

C. F. Fleming,

Washing Machine.

N^o 84,102.

Patented Nov. 17, 1868.

Fig. 2.

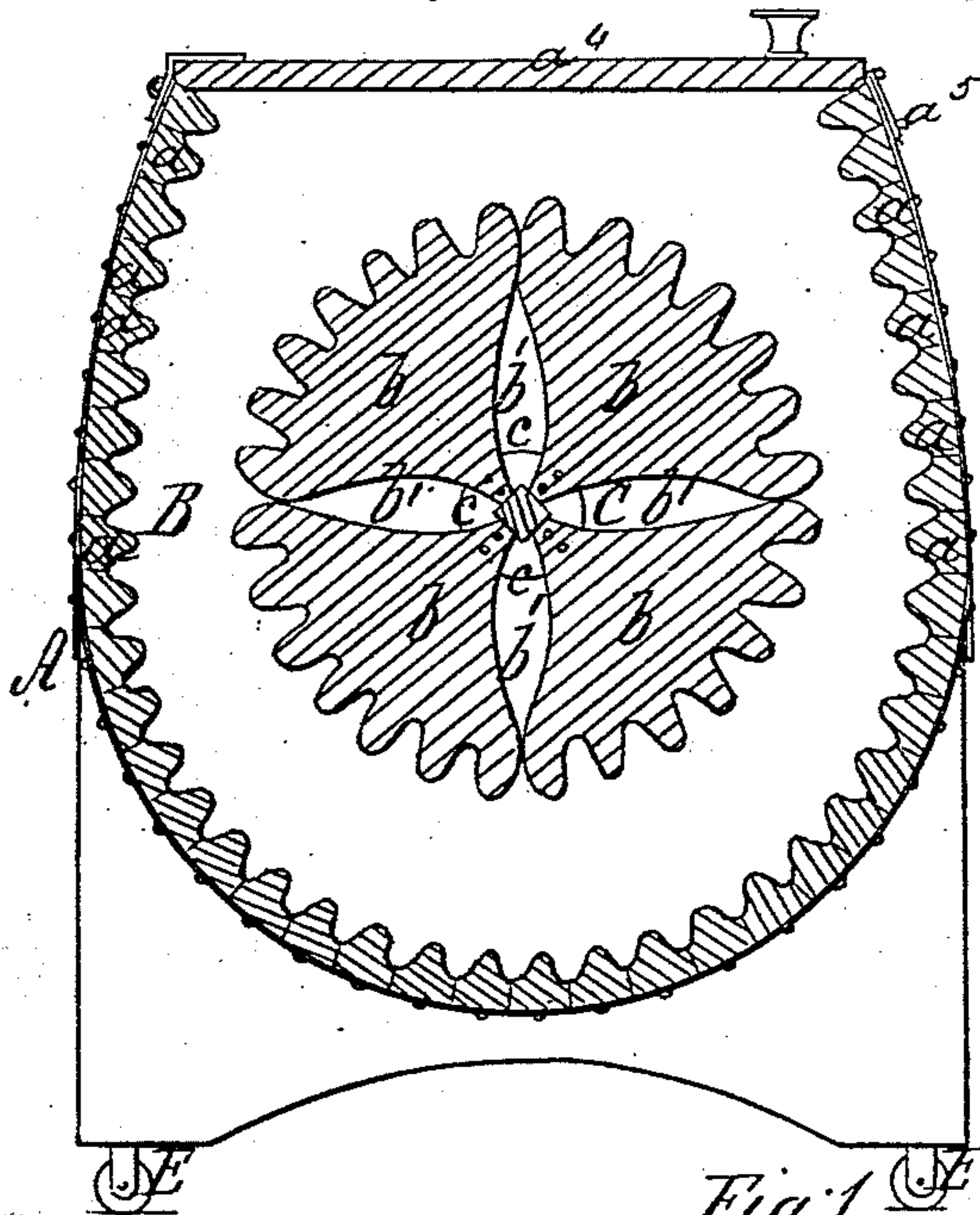


Fig. 3.

