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Patented Feb. 11, 1902.

W. MERKER.
SWING.

(Application filed June 8, 1901.)

(No Model.)

2 Sheets—Sheet 1.

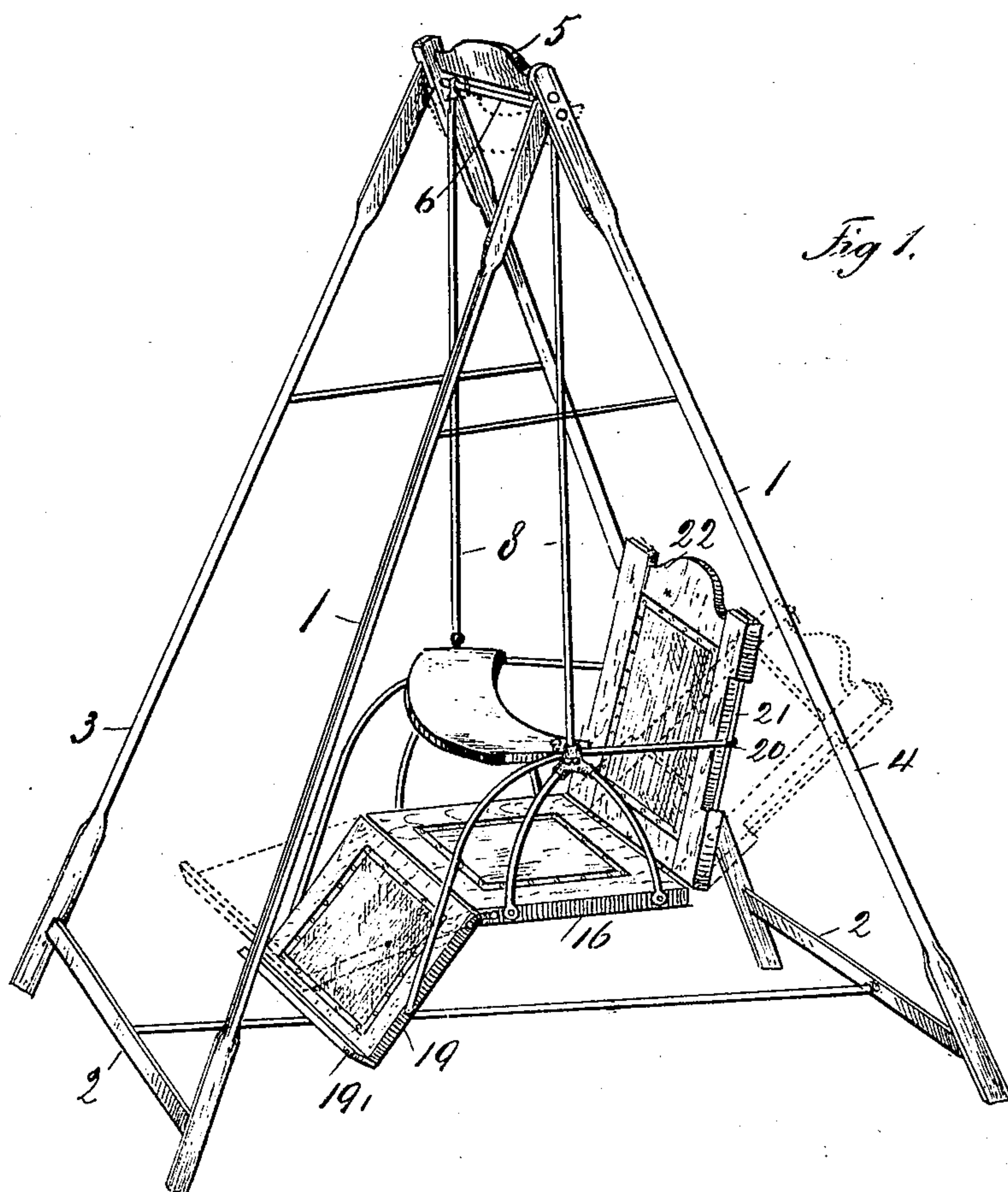
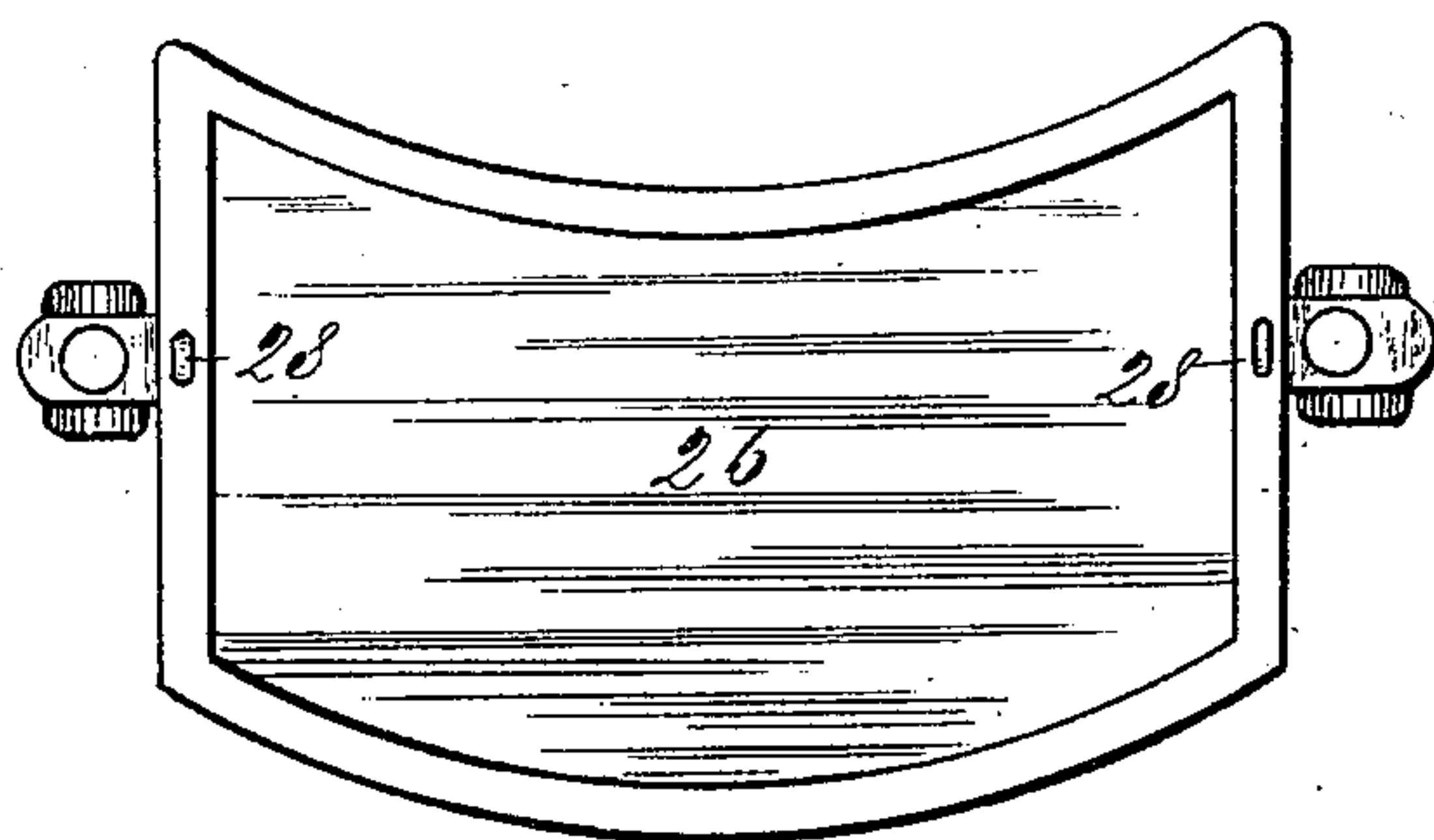


