

899,066.

Patented Sept. 22, 1908.

2 SHEETS—SHEET 1.

FIG. 1.

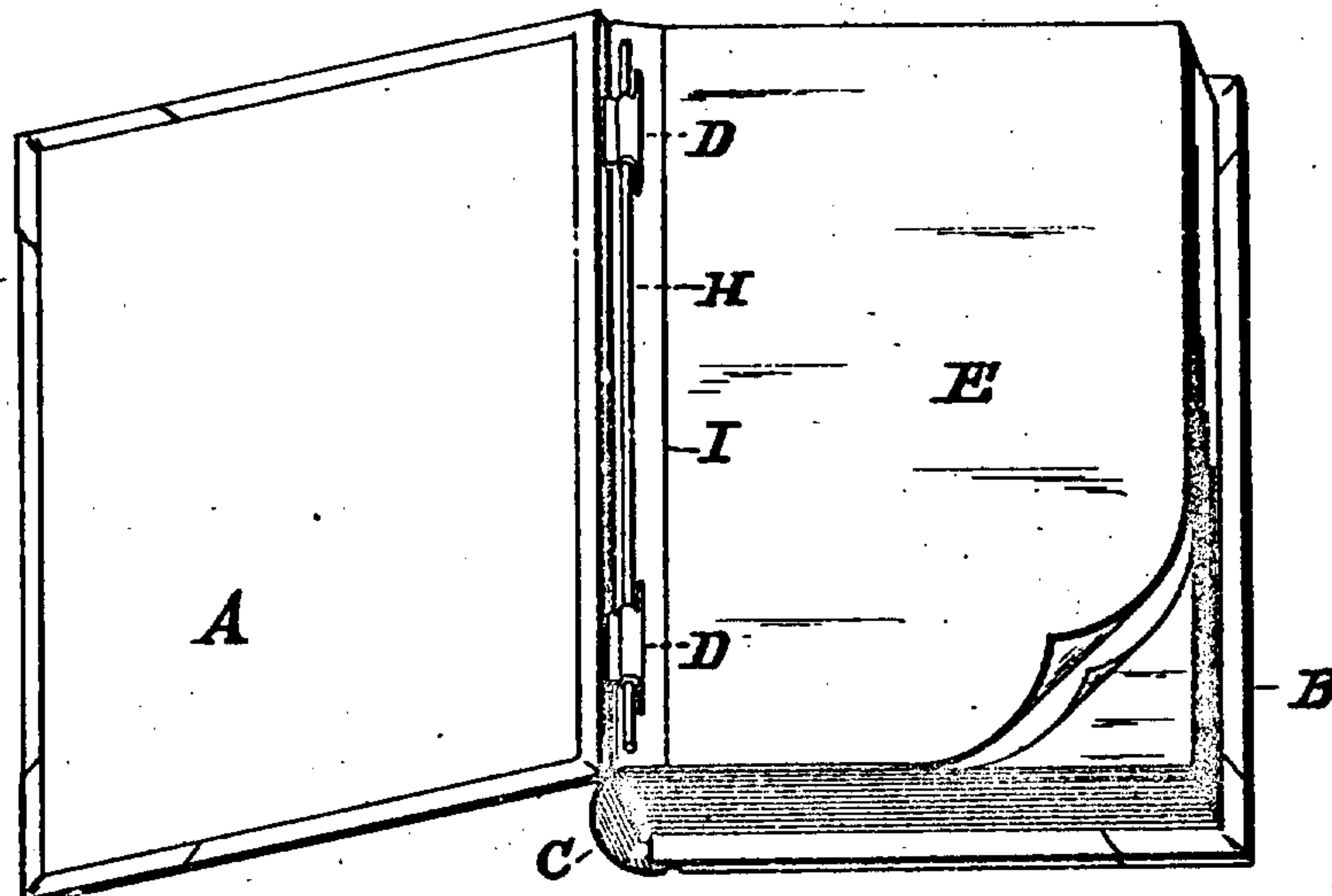
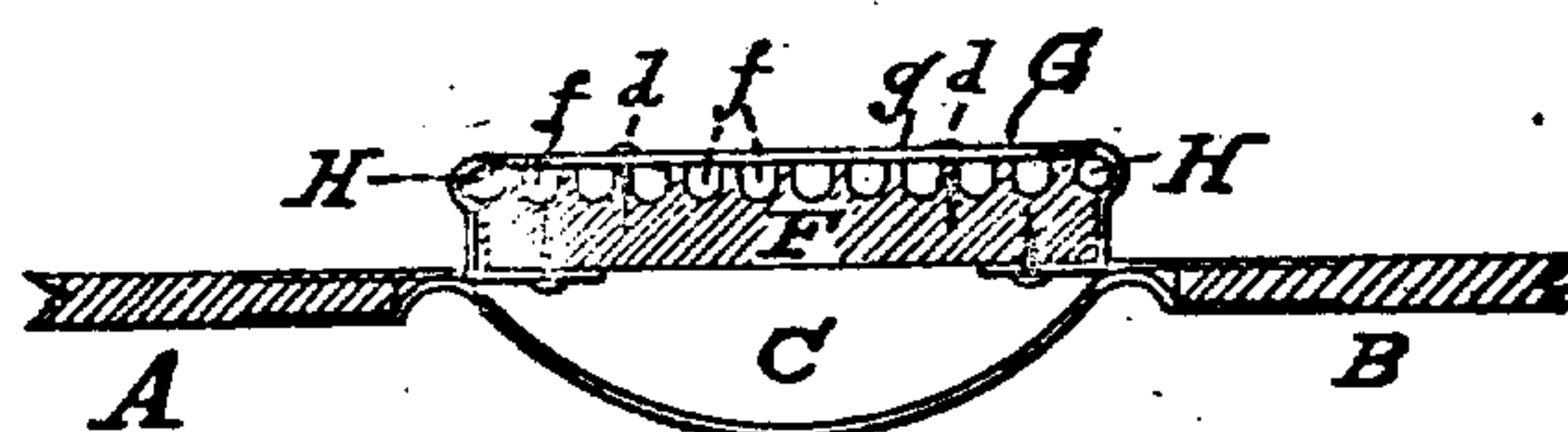
