

Moorhead & Grier,

Washing Machine.

N^o 64,243.

Patented Apr 30, 1867.

Fig 1.

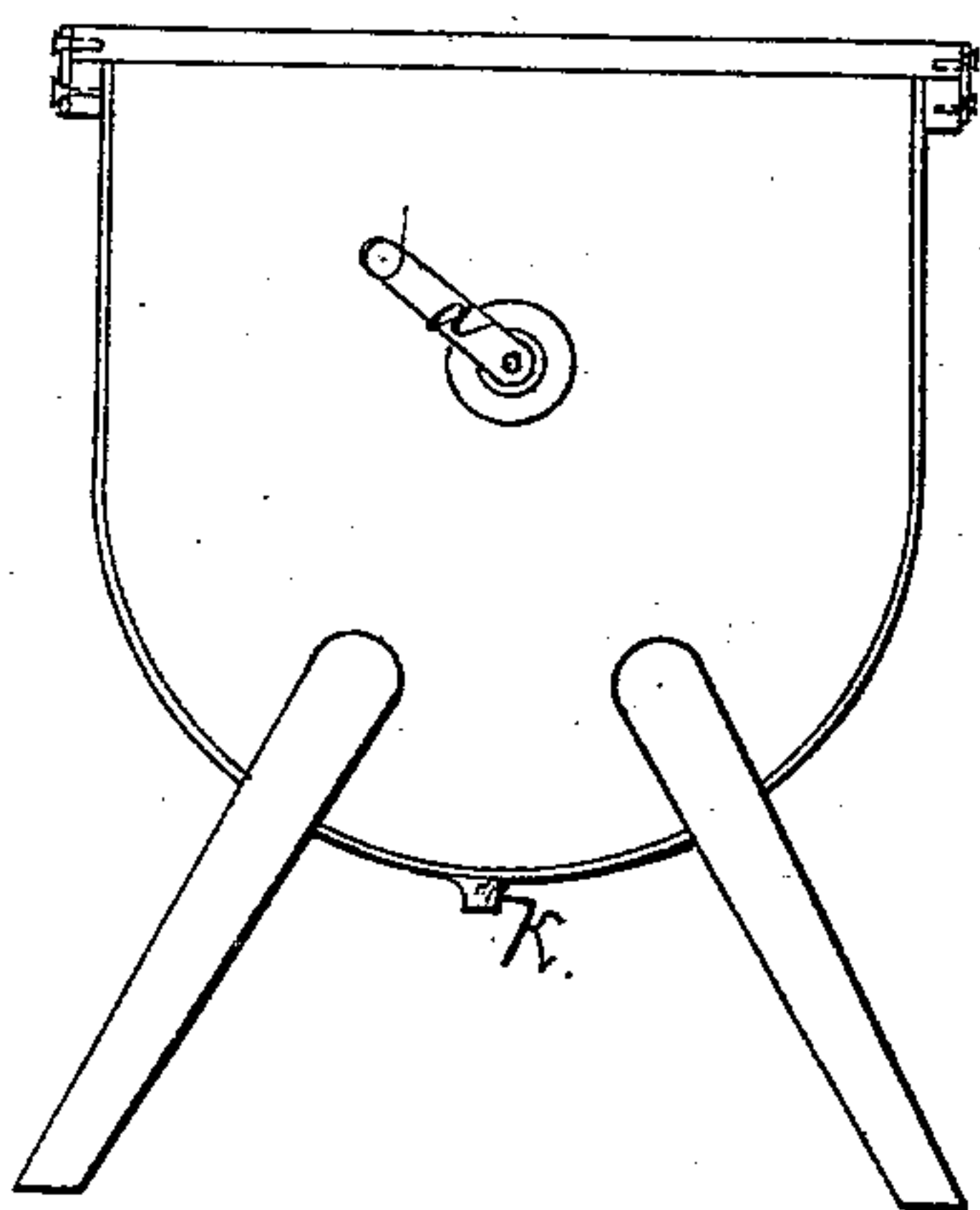


Fig 2.

