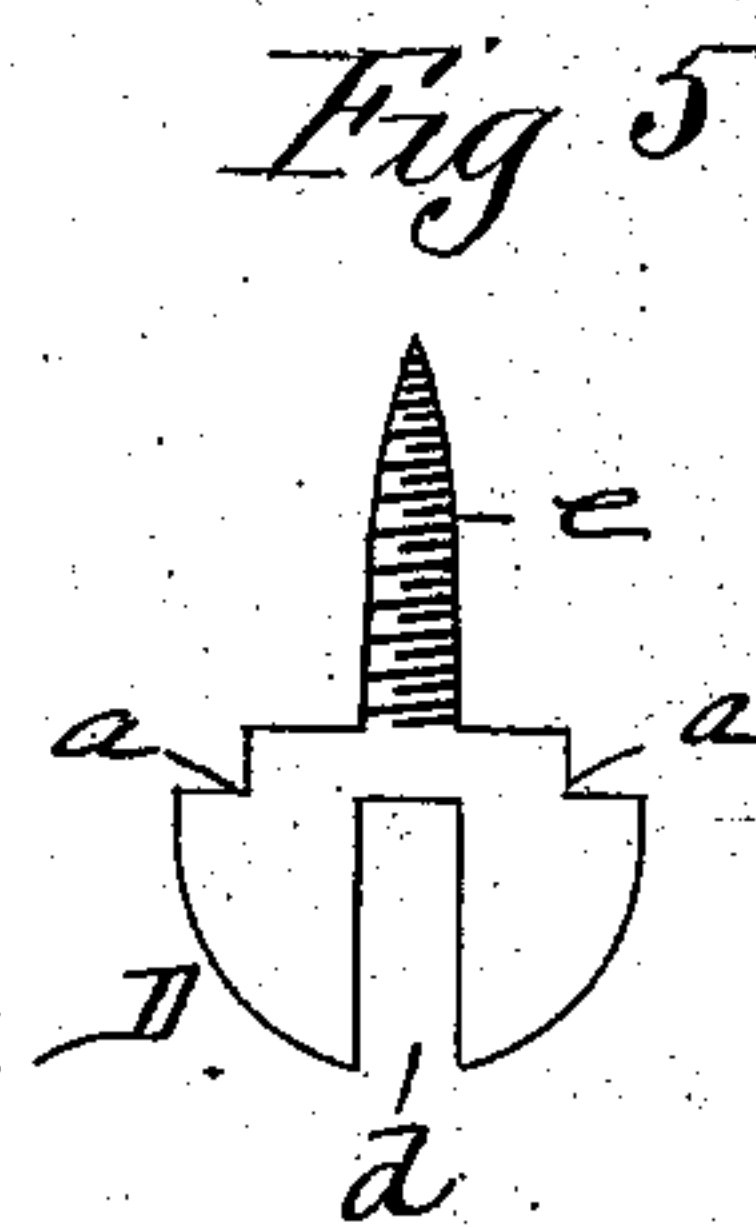
