

**No. 607,619.**

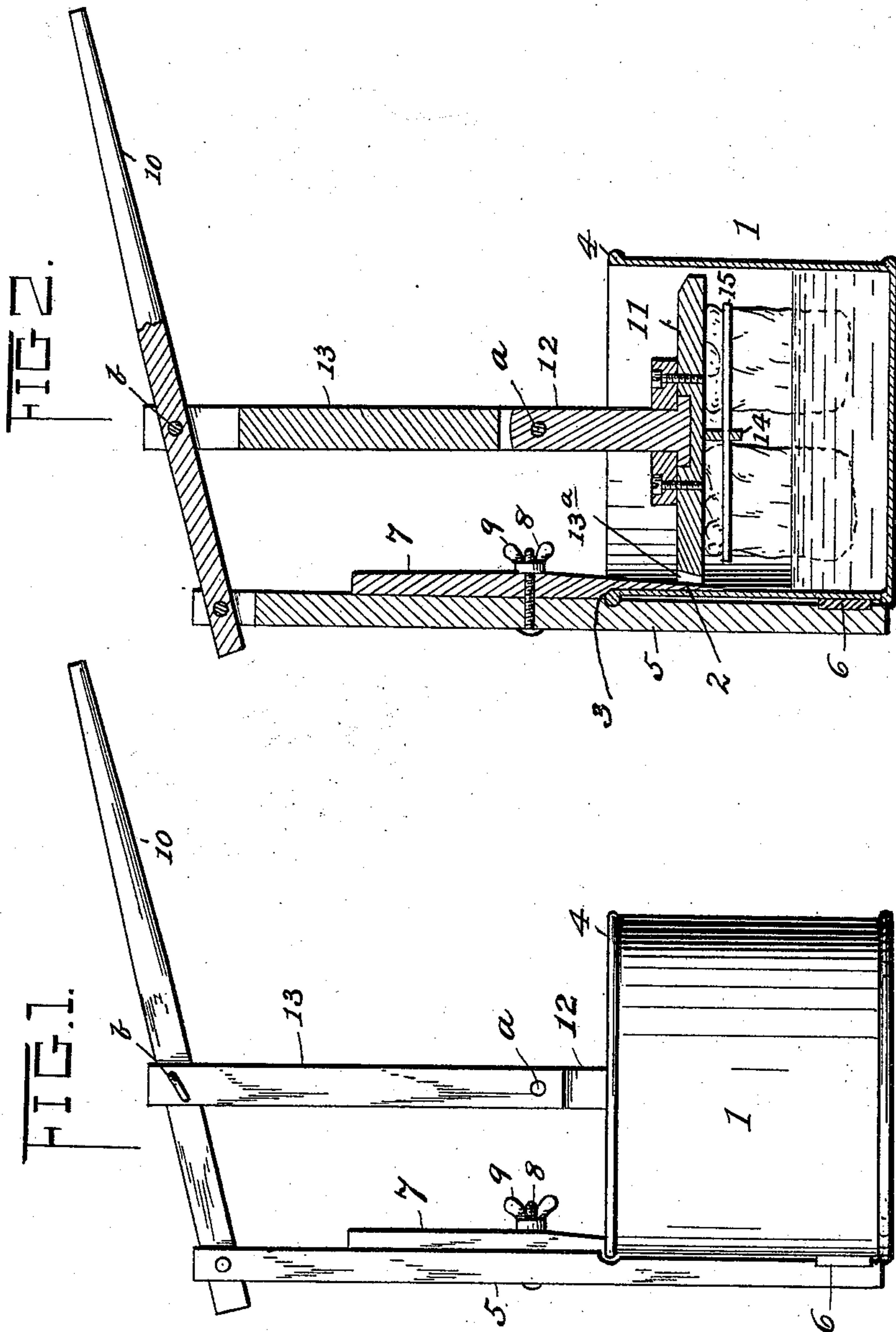
**Patented July 19, 1898.**

**F. L. JOHNSON.**  
**WASHING MACHINE.**

(Application filed Oct. 28, 1897.)

(No Model.)

**2 Sheets—Sheet 1.**



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FIG. 3.

