

(No Model.)

2 Sheets—Sheet 1.

J. A. GARRETT.
WASHING MACHINE.

No. 504,418.

Patented Sept. 5, 1893.

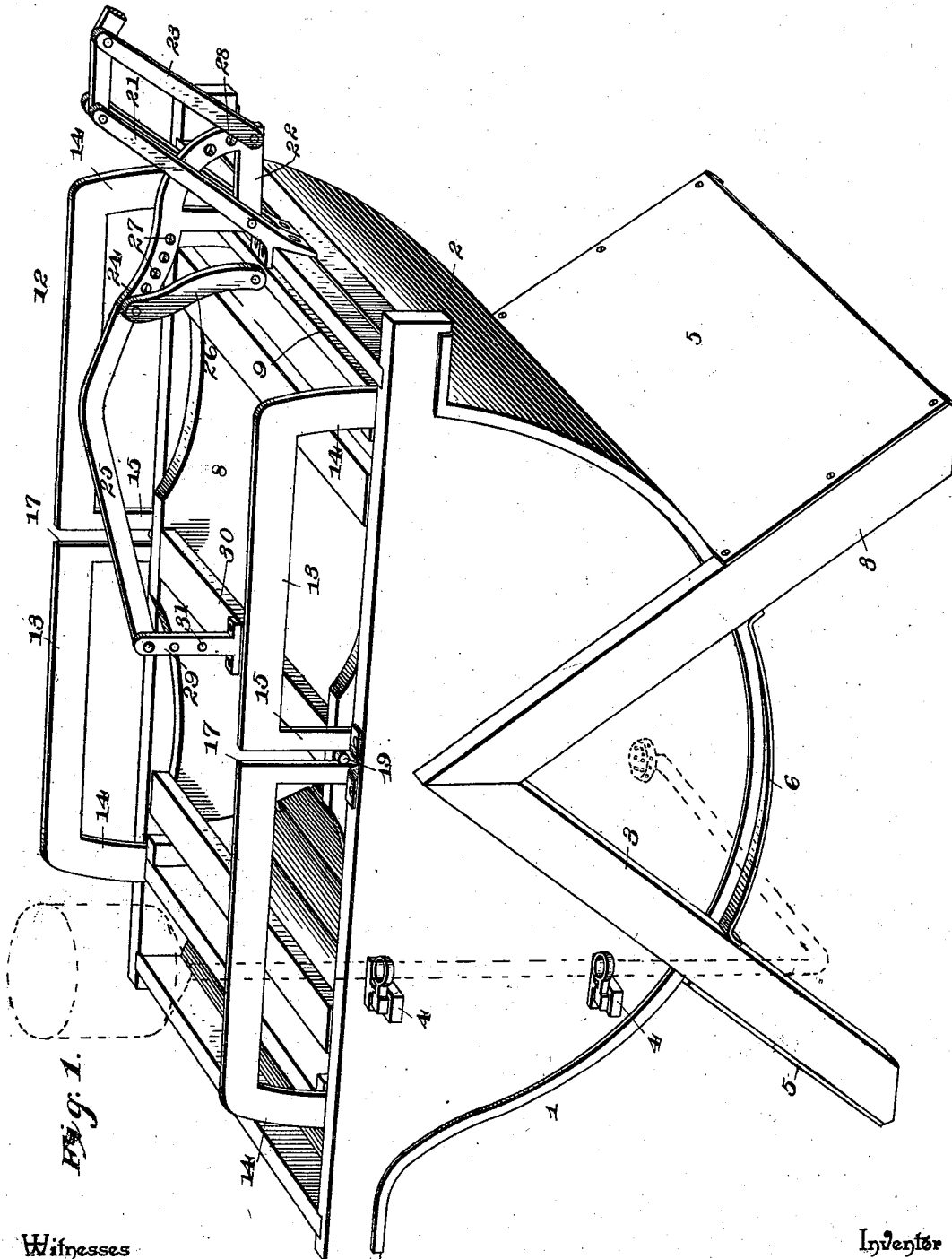


Fig. 1.