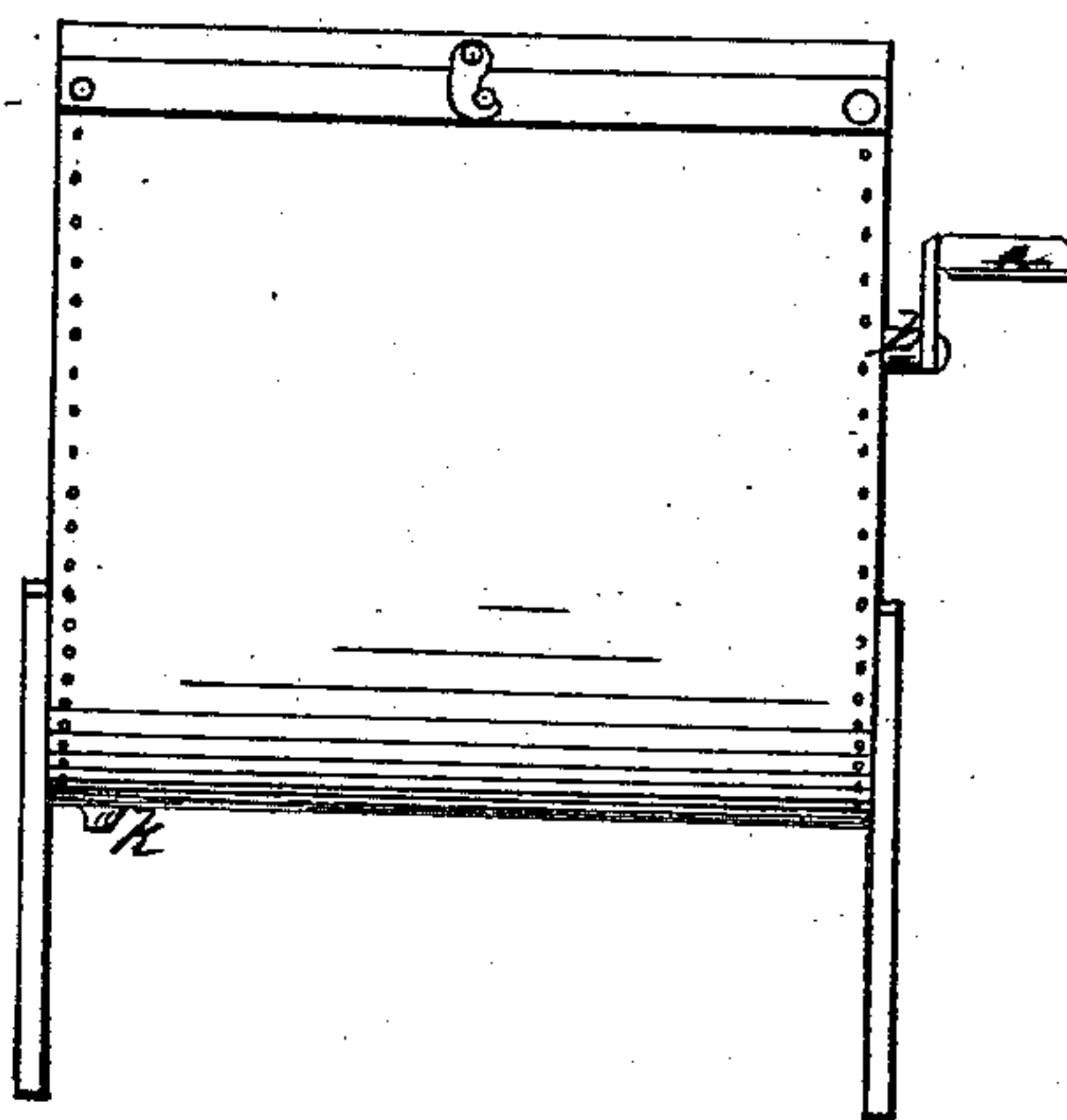


Fig 3.

