

(No Model.)

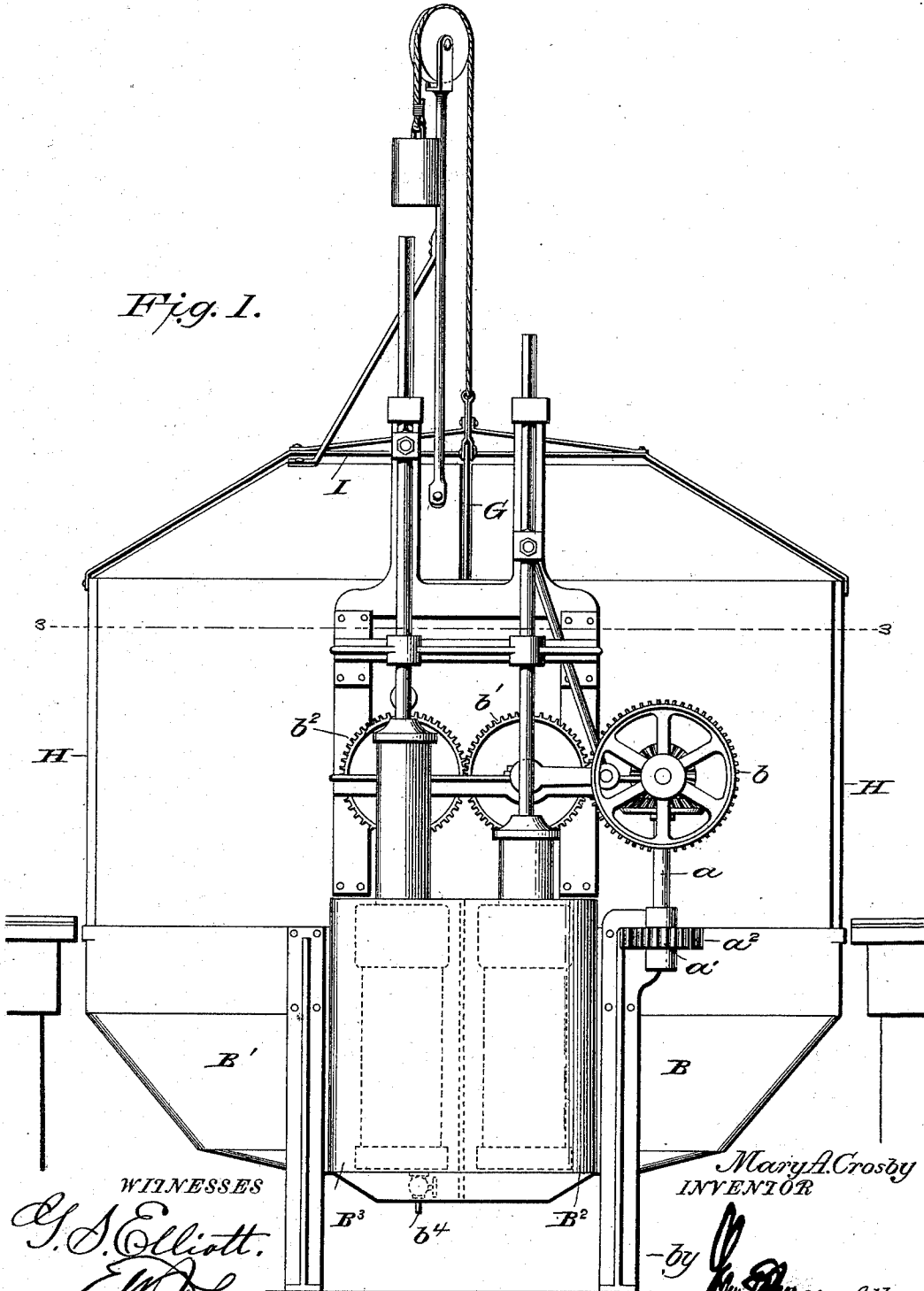
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M. A. CROSBY.
DISH CLEANER.

No. 527,322.

Patented Oct. 9, 1894.

Fig. 1.



