

W. WITT.
 WASHING MACHINE.
 APPLICATION FILED DEC. 14, 1908.

943,855.

Patented Dec. 21, 1909.

FIG. 1

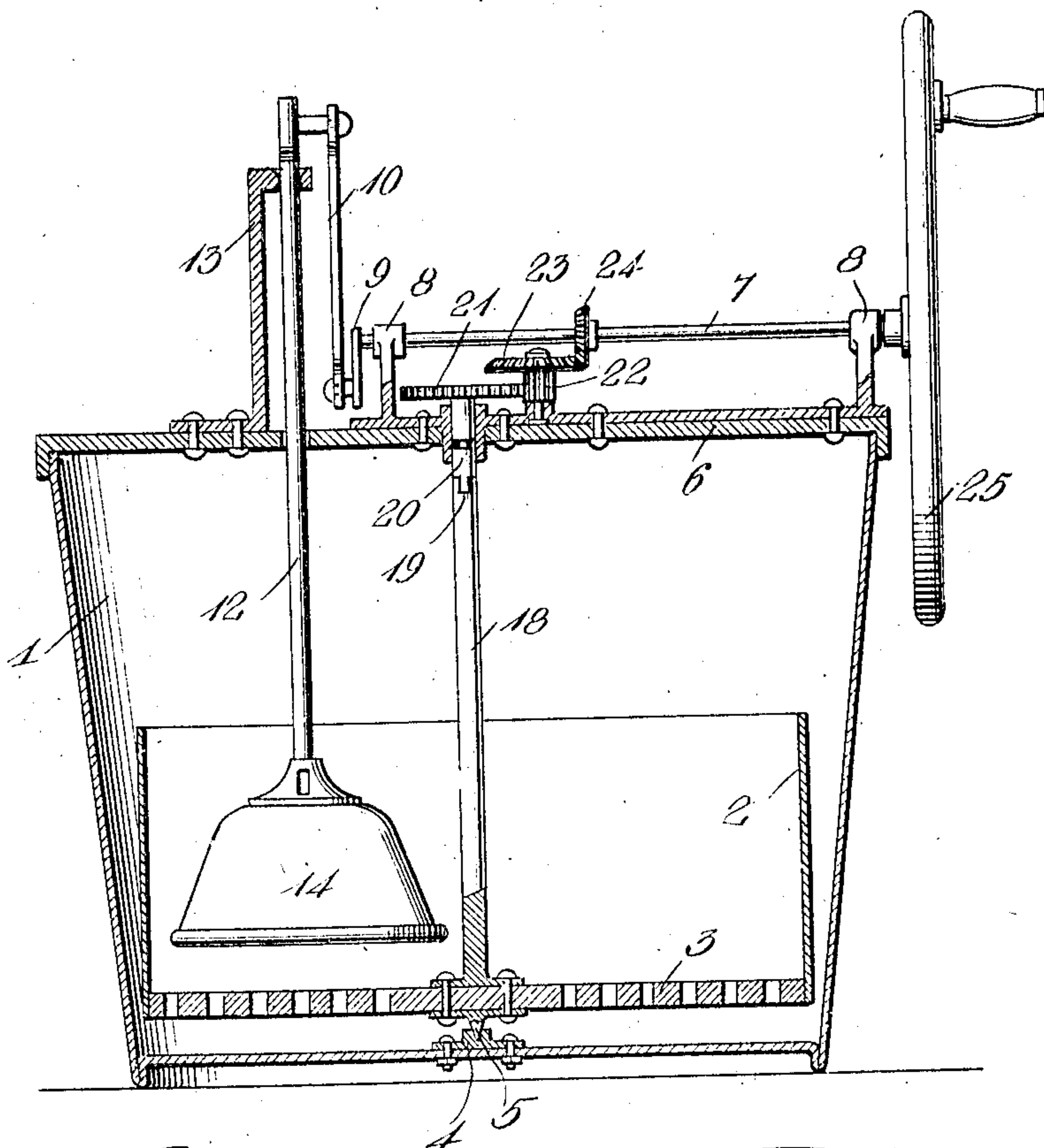


FIG. 2

