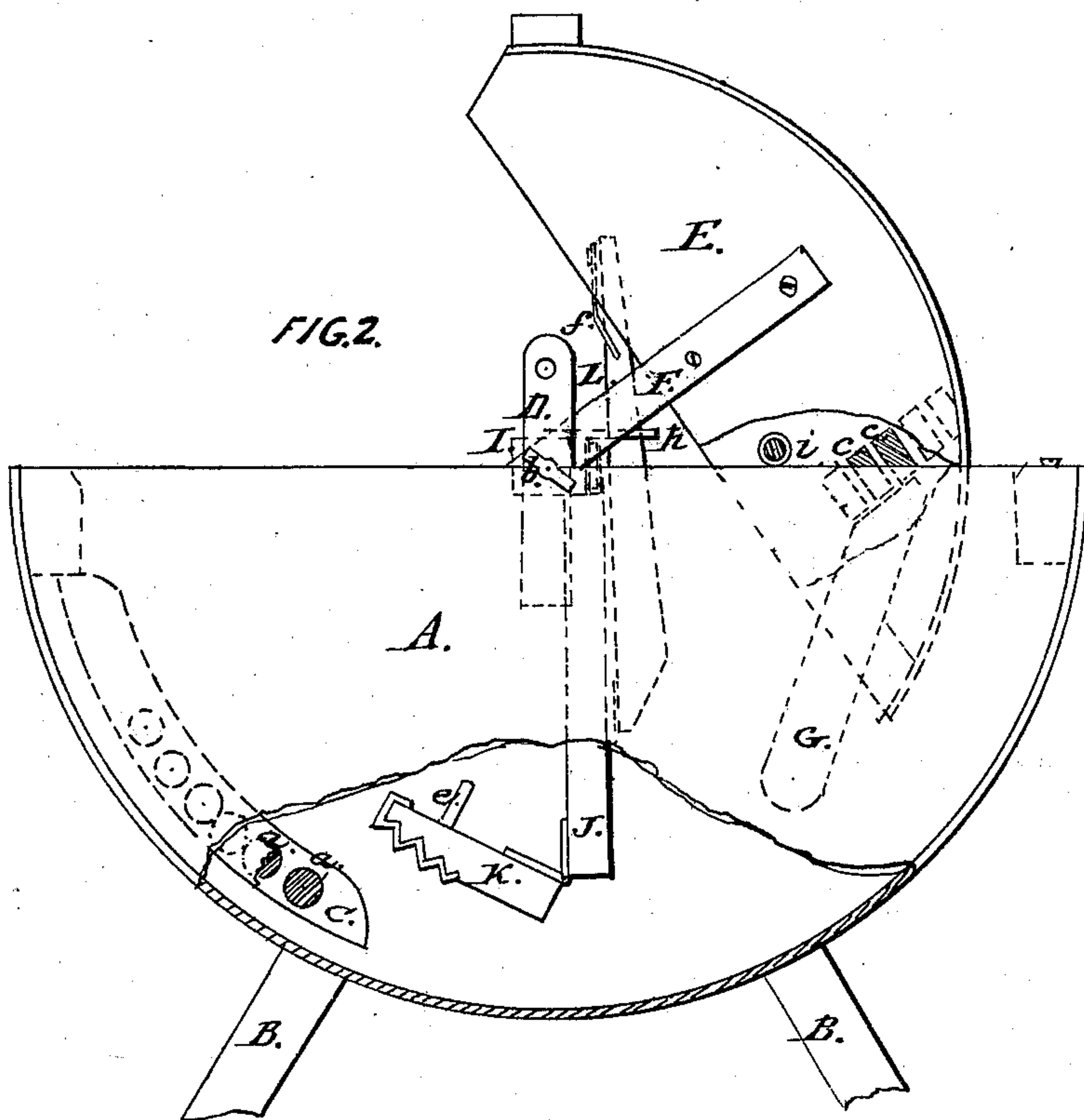
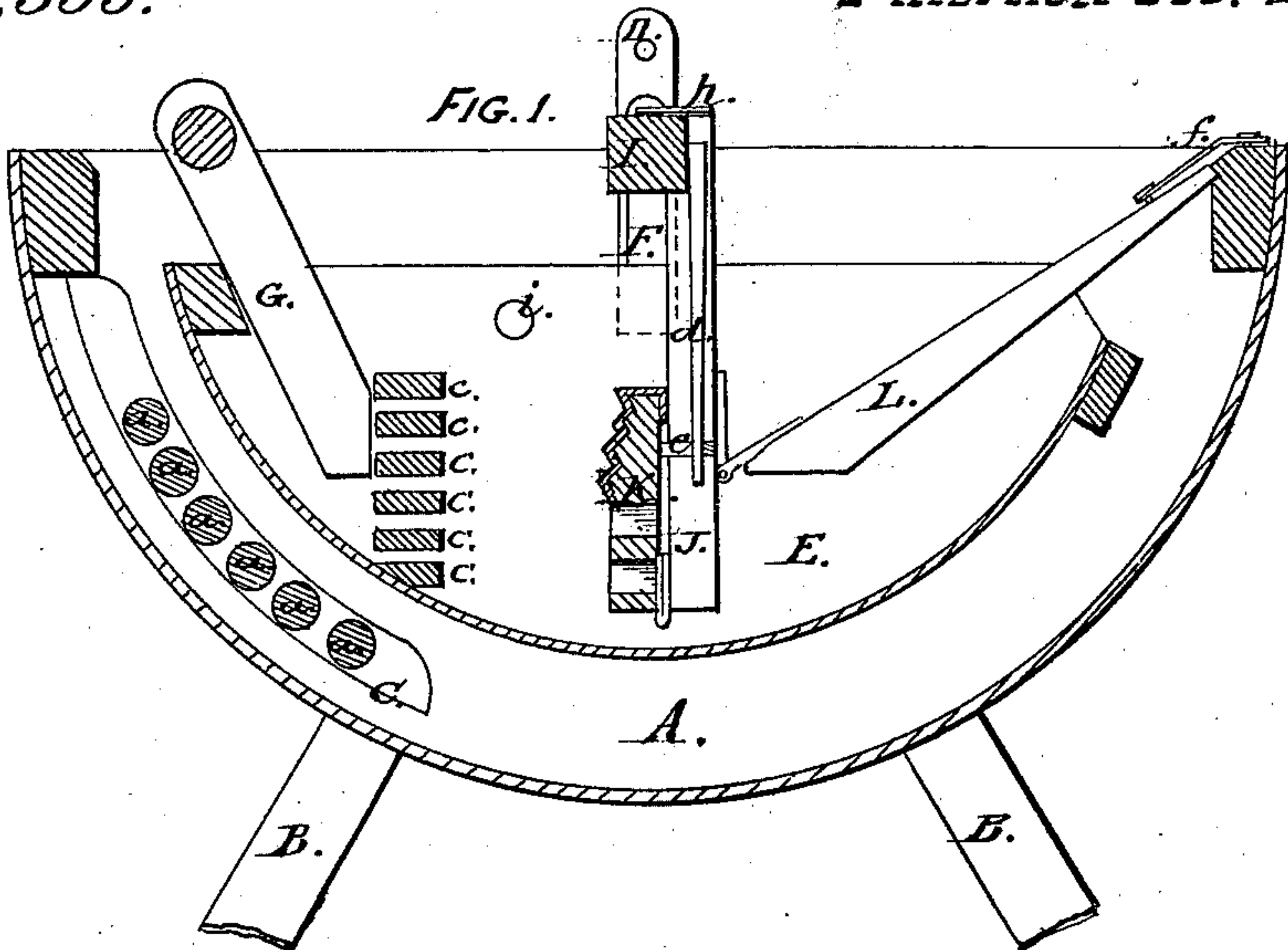


