

(No Model.)

3 Sheets—Sheet 1.

K. F. POLK.
WASHING MACHINE.

No. 449,700.

Patented Apr. 7, 1891.

FIG. 1.

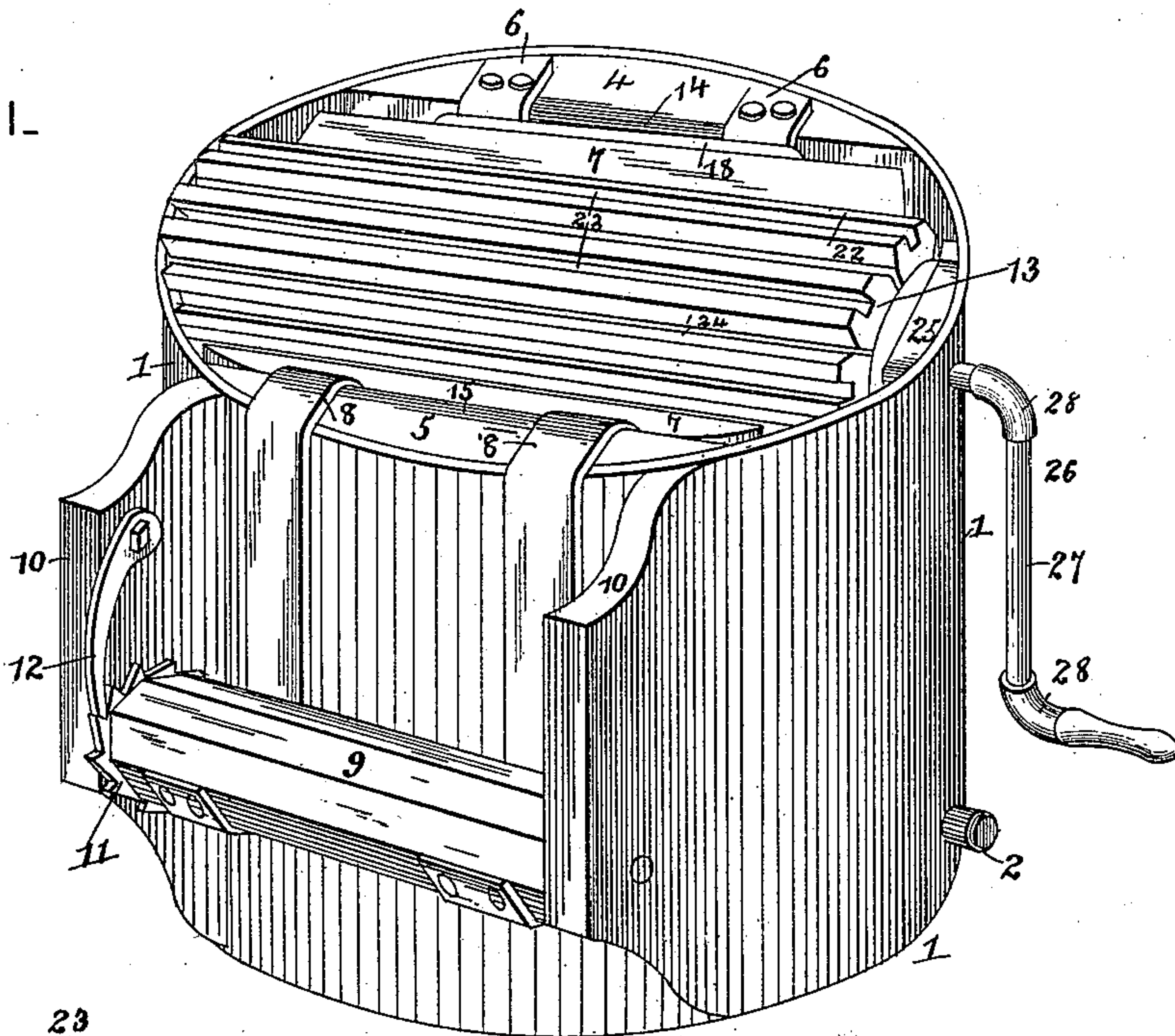
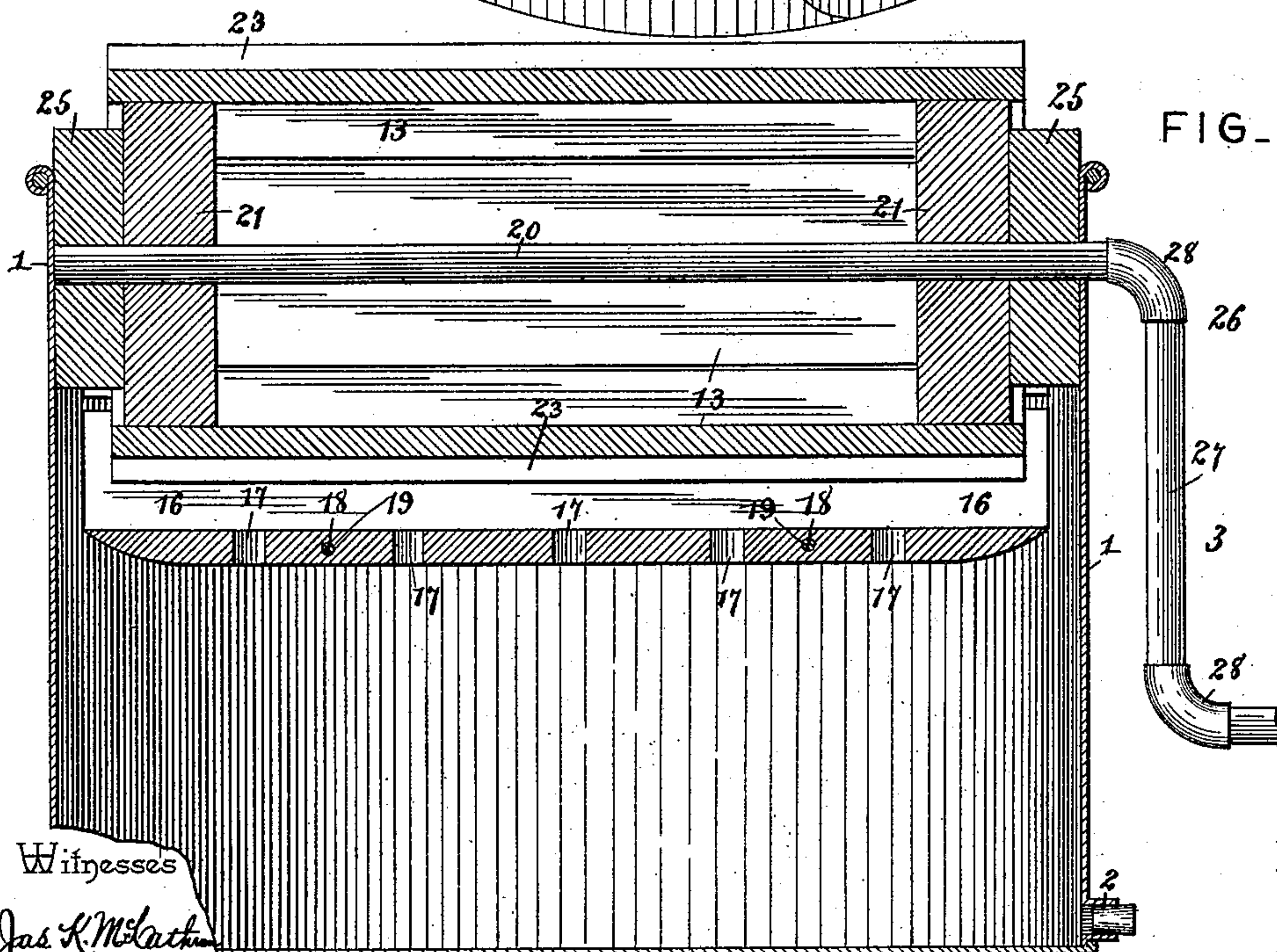


FIG. 2.



