(Model.)

# W. T. HOLLIS.

## WASHING MACHINE.

No. 246,775. Patented Sept. 6, 1881.

*Fig. 1.*

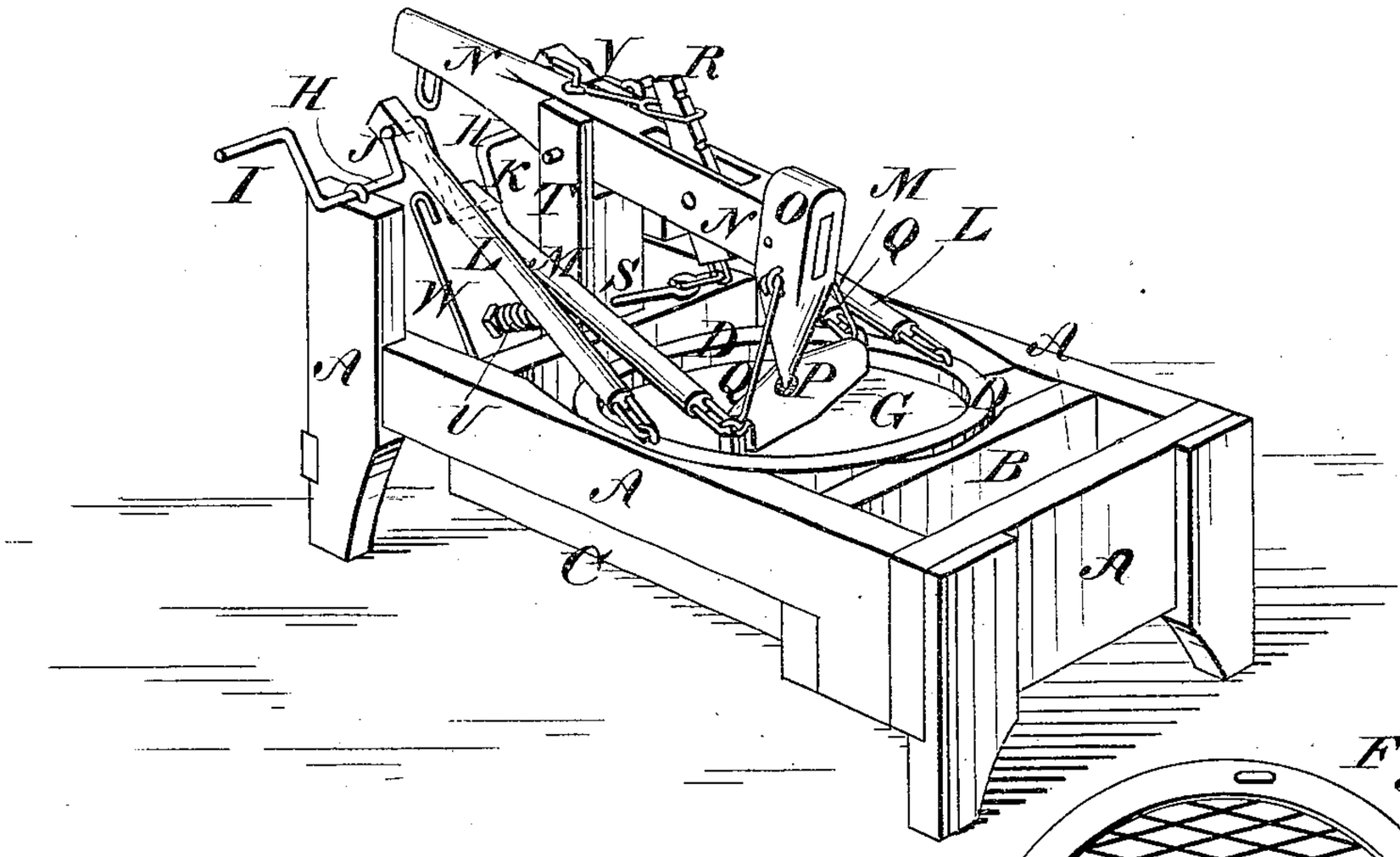


*Fig. 3.*

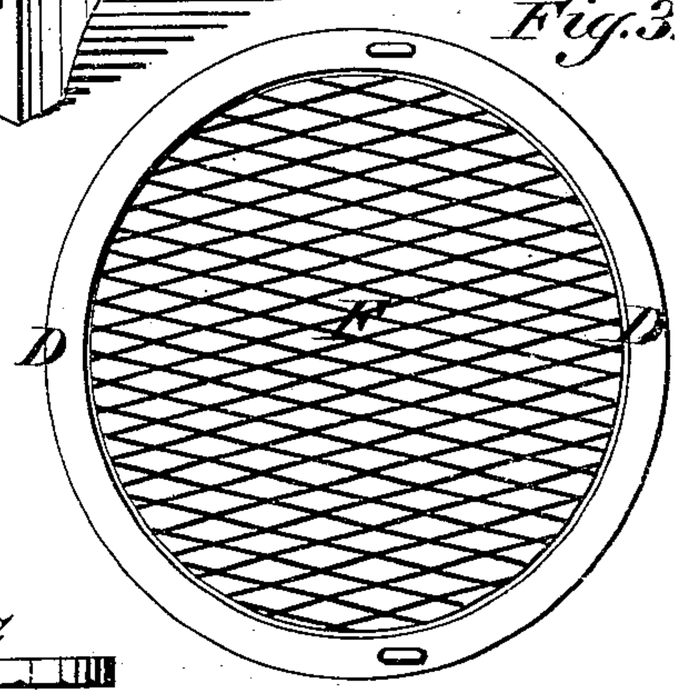


*Fig. 2.*




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# UNITED STATES PATENT OFFICE.

