

G. Custer, Improved Washing Machine.

75129

PATENTED
MAR 3 1868

FIG. 1.

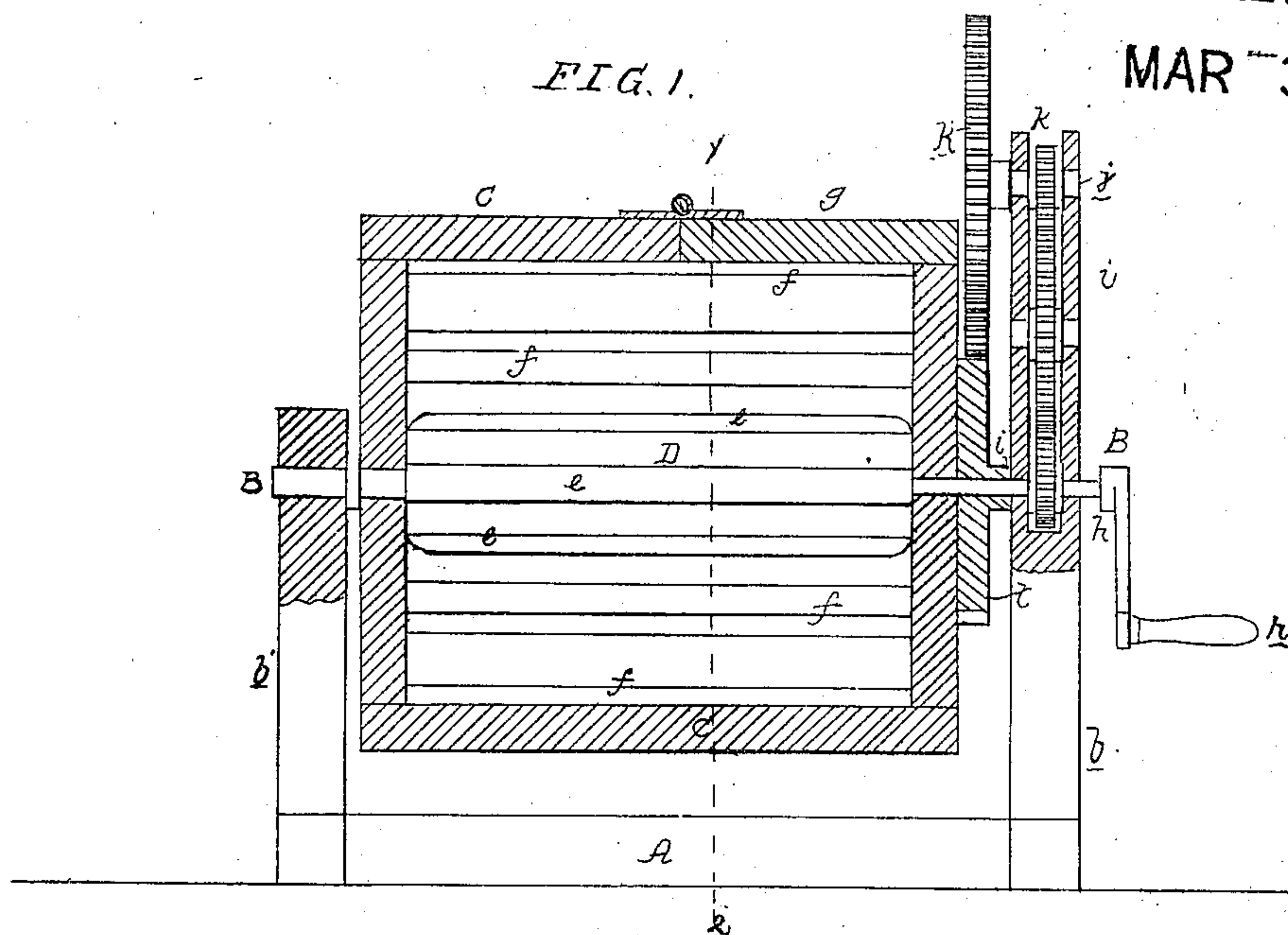


FIG. 2.

