

N^o 18, 168,

Fig:1

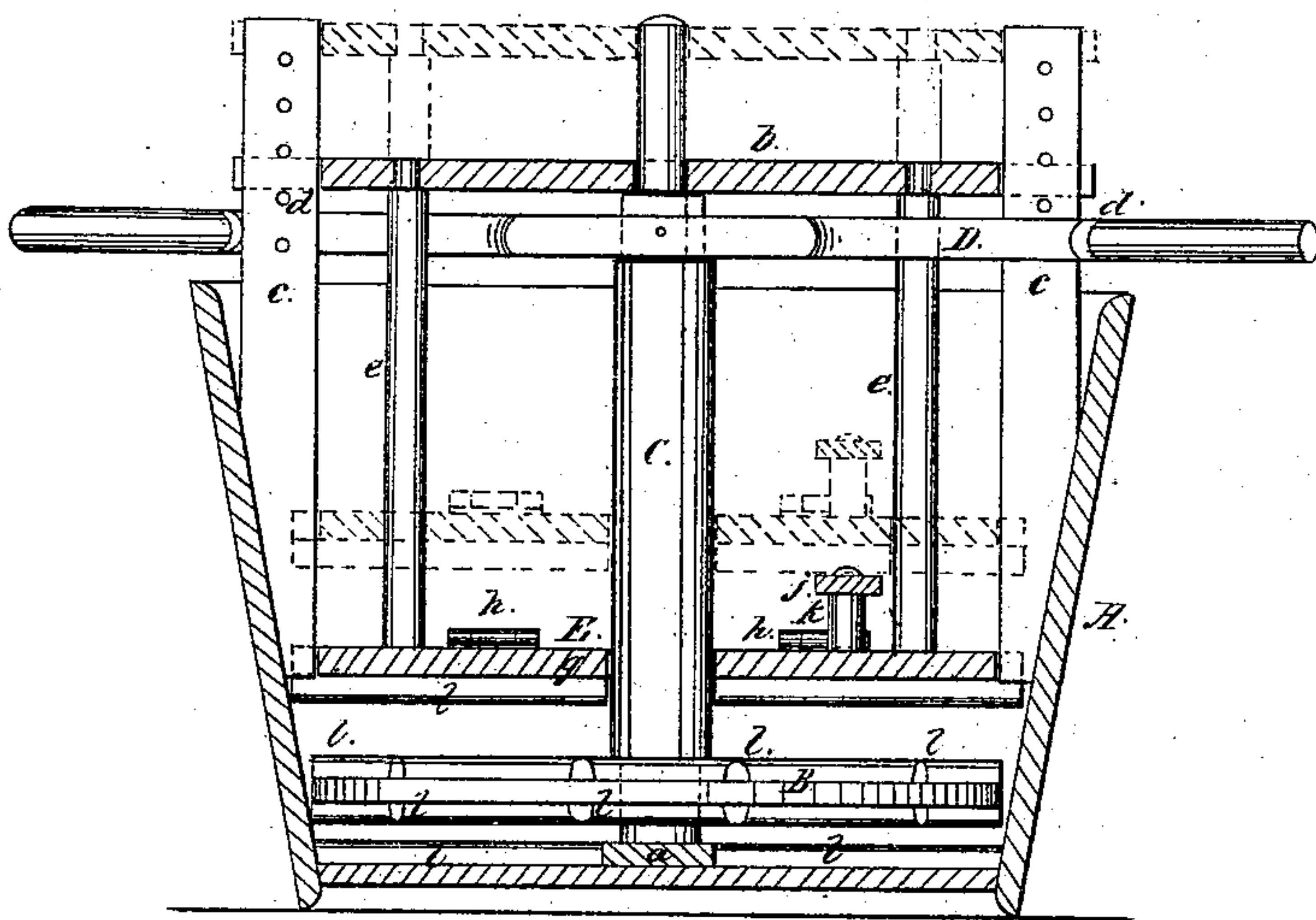


Fig:2.

