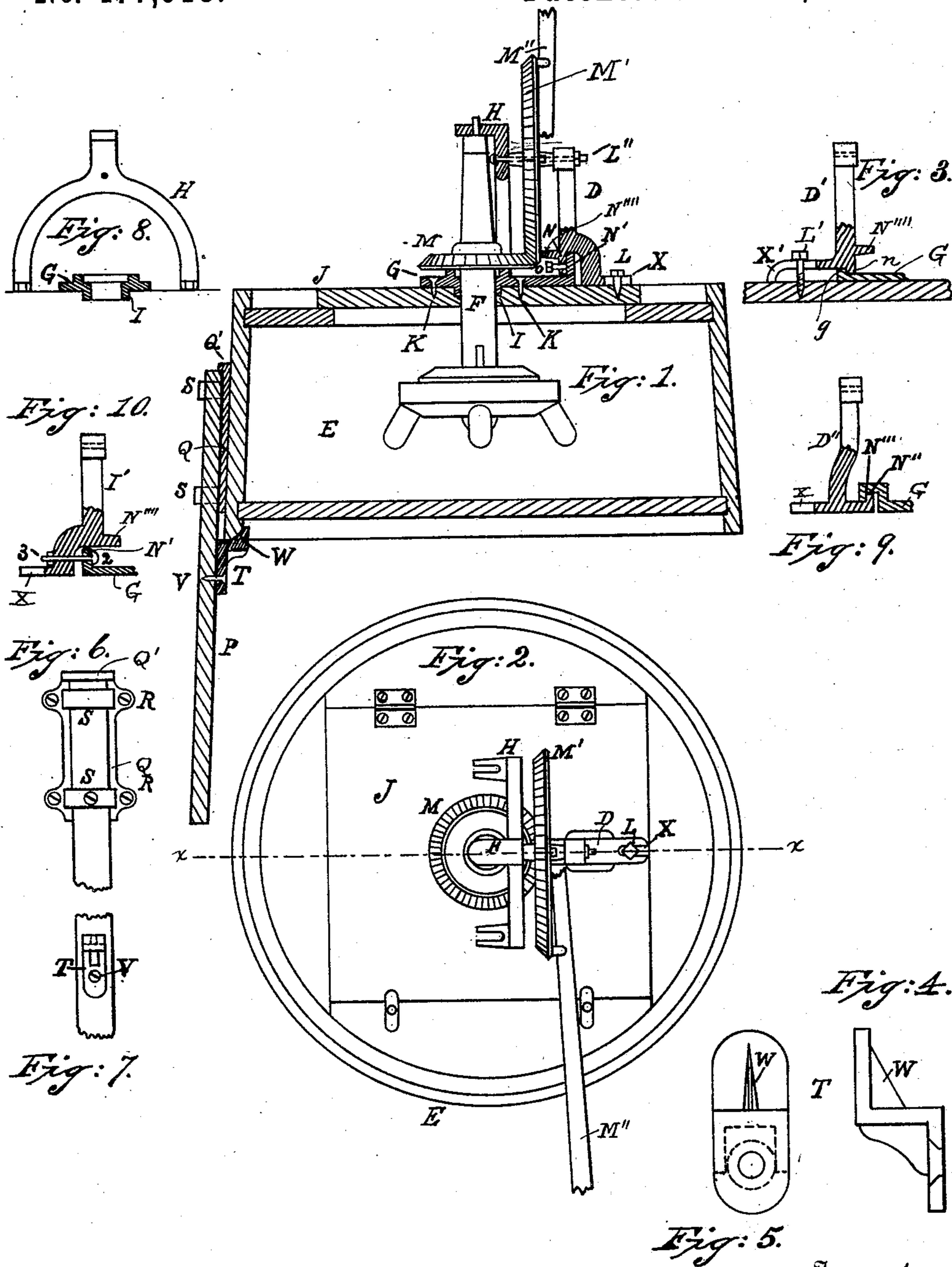


(No Model.)

J. H. TAYLOR.
WASHING MACHINE.

No. 477,918.

Patented June 28, 1892.



Witnesses

L. H. Colburn.
Chas. B. Colburn

Inventor.
James H. Taylor;
by H. Colburn
Attorney -

UNITED STATES PATENT OFFICE.

JAMES H. TAYLOR, OF TOLEDO, OHIO.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 477,918, dated June 28, 1892.

Application filed April 8, 1891. Serial No. 388,093. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. TAYLOR, a citizen of the United States, residing at Toledo, in the county of Lucas and State of Ohio, have
5 invented certain new and useful Improvements in Washing-Machines; and I 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 ap-
10 pertains to make and use the same.

This invention relates to improvements in washing-machines of that variety termed "rotary dasher;" and the objects of the same are to provide means for keeping the bevel-
15 gearing in operative position, for adjusting the same to take up for wear, and for securing the legs or standards to the tub. These objects I accomplish by constructing my machine substantially as hereinafter more fully
20 described and claimed, and as illustrated on the accompanying drawings, wherein—

Figure 1 is a central vertical section of the machine on the line *xx* of Fig. 2. Fig. 2 is a plan view of the machine without the stand-
25 ards or legs. Fig. 3 is a section of a modified form of the adjustable bearing. Figs. 4 and 5 are respectively a side and an edge view of the leg-locking hook. Fig. 6 is a front elevation of the leg-clasp. Fig. 7 is an in-
30 side elevation of a portion of one leg with the hook secured thereto. Fig. 8 is a side elevation of the stationary bearing and a section of the bearing for the dasher-shaft. Figs. 9 and 10 are sections of modified forms of the
35 adjustable bearing and the bearing-plate.

