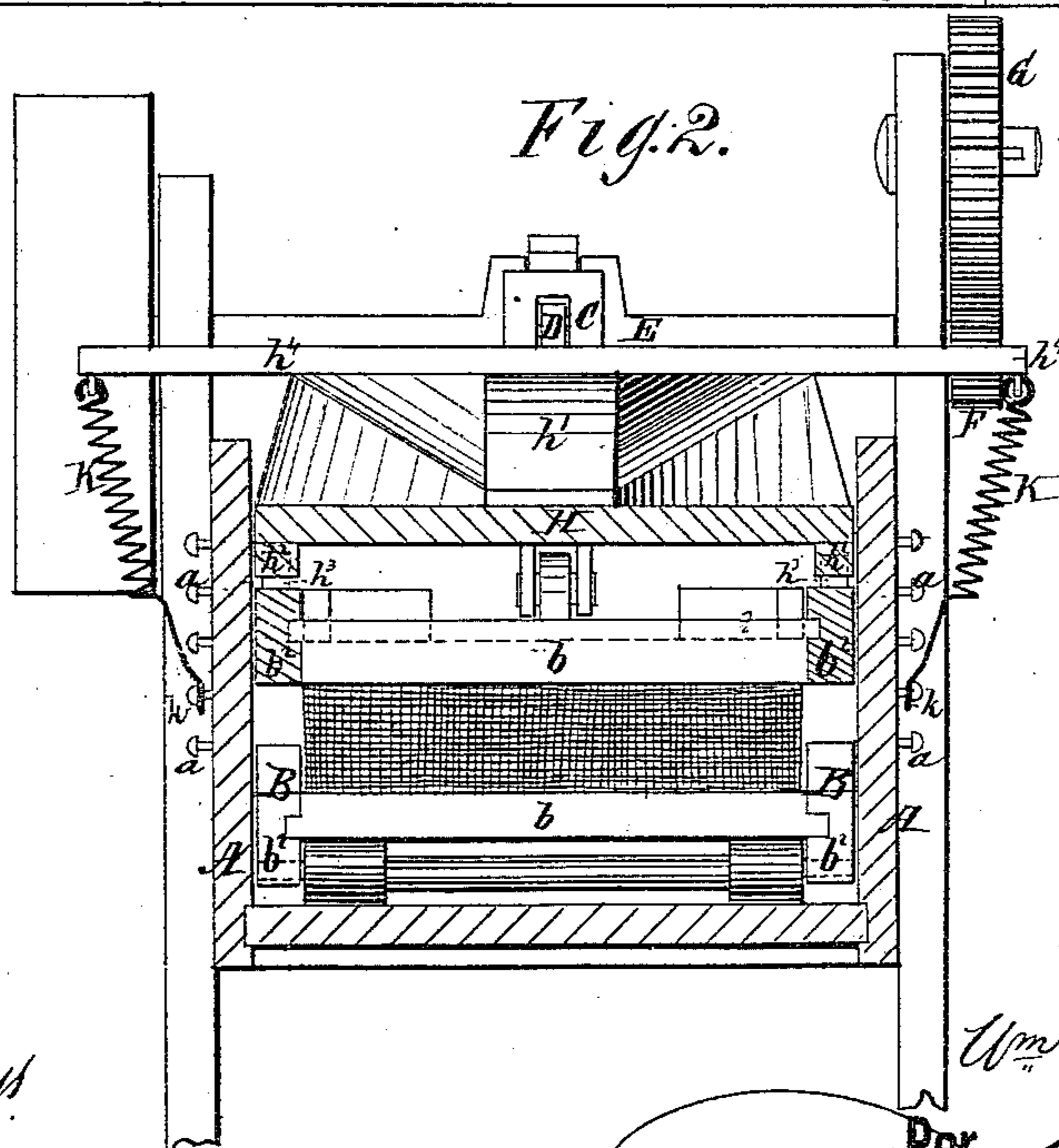
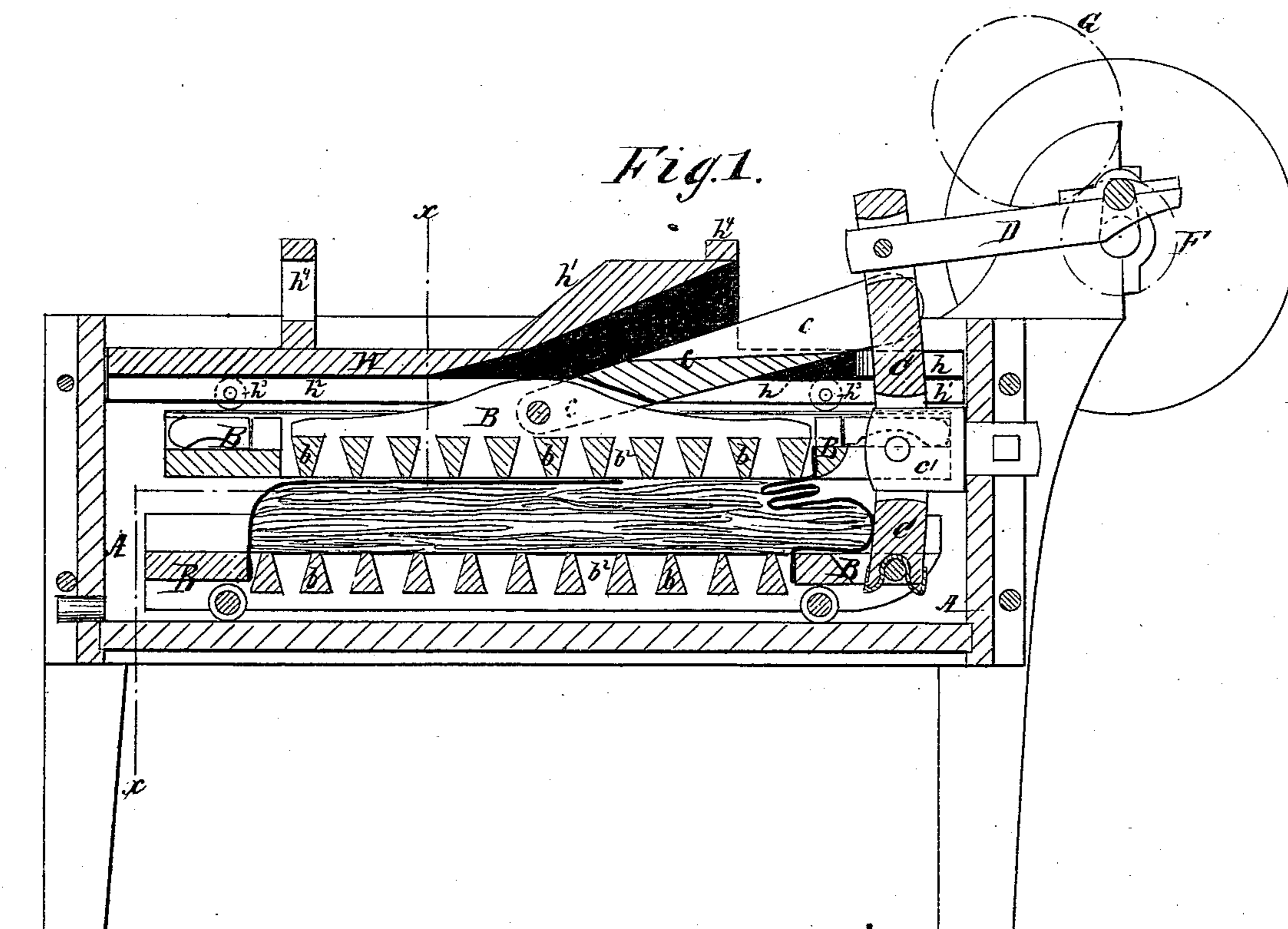


