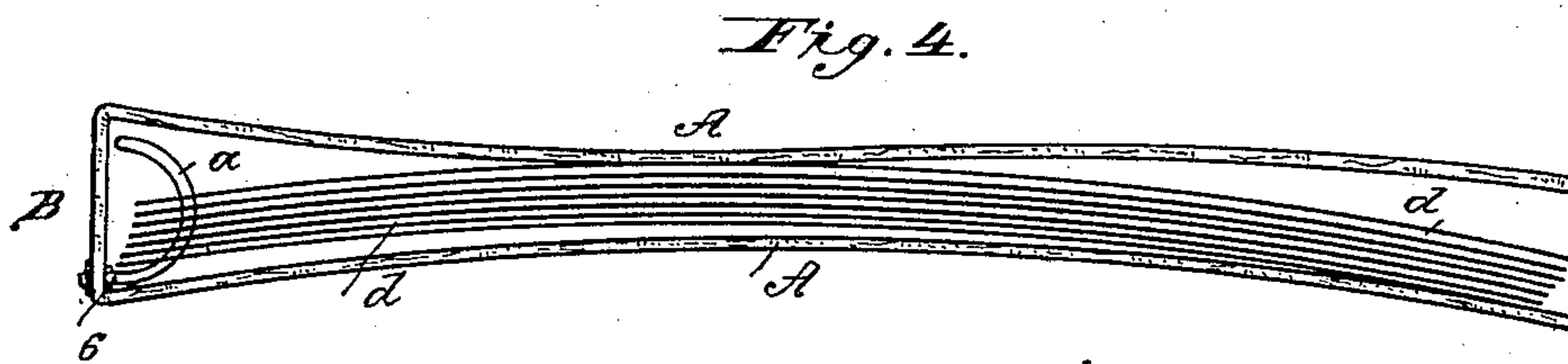
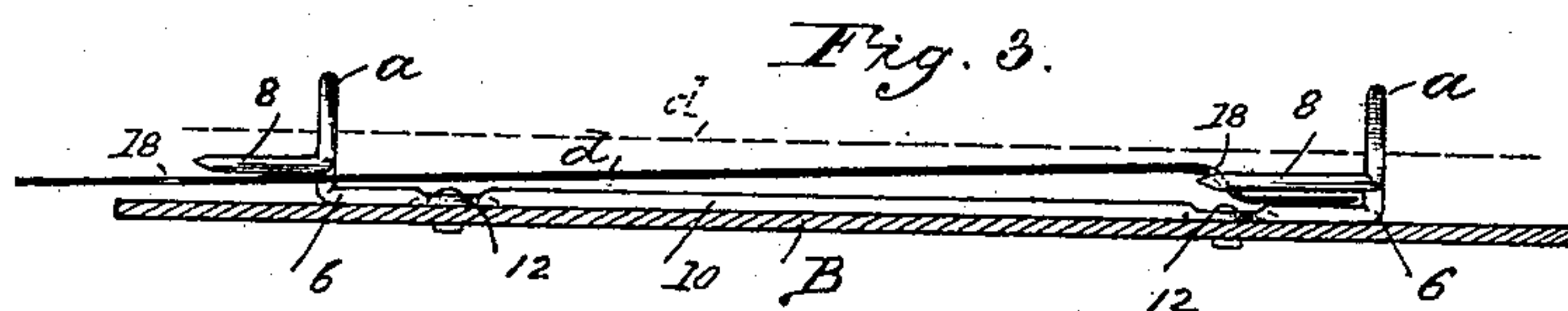
