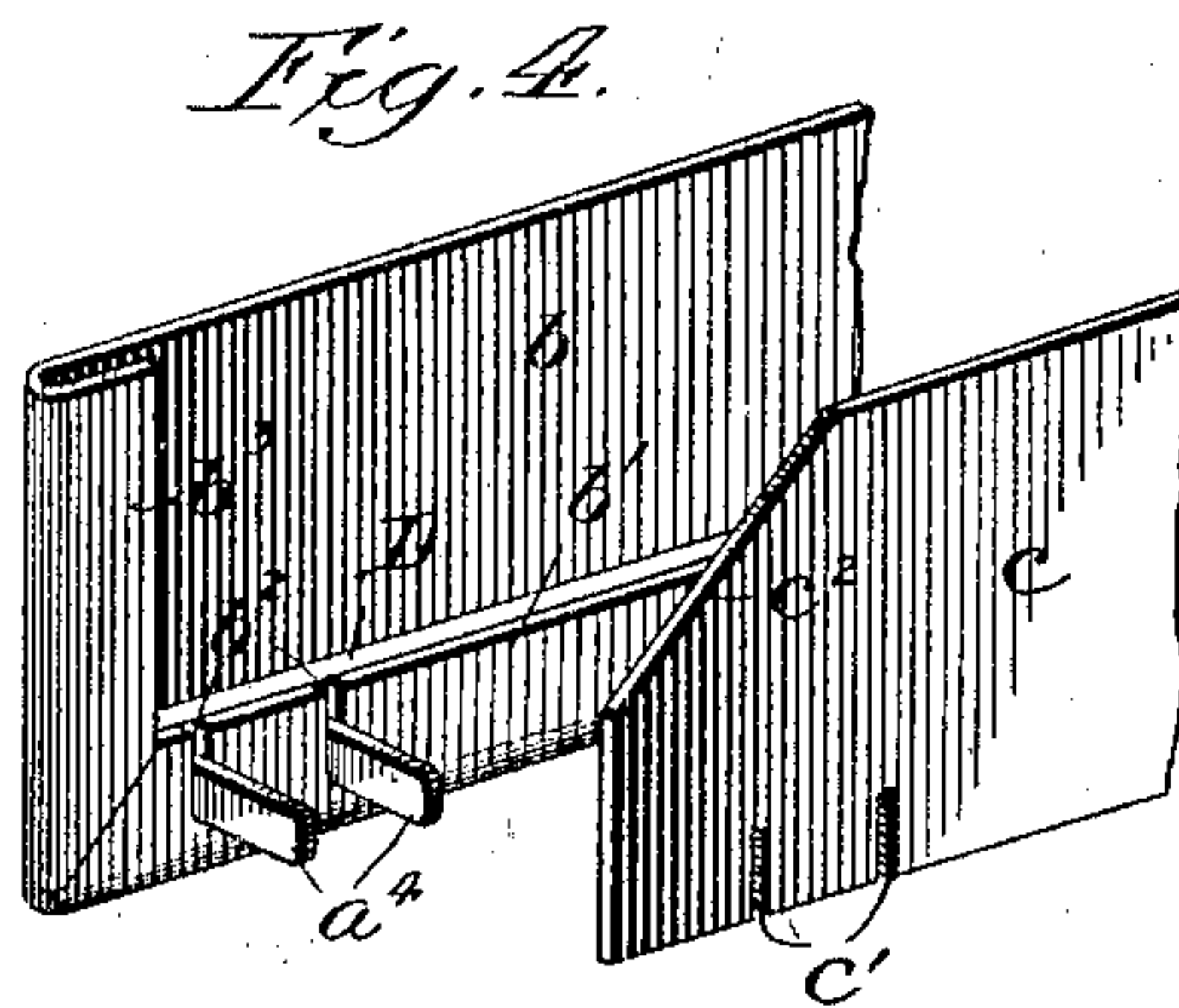
