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G. F. SIGLER & A. DOW.

DISH WASHING MACHINE.

APPLICATION FILED DEC. 22, 1904.

Fig. 2.

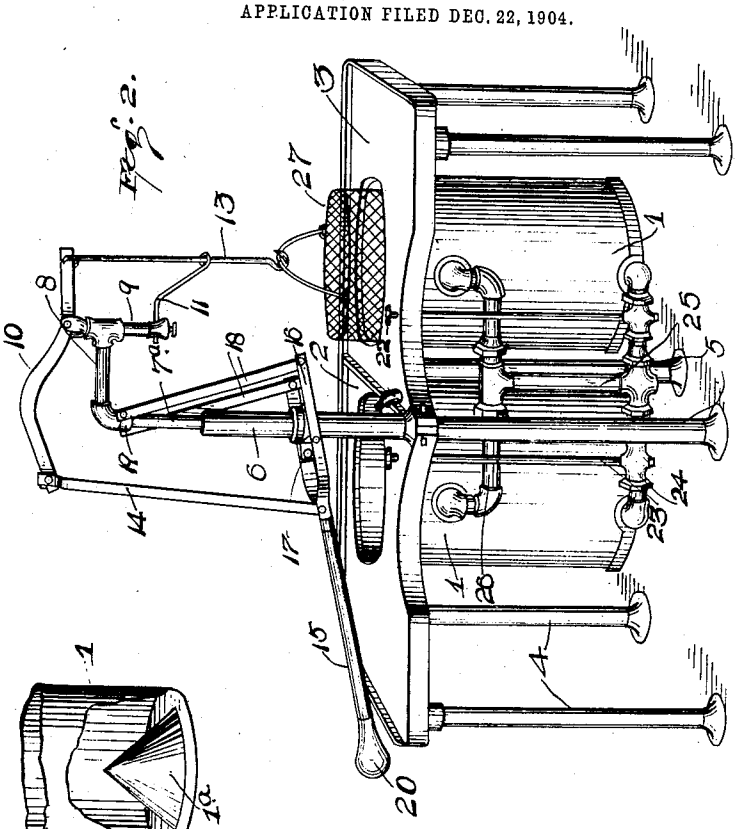
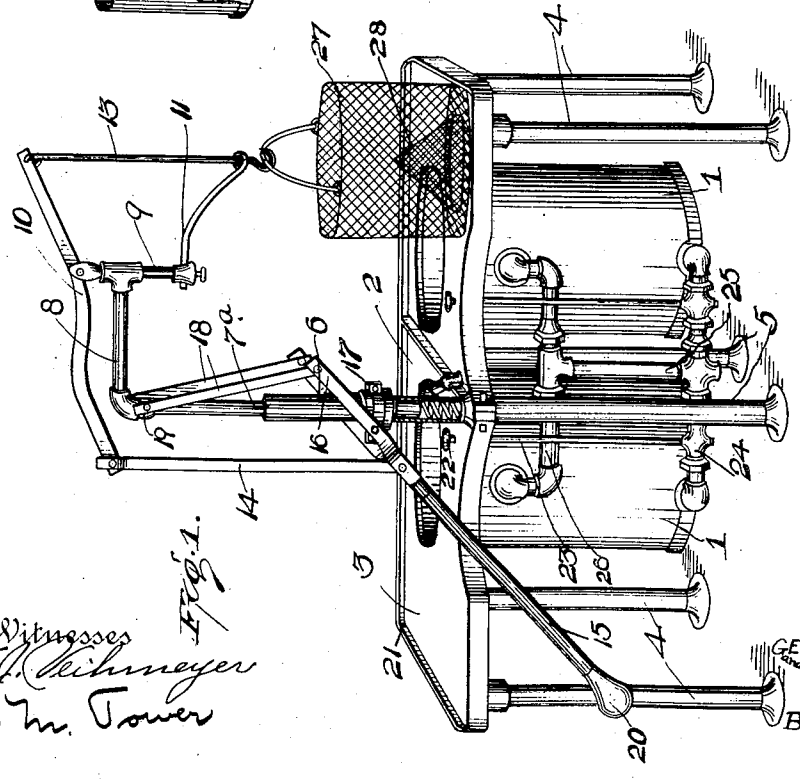



Fig. 3.




