

E. NAFZIGER.  
Washing-Machines.

No. 158,181.

Patented Dec. 29, 1874.

FIG. 1.

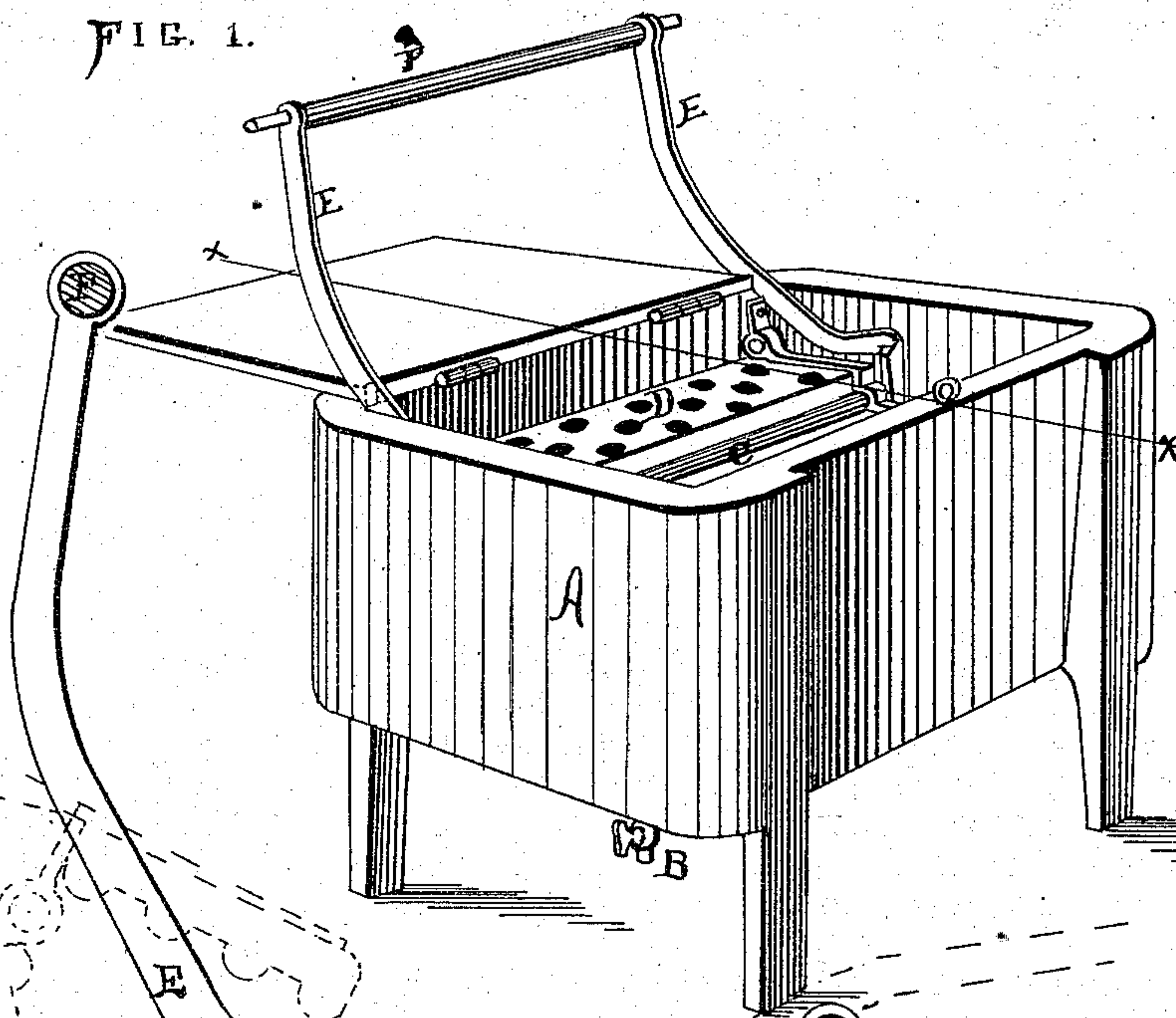
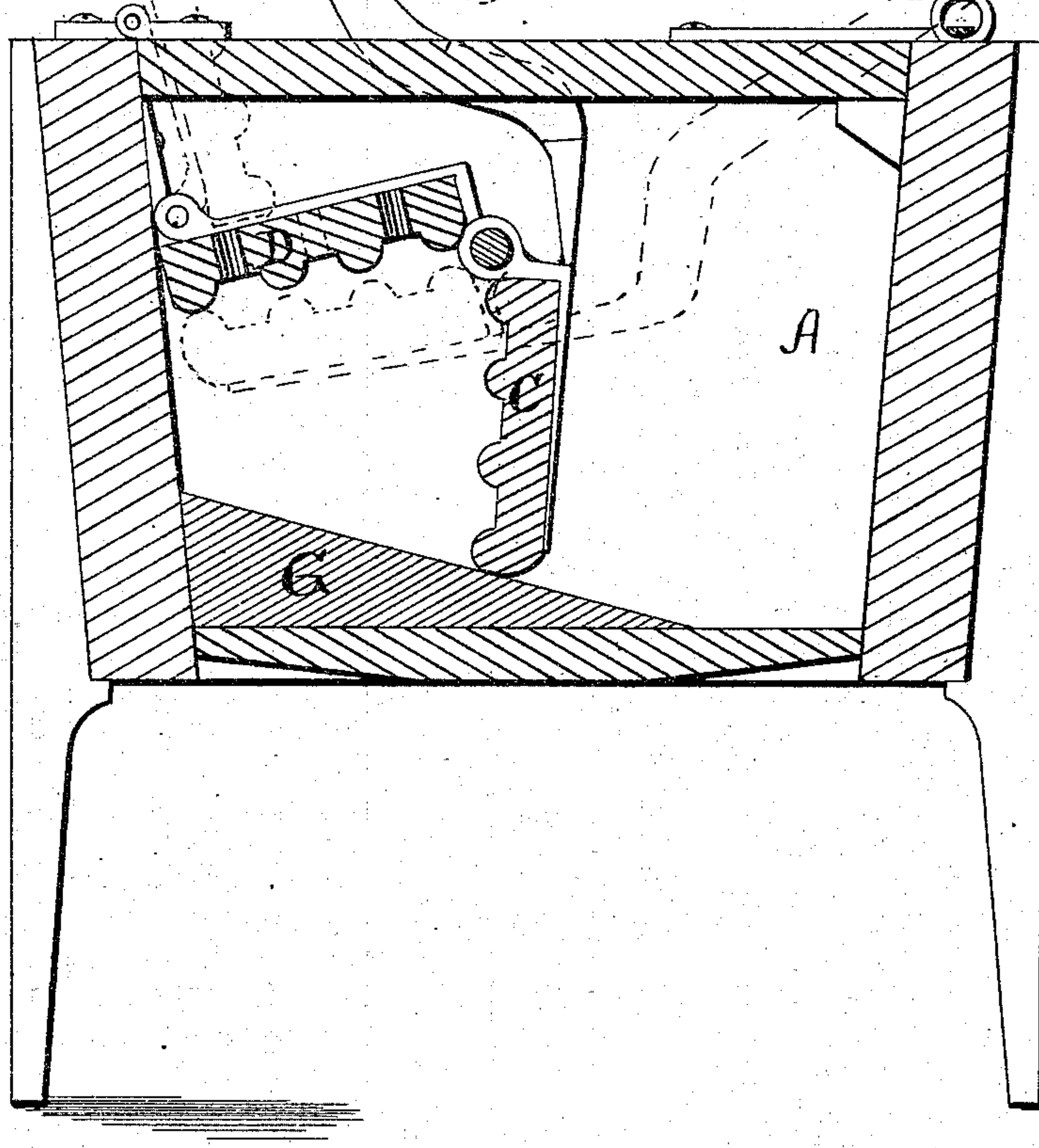