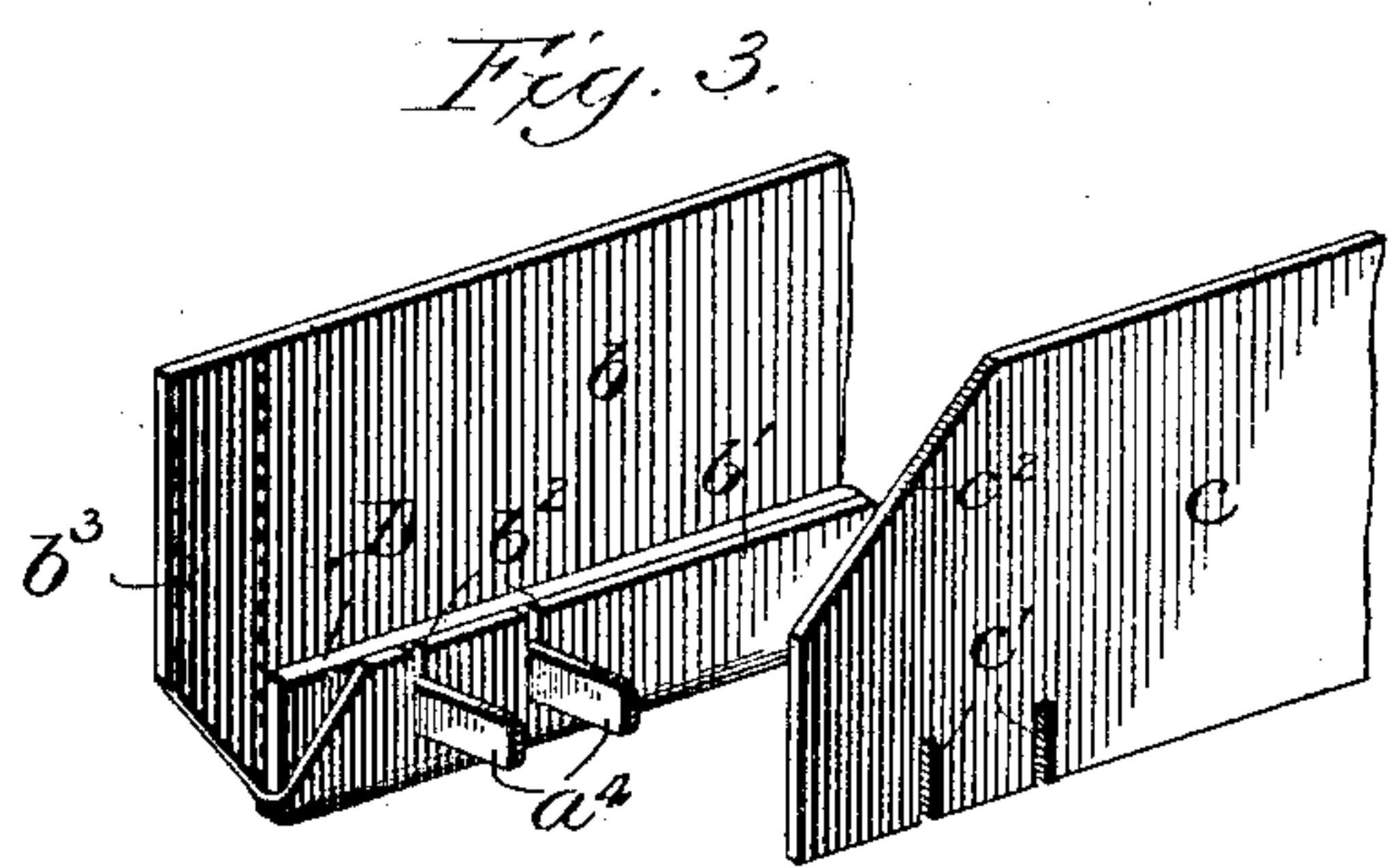
