

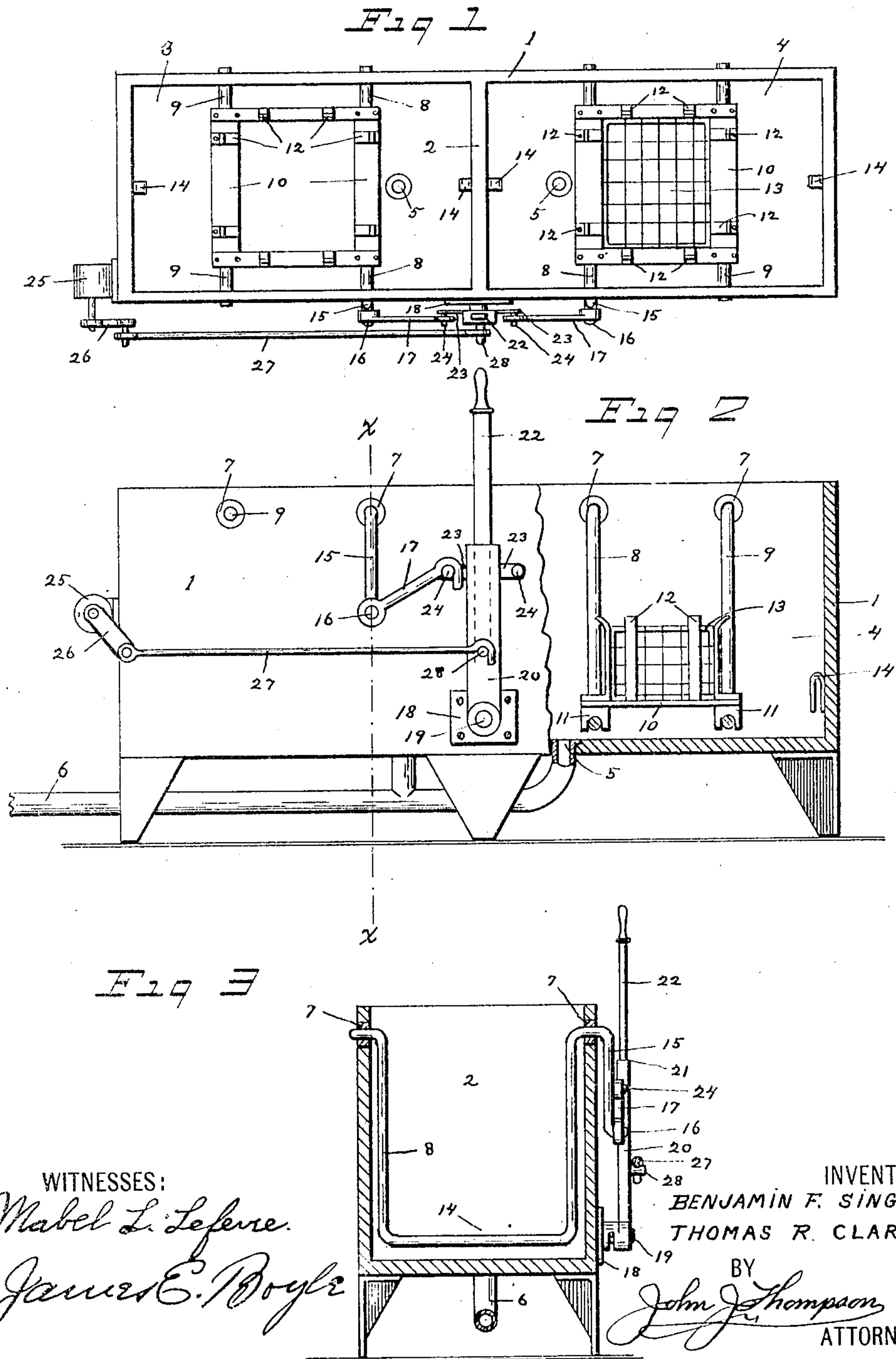
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DISH WASHING MACHINE.

APPLICATION FILED JUNE 16, 1908.

904,731.

Patented Nov. 24, 1908.





# UNITED STATES PATENT OFFICE.

BENJAMIN F. SINGER AND THOMAS R. CLARK, OF LANCASTER, PENNSYLVANIA.

## DISH-WASHING MACHINE.

No. 904,731.

Specification of Letters Patent.

Patented Nov. 24, 1908.

Application filed June 16, 1908. Serial No. 438,714.