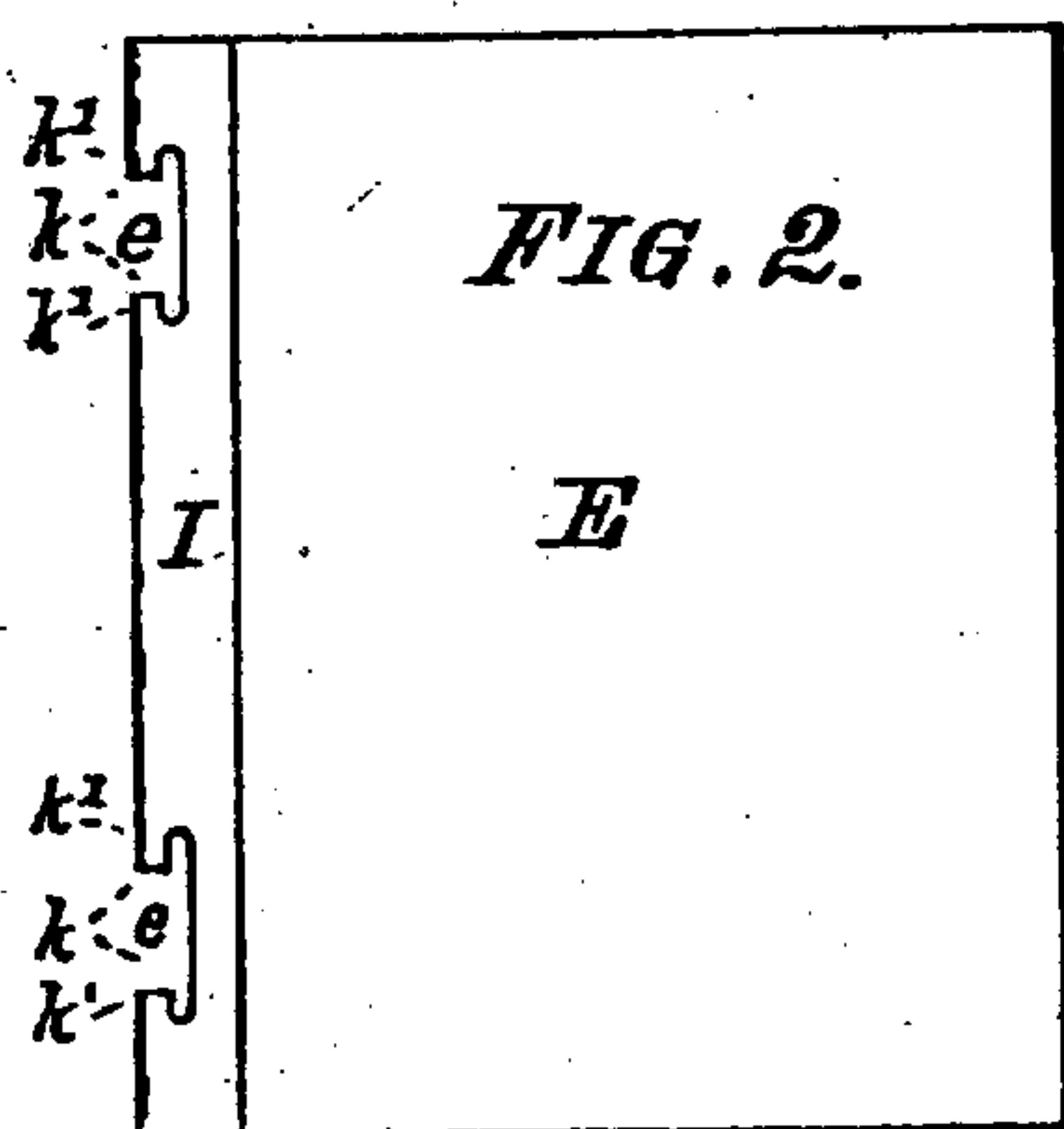
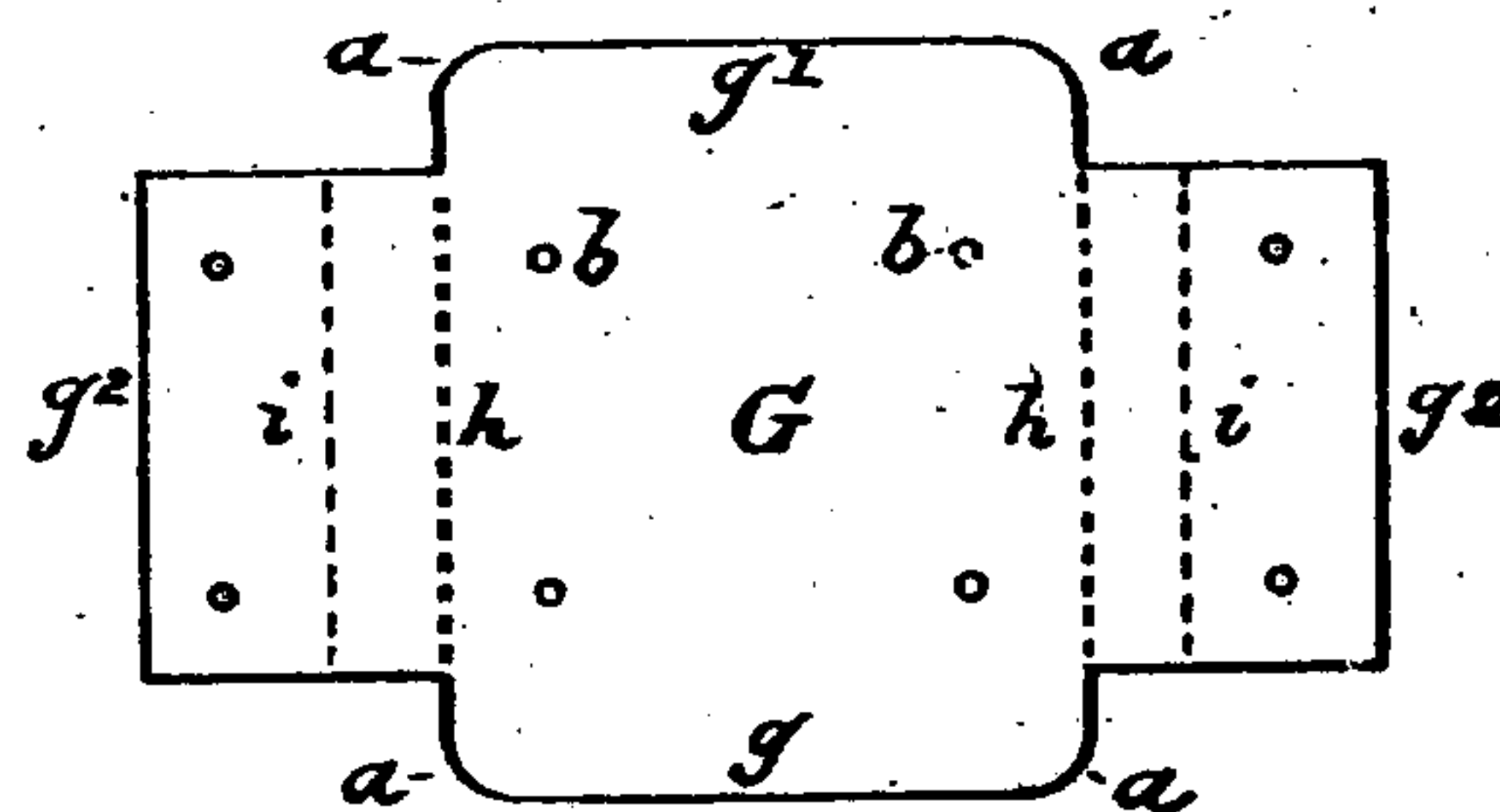