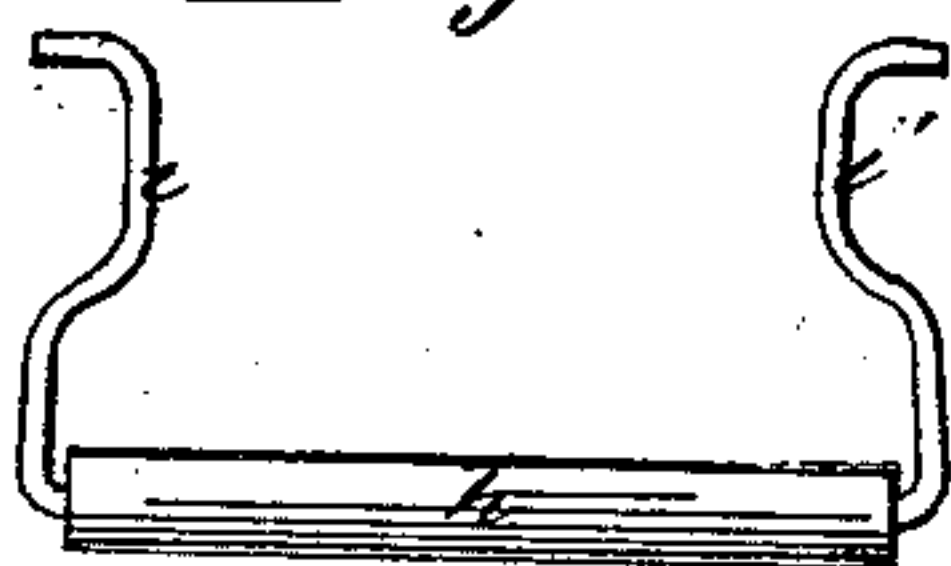


Fig 4.

