

April 1, 1952

A. EILERSGAARD
CLOTHES-WASHING MACHINE

2,591,143

Filed Oct. 22, 1945

2 SHEETS--SHEET 1

Fig. 1.

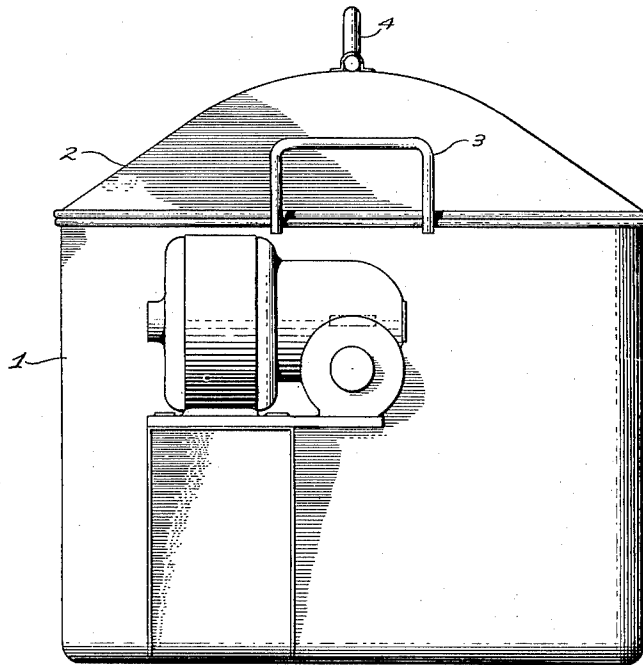
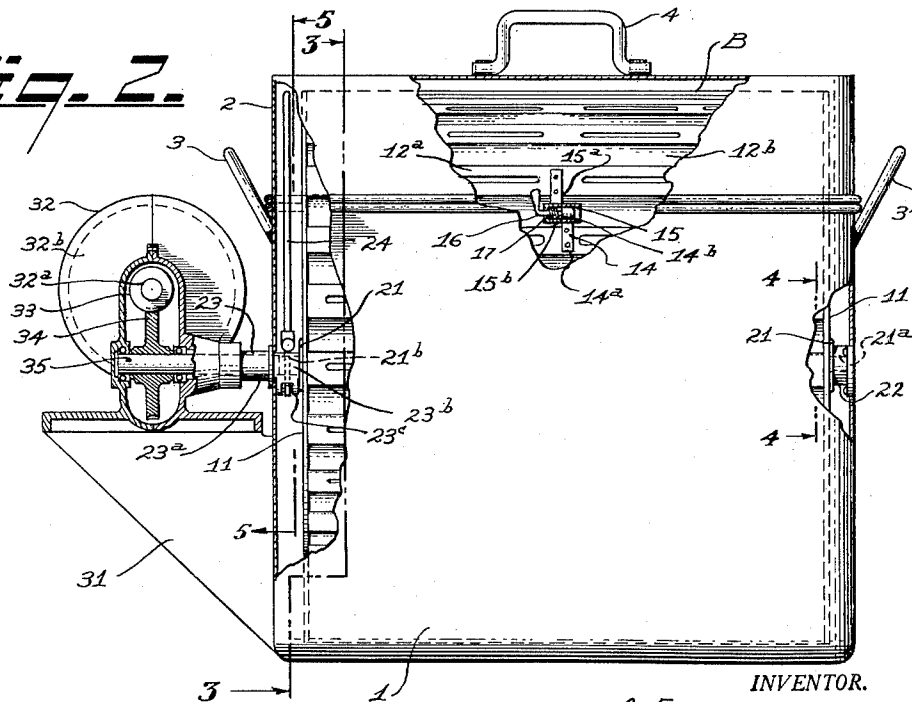


Fig. 2.



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2 SHEETS—SHEET 2

Fig. 3.