FIG. 4.



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FIG. 6.

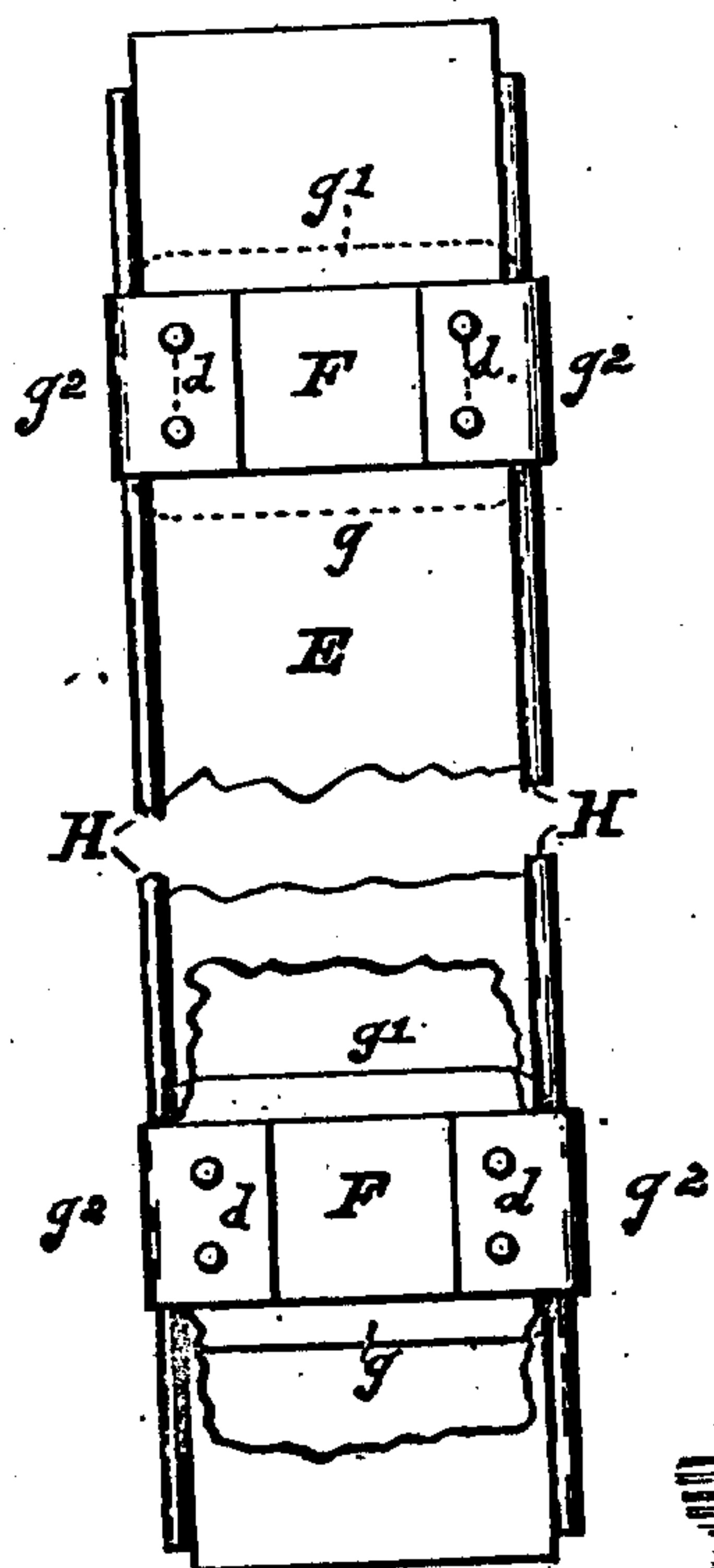


FIG. 7.