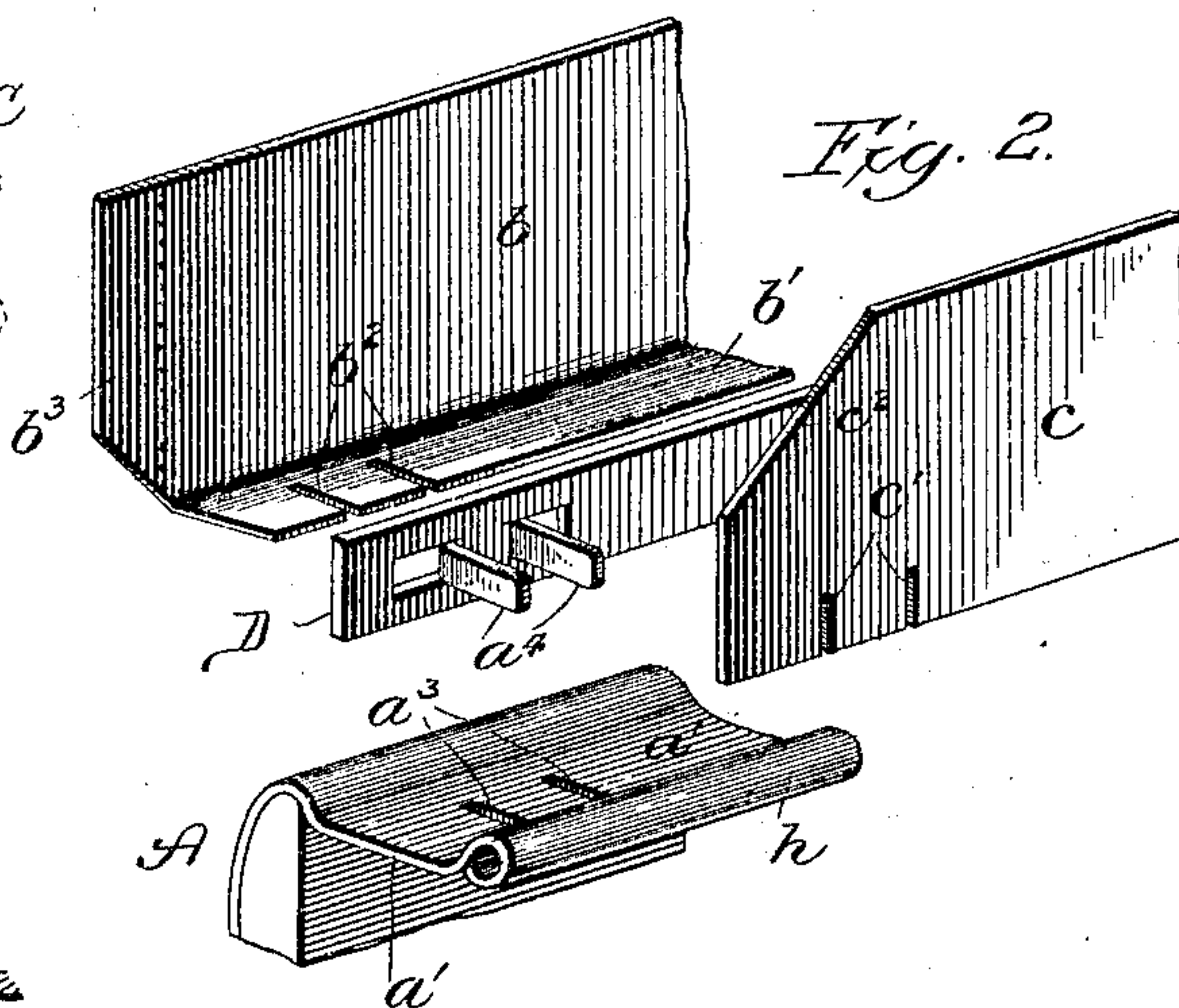
