

H. GOODHUE.
CAN WASHING MACHINE.
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963,219.

Patented July 5, 1910.

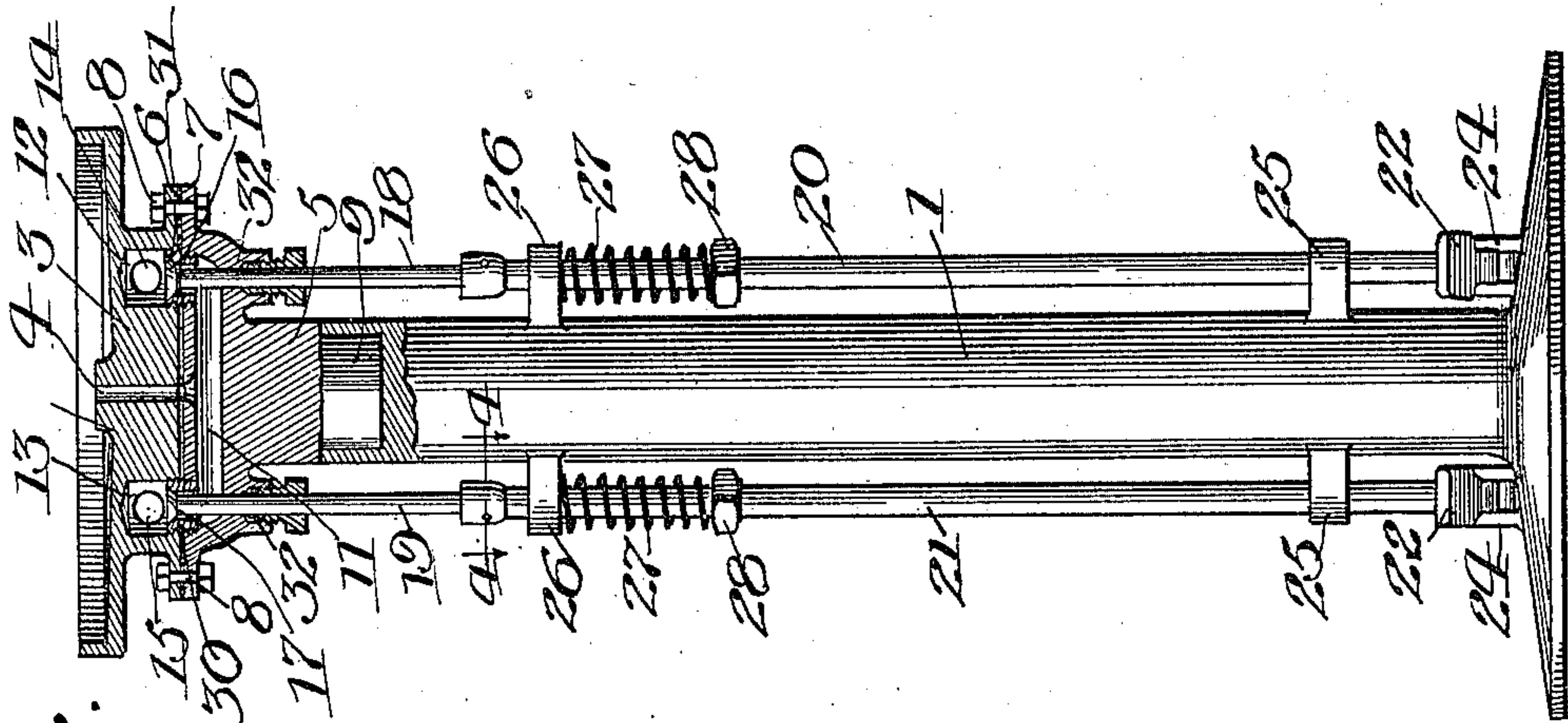


Fig. 2.

Fig. 4.



Fig. 5.

