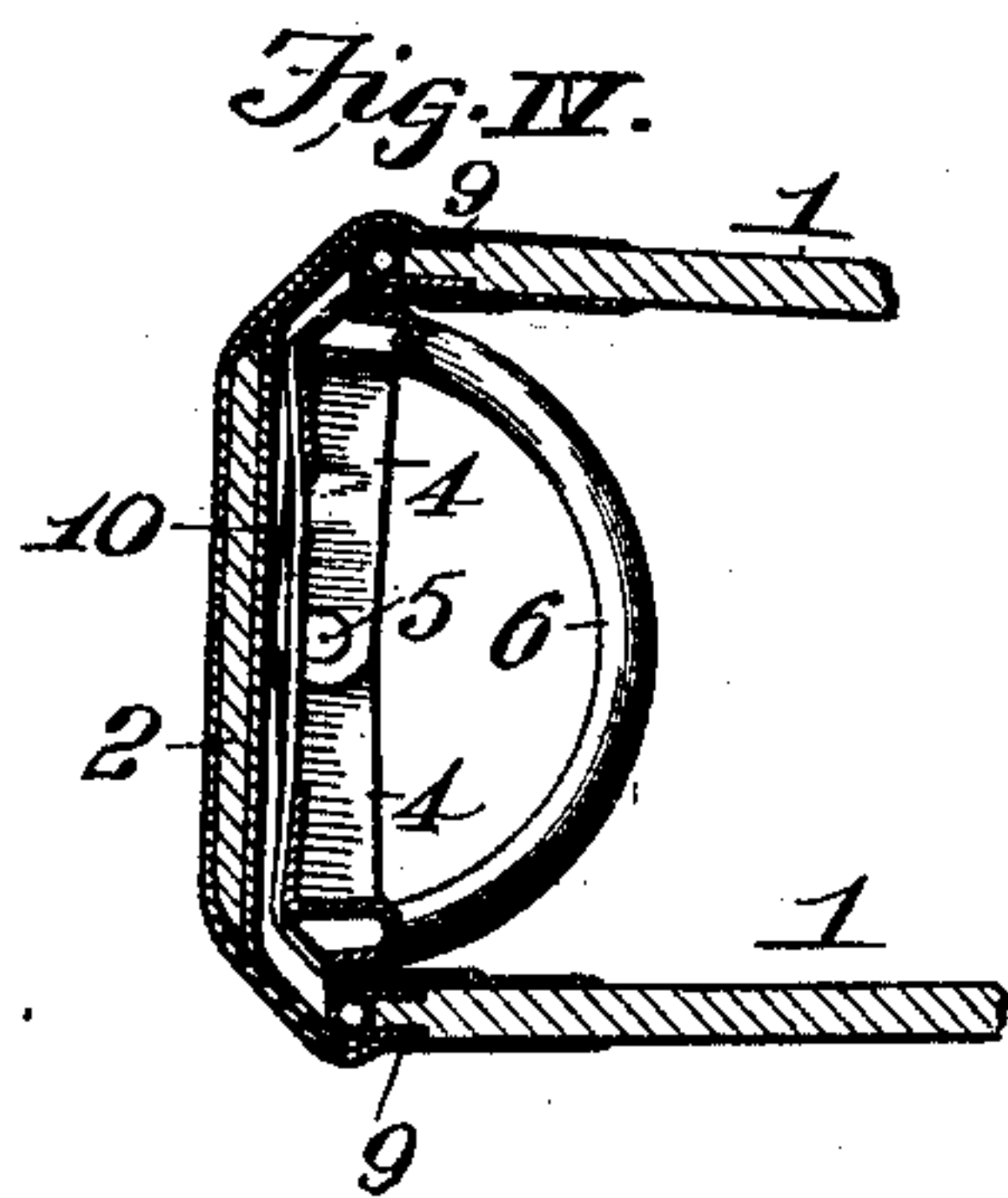