WITNESSES

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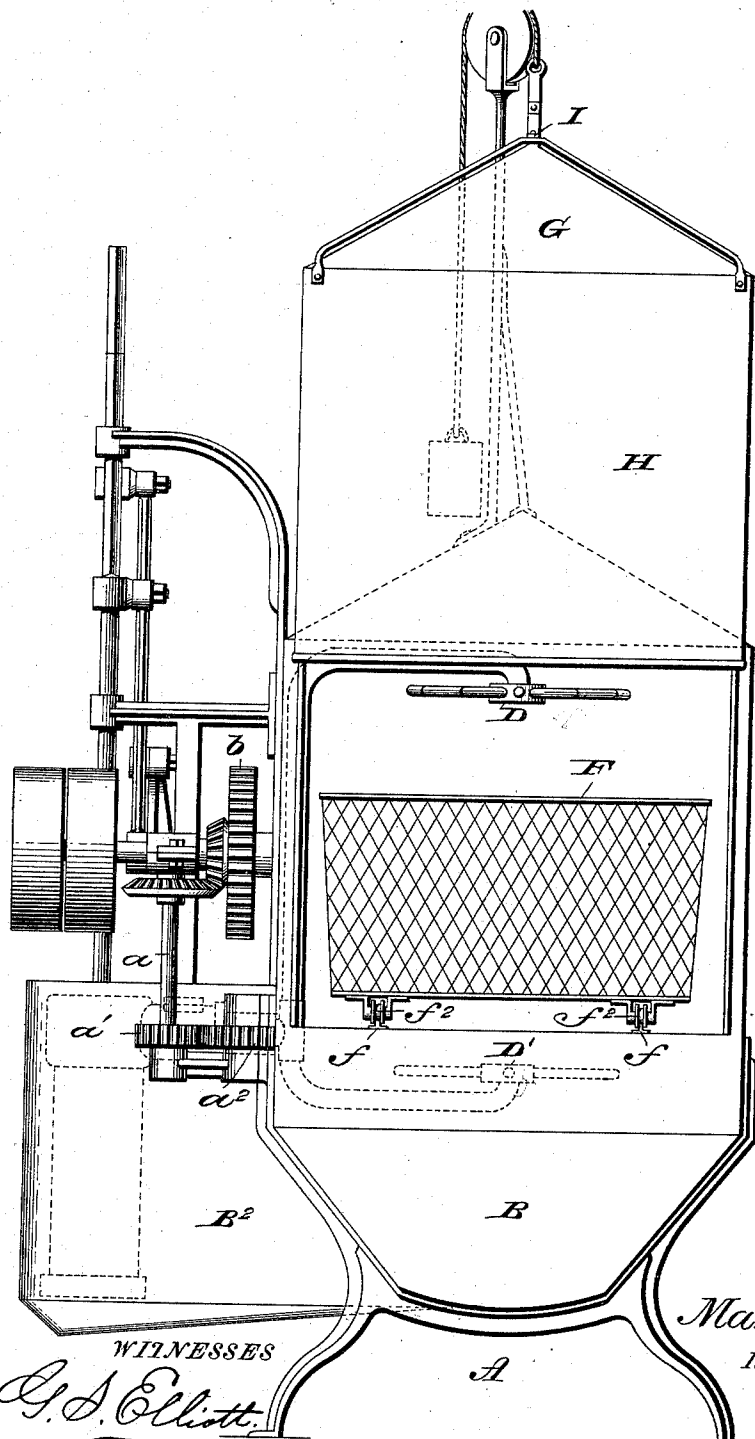


Fig. 2.

