Dec. 20, 1927. 1,653,577

E. KRAFFT

DISHWASHER

Filed March 29. 1927 2 Sheets-Sheet 1

Fig. 1,

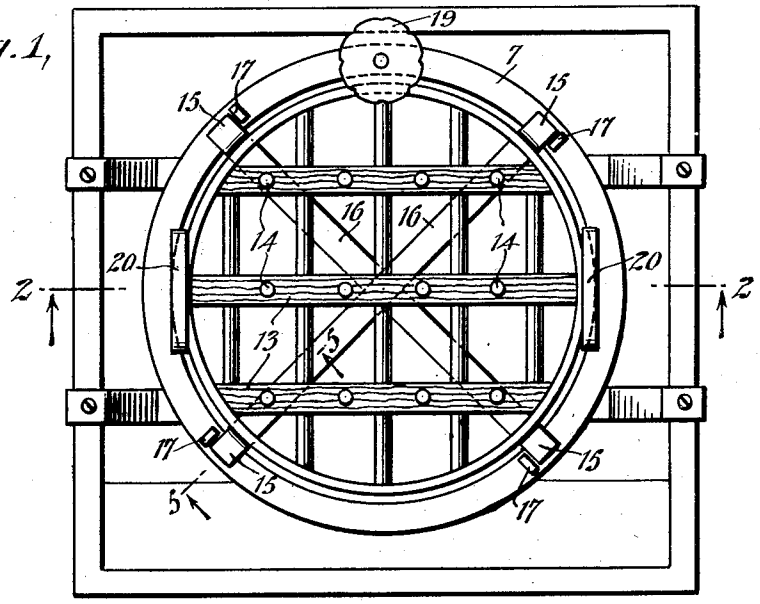
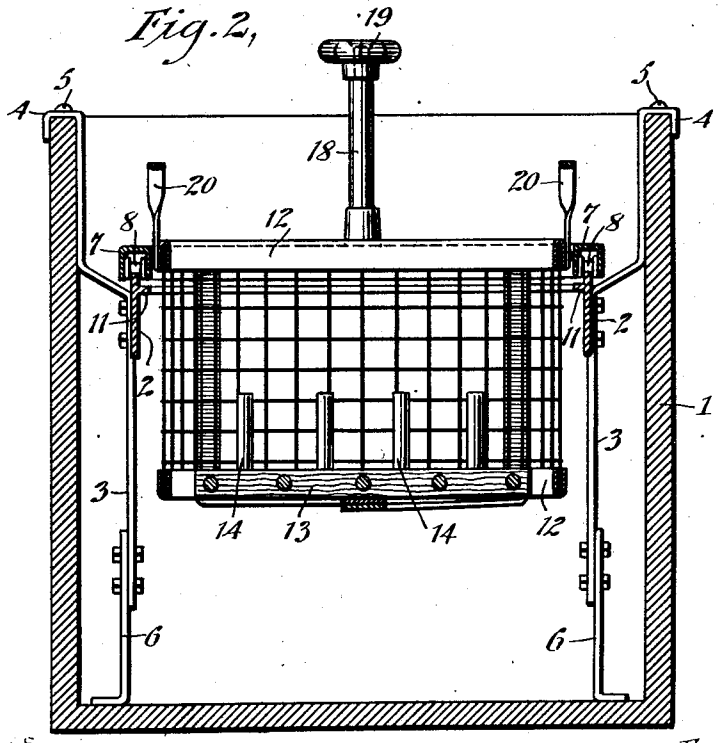


