

(No Model.)

2 Sheets—Sheet 1.

M. R. GIBBS.
WASHING MACHINE.

No. 483,439.

Patented Sept. 27, 1892.

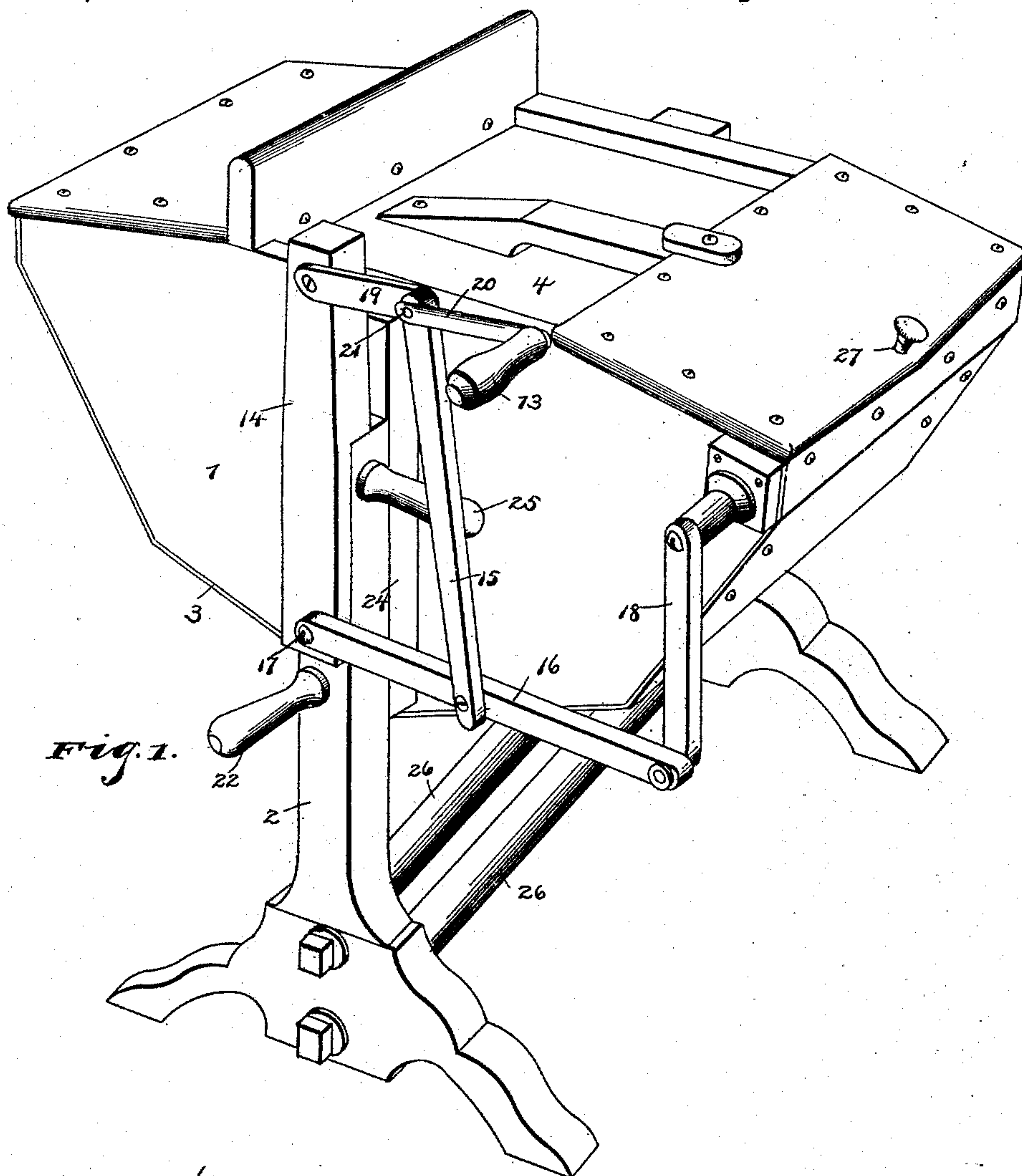


Fig. 1.