Witnesses

Jas. K. McArthur

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S. P. Riley

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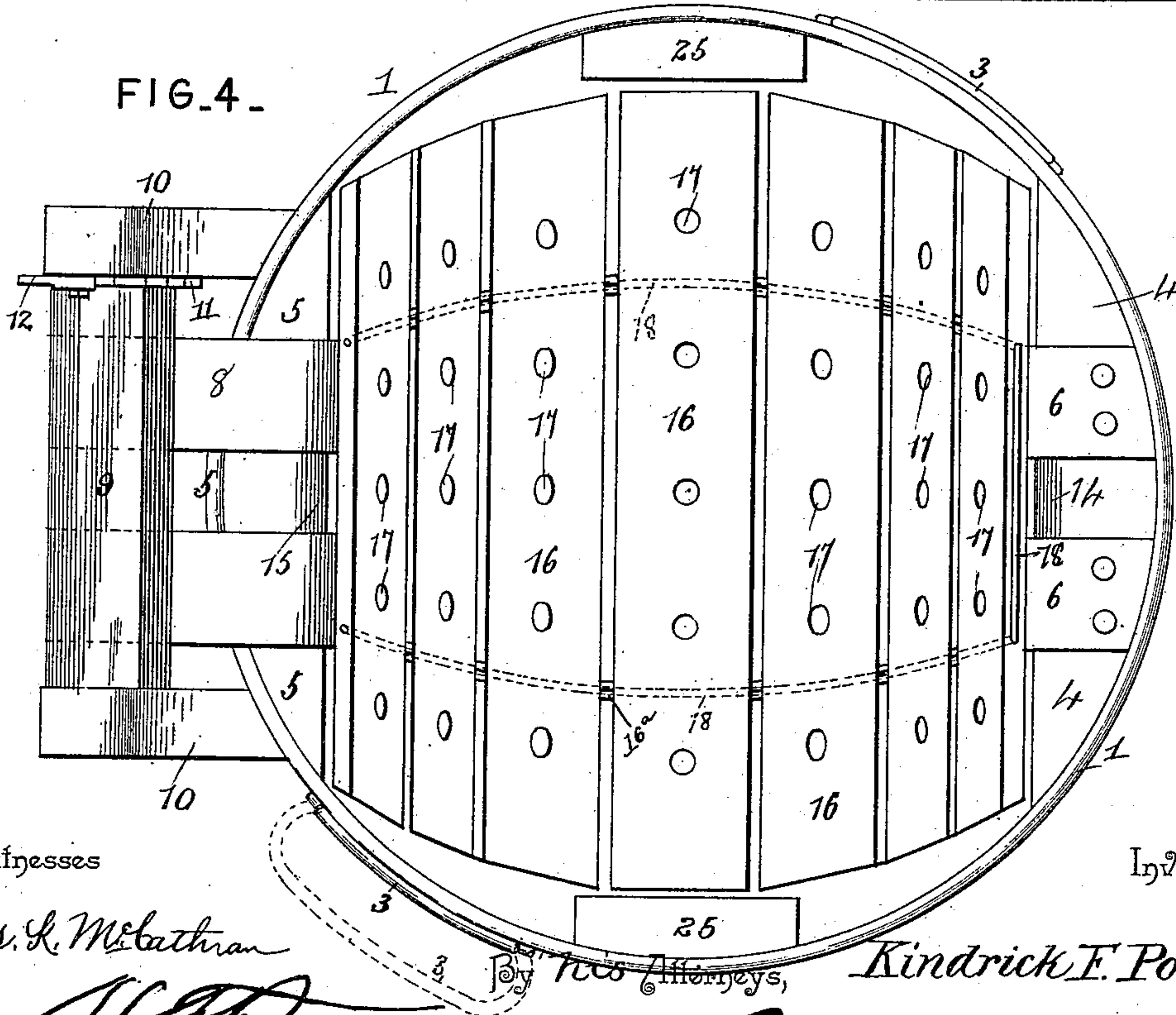
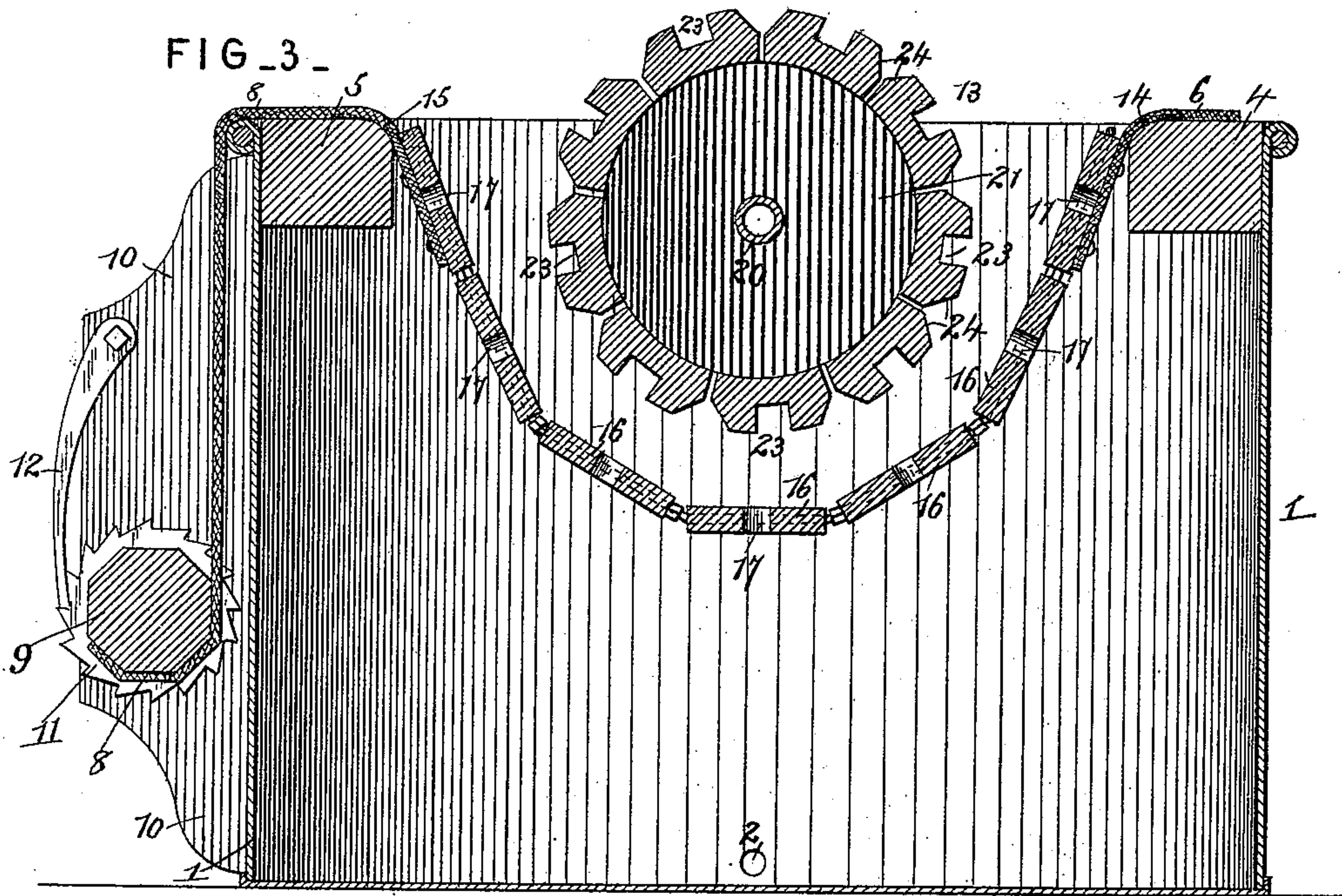
(No Model.)

