

(No Model.)

C. NELSON.

WASHING MACHINE.

No. 305,324.

Patented Sept. 16, 1884.

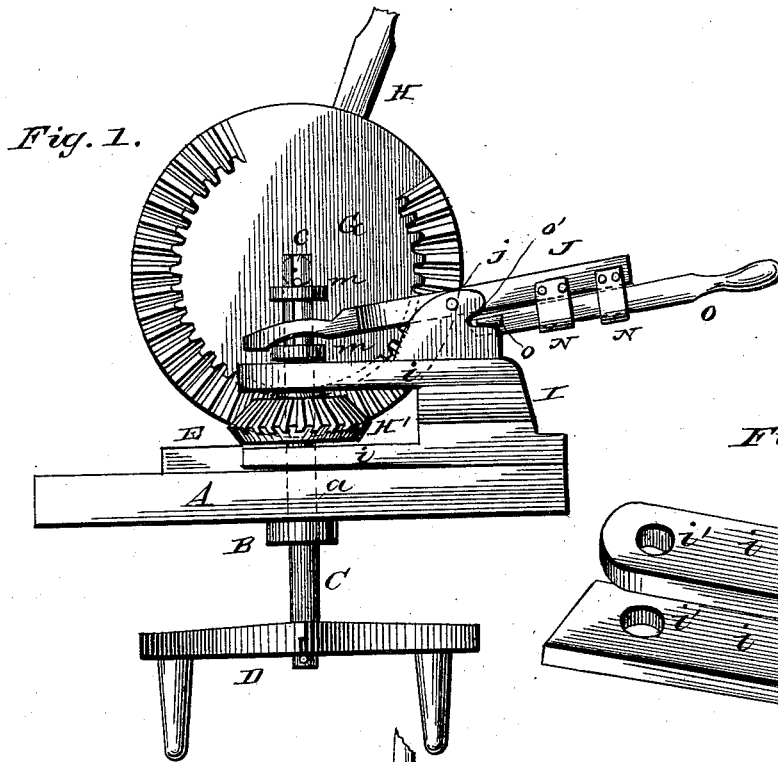


Fig. 3.

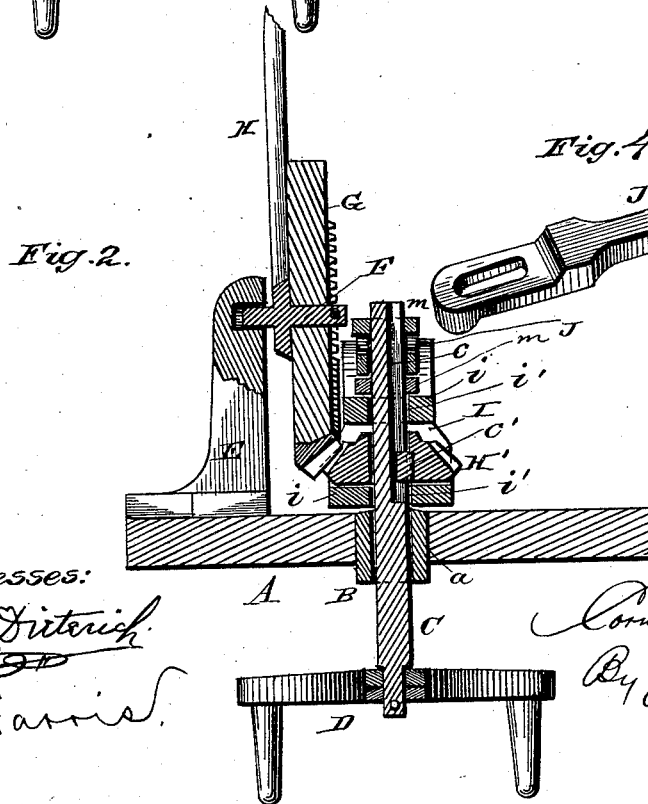
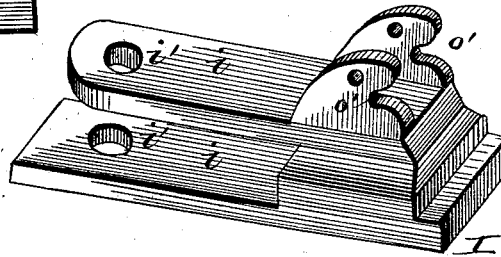
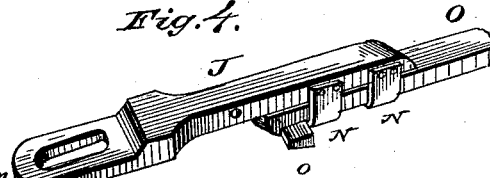


Fig. 4.