Witnesses

Chas. Ford
Wm. Riley

Inventor

John A. Garrett,

By his Attorneys,

C. A. Snow & Co.

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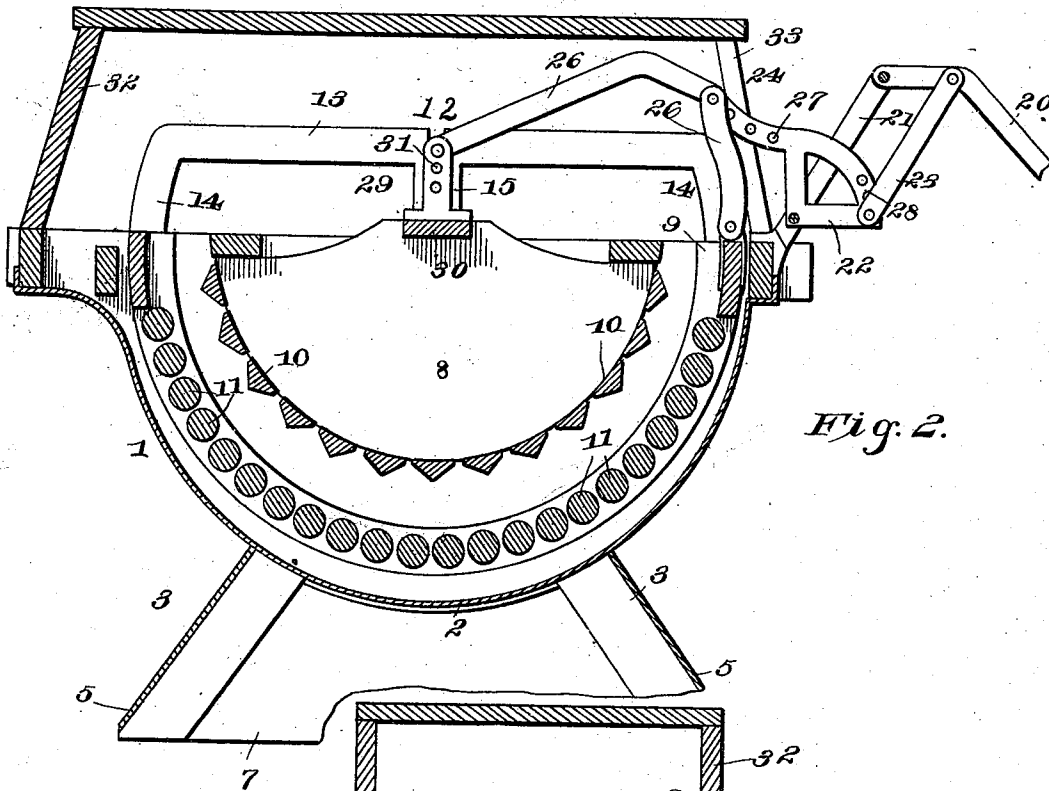


Fig. 2.

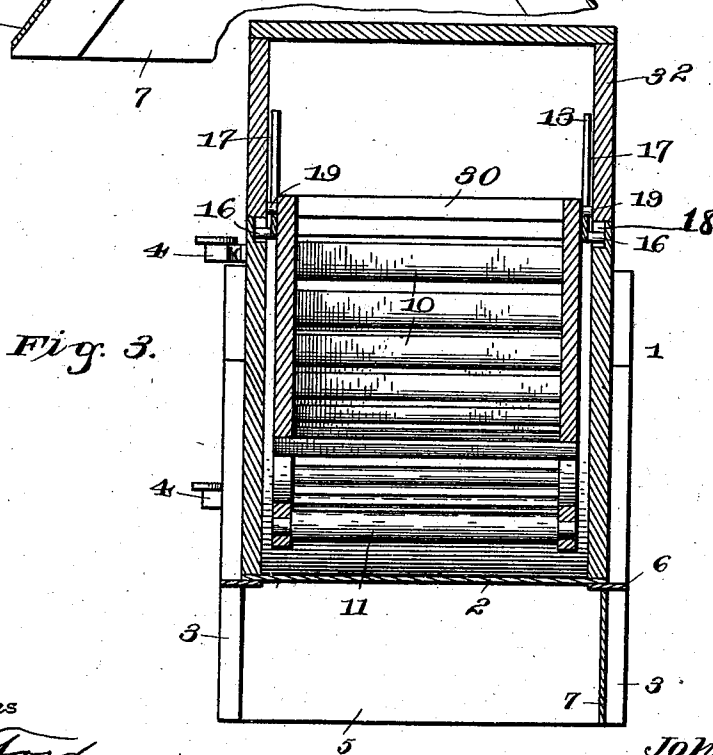


Fig. 3.

Witnesses

Chas. Ford
W. H. Riley

By *his* Attorneys,

Chas. H. Snow & Co.

Inventor

John A. Garrett,

UNITED STATES PATENT OFFICE.

JOHN A. GARRETT, OF DALTON CITY, ILLINOIS.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 504,418, dated September 5, 1893.

Application filed April 22, 1893. Serial No. 471,514. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. GARRETT, a citizen of the United States, residing at Dalton City, in the county of Moultrie and State of Illinois, 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 improve the construction of washing machines, and to enable all kinds of clothes to be rapidly and thoroughly cleaned at the expenditure of a minimum amount of labor.

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.

20 In the drawings—Figure 1 is a perspective view of a washing machine constructed in accordance with this invention, the top being removed. Fig. 2 is a longitudinal sectional view. Fig. 3 is a transverse sectional view.

