

(No Model.)

2 Sheets—Sheet 1.

M. D. COLBATH.
DISH CLEANER.

No. 597,957.

Patented Jan. 25, 1898.

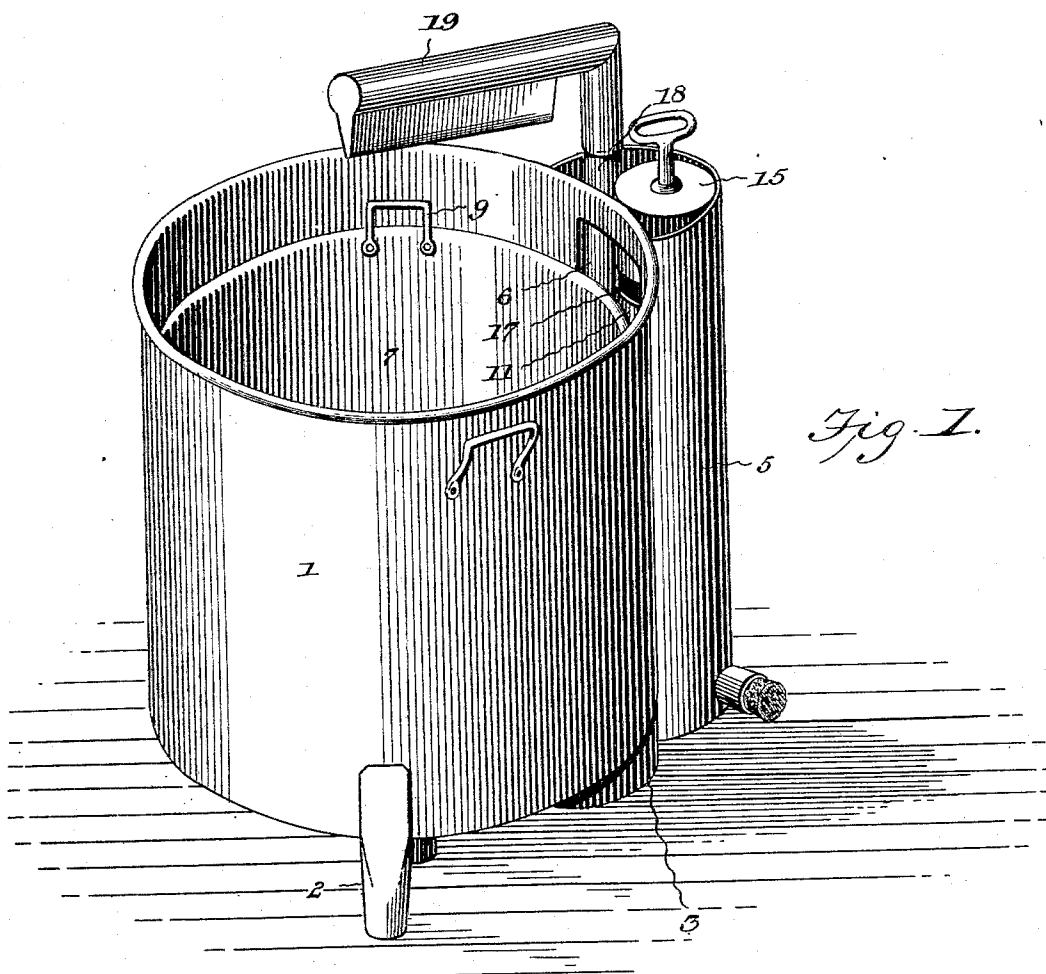


Fig. 1.

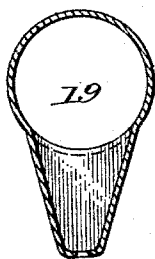


Fig. 4.

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Witnesses

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V. B. Hillyard.

By *hws* Attorneys,

CA Snow & Co.

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2 Sheets—Sheet 2.

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Fig. 2.

