

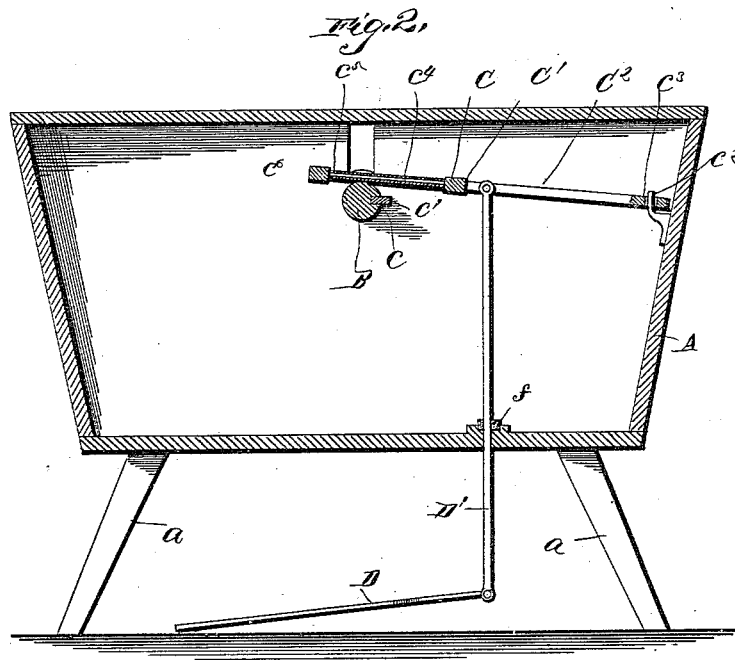
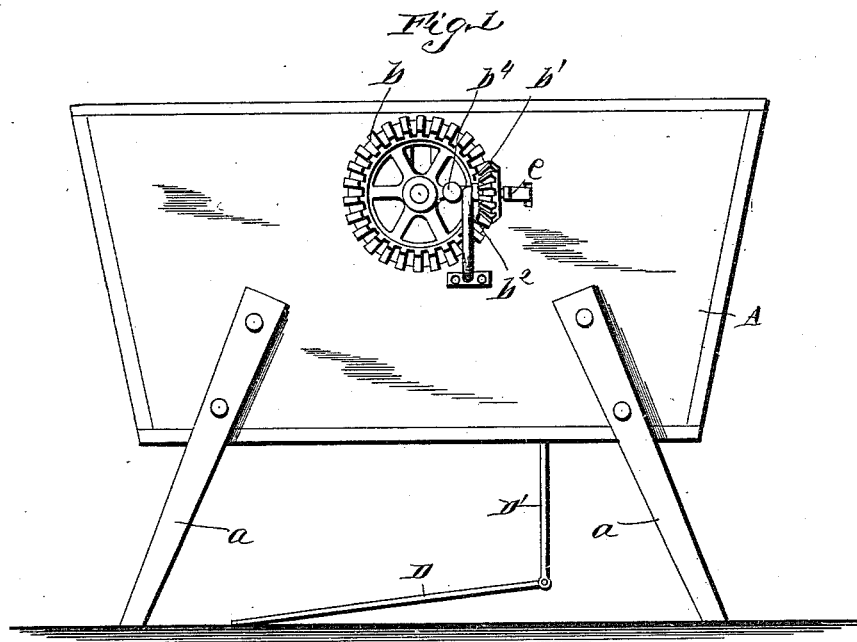
(No Model.)

2 Sheets—Sheet 1.

H. Q. HOOD.  
WASHING MACHINE.

No. 420,011.

Patented Jan. 21, 1890.



WITNESSES  
*C. L. Taylor*  
*Phillips*

INVENTOR  
*Hiram A. Hood*  
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Attorney

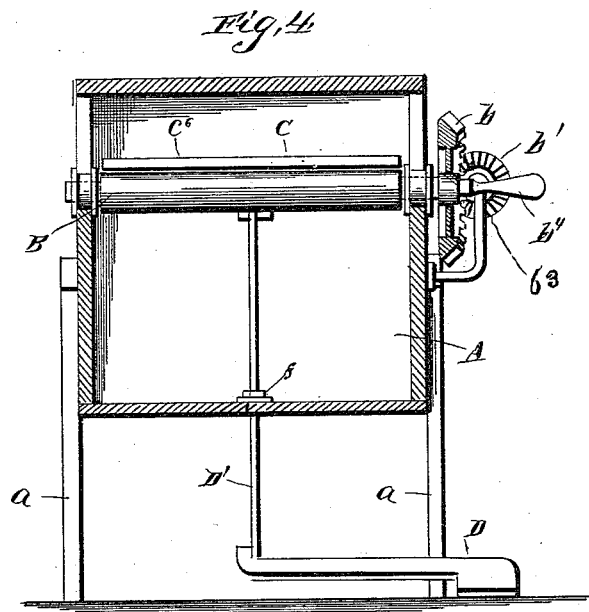
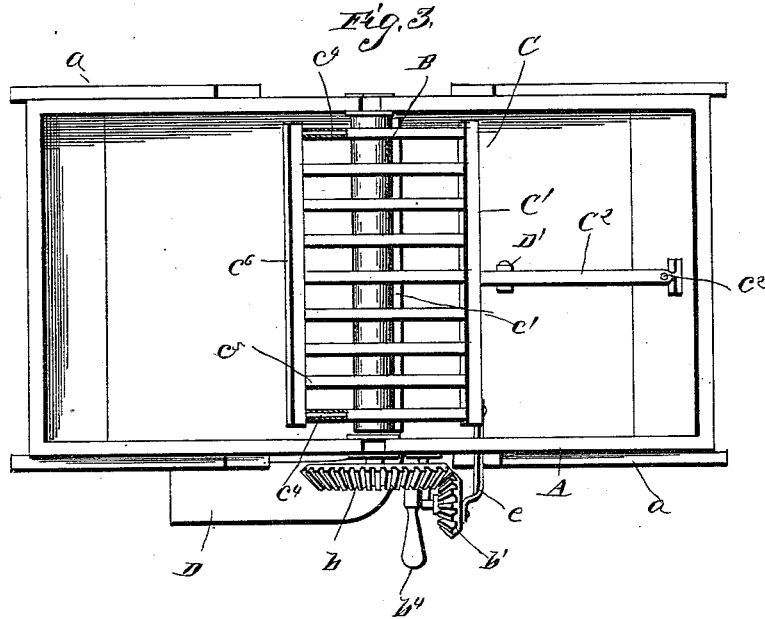
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WITNESSES  
*B. Taylor*  
*Phillips*

