

April 26, 1938.

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2,115,622

WASHING APPARATUS

Filed April 20, 1937

2 Sheets-Sheet 1

Fig. 1.

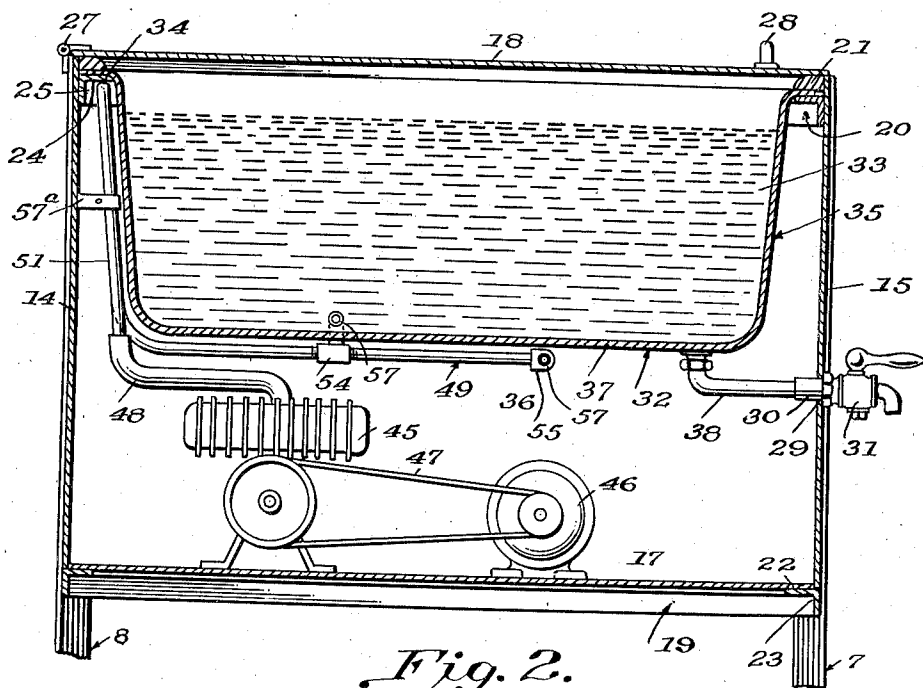
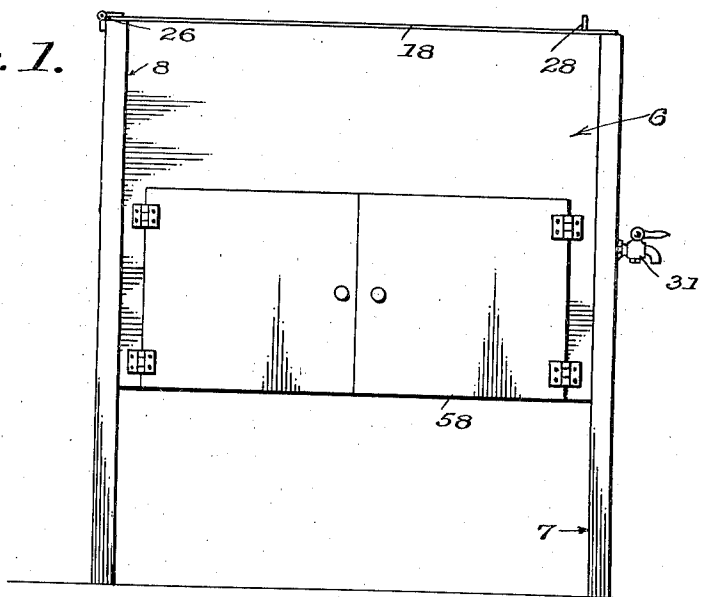


Fig. 2.