Fig 1.

Fig 2.



WITNESSES

L. R. Bayer
F. A. Stewart

INVENTOR.
William Merker
BY
Edgar J. Fitch
ATTORNEYS

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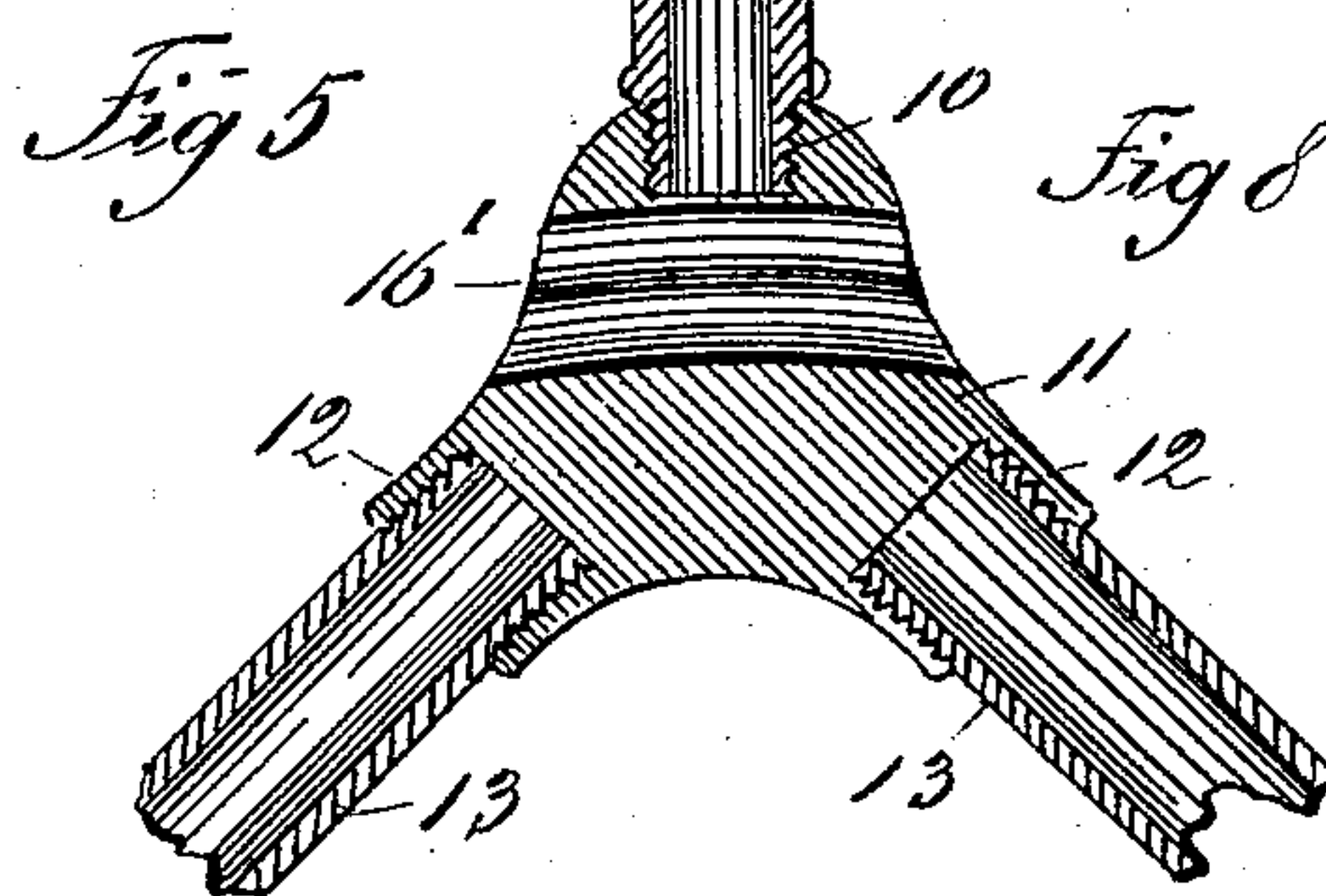