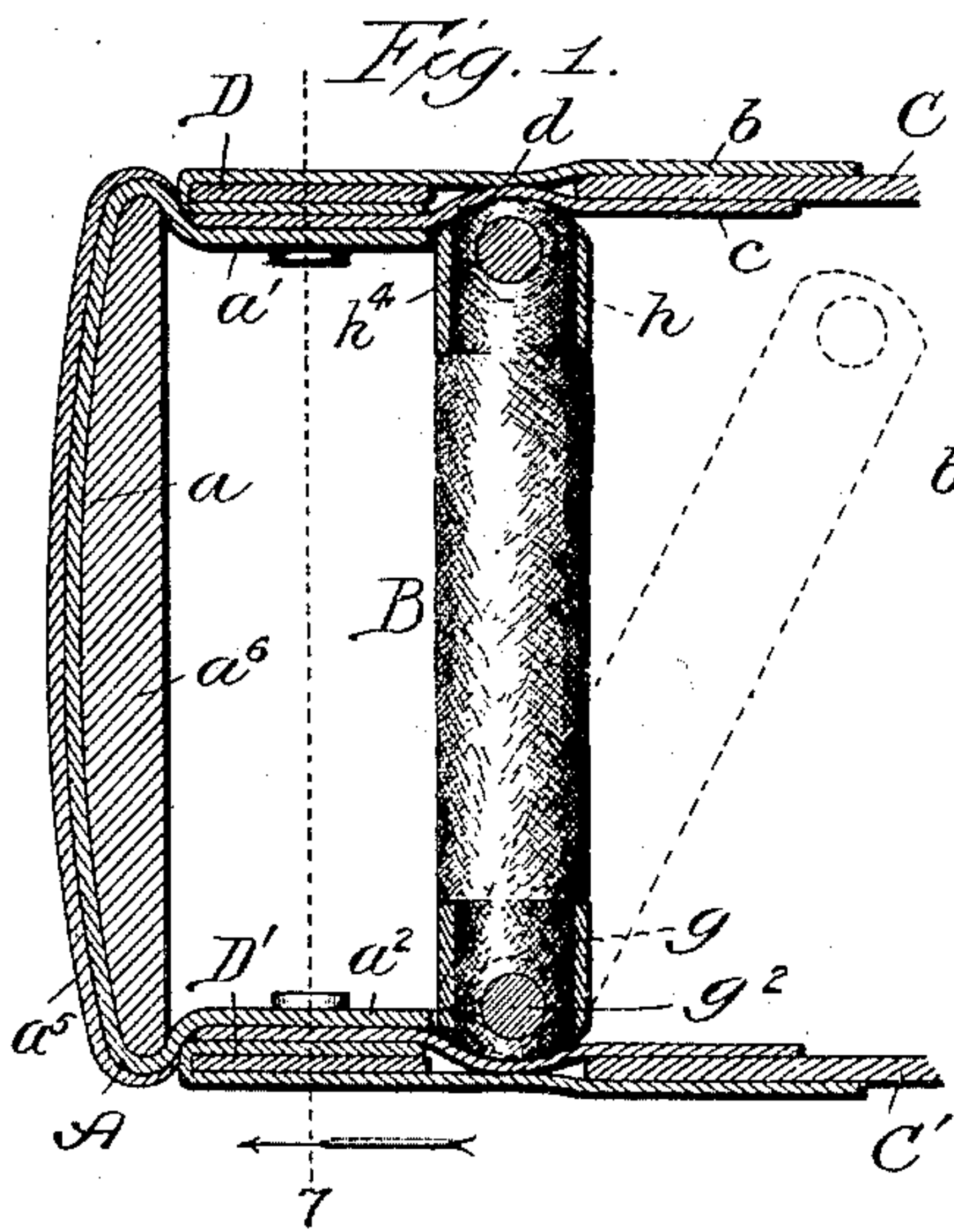
H. P. JONES.

