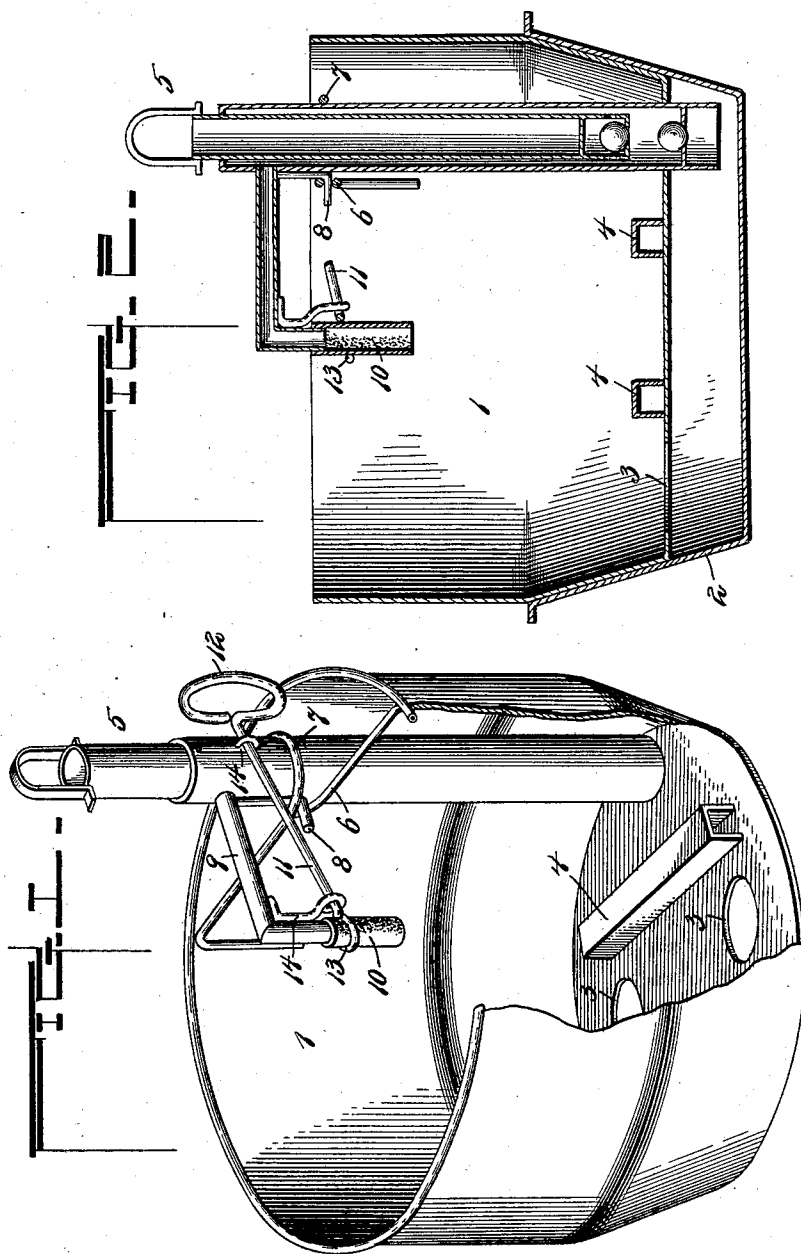


(No Model.)

R. M. DANIELS.
DISH CLEANER.

No. 588,219.

Patented Aug. 17, 1897.



Inventor

Witnesses

Milton O'Connell
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By his Attorneys,

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UNITED STATES PATENT OFFICE.

REUBEN M. DANIELS, OF APPLETON CITY, MISSOURI.

DISH-CLEANER.

SPECIFICATION forming part of Letters Patent No. 588,219, dated August 17, 1897.

Application filed April 2, 1897. Serial No. 630,420. (No model.)

To all whom it may concern:

Be it known that I, REUBEN M. DANIELS, a citizen of the United States, residing at Appleton City, in the county of St. Clair and State of Missouri, have invented a new and useful Dish-Washer, of which the following is a specification.

This invention has relation to that class of devices designed to wash dishes, vegetables, fruits, &c., mechanically, and aims to provide an appliance which can be used in connection with a dish-pan or like vessel and which is easily controlled, so as to throw a jet of water in any desired direction to reach every part of the receptacle without requiring the wetting of the hands.

