

No. 837,747.

PATENTED DEC. 4, 1906.

J. STAUDER.
WASHING MACHINE.
APPLICATION FILED FEB. 15, 1905.

2 SHEETS—SHEET 1.

FIG. 1.

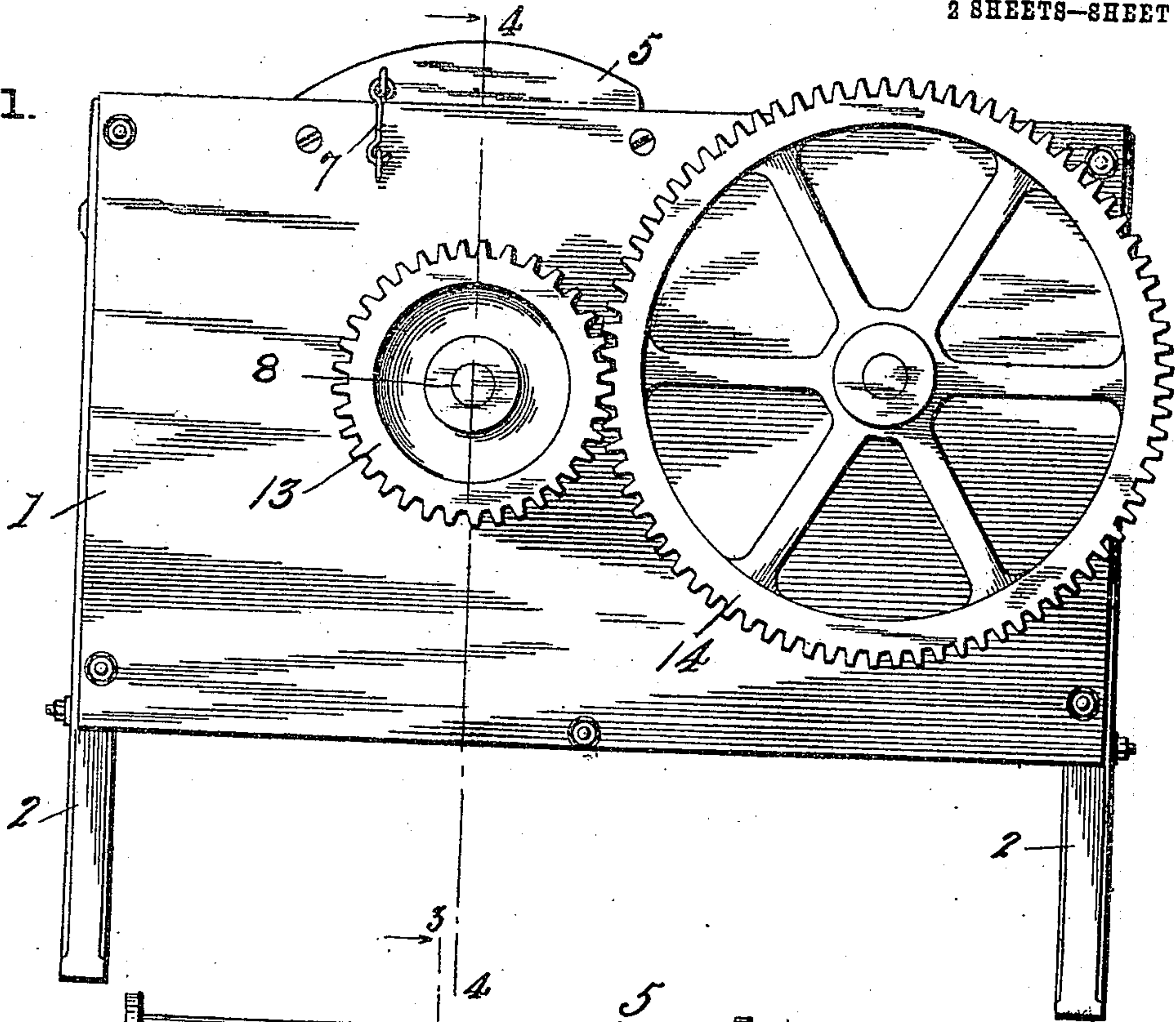
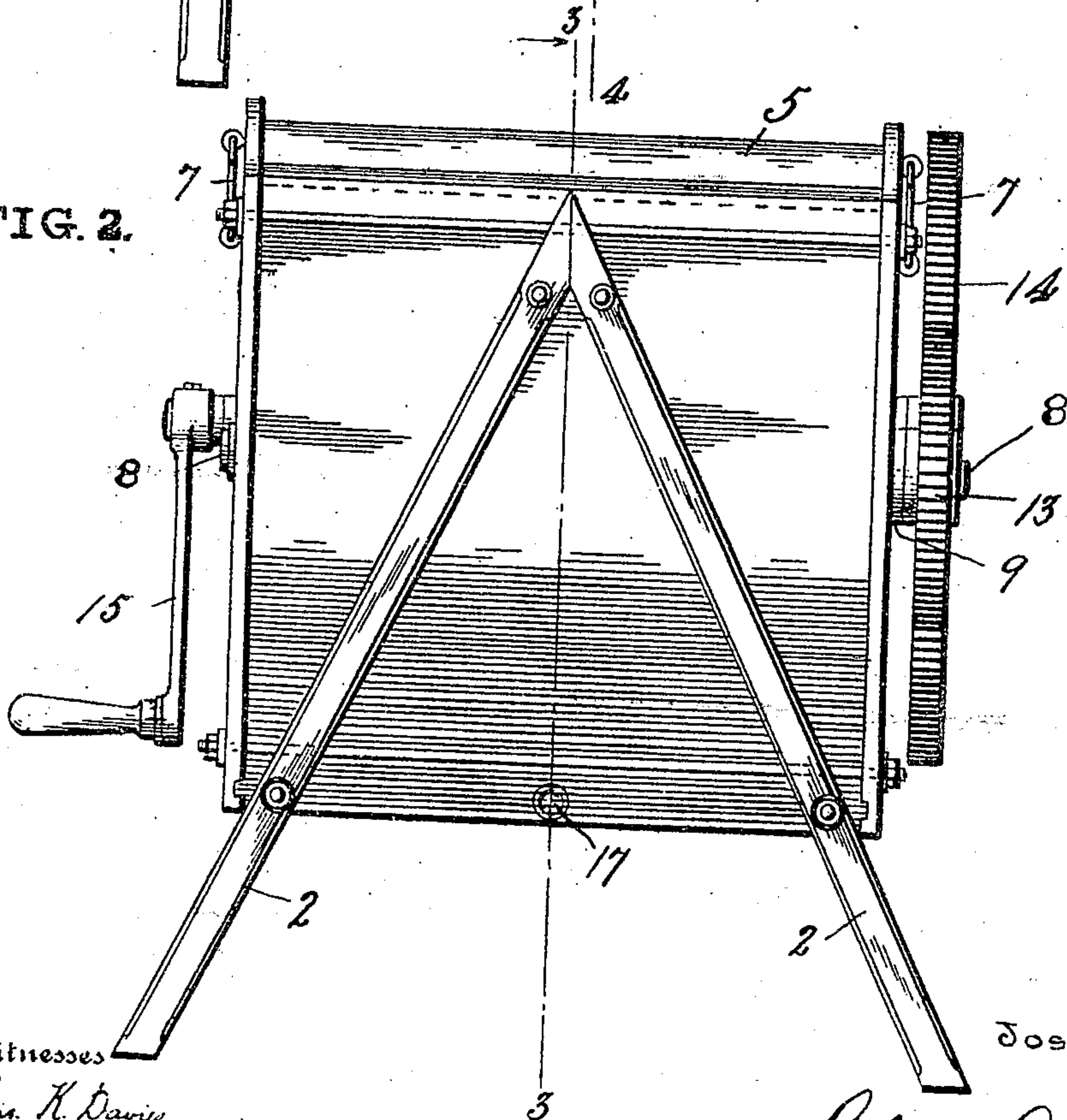