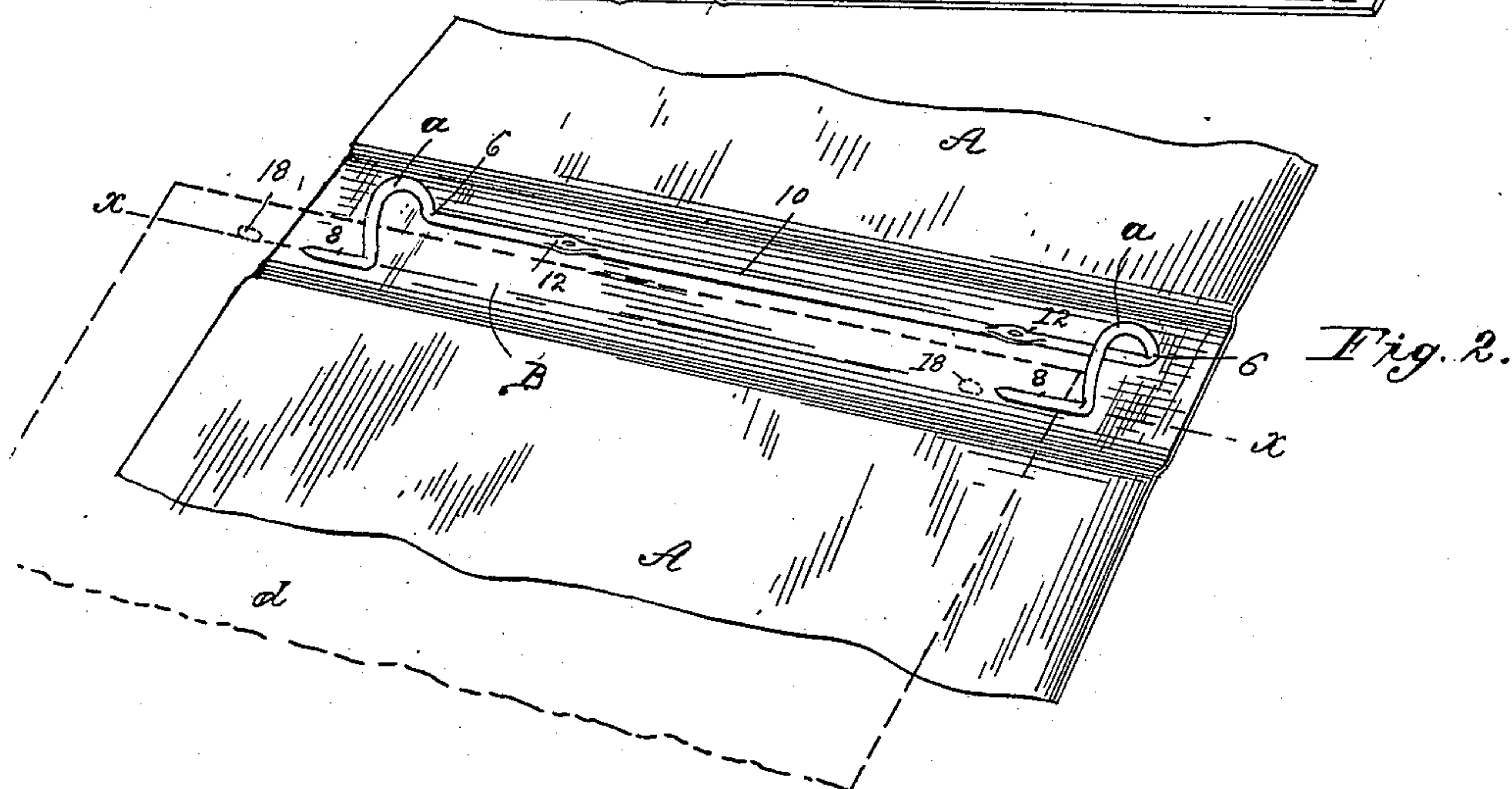
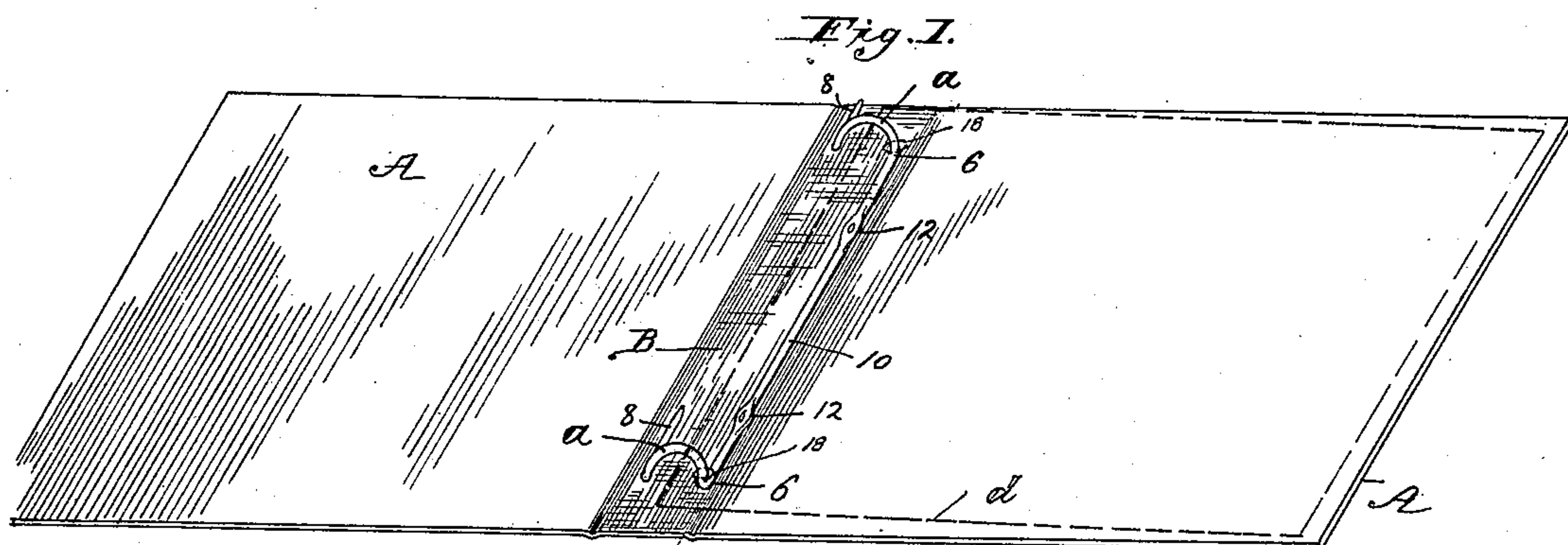