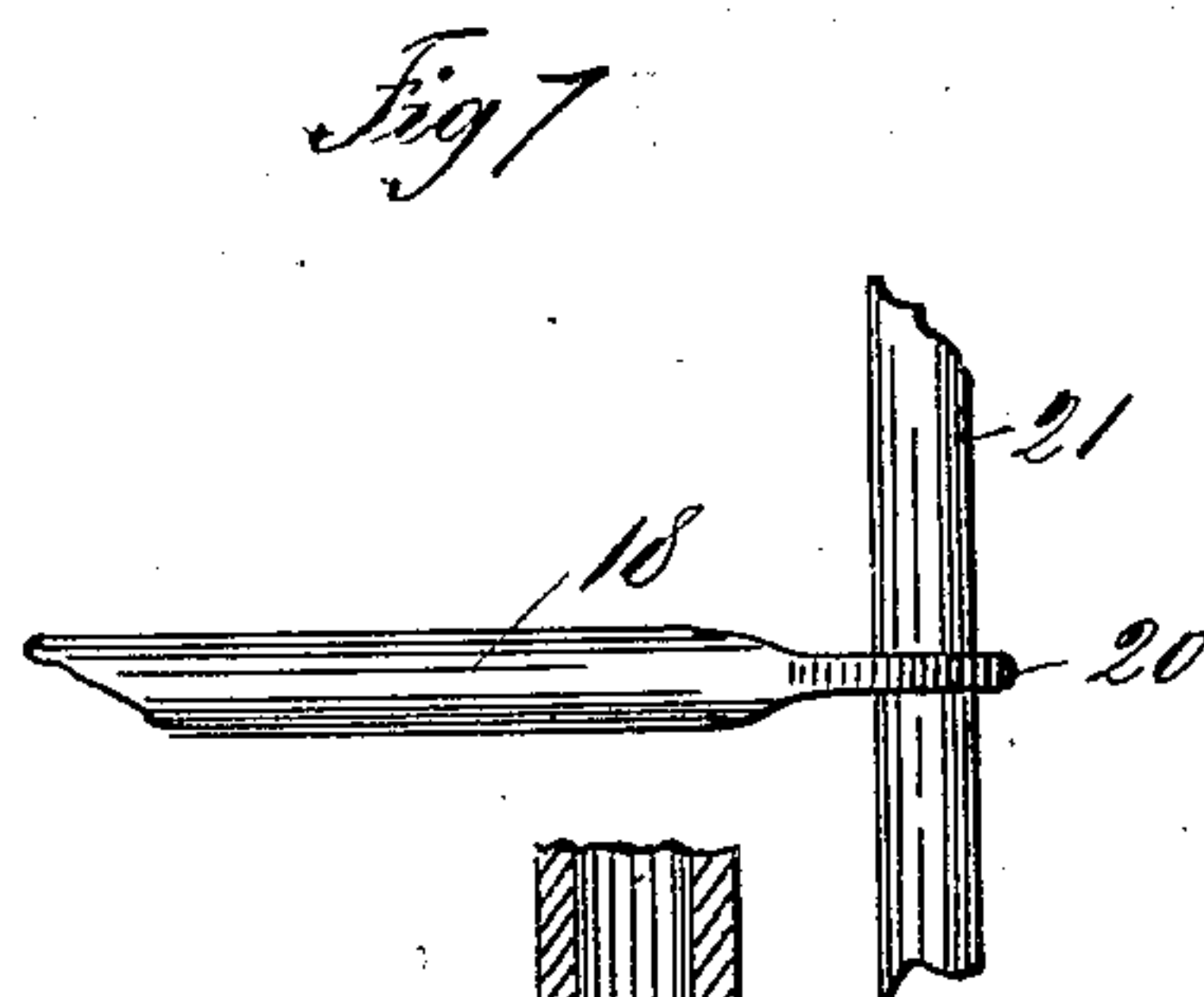
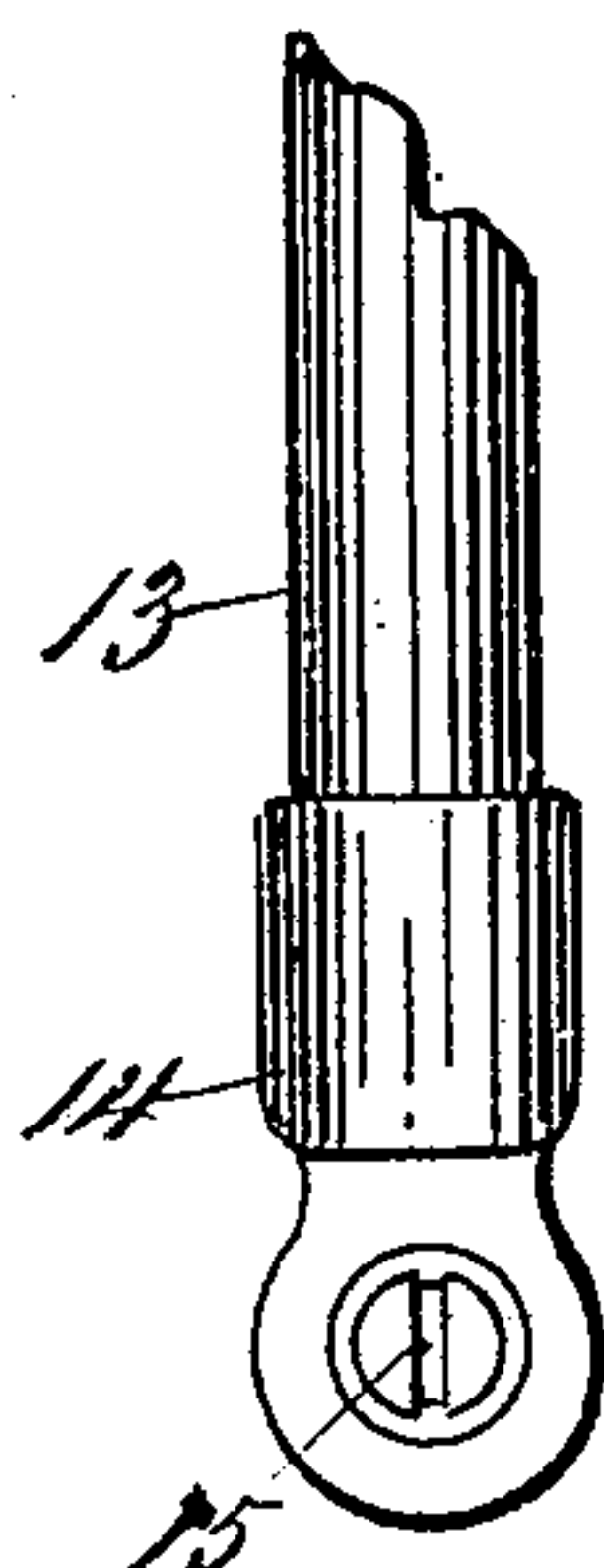