FIG. 2.



Witnesses

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2 SHEETS—SHEET 2

FIG. 3.

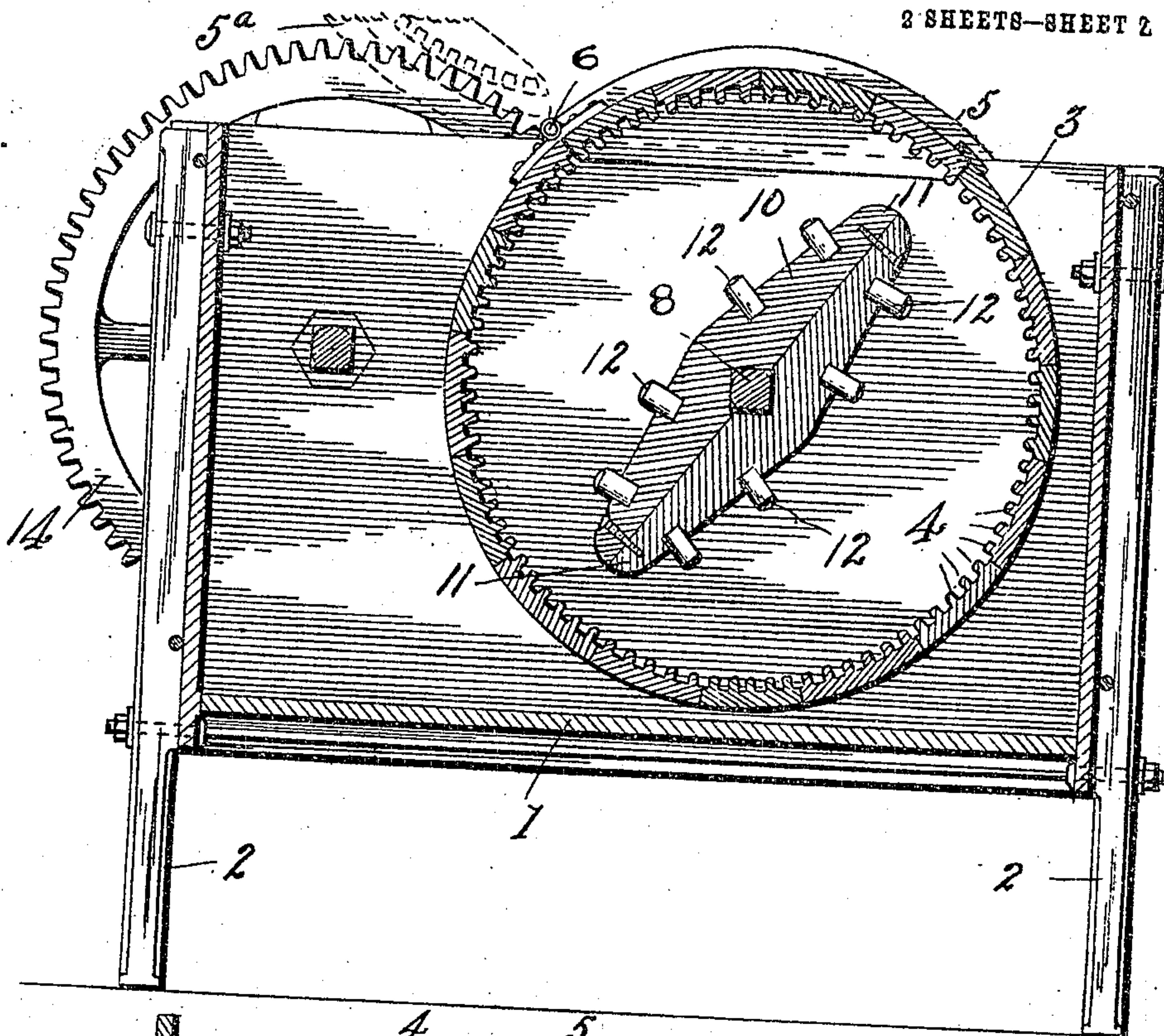
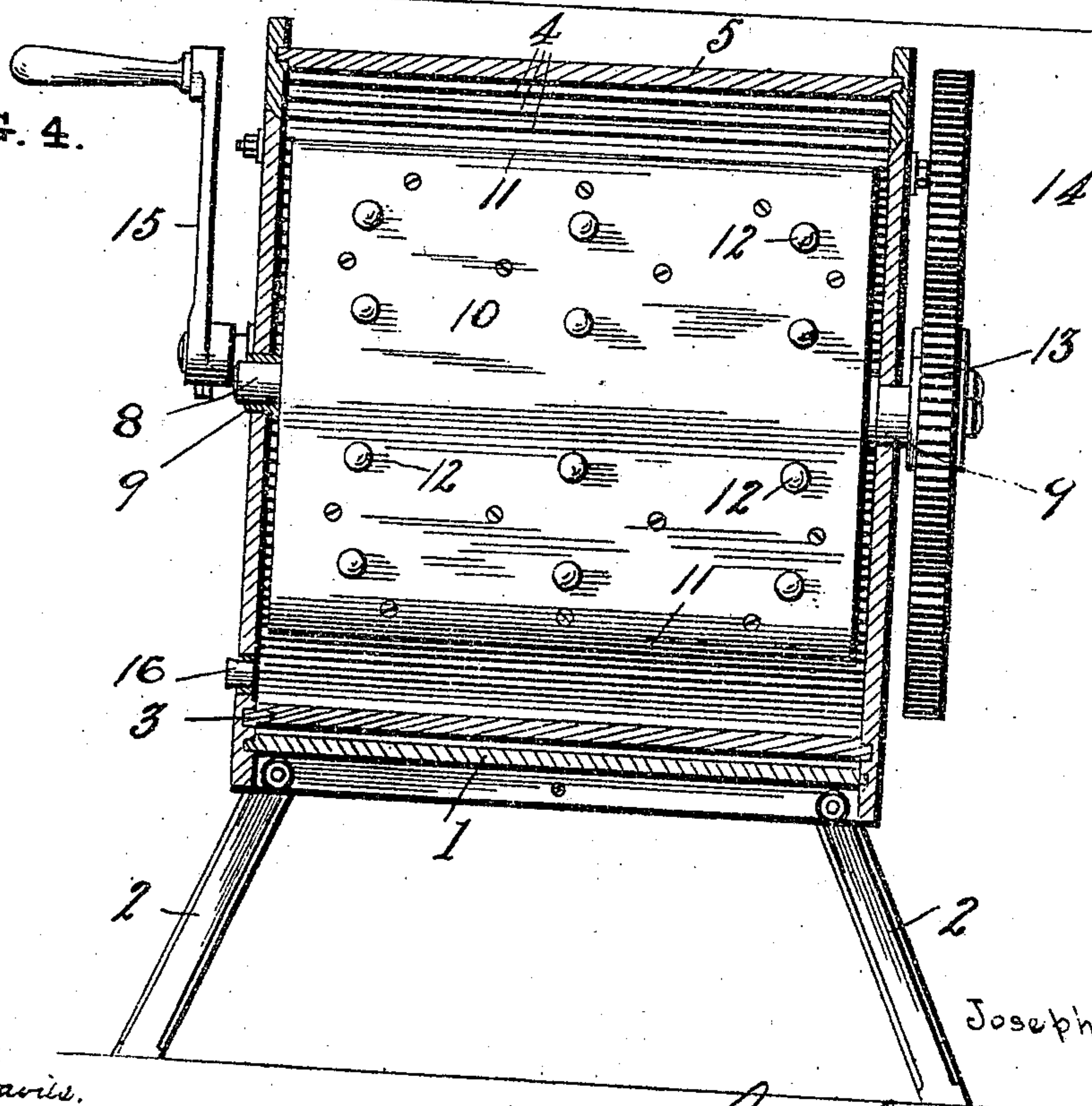


