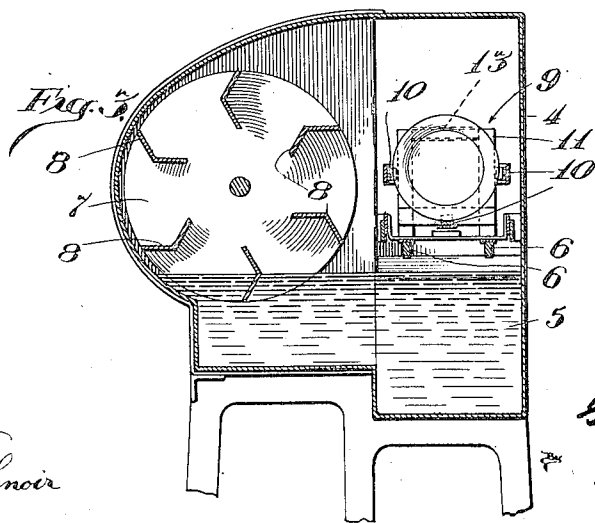
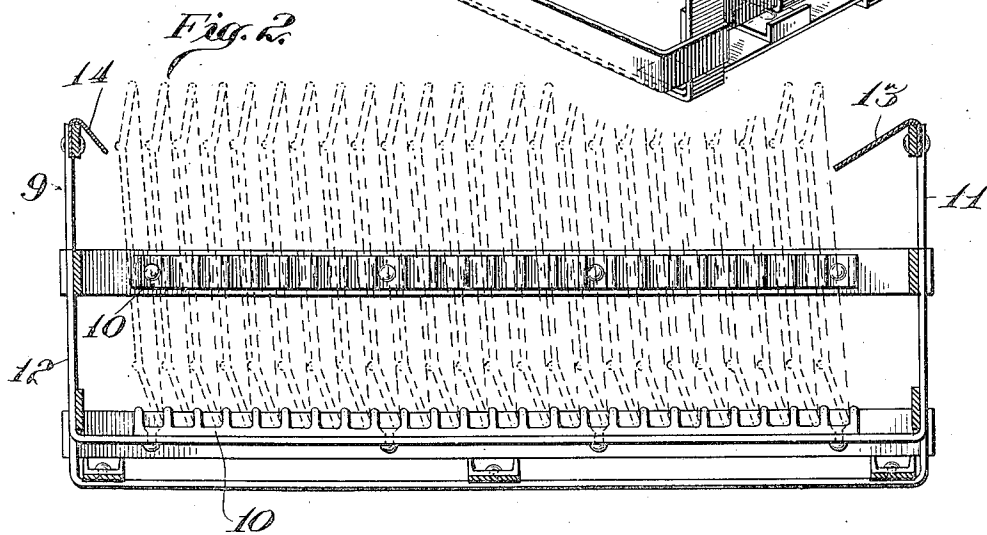
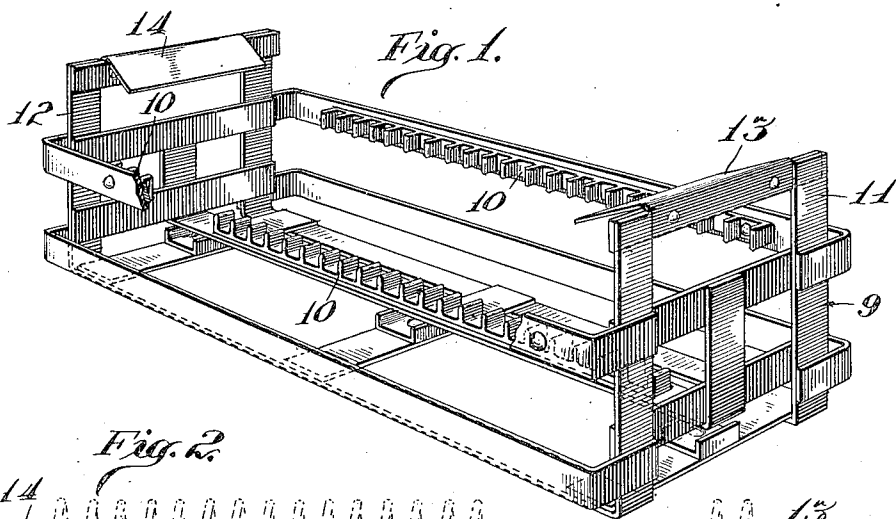


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DISHWASHING APPARATUS
Filed Sept. 10, 1918



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UNITED STATES PATENT OFFICE.

GEORGE S. BLAKESLEE, OF CHICAGO, ILLINOIS.

DISHWASHING APPARATUS.

Application filed September 10, 1918. Serial No. 253,390.

To all whom it may concern:

Be it known that I, GEORGE S. BLAKESLEE, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Dish Washing Apparatus, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to apparatus for washing dishes and has for its object to provide certain improvements by which the washing of dishes will be more efficiently accomplished. My present improvements have to do more particularly with washing machines in which the dishes are washed, while contained in a suitable receptacle or basket, by means of water thrown violently upon and across the basket, the wash water being taken from a tank below the baskets by means of a paddle wheel driven in any suitable way. Machines of this general construction are well-known and are highly efficient in many respects, but in washing certain kinds of dishes, such as plates, it has been found that when the plates are packed in the basket, usually edgewise, the exposed surfaces of the plates at the ends of the basket are not properly washed because the inclined marginal portions of the plates prevent the wash water from forcibly impinging against such surfaces and consequently they are not scoured. My present invention has to do with means for overcoming this defect and it consists in providing suitable deflectors arranged to cooperate with the water throwing means to direct the wash water, and also the rinsing water, against the outer surfaces of the end plates, or the exposed surfaces of other dishes in like situation so that such exposed surfaces will be thoroughly cleansed.