Like letters of reference refer to similar parts in the several views.

Referring to the said drawings, the letter E designates the body of the tub, which it
40 will be understood is preferably cylindrical or slightly tapering, as shown, and of wood, and P is one of the standards or legs supporting this tub. A clasp Q is secured to the outside of the tub by screws R, and through in-
45 tegral bands S on this clasp the leg P extends, its upper end abutting against an out-turned end Q' at the upper extremity of the clasp-body, as seen in Fig. 1. In addition a
50 hook T is secured by a screw or bolt V to the inner face of the leg, and by facing upward is adapted to take under the chine of the tub, and in the angle of this hook is a fin or

web W, which enters the wood of said chine and prevents the hook from moving annu-
larly. It will thus be seen that the leg is 55
firmly locked in position, yet it may be removed downwardly at any time, as is often desirable when the washing-machine is to be stored or transported.

The cover J is preferably hinged in an open- 60
ing in the top of the tub, as shown, and as is common, and secured on this cover by screws K is a plate G, having a downwardly-extending integral ring I, seated in a hole in said cover and forming a bearing for the rotating 65
dasher-shaft F, which carries a suitable dasher or agitator at its lower end, as will be understood. This shaft extends upward through the plate G, and has a bearing at its upper end in the stationary bearing H, which rises 70
from the cover J at the sides of the plate. On the shaft is secured a beveled driving-gear M, by which it is rotated, as will hereinafter appear.

D represents an adjustable bearing, which 75
is of approximate L shape, its foot preferably standing on the cover J and having a slot X, through which passes a screw I, taking into the cover, whereby this bearing can be adjusted. In Fig. 3 the foot of the 80
bearing D' does not rest upon the cover, but is turned down so as to bear thereon at its extremity, and a somewhat longer screw L' passes through the slot X', which is made for the purpose. In the preferred forms of this 85
bearing it has opposite its foot a horizontally-projecting shoulder N''', as seen in Figs. 1, 3, and 10.

L'' is a rock-shaft standing horizontally and journaled in suitable boxes in the upper 90
ends of the two bearings H and D, and M' is a beveled operating-gear journaled on this shaft or turning therewith, meshing with the driving-gear M, and adapted to be oscillated by a handle M''. The shoulder N'''' bears 95
against the rear face or back of this bevel-gear M' and holds it in mesh with the driving-gear M, and when the teeth on the gears become worn the bearing D is adjusted by resetting its screw in the slot in its foot. It 100
may occur, however, that the screw will slip in this slot, and in order to provide a positive adjustment of the bearing D over or upon the plate G, I make use of the following de-

vices, which are adjunctive to those above described. The bearing D has a depending lug N, which engages with a lip N', rising from the plate G, and a screw O passes
 5 through said lug and bears against the lip, by the adjustment of which screw the bearing will be positively and powerfully drawn inward over the plate, and the screw L may be thereafter tightened to make all secure against
 10 slipping. In Fig. 3 this lug and lip are smaller, (and the screw O is omitted,) as seen at *n* and *g*, and this construction serves merely to prevent the bearing D' slipping altogether out of place. In Fig. 9 the foot of the L-
 15 shaped bearing D'' is elongated at the back of its body and turned up into the lug N''', while the plate is turned up and over to form a downwardly-projecting lip N'', which engages the lug, the purpose thereof being the
 20 same as shown in Fig. 3. In Fig. 10, however, the lug is omitted, and a bolt 2 passes through the upturned lip N' of the plate and through the body of the bearing, (here lettered I',) and by tightening the nut 3 of such bolt
 25 the bearing will be drawn inward over the plate G. These various constructions of the lip, lug, and screw hold the bearing in place from turning axially around its adjusting-screw L or permit it to be drawn positively
 30 inward upon the plate G.

All parts of this machine are of suitable sizes and materials to effect their proper operation and give them suitable strength.

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

1. A tub, a clasp secured on the exterior thereof and having looped bands on its outer

face, a leg removably inserted through said bands from below, and a hook secured on the
 40 inner face of the leg and taking under the chine of the tub, the angle of the hook having a fin, as and for the purpose set forth.

2. A tub, a plate secured on its cover and having an upturned lip, a stationary bearing
 45 having two boxes, a dasher-shaft journaled through the plate and in one box of this bearing and having a driving-gear, a second bearing having a depending lug adjustably connected with said lip, this bearing also having
 50 a shoulder, a horizontal rock-shaft journaled in the second box of the stationary bearing and in the adjustable bearing, and an operating-gear on the rock-shaft meshing with
 55 said driving-gear, the shoulder bearing against the back of the operating-gear, as and for the purpose set forth.

3. A tub, a plate secured on its cover and having an upturned lip at one edge, a stationary bearing on said cover, a dasher-shaft
 60 journaled through the plate and in said bearing and having a driving-gear above the cover, an L-shaped bearing having its foot adjustably secured to the cover, threaded connections between said lip and bearing for drawing the lat-
 65 ter toward the shaft, a rock-shaft carried at the upper end of the stationary and adjustable bearings, and an operating-gear on this shaft meshing with the driving-gear, substantially
 70 as described.

In testimony whereof I have affixed my signature in presence of two witnesses.

JAMES H. TAYLOR.

Witnesses:

CHARLES E. KENT,
 A. J. BAUSCH.