INVENTOR  
*Hiram Q. Hood,*  
by *E. W. Anderson,*  
Attorney

# UNITED STATES PATENT OFFICE.

HIRAM Q. HOOD, OF WELLINGTON, KANSAS, ASSIGNOR OF ONE-HALF TO  
M. V. B. HOLMES, OF SAME PLACE.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 420,011, dated January 21, 1890.

Application filed May 20, 1889. Serial No. 311,371. (No model.)

*To all whom it may concern:*

Be it known that I, HIRAM Q. HOOD, a citizen of the United States, and a resident of Wellington, in the county of Sumner and State of Kansas, have invented certain new and useful Improvements in Washing-Machines; and I do 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a side elevation. Fig. 2 is a vertical longitudinal section. Fig. 3 is a top plan view, and Fig. 4 is a vertical transverse section.

This invention relates to certain improvements in washing-machines; and it consists of the novel combination of parts and their construction, as will fully appear from the following description and accompanying illustration.

In the embodiment of my invention I employ a suitable box or receptacle A, to hold the clothes or fabrics for washing, said box being mounted upon legs or supports *aa*, having connection therewith through staples or other suitable means.

B is a roll or cylinder, whose shaft is journaled in the sides of the receptacle A and carries at one end, outside of the box, a large beveled pinion or gear wheel *b*, meshing with a corresponding small pinion or gear wheel *b'*, whose shaft *b<sup>2</sup>* is journaled in a box or casting *b<sup>3</sup>*, screwed or bolted to the side of the receptacle A. The wheel *b* has a suitable handle or crank *b<sup>4</sup>* for turning the same and with it the roller or cylinder B. The latter has in its periphery a longitudinal recess or slot *c*, into which is inserted a holding bar or cleat *c'*, adapted to attach the articles of clothing or the fabric to the roll or cylinder preparatory to washing.

C is a rubbing-frame, which consists of a transverse bar *C'*, having secured thereto, midway of its length, a rearward-extending

bar or arm *C<sup>2</sup>*, having a pivotal or swivel connection with the inner rear end of the receptacle A. This connection may be effected in various ways; but I prefer a pintle or pivot *c<sup>3</sup>*, offset from the receptacle A and entering an eye or aperture *c<sup>3</sup>* in the rear end of the extension or arm *C<sup>2</sup>* of the rubbing-frame. This frame C has applied to the forward side of its bar *C'* a series of spindles or short rods *c<sup>4</sup>*, which are armed with hard-rubber sleeves or cylinders *c<sup>5</sup>*, suitably secured to said spindles and designed for rubbing the fabrics or articles without undue friction or wearing action.

The outer ends of the spindles *c<sup>4</sup>* have secured upon them a bar *c<sup>6</sup>*, similar to the bar *C'*, serving to strengthen and brace the spindles in position. This rubbing-frame C rests upon the cylinder or roll B, or rather upon the fabrics or articles which in the practical working of the machine are carried around the cylinder or roll. The frame C has a link-connection *e* with the pinion or wheel *b'*, whereby it will be seen that as the clothes-carrying cylinder or roll B is revolved the rubbing-frame C simultaneously therewith will receive a laterally-reciprocating motion, thus rubbing the fabrics as they are wound upon the cylinder or roll to aid the washing or cleansing operation.

D is a treadle located where it can be conveniently pressed by the foot of the operator, and connected, by means of a rod *D'*, with the arm or extension *C<sup>2</sup>* of the rubbing-frame C, to enable the operator to apply pressure to said frame and thus hold it, with varying tension, according to requirement upon the fabrics or clothing being washed. Around the opening in the bottom of the receptacle A, through which the rod or connection *D'* passes, is secured, inside of the receptacle, a packing-tube *f*, to prevent the escape or leakage of water at that point.

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

The washing-machine having the clothes-carrying cylinder or roll provided with a han-

dle gear-wheel at one end of the box or receptacle, and the laterally-reciprocating rubbing-frame pivoted or swiveled to said receptacle and having a pressure-applying treadle  
5 and a link-connection with a pinion gearing with the handle-wheel, substantially as set forth.

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

HIRAM Q. HOOD.

Witnesses:

W. H. TUCKER,  
B. L. WESTLAKE.