

E. HOYT.
Washing-Machines.

No. 135,808.

Patented Feb. 11, 1873.

Fig. 1.

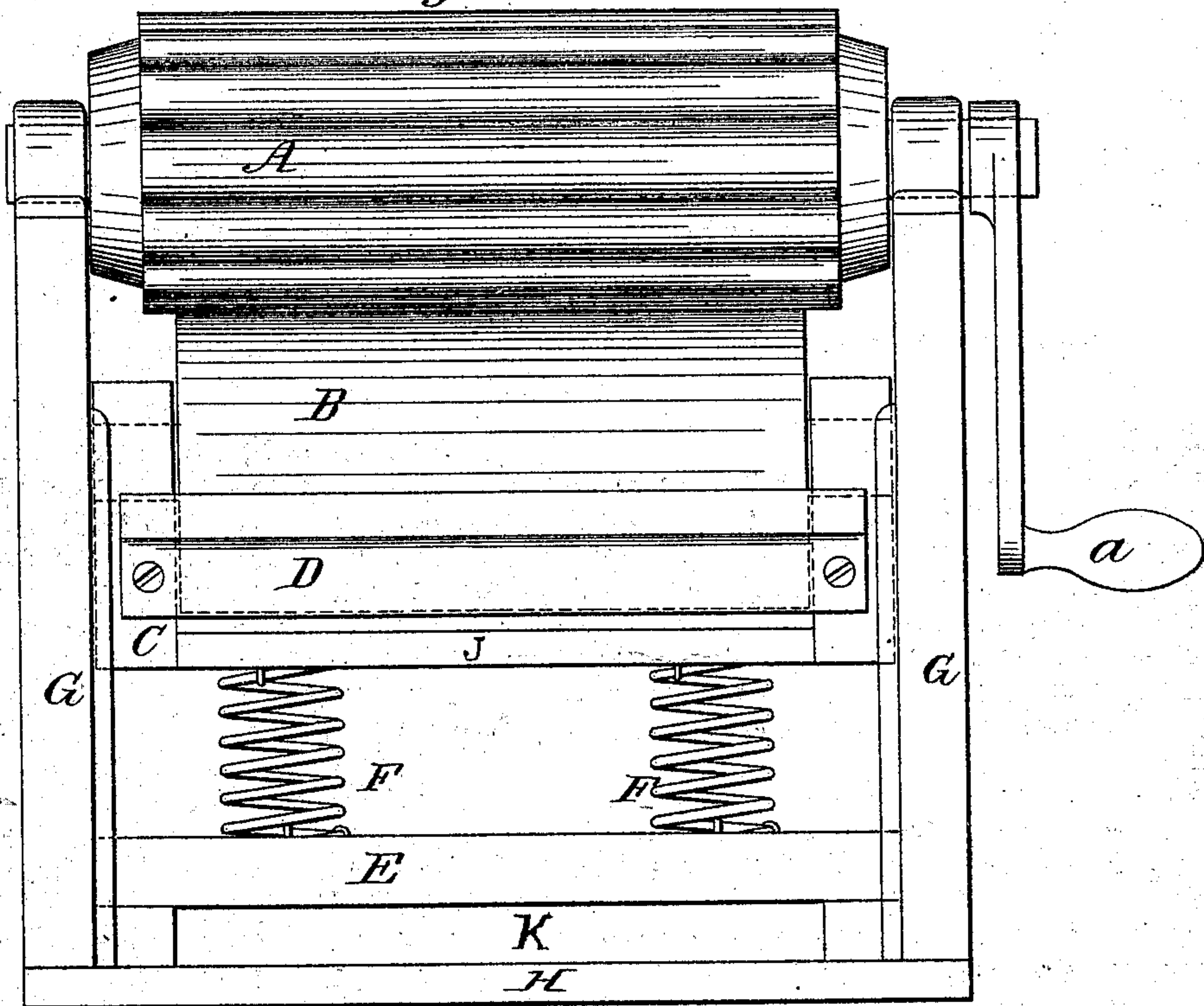
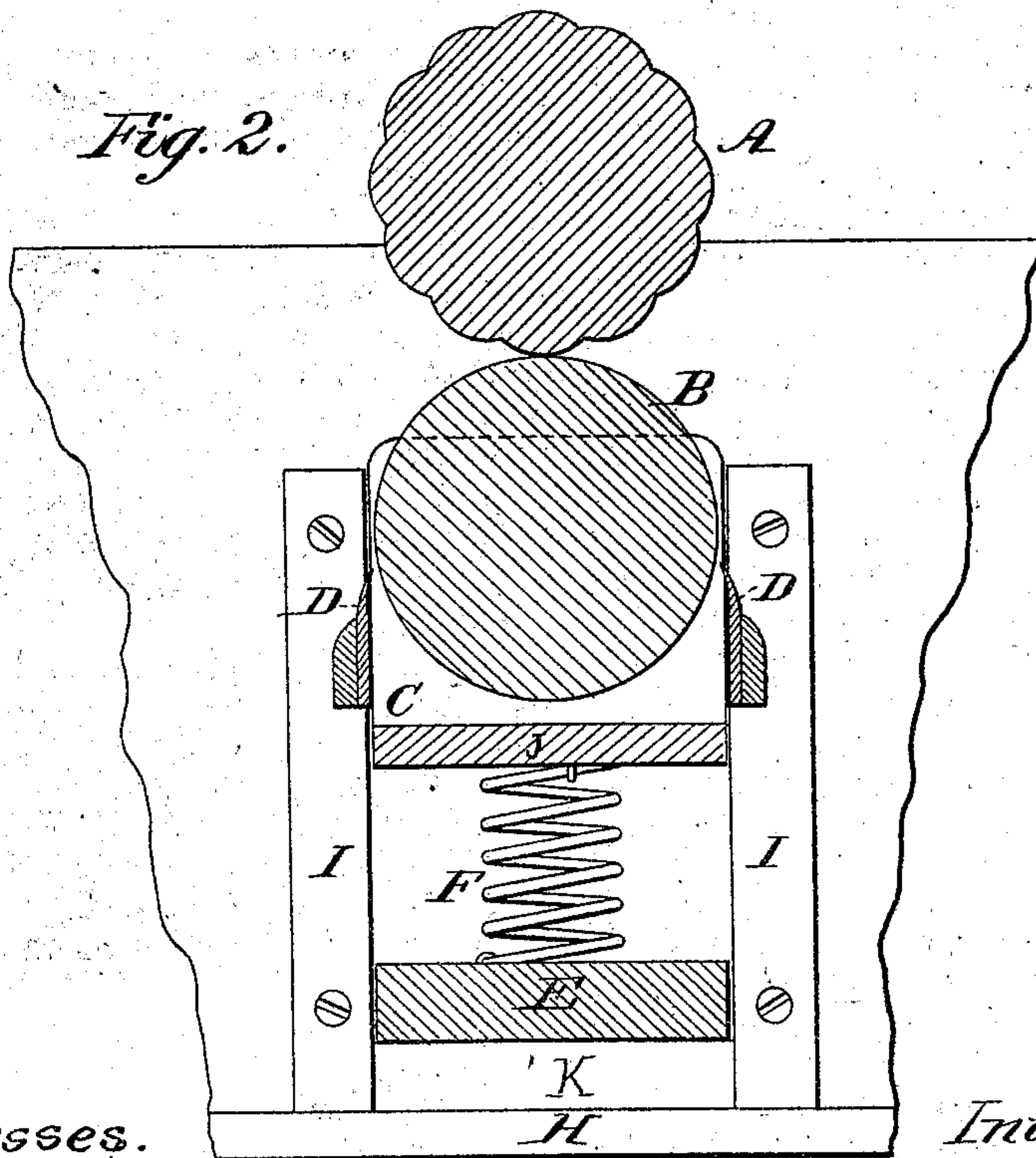