3 Sheets—Sheet 2.

K. F. POLK.
WASHING MACHINE.

No. 449,700.

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Witnesses

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(No Model.)

3 Sheets—Sheet 3.

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WASHING MACHINE.

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FIG-5-

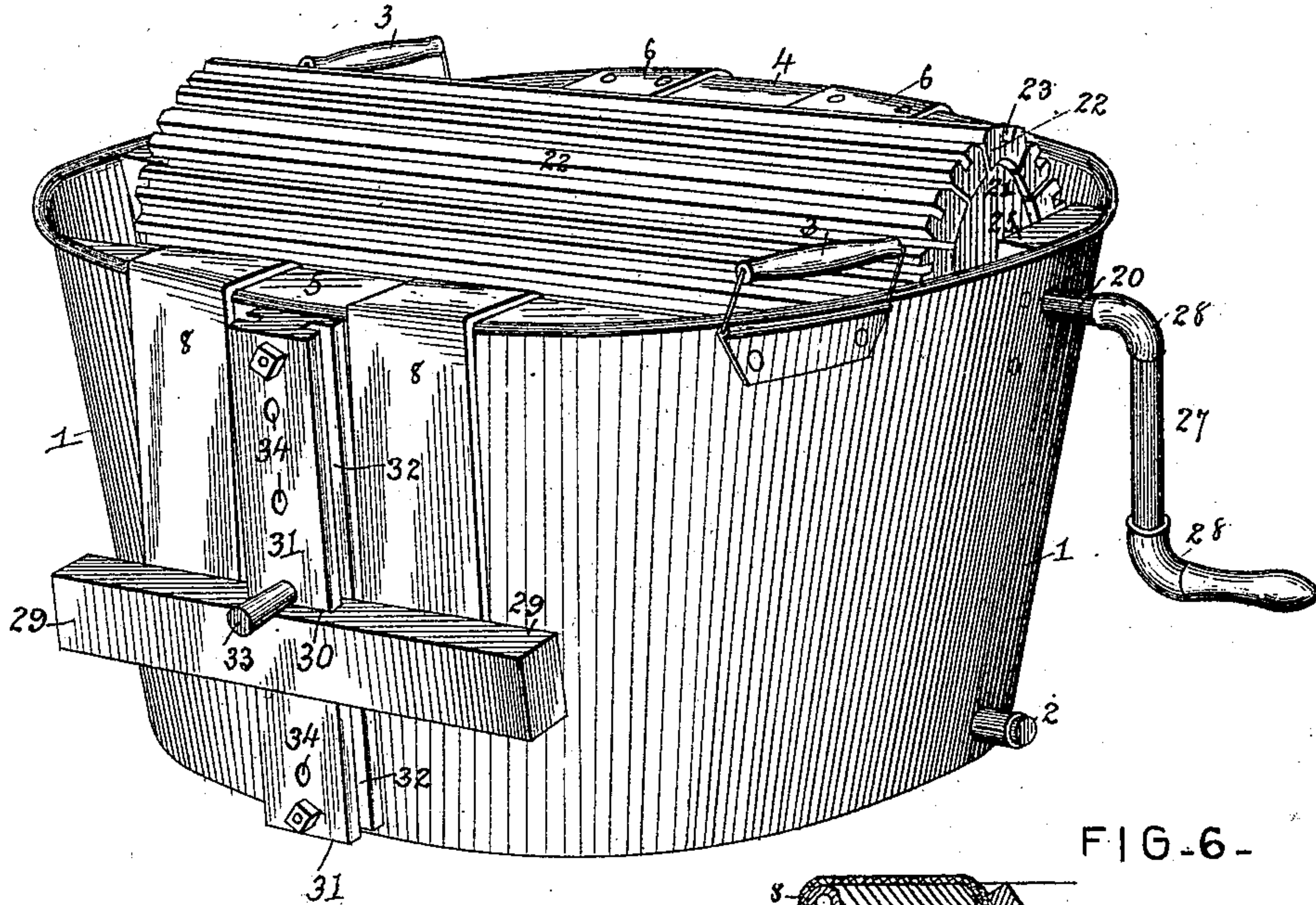


FIG-6-

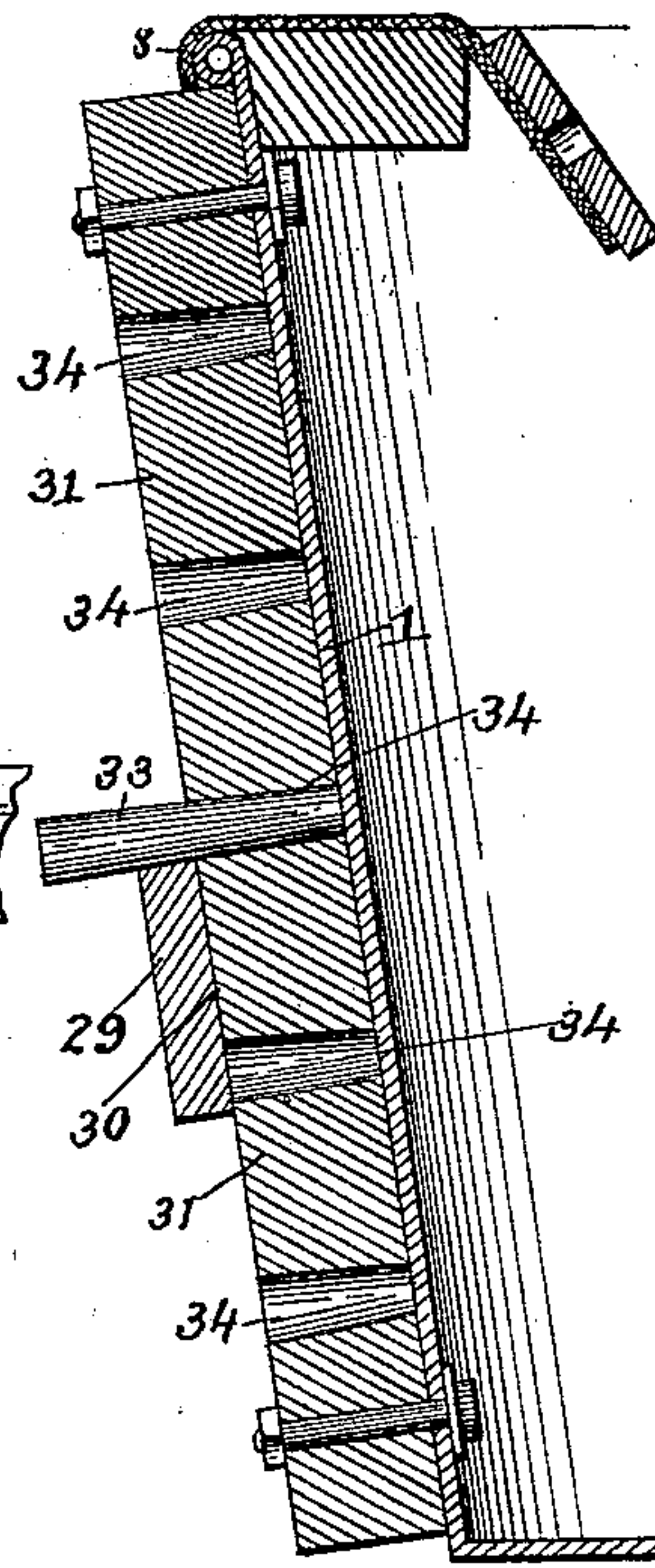
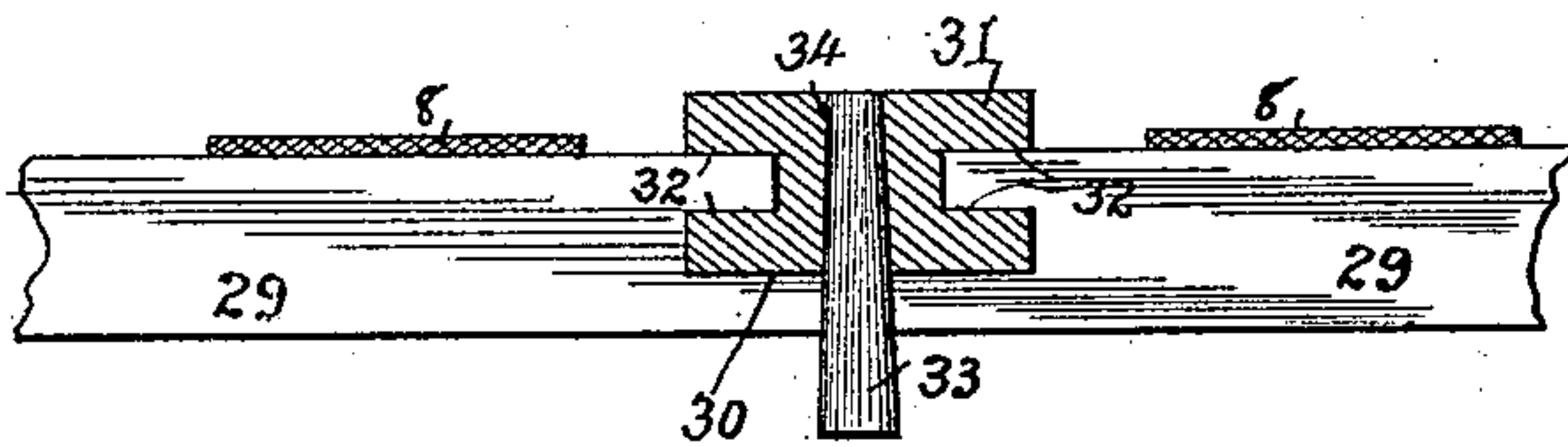


