

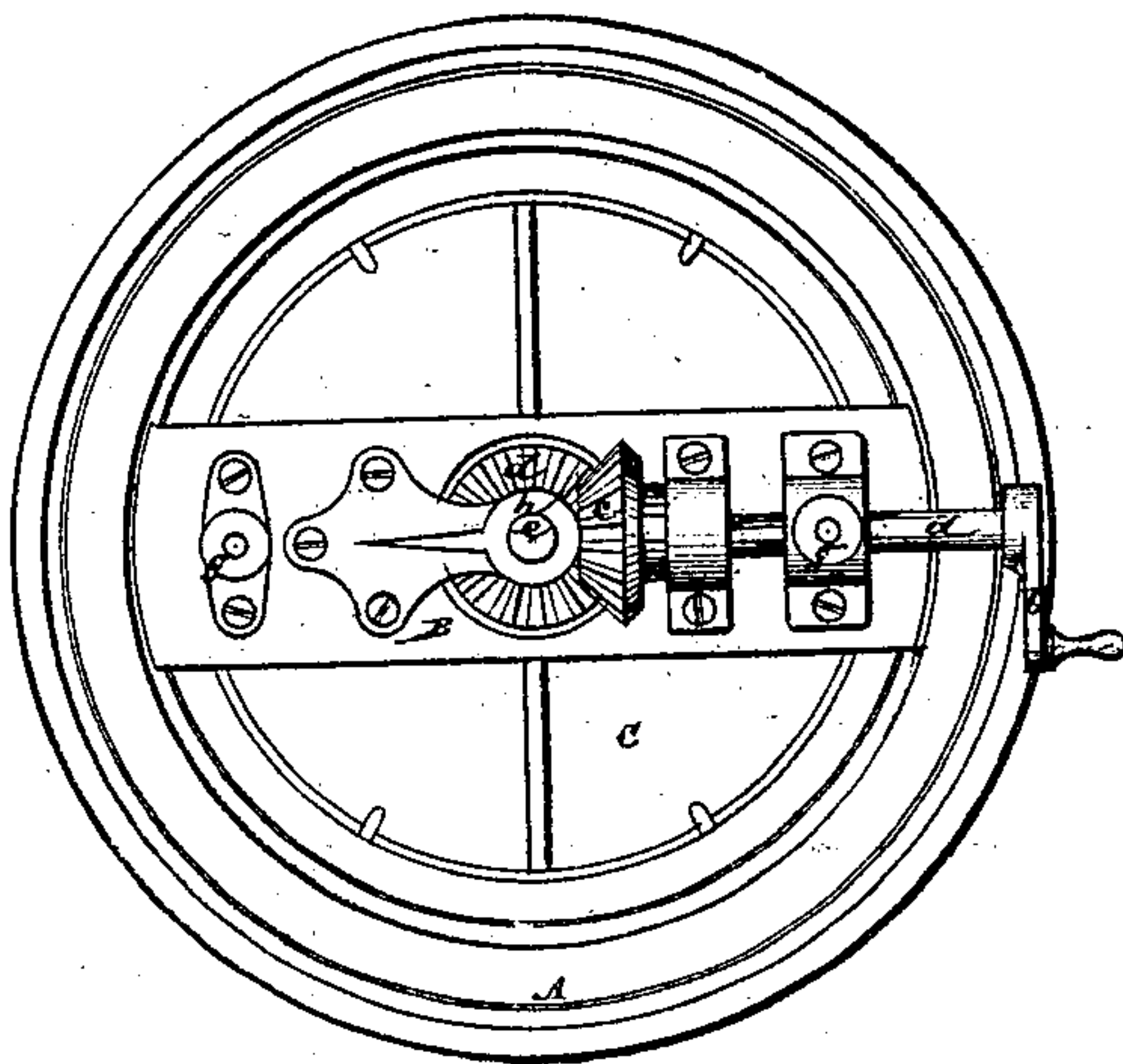
*C. F. Dodge,*

*Washing Machine.*

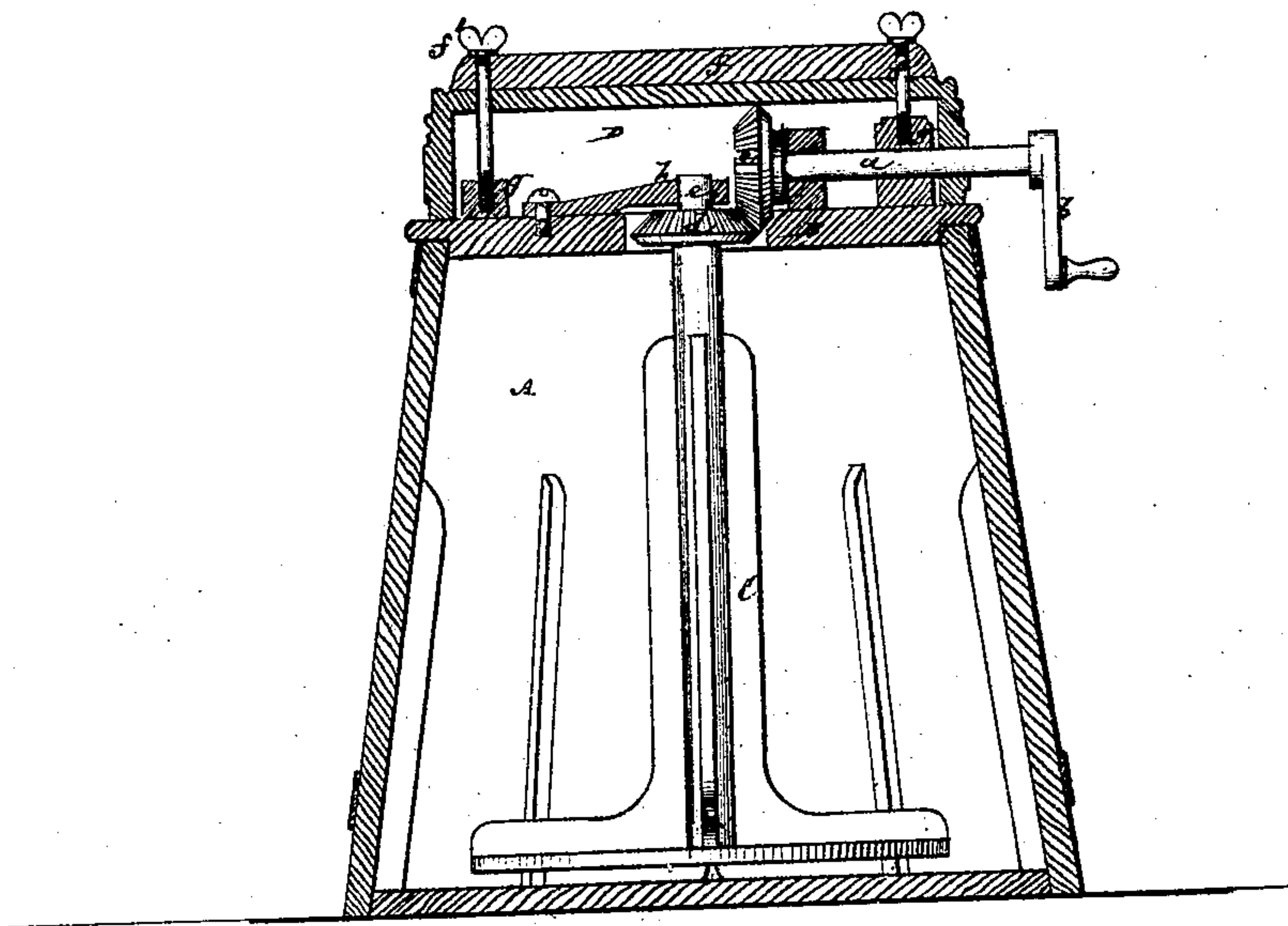
*No. 95573*

*Patented Oct. 5. 1869.*

*Fig. 2.*



*Fig. 1.*



*Witnesses:*

*Fred. Haynes*  
*R. E. Rabalais*

*Chas. F. Dodge*



# United States Patent Office.

CHARLES F. DODGE, OF NEW YORK, N. Y.