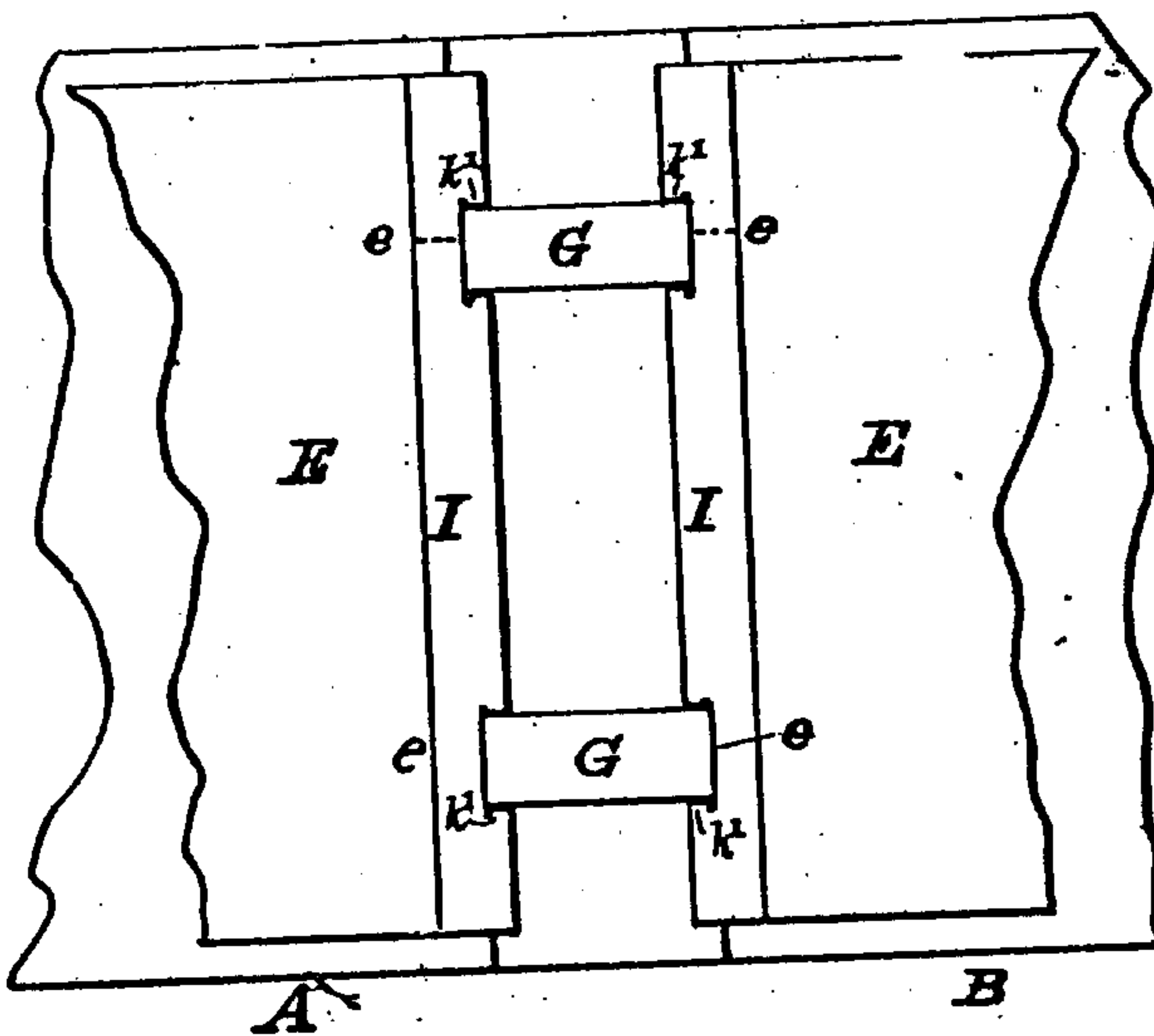


FIG. 8.

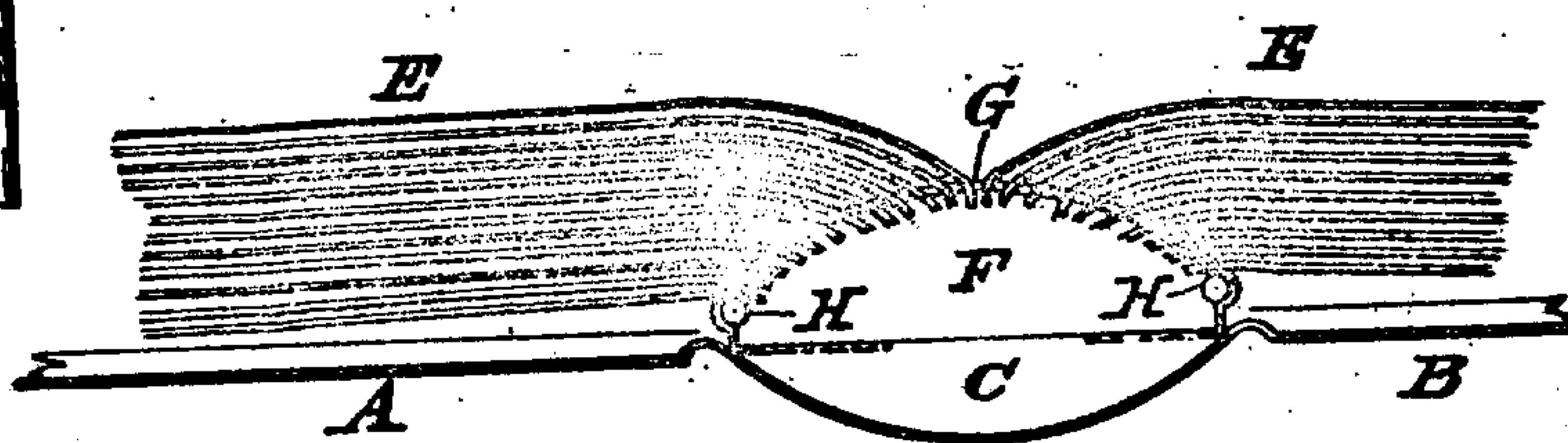