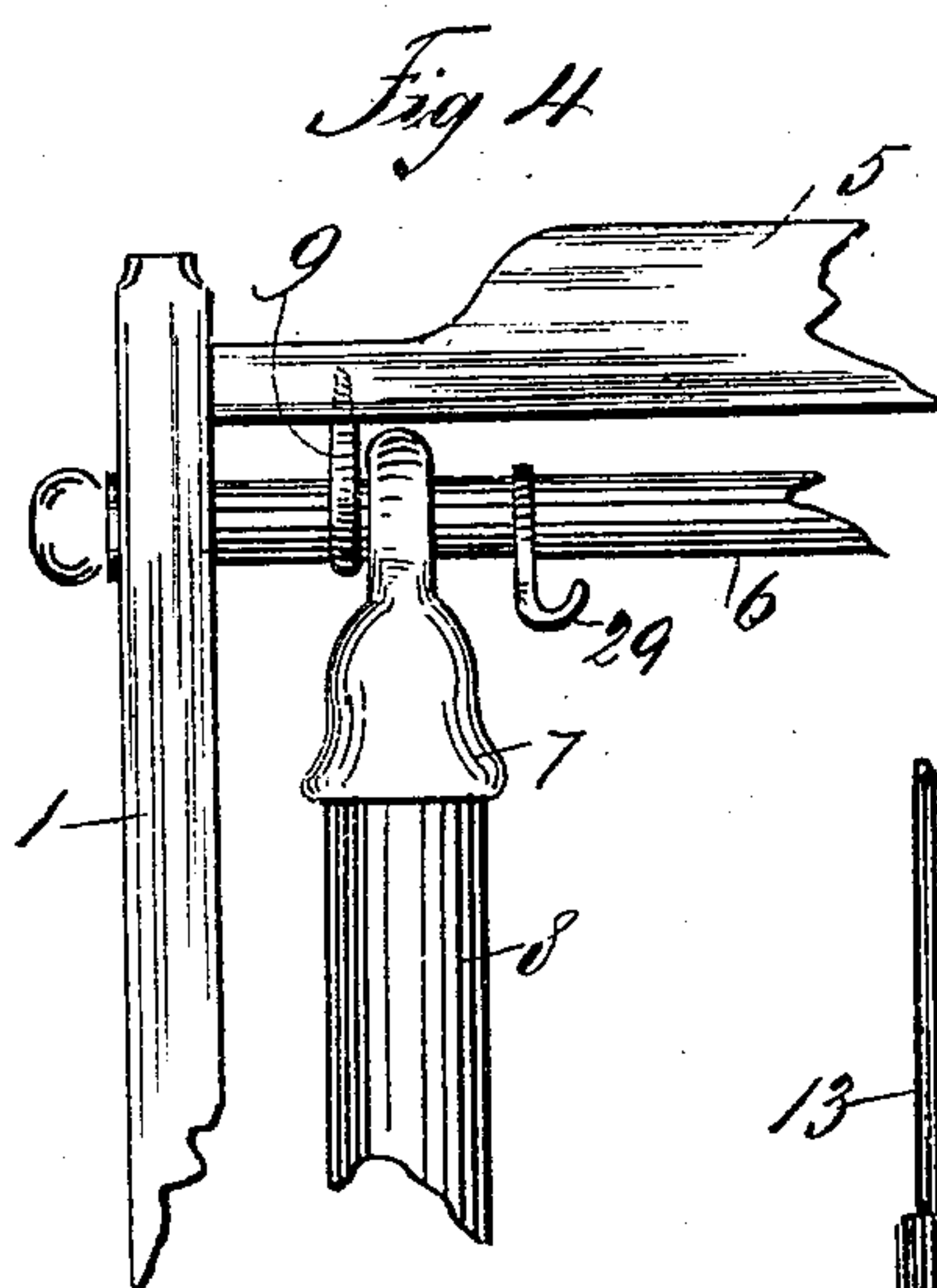
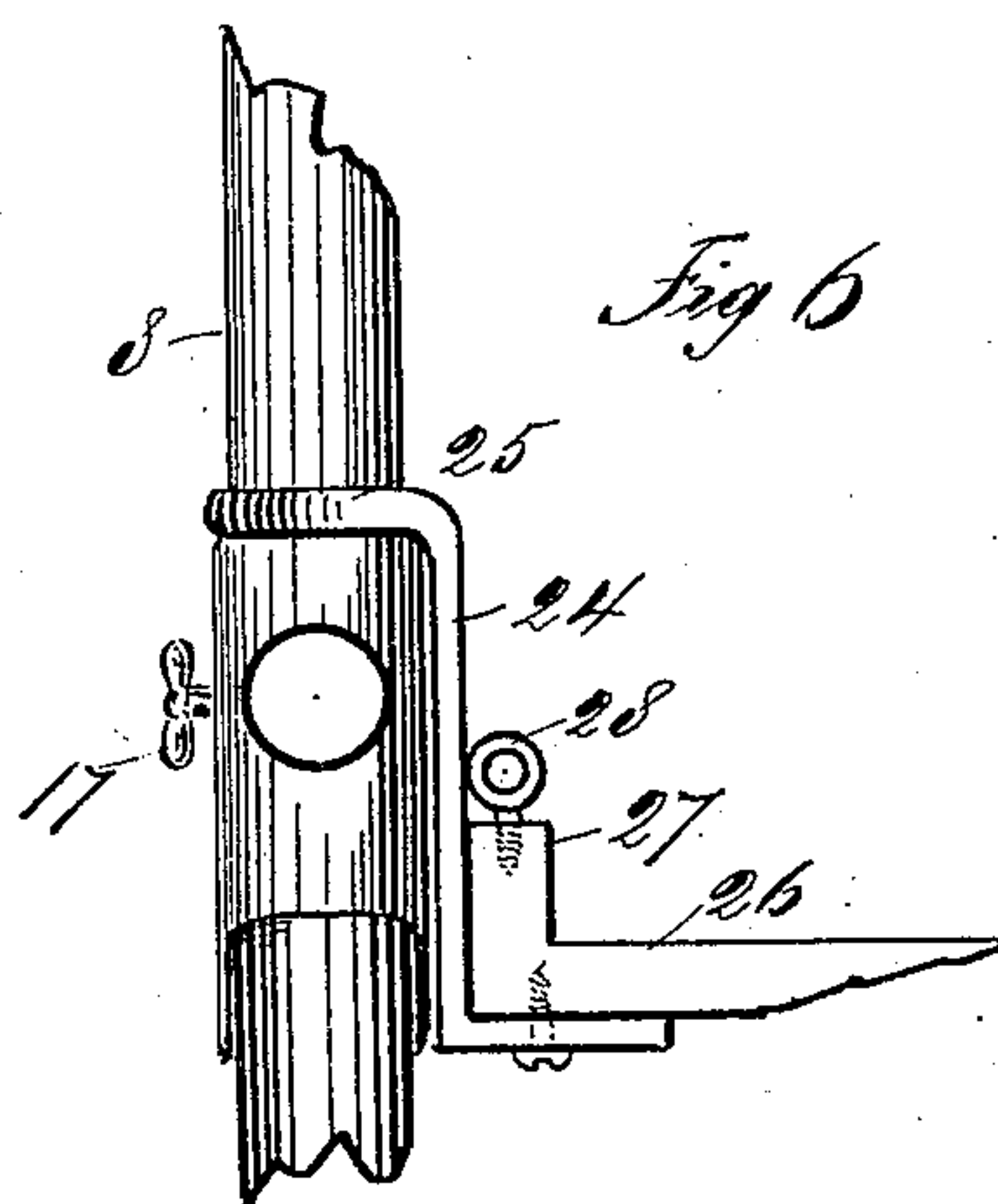
