

C. FELLOWS.
DISH CLEANER.

Patented Mar. 29, 1898.

Fig. 1.

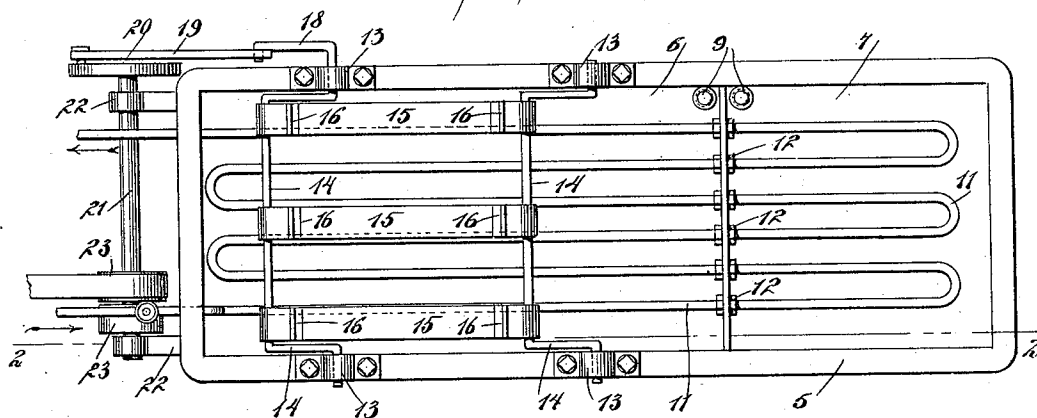


Fig. 2.

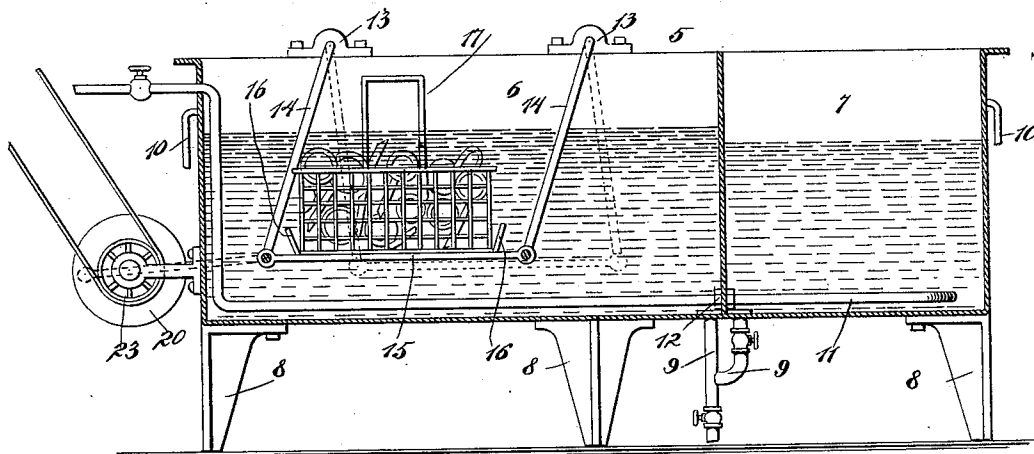


Fig. 4.

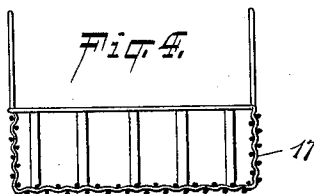
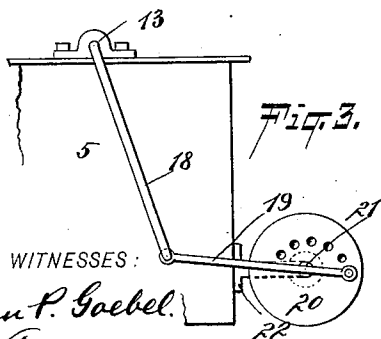


Fig. 3.



WITNESSES :

William P. Goebel.

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UNITED STATES PATENT OFFICE.

CHARLES FELLOWS, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR TO HIMSELF AND FRANK BIGGER, OF SAME PLACE.

DISH-CLEANER.

SPECIFICATION forming part of Letters Patent No. 601,508, dated March 29, 1898.

Application filed August 30, 1897. Serial No. 649,981. (No model.)

