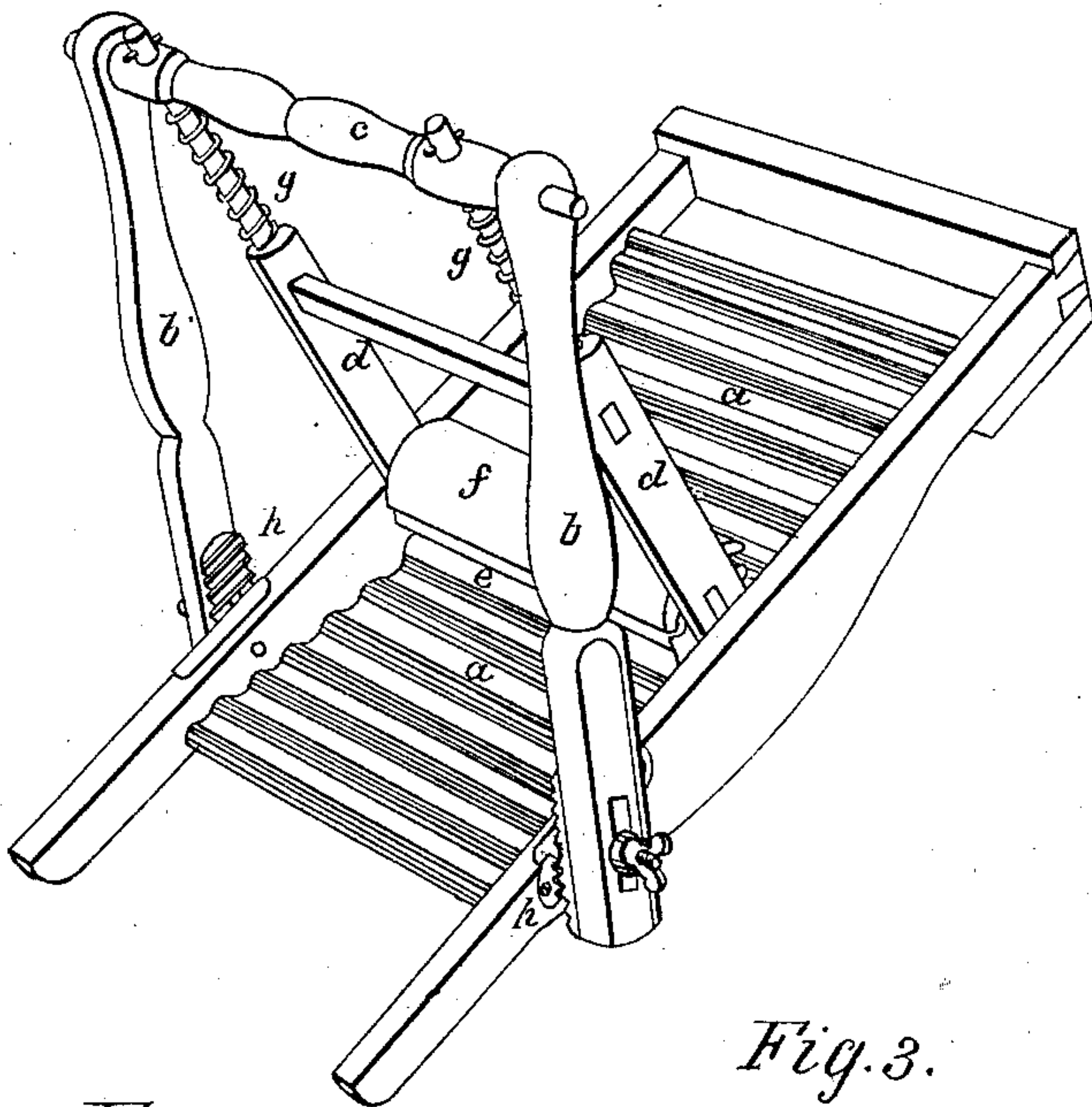


*S. V. Hall,  
Wash-Board.*

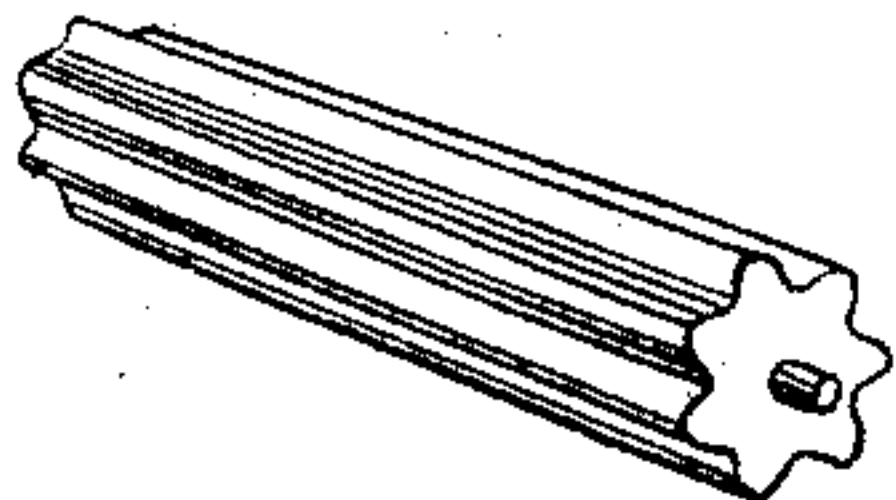
*N<sup>o</sup> 78,593.*

*Patented June 2, 1868.*

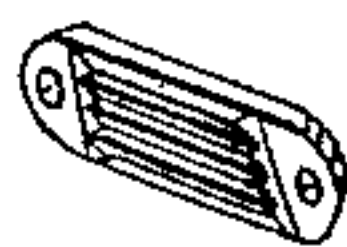
*Fig. 1.*



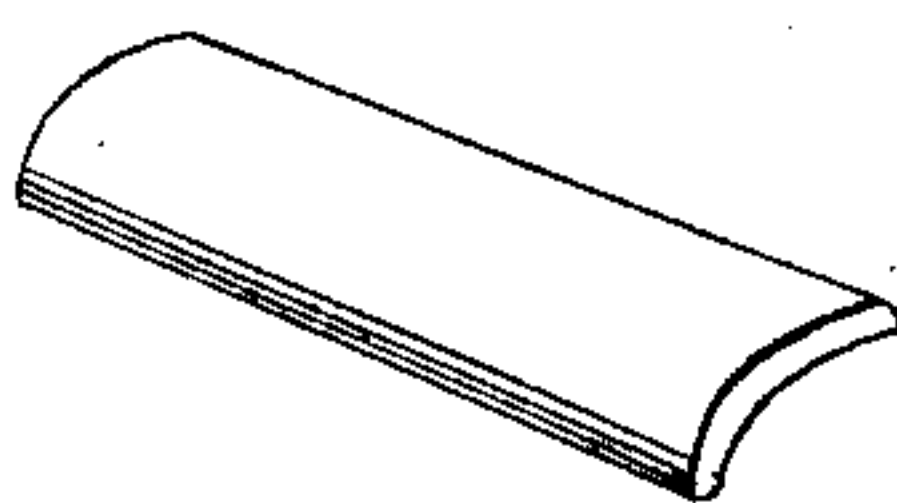
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



*Witnesses*

*Geo. B. Jones*

*E. H. Duell.*

*Inventor*

*Sanford V. Hall*

# United States Patent Office.

SANFORD V. HALL, OF MCGRAWVILLE, NEW YORK.

*Letters Patent No. 78,593, dated June 2, 1868.*

## IMPROVED WASHING-MACHINE.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, SANFORD V. HALL, of McGrawville, Cortland county, State of New York, have invented a new and useful Improvement in Washing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure I is a perspective view,

Figure II a fluted roller,

Figure III a grooved side-gauge, and

Figure IV a cap-piece.

To enable others to make and use my invention, I will proceed to describe its construction and operation.

I construct my washing-machine in any of the known forms, having in the bottom a rub-board, *a*, fluted and curved, and to the sides of the rub-board are attached two standards, *b b*, with a horizontal cross-beam or roller, *c*. To this roller is attached the swinging frame *d d*, and to the lower end of which swinging frame is attached the fluted roller *E*, as exhibited by Fig. II.

Over the roller I place the cap-piece *f*, Fig. IV, with lower side curved, the object and use of which are to prevent the water from being thrown upward by the roller when in motion.

Connected with the swinging frame are two spiral springs, *g g*, made of wire or other suitable material, extending from the roller *c* nearly to the centre of the swinging frame, the object being to regulate the pressure of the fluted roller upon the rub-board.

The standards *b b* are screwed to the machine, as shown at *h h*.

For the purpose of lowering or elevating the standards *b b*, I employ a metal gauge, *h h*, Fig. III, which is attached to the machine, and a corresponding gauge is attached to each standard, and, by means of a slot in the standards *b b*, they are raised or lowered as desired.

By means of the spiral springs *g g*, the swinging frame and the roller are moved backwards and forwards with greater ease, and the grooved side-gauges *h h* allow the machine to be adjusted, so as to wash the largest or smallest article of clothing without inconvenience.

What I claim, and desire to secure by Letters Patent, is—

The spiral springs *g g*, the grooved side-gauges *h h*, and the cap-piece *f*, in combination with the fluted roller *c* and rub-board *a*, all constructed and operated substantially as described.

SANFORD V. HALL.

Witnesses:

M. G. SMITH,

SAMUEL BINGHAM.