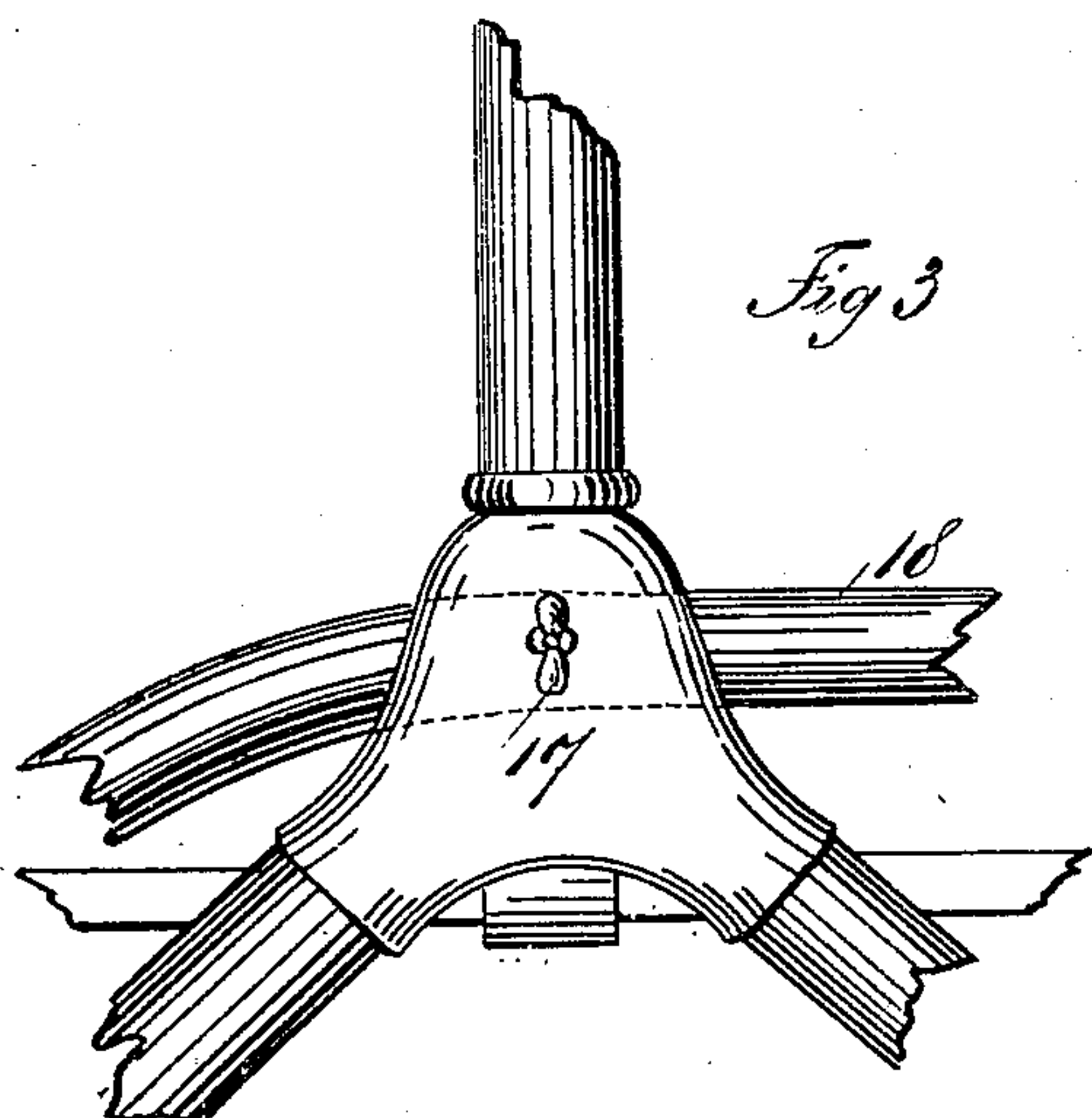
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WITNESSES

