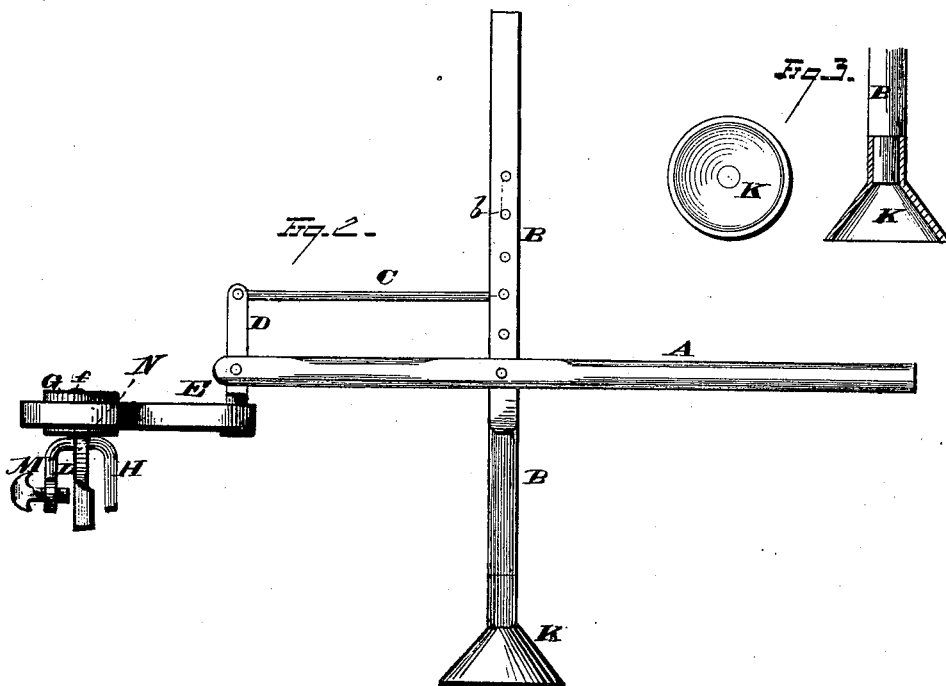
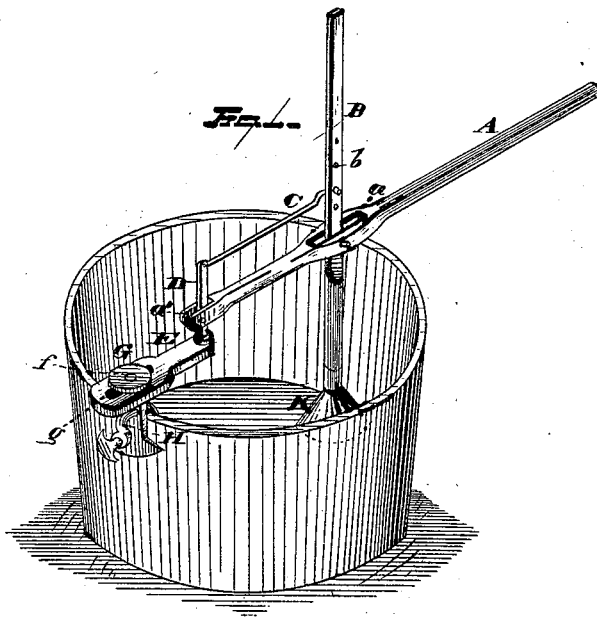


C. A. DODGE.
Clamps for Washing-Machines.

No. 199,358.

Patented Jan. 22, 1878.



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CYRUS A. DODGE, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN CLAMPS FOR WASHING-MACHINES.

Specification forming part of Letters Patent No. **199,358**, dated January 22, 1878; application filed May 1, 1877.

To all whom it may concern:

Be it known that I, CYRUS A. DODGE, of Chicago, in the county of Cook and State of Illinois, have 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to certain improvements in pounder washing-machines; and is designed to provide a simple clamping mechanism, by which the same may be readily connected to, and disconnected from, a tub or other suitable vessel.

My invention consists in providing the lower extension of the upright or standard which supports the pounder washing-machine, and which is adapted to embrace one side of the tub, with an inverted U-shaped clamp, which locks the machine to the tub by a set-screw. This clamp passes through an eye in the body of the said standard; and while one of its parallel branches is adapted to embrace the side of the tub opposite to that side which is embraced by the lower extension of the standard, the other parallel branch is provided with a set-screw, which latter has end bearings against the said standard extension. By adjusting this set-screw the clamping apparatus is connected with, or made free from, the tub, together with the pounder washing-machine proper.

Referring to the drawings, Figure 1 is a view, in perspective, of a tub and a pounder washing-machine, the two connected together by my peculiar clamp. Fig. 2 is a view, in side elevation, of the pounder machine detached from the tub and provided with the said clamp. Fig. 3 shows detail views of the pounder-bowl.

The lever-handle A is provided with a slot, *a*, through which passes the pounder-shaft B, and the two are suitably engaged by a pin.

To the lower extremity of this shaft B is secured the pounder-bowl K.

The graded series of slots *b* allows the horizontal guide-rod C to be connected with shaft B, while the opposite extremity of said rod is engaged with the upright D. This upright acts as a fulcrum for the lever-handle, and the two are connected together, as shown at *a'*.

Through the body extremity of the swinging arm, opposite to that of its connection with the upright D, passes the standard N, and which secures the swinging arm to it by means of the washer G and screw *f*.

The foregoing description is intended only as a brief reference to the several parts of the apparatus shown in the drawings, and as preliminary to the description of the subject-matter of this application, which latter consists only in the peculiar clamp H. This clamp H is made of any suitable material, and is in the form of an inverted U. It is supported in a suitable eye formed in the standard N, and is provided with any suitable set-screw, M, for engaging it to the side of the tub. The lower extension L of the standard N is adapted to embrace the outer vertical side of a wash-tub, and have full face-bearing against the same, while one of the two parallel branches of the inverted U-shaped clamp has similar face-bearing against the inner vertical side of the tub.

Through the body of that parallel branch of the clamp opposite to the one thus brought in horizontal bearing against the side of the tub passes the set-screw M. This latter is adapted to have end bearing against the outer face of the lower extension L; and, by means of applied force against the said extension, it locks the clamp and the standard N to the tub. In this manner, by adjusting the said set-screw, the clamping apparatus, together with the pounder washing-machine, may be securely connected to the washing-tub, and, when desired, as readily disengaged therefrom.

It is evident that the peculiar pounder ma-

chine herein set forth is not material to my invention, and the same may be completely changed, or an entirely different machine be substituted therefor, without affecting the invention.

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

In a pounder washing-machine, the combination, with an inverted U-shaped clamp, of

an upright for supporting the operative parts, provided with a lower extension, and adapted to be clamped against the side of the tub between the legs of the said clamp, substantially as set forth.

CYRUS A. DODGE.

Attest:

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W. B. CROSE, M. D.