(No Model.)

A. G. FISHER.
TEMPORARY BINDER.

No. 397,845.

Patented Feb. 12, 1889.



Witnesses

Wm. S. Bellamy
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UNITED STATES PATENT OFFICE.

ALFRED G. FISHER, OF SPRINGFIELD, MASSACHUSETTS, ASSIGNOR TO
MARY D. GOETTING, OF SAME PLACE.

TEMPORARY BINDER.

SPECIFICATION forming part of Letters Patent No. 397,845, dated February 12, 1889.

Application filed June 6, 1888. Serial No. 276,197. (No model.)

To all whom it may concern:

Be it known that I, ALFRED G. FISHER, a citizen of the United States, residing at Springfield, in the county of Hampden and State of Massachusetts, have invented new and useful improvements in Temporary Binders, of which the following is a specification.

This invention relates to temporary binders particularly adapted for the retention of sheets of music, although perfectly adapted for use for confining other kinds of papers and pamphlets; and the invention consists in the combination, with the back or folding portion between the two covers, of two or more transversely-arranged arch-shaped hooks, which, by their inner ends, are secured to said back, and by their outer ends terminate in extensions parallel with the inner surface of said back at a short distance therefrom and each extending toward the same end of said back, substantially as will hereinafter more fully appear; and the invention further consists in the embodiment of other features of novelty in the formation of said hooks, all as will be particularly shown, described, and pointed out in the claims.

Reference is to be had to the accompanying sheet of drawings, in which the present invention is illustrated, and in which—

Figure 1 is a perspective view of the inclosing-covers shown as opened with the retaining-hooks applied in place on the inside of the back or folding portion thereof, and showing in dotted lines the position of a single sheet as interlocked with said hooks. Fig. 2 is a perspective view, enlarged, of said folding back, the confining-hooks thereon, and the adjacent portions of the covers, there being indicated in dotted lines the relative position of a sheet just before being engaged with said hooks. Fig. 3 is a cross-section of the same, as indicated by line *x x*, Fig. 2, but showing the section of a sheet in a slightly different position with relation to the hooks from that indicated in said figure. Fig. 4 is an edge view of the covers folded one over the other, there being intermediate thereof a series of sheets or leaves interlocked with the hooks. Fig. 5 is a view illustrative of a modified form of hook.

In the drawings, A A represent the side covers, of board or other sufficiently stiff ma-

terial, intermediately joined by any suitable flexible connection with the back B, as ordinary in book-covers. On the inner side of the back and toward the ends thereof are arch-shaped metallic hooks *a a*, standing transversely of its length, which, by their one end portions, 6, are confined on or against said back, and their other end portions are angularly projected in the extensions 8 8 longitudinally of and toward one and the same end of said back and in a line slightly within and separated from the inner face thereof.