BINDER.

APPLICATION FILED MAR. 10, 1902.

NO MODEL.

2 SHEETS—SHEET 1.



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No. 719,673.

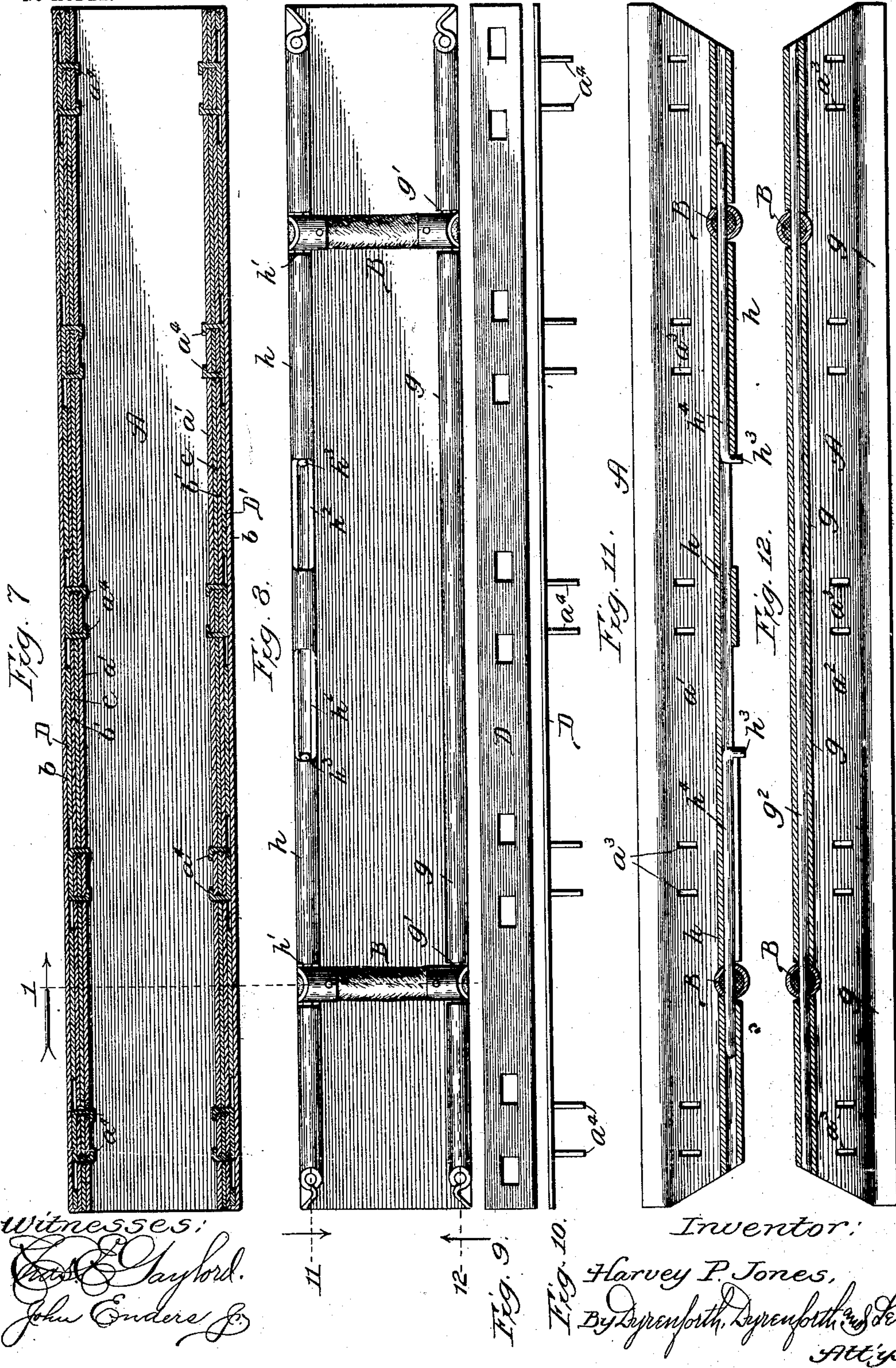
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2 SHEETS—SHEET 2.



UNITED STATES PATENT OFFICE.

HARVEY P. JONES, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO
GEORGE F. KELLY, OF CHICAGO, ILLINOIS.

BINDER.

SPECIFICATION forming part of Letters Patent No. 719,673, dated February 3, 1903.

Application filed March 10, 1902. Serial No. 97,537. (No model.)

To all whom it may concern:

Be it known that I, HARVEY P. JONES, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Binders, of which the following is a specification.

My invention relates particularly to binders for loose-leaf catalogues, though the improved binder may be put to the various uses of a loose-leaf binder.

My primary object is to provide a binder of improved general construction which can be manufactured at a very low cost, a matter of prime necessity in a binder for the particular use above mentioned.

My invention is illustrated in its preferred form in the accompanying drawings, in which—

Figure 1 represents a broken sectional view of a binder embodying my improvements; Figs. 2, 3, 4, 5, and 6, detailed perspective views illustrating the manner of connecting the cover-sections with the binder-back; Fig. 7, a vertical section taken as indicated at line 7 of Fig. 1; Fig. 8, an inner view of the binder-back; Figs. 9 and 10, face and edge views, respectively, of a clamping-plate employed for securing the cover-sections to the back; Fig. 11, a section taken as indicated at line 11 of Fig. 8, and Fig. 12 a section taken as indicated at line 12 of Fig. 8.

The preferred construction is as follows: A represents a binder-back; B, binding-posts connected therewith; C C', upper and lower cover-sections, respectively, and D D' upper and lower clamping or binding pieces employed for securing the cover-sections to the back A.