Letters Patent No. 95,573, dated October 5, 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, CHARLES F. DODGE, of the city, county, and State of New York, have invented a new and useful Improvement in Washing-Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming part of this specification, and in which—

Figure 1 represents a sectional elevation of a washing-machine constructed in accordance with my improvement; and

Figure 2, a plan of the same, with a box that encloses the gearing, and serves as a support for the attachment of a wringer, removed.

Similar letters of reference indicate corresponding parts.

My invention relates to a well-known description of washing-machine; and consists in a special construction of certain parts, whereby increased facility is afforded for fitting together or taking apart the machine, and space reduced in packing the same for transportation.

Referring to the accompanying drawing—

A represents the tub of the washer, which may be covered by loose or hinged lids, arranged on either side of a cross-bar, B, that is secured by screws made to pass through the sides of the tub, said bar serving to carry, by suitable bearings thereon, the operating-shaft *a*, with its crank or handle, *b*, and bevel-pinion *c*, by which the revolving-stirrer C is driven through a bevel-pinion, *d*, on its vertical shaft, *e*.

Said stirrer is made up of a disk and wings that operate in connection with vertical ribs, arranged on or around the inside of the tub, or it may otherwise be suitably constructed.

D is a box or barrel-shaped covering, set on top of the bar B, and serving to enclose the gearing, also answering as a support for the attachment of a wringer by or through a rib, *f*.

Such constitutes an ordinary and well-known description of washing-machine that, while perfect as regards its working-qualities, presents, as the same has heretofore been constructed, certain difficulties or objections, as regards fitting together or taking apart and packing of said machines for transportation, which it is the object of my invention to remove.

Thus, it has been customary to attach the box or barrel-like covering D, by pins made permanent in the bar B, and arranged to project upward through the box for holding down nuts to screw on their upper ends.

This is objectionable, both as to the fitting and

taking apart the machine, inasmuch as the box is apt to stick on the pins as well as to the surface of the bar B, but mainly on account of the projection of said pins above the lids or upper edge of the tub, that not only interferes with the packing of the machines in the crates they are usually transported, but exposes them to being bent or broken, if left uncovered, by the box D, which, accordingly, is left secured to its place on the bar B, that cannot very conveniently be removed, or, if detached, requires some skill and considerable labor to fit the parts together again, owing to the upper journal of the stirrer-shaft *e* being invariably below the driving-pinion *d*, which, accordingly, would have to be first taken off.

All these difficulties I obviate, first, by substituting for the fast pins and upper nuts, which have been used to hold the barrel or box D to the bar, thumb-screws *f' f'*, capable of operation from above, and arranged to screw into fixed nuts or boxes, *g g*, connected with the bar B, so that on unscrewing and lifting out or removing said thumb-screws, the box D is at liberty to be taken off, and no fastening-pins are left projecting or standing.

Furthermore, the upper journal, *h*, to the vertical stirrer-shaft *e*, I arrange above the pinion *d*, and connect it with the bar B, so that on taking out the end screws, which secure said bar to the tub, and raising the bar, the journal *h* is slipped off or over the shaft *e*, without any disturbance of the pinion *d*.

By this construction I am enabled to detach and pack within the tub both the box D and the bar B, with its attachments, and so incline or tilt the stirrer and its shaft as that the whole are readily stowed away within the tub, and below the upper edge thereof, which, in packing a number of such machines within a crate, largely economizes space and reduces freight, also affords protection against breakage or injury, nor is this accompanied by any difficulty in fitting the parts together on arrival at their destination or placing of the machines in working order on the market.

What is here claimed, and desired to be secured by Letters Patent, is—

The combination, with the box or barrel D of the machine, and cross-bar B, of the thumb-screws *f' f'*, arranged to enter from above, and made to fit boxes or nuts connected with said bar, substantially as shown and described.

CHAS. F. DODGE.

Witnesses:

FRED. HAYNES,  
HENRY PALMER.