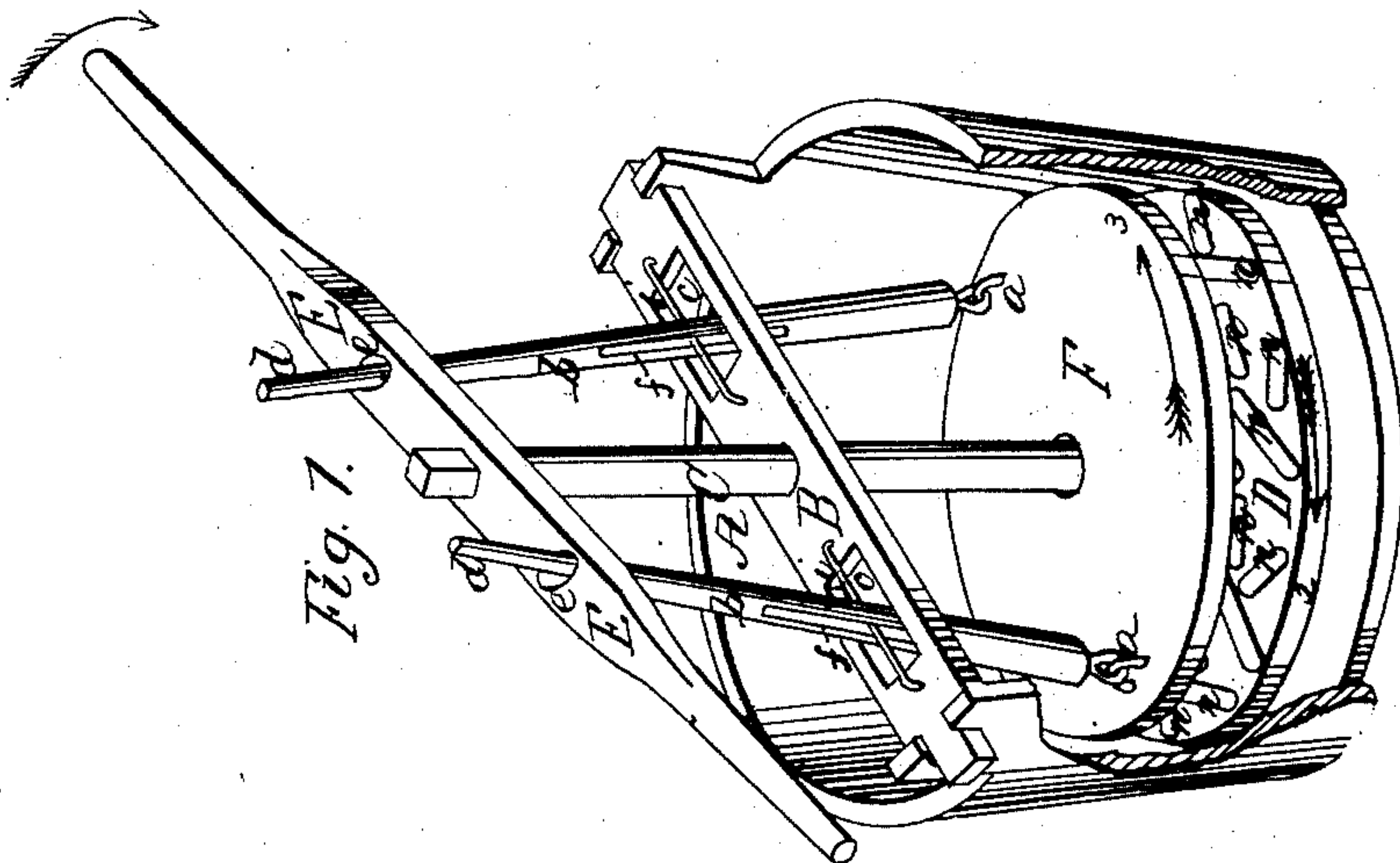
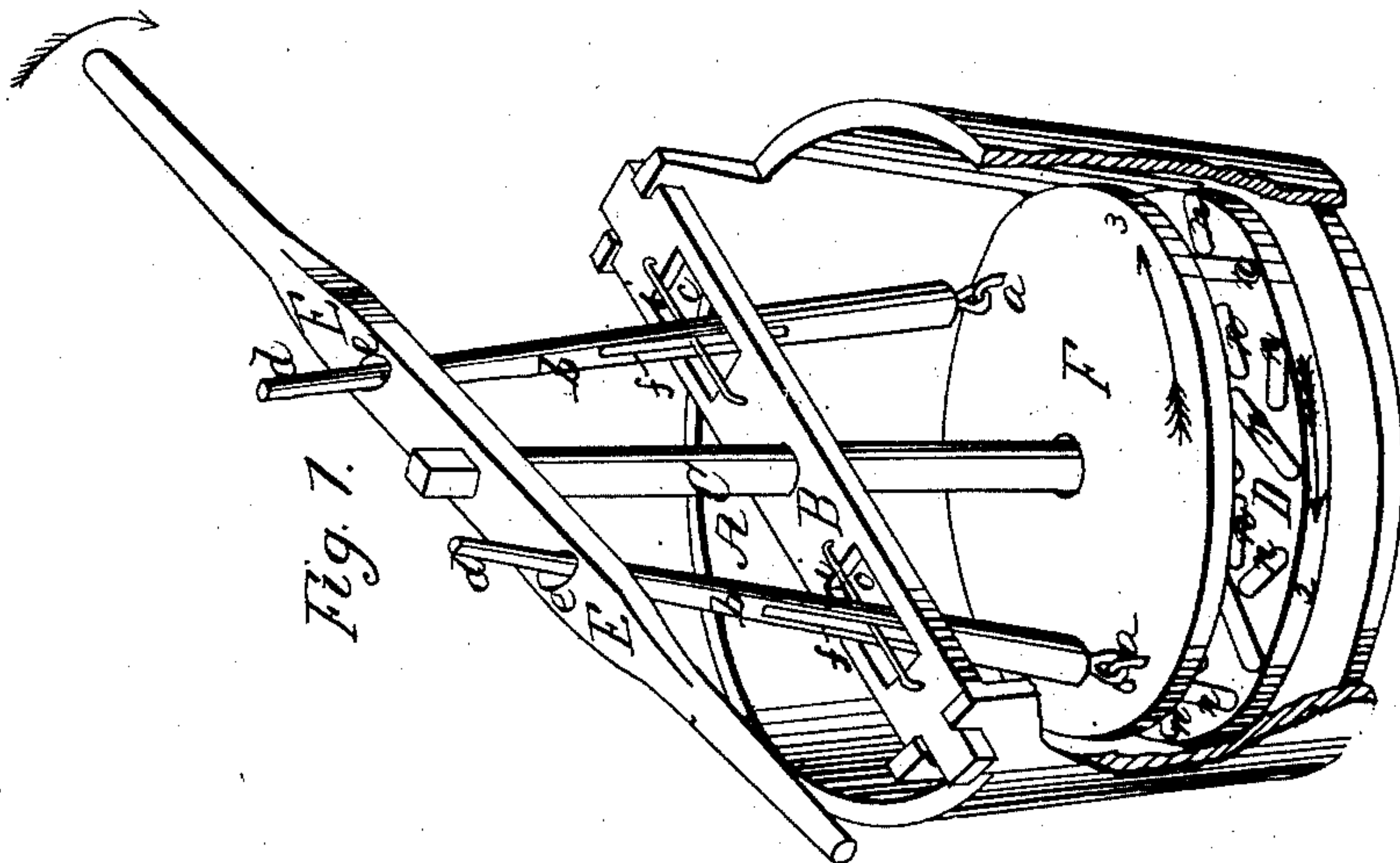