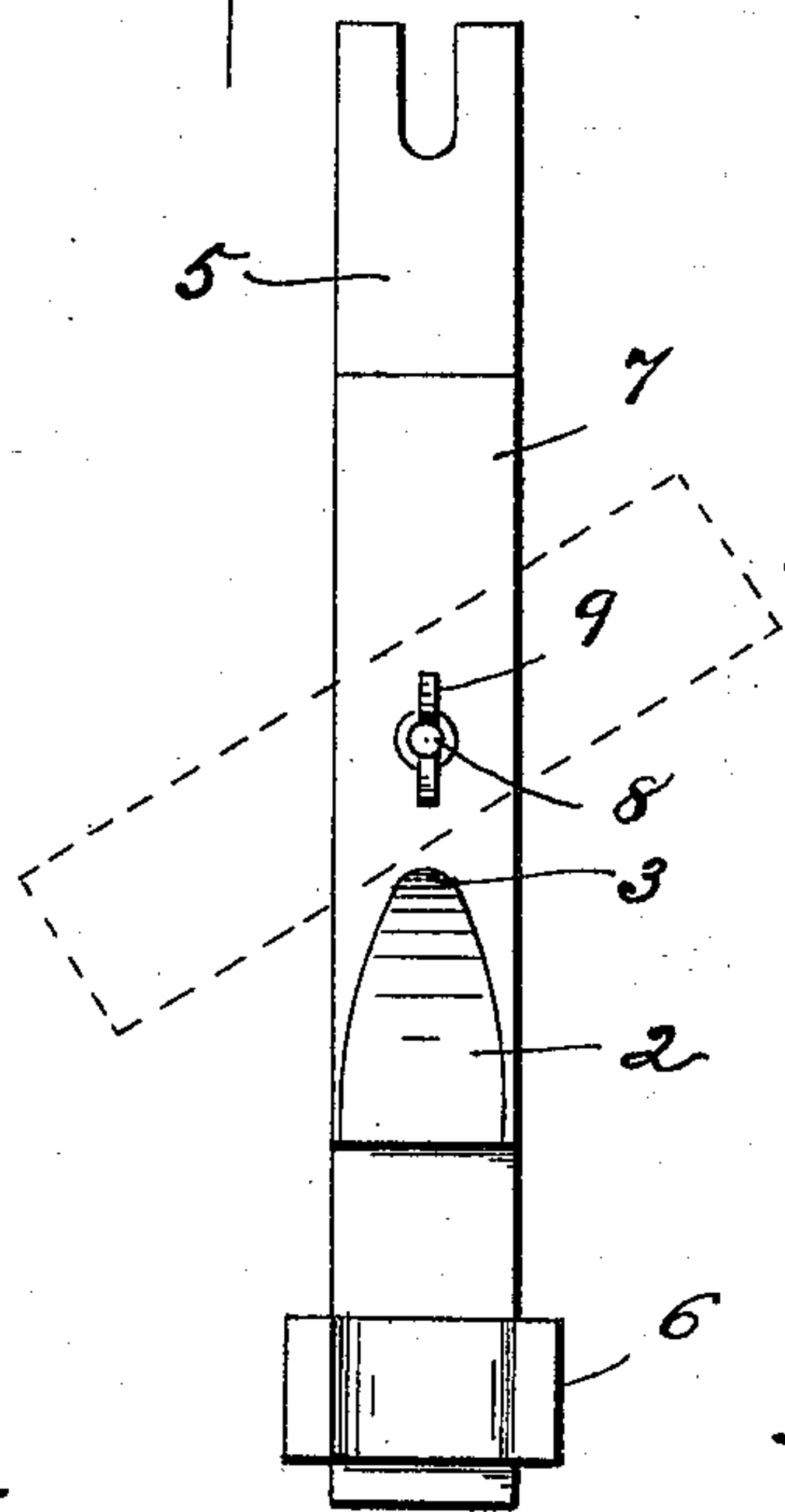


FIG. 4.