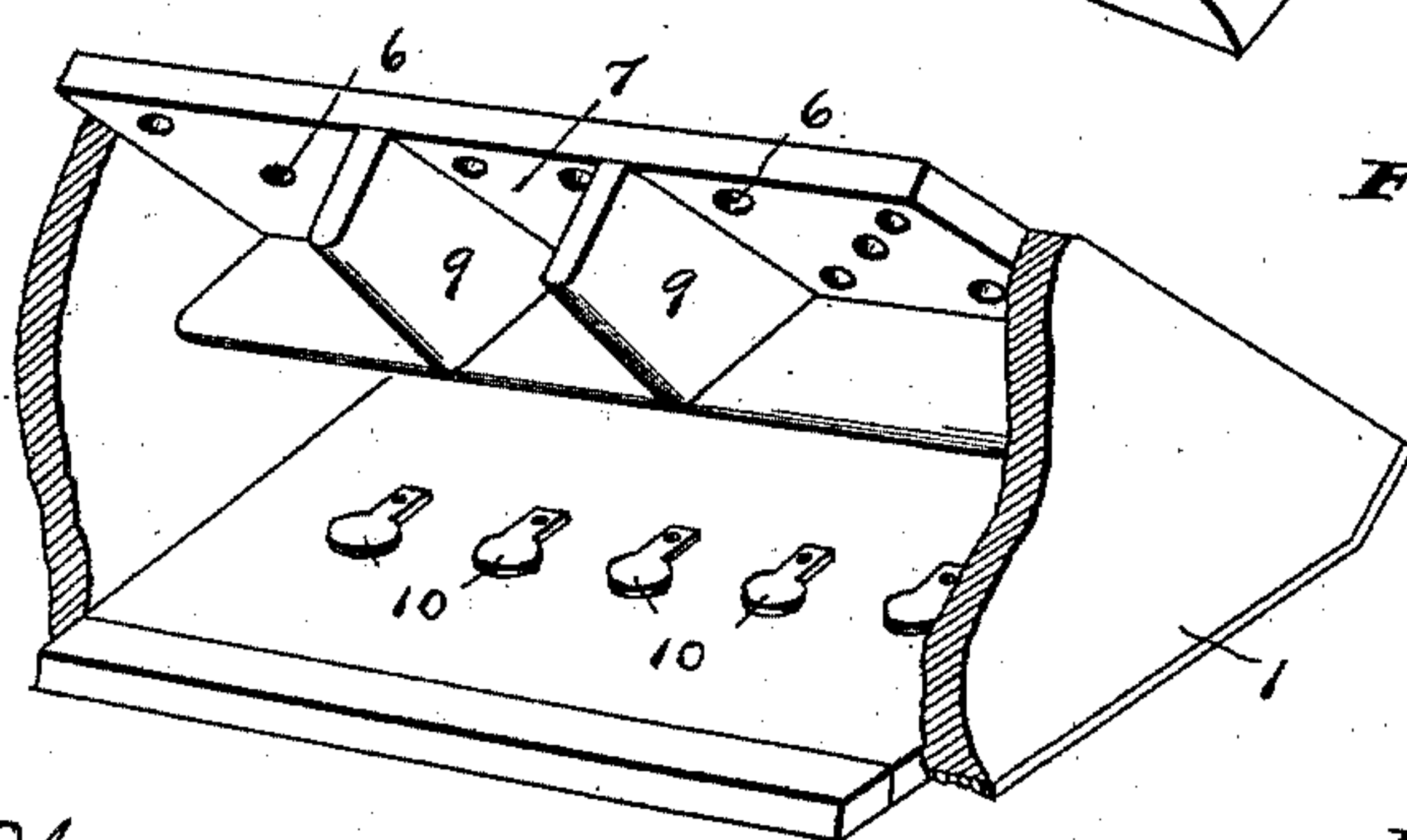


Fig. 2.