Witnesses:

Phil L. Dietrich
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UNITED STATES PATENT OFFICE.

CORNELIOUS NELSON, OF WINFIELD, KANSAS, ASSIGNOR TO ANDREW R. WILSON.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 305,324, dated September 16, 1884.

Application filed September 18, 1883. (No model.)

To all whom it may concern:

Be it known that I, CORNELIOUS NELSON, of Winfield, in the county of Cowley and State of Kansas, 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 the same.

My invention relates to washing-machines, the object being to provide simple and durable means for raising and lowering the rubber of the machine, and for securing the same against vertical movement while the machine is in operation.

The invention consists in the improved construction and combinations of parts hereinafter fully described, and pointed out in the claims.

In the drawings, Figure 1 represents the cover and rubber of a washing-machine having my improvements applied thereto. Fig. 2 is a vertical section of the same, and Figs. 3 and 4 represent parts in detail.

A represents the cover of the box in which the clothes are to be washed. Said cover is provided with a central opening, *a*, to receive a perforated block, B, through which the shaft C of the rubber D passes.

E represents a bracket or standard secured to the cover or base A, and provided integrally with a journal or spindle, F, upon which is mounted a gear-wheel, G, which latter is provided with an operating-lever, H, and is adapted to mesh with a horizontal gear-wheel, H', mounted upon the shaft C of the rubber, between the parallel arms *i i* of a frame, I, secured upon the cover, and provided with openings *i' i'*, through which said shaft passes. This shaft C is formed with a vertical groove, *c*, adapted to receive a key or pin, *c'*, projecting from the wheel H', to prevent the movement of the latter when the shaft is raised or lowered.

The upper side of the frame I is provided with upwardly-projecting perforated lugs or ears adapted to receive the pivotal pin *j* of a lever, J. The inner end of this lever is slotted to receive the upper end of the shaft C, and is retained upon the latter by means of washers *m m*, thumb-screws, or other suitable means. The opposite end of the lever J is provided with keepers or guides N N, within which is

secured a sliding rod, O, provided at its inner end with a cross bar or catch, *o*, adapted to engage notches *o'*, formed on the adjacent end of the frame I.

The rubber is designed to be oscillated by means of the lever H and gear-wheels G and H', and it is secured against upward movement by engaging the catch-rod O with the frame I. When it is desired to raise the rubber-shaft and rubber, the catch-rod is disengaged from the frame and depressed.

It will be apparent that many slight alterations in the details of form and construction may be resorted to without departing from the spirit of my invention; hence I do not limit myself to the precise construction herein described, but reserve to myself the right to make all such changes as may properly fall within the scope of my invention.

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

1. The combination of the cover, the rubber-shaft projecting through the same, provided with collars *m m*, a frame having horizontal parallel arms, a horizontal gear-wheel retained upon the shaft and between these arms, and connected to the shaft, substantially as described, a vertical gear-wheel, and a lever fulcrumed horizontally on said frame, and having its end loosely engaging the shaft between the collars *m m*, substantially as set forth.

2. The combination of the cover, the rubber shaft extending through the same, and having projections, a frame having horizontal parallel arms, and formed with the notches, a horizontal gear-wheel retained upon the shaft and between these arms, a vertical gear-wheel, a lever having an end engaging the shaft between the projections, and a sliding catch-rod retained on the other end of said lever, and provided with projections to engage the notches in the frame, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

CORNELIOUS NELSON.

Witnesses:

S. D. PRYOR,
JNO. D. PRYOR.