*To all whom it may concern:*

Be it known that we, BENJAMIN F. SINGER and THOMAS R. CLARK, citizens of the United States, residing at Lancaster, in the county of Lancaster and State of Pennsylvania, have invented certain new and useful Improvements in Dish-Washing Machines, of which the following is a specification, reference being had therein to the accompanying drawing.

The object of our invention is to provide a machine in which a quantity of dishes may be placed and easily and quickly washed and rinsed without handling and without danger of breakage, which object is attained by placing them in baskets suspended in tanks of water and moving them rapidly back and forth by hand-power or by a motor.

A further object is to provide a machine in which either swinging basket may be operated independent of the other, or both may be operated at the same time, and in which the power may be quickly changed without loss of time and without tools.

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

Various changes in the form, proportion, and minor details of our invention may be made without departing from the spirit and scope thereof. Hence we do not confine ourselves to the precise construction herein shown, but believe that we are entitled to all such variations as come within the terms of our claims.

In the drawings:—Figure 1, is a plan view of our machine, showing the washing and rinsing compartments with one basket removed. Fig. 2, is a front elevation with part of the front cut away to show the interior of one compartment. Fig. 3, is a sectional view of Fig. 2, on the line *a a*, with the basket carrier removed.

Referring to the drawings, 1, indicates a rectangular tank divided midway its ends by the partition 2, into the washing compartment 3, and the rinsing compartment 4, each compartment being provided in the bottom thereof with the drainage outlets 5, connected to the drain pipe 6, and provided with the usual stop-cock.

Journalled in bearings 7, mounted in the sides of the compartments near their tops are the swing hangers 8, and 9, which are

designed for the purpose of supporting the basket frames 10. The basket supporting frames 10, are in the form of rectangular frames and are provided with the downwardly projecting bifurcated lugs 11, adapted to rest upon and embrace the cross bar of the swing hanger to allow said cross bar to turn between said lugs, as the hangers are oscillated, and upon the upper side of said frame 10, are secured the basket clamps 12, which are designed to hold the basket 13, in place. Upon the inner surfaces of the ends and partition near the bottoms thereof we provide the springs 14, which act as a cushion to receive the impact of the basket holder for the purpose of keeping the dishes from being broken by any sudden stoppage or jar.

The swing hangers 8, are formed with a downwardly extending arm 15, integral with one end of the hanger beyond the bearing point and extending downward outside of said tank and terminating in a crank 16, while upon said crank 16, is mounted the connecting link 17, formed with a hooked end. Upon the outer surface of said tank near the center and bottom thereof is secured the plate 18, which is formed with the projecting stud 19, and upon said stud 19, is pivoted the lower end of a handle casing 20, which is formed with the orifice 21, to receive the handle 22; and the lugs 23, with the projecting pins 24, which are adapted to receive the hooked ends of the connecting link 17, thus providing means to reciprocate the dish holders. And for operating the device by power we provide the motor or counter-shaft 25, which may be attached to one end of the machine and provided with a crank arm 26, to which is attached the connecting rod 27, which is formed with a hooked end adapted to engage a stud 28, upon the handle case.

It will be readily seen from the drawings and understood from the foregoing description that the basket holders are placed in position upon the hangers, the baskets inserted, and either or both of the hooked connecting links secured to the handle case; which is then oscillated and thus swings the basket through the water thus washing the contents of the same, or the handle may be removed and the connecting rod from the motor attached and the machine operated by power instead of by the hand of the operator.

In the use of the machine it will be readily



seen that after the dishes are washed, the basket containing them may be transferred to the rinsing compartment, the link of the washing compartment detached from the handle and only the rinsing swing operated.

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

In a washing apparatus of the class described, comprising a tank divided into a washing compartment and a rinsing compartment, basket supporting hangers pivotally mounted within said compartments, one of said hangers in each compartment being formed with a projecting bearing portion extending beyond the side of said compartment, a downwardly extending crank-arm secured to said projecting bearing and formed with a crank-pin near the end thereof, con-

necting-links pivoted upon each crank-pin and formed with a hooked end, a stud secured to the outer surface of said tank near the bottom thereof, a handle casing pivoted at one end upon said stud and formed with a longitudinal handle-receiving orifice in the other end thereof, lugs projecting from and secured to the sides of said handle case and provided with pins at right angles thereto for the purpose of securing said hook-shaped links, and a handle for operating said handle case.

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

BENJAMIN F. SINGER.  
THOMAS R. CLARK.

Witnesses:

WM. J. COULTER,  
MABEL L. LEFEVRE.