Witnesses

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N. H. Riley

Inventor

Marian R. Gibbs

By her Attorneys,

C. A. Snow & Co.

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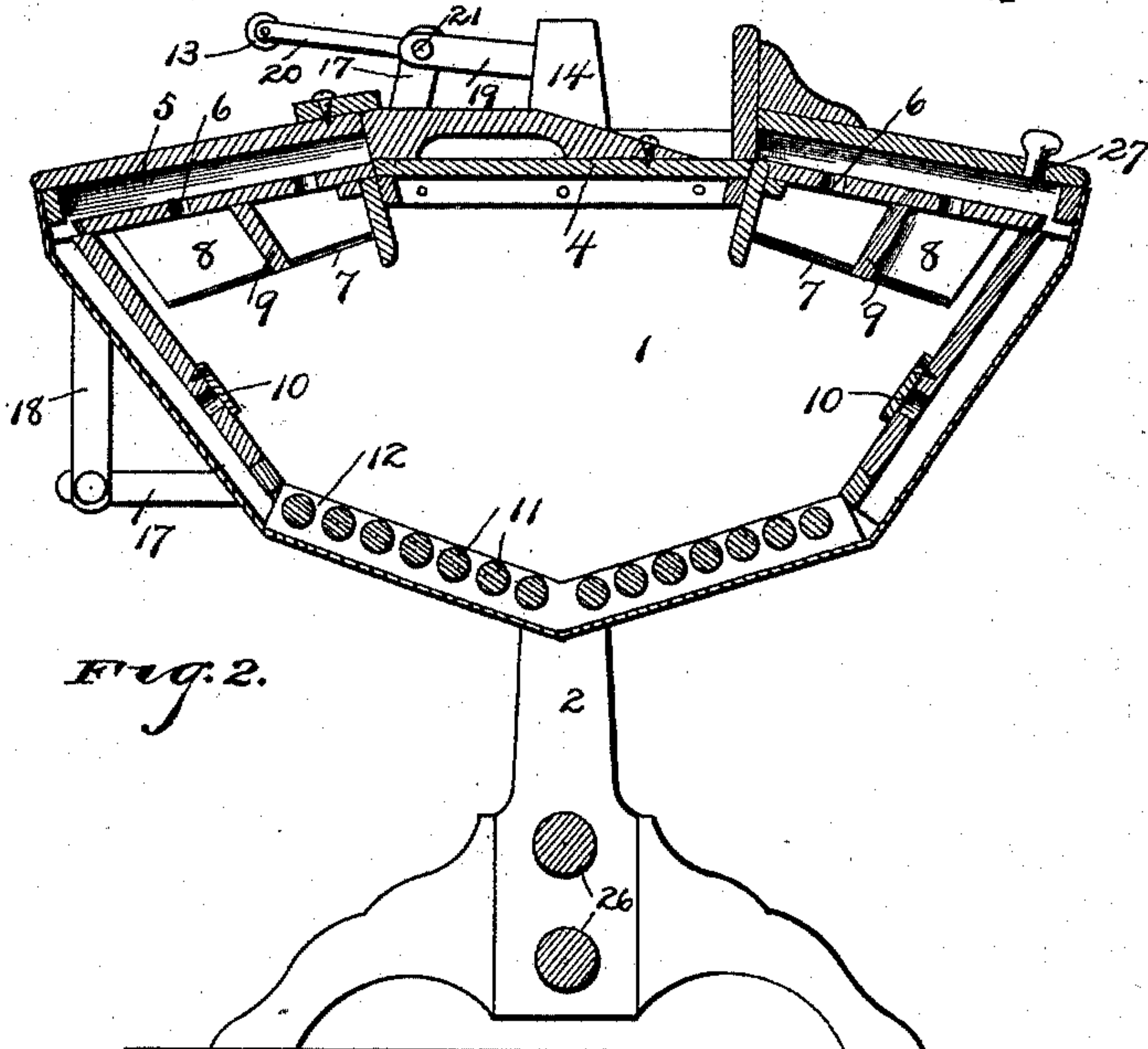


Fig. 2.