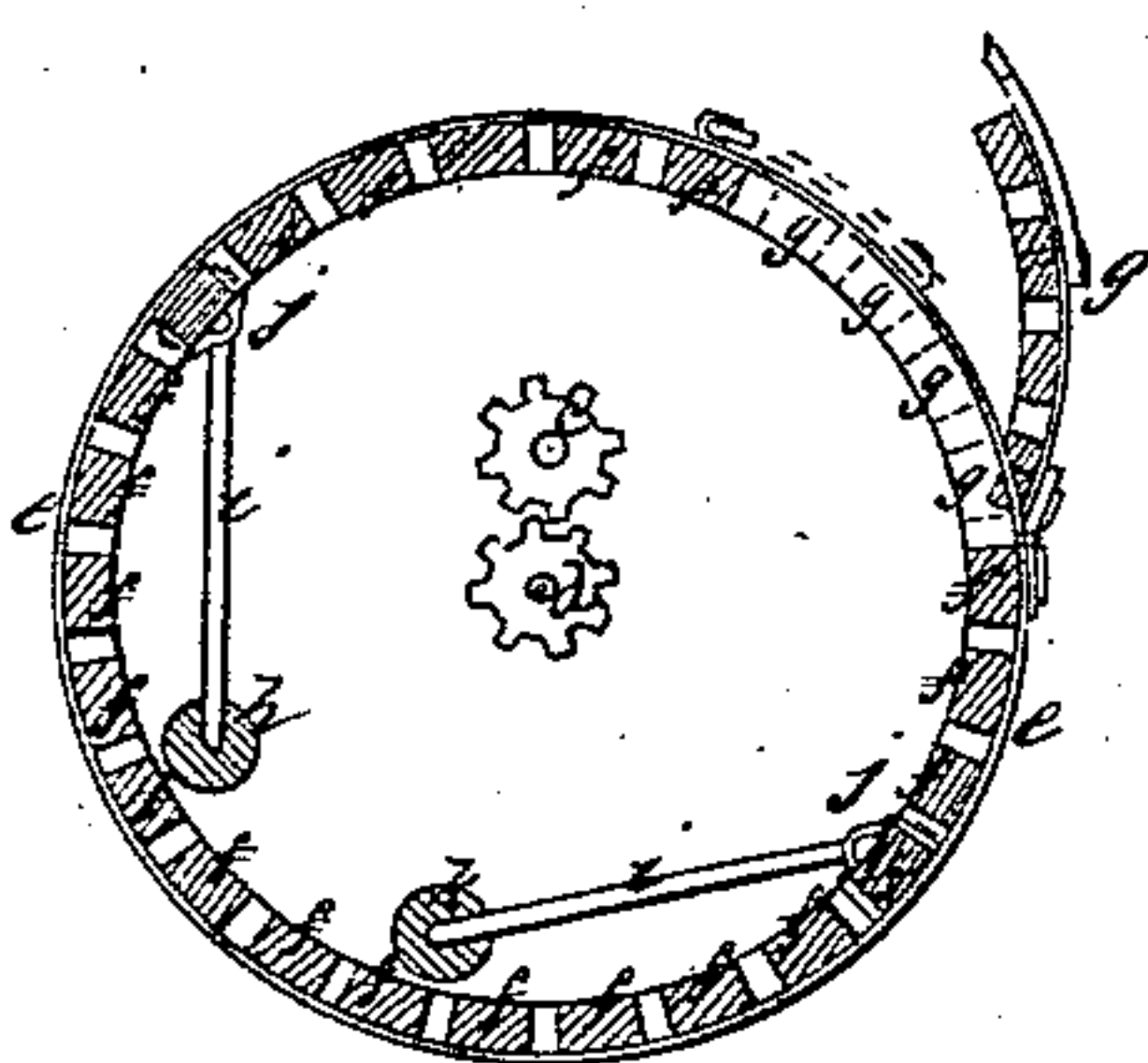
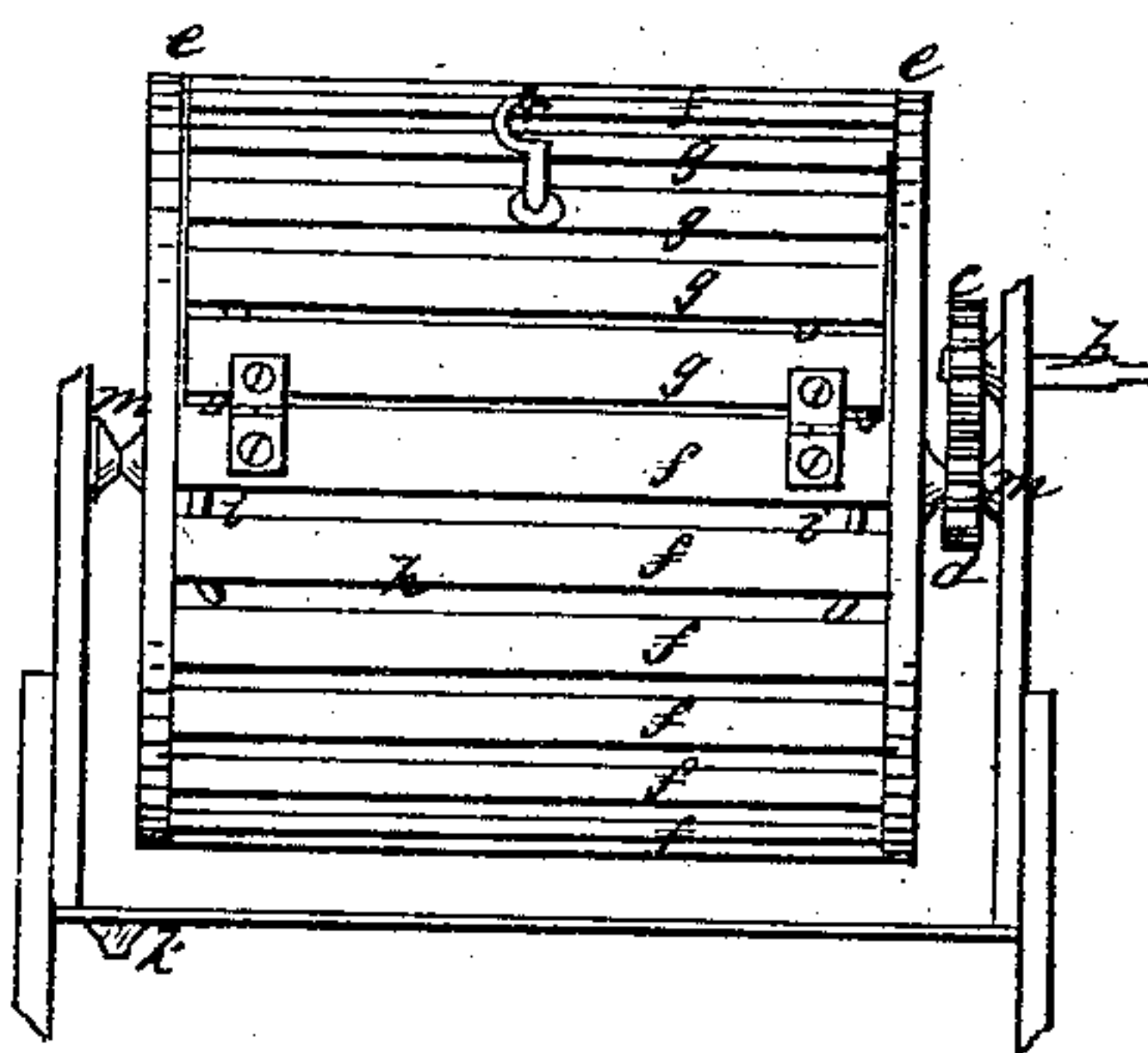