Fig. 2.



Witnesses.
Wm Howard

Inventor.
Edwin Hoyt,
by his attys.
McLellan & Berchert

UNITED STATES PATENT OFFICE.

EDWIN HOYT, OF STAMFORD, CONNECTICUT.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 135,808, dated February 11, 1873.

To all whom it may concern:

Be it known that I, EDWIN HOYT, of Stamford, in the county of Fairfield and State of Connecticut, 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 same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a front elevation of the machine constructed in accordance with my invention, and Fig. 2 is a transverse vertical section of the same.

Similar letters of reference in the drawing indicate corresponding parts.

My invention has for its object to improve the construction and efficiency of that class of washing-machines in which a single smooth roller is employed in connection with a single corrugated roller, the clothes to be washed passing between the two. To this end, the invention consists in the peculiar construction of the various parts, as I will now proceed to describe.

In the accompanying drawing, A is the upper corrugated roller having its bearings in two uprights, G, whose lower ends are connected by a cross-piece or sill, H. The uprights and sill form a suitable frame to support the working parts of the machine. B is the smooth roller placed immediately beneath the corrugated roller, and having its bearings in uprights or blocks, C C, placed against the proximate faces of the uprights G. The lower ends of these blocks are connected by the cross-piece J, and are guided in their movements to hold the smooth roller against the corrugated roller by means of the cleats I affixed to the inner faces of the uprights G, as shown. The smooth roller is held with a yielding pressure against the corrugated roller, by the spiral springs F interposed between the bar or cross-piece J, and a wide base-piece, E, secured to or forming a part of the sill H, so as to leave a space, K, between the

two for the passage of water. The frame C J for supporting the smooth roller is made exceedingly wide to prevent it from twisting between the cleats I, as the clothes are passed between the two rollers. If made narrow, this difficulty would occur to a greater degree and the frame become bound or cramped between the cleats, and therefore injure the efficiency of the springs F, or, rather, the yielding action of the smooth roller.

The working-surface of the corrugated roller terminates a short distance from the ends of the latter, so as to leave a space between them and the uprights G, while the smooth roller is made considerably shorter, so as to work between the blocks C and not extend the entire length of the corrugations of the roller A.

By this construction and arrangement of the two rollers the clothes are prevented from being caught and twisted or torn by the journals of either.

D D are thin strips of India rubber or other pliable material affixed to opposite sides of the frame C J, so that their upper edges shall bear lightly against the smooth roller B, as shown, and prevent the clothes from being carried round with it. a is a crank secured to the journal of the upper roller, for the purpose of operating the machine, as will be readily understood.

Having thus described my invention, what I claim is—

The washing-machine, consisting of the long corrugated roller A, the short smooth roller B, the supporting and guiding frame C J, the pliable bearing-strips D, the springs F, the supporting cross-bar E, and the cleats I, the whole arranged with respect to each other within the frame G H, as herein shown and described, for the purpose set forth.

EDWIN HOYT.

Witnesses:

L. E. KNAIP,
E. BROWN.