Fig. 2,



WITNESSES

Edw. Thorpe

L. W. Robter

INVENTOR

Emil Krafft

ATTORNEY

Dec. 20, 1927. 1,653,577

E. KRAFFT

DISHWASHER

Filed March 29. 1927 2 Sheets-Sheet 2

Fig. 3,

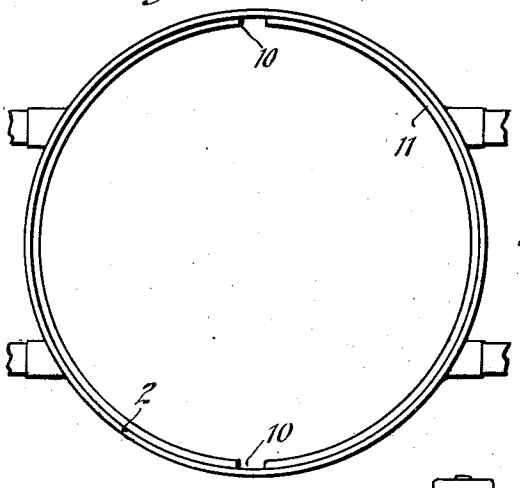


Fig. 4,

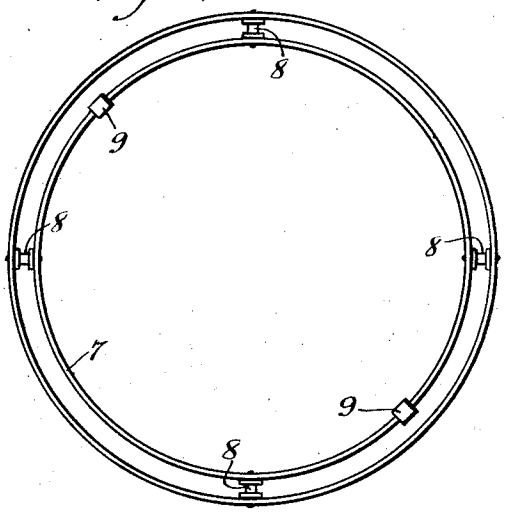


Fig. 5,

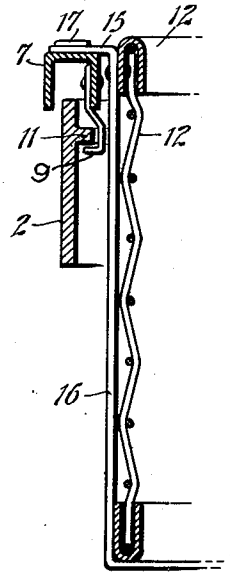
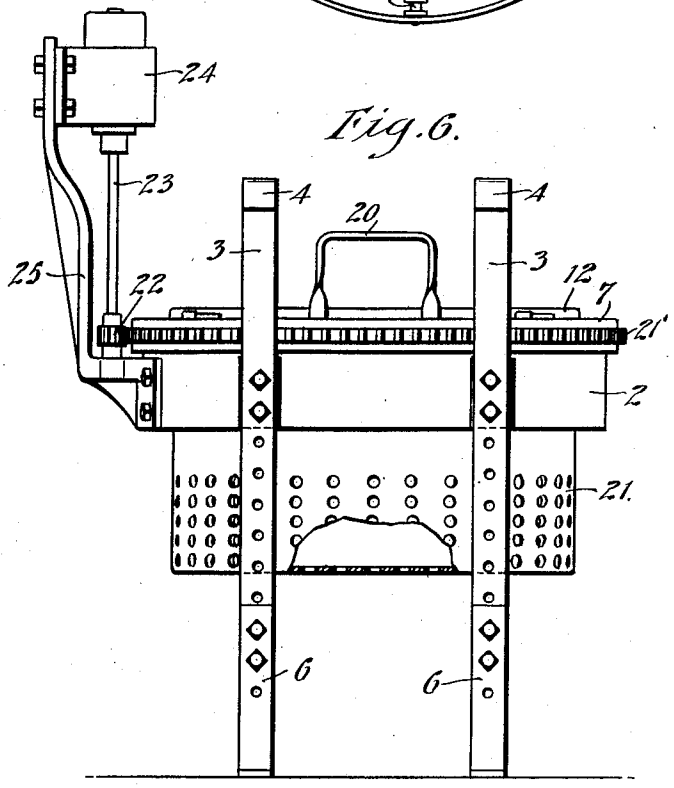


Fig. 6.



WITNESSES

Edw. Thorpe

A. W. Hooker

INVENTOR

Emil Krafft

BY Munn & Co.

ATTORNEY

Patented Dec. 20, 1927. 1,653,577

UNITED STATES PATENT OFFICE.

EMIL KRAFFT, OF NEW YORK, N. Y.

DISHWASHER.

Application filed March 29, 1927. Serial No. 179,330.

This invention relates to a dish washer which is of course adapted for washing silver and other articles as well as dishes.

An object of the invention is to provide a machine or apparatus of this character which can be readily installed at a minimum cost and which will most efficiently perform the functions for which it is intended.

The device has many advantages, some of which may be enumerated as follows:

The dishes or silver are supported in a basket or receptacle which is adapted to be revolved in either direction by either hand and thoroughly wash the dishes in water in which they are immersed or partially immersed.

My improved device will fit any ordinary sized tub.

It can be installed in a very short time without skilled labor.

It is portable and no special plumbing or other equipment is required for its proper operation.

With these and other objects in view, the invention consists in certain novel features of construction and combinations and arrangements of parts which will be more fully hereinafter described and pointed out in the claims.

In the accompanying drawings—

Figure 1 is a top plan view illustrating my improved device;

Figure 2 is a view in vertical section on the line 2—2 of Figure 1;

Figure 3 is a plan view of the track or rail constituting a part of my improved device;

Figure 4 is an inverted plan view of the ring mounted to run on the rail shown in Figure 3;

Figure 5 is an exaggerated view in section on the line 5—5 of Figure 1;

Figure 6 is a view in elevation illustrating a modification.

1 represents a tub or receptacle such as may be found as a part of household equipment or may be purchased on the market, and in such a tub or receptacle my improved device may be easily and quickly positioned and secured.