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2 Sheets-Sheet 2

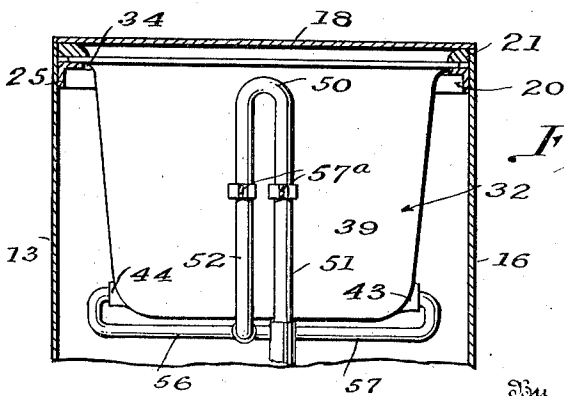
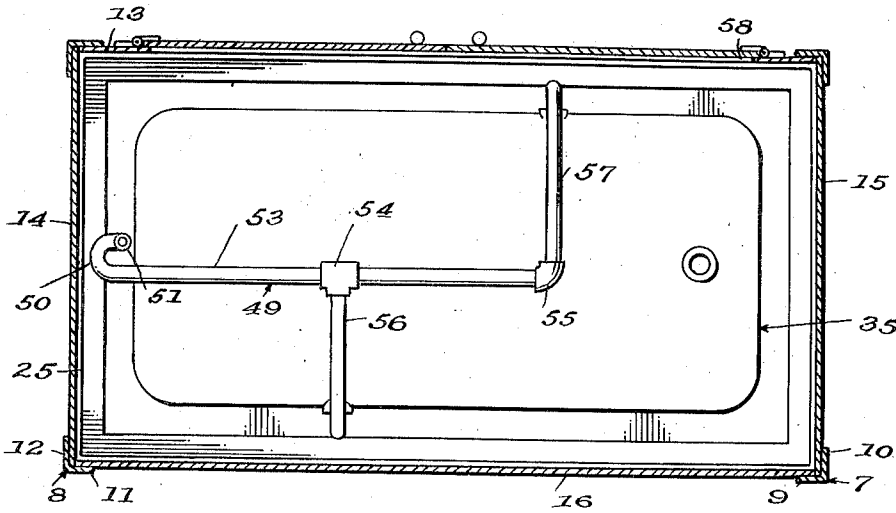
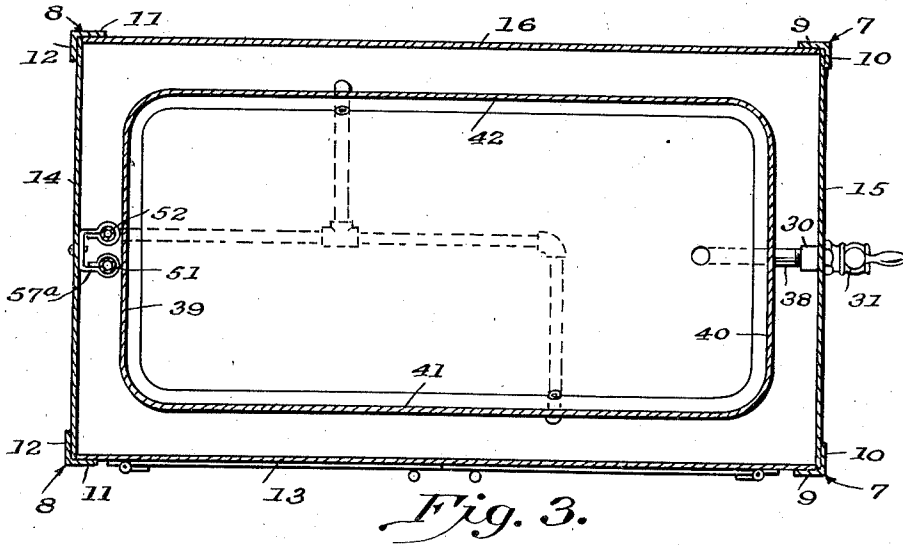


Fig. 5.

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UNITED STATES PATENT OFFICE

2,115,622

WASHING APPARATUS

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Application April 20, 1937, Serial No. 138,056

1 Claim. (Cl. 259—95)

This invention relates to a washing apparatus designed primarily for use as a dish washer, but it is to be understood that the apparatus is for use in any connection for which it may be found applicable.

The object of the invention is to provide, in a manner as hereinafter set forth, an apparatus of the class referred to wherein the washing operation is carried out by a cleansing medium agitated by compressed air.

A further object of the invention is to provide in a manner as hereinafter set forth, an apparatus of the class referred to so constructed and arranged to provide for the articles which are to be washed thereby cleaned solely by the action of a cleansing fluid under a state of agitation caused by compressed air circulating around the articles thereby overcoming the necessity of the use of the hands of an attendant during the washing operation.