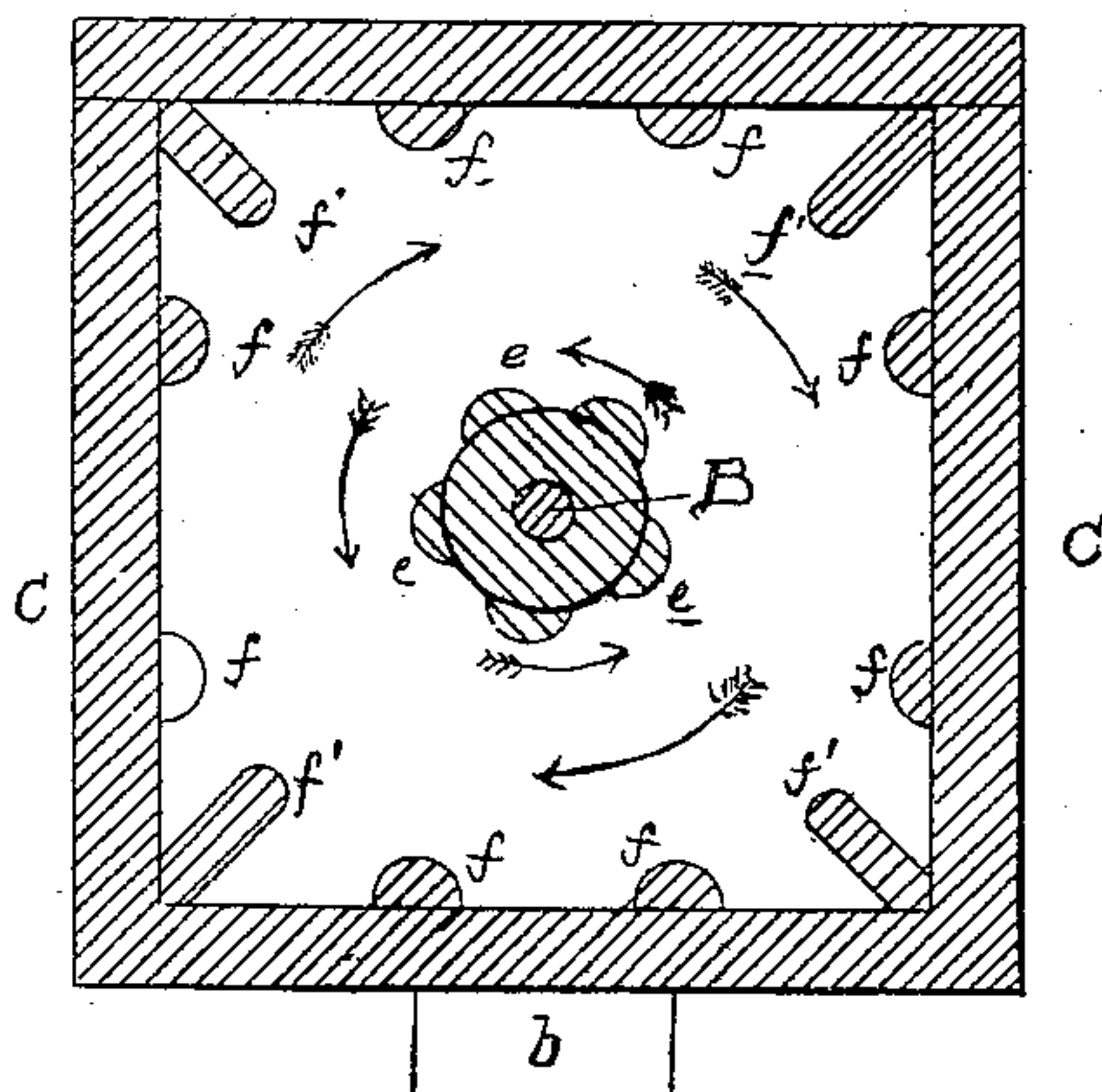
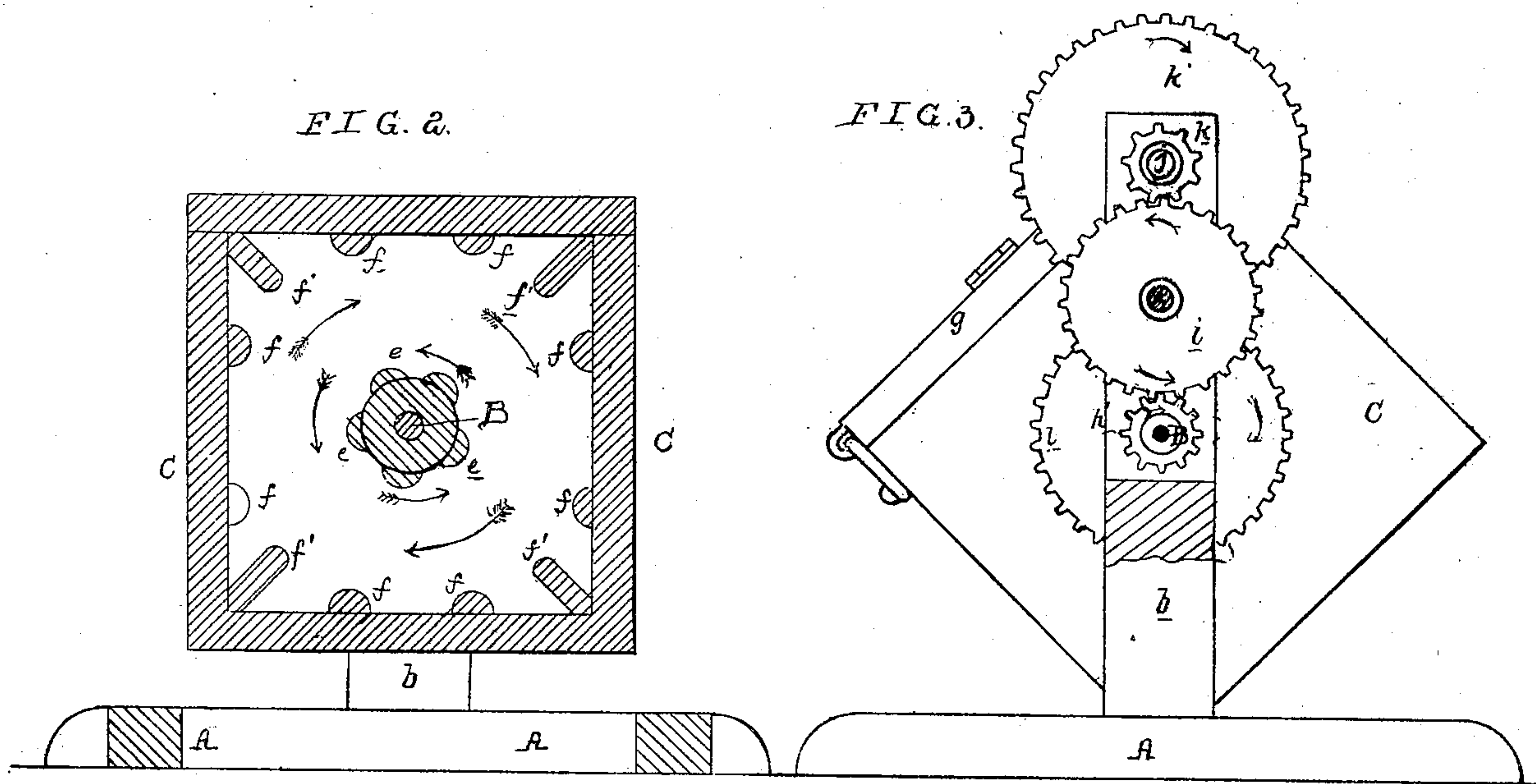