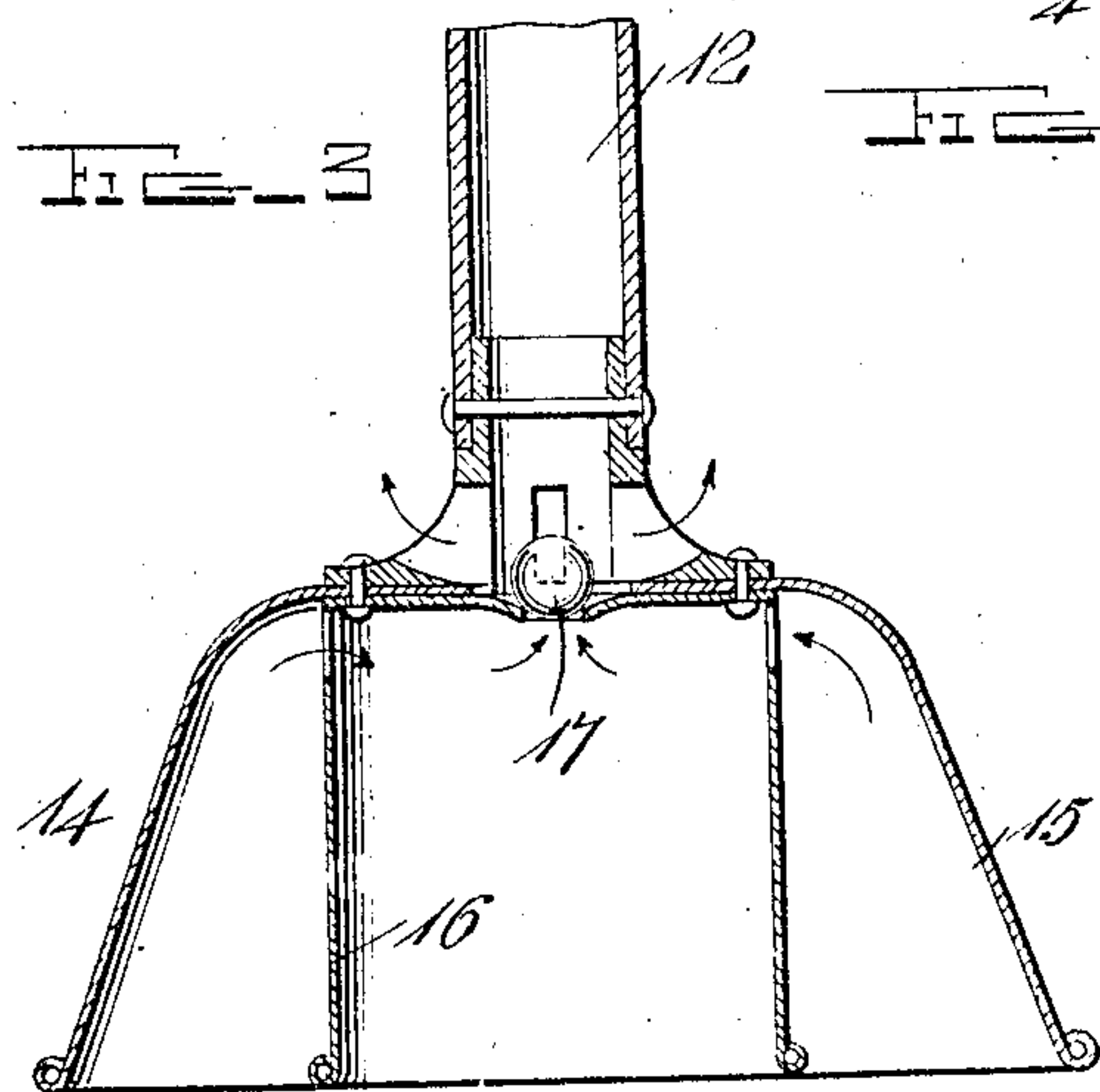
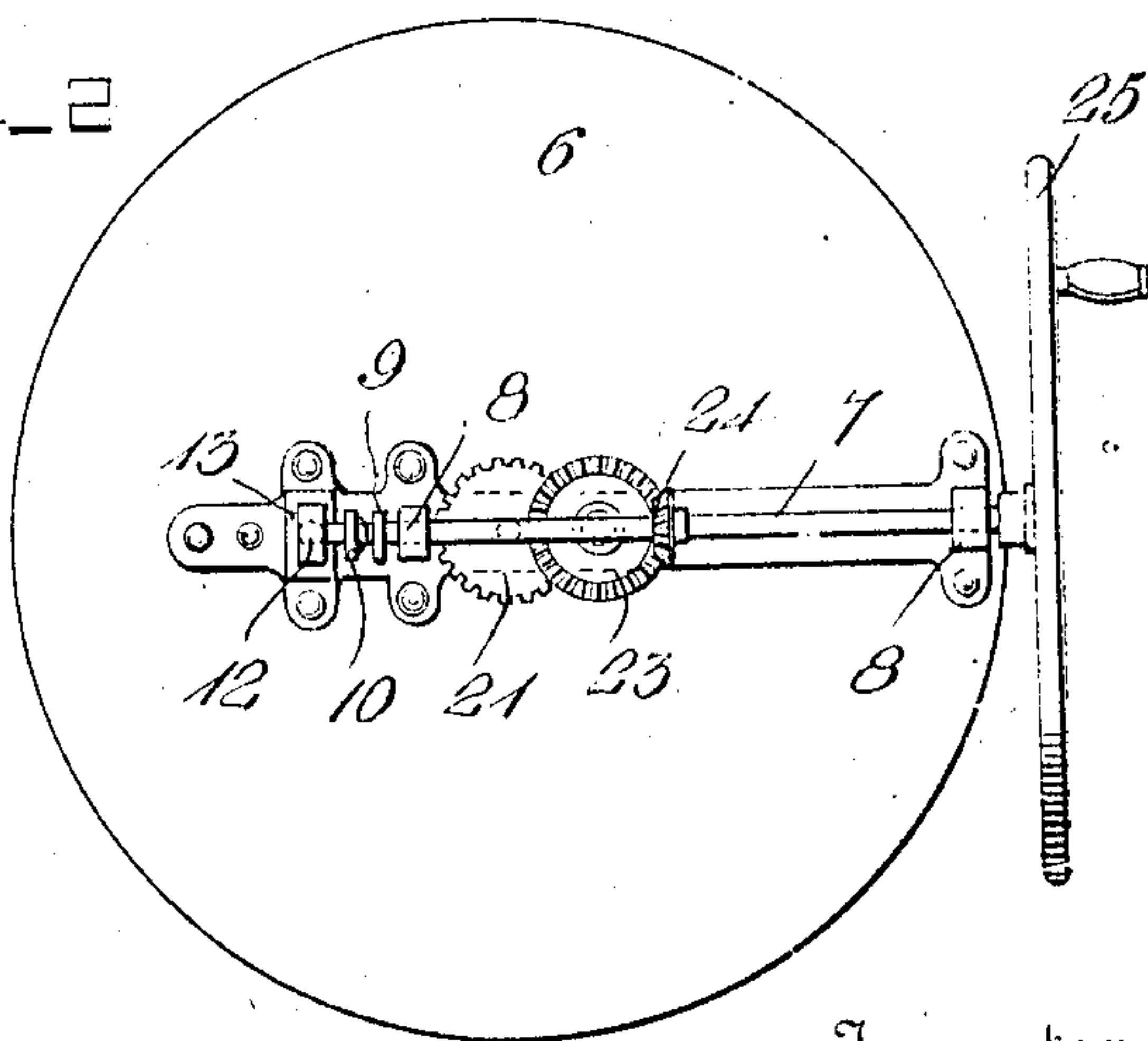