W. G. JEFFERY.
Washing-Machines.

No. 148,958.

Patented March 24, 1874.



Witnesses:
G. Mather
John C. Kemou

Inventor:
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Per

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UNITED STATES PATENT OFFICE.

WILLIAM G. JEFFERY, OF BEL AIR, ASSIGNOR TO JAMES E. CONNOLLY,
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IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **148,958**, dated March 24, 1874; application filed
November 12, 1873.

To all whom it may concern:

Be it known that I, WILLIAM G. JEFFERY, of Bel Air, in the county of Harford and State of Maryland, have invented a new and Improved Washing-Machine; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 is a longitudinal vertical section. Fig. 2 is a cross-section in line $x x$ of Fig. 1.

The invention relates particularly to the washing-machine patented by James E. Connolly, March 12, 1872.

It will first be fully described, and then pointed out in the claim.

A is the suds-box of a washing-machine, in which are two wash-boards, B B, both made to reciprocate at the same time, but in opposite directions by a pivoted lever, C, straps c' c, pitman D, crank-shaft E, and gears F G. The cross-slats b of wash-board may be separately inserted in the side bars b^2 that rise above the slats, or may be formed solid with the boards by simply grooving the latter. It is necessary to hold these wash-boards to the clothes, and this I do by means of the cover. H is the cover, which has a slot, h , to allow it to drop over the lever C, upper strap c , and pitman D, and a hollow cap, h^1 , which prevents, to a great extent, the escape of water or suds, but allows the strap c to move freely thereunder. This cover H fits into the box A, and rests upon the upper wash-board B, being provided with side bars h^2 , on which are subjacent friction-rolls h^3 , that come in contact with the top of wash-board. It is also provided

with cross-bars $h^4 h^4$, from the ends of which depend springs K, each having at the lower end an eye, k , that may be passed over one of a series of studs, a^1 , on the sides of suds-box A. By this construction of cover, it may be readily made to conform to the thickness of clothes between the wash-boards. The side bars b^2 projecting above upper roll, and the side bars h^2 projecting below cover, allow an intermediate open space, into which the suds may pass from the upper wash-board. This simplifies my former machine, and is observed in practice to work very smoothly and easily, while its work is thorough, eradicating the dirt from the garments entirely and with great uniformity.

I am aware that a yielding roller has been used in connection with a hinged cover, from which it depends, to press a reciprocating rubber down upon the clothes beneath it; hence I make no broad claim to the idea of holding the rubber to its work with a yielding pressure; but

Having described my invention, what I do claim is—

In a washing-machine, the cover H, fitted to slide up and down within the suds-box, and provided with cross-bars $h^4 h^4$, and springs K depending therefrom, the latter having eyes at their free ends, in combination with the two reversely-reciprocating wash-boards or rubbers B B, and the series of studs a^1 , as and for the purpose specified.

WILLIAM G. JEFFERY.

Witnesses:

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