

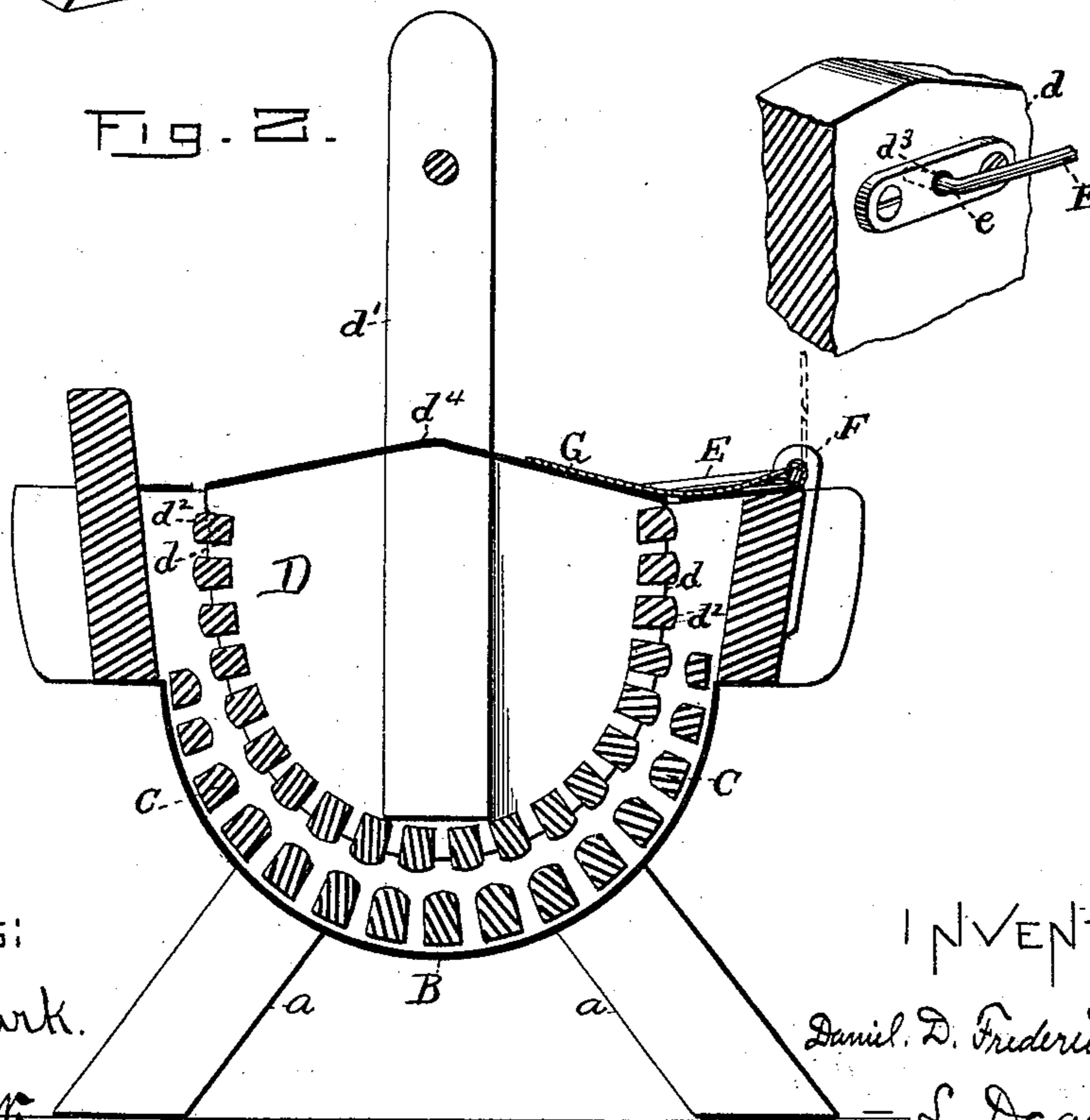
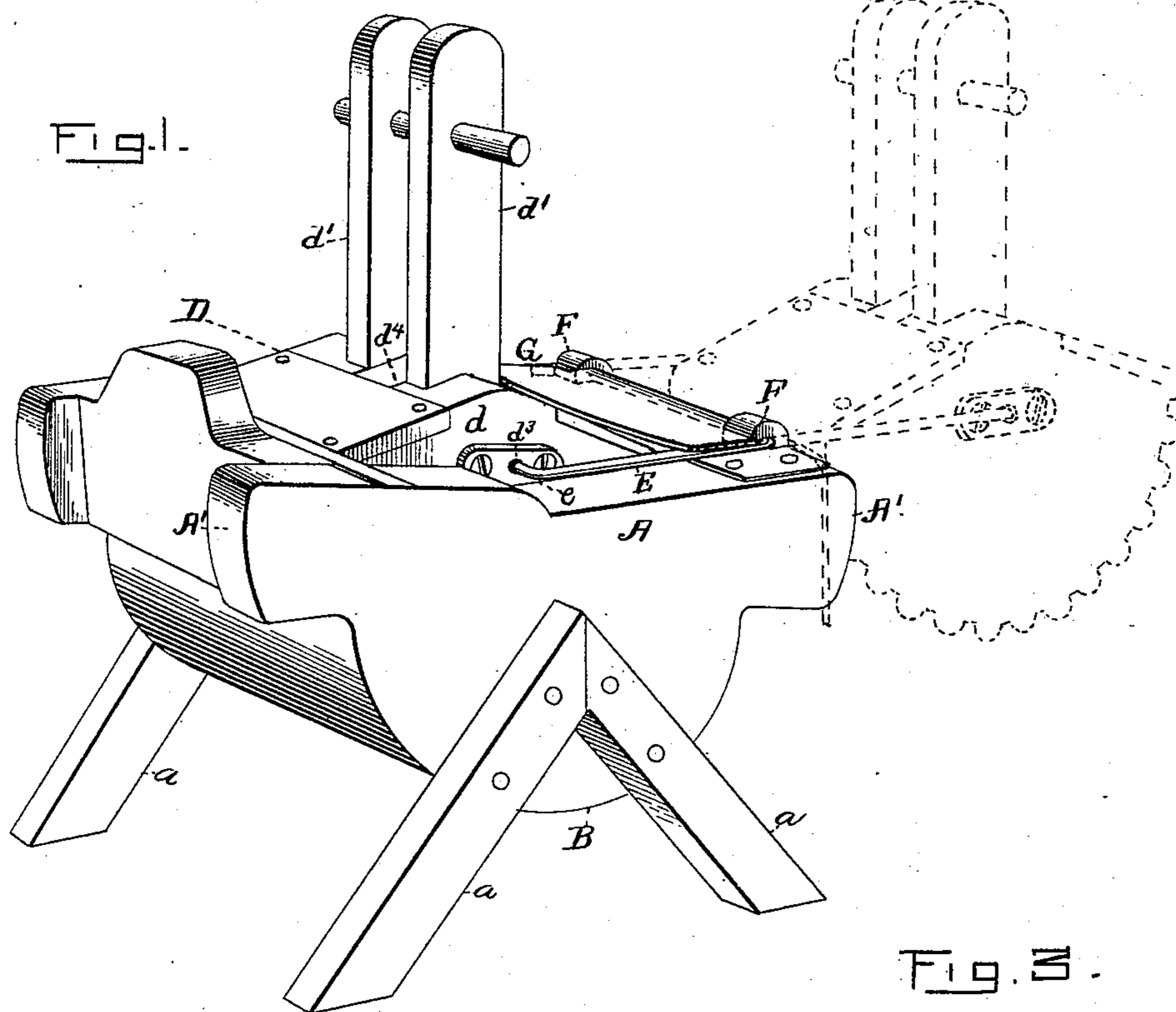
(No Model.)