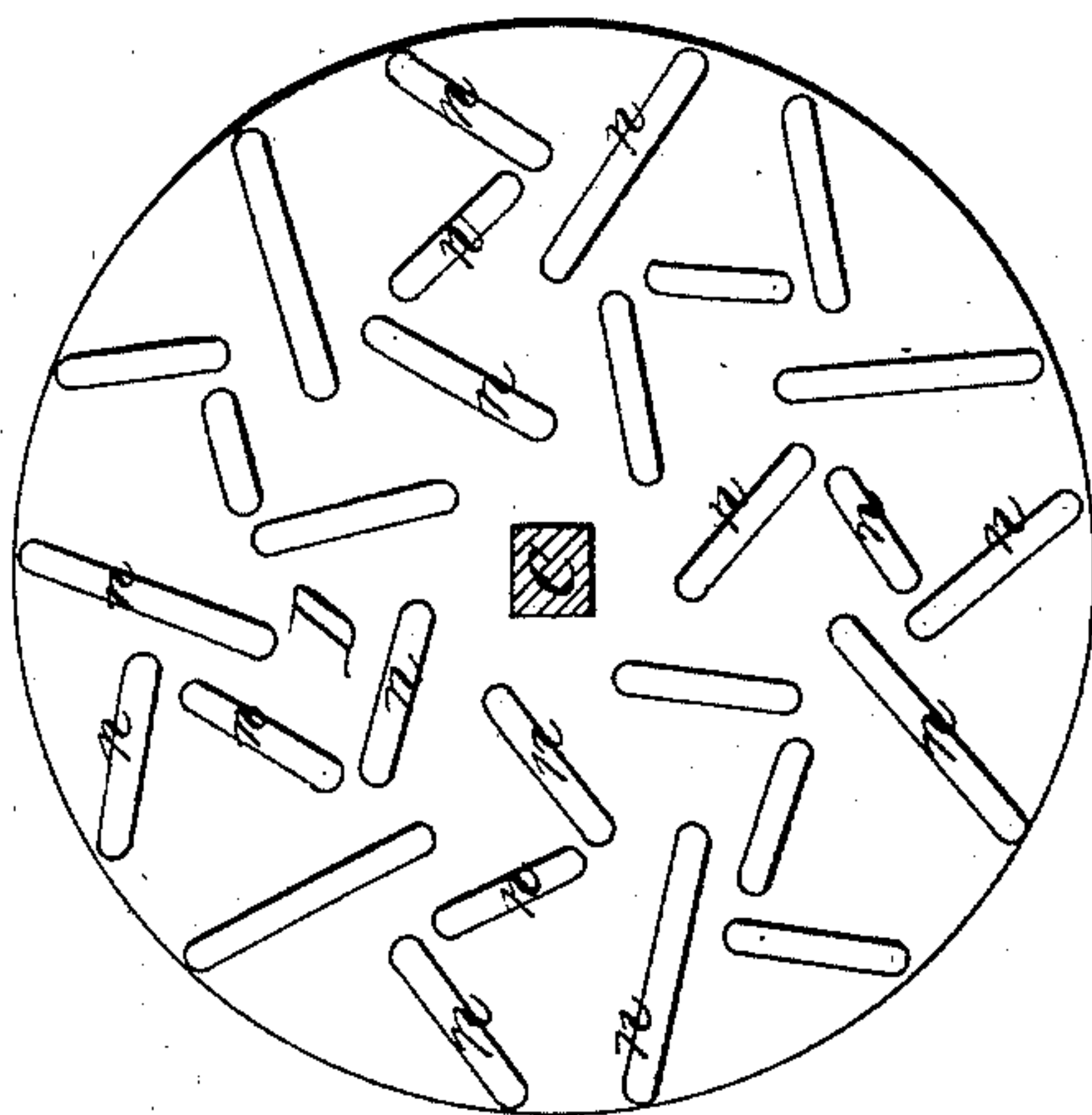


