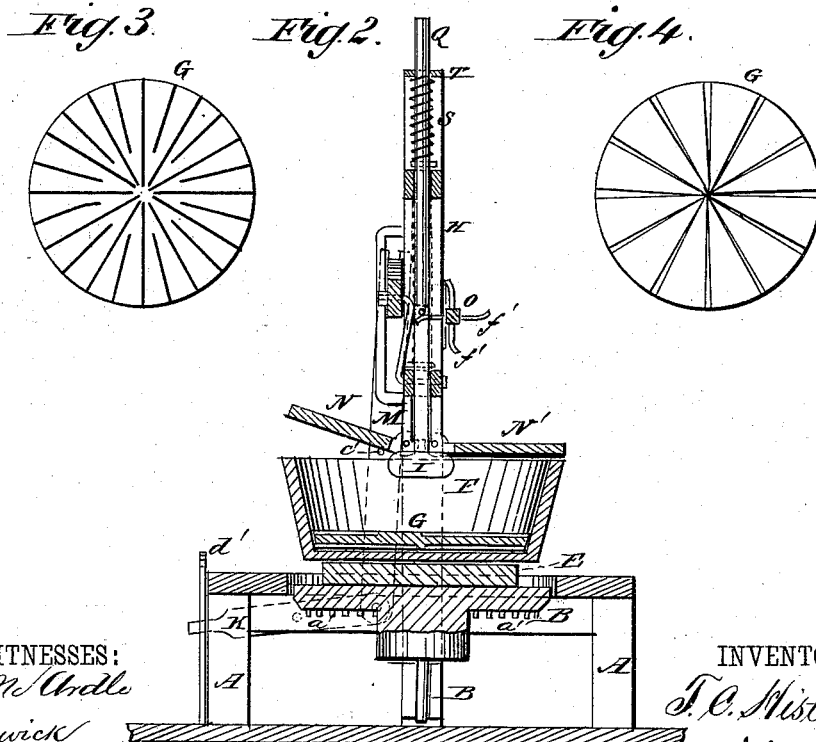
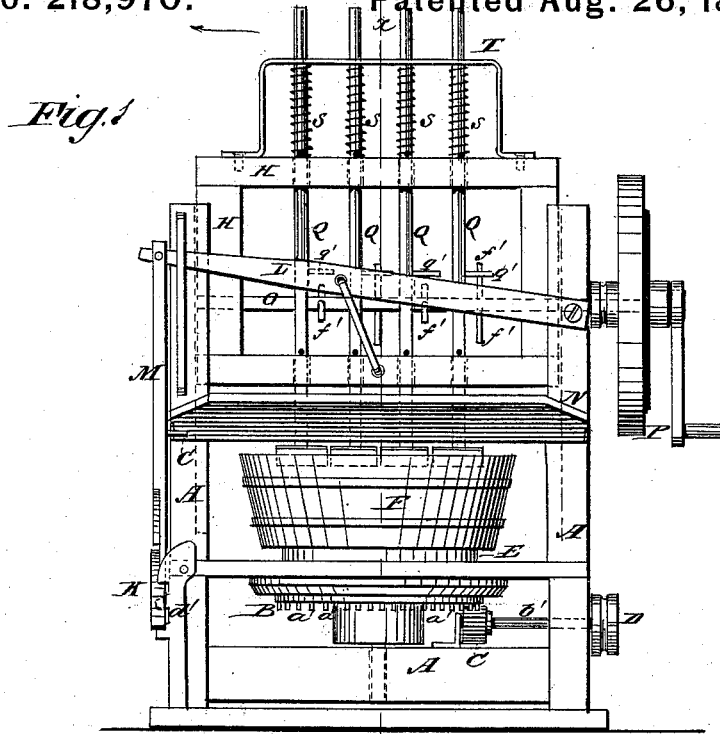


T. C. HISTED.  
Washing-Machine.

No. 218,970.

Patented Aug. 26, 1879.



WITNESSES:

F. M. Under  
C. Sedgwick

INVENTOR:

T. C. Misted

BY

~~ATTORNEYS.~~

# UNITED STATES PATENT OFFICE.

THADDEUS C. HISTED, OF JUNCTION CITY, KANSAS, ASSIGNOR TO GEORGE L. MEDDICK, SANFORD C. MEDDICK, AND MARGARET E. HISTED, OF SAME PLACE, ONE-THIRD TO EACH.

## IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **218,970**, dated August 26, 1879; application filed May 23, 1879.

### *To all whom it may concern:*

Be it known that I, THADDEUS C. HISTED, of Junction City, in the county of Davis and State of Kansas, have invented a new and Improved Washing-Machine, of which the following is a specification.

Figure 1 is a front elevation of the machine. Fig. 2 is a vertical sectional elevation in line *x x*, Fig. 1. Fig. 3 is a plan of the upper face of the false bottom of the tub. Fig. 4 is a plan of the reverse face of the same.

Similar letters of reference indicate corresponding parts.

The invention relates to washing-machines in which beaters are employed in connection with a rotated tub; and consists in the peculiar construction and relative arrangement of parts, as hereinafter described.

A represents a frame, to whose lower cross-timber is pivoted the circular carrier B, that is provided on its under surface with an annular series of teeth, *a'*, in which engages the pinion C, by which it is revolved, and in the shaft *b'*, on which is the pulley D. Set upon the upper face of this carrier and movably secured is the disk E, upon which is placed the tub F, for containing the clothes, and which is movably secured to the disk.

Within the tub is a false or movable bottom, G, grooved radially on either side, as shown, to admit of a circulation of water through the clothes and tub. Within the perpendicularly-grooved standards of the frame A the beater-frame H, carrying four beaters, I, more or less, is made to slide up and down, so that the posi-

tion of the beaters can be properly adjusted by the levers K L and their connecting-rod M, and the said connecting-rod is provided with a projecting pin, *c'*, that engages under and lifts the hinged shelf N as the beater-frame is raised, so that the tub may be removed or the clothes put in or taken out.

The shelves N N' serve as covers to the tub, and when the machine is in operation they remain down or closed.

Revolving in bearings fixed to the faces of the standards is the shaft O, with its pulley on a crank, P. As the shaft is revolved, the pins or cams *f'*, with which it is provided, engage with the pins *g'* in the beater-shaft Q, and lift the beaters I, to let them fall again upon the clothes in the tub; and with the motion of the shaft the alternate rise and fall of the beaters continues, and at the same time the tub is revolved by power applied to the pulley D, so that the clothes present constant new surfaces to the action of the beaters.

The spiral springs S, held upon the shafts of the beaters by the yoke T, determine the force of the strokes.

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

The combination of the beater-frame H, levers K L, rod M, having pin *c'*, and the hinged shelves N, as and for the purpose specified.

THADDEUS CONSTANTINE HISTED.

Witnesses:

P. V. TROVINGER,  
E. E. HEATH.