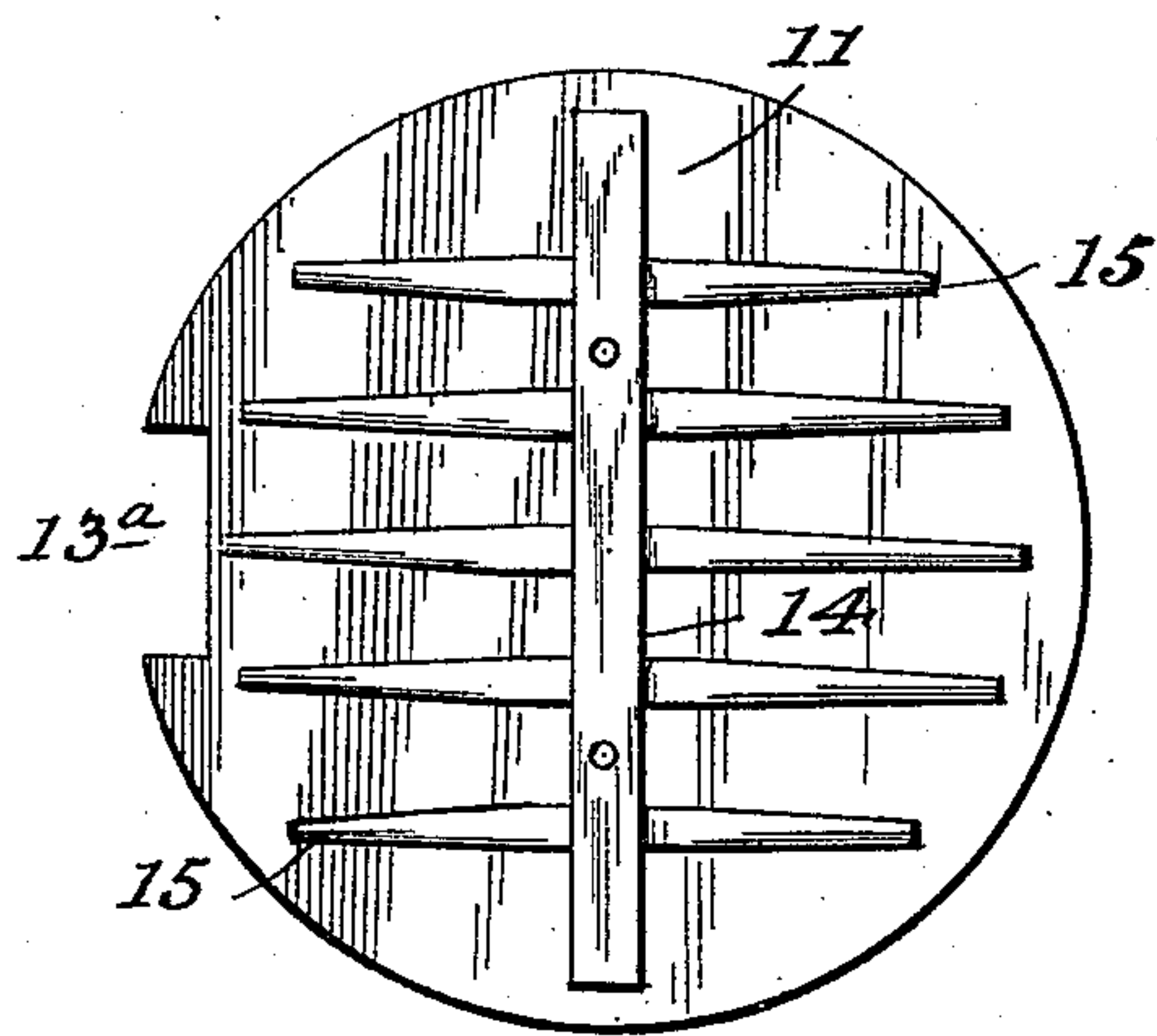