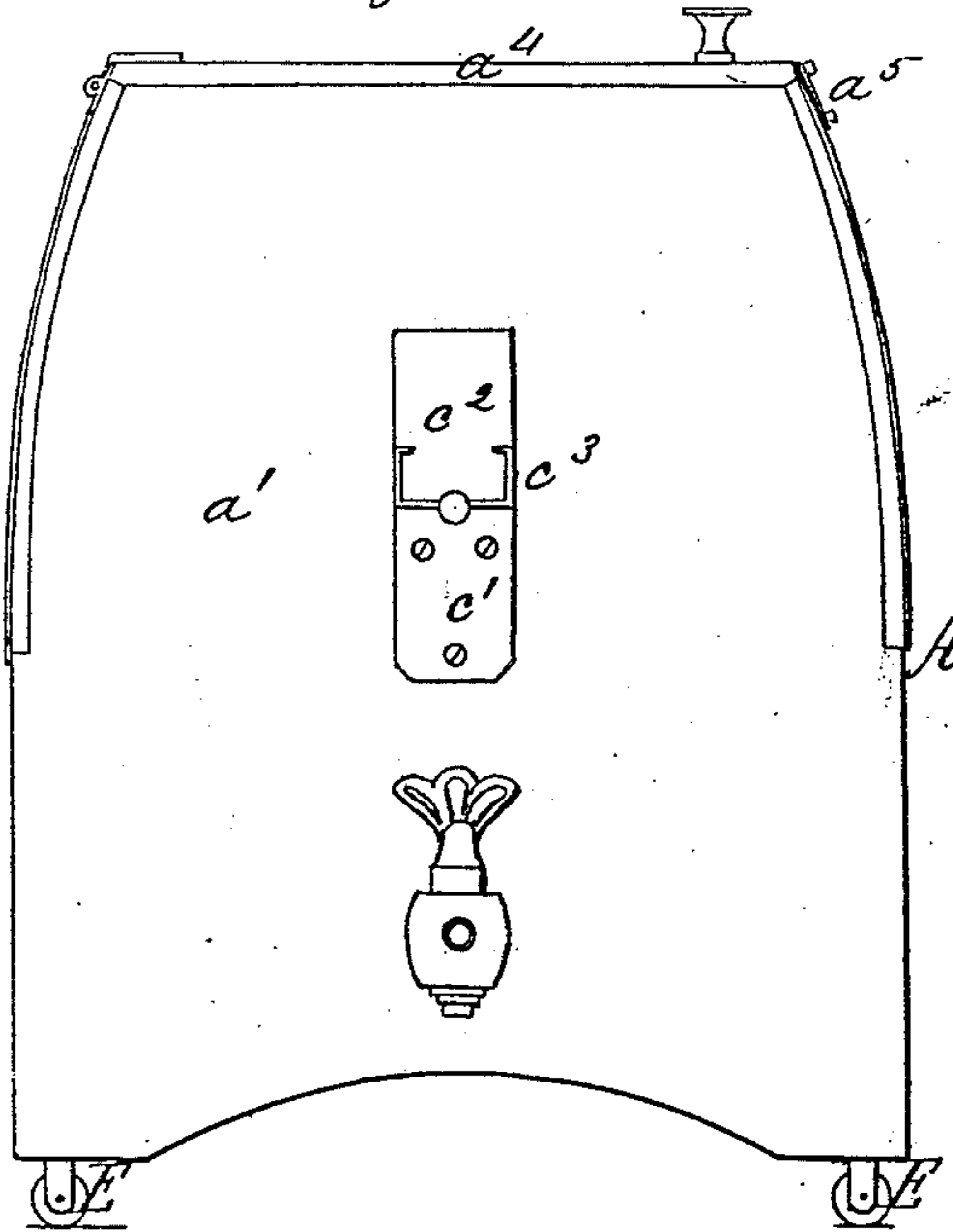
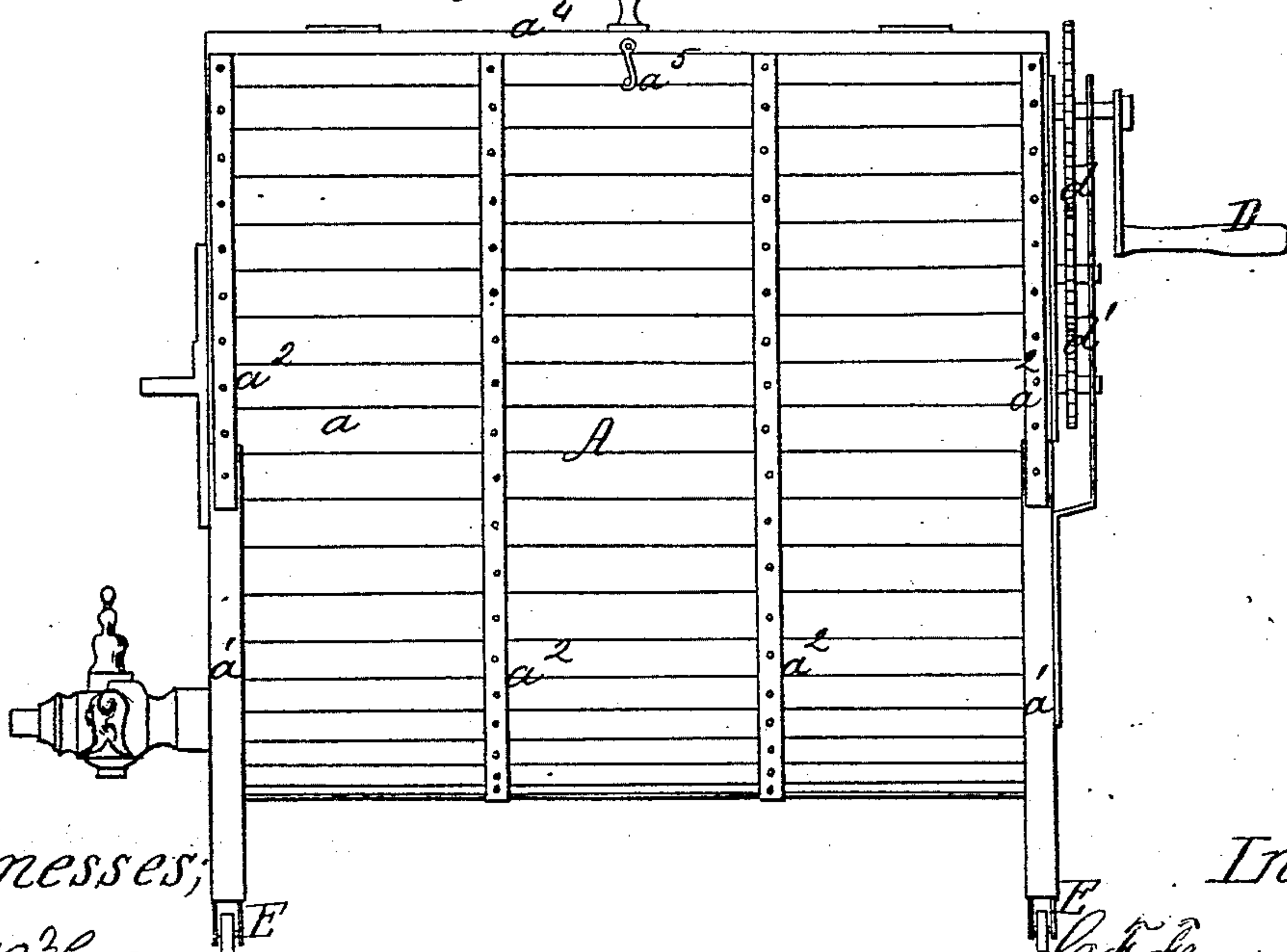