L. H. Bayler.
F. W. Stewart

INVENTOR
BY William Merker
Edgar J. Vetter
ATTORNEYS

UNITED STATES PATENT OFFICE.

WILLIAM MERKER, OF NEW YORK, N. Y.

SWING.

SPECIFICATION forming part of Letters Patent No. 693,040, dated February 11, 1902.

Application filed June 8, 1901. Serial No. 63,677. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM MERKER, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Swings, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

The object of my invention is to provide a swing of a new and improved form adapted for use either by children or adults, the seat of which may be shifted into various positions, from that of a reclining-chair or couch to that of an upright seat or chair.

To such ends my invention consists in a suitable collapsible supporting-frame and a chair or seat supported therein, said chair or seat having an adjustable back and an adjustable leg-rest supported by rods pivoted at the upper end in the upper portion of the frame, the supporting-rods ending in bottom Y's, the fork ends of which are secured to the seat, such Y's being formed by screwing short cylindrical or tubular rods in Y-unions having a passage at right angles to the supporting-rod to receive an adjustable regulating-rod secured at one end by a pivotal connection to the leg-rest and at the other to the chair or seat back by a sliding connection, and a set-screw in the union or Y for securing the securing-rod against movement in such union.

In the accompanying drawings, forming part of this specification, in which like numerals of reference designate corresponding parts in the several views, Figure 1 is a side view in perspective of my improved swing, showing in full lines the adjustable seat or chair in the upright sitting position, with the combined work-table and guard in position upon the chair and showing in dotted lines the chair in the reclining position and guard in the raised non-working position. Fig. 2 is a top view of the combined work-table and guard. Fig. 3 is a side view in detail, on an enlarged scale, of the Y-joint of the supporting-rods with the adjustable securing-rod in position therein. Fig. 4 is a front view of one side of the top portion of the supporting-frame, showing the manner of securing the supporting-rods thereto and showing one of

the hooks for supporting the combined work-table and guard-frame in the raised position in position on the rod to which the supporting-rods are pivoted. Fig. 5 is a view in detail of the lower portion of one of the lower ends of the Y of the supporting-rod. Fig. 6 is a front view of one of the supporting-rods, showing the work-table and guard in the lowered position thereof. Fig. 7 is a detail side view of the end of one of the chair-securing rods, showing the manner of adjustably securing the same to the slide-rods upon the chair-back; and Fig. 8 is a side view, in central vertical section, of the Y-coupling shown in Figs 3 and 6.