Fig. 1.




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# UNITED STATES PATENT OFFICE.

GEORGE F. SIGLER AND ALONZO DOW, OF WOOSTER, OHIO.

## DISH-WASHING MACHINE.

No. 814,329. Specification of Letters Patent. Patented March 6, 1906.

Application filed December 22, 1904. Serial No. 237,949.

*To all whom it may concern:*

Be it known that we, GEORGE F. SIGLER and ALONZO DOW, citizens of the United States, residing at Wooster, in the county of Wayne and State of Ohio, have invented certain new and useful Improvements in Dish-Washing Machines; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to improvements in dish-washing machines.

It has for its object to provide a machine of this nature of simple construction and convenient arrangement by which dishes may be washed and drained.

The invention consists in the details of construction and combinations of parts hereinafter described, and more particularly pointed out in the claims.

In the accompanying drawings, illustrating the preferred embodiment of our invention, Figure 1 is a perspective view of the machine with the wire bucket or dish-holder resting upon the draining-board. Fig. 2 is a similar view showing the wire bucket partly submerged in one of the reservoirs, and Fig. 3 is a broken central vertical sectional view of the bottom portion of one of the reservoirs or tanks.

While the preferred embodiment of our invention is fully shown in the accompanying drawings and its construction and operation are clearly described in this specification, we reserve the right to make such changes from the construction shown herein as the scope of the claims hereto appended will permit.

In carrying out our invention we provide a plurality of reservoirs, preferably connected with a water-supply and overflow pipe and having a common sight-glass which may be placed into communication with either or both of said reservoirs to indicate the level of the contents thereof. Said reservoirs are preferably set in a table having side extensions adapted to be used for draining purposes. The bucket or carrier for the dishes is preferably made of strong wire-netting and has a conical upward extension from its bottom to support the dishes edgewise in the receptacle. The bottoms of the reservoirs or tanks are also provided with a conical upward extension adapted to fit in below the conical raised portion of the bottom of the bucket or basket when it is lowered into one of said tanks. Said bucket is hung from a rod attached to the end of a pivoted lever connected to a hand-lever, which also has connection on the other side of its pivot with a rotary standard to which the pivoted lever is attached. The standard is mounted within a tube forming one of the supports and is adapted to rotate therein to bring the bucket over each reservoir. Said standard is also adapted to move up and down in the outer tube. The standard carries a guide-rod for the bucket-carrying rod and is seated upon a coiled spring in the tubular support.

Referring more particularly to the drawings, 1 1 are the reservoirs or tanks, having conical projections $1^a$ $1^a$ on their bottoms, set in the table 2, having lateral extensions 3 supported on uprights 4. The central portion of the table is supported upon other uprights 5, one of which extends above the surface of the table, as at 6, and is bored out to receive the standard $7^a$ and having its upper portion 8 bent horizontally. In the end of the portion 8 is mounted a pin or rod 9, carrying a pivoted lever 10 at its upper end and a rod or wire 11 at its lower end, said rod or wire preferably passing through a passage in said rod 9, in which it is secured by a set-screw, and having its outer extremity bent into the form of an eye to guide the hooked rod 13, secured to the end of the lever 10 and adapted to engage the dish-carrier. The other end of the lever 10 has connected thereto a rod 14, also connected to the hand-lever 15, which is forked, as at 16, and pivoted to a bracket 17, secured around the upward extension 6 of the forward central support for the table. Said forks extend past said extension 6 and are connected at their extremities to links 18, also connected to a collar 19 around the standard 7. The hand-lever is preferably weighted, as at 20, on its end to counterbalance the weight of the other lever, standard, &c.

It will be noted that when the hand-lever is depressed, as in Fig. 1, the outer end of the lever carrying the dish-receptacle is raised, and at the same time the standard itself is also raised, whereby the dish-receptacle may

be drawn out of a reservoir and deposited on the draining-board. The connection of the bracket 17 to the upright extension is such as to permit it to turn thereon, so that the hand-lever and the mechanism attached thereto may be turned from side to side, whereby two or more dish-carriers may be operated alternately, providing for the drying of the contents of one while that of another is being washed.