Fig. 1.



Witnesses;
Geo W. Lincoln
Geo. P. Shonk

Inventor,

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M. Randolph & Co.

United States Patent Office.

CAROLINE F. FLEMING, OF BELLEVILLE, ILLINOIS.

Letters Patent No. 84,102, dated November 17, 1868; antedated October 28, 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, CAROLINE F. FLEMING, of Belleville, in the county of St. Clair, and State of Illinois, have made certain new and useful Improvements in Washing-Machines; and I do hereby declare that the following is a full and clear description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention relates to an improved barrel washing-machine, the barrel or tub of which is constructed in a horse-shoe form, in transverse section, is corrugated inside, and which is provided with a corrugated roller or rubber of peculiar construction, as will be hereinafter more fully explained.

The especial feature of the invention relates to the construction of the roller or rubber.

To enable those skilled in the art to make and use my improved machine, I will proceed to describe its construction and operation.

Figure 1 of the drawings is a side elevation of the improved machine;

Figure 2 is a transverse central sectional elevation of it; and

Figure 3 is an end elevation of the same.

The tub or barrel A is constructed in the horse-shoe form, (best seen in fig. 2,) of narrow staves, *a*, and straight, flat end-pieces, *a'*, the sides or staves being corrugated their entire length inside, (as shown in fig. 2,) and held together by the external hoops *a''*, which should be screwed or riveted to the staves.

The roller, B, is composed of three or four (more or less) pieces, *b*, the external sides of which are corrugated, as in fig. 2, and the internal sides of which are curved inward to an acute angle at the shaft C. The pieces *b* are held together by washer-plates, *c*, which are riveted or screwed to the ends of them, and which form bearings for the shaft C. The roller B should

extend nearly the entire length of the inside of the barrel or tub, and the construction of it in the manner above described is found to be the best attainable, both as regards economy and facility of construction, and advantageous action in operation, the apertures *b'*, between the pieces *b*, affording facilities for the engagement and agitation of the water through the fabric being cleansed.

The shaft C is provided with bearing-boxes, *c'* *c''*, in the ends of the tub or barrel. The lower box, *c'*, is rigidly affixed to the end-piece *a'*, while the upper box, *c''*, is formed of an elastic material, as India rubber, and has its lower or bearing-end shod with a metallic bearing-plate, *c'''*, hooked into it, as shown in fig. 3. The object of this elastic bearing is to allow the roller to rise over buttons or thick pieces of clothing in the tub or barrel.

The lid *a'* is hinged to the top of the barrel or tub, and provided with a hook, *a''*, for holding it closed.

The shaft C may be operated directly by the crank D, or by the gearing *d d'*, interposed between the said crank and shaft.

A faucet and hose may be used to draw the water off from the machine after it shall have been used, and casters, *e*, may be placed under the machine, for convenience of moving it.

Having described my invention,

What I claim, is—

The roller B, when formed of the sector-pieces *b*, and combined with the shaft C by the washer-plates *c*, substantially as set forth.

In testimony of which invention, I hereunto set my hand, in presence of—

CAROLINE F. FLEMING.

Witnesses:

M. RANDOLPH,
GEO. W. HERBERT.