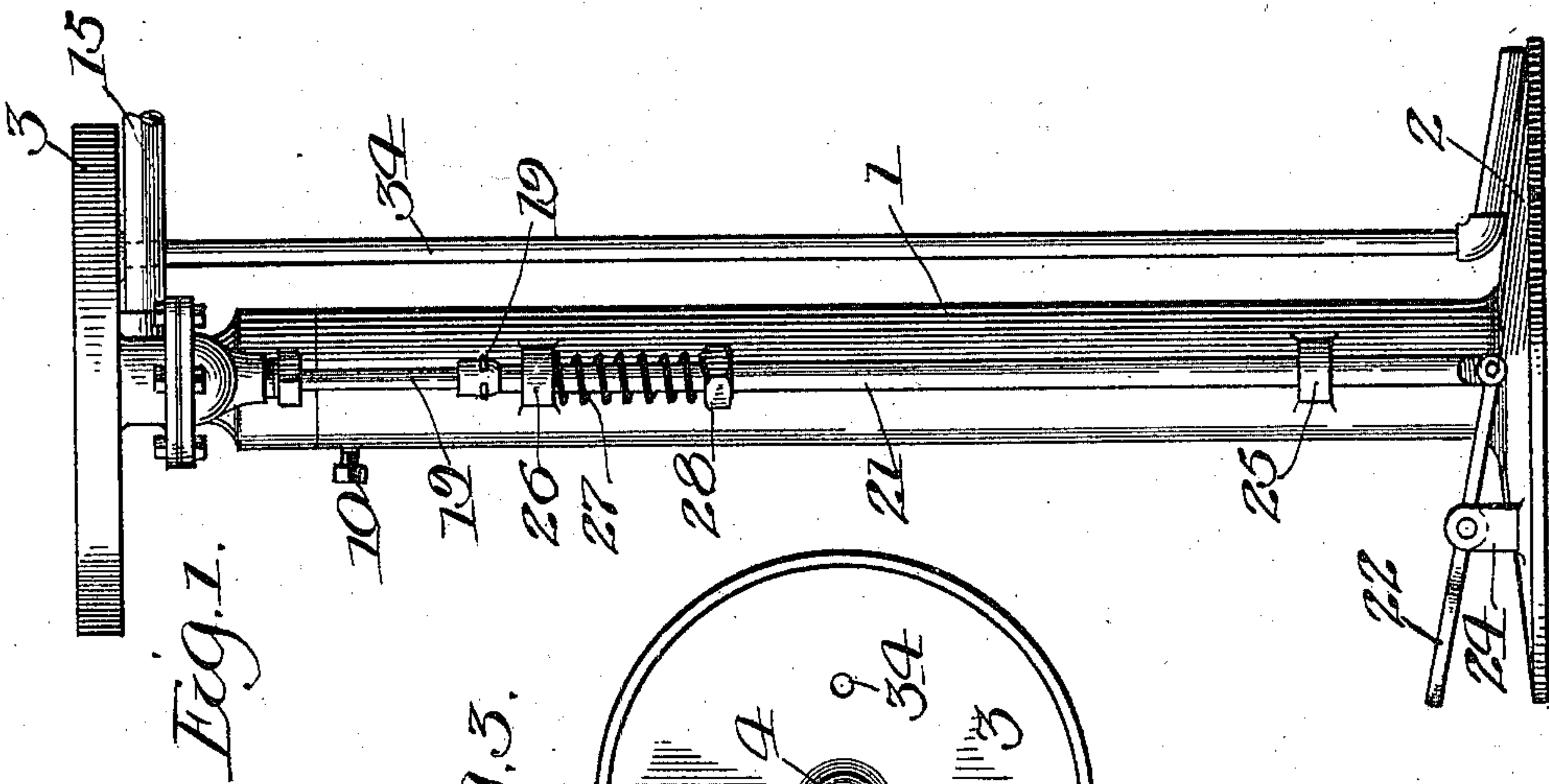
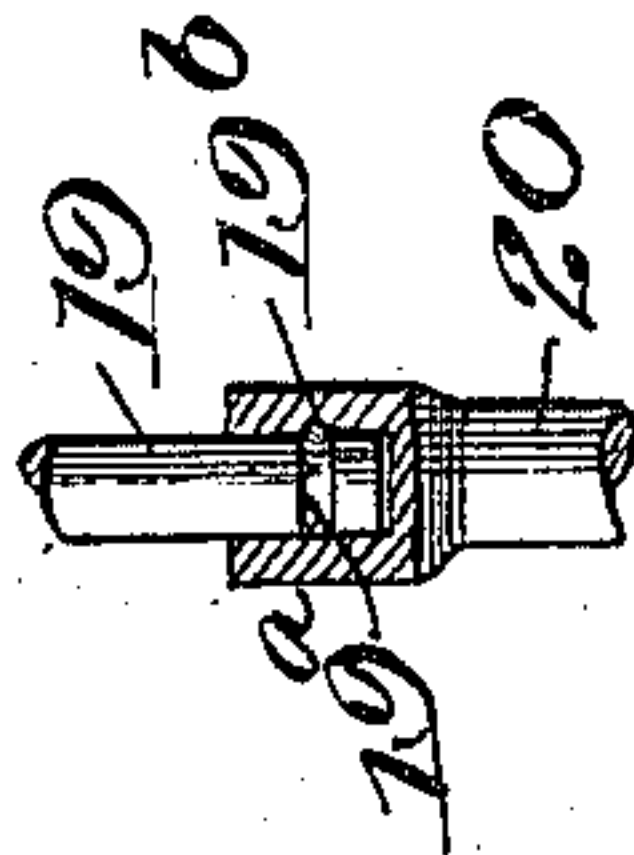