J. J. Koch.

Washing Machine.

No. 86,555.

Patented Feb. 2, 1869.



WITNESSES:

Leopold Evert  
Harry King.

INVENTOR:

John J. Koch  
per  
Alexander Mason  
attorneys.



# United States Patent Office.

JOHN J. KOCH, OF REPUBLIC, OHIO.

Letters Patent No. 86,555, dated February 2, 1869.

## 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, JOHN J. KOCH, of Republic, in the county of Seneca, and in the State of Ohio, have invented certain new and useful Improvements in Washing-Machine; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in the construction and general arrangement of a "washing-machine," which will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, which form a part of this specification, and in which—

Figure 1 is a transverse vertical section, and

Figure 2 is a side elevation, part in section.

A represents a stationary semicircular tub, resting on legs B B, and having along one side a series of small rollers, *a a*, which have their bearings in curved slats *c c*, secured one to each end of the tub.

From the centre of each end of the tub A, a standard, D, projects upwards, and from these standards a smaller tub, E, is suspended, by means of the set-screws *bb*, which pass through the standards D D, and through similar standards, F F, on the inner tub.

At the front side of the movable tub E are placed two arms G G, one at each end, which are connected by means of a cross-bar, H, forming a handle for working the tub backwards and forwards on its pivots, the set-screws *b b*.

In the ends of the tub E, near the front side, are secured a series of slats *c c*, placed one above the other, a suitable distance, and running the whole length of the tub from end to end.

Across the centre of the two tubs, A and E, is placed a shaft, I, which is held by the two set-screws *b b*, these screws thus forming pivots on which the shaft may revolve.

From the shaft I, two arms J J descend into the inner tub E, and to the lower ends of said arms the rubber-board K is hinged, as shown in the drawings.

Another arm, *d*, is pivoted to the shaft I, and when turned downwards, is inserted into a loop or angular bar, *e*, on the rear side of the rubber, thus holding the same in an upright position, as shown in fig. 1.

The rubber K is perforated along the lower half, and the upper half is corrugated lengthwise, as shown.

The shaft I from which the rubber is thus suspended, is prevented from turning on its pivots, by means of two braces L L, hinged to the arms J J, and secured at the rear side of the tub A by hooks *f f*.

The machine is now in position for operating, the clothes being placed between the rub-board K and the slats *c c*. For the purpose of removing the clothes, unhook the arms or braces L L, and throw the rub-board backward over the machine.

Another mode of operating the machine is: replace the rub-board K to its original position, with the exception of hooking up the braces L L by means of the hooks *h h* on top of the shaft I. Then turn the revolving-tub E forward one-half round, and place a pin in the hole *i*, in the end of the tub, which will hold it in the position shown in fig. 2.

Place the clothes in the stationary tub A, release the rub-board K, by turning the arm *d* out of the loop *e*, in which position it can be used as an ordinary rub-board, rubbing the clothes between the rub-board K and the rollers *a a*.

Having thus fully described my invention,

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

1. The combination of the two rubbing surfaces, *a a* and *c c*, with the hinged dash-board K, attached to the arms J, as and for the purposes described.

2. The arrangement of the swinging shaft I, arms J J, hinged rub-board K, loop *e*, arm *d*, and braces L L, all constructed and operating substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand, this 3d day of December, 1868.

JOHN J. KOCH.

Witnesses:

ROBERT LYSLE,  
JOHN H. COOK.