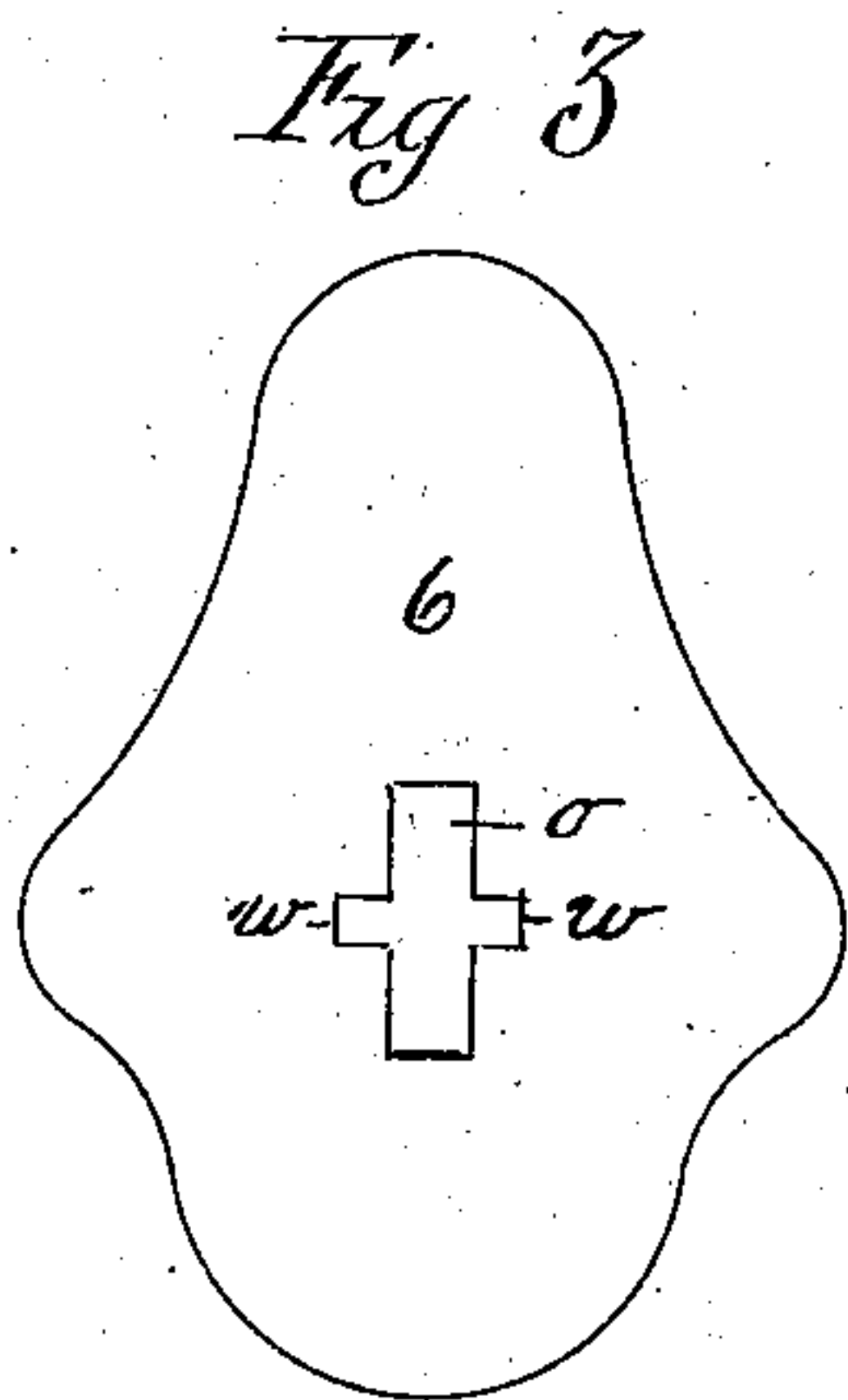