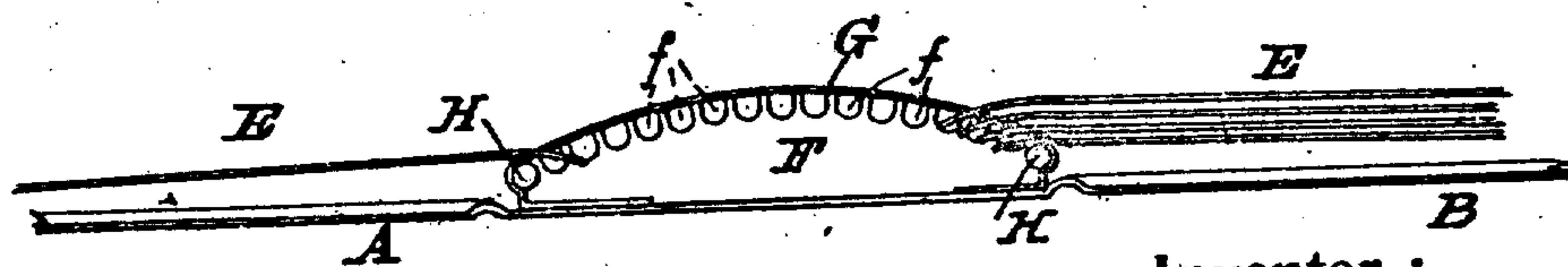


FIG. 9.