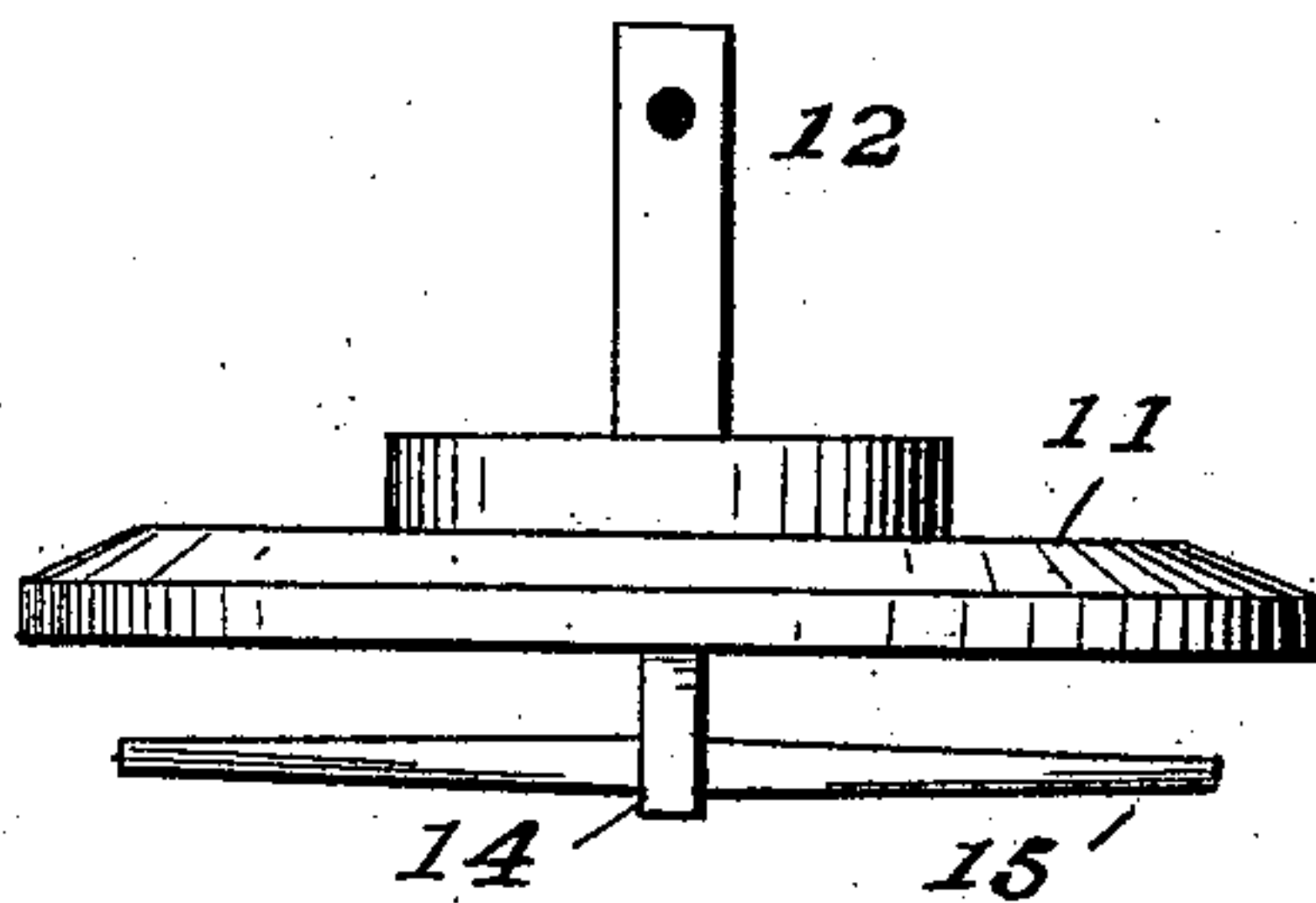