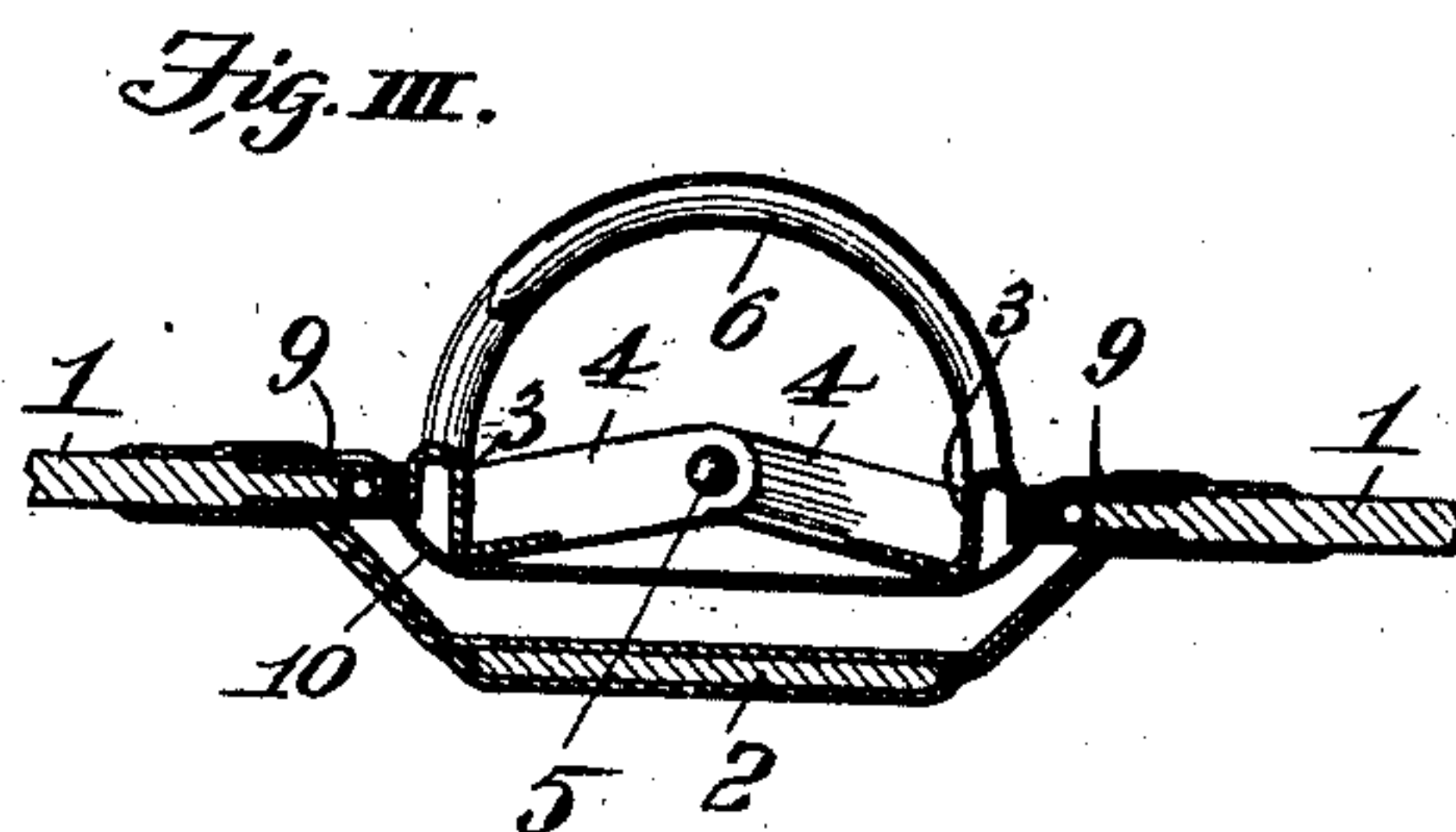
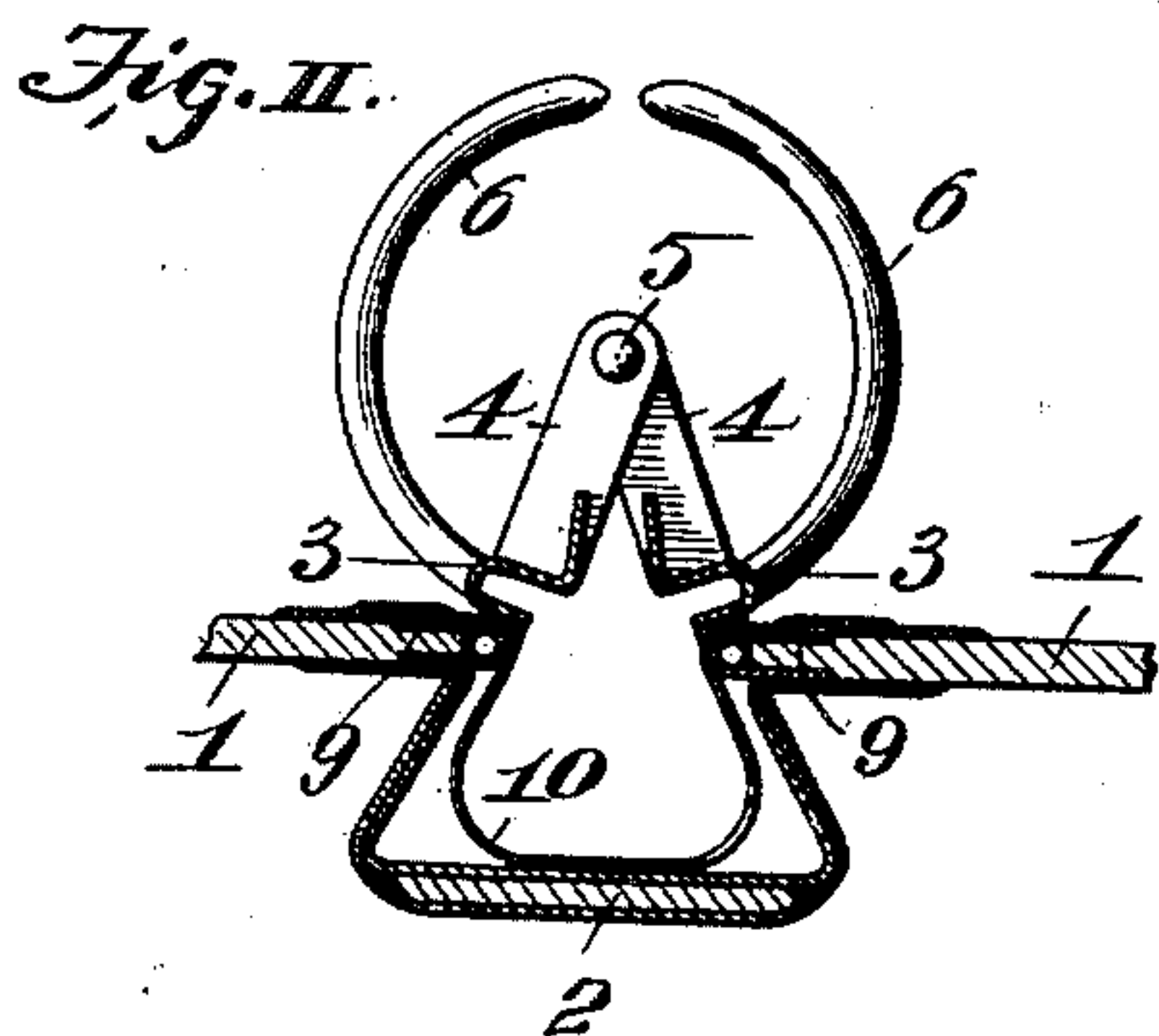