2 represents a circular track which is supported by vertically disposed bars 3 arranged around the track and in any desired number, four being shown. These bars 3 are rigidly secured intermediate their ends to the outside of the track 2 and their upper portions are offset laterally and bent into hook shape, as shown at 4, so as to be positioned over the edge of the tub and secured by screws or other securing means 5.

Supporting feet 6 are adjustably secured to the lower ends of the bars 3 so as to compensate for varying depths of tubs employed, and these feet rest upon the bottom of the tub and the hooks 4 over the upper edge of the tub so that the track 2 is rigidly held and supported.

On the track 2 a ring 7 is mounted to turn. This ring 7 is preferably of general channel shape in cross section and carries a plurality of grooved rollers 8 adapted to fit the track 2 and run thereon. Angular lugs 9 may be provided on the ring 7 which may move through recesses 10 in an internal annular flange 11 on the track when the ring is to be elevated from the track. Under ordinary conditions, however, the lugs usually lie under the flange 11 and prevent any disengagement of the ring from track.

12 represents a basket which is of circular form and which is of open mesh, either metal or any other suitable material, and has slats 13 in its bottom to support upright pegs 14 between which the dishes and other articles may be held in upright position or in any other position for the washing operation.

It is to be understood that this basket 13 is of a size to be positioned within the ring 7 and has radially projecting lugs 15 at its upper edge to rest upon the ring 7. These lugs 15 preferably constitute integral parts of metal straps 16 which are crossed under the bottom of the basket at the sides thereof and are bent laterally to form offsets so that these straps give reinforcement to the basket as a whole and the weight of the basket is supported at the bottom by reason thereof.

Fixed lugs 17 on the ring 7 are adapted to be engaged by the lugs 15 when turning the ring so that the basket and the ring are compelled to turn together in either direction. A post 18 is provided on the ring 7 and has a swiveled knob or handhold 19 at its upper end to be grasped by the operator to turn the ring and basket in either direction or oscillate the same, as may be desired, and it will of course be understood that this knob 19 may be grasped either by the right or left hand of the user and the ring 7 and basket 12 turned as desired.

The basket 12 is preferably provided at opposite sides with handles 20 to facilitate its movement from place to place and to allow it to be readily inserted within the ring 7 or removed therefrom.

In the modification illustrated in Figure 6 I show a basket or article support 21 which corresponds to the basket 12 excepting that it constitutes a perforated metal receptacle, the perforations being of such a size that they may prevent the passage therethrough of articles of silver and table ware supported therein for washing purposes. Hence when it is desired to wash silver or other smaller articles a receptacle such as shown in Figure 6 is employed instead of the basket 12 shown in Figures 1 and 2.

In this modification I also illustrate the device as power driven and with this idea in view I provide a rack 21′ around the ring 7 and this rack is engaged by pinion 22 on a shaft 23 driven by a motor 24. The motor 24 is supported on a bracket 25 rigidly secured to the ring or track 2.

It is of course to be understood that this construction shown in Figure 6 permits the parts to be motor driven instead of hand operated and I wish it to be distinctly understood that I desire to cover the apparatus either as hand operated or motor operated mechanism.

It is of course to be understood that the tub 1 is to be filled with water, containing soap or other cleansing fluid, to the proper level, and the basket 12 with its dishes therein or the receptacle 21 with the silver therein are located so that they are supported on the ring 7 and then the ring 7 is caused to roll on the track 2 either by hand or motive power, as above set forth, to thoroughly clean the dishes or other articles.

Various changes and alterations might be made in the general form of the parts described without departing from the invention and hence I do not limit myself to the precise details set forth but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claims.

I claim:

1. A device of the character described, including a circular track, means for securing said track within a tub, a ring, rollers on the ring mounted to rotate on the track, a removable openwork receptacle adapted to contain dishes, silverware and the like adapted to be located within the ring and track, lugs on the receptacle adapted to rest on the ring, and devices on the ring adapted to limit the movement of the lugs on the ring but permit the ring and the receptacle to be turned in either direction.

2. A device of the character described, including a circular track, means for securing said track within a tub, a ring, rollers on the ring mounted to rotate on the track, a removable openwork receptacle adapted to contain dishes, silverware and the like adapted to be located within the ring and track, lugs on the receptacle adapted to rest on the ring, and means for imparting motion to the ring.

3. A device of the character described including a circular track, means for securing said track within a tub, a ring, rollers on the ring mounted to rotate on the track, a removable openwork receptacle adapted to contain dishes, silverware and the like, adapted to be located within the ring and track, lugs on the receptacle adapted to rest on the ring, a post on the ring, and a swiveled knob on the post adapted to be gripped by either hand of the user to turn the ring and receptacle in either direction.

4. A device of the character described, including a track, bars fixed intermediate their ends to the track, hooks on the upper ends of said bars adapted to be positioned over the tub and secured thereto, adjustable feet on the lower ends of the bars adapted to rest on the bottom of the tub, a ring mounted to turn on the track and support a basket or other receptacle containing articles to be washed.

EMIL KRAFFT.