WILLIAM T. HOLLIS, OF CORSICANA, TEXAS.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 246,775, dated September 6, 1881.

Application filed January 25, 1881. (Model.)

*To all whom it may concern:*

Be it known that I, WILLIAM T. HOLLIS, of Corsicana, in the county of Navarro and State of Texas, have invented a new and useful Improvement in Washing-Machines, of which the following is a specification.

Figure 1 is a perspective view of the improvement. Fig. 2 is a sectional side elevation. Fig. 3 is a plan view of the tub and lower rubber.

Similar letters of reference indicate corresponding parts.

The object of this invention is to regulate the pressure of the rubber upon the clothes, and thus facilitate the operation of washing the said clothes.

In the accompanying drawings, A represents the frame of the machine, which is mounted upon legs of such a length as will raise the machine to a convenient height, and in one end of which is formed a receptacle, B, to receive clothes or other desired articles.

In the middle part of the frame A is formed a box, table, or platform, C, to receive the tub D, which tub rests and turns upon a pivot, E, attached to the table C. The upper surface of the bottom F of the tub D, or of a false bottom placed within the said tub, is corrugated, as shown in Fig. 3, to adapt it to rub the clothes.

G is the upper rubber, the lower surface of which is corrugated in the same manner as the bottom F, and which is made of such a size as to fit into and work freely in the tub D.

To the upwardly-projecting ends of the rear legs of the frame A are attached bearings, in which revolves a shaft, H, which has a crank, I, formed upon or attached to one end, by means of which the said shaft H is revolved. Upon the shaft H are formed two cranks, J, projecting upon one side, and two cranks, K, projecting upon the other side, the four cranks, J K, forming two double cranks.

To the crank J of one of the double cranks and to the crank K of the other double crank are pivoted the ends of the two connecting-bars L, the other ends of which are pivoted to the upper edge of the opposite sides of the tub D, so that the said tub will be vibrated upon its pivot E by the revolution of the shaft H. To the other cranks J K are pivoted the ends of two connecting-bars, M, the other ends of which are pivoted to the opposite parts of the upper side of the upper rubber, G, so that the rubber G will be vibrated at the same time as the tub D, and in the opposite direction, by turning the crank-shaft H.

To the rear side of the table or box C is attached a post, T, to the slotted upper end of which is pivoted a lever, N.

To the forward end of the lever N is attached a head-block, the lower end of which is made pointed, and rests in a socket, P, in the center of the upper rubber, G, or of a cross-bar or cleat attached to the said rubber. The pointed head O thus centers the rubber G in the tub D and serves as a pivot for the said rubber to vibrate upon.

To the opposite sides of the head-block O of the lever N are attached the upper ends of two rods, Q, the lower ends of which are attached to the opposite parts of the rubber G, so that the said rubber can be raised by operating the lever N to give access to the tub D for putting in and taking out the clothes. The forward part of the lever N is slotted vertically, and in the said slot is pivoted the middle part of a short lever, R, the ends of which project above and below the said lever N.

To the lower end of the lever R is pivoted the forward end of a rod, S, which passes through a hole in the lower part of the post T, and has a spiral or other spring, U, placed upon or connected with its rear end. The rear end of the spring U rests against a nut or other stop screwed upon or attached to the rear end of the rod S, and its forward end rests against the post T. The spring U is designed to hold the rubber G down upon the clothes with the necessary pressure. The tension of the spring U, and consequently the pressure upon the clothes, is regulated by lever R. The lever R has notches formed in the forward edge of its upper end to receive the loop or link V, which is hinged to the lever N, so that the tension of the spring U can be regulated by adjusting the link V upon the lever R. The upper rubber, G, is secured in place, when raised, by the rod W, the lower end of which is attached to the frame A, and its upper end has a hook formed upon it to hook upon the rear end of

the lever N or into a staple attached to the said lever.

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

1. In a washing-machine, the combination, with lever N, the post T, and rubber G, and block O, of lever R, rod S, spring U, and link V, substantially as herein shown and described, whereby the pressure of the rubber upon the clothes can be regulated, as set forth.

2. In a washing-machine, the combination, with the pivoted lever N, the rubber G, having socket P, the lever R, link V, and block O, and the frame-post T, of the rod S and spring U, substantially as herein shown and described, whereby pressure is applied to the clothes, as set forth.

3. In a washing-machine, the combination, with the pivoted lever N and the rubber G, having socket P, of the pointed head O, substantially as herein shown and described, whereby the said rubber is centered and pivoted, as set forth.

WILLIAM TAILLER HOLLIS.

Witnesses:
JOHN W. HOLLIS,
JAMES H. MEDLEY.