

UNITED STATES PATENT OFFICE.

LEWIS F. STOUT AND NATHAN STOUT, OF STAR CITY, INDIANA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 449,600, dated March 31, 1891.

Application filed June 27, 1890. Serial No. 356,997. (No model.)

To all whom it may concern:

Be it known that we, LEWIS F. STOUT and NATHAN STOUT, citizens of the United States, residing at Star City, in the county of Pulaski and State of Indiana, have invented certain new and useful Improvements in Washing-Machines; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to washing-machines; and it consists in certain improvements whereby the construction of the same is simplified and the washing done effectually; and with these ends in view our invention consists in parts and combination of parts, as will be more fully described, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a top plan view of the operating mechanism secured to top of tub. Fig. 2 is a section through the line $x x$; Fig. 3 a longitudinal central section.

A represents the tub, constructed of bent wood and supported on suitable standards B. On said tub is a cover C, hinged at C' and secured down at its free end by means of buttons $c c$.

D D are bearings secured to the top of the cover C, in which the shaft D' works. Secured to the shaft D' is a fly-wheel d at one end, and to the other end of the shaft is secured a small cog-wheel d' . Secured on this shaft D' and abutting against bearings D are suitable adjustable collars serving to keep the cog-wheel d' and fly-wheel d each a suitable distance from the sides of the tub.

E is a gear-wheel meshing with cog-wheel d' and secured to shaft E', said shaft E' running in bearings $e e$, supported on standards $e' e'$, secured to the top of the cover C. On this shaft are also secured suitable adjustable collars abutting against the bearings $e e$. The inner end of the shaft E' terminates in a crank-arm e'' , to which is secured a pitman e^2 . The other end of the pitman is secured to the rubber rod F, said rod being pivoted in bearings $f f$, secured to the cover C, and passing through a slot in said cover.

To the lower end of the rod F is secured a rubber F', which may be of any desired shape. f^2 are pins secured to the under side of said rubber, said pins being flared at their lower ends, thus affording a broader surface to operate on the clothes.

On the inside of the sides and bottom of the tub proper are secured wash-boards, made of grooved wood, set at about four inches apart from each other, thus leaving the tub rough on the sides and bottom, thus causing more friction and aiding in washing.

E² is a crank secured to shaft E', by means of which the above mechanism is operated.

The operation of our washing-machine is as follows: The crank E² is turned, thus revolving shaft E' and crank-arm e'' , which sets in motion the rod F, which in turn swings the rubber F', which rubs the clothes back and forth over the grooved boards secured to the sides and bottom of the tub, the pins f^2 catching the clothes.

It is evident that many slight changes and alterations may be made in the relative construction and arrangement of parts without departing from the spirit of our invention, and hence we would have it understood that we do not confine ourselves strictly to the parts herein described.

Having fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

In a washing-machine, the combination, with the shaft D', having a cog-wheel and fly-wheel secured on its ends, respectively, of a shaft E', terminating in a crank-arm e'' at one end and having a gear-wheel secured to the other end, a rubber rod, and rubber, said rubber rod being pivoted in bearings on the lid and connected with the crank-arm e'' by means of pitman e^2 , whereby said rubber is given a reciprocating motion.

In testimony whereof we affix our signatures in presence of two witnesses.

LEWIS F. STOUT.
NATHAN STOUT.

Witnesses:

S. H. HEWARD,
W. A. NOLAND.