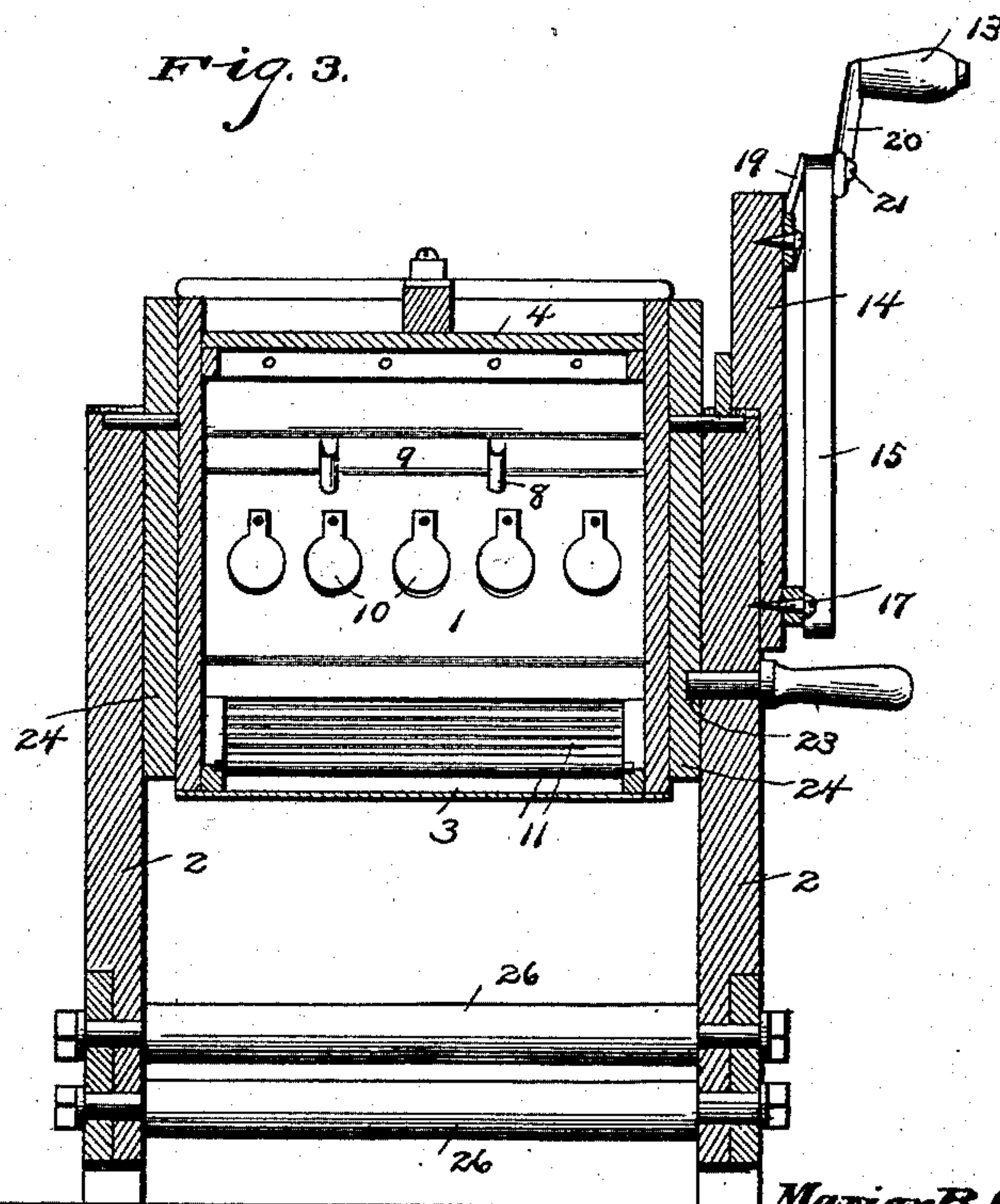


Fig. 3.

Witnesses

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UNITED STATES PATENT OFFICE.

MARIAN R. GIBBS, OF CHERRY CREEK, NEW YORK.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 483,439, dated September 27, 1892.

Application filed March 11, 1892. Serial No. 424,569. (No model.)

To all whom it may concern:

Be it known that I, MARIAN R. GIBBS, a citizen of the United States, residing at Cherry Creek, in the county of Chautauqua and State of New York, have invented a new and useful Washing-Machine, of which the following is a specification.