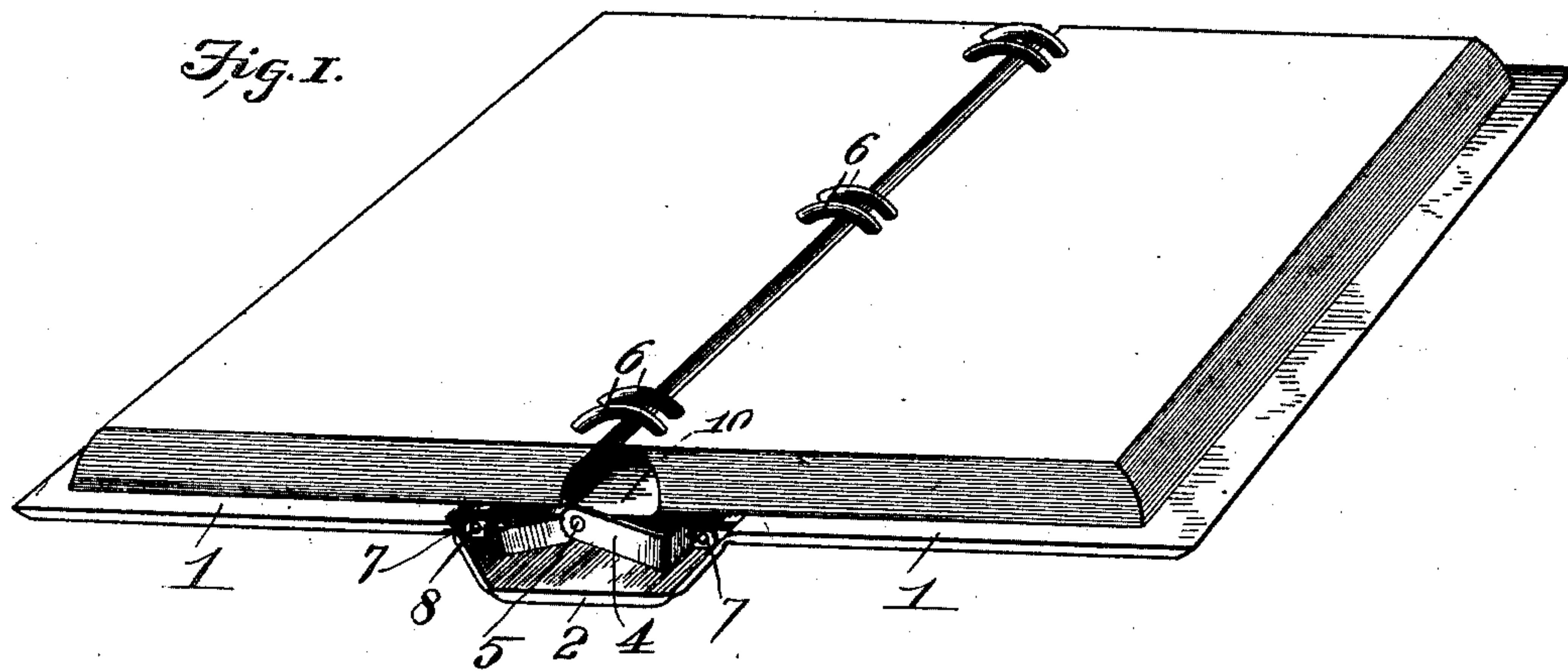