FIG. 4.



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UNITED STATES PATENT OFFICE.

JOSEPH STAUDER, OF MOUNT VERNON, NEW YORK.

WASHING-MACHINE.

No. 837,747.

Specification of Letters Patent.

Patented Dec. 4, 1906.

Application filed February 15, 1905. Serial No. 245,759.

To all whom it may concern:

Be it known that I, JOSEPH STAUDER, a citizen of the United States, residing at Mount Vernon, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Washing-Machines, of which the following is a specification.

My invention relates to washing-machines, and has for its object to provide a machine wherein the washing is accomplished by the rubbing of the goods upon a corrugated surface and impelled by a rotary beater.

A further object of my invention is to provide a washing-machine having two compartments within which the several processes of washing may be independently and simultaneously carried on.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims.

In the drawings, Figure 1 is a view in side elevation of my improved washing-machine. Fig. 2 is a view of my improved washing-machine in end elevation. Fig. 3 is a longitudinal vertical sectional view of my improved washing-machine, taken on line 3 3 of Fig. 2. Fig. 4 is a transverse vertical sectional view of my improved washing-machine, taken on line 4 4 of Fig. 1.

Like characters of reference designate corresponding parts throughout the several views.

In its preferred embodiment my improved washing-machine comprises a tank 1, mounted in any convenient manner, as upon the legs 2.

Within the tank 1 is mounted a cylindrical box 3, extending transversely entirely across one end of the tank 1. The cylindrical box 3 is provided with the corrugations 4, covering the entire curved surface thereof and extending longitudinally of the cylinder. A cover member 5 in the form of an arc is provided with its interval curved surface provided with corrugations similar to and forming a continuation of the corrugations of the cylindrical box. The cover 5 may be mounted upon the cylinder 3 in any approved manner, as by the hinges 6, and secured in closed position by any form of latch, as the hook 7.

A shaft 8 is disposed axially, extending entirely across the cylindrical box 3 and mount-

ed to rotate as in the bearings 9, secured to the ends of the cylinder. Upon the shaft 8 is mounted a beater 10, extending longitudinally approximately the entire length of the cylinder 3, but having a width somewhat less than the diameter of the cylinder. The beater 10 tapers from its middle point toward the edges and terminates in rounded and smooth edges parallel with the axis. The surfaces of the beater 10 are provided with a plurality of outstanding lugs terminating in rounded and smooth ends. One end of the shaft 8 upon which the beater is mounted extends through the end of the cylindrical box 3, which may also be the side wall of the tank 1. Upon the extended end of the shaft 8 is secured any approved means for rotating the beater—as the pinion 13, engaging with the spur-wheel 14, which, in turn, is adapted to be rotated by the crank 15. The cylindrical box 3 is provided with means for withdrawing a fluid therefrom, as the plug 16, serving to close an opening through the end of the cylinder. The tank 1 is also provided with means for withdrawing a fluid therefrom, as the plug 17, (shown in Fig. 2,) stopping an opening through the end wall thereof.

The operation of my improved washing-machine is as follows: The cover 5 being opened to the position 5^a, goods to be washed and the fluid for washing may be introduced into the open top of the cylinder 3 in such quantities as may be found to be desirable. The cover 5 being then closed and secured by the latches 7, the crank 15 is rotated, which rotates the spur-wheel 14 and pinion 13, thereby producing a rotary movement of the beater 10. The rotation of the beater 10 lifts and turns the articles in the cylinder and rubs them continuously against the corrugations 4. The lugs 12 prevent the goods from slipping too freely from off the beater 10, thereby facilitating the turning and lifting. When the washing has been advanced to the desired stage, the cover 5 may be opened and the goods lifted out for further processing, as for rinsing in the tank 1. A wringer may also conveniently be secured to the walls of the tank 1 for expressing the fluid from the goods.

Having thus described my invention, what I claim as novel, and desire to secure by Letters Patent, is—

1. A washing-machine comprising a cylinder provided with corrugations upon its inner peripheral surface and a rotative beater concentrically disposed within said cylinder,

said beater having in cross-section the form of two acute-angle triangles placed base to base with the apices of the triangles rounded.

2. A washing-machine comprising a cylinder provided with longitudinally-extending corrugations throughout its entire inner peripheral surface and a rotative beater concentrically disposed within said cylinder, said beater having in cross-section the form of two acute-angle triangles placed base to base with the apices of the triangles rounded, and said beater being provided with a plurality of lugs outstanding from the flattened sides thereof.

3. A washing-machine comprising a cylinder provided with longitudinally-extending corrugations throughout its entire inner pe-

ripheral surface and a rotative beater concentrically disposed within said cylinder, said beater having in cross-section the form of two triangles of equal area placed base to base with the apices of the triangles rounded and equidistant from the inner corrugated surface of the cylinder, said beater being provided with a plurality of lugs outstanding from the flattened sides thereof and at an acute angle to the longitudinal plane of said beater.

In testimony whereof I affix my signature in presence of two witnesses.

JOSEPH STAUDER.

Witnesses:

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