The invention relates to improvements in washing-machines.

The object of the present invention is to simplify and improve the construction of washing-machines, to enable clothes to be thoroughly cleaned without abrasion, and to provide means whereby a washing-machine may be operated with little force.

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 a washing-machine constructed in accordance with this invention. Fig. 2 is a longitudinal sectional view. Fig. 3 is a transverse sectional view. Fig. 4 is a detail perspective view.

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

1 designates a semi-octagonal washing-machine body, which is journaled between standards 2 and which is adapted to be oscillated to cause clothes being washed to move back and forth from one end of it to the other and to force water and steam through the clothes. The body 1 has a sheet-metal bottom 3 and is provided at its top with a central cover 4 and at its ends on opposite sides of the cover with chambers or compartments 5, extending along the top and ends of the body 1 and adapted to contain steam and water.

The upper approximately-horizontal portion of each compartment 5 communicates, by means of perforations 6, with a series of rectangular buckets or recesses 7, which are formed by partitions 8 and 9, arranged at right angles to one another. The lower approximately-vertical portion of each compartment 5 is provided with a series of outwardly-opening valves 10, whereby when clothes are forced by the oscillation of the body to one end of the same the valves at that end will close and

prevent the escape of water and steam through them and the valves at the other end will open and permit the water and steam to flow into the body upon the clothes, and by this arrangement considerable suction is produced in the compartments, which are air-tight, with the exception of the perforations 6, and water and steam are thereby forced through the clothes.

The angular bottom 3 of the body causes the clothes to continually shift their positions in passing from one end of the body to the other, and in order to prevent abrasion a series of transverse rollers 11 are arranged on the inner face of the bottom 3 and have their ends journaled in longitudinally-disposed bars 12, secured to the sides of the body.

The washing-machine is operated by a crank-handle 13, journaled on an upright piece 14 and connected by a rod 15 with a lever 16, which has its inner end fulcrumed on a pivot 17 near the lower end of the upright piece 14, and which has its outer end connected by a rod 18 with a laterally-extending journal of one end of the washing-machine body 1, whereby when the crank-handle 13 is rotated an oscillatory motion will be imparted to the churn-body. The bar of the crank-handle 13 is composed of two sections 19 and 20, which have their adjacent ends connected by a pivot 21, which is rigid with the sections of the bar and which pivots the upper end of the connecting-rod 17. By this construction the handle portion of the crank-handle is arranged so that it will operate clear of the connecting-rod.

The washing-machine body is held against oscillation while clothes are being taken out or put in by a removable pin 22, which is arranged in an opening of one of the standards and which is adapted to engage a perforation 23 of a cleat 24, arranged on the sides of the body. The upper ends of the standards are provided with handles 25, by which the machine may be readily moved.

The standards are connected near their lower ends or feet by rungs or rods 26, and they form, with the upright piece 14, a supporting-frame. The body is provided at one end with a drain opening or vent 27.

What I claim is—

1. The combination of a supporting-frame, an oscillating washing-machine body mounted

in the same and provided at one end with a laterally-extending journal, a crank-handle pivoted to one side of the frame and having a bar composed of the sections 19 and 20 and
5 a pivot connecting the adjacent ends of the sections, a horizontally-extending lever arranged below the crank-handle and having its inner end fulcrumed on the frame, a connecting-bar 18, extending from the outer end
10 of the lever to the laterally-extending journal, and an upwardly-extending rod 15, having its lower end pivotally connected to the lever at a point between the ends of the latter and having its upper end connected to the
15 pivot of the crank-handle, substantially as described.

2. In a washing-machine, the combination of a frame, an oscillating body journaled on

the frame, the steam and water compartments arranged at the ends of the body and at the
20 top of the same, the upper portions having the perforations 6, a series of recesses or buckets arranged beneath each of the upper portions of the compartments and communicating by means of the perforations 6 with the
25 same, and a series of valves arranged on the lower portions of the compartments, substantially as described.

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

MARIAN R. GIBBS.

Witnesses:

A. R. SMITH,
H. C. MOUNT.