FIG. 5.



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# UNITED STATES PATENT OFFICE.

FRANKLIN L. JOHNSON, OF VALLEY SPRINGS, CALIFORNIA.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 607,619, dated July 19, 1898.

Application filed October 28, 1897. Serial No. 656,658. (No model.)

*To all whom it may concern:*

Be it known that I, FRANKLIN L. JOHNSON, a citizen of the United States, residing at Valley Springs, in the county of Calaveras and State of California, 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 improvements in that class of washing-machines in which the clothes are washed by the repeated sousing action of a vertically-reciprocating plunger; and the object of the invention is to provide a simple, comparatively inexpensive, and an effective machine of this class that may be conveniently attached to and employed in connection with the ordinary form of tub.

To this end the invention consists in certain novel features of construction, combination, and arrangement of parts, which will be hereinafter more fully described, and particularly pointed out in the appended claim.

In the accompanying drawings, illustrating the invention, Figure 1 is a side elevational view of a washing-machine constructed in accordance with my invention. Fig. 2 is a vertical longitudinal section of the same. Fig. 3 is a front view of the standard and clamping-piece detached. Fig. 4 is a bottom plan view of the plunger, and Fig. 5 is a side elevation of the same.

Referring now more particularly to the drawings, wherein like reference numerals and letters designate corresponding parts throughout the several views, 1 represents a washtub or vessel, which may be of any approved form of construction. An ordinary hand-tub may be employed, if desired, and suitable means provided for holding it firmly in position against tilting.

5 represents a vertical standard provided at its lower end with a horizontal bearing block or cleat 6, segmental in shape to conform to the exterior configuration of the tub, against the lower end of which it bears, and 7 represents a clamping-piece, which holds the standard and bearing-block in intimate contact with the tub. This clamping-piece is detachably and pivotally secured to the

standard by a bolt 8, having a wing-nut 9 fitted thereon, and is provided with a reduced clamping-finger 2, which bears against the inner side of the tub, and a shoulder 3, which rests upon the rim 4 of the tub, thereby holding the standard firmly in place. By loosening the wing-nut and swinging the clamping-piece laterally and upwardly the standard and coöperating parts may be quickly and conveniently detached.

10 represents a hand-lever fulcrumed at one end to the upper end of the standard 5, and 11 a plunger to agitate the water in the tub and souse the clothes therein. The plunger is connected with the lever by a rod consisting of two sections 12 and 13, the former rigidly secured to the plunger and the latter pivoted to the section 12 by a bolt *a* and to the lever by a bolt *b*. A recess 13<sup>a</sup> is provided in the edge of the plunger to enable said plunger to clear the clamping-piece 7 in operation.

14 represents a cleat centrally secured to the under side of the plunger 11, and to said cleat are connected a series of transverse pins 15, the purpose of which is to secure the articles to be washed to the plunger, this being accomplished by passing said articles back and forth over said pins and wedging them against the lower face of the plunger.

In operation the plunger is reciprocated vertically by working the lever 10 up and down, whereby the clothes are repeatedly soused in the water and the water driven forcibly through the pores of the fabric, quickly and easily removing the dirt therefrom without the wear and tear thereon incident to the usual methods employed. After the clothes have been washed and allowed to drain the standard may be unclamped from the washtub and, with the plunger and clothes attached thereto, clamped to a rinsing-tub. A similar transfer may be in turn made to a bluing-water tub preparatory to running the clothes through a wringer and hanging them out to dry. Of course it will be understood that the washtub alone may be employed for these successive operations, it being only necessary to detach the tub and empty the dirty water and refill the same with clean water after each operation. My invention provides an apparatus which may be quickly connected with and disconnected from the tub to permit of



this being easily and conveniently accomplished without undue exertion on the part of the operator.

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

A washing-machine comprising the tub 1,  
the vertical standard 5 provided at its lower  
end with the segmental bearing-block 6 rest-  
10 ing against the tub, the clamping-piece 7 detachably and pivotally secured to the standard by the threaded bolt 8 having the wing-nut  
9 fitted thereon, and provided with a reduced  
clamping-finger projecting down into and  
15 bearing against the inner side of the wall of the tub and a shoulder resting upon the rim

of the tub, in combination with the lever 10 fulcrumed at its inner end to the top of the standard, the plunger 11 provided on its under side with the cleat 14 having the trans- 20  
verse pins 5 secured thereto, and the plunger-rod consisting of the section 12 fixed to the plunger and the section 13 pivoted at its lower end to the fixed section by the bolt *a* and at its upper end to the lever by the bolt *b*, sub- 25  
stantially as shown and described.

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

FRANKLIN L. JOHNSON.

Witnesses:

JAMES Q. CLARK,  
J. F. PAULK.