The table is preferably provided with a flange 21 around its rear and lateral edge and from front to rear between the reservoirs. Handles 22 on the ends of rods 23 project above the surface of said table. Said rods extend downward and are adapted to turn cocks in pipe connections 24, entering at the base of the reservoirs. Connected between said pipe connections 24 is a sight-glass 25, the upper end of which is connected to the upper portions of the reservoirs by other pipe connections 26. By means of the cut-offs or cocks operated from the table the sight-glass may be used in connection with either of the reservoirs separately or both of them together.

The dish-receptacle 27 is preferably made of coarse woven wire in the shape of a bucket with a conical upward projection 28 in the center of its bottom. Said conical projection supports the dishes on edge, so that the water can pass freely between them as the receptacle is worked up and down therein. The impulse given the water by the conical projection on the bottom of the tank entering below the conical projection on the bottom of the receptacle, forcing the water against the dishes, increases the cleansing qualities of the machine. The reservoirs may be suitably connected to a source of water-supply and to a drain, although these connections are not shown in the drawings.

When the hand-lever is allowed to drop, it will hang vertically, so that the links connecting the prongs of the lever and the standard are in a line with said lever. The standard is held or locked in its raised position, whereby the bucket or dish-receptacle is held suspended, and the table for holding said basket may be dispensed with if it is necessary to economize space or for any other reason it is not required. By this means the bucket or dish-carrier may be left suspended over a receptacle or tank to drain off the dishes.

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

1. In a dish-washing machine, the combination with a reservoir, of a table having an upwardly-extending post provided with a cavity in its end, of a standard mounted loosely in said cavity, a hand-lever pivoted to said post, a second lever pivoted to said standard and having means to support a dish-receptacle, said hand-lever connected on opposite sides of its pivot to said standard and the end of said second lever whereby the actuation of said hand-lever raises or lowers the standard and actuates the second lever to raise or lower said dish-receptacle.

2. In a dish-washing machine, the combination with a reservoir, of a table having an upwardly-extending post provided with a cavity in its end, a standard mounted loosely in said cavity, a hand-lever pivoted to said post, a second lever pivoted to said standard and having means to support a dish-receptacle, said hand-lever connected on opposite sides of its pivot to said standard and the end of said second lever whereby the actuation of said hand-lever raises or lowers the standard and actuates the second lever to raise or lower said dish-receptacle, said standard carrying means to guide the supporting means for the dish-receptacle.

3. In a dish-washing machine, the combination with a plurality of reservoirs, of a longitudinally-movable and rotary standard connected to said table and having means to support a dish-carrier, and a hand-lever attached to said standard whereby it may be operated to raise and lower a dish-carrier in either of said reservoirs.

4. In a dish-washing machine, the combination with a plurality of reservoirs, of a longitudinally-movable and rotary standard, a pivoted lever carried by said standard and having means to support a dish-receptacle, and a pivoted hand-lever having means of connection, on opposite sides of its pivot, with the first-mentioned lever and said standard, whereby the actuation of said hand-lever raises or lowers the standard to actuate the first-mentioned lever to raise or lower a dish-receptacle, in either of said reservoirs.

5. In a dish-washing machine, the combination with a plurality of reservoirs, of a longitudinally-movable and rotary standard connected to said table and having adjustable means to support a dish-carrier, and a hand-lever attached to said standard whereby it may be operated to raise and lower a dish-carrier in either of said reservoirs.

6. In a dish-washing machine, the combination with a reservoir having an upward projection on its bottom, of a dish-carrying receptacle having a similarly-shaped upward projection on its bottom adapted to fit over the projection on the bottom of said reservoir for the purpose specified.

7. In a dish-washing machine, the combination with a reservoir having a cone-shaped upward projection on its bottom, of a dish-carrying receptacle having a similarly-shaped upward projection on its bottom adapted to fit over the projection on the bottom of said reservoir for the purpose specified.

8. In a dish-washing machine, the combination with a reservoir having a central cone-shaped upward projection on its bottom, of a dish-carrying receptacle having a similarly-shaped central upward projection on its bottom adapted to fit over the projection on the bottom of said reservoir for the purpose specified.

In testimony whereof we affix our signatures in presence of two witnesses.

GEO. F. SIGLER.
ALONZO DOW.

Witnesses:
R. C. SWEENEY,
JOHN B. BROWN.