No. 626,105. **Patented May 30, 1899.**

J. C. SMITH.
WASHING MACHINE.
(Application filed Mar. 10, 1899.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.

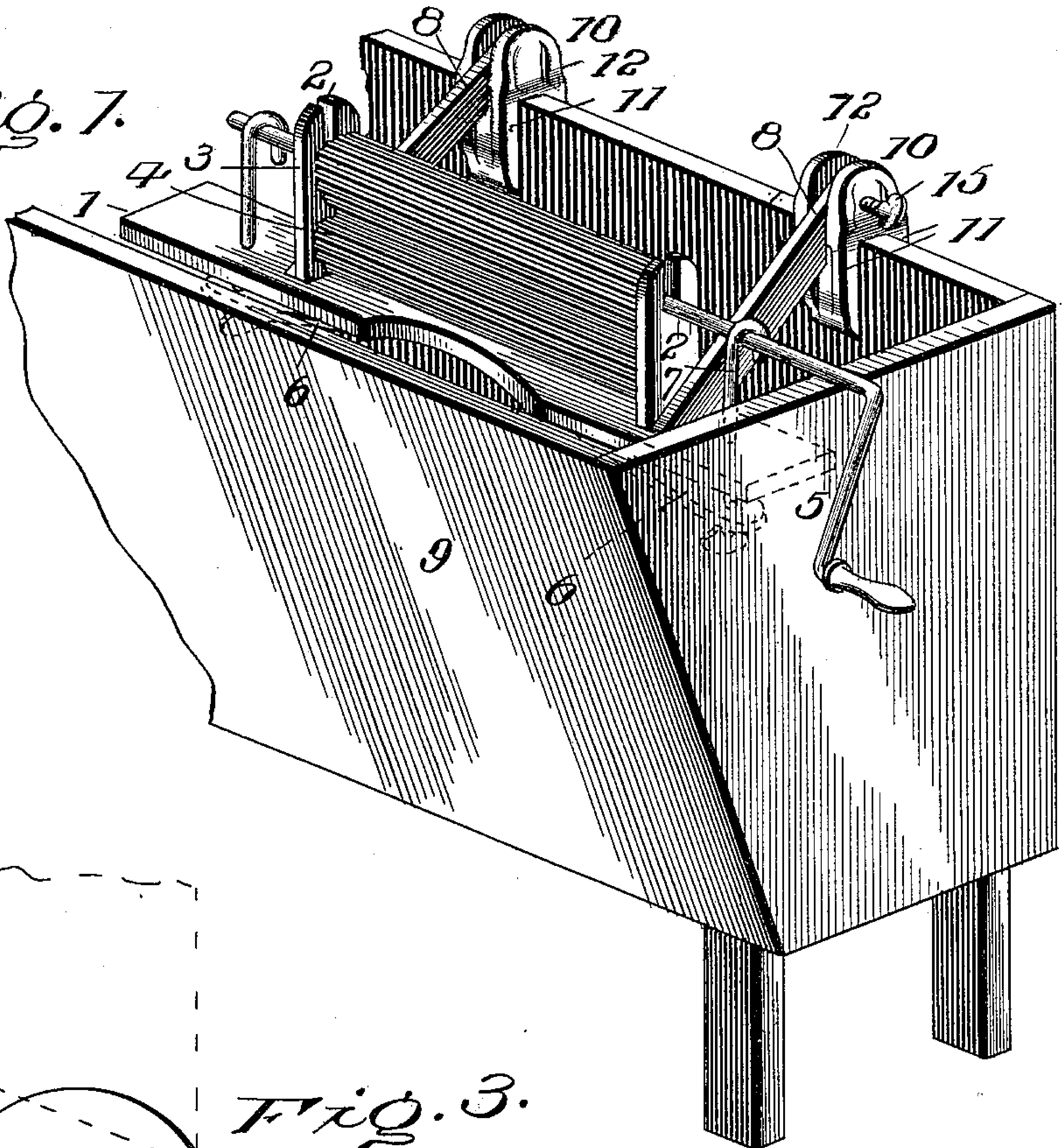


Fig. 3.