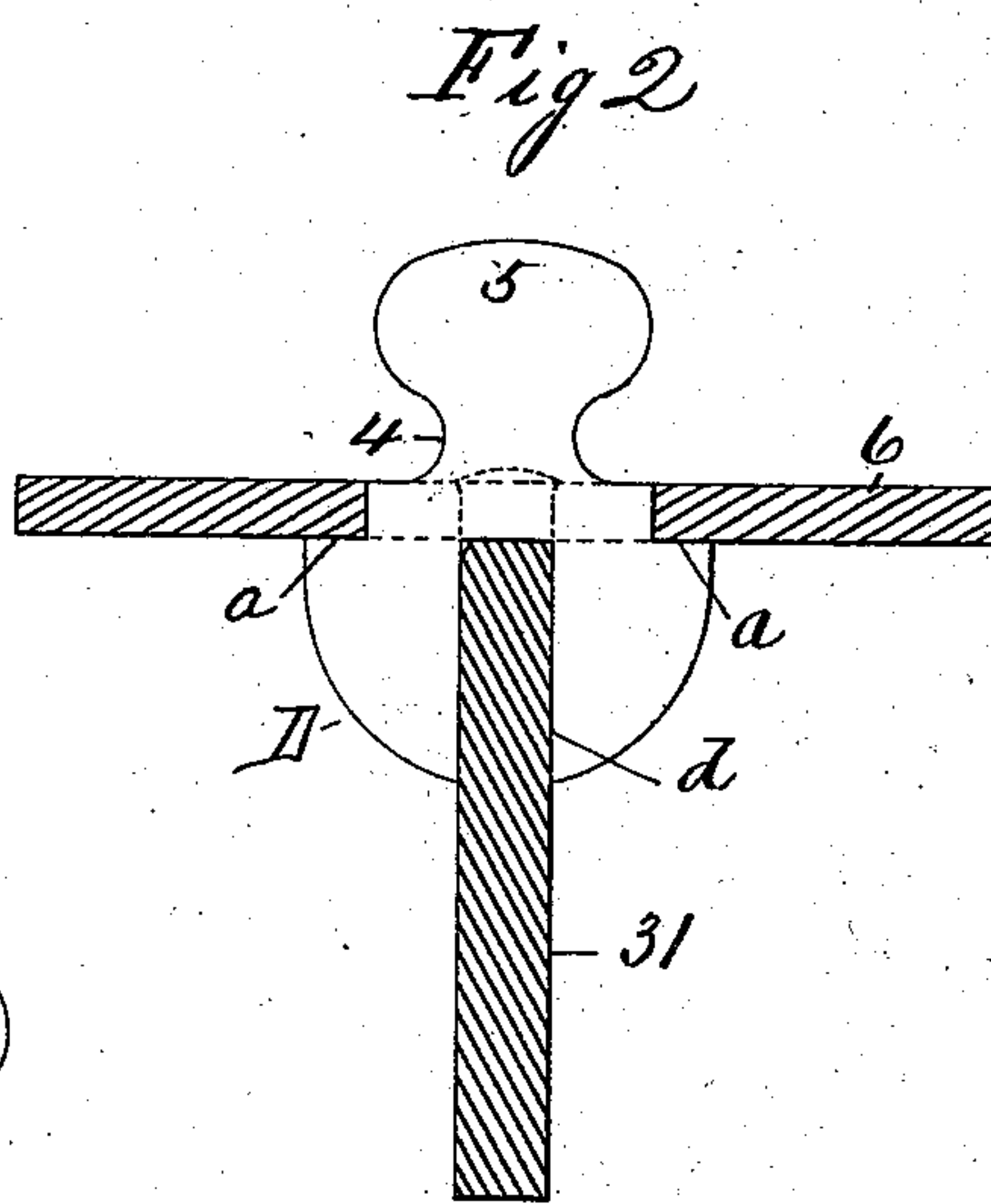