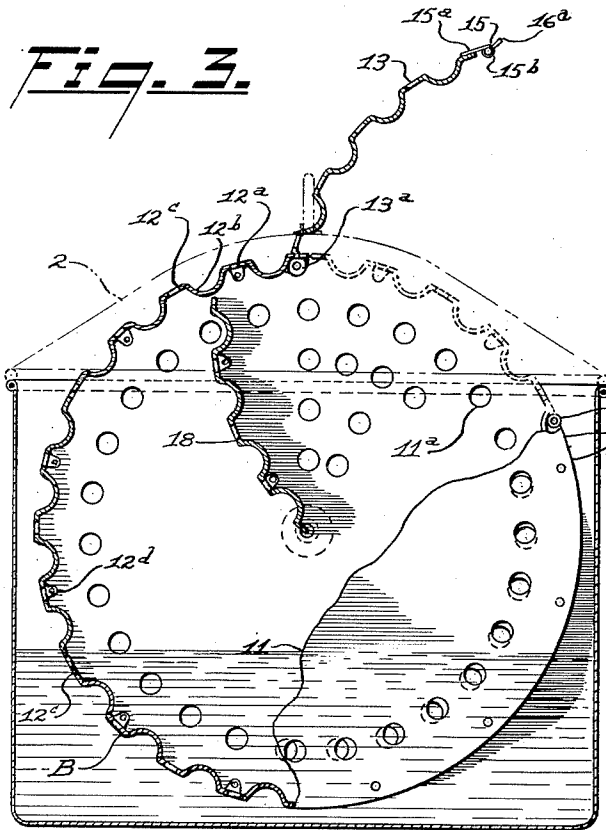


Fig. 4.

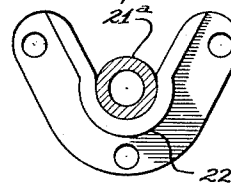


Fig. 5.

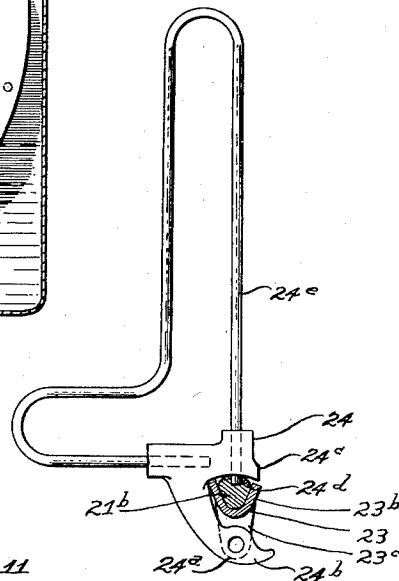
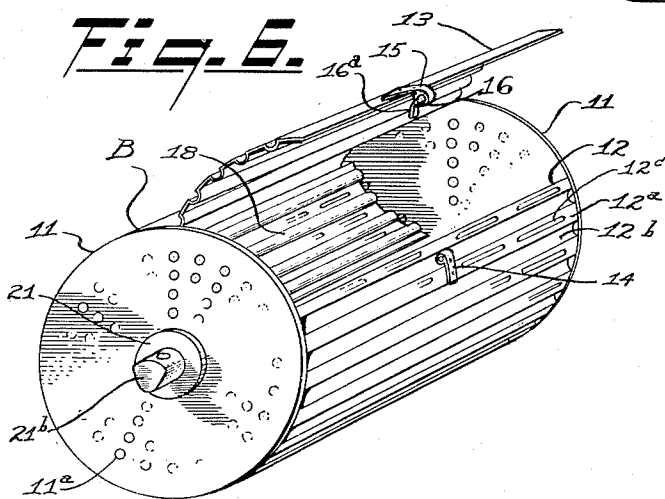


Fig. 6.



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CLOTHES-WASHING MACHINE

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Application October 22, 1945, Serial No. 623,648

1 Claim. (Cl. 68—140)

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My invention relates to clothes or similar washing machines, and particularly to a portable or small washing machine. Specifically, the invention pertains to a washing machine of that type which may be readily moved from one place to another, conveniently placed and operated in a sink or on a sink drain board and readily concealed or stored out of the way, the machine having a removable basket of known type into which the clothes to be washed may be placed, the basket being removably positioned in the receptacle containing the washing fluid.