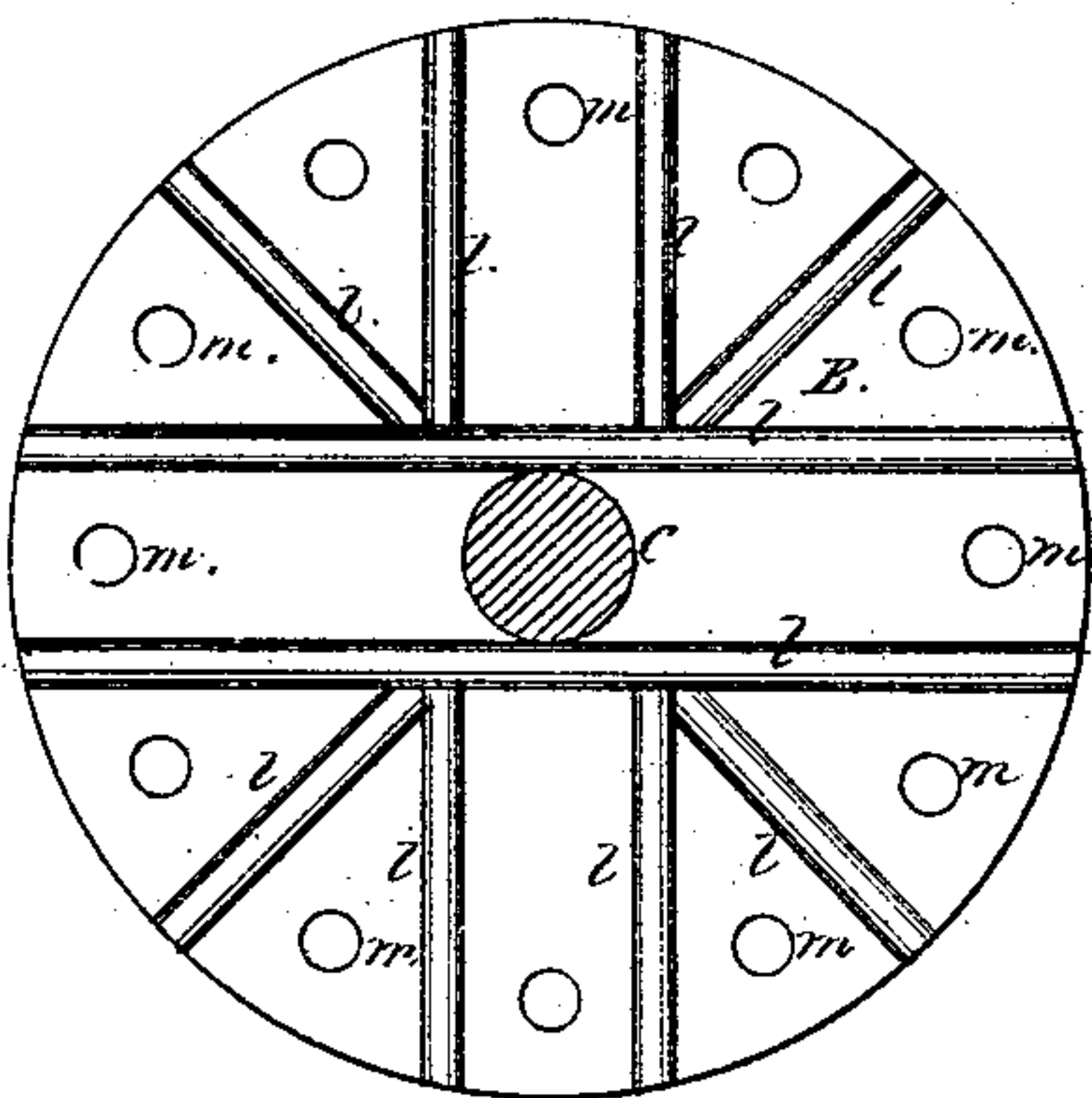