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UNITED STATES PATENT OFFICE.

WILLIAM PEIN, OF CHICAGO, ILLINOIS.

BINDER FOR BOOKS, JOURNALS, PAPER, MUSIC, &c.

No. 899,066.

Specification of Letters Patent.

Patented Sept. 22, 1908.

Application filed June 29, 1908. Serial No. 440,928.

To all whom it may concern:

Be it known that I, WILLIAM PEIN, a citizen of the United States, and a resident of Chicago, in the county of Cook, in the State of Illinois, have invented certain new and useful Improvements in Binders for Books, Journals, Paper, Music, &c.; and I do hereby declare that the following description of my
10 accompanying sheets of drawings, forms a full, clear, and exact specification, which will enable others skilled in the art to which it appertains to make and use the same.

This invention has general reference to improvements in binders for books, periodicals, sheet-music, papers, documents, catalogues, &c., and it consists, essentially, in the novel and peculiar combination of parts and details of construction as hereinafter first fully
20 set forth and described and then pointed out in the claim.

In the drawings already referred to, which serve to illustrate this invention more fully, Figure 1 is a perspective view of a book bound with my improved binder. Fig. 2 is a plan of one of the prepared leaves, signatures or sections of which the book is composed. Fig. 3 is an end-elevation of the same, partly in section. Fig. 4 is a plan of the sheet-metal blank which, when formed
30 as shown in Fig. 5, constitutes the guide and retainer for the leaves, &c. Fig. 5 is an end-elevation, partly in section, of the device, the leaves, &c., being removed. Fig. 6 is a rear-elevation of the book with its cover removed, partly broken away to disclose some of the details of construction. Fig. 7 is a plan of fragment of a book, music-roll, &c., and Figs. 8 and 9 are end-elevations of the
40 same.

Like parts are designated by corresponding symbols of reference in all the figures.

The object of this invention is the production of an efficient, serviceable, and durable
45 binder for papers, books, periodicals, sheet-music, documents, catalogues, &c.; that can be manufactured and sold at a very reasonable figure. To attain this object I construct this binder of two covers A B, properly
50 united to the back C in the usual manner, which being well known, it is deemed unnecessary to here describe in detail.

D are a series of two or more retainers for the leaves, signatures and sections E of the
55 book and they consist each of a base-piece F and a sheet-metal guide-piece G, the latter

being shown in detail in Fig. 4 and also in all other figures excepting Fig. 3. These retainers are securely fastened to the back C by nails, screws, or other suitable means of
60 fastening, glue, &c.

The sheet-metal guide G is of a cross-shaped contour the members or portions $g g'$ of which have rounded corners a , for the purpose hereinafter to be referred to, there being a
65 number of holes b , for the passage of nails, screws, &c., d to securely fasten this sheet-metal-guide-piece G to the base-piece F as illustrated in Fig. 5.

The base-piece F is preferably made of wood and it is of rectangular contour of which one face is preferably curved as shown in Figs. 8 and 9, and this face is provided with a series of grooves f , to receive locking-
70 bars H, as will hereinafter more fully be referred to.

The blank for the sheet-metal guide-piece G is bent along the dotted lines h into a semi-circular form and then bent at right angles along the dotted lines i so that its final con-
80 tour is clearly shown in Figs. 4 and 9, the semi-circular portions forming one-half of a socket at the ends of the base-piece F, the other half being formed by grooves j , at the ends of said base-piece.

The base-piece F is of the same width as the members or portions g' of the guide G so that, when the latter is secured to the former, the portions $g g'$ project beyond the
90 base-piece as illustrated in Fig. 6.