An important object and novel feature of this invention is the provision of a simple means for temporarily locking the basket in rotatable position within the receptacle.

A further object of the invention is to provide a locking means for the removable basket of a washing machine which is relatively simple in construction and operation, and economical to manufacture.

With these and other objects in view, as will appear hereinafter, I have devised a locking means for the basket of a washing machine having certain novel features of construction, combination, and arrangement of parts and portions, as will be hereinafter described in detail and particularly set forth in the appended claim, reference being had to the accompanying drawings and to the characters of reference thereon, which form a part of this application, in which:

Fig. 1 is an elevational view from the drive side or end of my washing machine, in a preferred form;

Fig. 2 is a side elevational view thereof, showing portions broken away and in section to facilitate the illustration;

Fig. 3 is a sectional elevational view thereof, taken through 3—3 of Fig. 2, but showing the cover of the main receptacle removed, and also showing the cover or door of the washing basket in an open position;

Figs. 4 and 5 are fragmentary sectional views thereof, taken respectively through 4—4 and 5—5 of Fig. 2, showing the bearings or supports upon which the opposite ends of the washing basket are supported; and,

Fig. 6 is a perspective view of the washing basket with the cover or door in an open position.

The receptacle 1, which contains the washing or wash basket and the washing fluid, is substantially square, and has a dome-like cover 2. I have found that the receptacle in a washing apparatus of this class may conveniently be about

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16" square and 12" high. With the cover 2, the whole container portion of the washing machine may be approximately 16" high.

The receptacle 1 may have handle grips 3 at its opposite sides or ends, for handling or transporting the washing machine or apparatus. The cover 2 may also have a handle 4 for removing or otherwise handling the same.

Within the receptacle 1 is the actual washing container which consists of a wash or clothes basket B. It is cylindrical and is rotatably mounted on its axis, which is located horizontally, within the receptacle 1. It is so constructed that clothes may be readily placed within the basket, the basket placed within the receptacle 1, and rotated therein for washing the clothes within the basket. The latter may then be removed from the receptacle 1 and the clothes removed from the basket.

It is, of course, obvious from this construction that the clothes may be placed within or removed from the basket while the latter is located within the receptacle 1.

The basket B has circular heads 11 at its opposite ends, which are perforated, as indicated by 11^a. The cylindrical side wall of the basket is longitudinally ribbed and perforated. The permanent wall consists substantially of five large arcuate panels 12, each of which has alternately positioned longitudinal substantially flat strips 12^a and inwardly directed ribs 12^b, which ribs are of semi-circular cross-section. The strips 12^a are provided with longitudinal perforations 12^c. At the ends of the panels are provided inwardly bent ears 12^d, whereby the ends of the panels are riveted or otherwise secured to the heads 11 near the peripheral portions of the latter. These five panels form five-sixths of the cylindrical wall of the basket B.

The remaining cylindrical wall of the basket is formed or completed by another panel 13, which forms a cover, door, or gate for the basket, and is substantially identical with the panels 12.

The panel 13, however, is provided with other ears 13^a for pivoting the ends of one straight edge portion thereof to the heads 11, so that the panel 13 may be hinged, and thus form a door or cover for placing clothes into the basket or removing the clothes therefrom.

The opposite free edge of the door or cover 13 may be temporarily closed over the open portion of the basket by means of a latch, which consists of a pair of duplicate latch members 14 and 15. The tongues 14^a and 15^a thereof are secured, respectively, to the free edge portion

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of the panel 12 adjacent the door or cover, and to the edge portion of the door or cover itself. The latch members 14 and 15 have at their adjacent ends cylindrical portions 14^b and 15^b, which, when the door is closed, are located in alignment with each other. In the cylindrical portion 15^b of the latch member mounted on the door, is slidably mounted a bolt 16, which normally protrudes through the cylindrical portion thereof and is adapted to enter the cylindrical portion 14^b of the other latch member 14. The bolt is held in a locking position by the spring 17. The bolt is removed from the locking engagement by a handle 16^a positioned at the end opposite the locking portion of the bolt. The latch members are so constructed that the cylindrical portions 14^b and 15^b thereof are seated within the troughs of the inwardly bent ribs of the panel positioned adjacent the free edge of the door.