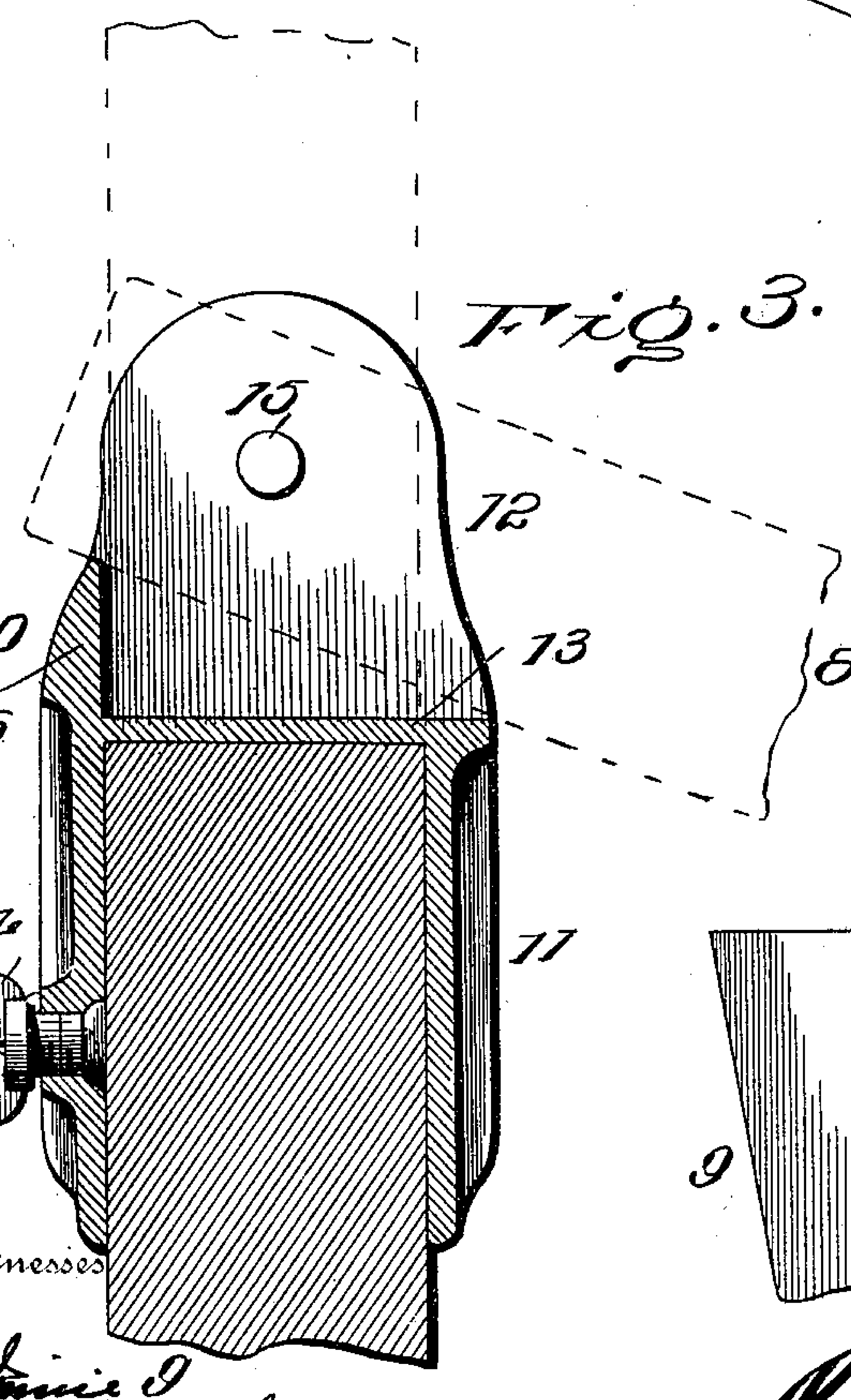
