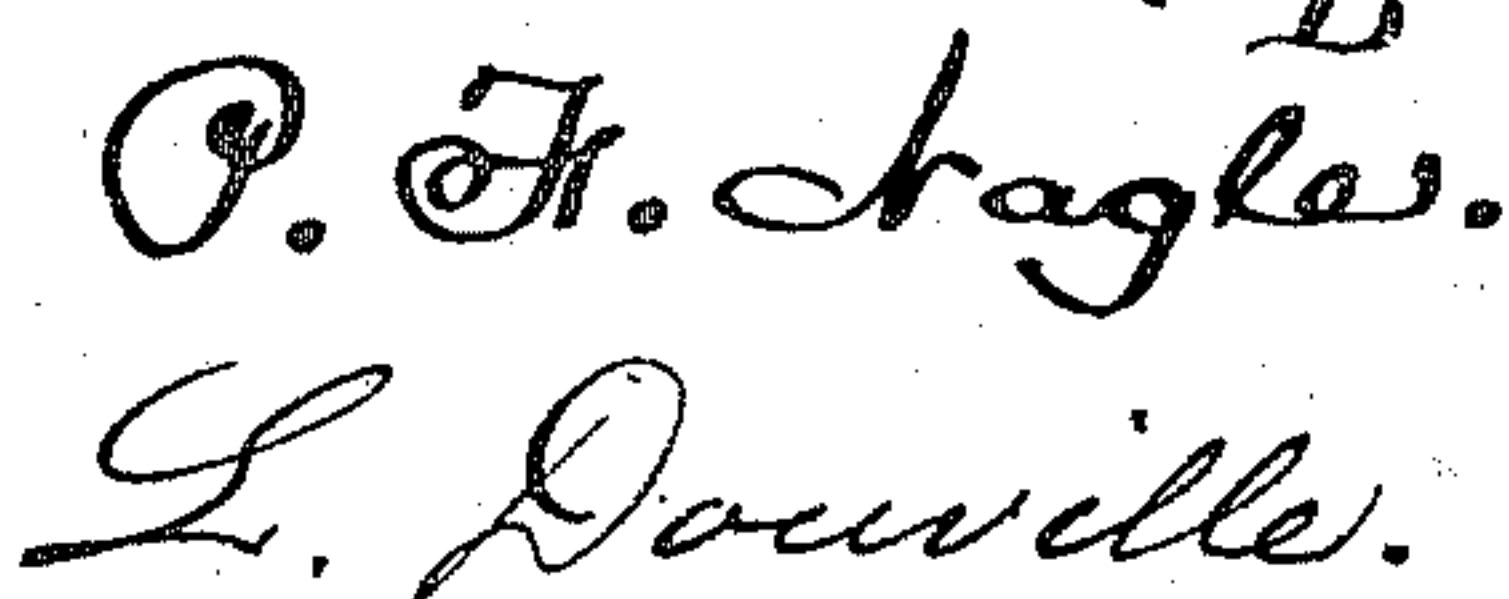


F. TRAUB.
WASHING MACHINE.

Patented Jan. 29, 1895.



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UNITED STATES PATENT OFFICE.

FREDERICK TRAUB, OF PHILADELPHIA, PENNSYLVANIA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 533,253, dated January 29, 1895.

Application filed November 20, 1893. Serial No. 491,486. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK TRAUB, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Washing-Machines, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of an improvement in washing machines, formed of a metallic tub in which is situated a cage formed of wood of novel construction.

It also consists in providing the machine with an oil cup of such construction that the beater-spindle will be clear of oil, while the wheel which carries the same may be properly lubricated, without permitting the oil to enter the tub.

Figure 1 represents a vertical section of a washing machine embodying my invention, a part of the beater shaft and the beaters being omitted so as to show more clearly the sides of the tub. Fig. 2 represents a plan view of the cage and adjacent parts of the tub. Fig. 3 represents a perspective view of the oil-cup, the parts being separated, and Fig. 4 represents a section of a portion on line *x, x*, Fig. 1.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings: A designates a frame on which is supported a metallic tub B. Within said tub B is a cage C, formed of vertical posts D, the side slats E and bottom slats C'. The lower ends of said slats E, and the side ends of said slats C' are secured to the bottom rim B' of the cage, and the tops of the vertical slats are connected by the band G, spaces being left between the slats to allow free passage of the water therethrough, whereby communication is established between said cage and tub.

F designates ledges which are secured to the frame A, in such manner as to form part of the top of the tub around the upper end of the cage, said ledges having recesses D', in their inner walls to receive the posts D of said cage, whereby rotation of the latter is prevented.

H designates a lid which is hinged to the frame A and has an opening J therein, in

which latter is the annulus or plate K in whose upper face is a groove L, thus forming an oil-cup, the inner wall M of which is higher than the outer wall N, said cup also acting as a side bearing for the lower end of the hub of a bevel pinion P, on which is a depending flange L', the latter being seated on the base of said groove and moving thereon.

Q designates a squared or angular spindle which freely passes through a similarly shaped opening in the hub R of the pinion P, and projects into the cage C, where it is provided with beaters which as they may be of any suitable form, and not being, *per se*, part of this invention, are not shown in the drawings.

A cap S covers the main portion of the pinion P, and has its upper portion forming a bearing for the top of the hub of the said pinion P, said cap being also provided with an arm T which supports the power or driving wheel U, whereby motion may be imparted to the pinion P, thus rotating the spindle Q, and operating the beaters.

The spaces between the slats E, C', permit the passage of the water through the same, while the clothes, &c., do not contact with the metal of the tub.

It will be seen that by the use of the cup K, the escape of the oil into the cage and tub is prevented, as the said oil is contained in said cup as a reservoir, but if the quantity of oil is excessive, it will overflow outwardly at the lower wall N of said cup, it being evident that while the spindle is adapted to rotate, it is not subjected to the oil or lubricant, but the pinion will be nicely oiled or lubricated without liability of reaching the spindle and interior of the cage or tub.

Should the lid be raised, the oil may flow down and around the channel of the oil-cup and escape at the portion of the wall N which is lowermost, without reaching the lower end of the hub of the pinion P.

The ledges F are supported in cleats V, which are secured to the interior of the tub, and also serve to sustain the lid H, when the latter is in closed position.

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

In a washing machine, a tub, inclined
ledges forming part of the top of the tub and
having recesses therein, a cage formed of
slatted sides, and a bottom piece having slats
5 secured thereto and provided with vertical
side posts movable in said recesses in the
ledge, said cage being supported on said tub,

said parts being combined substantially as
described.

FREDERICK TRAUB.

Witnesses:

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