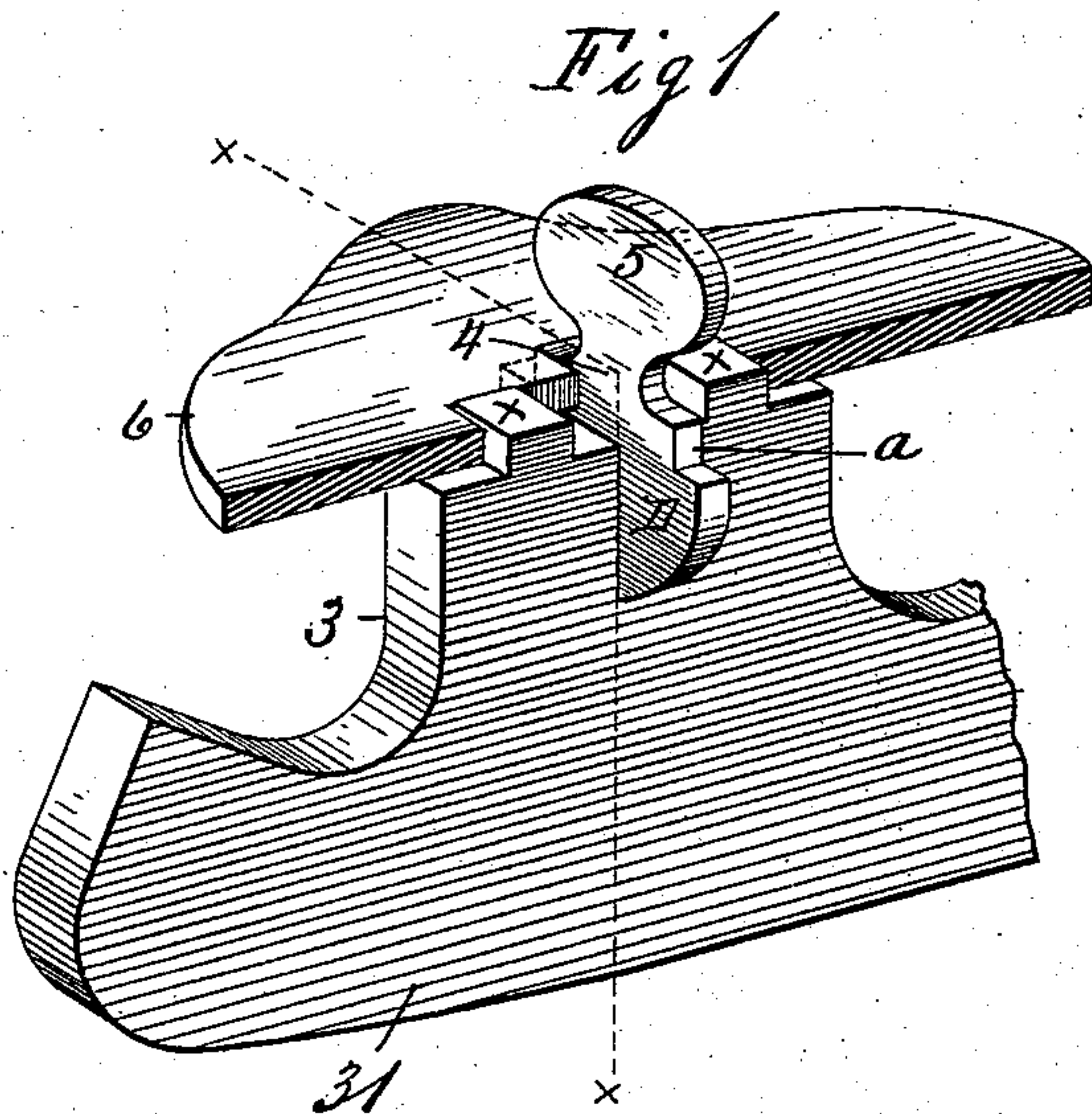