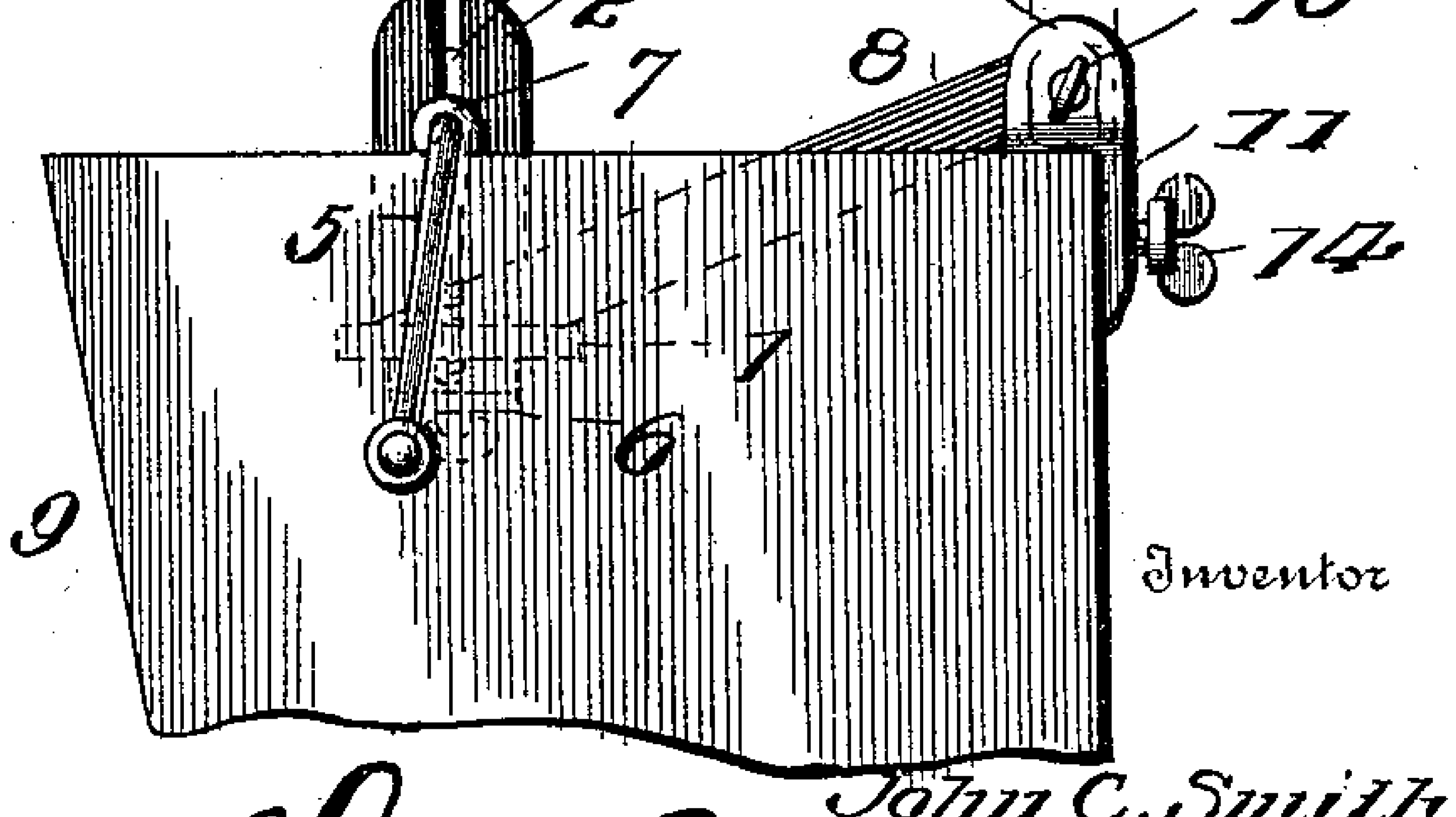


