

A. Quimby,
Washing Machine

N^o 20,369.

Patented May 25, 1858.

Fig. 1.

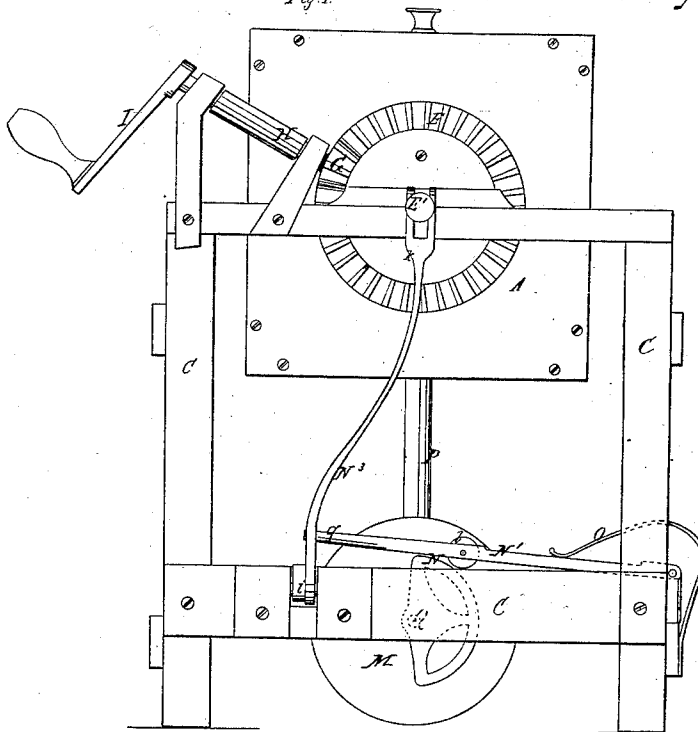
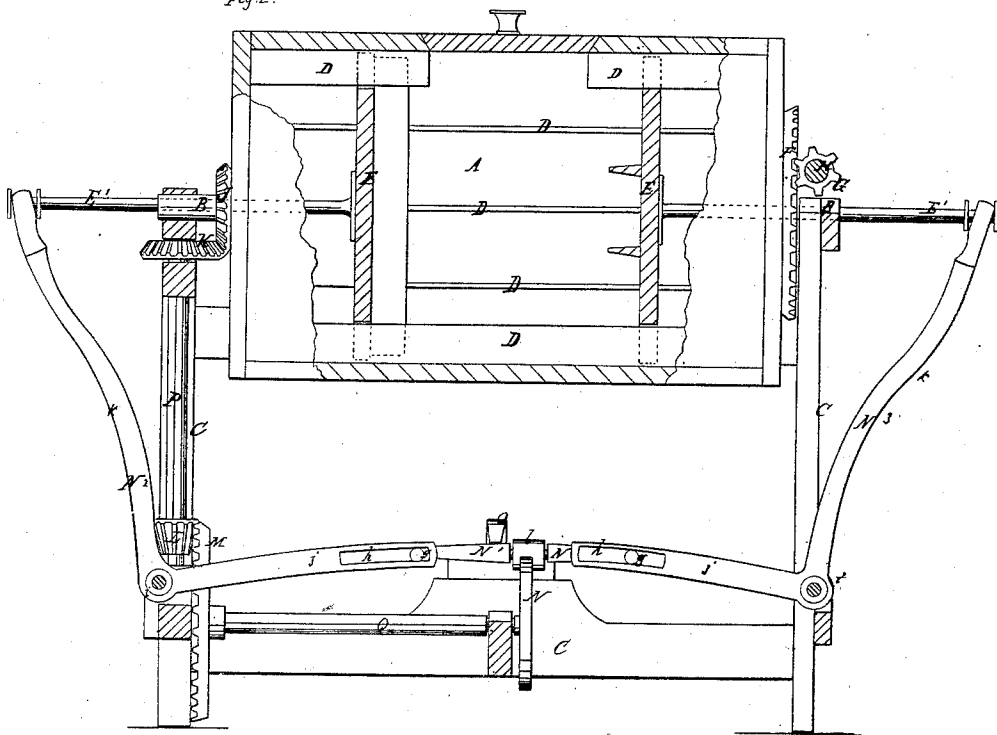


Fig. 2.