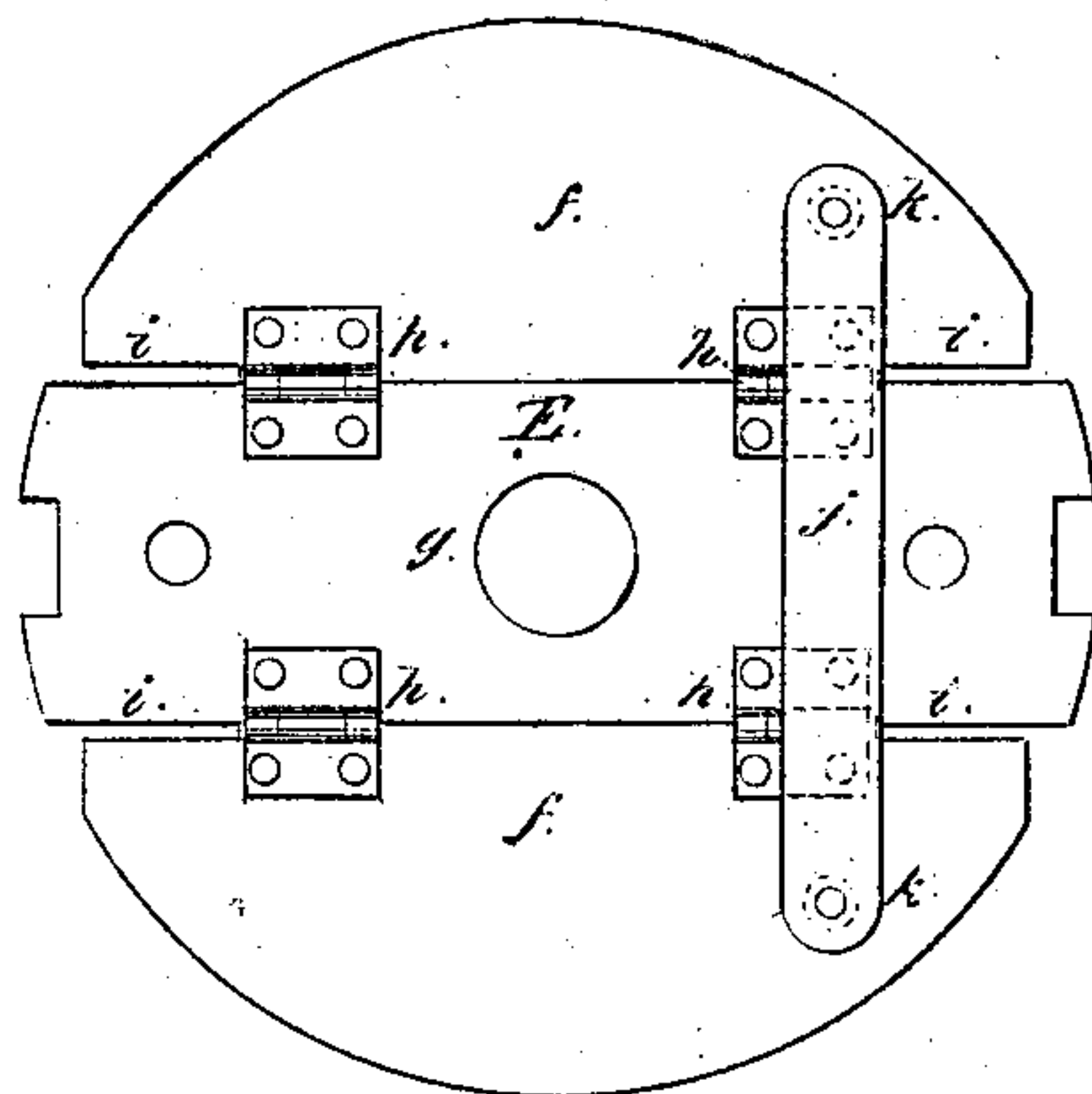