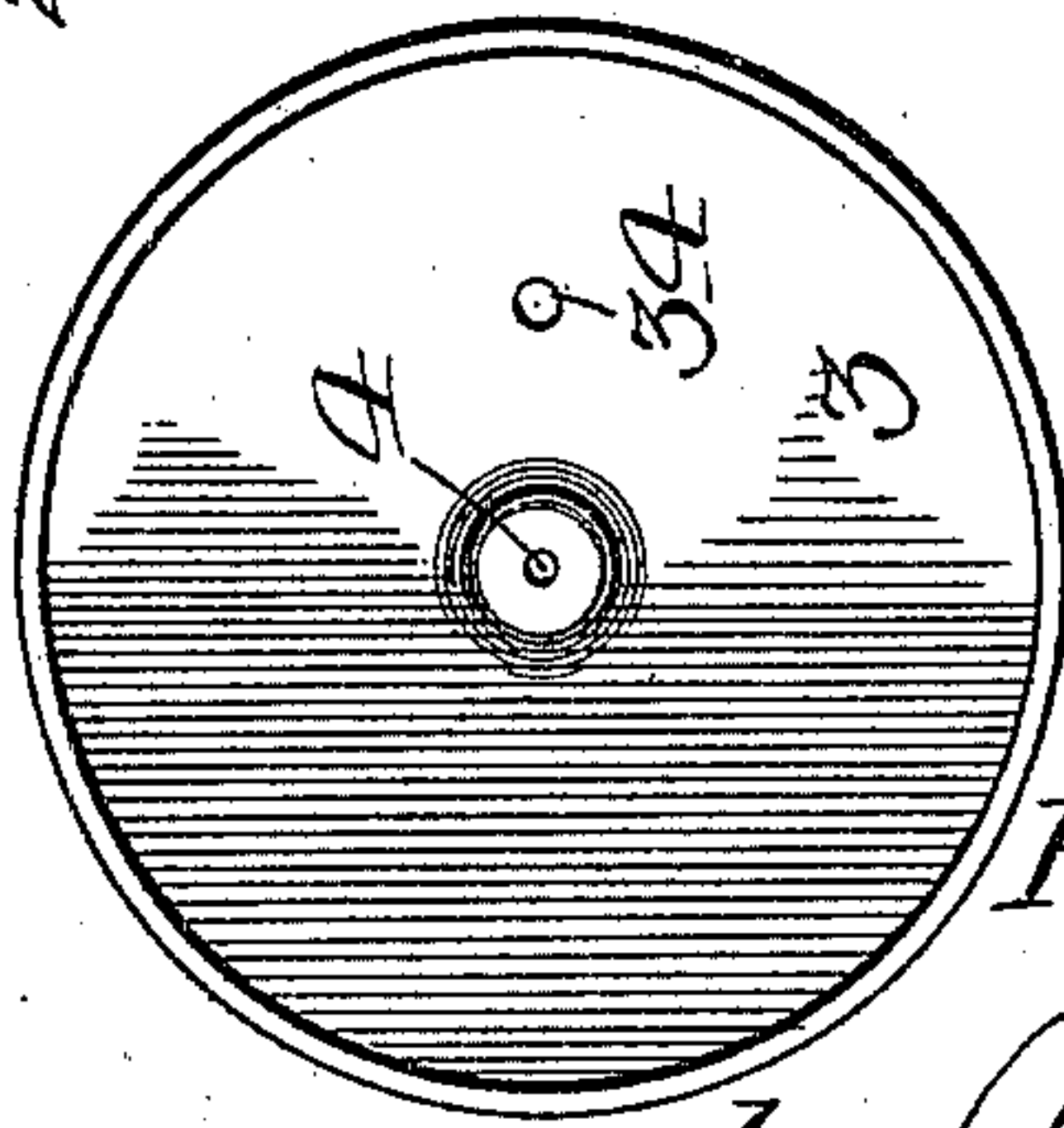


