J. HOLEK.

DISH WASHING MACHINE.

APPLICATION FILED APR. 23, 1917.

1,325,246. Patented Dec. 16, 1919.

Fig. 1.

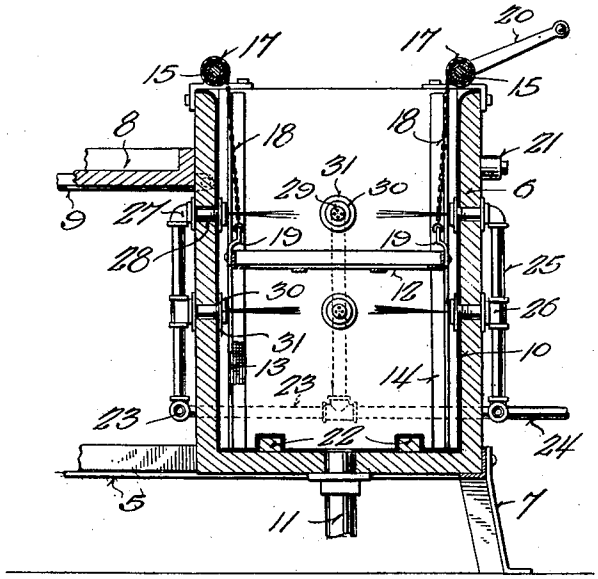
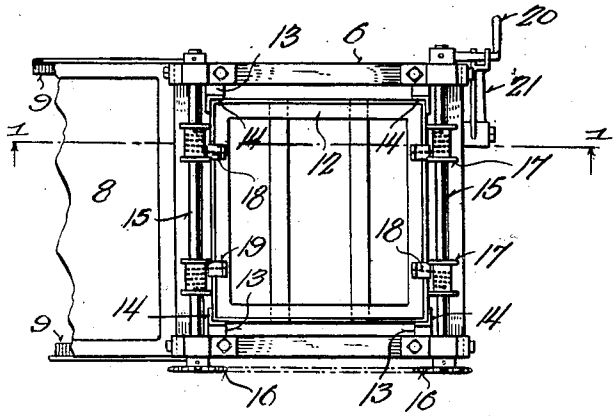


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

JOHN HOLEK, OF MILWAUKEE, WISCONSIN.

DISH-WASHING MACHINE.

1,325,246. Specification of Letters Patent. Patented Dec. 16, 1919.

Application filed April 23, 1917. Serial No. 163,807.

To all whom it may concern:

Be it known that I, JOHN HOLEK, a citizen of the United States, and resident of Milwaukee, in the county of Wilwaukee and State of Wisconsin, have invented certain new and useful Improvements in Dish-Washing Machines; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to new and useful improvements in machines for washing table utensils, and is more particularly directed to the provision of a machine adapted for washing cups and other articles which are not adapted to be efficiently cleansed by disk washing machines of the type shown in Patent No. 1,159,768, granted to me November 9th, 1915.

It is primarily the object of my invention to simplify and otherwise improve the structure, and to increase the efficiency and readiness of manipulation of machines of this character.

A more specific object resides in the provision of an arrangement for washing cups or other table articles of a shape inconvenient for individual manipulation, which comprises a means for applying jets of cleansing fluid to all portions of a batch of such articles whereby said batch of articles may be handled as a unit in a manner procuring an efficient cleansing thereof, in contradistinction to those types of machines involving an individual manipulation of the cups and similar articles.

With the above and other objects and advantages in view, the invention resides more particularly in the novel combination, formation and arrangement of parts hereinafter described and pointed out in the appended claim.

In the drawings:

Figure 1 is a vertical sectional view of a washing apparatus constructed in accordance with my invention, the plane of the section being indicated by the line 1—1 of Fig. 2.

Fig. 2 is a top plan view of the apparatus.

Referring now more particularly to the accompanying drawings, my improved apparatus for washing cups and like table utensils is preferably associated with an apparatus for washing plates, saucers and the like such as shown in my aforementioned patent, and in the drawings, 5 designates a projected end of the angle iron base frame of a machine for washing plates and the like on which is seated the body tank 6 of my improved apparatus, the frame 5 being supported at its outer end by depending legs 7. Disposed at that side of the tank 6 adjacent the plate washing machine is a drying table 8 adapted to receive dishes and other articles from the said machine. This table 8 being supported by bars 9 secured to the machine (not shown) and to the tank 6.

The tank 6 is provided with a suitable water tight lining 10 and is provided in its bottom with a drain 11. To slidably support a carrier 12 for vertical reciprocative movement within the tank, vertical bars 13 are secured to opposite sides of the tank and these bars carry angle iron rails 14 into which fit the corners of the carrier 12, which is preferably adapted to support a foraminous basket for holding a batch of cups or like articles to be cleansed. For reciprocating the carrier, a pair of parallel shafts 15 are journaled at the top of the tank and are provided with a sprocket connection 16 for procuring their simultaneous movement. Wound on drums 17 on the shafts are a plurality of chains 18 which are secured to upstanding ears 19 on the carrier. A crank handle 20 is secured to an end of one of the shafts, and thus both shafts may be rotated to raise or lower the carrier. For locking the carrier in any desired position, a link 21 is pivoted to the outer side of the tank and has its end bifurcated to interlockingly engage the crank handle 20, it being noted that the crank handle tends to swing upwardly at the outer side of the tank due to the weight of the carrier, and thus insures a proper inter-locking relation with the bifurcated end of the link 21. A plurality of seating ribs 22 are provided on the bottom of the tank for preventing engagement of the carrier with said bottom.

For supplying the sprays of cleansing fluid to the interior of the tank, a loop of pipe 23 is disposed about the lower portion of the tank and is supplied from a laterally extending pipe section 24. Upstanding from this loop at each side of the tank is a pipe line 25 interrupted intermediately by a T joint 26, and having at its upper end an elbow 27. From these T joints and elbows, pipe sections 28 extend through the walls of the tank, and are closed and apertured at their

inner ends to provide spray heads 29, these pipes being secured in the walls of the tanks by nuts 30 threaded on their inner ends and bearing against washers 31 between the nuts and tank. There is thus provided a vertically spaced pair of series of sprays each circumscribing the path of movement of the carrier 12.

Thus upon reciprocating the carrier to pass through these sprays, cleansing fluid is applied to all parts of the batch of table utensils carried thereby, whereby an efficient cleansing action is procured.

While I have shown and described a single upstanding pipe 25 at each side wall of the tank, and a pair of spray pipes carried by each of said single pipes, it will be understood that any desired multiplicity of spray pipes and upstanding pipes may be procured, each supplied from the common pipe loop circumscribing the bottom of the tank.

It will also be appreciated that various other changes and modifications of structure to meet differing conditions of use may be resorted to, without departing in any manner from the spirit of my invention, or exceeding the scope of the appended claim.

What is claimed is:

A washing machine comprising a vertically elongated tank, a rectangular carrier disposed in said tank and spaced from the walls thereof, vertically disposed angle bar guide rails secured in said tank, one being slidably engaged throughout its length with each corner of said rectangular carrier, means for reciprocating said carrier vertically within the tank, a plurality of series of spray jets carried by the walls of the tank intermediate of the limits of reciprocative movement of the carrier, each series of jets being disposed in a substantially common plane, and an open drain in the bottom of said tank, whereby to prevent the accumulation of liquid in the tank from said spray jets.

In testimony that I claim the foregoing I have hereunto set my hand at Milwaukee, in the county of Milwaukee and State of Wisconsin.

JOHN HOLEK.