Within the basket B is located a baffle 18, which is arcuate at its forward side, that is, arcuate at the side of the direction of rotation of the basket. The baffle 18 is substantially a duplicate of the panels 12, and is similarly secured to the heads 11 by riveting ears 12^d thereto.

The axial portions of the heads 11 are provided with trunnions 21 for supporting the axial portions thereof, the one trunnion being designated 21^a and the other 21^b. The adjacent walls of the receptacle 1 are provided with sockets 22 and 23, which are open at one side, so that the trunnions of the wash basket may be readily placed therein. The socket 22 is fixed to the wall of the receptacle 1, and the retaining portions thereof for the trunnions are upwardly divergent, as shown in Fig. 4. The socket 23 has a tubular shank 23^a, which is rotatably mounted in the opposite wall of the receptacle. The portion of the socket 23, which extends into the interior of the receptacle, has a socket portion 23^b open at one side into which the trunnion, designated 21^b, is adapted to be seated.

The latter trunnion is removably secured within the socket portion 23^b by means of a latch member 24. This latch 24 has a bifurcated member 24^a, which embraces the trunnion 21^b and the socket portion 23^b. It has one furcation 24^b pivotally connected between a pair of ears 23^c extending from the portion 23^b and diametrically opposite the trunnion-receiving opening therein. The other furcation 24^c is adapted to extend over the trunnion 21^b. Through the furcation 24^c extends a resilient pin 24^d which is held therein by a resilient wire arm 24^e, one end of which is secured to the back of the member 24^a. Thus, the trunnion 21^b is temporarily held in position in the socket 23 and is rotated therewith while the latch 24 is in latching position.

At the outer side of one end wall of the receptacle 1 is provided a bracket 31 which supports an electric motor 32. The shaft 32^a of this motor has a worm 33 which meshes with and rotates a worm gear 34 having a shaft or hub

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35. The end of the hub 35 extending from the gear 34 is secured within the tubular shank 23^a of the socket 23, for rotating the latter and the wash basket B connected therewith.

As shown, the housing 32^b of the motor is made in two halves, which form the motor housing as well as the gear housing, and means for supporting the motor on the bracket 31.

Though I have shown and described a particular construction, combination, and arrangement of parts and portions of my washing machine, I do not wish to be limited to the same, but desire to include in the scope of my invention the construction, combination, and arrangement substantially as set forth in the appended claim.

I claim:

In a washing machine having a receptacle for containing washing fluid and a cylindrical clothes basket disposed within the receptacle and having trunnions at its ends, one of said trunnions having a radially extending detent recess in a side thereof, means for mounting said basket for rotation in said receptacle, comprising: a first socket member on a wall of the receptacle for receiving one of the trunnions of said basket; a second socket member rotatable on the opposite wall of the receptacle and adapted to receive the recessed trunnion of said basket; a latching member carried by and pivoted on said second socket member and adapted, when pivoted in one direction, to overlie said recessed trunnion to retain the same in said second socket, said latching member having a resilient arm; and a pin formed integrally with said arm and normally urged toward said recessed trunnion in a direction radially thereof due to the inherent resiliency of said arm, said pin being engageable in said detent recess for keying said recessed trunnion to said second socket member for rotation therewith.

ASGER EILERSGAARD.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
90,416	Woolsey	May 25, 1869
104,550	Brooks	June 21, 1870
106,492	La Rose	Aug. 16, 1870
127,709	Riggs	June 11, 1872
306,356	Small	Oct. 7, 1884
688,381	Blanchard	Dec. 10, 1901
889,233	Horne	June 2, 1908
1,296,823	Lehmann	Mar. 11, 1919
1,367,286	Strykul	Feb. 1, 1921
1,524,123	Fisher	Jan. 27, 1925
1,569,709	Burrage	Jan. 12, 1926
1,728,667	Curtis	Sept. 17, 1929
1,740,716	Traube	Dec. 24, 1929
2,330,420	Haberstump	Sept. 28, 1943