FIG. 3



Witnesses

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WILLIAM WITT, OF RIPON, WISCONSIN.

WASHING-MACHINE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM WITT, a citizen of the United States, residing at Ripon, in the county of Fond du Lac and State of Wisconsin, have invented certain new and useful Improvements in Washing-Machines; and I do 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 washing machines.

The object of the invention is to provide a washing machine having a reciprocating pounder and means whereby the clothes to be washed may be slowly brought beneath the pounder so that all parts of the clothes may be acted on and the wash water thoroughly circulated therethrough.

With this and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings Figure 1 is a vertical sectional view through a washing machine constructed in accordance with the invention. Fig. 2 is a top plan view of the same. Fig. 3 is an enlarged vertical sectional view through the pounder.

In the embodiment of the invention I provide an outer tub 1 in which is revolubly mounted an inner smaller tub 2. The inner tub 2 is provided with a perforated wooden bottom 3 while the sides of the inner tub are preferably formed of galvanized metal. On the bottom of the outer tub 1 is arranged a centrally disposed bearing 4 which is adapted to be engaged by the bearing stud 5 on the lower side of inner tub whereby the latter is adapted to freely rotate in the outer tub and whereby said inner tub is held above the bottom of the outer tub to permit the water in said outer tub to circulate through the perforated bottom of the inner tub. The outer tub is provided with a suitable cover 6 on which is mounted the operating mechanism of the machine. Said mechanism comprising a drive shaft 7 which is revolubly mounted in bearing brackets 8 on the cover 6 and has fixedly mounted on its inner end a short crank arm 9 with which is connected the lower end of a pitman rod 10 the upper end of said pitman rod being

pivotally connected to an operating rod 12 slidably mounted in a guide bracket 13 and passing through a suitable aperture in the cover 6.

On the lower end of the operating rod 12 is a pounder 14, said pounder comprising an outer frusto-conical outer section 15 and an inner cylinder section 16. In the upper portion of the outer section 15 of the pounder is arranged a ball valve 17 whereby a suction action is provided when the pounder is forced downwardly into engagement with the clothes which are placed for washing in the inner tub 2. The suction action of the pounder serves to draw the wash water through the clothes thus thoroughly eliminating the dirt therefrom.

Secured in the center of the inner tub is an upwardly projecting operating shaft 18 in the upper end of which is formed a locking notch 19 with which is adapted to be engaged the squared lower end of a short shaft 20 which is suitably mounted in the cover of the outer tub and has on its upper end a spur gear 21 which is operatively engaged by the spur pinion 22, also mounted in suitable bearings on the cover of the outer tub. The pinion 22 is connected to or forms a part of a beveled gear pinion 23 which is operatively engaged by the beveled gear pinion 24 on the drive shaft 7. By the arrangement of the gears hereinbefore described the inner tub 2 will be slowly revolved within the outer tub to bring the clothes in the inner tub under the pounder. The operating gearing for the inner tub is preferably so arranged that the tub will be revolved once to every twenty-five revolutions of the drive shaft, or, in other words, the pounder will be reciprocated about twenty-five times while the tub is making one revolution.

Any suitable means may be applied to the drive shaft 7 to operate the same, said means being here shown in the form of a crank wheel 25 whereby the parts are manually operated.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advan-

ages of this invention as defined in the appended claim.

Having thus described and ascertained the nature of my invention, what I claim as new and desire to secure by Letters-Patent, is—

10 A washing machine of the class described, comprising an outer vessel, an inner vessel revolubly mounted therein, a vertical operating shaft connected to the inner vessel, a cover for the outer vessel, a stub shaft extending through the cover, a bearing plate on the cover, a gear at the outer end of said shaft, a horizontal drive shaft mounted
15 upon the bearing plate above said gear, a gear connection between said gear and the drive shaft, a vertical plunger extending

through the cover, a guide mounted upon the cover for the plunger, a pounder at the lower end on the plunger, a crank connection between the plunger and drive shaft for reciprocating the pounder, and a separable connection between the stub shaft and operating shaft, whereby the cover and the operating mechanism for the pounder and operating shaft may be removed without removing the inner vessel. 20 25

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM WITT.

Witnesses:

H. M. OLDER,
HERBERT HABEL.