No. 719,063.

PATENTED JAN. 27, 1903.

E. A. TRUSSELL.
TEMPORARY BINDER.
APPLICATION FILED JUNE 4, 1902.

NO MODEL.



Attest:

G. A. Pennington
W. Smith

Inventor:

E. A. Trussell:

by Wm. H. 1370
Attys.

UNITED STATES PATENT OFFICE.

EMORY A. TRUSSELL, OF ST. LOUIS, MISSOURI, ASSIGNOR TO SIEBER & TRUSSELL MFG. COMPANY, OF ST. LOUIS, MISSOURI, A CORPORATION.

TEMPORARY BINDER.

SPECIFICATION forming part of Letters Patent No. 719,063, dated January 27, 1903.

Application filed June 4, 1902. Serial No. 110,137. (No model.)

To all whom it may concern:

Be it known that I, EMORY A. TRUSSELL, a citizen of the United States, residing in the city of St. Louis, in the State of Missouri, have
5 invented certain new and useful Improvements in Temporary Binders, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

10 My invention relates to that class of loose-leaf-holding binders in which a sheet-holding frame is used that is provided with arch-prongs that receive the loose sheets; and, briefly stated, the invention consists in a flexible
15 insertion member interposed between the cover-boards of a binder whereby when the binder is opened movement is imparted to the hinged members of the sheet-holding frame to increase the dimensions of the arch of the
20 sheet-holding prongs, so that the loose sheets held by the binder may be readily shifted on the prongs owing to the production of the widened area of the arches.

