

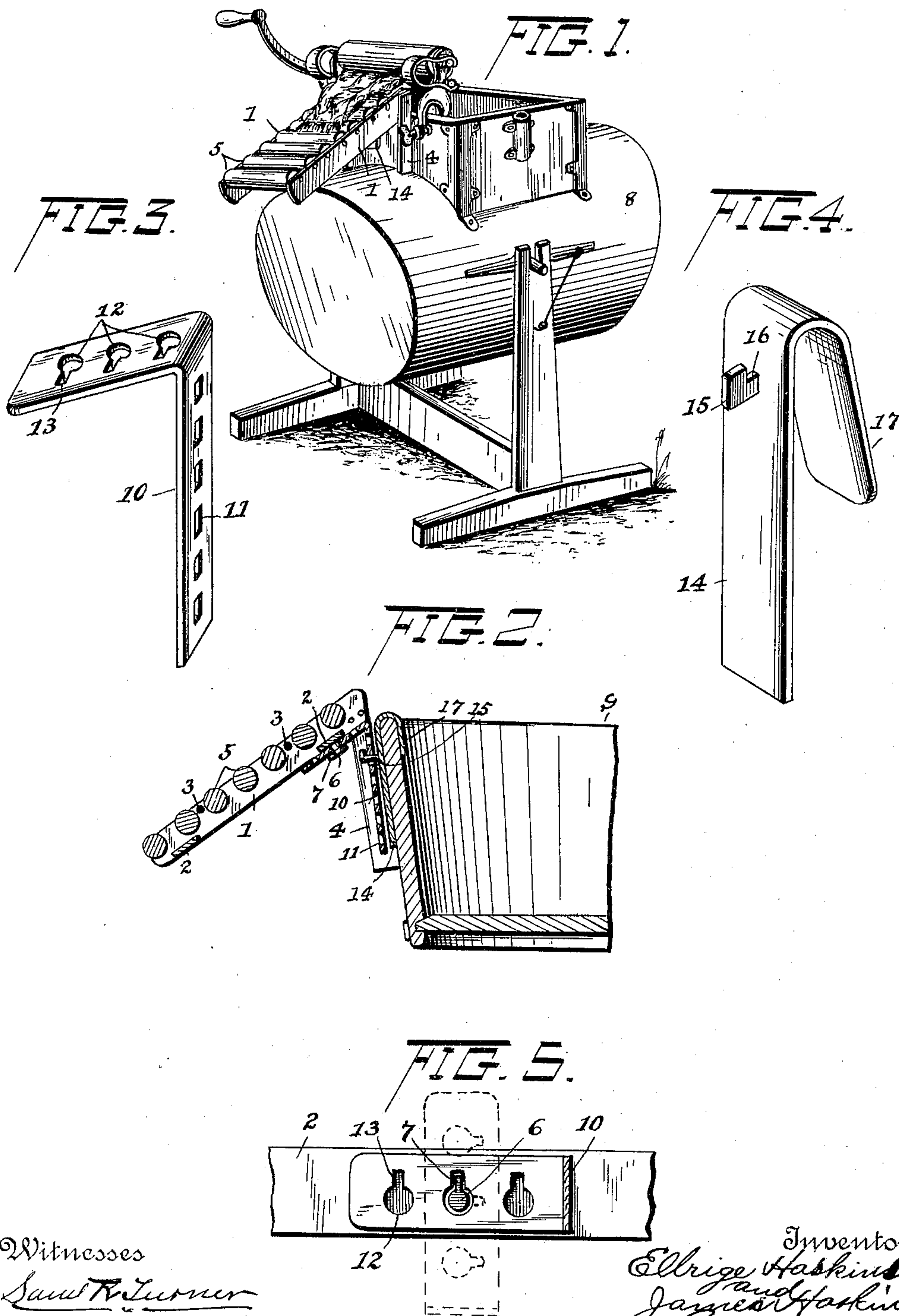
No. 628,797.

Patented July 11, 1899.

E. & J. HASKINS.
CLOTHES CONVEYER FOR WASHING MACHINES.

(Application filed Nov. 28, 1898.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

ELBRIGE HASKINS AND JAMES HASKINS, OF DETROIT, MINNESOTA.

CLOTHES-CONVEYER FOR WASHING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 628,797, dated July 11, 1899.

Application filed November 28, 1898. Serial No. 697,648. (No model.)