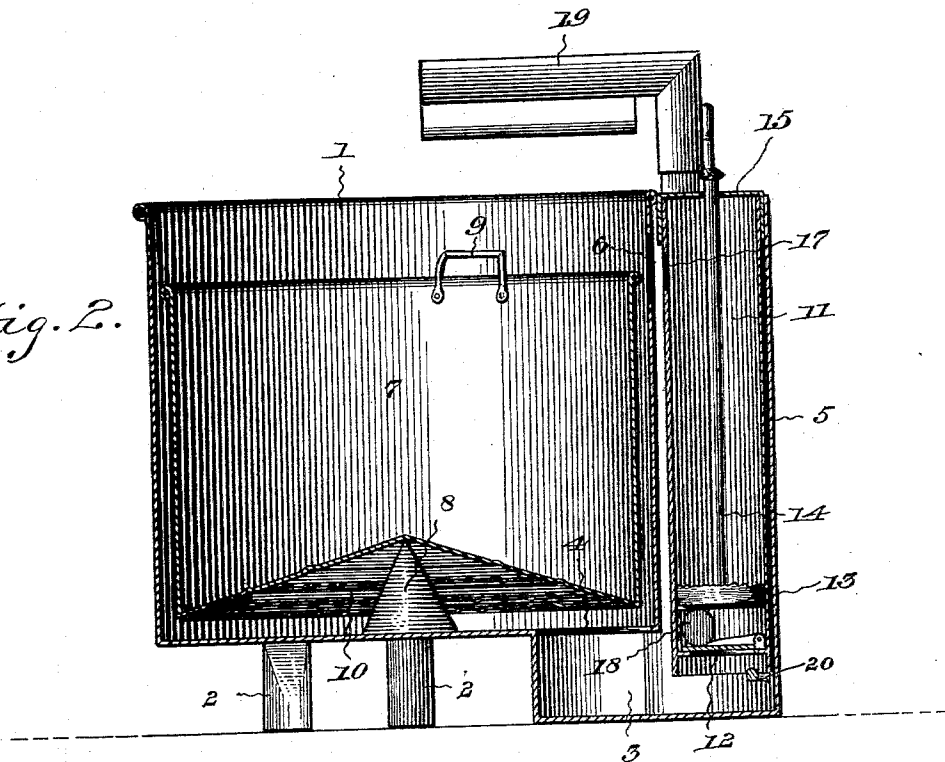
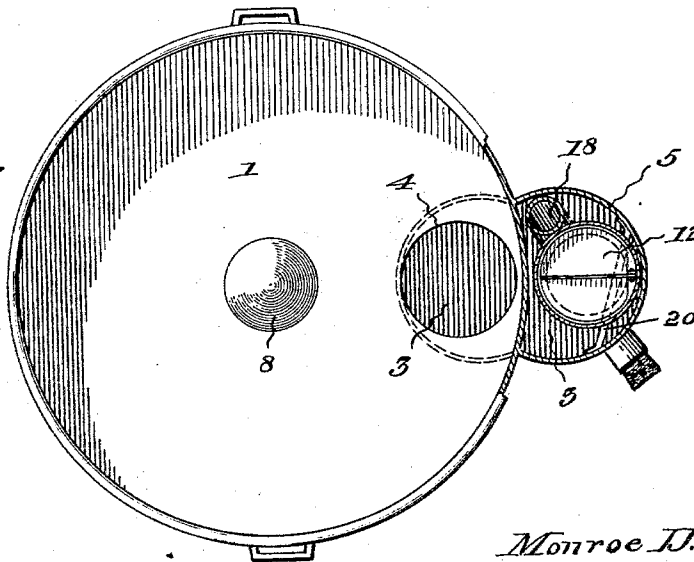


Fig. 3.



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UNITED STATES PATENT OFFICE.

MONROE D. COLBATH, OF EASTON, MAINE.

DISH-CLEANER.

SPECIFICATION forming part of Letters Patent No. 597,957, dated January 25, 1898.

Application filed September 18, 1897. Serial No. 652,161. (No model.)

To all whom it may concern:

Be it known that I, MONROE D. COLBATH, a citizen of the United States, residing at Easton, in the county of Aroostook and State of Maine, have invented a new and useful Dish-Washer, of which the following is a specification.

This invention relates to that class of machines designed for washing dishes and comprising a receptacle to receive the dishes to be cleansed and a pump for distributing sudswater over the dishes, whereby the washing is accomplished.

One of the chief advantages sought to be attained is to utilize a minimum amount of water and to distribute the same upon the dishes in a sheet or spray, the nozzle being movable to reach all the dishes or the receptacle being rotatable to bring the dishes contained therein within range of the spray ejected from the nozzle.

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 specially designed for effecting the objects of this invention. Fig. 2 is a vertical central section thereof. Fig. 3 is a top plan view, parts being broken away and the dish-receptacle omitted. Fig. 4 is a transverse section of the nozzle.