S. W. Cole,

Washing Machine.

N^o 2,653.

Patented Oct. 5, 1858.



UNITED STATES PATENT OFFICE.

SAMUEL W. COLE, OF MILLINGTON, MARYLAND.

WASHING-MACHINE.

Specification of Letters Patent No. 21,653, dated October 5, 1858.

To all whom it may concern:

Be it known that I, SAMUEL W. COLE, of Millington, in the county of Kent and State of Maryland, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1, represents a perspective view of the machine, with a portion of the front of the tub broken away, to show the parts behind it. Fig. 2 represents a plan of one of the faces of the rubbing disks, showing the arrangement of the blocks or ribs thereon.

My invention consists in the peculiar manner in which I have connected the rubbers with a lever, and with the tub, so that the working of the lever, shall give an alternating rotary motion to the rubbers, in contrary directions.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawings.

A, represents an ordinary tub, across the top of which there is a bar B, and through this bar B passes the shaft or rod C, to which, the lower washboard, or rubbing board D, is permanently attached, so that both shaft and washboard shall move together. On the underside of the lower wash board D, there is a point or pivot which takes into a step on the bottom of the tub, so that the wash boards may not get out of place. To the top of the shaft C, there is affixed a lever E, by which it may be turned.

F, is an upper wash board which may rest upon the lower one D, or upon the clothes between them that are to be washed. To the top of this upper wash board, are hinged at *a, a* to levers *b, b*, which pass up through slots *c, c* in the cross brace or bar B, and their tops *d, d*, pass through holes *e, e*, in the lever E, said holes being large enough to give said ends *d, d*, considerable play therein. In the levers *b, b*, near where they pass through the cross brace B, there are slots *f, f*, through which rods *i, i*, pass,

that are fastened to said cross bar. These rods *i, i*, are the fulcra of the levers *b, b*, and the slots in said levers, allow the upper wash board to rise or lower, for the purpose of introducing and containing more or less pieces at a time as may be desired.

The two adjacent faces of the wash boards, are furnished with rounded slats, ribs or projections *n*, which form a rubbing surface or surfaces between which the clothes are washed. It will be seen that the wash boards may be farther from, or nearer to each other, without affecting their rotation from the lever E. When the lever E, is moved in the direction of the arrow 1, the rubbing board D moves in the same direction, as shown by the arrow 2. But the upper rubbing board E, by said motion, is moved in a contrary direction as shown by the arrow 3, and a reversed motion of the lever, reverses the motion of the washboards, causing their ribs *n* to cross each other which with the clothes between them effects the washing.

By simply changing the water, the rinsing, and bluing may be done in the same tub, and by the same operation as the washing.

This arrangement of parts, and operation, makes a very simple, cheap and efficient washing machine.

Having thus fully described the nature and object of my invention, I would state that I am aware that two rubbing surfaces moving in contrary directions have been used in washing machines. This I do not claim, but

What I do claim as new and desire to secure by Letters Patent is—

The combination of the lever E, shaft C, and hinged levers *b, b*, with each other, and with the rubbers D, F, for the purpose of moving said rubbers in contrary directions at the same time, and allow the upper rubber to rise and fall to adapt itself to the clothes. The whole being arranged and operating as herein set forth.

SAML. W. COLE.

Witnesses:

A. B. STOUGHTON,
THOS. H. UPPERMAN.