Fig. 2.



Witnesses
[signature]
Gladys D. Thompson

Inventor
John C. Smith
by R. S. & A. B. Lacey his Attorneys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 626,105.

Patented May 30, 1899.

J. C. SMITH.

WASHING MACHINE.

(Application filed Mar. 10, 1899.)

(No Model.)

2 Sheets—Sheet 2.

Fig. 4.

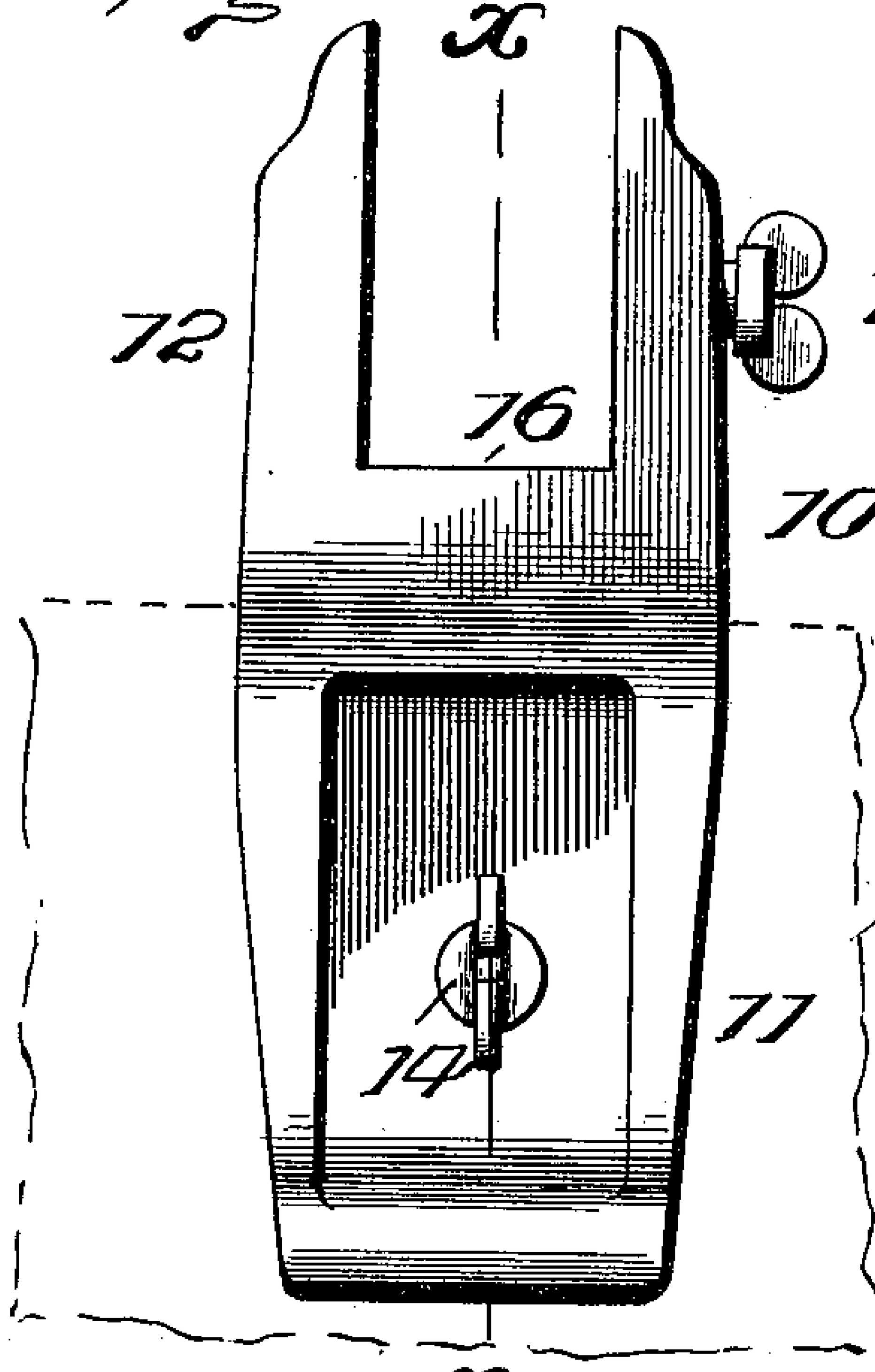


Fig. 5

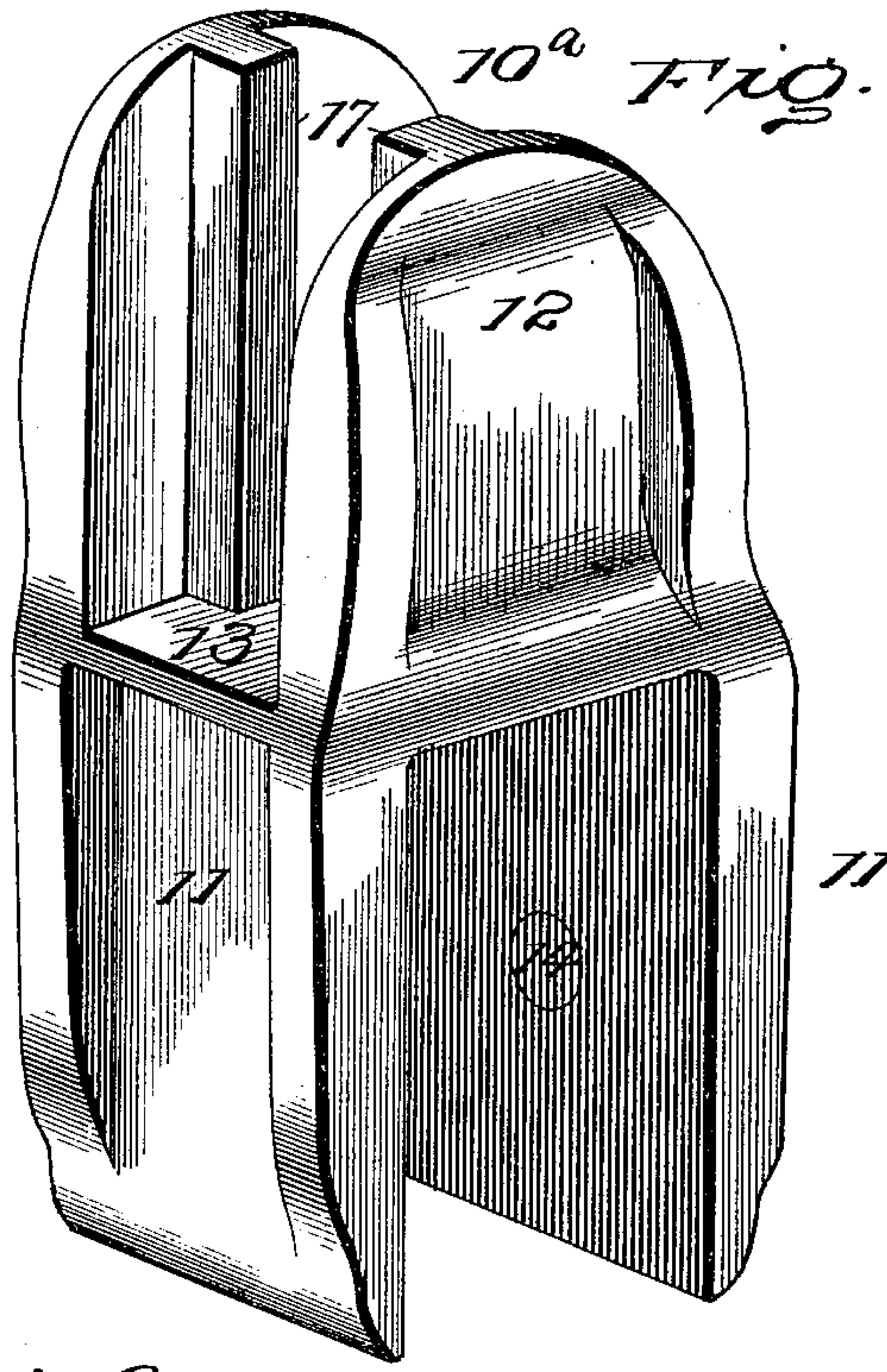


Fig. 6.