Fig. 1.

Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

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CAN-WASHING MACHINE.

963,219.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HOMER GOODHUE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Can-Washing Machines, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to machines for washing cans or the like, and its object is to provide a simple, practical, inexpensive, efficient and easily operated machine of the class specified.

In accordance with the arrangement herein set forth for carrying out my invention, I provide a support for the can or other article to be washed, and provide the support with an inlet passage through which the water or steam, or both, can be injected into the can, and I provide also two separate valve mechanisms for controlling the flow of water and steam into said inlet. Each of these valve mechanisms is conveniently operated by a foot-treadle or similar arrangement, so that the device can be easily operated by a party who can place the can upon the support and then operate one treadle or the other, or both, to introduce steam or hot-water, or both, as desired.

In the accompanying drawings Figure 1 is a side elevation of a can washing machine embodying my invention; Fig. 2 is a front elevation of the same with the upper part of the machine shown partly in section; Fig. 3 is a plan view of the machine, and Figs. 4 and 5 are respectively a cross-section on line 4—4 in Fig. 2 and a longitudinal section of the same part of the mechanism.

The machine which I have shown for carrying out my invention comprises a stand or upright support 1, having a suitable flat base 2, and having at its upper end a can support 3. The latter is provided with a central aperture or duct 4, which forms an inlet or jet for the steam or water which is to wash the can. This support 3 is detachably mounted upon a head 5, a convenient arrangement being to provide both the support 3 and head 5 with flanges 6 and

7 respectively, which can be secured together by bolts 8—8. The head 5 is provided with a projection 9, which fits into a socket formed at the upper end of the standard 1, and is secured therein by a bolt 10. The head 5 is provided with a cross-duct 11, which communicates at its middle point with the inlet 4, and which has its ends in communication with valve chambers 12 and 13, which latter communicate with steam and water pipes 14 and 15 respectively.

Valves 16 and 17 are mounted upon valve spindles 18 and 19 respectively, and the latter connect respectively with rods 20 and 21, which extend down to the base of the standard 1, and are connected with foot-treadles 22 and 23 respectively. The treadles are pivoted upon supports 24—24, and the rods 20 and 21 are supported and guided by lugs 25—25 and 26—26 conveniently cast on the standard 1. Springs 27—27 are interposed between the lugs 26—26 and adjustable nuts 28—28 on the rods 20 and 21, so as to always hold the rods 20 and 21 in their lowermost positions.

As a matter of particular and specific construction, arrangement is made to permit the rotation of the valve spindles 18 and 19 whenever desired to remove grit or dirt from the valve seats for the valves 16 and 17. This arrangement is shown in Figs. 4 and 5. The valve spindle 19 is fitted into a socket at the upper end of the valve rod 21, and said spindle is provided with an annular groove 19^a, adapted to receive loosely a pin 19^b, which latter is passed through and fitted tightly in the said socket. Thus the valve spindle 19 is held against longitudinal movement, but is permitted to rotate as desired.

The valve seats 30 and 31 for the valves 16 and 17 are desirably made removable, and screwed into the upper part of the head 5, by which arrangement these seats can be removed and replaced at will. Stuffing boxes 32—32 are desirably provided on the head 5 for the valve spindles 18 and 19.

It will be seen that the valves operate in vertical position, and also that the pressure of the steam and hot water comes upon the valves and not upon the stuffing boxes, both of which features are highly advantageous.

Thus it will be seen that to operate the

device the can to be washed is put upon the support 3, and then one or the other, or both, of the foot-treadles 22—23 is, or are, depressed, so as to cause the admission of steam or hot-water, or both, into the duct 11, and then into the supply passage 4, so that the can may be washed and rinsed as desired. A drain pipe 34 extends down from the support 3.