In the accompanying drawings:

Fig. 1 is a perspective view, partly broken away, illustrating a plate-holding basket having my improvements applied thereto;

Fig. 2 is a longitudinal vertical section thereof; and

Fig. 3 is a transverse vertical section through a washing machine having a paddle wheel for throwing wash water upon the dishes to be washed.

Referring to the drawings,—4 indicates the machine as a whole, said machine comprising a water holding tank 5, longitudinal

tracks 6 extending over the tank and adapted to support the dish holding baskets as they pass through the machine, and a paddle wheel 7 at one side of the tracks 6 and having blades 8 which take up water from the tank and throw it upon and across the dishes to be washed. The machine may be of the usual type in which the tank is divided into washing and rinsing compartments, each having a paddle wheel such as that shown in Fig. 3.

9 indicates the dish holding basket, which, in the construction shown, is provided at its opposite sides and along the bottom with racks 10 adapted to engage the marginal portions of plates so that the plates are held edgewise in nested relation to each other transversely of the basket, as illustrated by dotted lines in Fig. 2. At its opposite ends the basket is provided with upwardly-extending frames 11—12, as shown in Figs. 1 and 2. The frame 11 carries a transversely disposed inclined deflector 13 which in the construction shown, is arranged transversely with respect to the axis of the paddle wheels, and extends inward and downward toward the exposed surface of the end plate, and in like manner the frame 12 is provided with a deflector 14 which sustains a similar relation to the adjacent plate at the opposite end of the basket. As best shown in Fig. 2 the deflector 13 is somewhat longer than the deflector 14 as it is opposite the concave surface of the plate, which naturally inclines slightly away from it when the plate is supported by the racks 10. The plate at the other end of the basket is tipped in the same direction so that its upper portion is near the end of the basket and for that reason the deflector 14 is made somewhat shorter.

It will be apparent from the foregoing description that the wash water thrown upon the dishes from above by the paddle wheel 7 will fall upon the deflectors 13—14 as well as upon the plates in the basket, and consequently will be directed laterally by said deflectors against the exposed surfaces of the end plates so that they will be thoroughly scoured and cleansed. The intermediate plates serve as deflectors for each other so that they also are properly cleansed.

While in the drawings I have shown the basket as provided with deflectors at its ends it will be understood that if the plates were

arranged longitudinally of the basket instead of transversely thereof the deflectors would be correspondingly located, although the construction shown is more efficient because the transversely arranged deflectors do not interfere with access of the water to the dishes from the side as would be the case if one of the deflectors were between the paddle wheel and the contents of the basket. The broader claims hereinafter made, however, are intended to include the basket having the deflectors for the purpose described whether such deflectors be located at the ends or at one or both sides thereof.

What I claim as my invention and desire to secure by Letters Patent, is—

1. In a dish washing apparatus, the combination with an open work receptacle adapted to contain the articles to be washed, of means outside of said receptacle for discharging water upon the articles therein and deflecting means carried by said receptacle for directing the water laterally against articles in said receptacle.

2. In a dish washing apparatus, the combination with a rectangular receptacle adapted to contain the articles to be washed, of means outside of said receptacle for discharging water upon the articles therein, and a transversely disposed deflector carried by said receptacle opposite one end portion thereof for directing the water laterally against the article in said receptacle adjacent to said deflector.

3. In a dish washing apparatus, the combination with an openwork receptacle adapted to contain the articles to be washed, of means at one side of said receptacle for discharging water upon the articles therein, and a deflector carried by said receptacle at one end portion thereof for directing the water laterally against the article in said receptacle adjacent to said deflector.

4. In a dish washing apparatus, the combination with an openwork receptacle adapted to contain the articles to be washed, of means outside of said receptacle for discharging water upon the articles therein, and a deflector mounted on the upper portion of said receptacle for directing the

water laterally against the contents of the receptacle.

5. In a dish washing apparatus, the combination with a tank, means above the water in said tank for supporting a receptacle containing the articles to be washed, and a paddle wheel at one side of said tank arranged to throw water transversely thereof upon and across the articles contained in such receptacle, of a receptacle adapted to contain the articles to be washed, and a deflector arranged transversely of the axis of the paddle wheel to direct the water thrown by said paddle wheel longitudinally of the tank and against the contents of said receptacle.

6. In a dish washing apparatus, the combination with a tank, and a paddle wheel having its axis disposed longitudinally of said tank for throwing water transversely thereof over and down upon the articles to be washed, of means for supporting said articles, and a deflector having its upper surface arranged transversely of the axis of the paddle wheel to direct water thrown by said paddle wheel longitudinally of the tank toward such articles.

7. In a dish-washing machine, the combination with a tank, means above the water in said tank for supporting a receptacle containing the articles to be washed, and a paddle wheel having its axis disposed longitudinally of said tank for throwing water upon and across the articles contained in said receptacle, of a receptacle adapted to contain the articles to be washed, and a deflector carried by said receptacle and arranged transversely of the axis of the paddle wheel for directing the water thrown by said paddle wheel laterally against the contents of said receptacle.

8. A plate holding basket comprising an open-work structure having means for supporting plates standing on edge, and having an inclined transversely disposed deflector at the upper part of one end thereof for directing water laterally against the adjacent plate in said basket.

GEORGE S. BLAKESLEE.