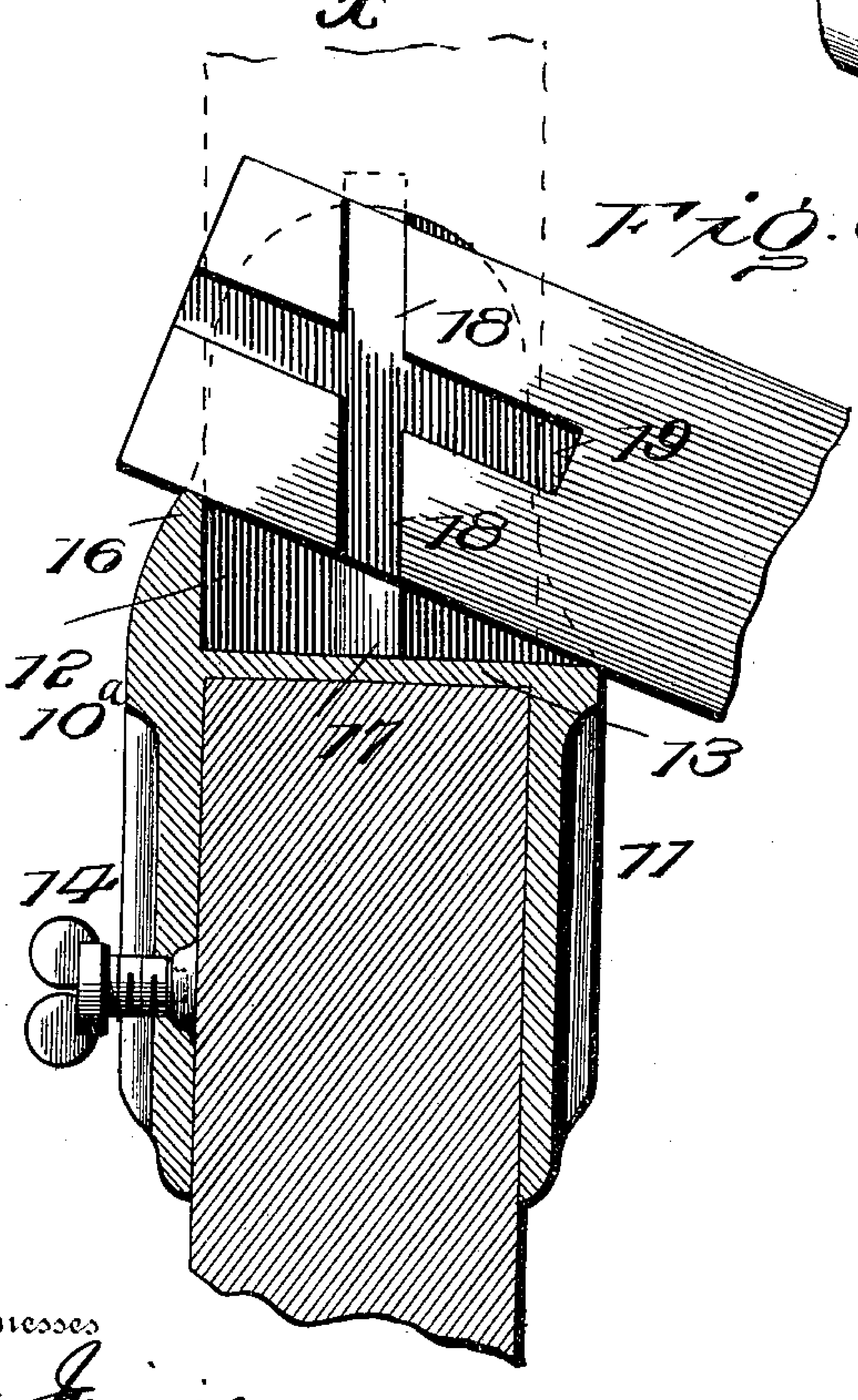
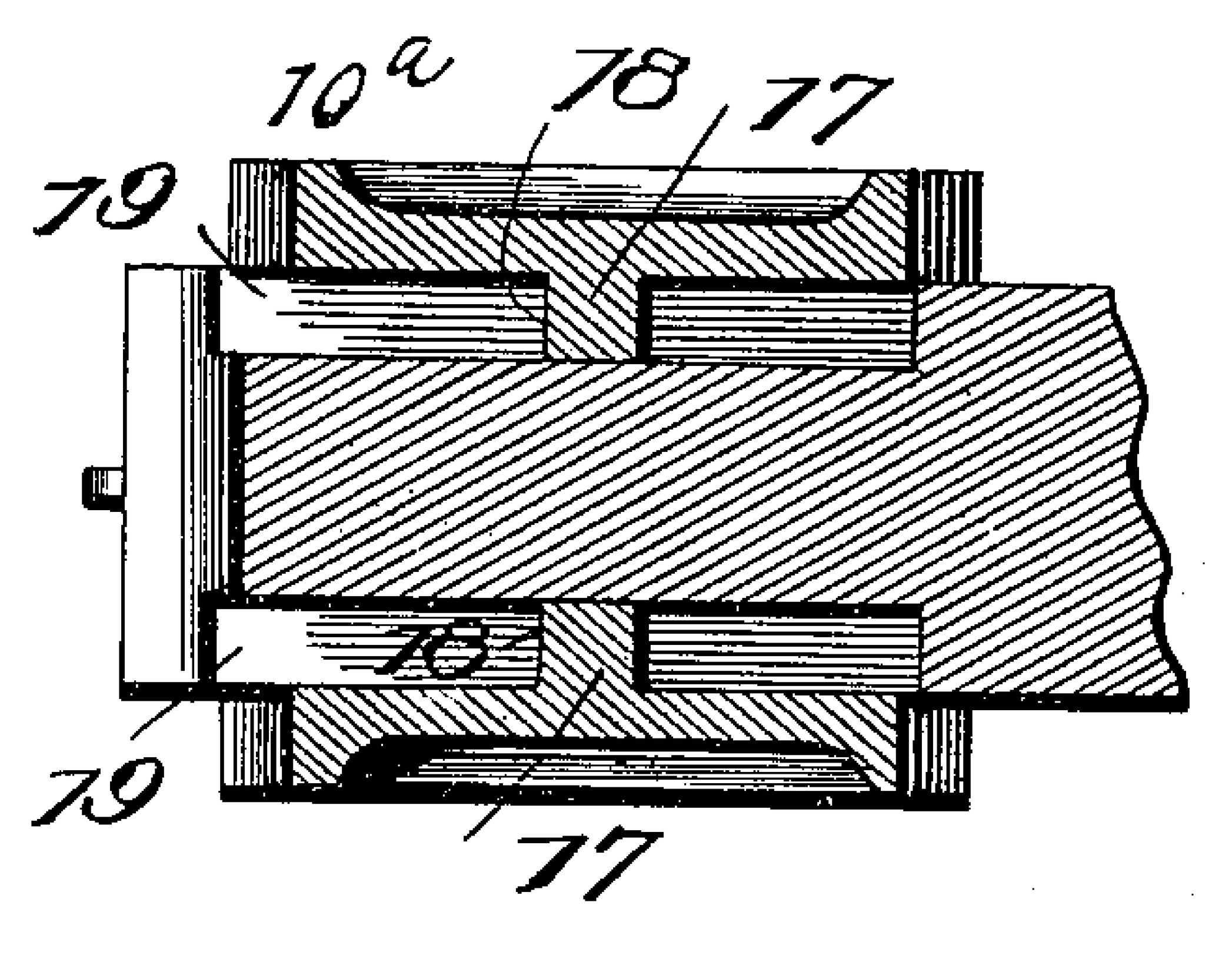