Fig. 3.



UNITED STATES PATENT OFFICE.

PHILIP N. WOLISTON, OF SPRINGFIELD, OHIO.

WASHING-MACHINE.

Specification of Letters Patent No. 18,168, dated September 8, 1857.

To all whom it may concern:

Be it known that I, PHILIP N. WOLISTON, of Springfield, in the county of Clark and State of Ohio, have invented a new and Improved Clothes-Washing Machine; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1, is a vertical and central section of my improvement. Fig. 2, is a view of one of the sides or faces of the rubber disk. Fig. 3, is a plan or top view of the upper and stationary rubber disk.

Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to an improvement in what is known as tub washing machines in which a rotating reciprocating rubber disk is placed within a tub, the disk and bottom of the tub having fluted or corrugated surfaces.

My invention consists in having an auxiliary rubber disk which is adjustable, that is, may be raised or lowered and having its under surface fluted or ribbed and having the upper surface of the usual rubber disk also fluted or ribbed, and the whole arranged in such a way, that the process of washing is greatly expedited and the machine rendered capable of being so adjusted as to wash perfectly either coarse or fine clothes.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A, Fig. 1, represents the tub which may be constructed in the usual manner and B, is the usual rubber disk which is of circular form and fitted permanently on a vertical shaft C, which is placed within the tub at its center. The lower end of shaft C, rests on a step (a), at the center of the bottom of the tub and the upper part passes through the center of a cross bar (b), the ends of which are received or notched so as to fit on uprights (c), (c), attached to the tub A, at opposite sides, the bar (b), being sustained at any desired height by pins (d), which pass through either of a series of holes in the uprights. A horizontal handle or bar (d), is fitted on the shaft C.

To each end of the cross bar (b), a pendant rod (e), is attached and the auxiliary

rubber disk E, is attached to the lower ends of these rods, the disk E, is formed of three parts (f), (f), (g). The center portion (g), is attached to the rods (e), (e), and the parts (f), (f), are attached by hinges (h), to opposite sides of the central part (g) as shown clearly in Fig. 3. The space between the inner edges of the parts (f), and the edges of the part (g), at the outer sides of the hinges are a little enlarged as shown at (i), so as to serve as holders or clamps to retain or hold the clothes, and the parts (f), (f), which may be termed flaps are retained in a horizontal position or prevented from being thrown upward, by means of a bar (j), the ends of which are perforated and are fitted on pins (k), one on each part or flap.

The bottom of the tub A, both sides or faces of the rubbers of the rubber disk B, and the under surface of the disk E, have projecting cleats or rubbers (b) attached to them as shown in Fig. 2, the cleats or rubbers being precisely the same on all the disks. The disk B, has holes (m), made through it near its periphery as shown clearly in Fig. 2.

The operation is as follows: The tub A, is supplied with a requisite quantity of suds and the coarser clothes are placed below the rubber disk B, between it and the bottom of the tub. The finer clothes are placed between the auxiliary rubber disk E, and the upper surface of disk B. A rotating reciprocating motion is given the disk B, and the two kinds of clothes are washed at the same time. The finer clothes may be subjected to a greater or less pressure as desired by adjusting the rubber disk E, higher or lower by means of the pins (d), and the finer clothes are held stationary by placing one end in the spaces (i), between the back edges of the flaps (f), and the edges of the central portion (g), of the disk E. To place the clothes in the bottom of the tub both rubber disks B, E, are raised but the flaps (f), are only raised to place the finer clothes below the disk E. By this improvement it will be seen that both qualities of clothes may be washed at the same time and the finer kinds may be subjected to a greater or less pressure, or, as much as they will bear without being injured. This is an important feature in the invention and I am not aware that any machines of this sort have been so arranged that finer clothes

could be washed with safety and at the same time with coarse clothes. Hence the labor and time hitherto required in washing will be materially reduced.

5 I do not claim the tub A, provided with a rotating reciprocating rubber disk, for this is a well known device and has been previously used; neither do I claim any particular form of cleats or rubbers (b), on the
10 rubber disks; but,

Having thus described my invention,

what I claim as new, and desire to secure by Letters-Patent, is:

The auxiliary rubber disk E, in combination with the disk B, provided with cleats 15 or rubbers (b), on both sides, and the cleats (b) on the bottom of the tub A; the whole being arranged for the purpose set forth.

PHILIP N. WOLISTON

Witnesses:

E. NUNNEMAKER,
CHAS. J. RAMSAY.