

Aug. 10, 1926.

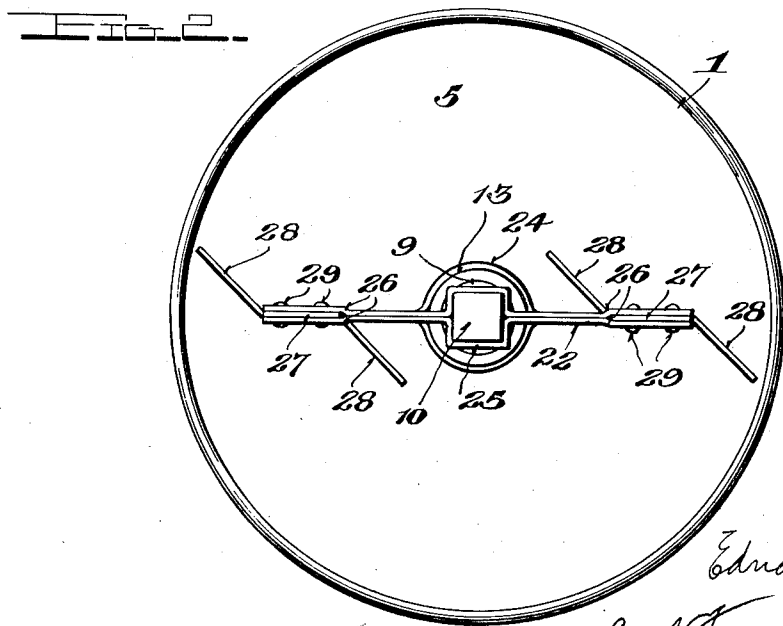
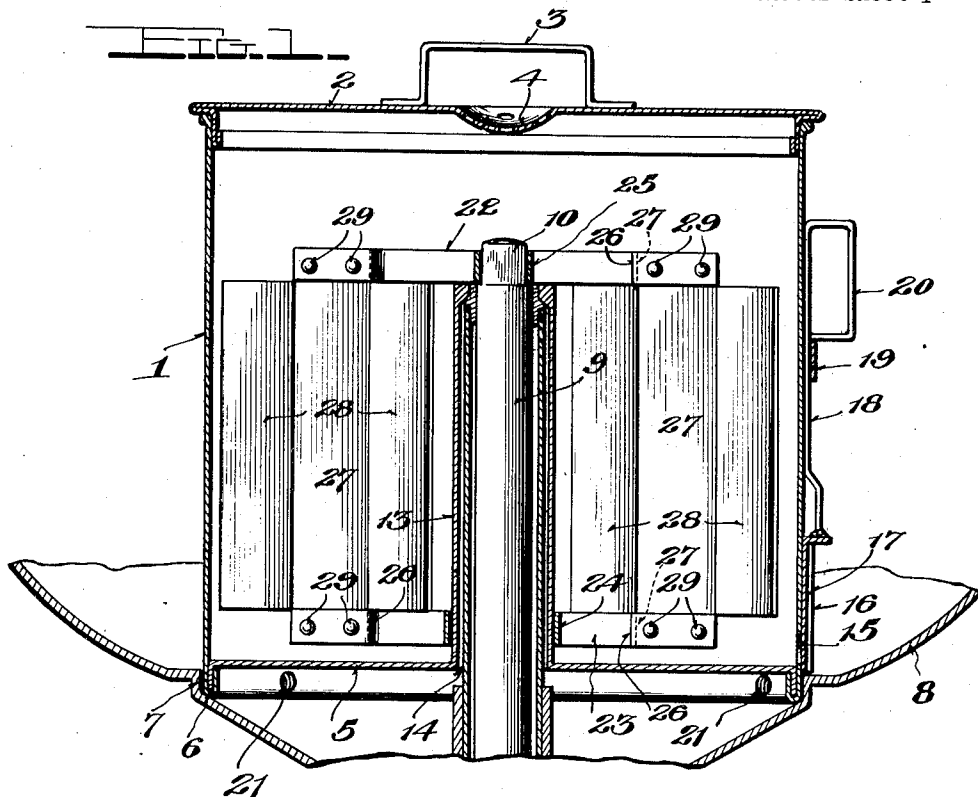
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1,595,814