To all whom it may concern:

Be it known that I, CHARLES FELLOWS, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and Improved Dish-Washer, of which the following is a full, clear, and exact description.

This invention is an apparatus for washing dishes by causing the dishes to be moved rapidly back and forth through a body of water; and the invention consists in certain peculiar mechanism by which the dishes are mounted and reciprocated rapidly in a tank, means being also provided for changing the dishes to a second body of water, in which they may be rinsed.

This specification is the disclosure of one form of my invention, while the claims define the actual scope of the conception.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of the invention. Fig. 2 is a section on the line 2 2 of Fig. 1. Fig. 3 is a fragmentary elevation showing the driving or crank disk, and Fig. 4 is a view of the basket.

The machine has an elongated tank 5, provided with a main compartment 6, in which the washing operation is performed, and a supplemental compartment 7, in which the rinsing is effected. The tank 5 is supported on legs 8. The two compartments 6 and 7 are provided with outlet-pipes 9, by which they may be drained, and with inlet-pipes 10, by which they may be filled. Coiled in the bottom of the tank 5 is a steam-pipe 11, the terminals of which pass out of the tank to a suitable source of steam, so that the steam may circulate through the coil. The pipe 11 passes through packing-boxes 12, held by a partition between the compartments 6 and 7.

The top edge of the tank 5 is provided with two pairs of bearings 13, in which the swinging hangers 14 are respectively mounted, the hangers extending transversely across the compartment 6 and being joined to each other by longitudinally-extending bands 15, loosely connected with the hangers, so that the hangers may swing forward and back, maintaining the bands 15 horizontally. Each band

15 is provided with two oppositely-slanted projections 16. Upon these bands 15 the basket 17 (shown in detail in Fig. 4) may be placed so as to be seated between the projections 16. This basket is formed of open-work and is adapted to contain the dishes, so that as the basket is reciprocated back and forth through the compartment 6 the dishes will be washed. The forward hanger 14 is provided with a crank-arm 18, located outside of the tank and pivoted to a pitman 19, adjustably connected with a crank-disk 20. The crank-disk 20 is fixed to a shaft 21, carried in bearings 22, fixed to the tank 5. The shaft 21 may be driven by any suitable means—for example, the fast-and-loose-pulley arrangement 23. (Illustrated in Fig. 1.)

The dishes being placed in position and the shaft 21 started to revolution, the hangers 14 will be swung rapidly back and forth, as indicated by dotted lines in Fig. 2, carrying the dishes with them and causing the dishes to be cleansed by the action of the water thereon. When the dishes have been sufficiently cleansed, the basket 17 is raised from the compartment 6 and submerged in the compartment 7, whereupon the dishes will be rinsed, and the washing operation will then be completed.

Various changes in the form, proportion, and minor details of my invention may be resorted to without departing from the spirit and scope thereof. Hence I do not consider myself limited to the precise construction herein shown, but believe that I am entitled to all such variations as come within the terms of my claims.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A washing apparatus having a tank with two compartments divided by a partition, a steam-pipe extending along the bottom of the tank and passed through the partition, packing-boxes in the partition and surrounding the steam-pipe, hangers mounted to swing in one of the compartments, bands connected with the hangers and extending between the same, a crank-arm attached to one of said hangers, a pitman pivoted to the crank-arm, a shaft revolubly mounted on the tank, and a crank-

disk fixed to the shaft and connected with the pitman.

2. A washing apparatus having a tank, two hangers mounted to swing back and forth
5 therein, bands extending between and connecting the hangers, a crank attached to one of the hangers and located outside of the tank, a pitman pivoted to the crank, a shaft revolv-
10 ibly mounted on the tank, and a crank-disk attached to the shaft and to the pitman.

3. A washing apparatus having a tank, two hangers mounted to swing therein, a band connecting the hangers with each other, a
crank-arm fixed to one of the hangers, a pit-

man attached to the crank-arm, a revoluble 15 shaft, and means for driving the pitman from the shaft.

4. A washing apparatus having a tank, hangers mounted to swing within the tank, a connection between the hangers, the hang- 20 ers and the said connection forming a swinging support, a crank-arm attached to the support, and means carried at the exterior of the tank whereby the crank-arm may be swung.

CHARLES FELLOWS.

Witnesses:

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WM. C. GILL.