It is preferable to form the longitudinal extension 8 of one hook longer than the corresponding extension of the other hook, and it is also preferable to form both of said hooks integrally with an intermediate shank-wire, 10, as seen in the drawings, Figs. 1, 2, and 3, said intermediate shank-wire being at suitable portions of its length flattened, as at 12, through which perforations are formed to permit of the riveting of said wire to the back, and thereby secure the same and the rigid and integrally-formed hooks in their proper positions relative to said back and to each other. Other means for securing said shank-wire to the back than riveting might be employed, as stitching or looping; and, again, the hooks need not necessarily be joined by the intermediate wire, 10, for, as seen in Fig. 5, they may be each separately formed and have the end portion, 6, thereof shouldered, as at 15, just within its extremity and said end extended through the thickness of the back and riveted at the outer side thereof.

The music or other sheet or sheets *d* are to be near their inner edges provided with perforations, as indicated at 18 in Figs. 1, 2, and 3, which perforations are spaced at a distance from each other equal to the distance between the hooks *a a*; and to place one or more sheets perforated, as described, for confinement on said hooks, said sheet or sheets are slipped by their inner edge under the longitudinal extensions 8 of the hooks, with their perforations 18 near the points of the said extensions (and where one of said extensions is longer than the other when one perforation will be coincident with the point of the longer extension the other perforation will be at a slight distance beyond the point of the shorter extension).

sion) and moving the edge of the sheet so that the perforations thereof are then brought over and about said extensions 8, and sliding said sheet in the direction of the length of the back B the said perforations are brought to the junctions of said extensions 8 and the arched portions of the hooks, and the sheet may then be swung over on said arched hooks into the relation therewith and position indicated in Figs. 1 and 4, and of course following a reversal of the movements of the said steps will effect a detachment of the sheets from the binder-hooks.

The formation of one hook-extension 8 longer than the other is advantageous, for the reason that in securing an engagement thereof with the perforations of the sheets, as particularly noticeable in Fig. 3, it is only necessary to exercise care to secure a coincidence of one perforation with the longer extension, and when a partial engagement therebetween has been secured the other perforation may be easily brought to and about the other and shorter extension; but the invention is not to be limited to the formation of said extensions 8 of varying lengths, as when formed of equal lengths the devices are equally effective, but not as convenient in use. In the use of the present binder the sheets may lie as perfectly flat at their inner edges as at any other portion thereof, and the susceptibility of the binder for such desirable disposition of the said sheets confers upon it an important advantage. More than two hooks substantially such as described might be employed in some instances where sheets or folios of considerable height are to be held between the covers, and in such an event perforations are to be made near the edges of such sheets in number and of interval corresponding with the number and interval of the said hooks.

What I claim as my invention is—

1. The combination, with the back B, of two or more transversely-arranged arch-shaped hooks, *a*, which by their one end portions are

rigidly confined upon said back, and at their other end portions are provided with the angular projections 8, extending at a slight distance from and parallel with the inner surface of said back in the direction of the length and with their points toward one and the same end thereof, substantially as and for the purpose described.

2. The combination, with the back B, of two transversely-arranged arch-shaped hooks, *a a*, which by their one end portions are rigidly confined upon said back, and at their other end portions are provided with the angular projections 8, one of which is longer than the other, extending at a slight distance from and parallel with the inner surface of said back in the direction of the length and with their points toward one and the same end thereof, substantially as and for the purpose described.

3. The hook device for temporary binders herein described, the same being integrally formed and consisting of the intermediate shank-wire, 10, the arch-hooks *a a* at the end portions of said shank-wire, each extended in planes at right angles thereto, and each at its end provided with a projection, 8, extending parallel with said shank and from or toward one and the same end thereof, substantially as described.

4. The hook device herein described, the same being integrally formed and consisting of the intermediate shank-wire, 10, having the flattened and perforated portions 12, the arch-hooks *a a* at the end portions of said shank-wire, each extended in planes at right angles thereto, and each at its end provided with a projection, 8, each extending parallel with said shank and from or toward one and the same end thereof, combined with and riveted to the back B, all substantially as shown and described, for the purpose specified.

ALFRED G. FISHER.

Witnesses:

H. A. CHAPIN,

G. M. CHAMBERLAIN.