It will be understood that changes and modifications can be made without departing from the spirit of the invention.

What I claim is:

1. A device of the class specified comprising a can support having a pedestal having its upper portion provided with a cross-duct whose ends are extended up and terminated in the top face of the pedestal, there being also a discharge aperture or passage extending from said cross-duct to the top face of said pedestal, a top detachably secured to the top of said pedestal and resting upon the top face thereof, said top being provided with a can-supporting surface, and having valve chambers communicating with the terminals of said cross-duct, and also having a discharge orifice communicating with the discharge passage in the top of said pedestal, and valves for controlling communication between the ends of said cross-duct and said valve chambers, said valves being carried by the pedestal, whereby they can be mounted and arranged in position with the top off, and the top then put in place, and means for actuating said valves.

2. A device of the class specified comprising a can support having a pedestal having its upper portion provided with a cross-duct whose ends are extended up and terminated in the top face of the pedestal, there being also a discharge aperture or passage extending from said cross-duct to the top face of said pedestal, a top detachably secured to the top of said pedestal and resting upon the top face thereof, said top being provided with a can-supporting surface, and having valve chambers communicating with the terminals of said cross-duct, and also having a discharge orifice communicating with the discharge passage in the top of said pedestal, and valves for controlling communication between the ends of said cross-duct and said valve chambers, said valves being located at the upper ends of the valve rods mounted in said pedestal and extending down from the upper portion thereof, and means for actuating said valve rods.

3. A device of the class specified comprising a can support having a pedestal having its upper portion provided with a cross-duct whose ends are extended up and terminated in the top face of the pedestal, there being also a discharge aperture or pas-

sage extending from said cross-duct to the top face of said pedestal, a top detachably secured to the top of said pedestal and resting upon the top face thereof, said top being provided with a can-supporting surface, and having valve chambers communicating with the terminals of said cross-duct, and also having a discharge orifice communicating with the discharge passage in the top of the pedestal, and valves for controlling communication between the ends of said cross-duct and said valve chambers, means for actuating said valves, and valve seats detachably mounted in the top of the pedestal.

4. A device of the class specified, comprising a standard or upright, a head mounted upon said standard, a support for the article to be washed mounted upon said head, the head being provided with a transverse duct 11, and the support being provided with a supply passage 4 communicating with the transverse duct 11, and also with valve chambers 12 and 13 at ends of the duct 11, valves 16 and 17 seated in the valve chambers 12 and 13 and mounted upon valve spindles 18 and 19, valve rods 20 and 21 mounted in lugs or guides 25—26 on the standard 1, said valve rods being connected with the valve spindles 18 and 19, springs 27—27 inclosing the valve rods 20—21, and arranged to hold the latter in position to maintain the valve closed, and foot-treadles 22—23 pivotally supported on lugs 24—24 and pivotally connected with the valve rods 20 and 21.

5. A device of the class specified, comprising a pedestal or support 1, provided at its upper end with a head 3 forming a can support, the latter having a centrally located discharge orifice 4, a cross duct 11, communicating with said discharge orifice and extending to opposite sides of the support, in which are located valve chambers 12 and 13, to which are extended inlets 14 and 15, rods 18, 19, provided with valves 16 and 17, located at the bottom of said valve chambers and controlling the openings from the same into said cross duct, rods 20, 21, connected with said valve rods and extending down substantially to the base of said standard 1, and foot levers 22, 22, pivoted to the base of said standard, and connected with the rods 20, 21.

6. A device of the class specified, comprising the base 1, having a head 3 detachably secured to the base 1, the base having a transverse duct 11, and the head having valve chambers 12 and 13, communicating with the ends of the transverse duct 11 in the base, and the head also having a discharge orifice 4, extending down to and communicating with said duct 11, valve seats

screw-threaded into the top of the base 1
at the ends of the duct 11, valve rods ex-
tending up through the top of the base 1,
and resting upon said valve seats, and oper-
5 ating rods and foot treadles for said valve
rods.

In witness whereof, I hereunto subscribe

my name this 12th day of November A. D.,
1908.

HOMER GOODHUE.

Witnesses:

E. B. CAMPBELL,
O. M. NENNICH.