For a full understanding of the merits and advantages of the invention reference is to be had to the accompanying drawings and the following description.

The improvement is susceptible of various changes in the form, proportion, and the minor details of construction without departing from the principle or sacrificing any of the advantages thereof, and to a full disclosure of the invention an adaptation thereof is shown in the accompanying drawings, in which—

Figure 1 is a perspective view of a dish-washer constructed in accordance with and embodying the essential features of this invention, a portion of the receptacle being broken away. Fig. 2 is a vertical central section thereof, showing it applied to a dish-pan or like vessel.

Corresponding and like parts are referred to in the following description and indicated in the several views of the drawings by the same reference-characters.

The receptacle 1 has its upper portion of cylindrical outline and its lower portion contracted and of conical form, so as to fit snugly within a dish-pan 2 or like vessel whose sides flare. The bottom of the receptacle has a series of openings 3 and is provided with cleats 4, the latter preventing the slipping of plates, platters, and kindred dishes when placed on edge in position to be washed. A pump 5, of ordinary construction, is located at one side of the receptacle and is of the combined suction and force type, so as to elevate a column

of water and force the same upon the dishes or articles in position within the receptacle to be cleansed. The lower portion of the pump passes through the bottom of the receptacle, so as to enter the water-space formed between the receptacle and the pan or vessel 2. A stout wire or light rod 6 is soldered or otherwise attached at its ends to the sides of the receptacle and has a coil 7 formed therein at an intermediate point to receive and brace the pump, and a pin 8, projecting laterally from the pump, passes between the upper and lower portions of the wire at their point of crossing, thereby securing the pump against vertical displacement, said pin being engaged and disengaged from the crossing parts of the wire by turning the pump, as will be readily understood. The spout 9, at the upper end of the pump, is provided with a flexible nozzle or delivery portion 10, which is adapted to be deflected to throw the jet of water in any desired direction.

A rod 11, having a handle 12 at its outer end and an eye 13 at its inner end, is slidably and rotatably mounted in guides 14, attached to a side of the pump and the outer end of the spout, and the nozzle 10 passes through the eye 13 and is moved to any desired position by a proper manipulation of the rod, thereby throwing the stream of water in the desired direction.

For washing dishes a weak suds-water is supplied to the dish-pan or vessel 2 and is heated to the required temperature, and the dishes being properly placed within the receptacle, preferably on edge, so as to admit of every portion being subjected to the force of the water, the pump is operated and the stream directed by means of the rod 11 in the manner set forth, so as to cause the suds-water to be delivered upon all of the dishes contained in the receptacle, thereby thoroughly and effectively cleansing them. After being washed the dishes are allowed to remain in the receptacle, so as to drain, and are then removed and dried by the evaporation of the water or, if desired, may be wiped in the usual way.

For washing fruit, vegetables, and other articles they are placed in the receptacle and

subjected to the stream of water in the manner set forth, only the said water is pure and may be heated or not, as required.

Having thus described the invention, what is claimed as new is—

1. In a dish-washer, the combination of a receptacle, a wire secured at its ends to the sides of the receptacle and having a coil intermediate of its ends, and a pump fitted within the said coil and having a laterally-extending pin or projection coming between the portions of the wire at their point of crossing, whereby the pump is held against vertical displacement, substantially as set forth.

2. In a dish-washer, the combination of a receptacle, a pump located in the receptacle and having guides at its side and applied to the spout, a flexible nozzle fitted to the spout, and a rod slidably and rotatably mounted in the guides and having an eye at its inner end to receive the flexible nozzle, and a handle at its outer end, substantially as shown for the purpose set forth.

3. A dish-washer comprising a receptacle

having its lower portion contracted to fit into a dish-pan or like vessel, and having its bottom formed with openings and provided with cleats, a pump having its lower portion projecting through an opening in the bottom of the receptacle, a wire secured at its ends to the sides of the receptacle and having a coil to receive and steady the pump, a pin or lateral projection at a side of the pump extending between the portions of the wire coil at their point of crossing to hold the pump against vertical displacement, a flexible nozzle fitted to the spout of the pump, and a rod rotatably and slidably mounted in guides provided on the pump and spout, and having engagement with the flexible nozzle, substantially as shown for the purpose specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

REUBEN M. DANIELS.

Witnesses:

H. MENDENHALL,
JOHN HILL.