To form my improved swing, I provide four corner-pieces 1, of such height as to form a suitable supporting-framework for the swing, which side pieces 1 are joined together by pieces 2 at the bottom to form a front portion 3 and a rear portion 4 of the support or frame, which are joined together at the top by a top piece 5, as shown in Fig. 1, so as to form a frame of wedge shape. Supported at either end in the opposite pieces 1 adjacent to the top piece 5 is a rod 6 of brass or steel, upon which are hung, so as to swing easily thereon, the eye ends 7, secured to the upper ends of the supporting-rods 8. These eye ends 7 are screwed upon the rods 8, which rods are usually of brass or steel and of the tubular form shown in Fig. 8, and in order to prevent the rods 8 from working outward, so as to touch the side pieces 1, screw-eyes 9 are usually secured to the top piece 5 between the end eyes 7 and such side pieces 1, as shown in Fig. 1.

The supporting-rods 8 are provided at the bottom with a screw-thread, as shown at 10 in Fig. 8, and are there screwed firmly into a Y coupling or casting 11 of the form shown in cross-section in Fig. 8, provided on the bottom side with two female screw-threads 12, in which are secured the upper ends of the pieces 13 of such securing-rod, to the bottom of which pieces 13 are screwed in like manner an end eye 14, through the eye of each of which passes a screw 15, by which the same are secured to the chair-seat 16, as shown in Figs. 1 and 5.

The Y-couplings 11 are each provided with a passage 16', having on the outer side a

thumb set-screw 17, and through this passage 16 passes the adjusting-rod 18, which is provided at the lower end with an eye similar to 14 and is secured in a similar manner to the side of the leg-rest 19. This adjusting-rod 18 is provided at its upper rear end with a suitable eye 20, through which passes the slide-rod 21, which is secured at the upper and lower ends in the chair-back 22, so as to slide easily up and down thereon, as shown in Figs. 1 and 7. These various rods may be made of any suitable material, but are usually of steel or brass, and while they may be made solid are usually of the tubular form shown.

Supported upon the supporting-rods 8, so as to slide easily up and down thereon by means of brackets 24, having eyes 25, through which the rods 8 pass, is a combined guard and work-table 26 of any desired form, usually of that shown in Fig. 2, having the retaining-ledge 27 and provided at either end adjacent to the supporting-brackets 24 with screw-eyes 28, adapted to hook into the hooks 29, carried by the rod 6, at either end, so as to support such guard and table 26 out of the way of the seat and in the raised position shown in dotted lines in Fig. 1.

The back 22 and the leg-rest 19, which latter is usually provided with the foot-board 19', are hinged or pivotally secured to the seat 16 in any desired manner, so as to be swung into the required positions, and to do this it is only necessary to loosen the set-screws 17, when by proper manipulation of the back or leg-rest the two may be placed in any required position, the adjusting securing-rods when the set-screws are released sliding easily through the passages 16 of the Y-coupling pieces 11 and the pivoted connections of such rod 18 with the leg-rest 19 and the sliding connection with the rod 21 permitting this adjustment to be brought about with ease.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a swing, the combination with a suitable supporting-frame, of a chair-seat having an adjustable back and an adjustable leg-

rest, slide-rods secured to either side of the adjustable back of the chair, supporting-rods secured at the top to the supporting-frame and at the bottom to the chair-seat, side-adjusting rods secured to the slide-rods of the chair-back so as to slide up and down thereon, and secured at the other end to the leg-rest by a pivotal connection, and means for adjustably locking the side rods to the supporting-rods, substantially as shown and described.

2. In a swing, the combination with a suitable supporting-frame, a chair-seat, supporting-rods pivotally supported at the top in the frame having bifurcated lower ends secured to the chair-seat, a leg-rest hinged to the seat, a back hinged to the seat, a slide-rod on either side of the back, a securing-rod on either side of the seat, slidingly secured upon the slide-rod and pivoted at the other end to the leg-rest passing through the supporting-rods just above the point of bifurcation, and a set-screw for securing the securing-rods carried by the supporting-rods, substantially as shown and described.

3. In an adjustable chair, the combination with a seat of a leg-rest and a back hinged thereto at the front and rear, slide-rods located on either side of the back, securing-rods pivotally secured at one end to the leg-rest through the other end of which one of the slide-rods passes, a coupling or boss having a passage through which the securing-rod passes, and a downwardly-extending bifurcation secured to the chair-seat on either side, and a set-screw in the coupling or boss for locking the securing-rods against movement therein and means for supporting said coupling or boss, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 5th day of June, 1901.

WILLIAM MERKER.

Witnesses:

C. LADD DAVIS,
T. A. STEWART.