In order to properly bind a book, pamphlet, catalogue, &c., the individual leaves, signatures or sections are each notched, as shown in Fig. 2 by a notch or excision e , which notch is substantially T-shaped so
95 that the portion k embraces the base F, and the portions k' the projecting ends $g g'$ of the retainer when these sections, &c. are placed into position for binding and they are prevented from being withdrawn by the por-
100 tions k' of the sections engaging behind the projecting portions $g g'$ of the retaining plate and guide-piece, G.

When a book is to be permanently bound I use a base-piece F having a flat face, as
105 shown in Fig. 5, and I may also use a flat-base-piece F when temporarily binding portions of a book, periodical, journal, &c., but whenever the paper of which the book is composed is of a cheaper grade which would not
110 allow of removal and reinsertion without injury to the lips on the excisions e of the

sheets, signatures and sections, I reinforce these sheets, signatures and sections by pasting or gluing along the edge thereof where the excisions are to be made, canvas, cloth, leather or other strips I, as shown in Figs. 1, 2, and 7, whereby these sheets, &c., are strengthened so as to allow of their withdrawal and reinsertion as often as is found necessary or desirable.
 In temporarily binding sheet-music I find that instead of using a base-piece F having a flat upper surface, a base-piece having a curved or convex face is more desirable and effective, and in Figs. 7, 8, and 9 I have shown such a construction. In this case I also use flexible covers so as not to injure the music-rack or pianos, organs and other instruments, which racks are usually highly polished and are liable to scratches, &c. when a stiff-covered book is used thereon. This construction enables the sheets to lie nearly perfectly flat especially so if the several leaves of a piece of sheet-music are separated and each leaf reinforced by the reinforcing forces I and then attached to the retainers D, and when but a limited number of sheets are temporarily bound into this binder. This latter feature of my invention is an especially desirable one since a musician can turn his music-sheets quickly and be assured that when turned it will immediately lie flat.

When a number of sheets, signatures, or sections are placed into position in this binder, the rods H are pushed into the sockets or grooves f in the base-piece and thereby the sheets, &c., securely held in position, there being a series of these grooves so that the rods H may be placed close to these leaves, sections, &c., and hold them securely in position.

It is evident that for permanently binding books, the base-pieces F with their sheet-metal guide-pieces G are made to correspond with the thickness of the book, a matter which will be readily understood by persons skilled in the arts to which my invention appertains.

In order that the sheets, signatures and sections of a book may be readily placed upon the retainers, I have rounded off the corners of the projecting portions g g' of the

guide-pieces G thereby guiding these sections, &c., upon the projecting portions of said retainers or guide-pieces G.

Having thus fully described my invention I claim as new and desire to secure to me by Letters Patent of the United States—

1. A binder for books, pamphlets, &c., consisting, essentially, of two covers flexibly secured together; base-pieces secured to the back of the covers; sheet-metal guide-pieces secured to said base-pieces, there being projecting members of said guide-pieces extending beyond the edges of said base-pieces.

2. A binder for books, pamphlets, &c., consisting, essentially, of two flexibly connected covers; base-pieces secured to the back of the covers, there being a series of grooves in the face of said base-piece; sheet-metal guide-pieces, secured to the face of said base-piece, there being projecting portions of said guide-pieces overlapping the base-pieces; and a series of sheets, signatures and sections, there being T-shaped notches in said sheets, signatures and sections adapted to engage the base-pieces and the guide-pieces.

3. A binder for books, pamphlets, &c., consisting, essentially, of two flexibly-jointed covers; base-pieces secured to the back of the covers, said base-piece having a curved upper surface, there being a series of grooves in said curved surface; sheet-metal guide-pieces secured to said base-pieces, there being projecting portions of said guide-pieces overlapping the base-pieces; a series of sheets, signatures, and sections, there being T-shaped notches in the edges of said sheets, signatures and sections adapted to engage the base-pieces and the guide-pieces; and rods passed through said notches in the base-pieces close to the outermost sections, &c. of the book.

In testimony that I claim the foregoing as my invention I have hereunto set my hand in the presence of two subscribing witnesses.

WM. PEIN.

Attest:

MICHAEL J. STARK,
 MICHAEL J. STARK, JR.