UNITED STATES PATENT OFFICE.

A. QUIMBY, OF TERRE HAUTE, INDIANA.

WASHING-MACHINE.

Specification of Letters Patent No. 20,369, dated May 25, 1858.

To all whom it may concern:

Be it known that I, A. QUIMBY, of Terre Haute, in the county of Vigo and State of Indiana, have invented a new and useful
5 Improvement in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this speci-
10 fication, in which—

Figure 1, is an end view of a washing machine constructed with my improvements. Fig. 2, is a vertical longitudinal section of the same.

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

The nature of my invention consists in the combination of the approximating plungers with the revolving tub, whereby
20 the clothes are subjected to a continuous rotary action and at intervals to a squeezing or expressing action and thereby thoroughly washed.

To enable others, skilled in the art, to
25 make and use my invention, I will proceed to describe its construction and operation.

A, is the wash tub hung so as to revolve on short journals B, B, in a frame C. This tub is furnished internally with ribs D, D, on
30 all its sides so that the clothes shall be lifted, carried around and dropped as the tub revolves and thus be agitated more thoroughly and subjected to a more perfect cleansing operation.

35 E, E, are two approximating plungers arranged within the tub so as to slide from its ends toward the center and vice-versa, being fitted snugly but loosely to the interior of said chamber as shown. These plungers
40 are ribbed on their approximating faces, so as to operate more effectively upon the clothes.

The rotary motion of the tub A, is produced by means of two bevel wheels F, G, the wheel F, being arranged fast on the
45 right end of the tub, and the other G, on a revolving shaft H, which is driven by a hand crank I, or otherwise.

The sliding motion of the plunger is produced by means of four bevel wheels J, K, L, M, a semi-circular plate N, and compound

levers N¹, N², N³, which are actuated by a spring O, said mechanism being constructed, arranged and operated as follows.

The bevel wheel J, is arranged fast on the
55 left end of the tub and K, fast on a vertical shaft P, which has its bearing on the frame B, and carries the bevel wheel L. The wheel L, gears into the bevel wheel M, which is made fast on a horizontal shaft Q, said
60 shaft also, having its bearing on the frame B, and carrying the segment plate N.

The forked spring lever N¹, O, is pivoted at f, to the frame B, and is connected by means of its forks g, g, and curved slots h, h,
65 to horizontal arms j, j, of auxiliary elbow levers N², N³, which are pivoted at their elbows i, i, to the frame B, and connected by their vertical slotted arms k, k, to the rods
70 E¹, E¹, of the plungers as shown.

From the foregoing description it will be evident that the mechanism which produces the rotary motion of the wash tub is combined with the mechanism which actuates the squeezing or expressing plungers, and
75 that the said two sets of mechanism are so disposed and arranged that the tub is allowed to perform a series of revolutions, owing to the segment plate N acting as a stop against the action spring until the full
80 length of its circumference has been passed over, before the plungers are brought into action or caused to approximate by the spring and compound lever arrangement.

The return of the plungers is effected by 85 means of the semi-circular plate coming in contact with a friction roller v of the forked lever N¹, and elevating said lever, as illustrated in Fig. 1, of the drawing.

What I claim as my invention and desire 90 to secure by Letters Patent, is—

The combination of the approximating plungers E, E, with the revolving tub A, whereby the clothes are subjected to a continuous rotary action and at intervals to a
95 squeezing or expressing action and thereby thoroughly washed; substantially as set forth.

ABRAHAM QUIMBY.

Witnesses:

D. S. DONALDSON,
H. D. SCOTT.