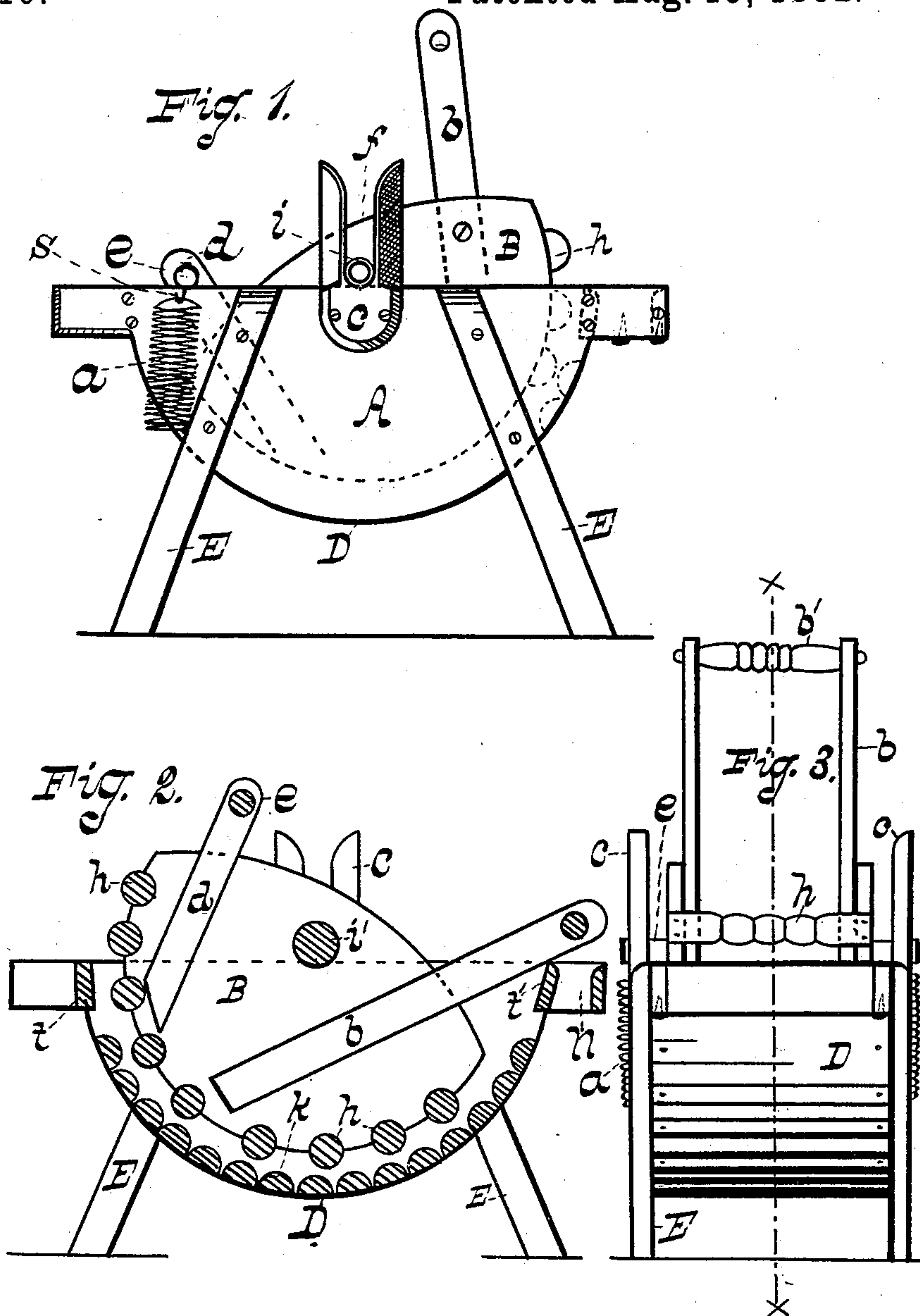


(Model.)

W. H. NEFF.  
WASHING MACHINE.

No. 262.610.

Patented Aug. 15, 1882.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

WILLIAM H. NEFF, OF COWEN, INDIANA.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 262,610, dated August 15, 1882.

Application filed March 21, 1882. (Model.)

*To all whom it may concern:*

Be it known that I, WILLIAM H. NEFF, a citizen of the United States, residing at Cowen, in the county of Delaware and State of Indiana, have invented a new and useful Washing-Machine, of which the following is a specification.

My invention relates to improvements in washing-machines; and the objects of my improvements are, first, to provide a washing-machine with a spiral spring attached to a vibrating rubber in such a way so that the pressure is regulated according to the amount of clothes under the rubber, and to have the spring to aid in operating. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation. Fig. 2 is a vertical section of the same with the handle pressed down, and Fig. 3 is an end view of Fig. 1.

Similar letters refer to similar parts throughout the several views.

The sides A are elevated on four legs, E, and held a proper distance apart by the cross-bars *tt'* and the metallic bottom D. The said bottom D is made in a convex shape and connected at the bar *t*, then turning downward and upward to the bar *t'* and box *n*, as shown in Figs. 1 and 2. On each of the sides A are secured the bearings *c*, which are made of metal and provided with slots *f* for receiving the ends of the journal *i'*. (See Figs. 1, 2, and 3.) These ends are provided with a metallic ferrule, *i*. (Shown in Fig. 1.) The said journal *i'* passes through two side boards, B. Between and attached to the said side boards, B, are the handles *b* and arms *d*, as shown in Figs. 2 and 3,

the said boards being more permanently held by the rounds *b'* and *e*. The round *e* has a hook, S, attached to each end, as shown in Fig. 1. In this hook the springs *a* are removably attached, (shown in Figs. 1 and 3,) the other ends being attached to the sides A, as shown in Fig. 1. The corrugated rubbers *k* are secured to the inside of the metallic bottom D. (Shown in Fig. 2.) Similar corrugated rubbers, *h*, are attached to the vibrating rubber-frame or side boards, B, as shown in all the figures. The vibrating frame B hangs on its journal *i'*, so that the rubbers will be about one-fourth of an inch apart.

The fabrics to be washed are placed between the rubbers *h* and *k*. This will raise the ends of the journal in the slots *f*, so that when the handle is pressed down, as shown in Fig. 2, the strength of the springs *a* causes the rubbers to rub hard on the clothes, and when the pressure is taken off of the handles the springs aid in bringing them again in an upright position. It will therefore be seen that the important part of my invention is the location of the springs, metallic bearings, and corrugated rubbers. Therefore,

Having thus described my invention, I claim—

The arms *d*, having a brace, *e*, in each end of which are secured the hooks S, in combination with the reciprocating rubber, the springs, and the suds-box, all arranged as shown and described, and for the purpose set forth.

WILLIAM HARVY NEFF.

Witnesses:

JOHN J. LOCKWOOD,

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