Fig. 7.



Witnesses

Jno. Imirie

Gladys L. Thompson.

Inventor

John C. Smith

by A. B. Wilson & Co. Lacey his Attorneys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JOHN C. SMITH, OF MASSAPEAG, CONNECTICUT.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 626,105, dated May 30, 1899.

Application filed March 10, 1899. Serial No. 708,579. (No model.)

To all whom it may concern:

Be it known that I, JOHN C. SMITH, a citizen of the United States, residing at Massapeag, in the county of New London and State of Connecticut, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to washing-machines, or, more properly speaking, to fastenings whereby a washer may be attached to stationary tubs or receptacles containing the suds-water or clothes to be laundered.

Considerable difficulty has been experienced heretofore in fixing the position of the washer with reference to a stationary tub without affixing the structure to either the floor or wall, which is not practicable or feasible. This invention provides a simple and effective means for rigidly connecting the washer directly to the tub in such a manner as to admit of it being quickly removed when not required for immediate use and easily replaced when required for service.

For a full understanding of the merits and advantages of the invention reference is to be had to the accompanying drawings, in which—

Figure 1 is a perspective view showing the invention operatively applied. Fig. 2 is a side elevation, the dotted lines showing the washer turned up out of the way. Fig. 3 is a section of the attachment on the line X X of Fig. 4. Fig. 4 is a rear view of the attachment. Figs. 5, 6, and 7 are detail views of a different form of attachment for holding the washer positively either in position or up out of the way.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The washer may be of any form, design, or make, and, as shown, consists of a base 1, having slotted uprights 2, rollers 3 and 4, journaled in the uprights, the journals of the upper roller 3 entering the slots of the uprights to admit of the roller moving to accommodate the space between the rollers to the bulk of clothing passing therebetween, a crank 5, applied to a journal of the upper roller, and a spring 6 of bow form applied to the lower side of the base 1 and having its terminals connected with the journals of the upper roller 3 by means of rods 7. Bars or arms 8 are attached to the base 1 and incline upwardly from the plane thereof.