Fig 5.



Witnesses.

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CLARK MOORHEAD AND ISAAC GRIER, OF LEWISTOWN, ILLINOIS.

Letters Patent No. 64,243, dated April 30, 1867.

IMPROVEMENT IN WASHING MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

Be it known that we, MOORHEAD & GRIER, of Lewistown, in the county of Fulton, and State of Illinois, have invented a new and useful Improvement on a Washing Machine; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, each making a part of this specification, in which—

Figure 1 is an end elevation of outside.

Figure 2, a side elevation of outside.

Figure 3, a side view of the "beater."

Figure 4, a transverse section of the clothes cylinder; and

Figure 5, a longitudinal elevation of cylinder or drum, with part sections of box and legs.

The different parts are represented as follows, viz: *a*, crank; *b*, journal attaching *a* and cog-wheel *c*; *d*, cog-wheel of equal capacity, attached to short journal of one end of cylinder *e*, the journal with that on opposite end being secured to outside of cylinder; *f*, slats of cylinder; *g*, slats in door of drum or cylinder, through which clothes are introduced; *h*, the beater, hung on arms *i*, revolving in staples *j*; *k* is the opening for the discharge of water.

The nature of our invention consists in providing a hollow, revolving slat cylinder (which contains the clothes to be washed, and which is about one-third submerged in suds) with beaters of suitable weight, so hung at either end that as the cylinder revolves and the weight of the beaters comes above and within the points of hinging, that they turn over, and, falling on the clothes, beat or pound the dirt from them.

To enable others skilled in the art to make and use our invention, we will proceed to describe its construction and operation.

We make the outside, as shown in figs. 1 and 2, of any of the known forms, and to the inside of ends we secure the boxes *m m*, in which turn the points on which revolves the cylinder *e*. We make the ends of cylinder of wood and enclose it with slats of wood *f*, secured to ends and properly hooped, except about four slats *g*, fig. 5, which are framed to shut inside of ends and hinged and hooked to form a door, *g*, fig. 4, through which to insert clothes. To the inside of two opposite slats we secure staples *j*, in which turn the ends of arms *i*, on which is the beater *h*, of any desired weight. The crank *a* is attached to shaft *b*, which turns in boxing secured to end of machine, and terminates with cog-wheel *c*, which works in a wheel, *d*, of equal capacity. *d* is fastened to a shaft which is secured to end of drum *e* and turns in boxing *m*. There is no shafting through cylinder.

To use our machine we bring the door *g* to the top, when the beaters *h h*, fig. 4, will rest on opposite side of drum, which is about one-third immersed in water. The clothes, properly soaped, are put in on beaters. The left-hand beater *h*, fig. 4, passes through upper arc pendant, and, when directly opposite from position shown, it rests on part of clothes. When the other beater gains a position where its weight brings it down, the clothes, at first above it, have mostly fallen to lower side, and the beater falls on them. By this succession of the beaters the clothes are constantly changed in position, and at each revolution present a different surface to the blow of the beater, and are spread in a comparatively even body through the washing, not wadded or rolled up as by some machines.

What we claim as our invention, and desire to secure by Letters Patent, is—

The beaters *h* hinged to the inner ends or sides of the revolving drum for the uses and purposes above named, substantially as above set forth.

CLARK MOORHEAD,
ISAAC GRIER.

Witnesses:

GEO. WHITAKER,

GEORGE HUMPHREY.