

(No Model.)

H. F. SEAVER.
WASHING MACHINE.

No. 597,206.

Patented Jan. 11, 1898.

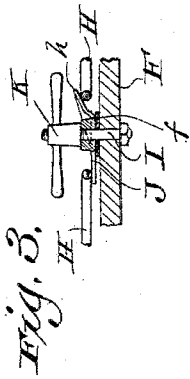


Fig. 2.

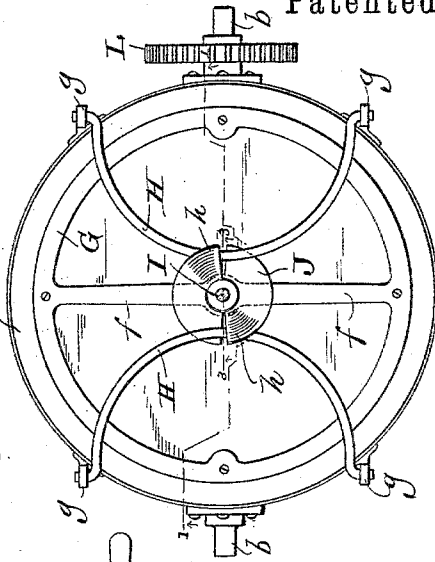
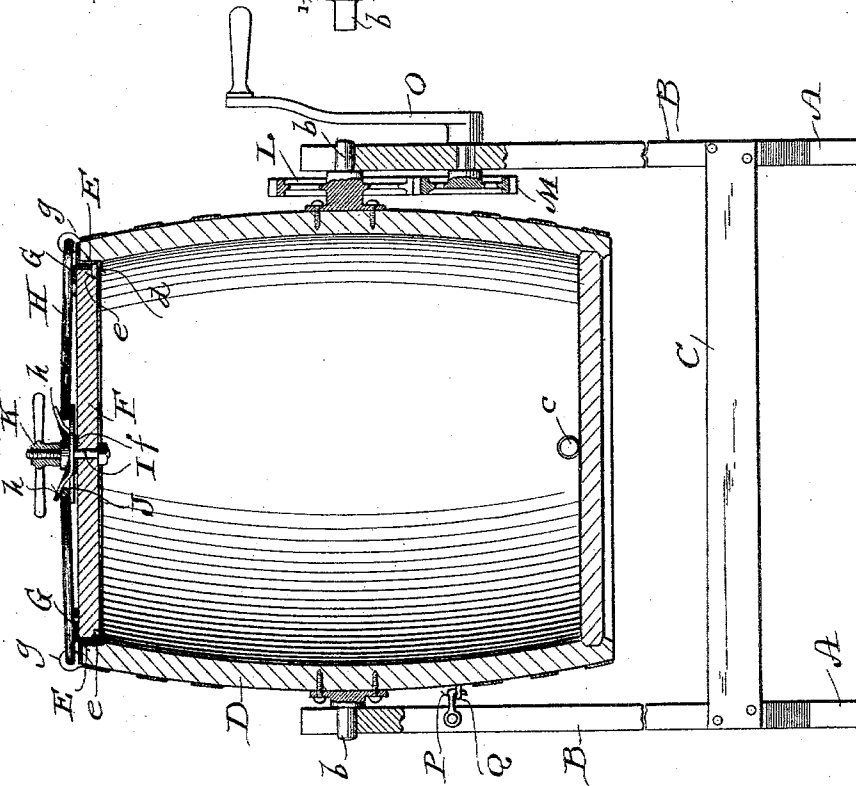


Fig. 1.



Witnesses:
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UNITED STATES PATENT OFFICE.

HENRY F. SEAVER, OF HUNTER, ILLINOIS, ASSIGNOR TO ELLICK J. SEAVER,
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WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 597,206, dated January 11, 1898.

Application filed May 17, 1897. Serial No. 636,931. (No model.)

To all whom it may concern:

Be it known that I, HENRY F. SEAVER, a citizen of the United States, and a resident of Hunter, in the county of Boone and State of Illinois, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide a simple economical washing-machine that is easy of operation to quickly and thoroughly cleanse clothes without rubbing or splashing. Hence it consists in certain peculiarities of construction and combination of parts hereinafter set forth with reference to the accompanying drawings and subsequently claimed.