The means for attaching the washer to the tub 9 consist of castings 10, having pendent wings 11 and vertical wings 12, the two sets of wings being disposed relatively at right angles to each other. A web or partition 13 separates the upper and lower wings and limits the downward movement of the casting when applied to the tub by extending over and resting upon the top edge thereof. The wings are depressed in their outer faces to secure lightness of structure and a neat appearance. The wings 11 receive between them the side of the tub, and a binding-screw 14 is applied to and operates in a threaded opening formed in one of the wings and enables the permanent attachment of the casting to the tub when in position. A clamp-screw 15 is fitted in a threaded opening of one of the wings 12 and bears against a side of one of the bars 8 and holds it in place. A vertical extension 16 rises from the rear end of the partition 13 and forms a rest for the rear end of a bar 8 and gives the proper inclination thereto when placing the washer in position. The bars 8 rest upon the top edges of the parts 16 and the upper forward corners or extremities of the partitions 13, the height of the extensions 16 being determined beforehand, so as to give the proper set to the arms or bars 8. The castings 10 are applied to the top edge portion of a side of the tub, preferably the rear side, and are secured by turning up the binding-screws 14.

The washer when required for service is positioned by having the ends of the bars or arms 8 placed between the vertical wings 12, the lower edges of the arms resting upon the extensions 16 and the upper forward corners of the partitions 13, after which the clamp-screws 15 are tightened, so as to hold the washer in place. When not required for immediate service, the washer can be quickly and easily removed by loosening the clamp-screws 15. The washer can be stowed away in any convenient place, or it may be supported

over the tub against the wall by turning the arms 8 into a vertical position with their ends resting squarely upon the partitions 13, as indicated by the dotted lines in Fig. 2. In this position the washer is out of the way and is conveniently at hand. The clamp-screws 15 are tightened to prevent the accidental displacement of the washer.

In the form of casting 10^a shown in Figs. 5, 6, and 7 vertical ribs 17 project inward from the faces of the wings 12 and aline transversely. Oblique grooves 18 extend transversely of the bars 8 and receive the ribs 17, thereby forming an interlocking means between the supporting-bars of the washer and the fastenings by means of which the washer is attached to the tub. These grooves 18 aline transversely and incline with reference to the bars 8, so as to occupy a vertical position when the washer is in an operative position. Other grooves 19 extend longitudinally of the bars 8 and are adapted to receive the ribs 17 and hold the washer up out of the way. In this construction the clamp-screws may be dispensed with, as the arms 8 will ordinarily hold the washer in position by reason of the binding action between the grooves 18 and the ribs 17. The use of the clamp-screws may be retained, if desired, to supplement the binding action of the ribs and grooves.

Having thus described the invention, what is claimed as new is—

1. Means for attaching the supporting arm or bar of a washer to the side of a tub or analogous support, the same consisting of a casting comprising a horizontal web, wings pendent from opposite edges of the web to embrace the sides of the tub, other wings rising vertically from the intermediate edges of the said web to receive between them the said arm or bar, the two sets of wings being arranged relatively at a right angle to each other, an extension rising vertically from the rear edge of the web for a short distance to form a support for the arm of the washer and to give a proper set thereto, and means for securing the casting to the tub and the arm of the washer to the casting, substantially as set forth.

2. In combination with a tub, and a washer having supporting-arms provided in their sides with corresponding grooves, castings applied to the tub and comprising vertical wings having ribs projecting inwardly from their faces and adapted to interlock with the grooves of the said supporting-arms and hold the washer in place, substantially as described.

3. In combination with a tub, and a washer having supporting-arms provided in their sides with corresponding transverse and longitudinal grooves, castings applied to the tub and comprising vertical wings having vertical ribs projecting inwardly from their faces and adapted to coöperate with the two sets of grooves and the supporting-arms and hold the washer in either of its two positions, substantially as described.

4. In combination with a tub, and a washer having supporting-arms provided in their sides with corresponding longitudinal and oblique transverse grooves, castings comprising pendent and vertical wings, horizontal webs, vertical extensions at the rear ends of the webs and vertical ribs projecting inwardly from the inner faces of the vertical wings and adapted to coöperate with the two sets of grooves of the supporting-arms and hold the washer in either an operative position or up out of the way, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN C. SMITH. [L. S.]

Witnesses:
WILLIAM N. ANDREW,
HOWARD C. RUSS.