D. D. FREDERICKS.

WASHING MACHINE.

No. 337,144.

Patented Mar. 2, 1886.



WITNESSES:
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UNITED STATES PATENT OFFICE.

DANIEL D. FREDERICKS, OF ROSSVILLE, INDIANA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 337,144, dated March 2, 1886.

Application filed August 11, 1885. Serial No. 174,091. (No model.)

To all whom it may concern:

Be it known that I, DANIEL D. FREDERICKS, a citizen of the United States, residing at Rossville, in the county of Clinton and State of Indiana, have invented certain new and useful Improvements in Washing-Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

Figure 1 is a perspective view of the present device. Fig. 2 is a longitudinally-vertical central sectional view. Fig. 3 is a detail view of the journal and the wire hinge.

This device belongs to that class of washing-machines known as "reciprocating rubbers;" and the novelty consists in the provision made for the protection of the person operating the machine from the steam odor or vapor arising from the machine when in use, in the construction and combination of the several parts of the machine, and in the machine as a whole, all as will now be more fully set out and explained.

In the accompanying drawings, A denotes the tub or body of the machine, which is supported on legs *a*. The curved under side or bottom is made of sheet metal, preferably of tin or zinc B, the sides, A', of wood. On the inside of the tub A is the usual curved grating or rack, C. The rubber D is semicircular in cross-section, and is made of side pieces, *d*, to which are secured the uprights *d'*, by means of which the rubber is oscillated or raised and lowered on its journals *e*. The curved edge of the rubber has the usual slats or rack, *d*². The journals *e* are formed by the ends of the bent wire E. This wire is secured by eyes or staple F to the rear edge of the tub, so that its projecting ends on each side of the tub have free motion when it is desired to raise or lower the rubber. The ends *e* of this wire E are properly bent to fit into the seat in the socket-pieces *d*³, which are fastened to the rubber on either side. Thus the rubber may be swung or oscillated, or raised or lowered.

The rubber is made to fit into the tub as

snugly as possible, and on the upper side or top of the rubber is attached the sheet-metal cover *d*⁴. Thus while the expense of hinged lid, in one or several pieces, is avoided there will be no escape of steam or vapor from the tub, except at a portion of the sides and at the front edge, since the top of the rubber is closed, and at the rear of the tub is provided an apron or guard, G. This apron can at its end be attached to the wire E, between the staples which hold it to the edge of the tub, and then fitted to lap over the space between the rubber and the edge of the tub at the rear portion; or it may be in any other convenient way attached at one edge to the tub, so that it shall cover the spaces aforesaid. In either instance it will act as a guard to prevent the escape of steam odor or vapor from this part of the tub. This apron or guard may be made of india-rubber, oil-cloth, sheet metal, or any substance that may be desired.

It will thus be seen that the present device is very simple in structure, and not liable to get out of order, and that by it many objections (heretofore raised against this particular class of devices) are obviated.

Having now described my invention, what I consider new, and wish to secure by Letters Patent, is—

1. In a washing-machine, the combination of the tub A and rubber D with the apron G, substantially in the manner and for the purpose set forth.

2. In a washing-machine, as described, the rubber D, its upper part covered with suitable material, combined with its journal-wire E *e*, the tub A, and the apron G, whereby there is no escape of odor or steam at the rear of the machine, substantially as described.

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

DANIEL D. FREDERICKS.

Witnesses:

MEL. B. WHITE,

T. A. CROSE.