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

The boiler or vessel 1 for containing the suds or other water for cleansing the dishes or articles to be washed may be of any outline in plan elevation and, as shown, is preferably of circular form and is mounted upon feet 2, thereby providing for a well or pit 3 at one side below the bottom and which is in communication therewith through an opening 4. A vertical chamber 5 is located at one side of the boiler or vessel and is in commu-

nication at its lower end with the well or pit 3 and is formed by a strip of metal bent between its edges into approximately a semi-cylindrical shape and soldered or otherwise secured at its edges to the outer side of the boiler or vessel 1. An opening 6 near the upper end of the part 1 establishes communication between the chamber 5 and the boiler or vessel, as clearly indicated.

The dish-receptacle 7 fits loosely within the boiler or vessel 1, and its bottom is of conical shape and rests upon a conical projection 8, rising vertically from the bottom of the boiler 1 and upon which the receptacle 7 is turned to bring the dishes or articles placed therein within the range of the spray or jet of water. The dish-receptacle has handles 9, by means of which it is conveniently manipulated, and its bottom is perforated for the ready escape of the water which finds its way back into the lower portion of the boiler or vessel and thence into the well or pit to be used over and over until the desired end is effected. By having the bottom 10 of the dish-receptacle of conical form the water drains off quickly and the receptacle centers itself upon the conical projection 8, thereby admitting of the receptacle being turned easily for the purpose specified.

A pump is located in the vertical chamber 5 and comprises a barrel 11, having an inner seat at its lower end, with which operates a clack-valve 12, adapted to open upwardly, so as to permit the water to enter the pump-barrel and which closes to confine the said water upon the descent of the piston. The piston or plunger 13 is attached to the lower end of an operating-rod 14, which works loosely through a cap 15, closing the upper end of the barrel 11, and may be operated in any desired manner, and as shown it is provided at its upper end with a handle to be grasped by the attendant. An opening 17 is formed in the side of the barrel 11 near its upper end and comes opposite the opening 6 and provides for the escape of air upon the upstroke of the piston and for the discharge of any water which may find its way into the barrel above the said piston. A discharge-pipe 18 communicates at its lower end with the lower portion of the barrel 11, and a nozzle 19 is fitted to the upper end thereof and

comprises a vertical and a horizontal branch; the latter projecting over the boiler or vessel, so as to deliver the water in a sheet, spray, or jet upon the dishes or articles placed therein.

5 In order that the nozzle may be moved so as to bring the dishes or articles within range of the spray or jet in the event of it not being desired to move the receptacle 7, said nozzle is mounted upon the upper end of the discharge-pipe, so as to be turned from side to side, as will be readily understood. The horizontal branch of the nozzle has a slot or opening in its lower side, and lips or flanges extend from the sides of the said slot or opening and converge toward their lower edges, whereby the water is caused to be delivered in a sheet, as will be apparent.

The dishes or articles to be washed are placed in the receptacle 7, and water is supplied to the boiler or vessel 1 in sufficient quantity and soap or other cleansing compound may be added thereto to facilitate the washing process, and by operating the lever 16 the water will be injected upon the dishes 25 or articles, and the latter may be brought within the range of the jet either by turning the receptacle 7 or by moving the nozzle 19, substantially as set forth.

The pump is supported within the chamber 30 5 by resting upon a cross-rod 20.

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

1. In a dish-washer, the combination of a vessel mounted upon feet and having a well 35 or pit below its bottom, a vertical chamber at one side of the vessel in communication at its lower end with the well or pit and having

communication at its upper end with the said vessel, a pump removably fitted within the vertical chamber and having a side opening 40 near its upper end about opposite the opening establishing communication between the said vertical chamber and upper portion of the vessel, a discharge-pipe communicating at its lower end with the pump, and a nozzle 45 extending horizontally over the vessel and having connection with the upper end of the discharge-pipe, substantially as set forth.

2. A dish-washer constructed substantially as herein set forth, and comprising a vessel 50 having a conical projection rising centrally from its bottom, and having a well or pit below its bottom and at one side, and having a vertical chamber at one side in communication with the well or pit, a pump removably 55 fitted within the vertical chamber, and having an opening in its side opposite a corresponding opening by means of which communication is had between the upper portions of the chamber and vessel, a discharge-pipe 60 having connection with the lower portion of the pump and having a nozzle fitted to its upper end and adapted to be turned horizontally, and a dish-receptacle having its bottom perforated and of conical form and 65 mounted upon the aforesaid conical projection, substantially as described.

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

MONROE D. COLBATH.

Witnesses:

FREDK. J. BARNARD,
EDWARD B. GLASGOW.