CHURN

Filed Nov. 7, 1925

3 Sheets-Sheet 1



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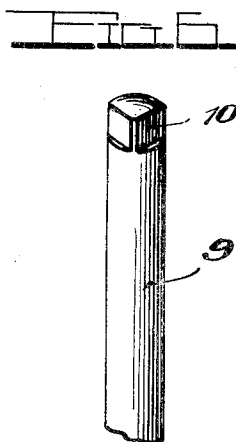
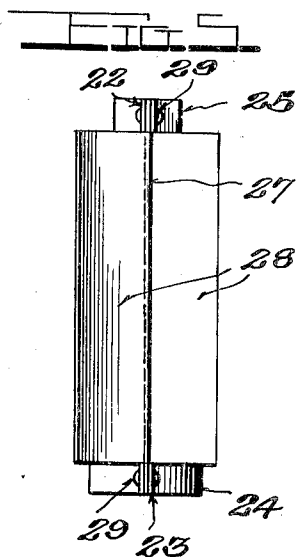
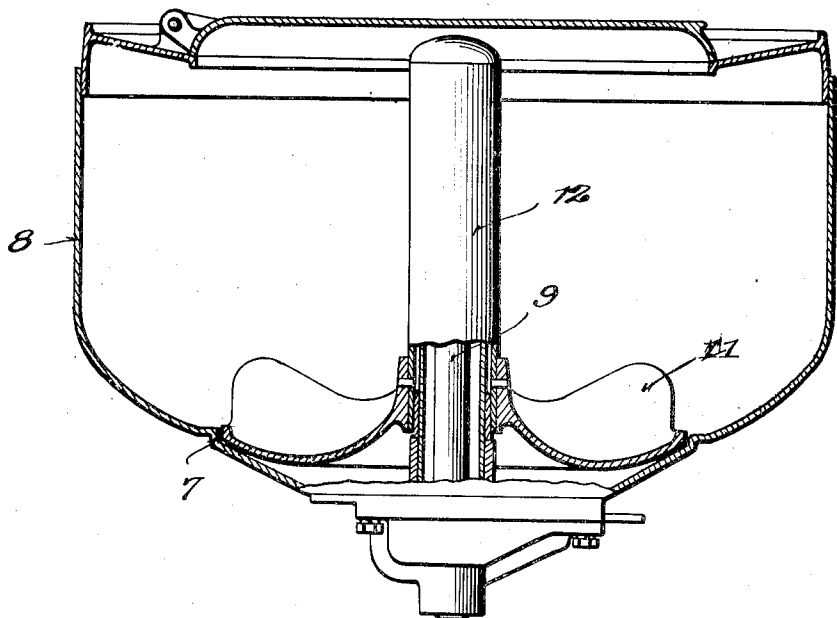
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Fig. 4



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UNITED STATES PATENT OFFICE.

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CHURN.

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This invention relates to certain new and useful improvements in churns and the primary object thereof is to provide a churn which can be readily substituted for the agitator mechanism of a washing machine so as to effect operation of the churn by the driving means of the agitator of the washing machine.

A further object of the invention is to provide a simple and economical type of churn which can be applied by mere removal of the washing machine agitator and sliding of the churn into operative position in the washing machine.

The invention still further aims to provide an improved and simplified form of agitator for the churn, and has still other and further objects which will be later set forth and manifested in the course of the following description.

In the drawings:—

Fig. 1, is a vertical sectional view of the invention showing same operatively applied to a washing machine, the latter shown in fragment;

Fig. 2, is a top plan view of the invention with the cover removed;

Fig. 3, is a perspective view of the invention showing the various parts separated and in the order of their assemblage;

Fig. 4 is a vertical sectional view, partly in side elevation of the parts of a type of washing machine for which the present invention is particularly for use, and

Fig. 5, is an end elevation of the dasher, and

Fig. 6 is a detail perspective view of the washing machine drive shaft.

In proceeding in accordance with the present invention, a churn body 1 is provided, having a cover 2 provided with a handle 3, the cover having a central depressed and perforated part 4 to allow air to enter the churn body.

The bottom of the body 5 of the body has a depending seamed connection 6 which is formed to engage in the annular seat 7 which is common to a certain type of washing machine receptacle 8 and with which type the present invention is designed for use.

The type of washing machine just referred to has a drive shaft 9 provided with a square head or upper end 10. The gyrotator 11 has a sleeve 12 which fits over the drive shaft 9 and which is driven thereby. The churn body is provided with a central

sleeve 13 on its interior which sleeve is secured to the bottom of the churn and registers with an opening 14 formed in the bottom.