The back is stamped, preferably, from sheet metal and comprises a vertical member a and upper and lower flanges a' a^2 , respectively. The flanges are provided with perforations a^3 , which serve to receive clenching-lugs a^4 , with which sheet-metal strips D D' are provided, said lugs a^4 being preferably stamped from sheet-metal strips, as illustrated in Fig. 2. The back preferably has a covering a^5 , of leather, and a reinforcing-piece a^6 , located on the inner side. The flanges a' a^2 are depressed or pressed inwardly to receive the strips D D'.

Each cover-section is secured in place by leather strips b c . The outer strip b passes about the rear edge of the binding-strip and has a forwardly-turned portion b , provided with slots b^2 for receiving the lugs a^4 . The strip b also has end flaps b^3 , and the meeting corners of the flaps b' b^3 are beveled to meet, as shown in Fig. 4. The strip c has at its rear edge slots c' for receiving the lugs a^4 . To secure the parts together, the metal binding-plate D, for instance, is enveloped by the flaps b' b^3 , as illustrated in Figs. 3 and 4, after which the strip c is placed in the position indicated in Fig. 5, whereupon the lugs a^4 are inserted through the perforation a^3 and clenched along the inner surface of the flange a' . The cover-section is secured by passing its rear portion between the front portions of the strips b c and cementing the parts together. In this operation the cover-section is so placed as to allow the strips b c to serve as hinges, as indicated at d . The strip c has its corners sheared, as indicated at c^2 , and an ornamental sheet of paper f is applied to the inner surface of the cover-section to cover the inturned edges of the leather.

The flange a^2 is provided at its front margin with a hollow bead g , which is cut away at points g' to receive the lower ends of the posts B. The hollow bead g receives a pin or rod g^2 , which secures the lower ends of the binding-posts in place and affords pivots for said posts to swing upon. The flange a' is provided with a hollow bead, which is cut away at points h' to receive the upper ends of the binding-posts and at points h^2 to receive the forwardly-turned ends h^3 of the slidable locking-pins h^4 , which serve to secure the upper ends of the posts, the latter being perforated at their upper ends to receive the pins h^4 .

The construction and manner of use will be readily understood from the foregoing detailed description. Leaves having perforated or notched binding edges are applied to the binding-posts in the usual way, the posts being capable of being swung to the position indicated by dotted lines in Fig. 1, after first withdrawing the pins h^4 , as can be done by means of the thumb and finger, as clearly appears in Fig. 11.

As indicated, the posts are of leather or other comparatively flexible material, the ends being bound with suitable metallic ferrules. Where the posts are of short length, 5 they are equally good whether of metal or of flexible material; but where the book is of considerable thickness the feature of flexibility is one of considerable importance, inasmuch as the flexibility permits the book to 10 open in a more satisfactory manner. The construction is exceedingly simple and durable, and the improved binder can be manufactured at such a low cost as to permit its use in connection with catalogues and for 15 othersuch purposes where a very cheap binder is required.

The ends of the beads *g h* on the flanges of the binder-back are preferably sheared off or beveled, so that they do not project flush 20 with the ends of the book. In use the leaves press outwardly past the ends, thereby concealing the beads from view. In the construction care has been taken to prevent projecting parts, which might cause the leather to 25 wear unduly, and it will be observed that the beads *g h* lie directly inside the hinge portions *d* of the cover-sections.

Changes in minor details of construction within the spirit of my invention may be 30 made. Hence no undue limitation is to be understood from the foregoing detailed description.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a binder, the combination of a back 35 provided with forwardly-projecting flanges, binding-posts connected with said flanges, cover-sections, flexible binding-strips attached to said cover-sections, and clamping-strips serving to secure said flexible binding-strips 40 to said flanges.

2. In a binder, the combination of a back provided with forwardly-projecting flanges, binding-posts connected with said flanges, a cover-section, a flexible binding-strip at- 45 tached to said cover-section and projecting over one of said flanges, and a clamping-strip, the clamping-strip and coacting flange being provided with perforations and clenching- 50 lugs, for the purpose set forth.

3. In a binder, the combination of a back provided with forwardly-projecting flanges, binding-posts connected with said flanges, cover-sections, inner and outer flexible binding-strips attached to said cover-sections, the 55 outer strip being provided with intumed flaps, and a clamping-strip serving to clamp said flaps and the rear margin of said inner binding-strip to the adjacent flange, substantially as and for the purpose set forth.

HARVEY P. JONES.

In presence of—

W. GIFFORD JONES,
GEO. F. KELLY.