Figure 1 of the drawings represents a vertical transverse section of my improved washing-machine, the plane of the section being indicated by line 1 1 in the succeeding figure; Fig. 2, a plan view of the barrel portion of said machine, and Fig. 3 a detail sectional view indicated by line 3 3 in the preceding figure.

Referring by letter to the drawings, A A represent a pair of parallel foot-pieces having standards B rising from their middle portions, these standards being joined by side bars C above said foot-pieces. The structure thus far described constitutes a supporting-frame, and the upper ends of the standards are centrally recessed to provide bearings for trunnions b, extending laterally from a barrel D, having a drain-orifice closed by a plug c. (Shown in Fig. 1.)

The barrel is preferably made from staves of well-seasoned wood, such as is best suited to the purpose, and it is well hooped, so as to be of great strength and durability. The upper edge of the barrel is faced with an out-turned flange of a non-corrosive metal ring E upon the inside of said barrel. This ring serves to increase the strength of the barrel and permits clamping of a ring thereon without detriment to the woodwork. At its lower end the ring has an inturned flange d, that constitutes a seat for a gasket e, of cork or other suitable material, made fast to the under part of the barrel-cover F, the latter being also bound with an angular ring G of non-corrosive metal, this ring being stiffened

by a cross-brace f, that extends across the top of said cover.

Metal ears g, made fast to the outside of the barrel, constitute bearings for a pair of bails H, and in their working positions these bails have impingement against the ring G, that binds the barrel-cover.

A bolt I extends up through the center of the barrel-cover and cross-brace f of ring G to engage a bail-clasp J and nut K, the latter being operative to exert pressure on the clasp and thus effect leverage on the bails that engage therewith.

The bail-clasp is made from a disk of metal having portions thereof struck up from radial slits therein to form lips h, and the bails are caught between said lips and adjacent portions of said clasp, after which the nut K is run down to obtain a strong clamping action on said bails, whereby the barrel-cover is firmly locked in place, compression of gasket e on the ring-flange d serving to prevent leak of steam or water from said barrel in any position of the same.

While the barrel may be revolved by attaching a crank to one of its trunnions, it is preferable to provide one of these trunnions with a spur-wheel L and mesh the latter with a pinion M on a spindle N, that turns in one of the standards B of the supporting-frame and has a crank O connected thereto, although a belt-pulley or other device for communicating power may be substituted for the crank.

The barrel being perfectly smooth upon the inside there is no wear on the articles being washed, the agitation of these articles in said barrel taking the place of rubbing, and the barrel-cover, with its compressible waterproof gasket, being clamped in place prevents leak or splashing from the aforesaid barrel.

There is no necessity of preliminary boiling of the articles to be washed, their agitation for a few minutes in hot suds in the barrel being sufficient to effect the removal of dirt, whether said articles be of fine or coarse texture. The rinsing is also done in the barrel, and the cleansed articles may be run through a wringer attached to said barrel after the cover is removed, a hook P on one of the supporting-frame standards being engaged with

an eye Q on the aforesaid barrel to hold the latter against rotation.

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

A washing-machine comprising a supporting-frame, a barrel rotative on the frame, a non-corrosive metal ring at the upper end of the barrel inside the same provided with a
10 lower inturned flange and an upper outturned flange, the latter constituting a facing for the upper edge of said barrel; a barrel-cover that fits inside said ring and is provided with a compressible waterproof gasket that comes

to rest on the lower ring-flange, a pair of bails 15 having their bearings on the barrel, a bail-clasp having central pivotal connection with the barrel-cover, and a clamp-nut exertive against the bail-clasp to effect leverage of the bails on said barrel-cover.

In testimony that I claim the foregoing I have hereunto set my hand, at Beloit, in the county of Rock and State of Wisconsin, in
20 the presence of two witnesses.

HENRY F. SEAVER.

Witnesses:

JOHN C. ROOD,

WILLIAM FOLLAN.