FIG-7-



Witnesses

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UNITED STATES PATENT OFFICE.

KINDRICK FORD POLK, OF CLEBURNE, TEXAS.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 449,700, dated April 7, 1891.

Application filed December 3, 1890. Serial No. 373,460. (No model.)

To all whom it may concern:

Be it known that I, KINDRICK FORD POLK, a citizen of the United States, residing at Cleburne, in the county of Johnson and State of Texas, have invented a new and useful Washing-Machine, of which the following is a specification.

The invention relates to improvements in washing-machines.

10 The object of the present invention is to provide a simple and comparatively inexpensive washing-machine in which the pressure on the clothes can be regulated and in which clothes will be thoroughly cleaned without injury to them.

15 The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of the washing-machine constructed in accordance with this invention. Fig. 2 is a central vertical sectional view of the same. 25 Fig. 3 is a similar view taken at right angles to Fig. 2. Fig. 4 is a plan view, the rubbing-cylinder being removed. Fig. 5 is a perspective view of a modification. Fig. 6 is a vertical section. Fig. 7 is a horizontal section.

30 Referring to the accompanying drawings, 1 designates the washing-machine body, which is preferably formed by a metallic wash-tub provided near its bottom with a drain-spout 2 and having near its upper edge suitable handles 3.

35 The washing-machine body 1 has secured to its inner face segmental bars 4 and 5, which are arranged at the upper edge of the body at diametrically-opposite points and have their curved edges arranged adjacent to and conforming to the configuration of the curved side of the body, and secured to the upper face of the bar 4 are flexible pieces 6, of webbing or similar material, which secure one 40 end of a stationary adjustable rubbing-board 7 to the body. The other end of the stationary rubbing-board 7 is adjustably connected with the washing-machine body by flexible pieces 8, of webbing or similar material, each 45 of which has one end attached to the stationary rubbing-board and the other end secured to a drum 9, journaled in parallel vertically-

disposed pieces 10, secured to the outer face of the washing-machine body. The drum 9 carries a ratchet-wheel 11, which is engaged 55 by a pawl 12, pivoted to the adjacent piece 10 and adapted to be secured to the stationary rubbing-board at the desired point of adjustment to regulate the pressure on clothes which are passed over the stationary rubbing-board and between the latter and the rubbing-cylinder 13, and to prevent the webbing being worn the edges 14 and 15 of the segmental bars 4 and 5 are rounded. The stationary rubbing-board is composed of trans- 60 verse slats 16, which are spaced by blocks 16^a and are provided with perforations 17 to permit free access of the water with which the washing-machine body is partially filled to the clothes being washed, and the said slats 70 are secured together by a wire 18, which passes through perforations 19 of the slats, and being constructed of spring metal causes the slats to readily spring in place and assume their proper positions during adjustment. 75

The rubbing-cylinder, which acts in conjunction with the stationary rubbing-board, is mounted on a tubular shaft 20, and consists of end disks 21 and bars 22, having their ends secured to the peripheries of the end 80 disks and being curved transversely to conform to the same and being provided on its outer face with a centrally-arranged longitudinal groove 23, which forms longitudinal ribs 24 at the sides of the bars. The tubular 85 shaft 20 is journaled in suitable bearings of blocks 25, which are secured at opposite sides of the washing-machine body, at the upper edges thereof, and the said tubular shaft has one end threaded and provided with a crank- 90 handle 26, composed of straight tubular sections 27 and elbow-couplings 28.

During the operation of washing the body or tub is partially filled with boiling water, and the clothes are passed under the rubbing-cylinder and between the same and the stationary rubber, and the flexible pieces 8 95 are wound upon the drum 9 to cause the desired pressure on the clothes, and a suitable wringer may be secured to the sides of the body to receive the clothes as they come from out of the rubbing-cylinder. 100

In Fig. 5 of the drawings is illustrated a modification of the invention, in which the

flexible straps attached to the stationary rubber are connected with an adjustable hand-bar 29, which is provided in its inner face at a point intermediate its ends with a transverse recess 30, adapted to engage a grooved bar 31. The bar 31 is secured to the outer face of the body and is provided in its side edges with longitudinal grooves 32, which are engaged by the recessed hand-bar 29, and the latter is adapted to be adjusted vertically along the grooved bar to vary the tension of the stationary rubber. The bar 29 is held at any point of adjustment by a removable pin 33, which engages a vertical series of openings 34, extending along the bar 31.

From the foregoing description and the accompanying drawings the construction, operation, and advantages of the invention will readily be understood.

What I claim is—

1. In a washing-machine, the combination of the body provided with the segmental bars 4 and 5, having their edges 14 and 15 rounded, the vertical pieces 10, secured to the outer face of the body, the drum journaled in said pieces, the pawl and ratchet, the stationary adjustable rubbing-board composed of flexibly-connected perforated slats, the flexible pieces 6, connecting one end of the station-

ary rubbing-board with the bar 4, the flexible pieces 8, connecting the other end of the rubbing-board with the drum, and the rotary rubbing-cylinder, substantially as described.

2. In a washing-machine, the rotary rubbing-cylinder, combined with the body, the segmental bars 4 and 5, secured to opposite sides of the body and provided with rounded edges, the stationary adjustable rubbing-board composed of the transverse perforated slats 16, having transverse perforations 19, the spring-wires 18, passing through the perforations and thereby connecting the slats together, and the spacing-blocks arranged on the wires 18 and holding the slats at intervals apart, the flexible pieces 6 and 8, secured to opposite ends of the rubbing-board, the pieces 6 being secured rigidly to the board 4 and the pieces 8 passing over the board 5, and a tightener for adjusting the free end of the pieces 8, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

KINDRICK FORD POLK.

Witnesses:

T. W. FLUMIKEN,
S. F. RAY.