(No Model.)

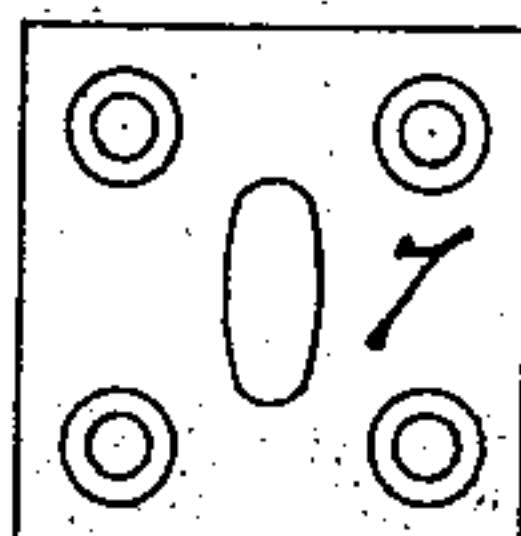
E. H. BARNEY.  
SKATE FASTENING.

No. 377,734.

Patented Feb. 14, 1888.



*Fig 4*



Witnesses  
*Wm. H. Chapin*  
*G. M. Chamberlain.*

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By *his* Attorneys *Chapin & Co.*



# UNITED STATES PATENT OFFICE.

EVERETT H. BARNEY, OF SPRINGFIELD, MASSACHUSETTS.

## SKATE-FASTENING.

SPECIFICATION forming part of Letters Patent No. 377,734, dated February 14, 1888.

Application filed December 1, 1887. Serial No. 256,597. (No model.)

*To all whom it may concern:*

Be it known that I, EVERETT H. BARNEY, 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 Skate-Fastenings, of which the following is a specification.

This invention relates to skate-fastenings, and pertains to an improved heel-button and means for attaching the same to the skate, all as hereinafter fully described, and pointed out in the claim.

In the drawings forming part of this specification, Figure 1 is a perspective view of the rear end of a skate-runner and a longitudinal section of the heel-plate and of the heel-button thereof embodying my improvements. Fig. 2 is a transverse section of the runner and the heel-plate on the line *xx*, Fig. 1, (the whole width of said plate being shown,) and a side elevation of the heel-button. Fig. 3 is a plan view of the heel-plate, and Fig. 4 a like view of a heel-button plate used in connection with said button. Fig. 5 is a side elevation illustrating a modified construction of heel-fastening adapted to be substituted for the heel-button.

In the drawings, 31 indicates the rear end of a skate-runner, which is made preferably of malleable metal, and on which is the rear heel-plate standard, 3, having two riveting-studs, *xx*, formed on the end thereof.

The heel-plate 6 is made, preferably, of sheet metal (but may be cast) to provide for manufacturing the same economically by punching, and has the longitudinal slot *o* formed centrally therein, of suitable length to receive said two riveting-studs, *xx*, on the standard 3 when the heel-plate is placed thereon, as shown in Fig. 1, and in the opposite borders of said slot are formed the short lateral slots *w*, forming together an aperture in the heel-plate of suitable length to permit said plate to be placed on the standard 3 after the heel-button or fastening 4 has been placed thereon, and to allow said plate to receive that part of said button between its shoulders *a* just below the neck thereof, as clearly shown in Fig. 2. Said heel button or fastening 4 is also constructed, preferably, from sheet metal by punching it to the form shown in Figs. 1 and 2, whereby is formed the head 5 thereon, con-

nected by a neck to a bifurcated body, D, whereby the slot *d* is formed therein, and in the upper opposite edges of which are formed the shoulders *a a*. Said slot *d* is of such width as to permit the button to be placed on the end of the standard 3 in the position shown in Fig. 1, and having been so placed, it is there rigidly secured by placing the heel-plate 6 on said standard, as described, and engaging with the shoulders *a* of said button, and then riveting the ends of the studs *xx* against the upper side of said plate, thereby producing a strong, durable, and economical construction, and particularly the latter, for the parts are or may be all assembled in operative position, just as they are punched from the sheet metal, without finishing when making a low-priced skate.

In using a button having a head of the form substantially of the head 5 a button-plate, 7, Fig. 4, is screwed to the heel of the shoe, having a central oval-shaped opening in it to receive said head, which, being afterward turned by the movement of the skate under the shoe, becomes thereby engaged with said plate.

Fig. 5 illustrates a heel-fastening constructed in every respect like said button D, excepting that instead of the head 5 of the latter it has the pointed screw *e*. By using said last-named fastening, which is secured to the runner-standard in the same manner as is the button D, the button-plate 7 is dispensed with, for the screw *e* is screwed directly into the heel of the shoe, thereby securing the heel end of the skate thereto.

What I claim as my invention is—

The rear standard of a skate-runner, having one or more riveting-studs on its end, combined with a heel-fastening, as described, having a body in which is a slot to receive the end of said standard, and shoulders *a* in its opposite edges, and a projecting part above said body for engagement with the heel of a shoe, and a heel-plate riveted to said standard and slotted centrally to permit said heel-fastening to extend through it, and engaging with the shoulders in said fastening, substantially as set forth.

EVERETT H. BARNEY.

Witnesses:

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