The churn body is further formed with an outlet 15 in its side and adjacent to its bottom, the outlet being flanked by guides 16 in which a slide valve or cut-off 17 is mounted. The slide valve has an operating rod 18 connected thereto, the latter extending through a guide 19 carried by the body 1 and being equipped with a handle 20 at its upper end. The depending seam 6 is formed with a plurality of drain openings 21 whereby butter milk egressing from the churn and entering the cylinder or tub 8 of the washing machine, may pass below the churn through opening 21.

The dasher or agitator of the churn is composed of a head member 22 and a foot member 23 each of identical construction excepting as now noted. These members are each formed of a pair of strips of metal the central portions of which are bent or shaped to form sockets of which that of the foot member indicated at 24 is of circular shape while that of the head member indicated at 25, is of square shape. The ends of the strips of the respective pairs are offset as indicated at 26 and receive the ends of the central portions 27 of the dashers therebetween. The end parts of the dashers are inclined in opposite directions and form wings 28. The ends of the strips of the head and foot members are riveted at 29 to the central parts 27.

In operation, it will be noted that in applying the present invention to the type of washing machine illustrated in the drawings, the gyrotator is removed, and the churn applied by placing the sleeve 13 of the churn body over the drive shaft 9 of the washing machine, and with the square socket 25 of the dasher engaged over and with the squared head 10 of shaft 9. The depending portion 6 of the churn body engages in the part 7 of the washing machine cylinder or tub and seats therein. Upon movement of the drive shaft 9 of the washing machine the churn dasher will be rotated.

The present invention thus enables a washing machine and more particularly its driving mechanism to be employed to actuate the churn dasher and also affords means whereby upon manipulation of the valve to permit drainage from the churn to enter the washing machine cylinder where it may be

subsequently removed as desired. The washing machine may thus be utilized, as desired for churning butter and its utility or range of use accordingly increased, since it functions in a dual capacity and without any modification, the present invention being bodily applied by and upon mere removal of the gyratator.

What is claimed is:—

- 10 1. A churn for use with machines having a receptacle formed with a shouldered part located above the bottom thereof, and having a vertically disposed sleeve adapted to receive a drive shaft, including a body
- 15 formed to be received in said receptacle and having its bottom provided with a depending flange to engage the shouldered part, a vertically disposed sleeve located centrally of said body and provided at its upper
- 20 end with an inwardly extending flange to engage the upper end of the sleeve carried by the receptacle, said body having an opening formed to permit drainage into the receptacle, and said flange having openings
- 25 therethrough to permit drainage from the body into the receptacle below the shouldered part and thence onto the receptacle bottom.
2. A churn for use with machines having a receptacle formed with a shoulder part
- 30 located above the bottom thereof and having a vertically disposed sleeve to receive a drive shaft, including a body formed to be received within said receptacle having its
- 35 bottom provided with a depending flange adapted to engage said shouldered part of the receptacle to be supported thereby and a vertically disposed sleeve on the bottom of the body provided at its upper end with an
- 40 inwardly extending flange to engage the upper end of the first mentioned sleeve, whereby the body is supported at its top and center.
3. A churn for use with machine having a receptacle formed with a shouldered part
- 45 located above the bottom thereof, including

a body formed to be received in said receptacle and having its bottom provided with a depending flange to engage the shouldered part, said body having an opening formed to permit drainage into the receptacle, and said flange having openings therethrough to permit drainage from the body into the receptacle below the shouldered part and thence onto the receptacle bottom.

4. In a churn, a body, a dasher composed of a head and a foot member each having a pair of opposed strips, said strips of each member having centrally bent complementary socket forming parts and offset ends, a drive shaft engageable in the sockets, and dasher members having central parts received between the offset ends of the strips of the respective members and secured thereto and having wings extending outwardly from the central parts.

5. In a churn, a body, a dasher composed of a head and a foot member each having a pair of opposed strips, said strips of each member having centrally bent complementary socket forming parts and offset ends, a drive shaft engageable in the sockets, and dasher members secured at their intermediate portions between the offset ends of the strips of the respective members, said dasher members having angularly disposed blades extending therefrom on opposite sides of their intermediate portions.

6. In a churn, a body, a dasher composed of a head and a foot member each having a pair of opposed strips, said strips having complementary socket forming parts, a drive shaft engageable in the sockets, and a dasher member having its central part received between and secured to the strips of the respective members and having its sides angularly disposed with relation to the strips.

In testimony whereof I affix my signature.

EDNA P. BECKER.