25 The invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Figure I is a perspective view of a binder constructed in accordance with my improvement. Fig. II is an end view of the binder,
30 showing the parts in the condition assumed when loose sheets are placed therein or removed therefrom. Fig. III is an end view of the binder in flat open condition. Fig. IV is an end view of the binder in closed condition.

35 11 designate the cover-boards of the binder that are united by a back 2. The sheet-holding frame that is connected to the cover-boards 1 is composed of a pair of bars 3, having hinge-arms 4 at their ends that are united
40 by pivot-pins 5.

6 designates the arch-prongs that are carried by the bars 3 and are adapted to overlap each other and to receive the loose sheets placed thereon in a well-known manner, as
45 is usual in the use of binders of the description to which my invention relates.

The bars 3 of the sheet-holding frame are each provided at their ends with outturned ears 7, that are adapted to receive hinge-pins
50 8, by which the sheet-holding frame is swing-

ingly connected to the cover-boards of the binder.

9 designates U-shaped strips applied to the inner edges of the cover-boards 1 and which are adapted to receive the hinge-pins 8, that
55 are passed through the ears 7 of the bars 3.

10 designates a flexible insertion member, preferably of cloth, that is fixed to the cover-boards 1 and extended across the space between said cover-boards at the rear of the
60 sheet-holding frame of the binder. The edges of the insertion member 10 are attached to the cover-boards by any suitable means, such as by pasting them thereto, and the insertion member passes over the inner edges of the
65 strips 9 and therefrom back of the sheet-holding-frame bars 3, where it is in a position to bear against said bars.

In the practical use of the binder the operation of the parts is as follows: On the
70 opening of the binder the insertion member 10 is drawn taut by the spreading apart of the cover-boards 1, with the result that the frame-bars 3 are caused to move upwardly and inwardly toward each other, as seen in
75 Fig. III, thereby throwing the arch-prongs 6 in outwardly directions and increasing the dimensions of the arches. The enlarging of the arches formed by the arch-prongs affords increased area of the arches, thereby provid-
80 ing increased space for the movement of the loose sheets positioned on the arch-prongs, so that they may be moved to and fro in the binder when open with the greatest of freedom and without danger of their catching
85 against each other or becoming torn in their movement. The flexible strip 10 also operates to raise the center of the arc of the sheet-holding prongs above the line of the pivoted ears when the covers are flat open, so that
90 when the covers are moved laterally toward each other the center of the arc of the sheet-holding prongs is compelled to rise, thereby causing the arch-prongs to move apart for the insertion or removal of sheets.
95

I claim as my invention—

1. In a temporary binder, the combination of a pair of cover-boards, a sheet-holding frame, and a flexible insertion member connected to said cover-boards and adapted to
100

bear in a taut condition against the rear of said sheet-holding frame when the binder is opened, substantially as described.

2. In a temporary binder, the combination
5 of a pair of cover-boards, a sheet-holding frame comprising a pair of hinged members and arch-prongs, and a flexible insertion member connected to said cover-boards and arranged in the rear of said hinged frame mem-
10 bers, said insertion member being adapted to bear in a taut condition against the rear of said frame members when the binder is in opened condition, substantially as and for the purpose set forth.

15 3. In a temporary binder, the combination

of a pair of cover-boards, a sheet-holding frame comprising a pair of hinged members and arch-prongs, and a flexible insertion member connected to said cover-boards and adapted to operate in conjunction with the said
20 cover-boards when opened to elevate the hinged connection of the members of the said sheet-holding frame to a point above the line of the hinged connection of the said cover-boards and said sheet-holding frame, sub-
25 stantially as and for the purpose set forth.

EMORY A. TRUSSELL.

In presence of—

E. S. KNIGHT,
M. P. SMITH.