To all whom it may concern:

Be it known that we, ELBRIGE HASKINS and JAMES HASKINS, citizens of the United States, residing at Detroit city, in the county of Becker and State of Minnesota, have invented certain new and useful Improvements in Clothes-Conveyers for Washing-Machines, of which the following is a specification.

This invention relates to an attachment for washing-machines, and particularly to an improved device for conveying clothes and other articles from a washing-machine or clothes-boiler to a receptacle for receiving them.

The object of the invention is to provide a roller conveyer of novel and peculiar construction and means for adjustably connecting it to a washing-machine.

The invention consists in the construction and arrangement of parts, and resides, essentially, in a conveyer and means of adjusting it vertically and laterally upon a washing-machine or washboiler.

In the accompanying drawings, forming part of this application, Figure 1 is a perspective view of the conveyer attached to a modern swinging washing-machine, showing the conveyer taking clothes from a wringer. Fig. 2 is a sectional view showing the conveyer attached to an ordinary washtub, the latter being partly broken away and the wringer omitted. Fig. 3 is a perspective view of the angle-plate. Fig. 4 is a perspective view of the hooked plate or hanger. Fig. 5 is a detail view showing manner of connecting the angle-plate to the conveyer-frame.

The same numeral references denote the same parts throughout the several figures of the drawings.

The conveyer consists of a rectangular frame comprising side pieces 1, joined at each end by cross-bars 2 and braced by rods 3. The upper ends of the pieces 1 have depending members 4, and a series of rollers 5 are journaled in and between the side pieces 1, the upper one of the cross-bars 2 being provided on its under side with a headed pin or projection 6, having a lip 7.

The means for adjustably connecting the conveyer to the washing-machine 8 or tub 9 or any form of washing apparatus consists

of an angle-plate 10, the vertical portion of which has a series of slots 11 and the lateral portion of which has a series of holes 12, which merge into elongations 13 crosswise the said lateral portion, and the hanger-plate has a vertical portion 14, provided with a projection 15, which has a recess 16 and a hooked portion 17.

In connecting the conveyer to a washing-machine, tub, or boiler the hanger-plate is hooked to any of said objects with the vertical portion 14 depending upon the outside. The angle-plate 10 is placed in position so that the head of the pin 6 and its lip 7 will pass through one of the holes 12 and elongations 13. From this position the angle-plate is turned on said pin so that the vertical portion of said plate depends from the upper end of the conveyer. Then the said plate is connected to the hanger by the projection 15 being passed through one of the slots 11 with the top edge of the slot resting in the recess 16, thus interlocking the same.

The conveyer may be adjusted vertically as desired by simply raising or lowering the conveyer to have other slots engage the projection 15 without disconnecting the angle-plate from the conveyer.

The conveyer may be adjusted laterally to and from the tub or machine by disconnecting the angle-plate from the hanger and operating the angle-plate, as hereinbefore described, to have the pin 6 engage other holes.

The frame members 4 engage the side of the tub or other vessel and form a rigid brace between the frame and such vessel.

The angle of the conveyer relative to the vessel gives the rollers sufficient inclination to carry off the clothes simply by the weight of the latter.

It is obvious that the conveyer may be adjusted vertically and laterally to suit various kinds of vessels, or to fix it in the best position relative to a wringer on such vessels.

We do not wish to be understood as limiting ourselves to any particular size, material, or number of rollers in the construction of the conveyer, nor to the size or material of the adjustable connection, but reserve to ourselves the right to vary the same as may be

found desirable in the practical application of the device.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination of the conveyer-frame adapted to be suspended from a wash vessel and comprising the side pieces and the cross-bars joining the side pieces together, the rollers journaled in and between the side pieces, and the members depending from the upper ends of the side pieces and engaging the outside of the vessel below the top thereof, as set forth.

2. The combination, with a conveyer having a headed pin provided with a lip, of the plate having elongated holes in one part to engage the pin, and slots in the other part, and

a hanger having a projection to engage the said slots, as set forth.

3. The combination, with the frame having a pin or projection from the under side thereof, of means for adjusting the frame laterally and vertically comprising the angle-plate, the lateral portion of which has elongations engaged by the said pin, and the vertical portion of which has slots, and the hooked hanger having a projection to engage the said slots, as set forth.

In witness whereof we hereunto set our hands in the presence of two witnesses.

ELBRIGE HASKINS.
JAMES HASKINS.

Witnesses:

C. M. JOHNSTON,
E. J. BESTICK.