25 Like numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates an approximately semi-cylindrical washing machine body having a sheet metal bottom 2 and supported by oppositely inclined legs 3. The sheet metal bottom is to enable the water to be heated during the operation of washing, and this may be done by any suitable heating apparatus, preferably a gasoline burner shown in dotted lines, the brackets 4 being provided for supporting such. The lower portions of the legs have secured to them sheet metal plates 5 to confine the heat, and a curved guard flange 6 is secured to the legs at one side of the body and projects laterally from the bottom of the latter. At the other side of the body a longitudinal plate 7 is secured to the rail, and co-operates with the plates 5 in confining the heat. The clothes are washed between upper and lower reversely oscillating rubbers 8 and 9, which are journaled at the sides of the body, and which are provided with oppositely disposed rubbing surfaces. The upper oscillating rubber is approximately semi-cylindrical, and has its rubbing surface on its lower curved face, it being provided thereat with a series

of transverse bars 10, which are triangular in cross-section. The lower oscillating rubber is curved, and is provided on its upper face with a series of transversely disposed rolls or round bars 11, which are journaled at the sides of the lower rubber, and which form its rubbing surface. The lower oscillating rubber is suspended within the body 1 by opposite supporting frames 12, each of which consists of top portions 13, depending ends 14 and a depending central arm 15, provided at its lower end with a journal 16, and having a vertical bearing slot 17. The journal fits in a bearing recess 18 of the side of the body and the slot 17 receives detachably a journal 19 of the adjacent side of the upper oscillating rubber. The bearing recess 18 of each side of the body extends downward from its upper edge, and it will be apparent that both the upper and lower oscillating rubbers are detachably mounted or journaled in the washing machine body. The upper and lower rubbers are oscillated by an operating lever 20 having its upper end fulcrumed between the upper ends of a pair of standards or arms 21, which have their lower ends secured to the washing machine body, and which incline upward and outward from one end thereof. A bell-crank lever 22 is journaled between the standards or arms 21, near the lower ends thereof; its outer end is connected by a bar 23 with the operating lever; and its inner end is provided with a curved extension 24 which is connected respectively with the upper and lower oscillating rubbers by connecting rods 25 and 26. The extension 24 and the outer end of the bell-crank lever are provided with adjusting perforations 27 and 28 for regulating the relative oscillations of the rubbers. The connecting rod 26 is short, and extends downward from the arm 24 of the bell-crank lever to the adjacent end of the lower oscillating rubber to which it is pivoted. The other connecting rod 25 is slightly angular and extends from the curved extension or arm 24 of the bell-crank lever, to an arm or post 29 of the upper oscillating rubber; and the latter is mounted on the central cross-piece 30, and is provided with a series of adjusting perforations 31. By oscillating the operating lever the upper and lower rubbers are reversely oscillated, and it will be readily seen that such

oscillation may be regulated by the adjusting perforations.

The washing machine has a cover 32, which is provided at one end with a vertical opening 33 to permit the operation and movements of the parts of the actuating mechanism.

It will be seen that the washing machine is simple and comparatively inexpensive in construction, and that it is capable of rapidly and thoroughly cleaning clothes with little labor on the part of the operator.

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 advantages of this invention.

What I claim is—

1. In a washing machine, the combination of a semi-cylindrical body, an upper oscillating rubber provided at its sides with journals and having a rubbing surface on its lower face, a lower oscillating rubber having a rubbing surface on its upper face, and the opposite supporting frames, each composed of upper portions, depending ends secured to the lower rubber and a depending central arm provided at its lower end with a journal to fit in a bearing of the body and having a vertical slot receiving the adjacent journal of the upper rubber, substantially as described.

2. In a washing machine, the combination of a washing machine body, the upper and lower reversely oscillating rubbers, a standard extending upward from one end of the body, an operating lever fulcrumed at the top of the standard and extending outward there-

from, an arm extending upward from the upper rubber, a bell-crank lever fulcrumed at its angle at the bottom of the standard, a bar 23 connecting the outer end of the bell-crank lever with the operating lever, and the connecting rods extending from the inner end of the bell-crank lever to the adjacent end of the lower rubber and to the arm of the upper rubber, substantially as described.

3. In a washing machine, the combination of a washing machine body, the upper and lower oscillating rubbers, the standards extending upward and outward from one end of the body, an operating lever fulcrumed at the top of the standards, a bell-crank lever fulcrumed between the lower ends of the standards and provided at its outer end with adjusting perforations and having at its inner end an extension provided with adjusting perforations, a bar connecting the outer end of the bell-crank lever with the operating lever, an arm extending upward from the upper rubber and provided with adjusting perforations, and the connecting rods extending from the extension of the bell-crank lever to the arm of the upper rubber and to the adjacent end of the lower rubber, substantially as described.

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

JOHN A. GARRETT.

Witnesses:

J. N. LOVING,
A. S. CLARK.