A further object of the invention is to provide, in a manner as hereinafter set forth, an apparatus of the class referred to which is comparatively simple in its construction and arrangement, strong, durable, compact, of cabinet type, thoroughly efficient in its use, expeditious in its operation, conveniently controlled, readily assembled and comparatively inexpensive to set up.

In the drawings:

Figure 1 is a front elevation of the apparatus, Figure 2 is a longitudinal sectional view thereof, Figure 3 is a sectional plan, Figure 4 is an inverted sectional plan, and Figure 5 is a fragmentary view in section and in elevation looking towards one end of the tank or washing chamber.

The apparatus includes a portable cabinet in which is to be arranged the other elements thereof and cabinet 6 will preferably be of the construction shown, but it is to be understood that any suitable form of cabinet or housing in which the other elements of the apparatus may be arranged may be substituted for cabinet 6.

The body of the cabinet includes walls and a top and bottom 13 to 18, also rectangular lower and upper frames 19 and 20 and a rectangular confiner 21. The frame 20 is arranged against the inner faces of the walls and in proximity to the upper ends to support the tank. Flanges 22 to 25 also form supports. The top 18 rests on confiner 21 and on the walls and has handle 28 and hinges 26, 27.

Suspended within the cabinet body is an open top tank or receptacle 32 in which the dishes to be washed, rinsed and dried are arranged. As

shown tank 32 has arranged therein a body of a cleansing medium 33 in the form of a fluid which preferably will consist of very hot water and a strong soap. The level of the medium 33 will be below the top of the tank. Preferably the tank will consist of a body lined with porcelain to prevent the medium 33 attacking it whereby the life of the tank will be enhanced. The top of tank 32 is formed with an outwardly directed endless flange 34 disposed at right angles to the tank body 35 and positioned in the space between the flange 25 of frame 20 and the confiner 21. The height of tank 32 is less than that of the chamber 36 provided by the cabinet. The flange 34 in connection with the flange 24 of frame 20 and confiner 21 connects the tank to the cabinet and suspends the tank in the upper portion of chamber 36 in spaced relation with respect to the bottom 17 and walls of the cabinet.

The rectangular confiner 21 rests upon the upper side of the flange 34 of the tank and may consist of strips of appropriate dimensions to reach around the inside of the walls and from the flange to the tops of the walls. In connection with the said walls, it serves to support the cover 18. It also forms the edges of a free space above the tank and below the cover which may receive excess foam and suds thereby assisting in preventing same from over-running the top and sides of the tank and casing. This confiner may be connected to the flange of the tank by any desired holdfast means.

The casing has an entirely closed bottom 17, supported on legs 7 and 8 and supported upon the bottom 17 below the tank 32 is an air compressor 45 and an electric motor 46. Leading from the latter to compressor 45 is a power transmitting means 47 in the form of an endless belt for driving the compressor. The latter is provided with a compressed air discharge pipe 48.

Pipes numbered 43, 44 and 48 to 57 lead from the compressor to the tank. These pipes carry compressed air for agitating the contents of the tank. 57^a is a support. Faucet 29 to 31 and 38 leads from the bottom 32 of the tank and doors 58 are provided for the cabinet.

The dishes or utensils are cleaned by the agitation of the cleansing medium due to the circulation of the compressed air around the dishes. The tank is substantially filled with a cleansing solution formed of hot water and soap. Any commercial saponaceous material may be used. The compressed air provides for the soap solution to clean the dishes without the necessity of the hands entering the solution during the washing

operation. Rinsing may be accomplished by withdrawing the solution from the tank and applying a rinsing water agitated by the compressed air. After the dishes have been rinsed, the water is withdrawn from the tank and the dishes subjected to the compressed air for drying them.

Having described the device as above set forth, what I claim is:

- 10 A washing apparatus structure of the class described including an elongated closed cabinet, an elongated tank within the upper part of the cabinet for receiving articles to be washed together with an agitatable cleaning solution therefor, the

tank having an outwardly extended flange at its top, a frame below the top of the cabinet and attached thereto for supporting said flange and tank, a rectangular confiner resting on said flange and a hinged cover closing the tank and cabinet and resting on the external walls of the latter and on said confiner, providing a free space between the top of the tank and the cover, an entirely closed bottom for the cabinet, a motor and air compressor supported on said bottom immediately below the tank, and a compressed air pipe leading from the compressor to supply air for agitating the contents of the tank.

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