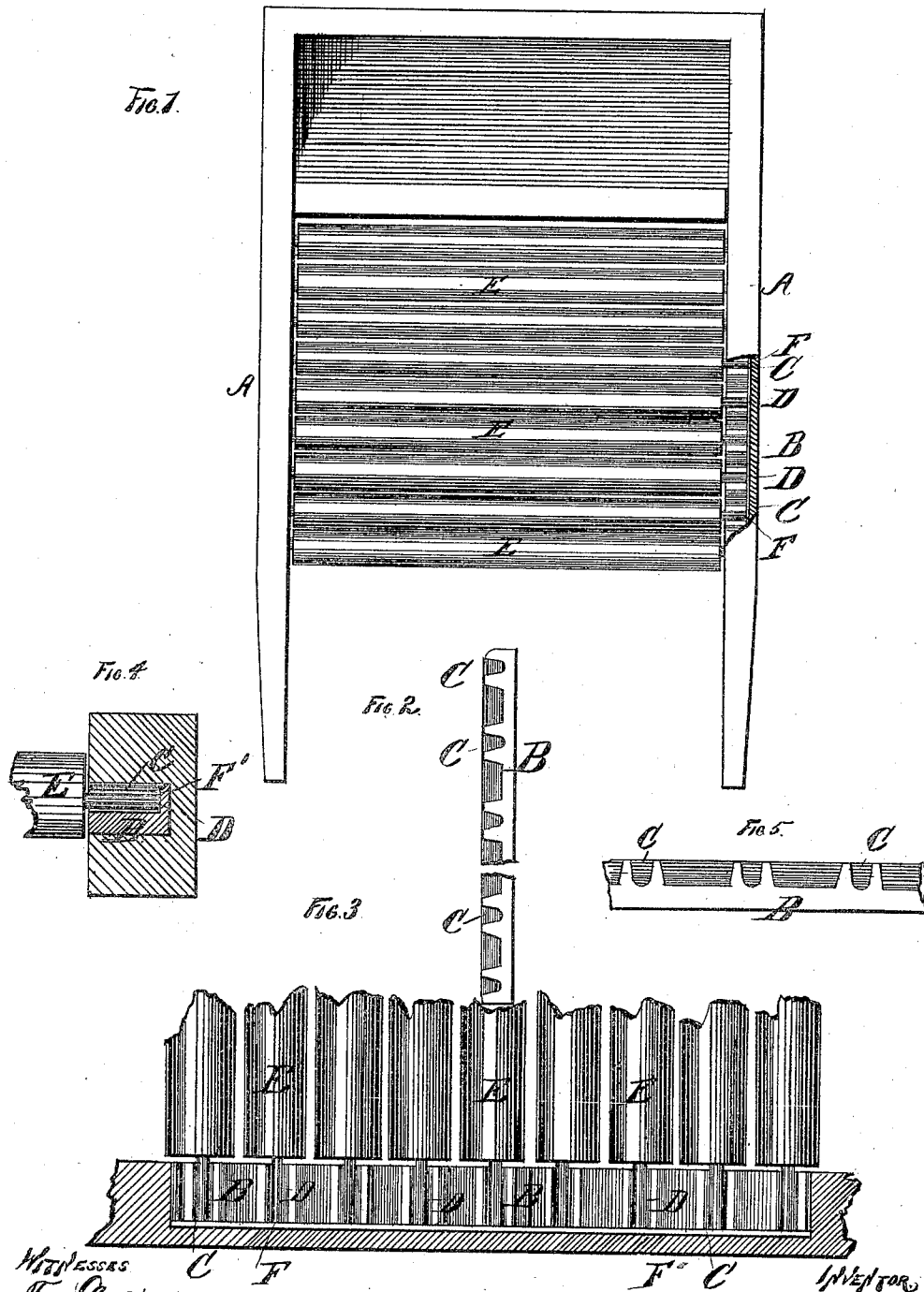


L. BURRILL.

WASH-BOARD.

No. 172,699.

Patented Jan. 25, 1876.



WITNESSES
J. B. Hunt.

J. B. Hunt.

Lemuel Burrill
By Daniel Breed Atty.

UNITED STATES PATENT OFFICE.

LEMUEL BURRILL, OF EAST BOSTON, MASSACHUSETTS.

IMPROVEMENT IN WASH-BOARDS.

Specification forming part of Letters Patent No. 172,699, dated January 25, 1876; application filed January 14, 1876.

To all whom it may concern:

Be it known that I, LEMUEL BURRILL, of East Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Wash-Boards; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

In the accompanying drawings, Figure 1 is a top view of my improved wash board. Fig. 2 is a detached view of the metallic bar with bearings therein for journals of the rollers. Figs. 3, 4, and 5 are detached views.

My invention consists in certain novel features or improved construction to prevent friction from the end play of the rollers.

The general features of my wash-board may be similar to other wash-boards heretofore known. In the side pieces A, Fig. 1, I make a groove, and insert metal bars B, with grooves C for the bearings of the journals D of the rollers E. At the ends of the rollers I insert a strip of sheet metal, F, for the ends of the journals D to play against, and thus prevent the usual friction of the ends or shoulders of the wooden rollers E against the side strips B. This strip of sheet metal is best seen in Fig. 3.

As a more expensive modification of this strip of metal F, I propose, also, to cast the bars B with a flange, F', as shown in Fig. 4, which is a transverse section of the side piece

A, with the bar B in place, and the journal D resting in its bearing.

The great advantage of this strip or flange is, preventing friction from end play of the rollers.

The end of the journal D works against the strip F, and thus the friction is very slight, because of the small diameter of the journal; but if the wooden end of the roller were to bear against the side piece A the friction would be considerable, and thus make it harder work for the washer-woman.

It must be borne in mind that rollers having friction produce more rubbing action upon the clothes, and this rubbing wears the fabric, and is very injurious to clothes of fine texture. The outside dirt is very easily washed from clothes; but the water must pass through or out of the fabric with a sudden motion, or rushing like a stream or current, in order to wash out the dirt from interior fibers of the fabric.

Having described my invention, I claim—

In a wash-board, the above-described metallic bearing F for the ends of the metallic journals D, for the purpose of diminishing friction from the end play of the rollers E, substantially as set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

LEMUEL BURRILL.

Witnesses:

DANIEL BREED,
WM. L. BRAMHALL.