FIG. II.



WITNESSES.

*Adolf Smith*  
*John Hauke*

INVENTOR.

*Edward Nafziger*  
*By John Hauke, atty.*



# UNITED STATES PATENT OFFICE

EDWARD NAFZIGER, OF HIATTVILLE, KANSAS.

## IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **158,181**, dated December 29, 1874; application filed October 28, 1874.

*To all whom it may concern:*

Be it known that I, EDWARD NAFZIGER, of Hiattville, Bourbon county, in the State of Kansas, have invented a new and useful Improvement in Washing-Machines; and I hereby declare the following to be a full and exact description of the same, reference being had to the drawings that accompany and form a part of this specification—

Figure 1 being a perspective view, and Fig. 2 a cross-section on line *xx* on Fig. 1.

My invention consists in a cheap and exceedingly simple machine, which washes by pressure only, without rubbing, and with the least possible wear, all articles, from the heaviest to those of the most delicate fabric.

A water-tight box, A, for containing the articles to be washed, which may be of any desired form or dimensions, is supported upon suitable legs, and provided with a faucet, B, to draw off the water. Within this box are the jointed corrugated compressors or wash-boards C D, the latter of which is hinged to the back side of the box, and is perforated to admit the free passage of the water through it. These wash-boards may be faced with zinc, india-rubber, or other suitable material, if found expedient. To either end of the wash-board C are secured the bent levers E E, which are connected by means of the rod or handle F, by which the machine is operated. The bottom of the box is elevated toward the back side, at an angle at G, in order that it may be reached by the lower edge of the wash-board C, as it sweeps backward and forward. Upon opening the box and turning the handle F over upon the lid, the wash-board C is elevated above the box, and thrown back out of the way, for the introduction of the clothes. When not in use the handle F may be brought forward, and the lid shut down between the levers E E.

When the clothes are placed in the box the operation of washing is performed by impart-

ing a reciprocating motion to the handle F, by which, at each stroke, the clothes which are contained between the wash-boards C D are tightly pressed, and raised entirely out of the water, and are again plunged into it, the water being squeezed out through the perforations in the wash-board D. By this duplex movement or double hinging of the wash-boards, the board C will at all times work closely to the bottom of the box, for gathering up all the clothes, while at the same time it will rise freely to avoid doing injury to any which may be caught under it.

This machine is so constructed as to admit of a wringer being permanently attached without interfering with its operation.

By the combined action of the wash-boards C D with the bottom and back side of the box the clothes are pressed upon from all sides at the same time, while, by reason of the great leverage upon the handle F, a powerful action is produced upon the clothes by a slight pressure from the hand, only a slow motion being required, thus rendering the operation of washing both easy and rapid.

Having thus described my invention, I desire to state that I do not claim as new a combination of wash-boards for compressing the clothes; neither do I claim as new corrugated or perforated wash-boards, as such devices are well known.

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

The wash-boards C D, hinged to each other and to the box A, and operated by the levers E E, substantially in the manner shown.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWARD NAFZIGER.

Attest:

W. C. STEWART,  
ALBERT NAFZIGER.