FIG. 3.



WILLISSES

Charles Horner
J. H. Horner Godwin.

G. Custer
By his Attorney
H. House.

United States Patent Office.

GEORGE CUSTER, OF NORRISTOWN, PENNSYLVANIA, ASSIGNOR TO HIMSELF AND WILLIAM MOORE, OF THE SAME PLACE.

Letters Patent No. 75,129, dated March 3, 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, GEORGE CUSTER, (assignor to myself and William Moore,) of Norristown, Montgomery county, Pennsylvania, have invented an Improved Washing-Machine; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention consists of a washing-machine in which a box containing the clothes is caused to turn in one direction, and a ribbed roller within the said box to turn in an opposite direction, as fully described hereafter, the clothes being thus so thoroughly agitated that the particles of dirt are quickly removed from the same.

In order to enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation, reference being had to the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 is a vertical sectional view of my improved washing-machine.

Figure 2, a transverse vertical section on the line 1-2, fig. 1; and

Figure 3 an end view, partly in section.

Similar letters refer to similar parts throughout the several views.

In suitable bearings in two standards, *b* and *b'*, secured to a horizontal frame, *A*, turn the journals of a shaft, *B*, on which is hung loosely a square box, *C*, as shown in the drawing; and to the shaft *B* within the said box is secured a roller, *D*, on which are longitudinal ribs *e*. At the sides of the box *C* are ribs *f*, and from each corner projects a blade, *f'*, the said ribs and blades being parallel to the ribs on the roller *D*, and at one side of the box is a hinged lid or cover, *g*. The shaft *B* has at one end a crank-handle, *h*; and a pinion, *h'*, secured to the shaft near the handle *h*, gears into a cog-wheel, *i*, upon a short spindle turning in the standard *b*. To a spindle, *j*, which turns in the standard above the wheel *i*, are secured a pinion, *k*, and a cog-wheel, *k'*, the former gearing into the cog-wheel *i*, and the latter into a wheel, *t*, secured to the end of the box *C*, and turning with the box on the shaft *B*.

After opening the lid *g*, the water, suds, and the clothes to be washed are introduced into the box *C*, the lid is then closed and fastened, and the shaft *B* is turned in the direction of its arrow, fig. 2. The contents of the box *C* are carried upwards by the projections *f* and blades *f'* until above the roller *D*, upon which they then fall, the said roller revolving in an opposite direction to the box, unfolding the clothes so that the water and suds elevated by the blades *f'* are discharged into the interstices of the clothes, from which they are forced, carrying the particles of dirt with them, as the clothes are rubbed against the projections *e*, *f*, and *f'*, after falling from the roller.

After the clothes have been cleansed, the box *C* is turned to the position shown in fig. 1, the lid is opened, and the clothes removed. The box is then reversed and the dirty water allowed to run off. The box may then be turned to its first position, filled, and the operation repeated.

I claim as my invention, and desire to secure by Letters Patent—

The box *C*, its ribs or projections *f* and *f'*, in combination with the ribbed roller *B*, and with the within-described devices, or their equivalents, for imparting a rotary motion in one direction to the box and in the other to the roller, substantially as and for the purpose specified.

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

GEORGE CUSTER.

Witnesses:

C. E. FOSTER,

W. J. R. DELANY.