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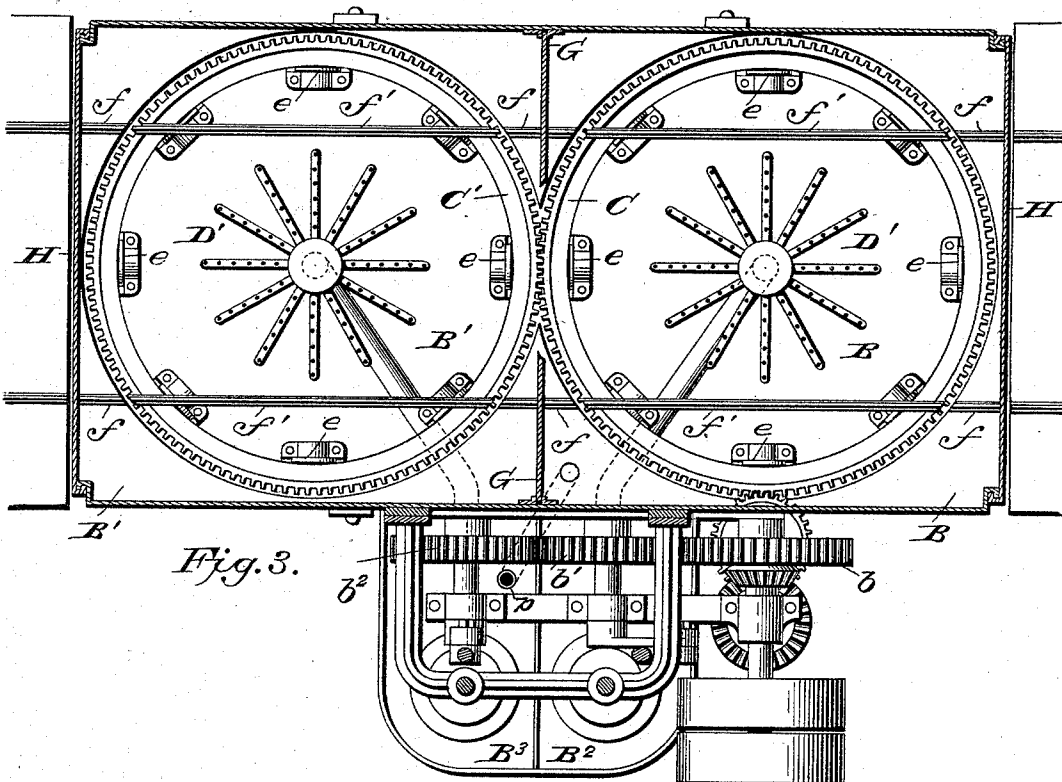


Fig. 3.

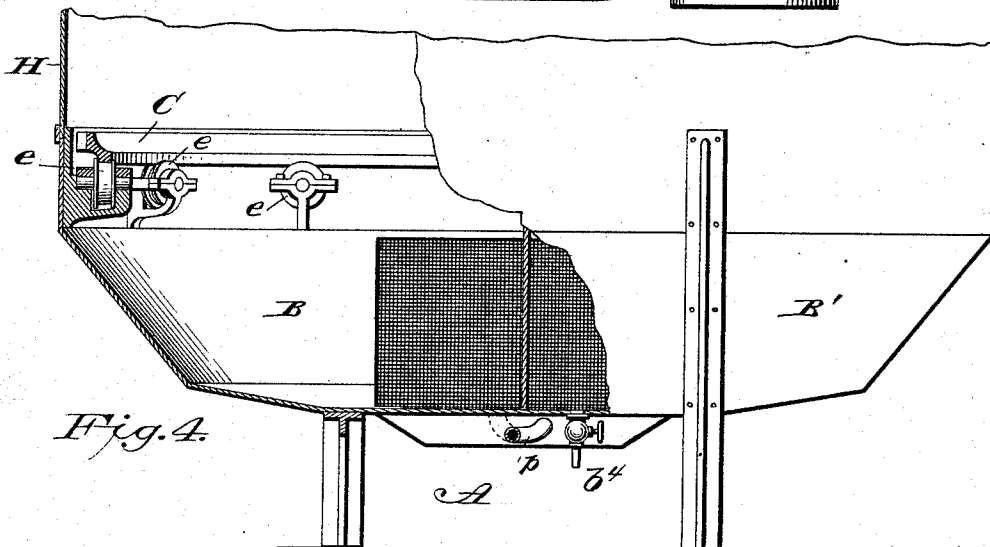


Fig. 4.

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UNITED STATES PATENT OFFICE.

MARY A. CROSBY, OF DURAND, WISCONSIN.

DISH-CLEANER.

SPECIFICATION forming part of Letters Patent No. 527,322, dated October 9, 1894.

Application filed May 3, 1894. Serial No. 509,949. (No model.)

To all whom it may concern:

Be it known that I, MARY A. CROSBY, a citizen of the United States of America, residing at Durand, in the county of Pepin and State of Wisconsin, have invented certain new and useful Improvements in Dish-Washing Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of this invention is to provide an apparatus for washing dishes in connection with which several baskets are adapted to be used in which the dishes to be cleansed are placed, said baskets being placed within the apparatus which is provided with sprayers and means for forcing water therefrom upon the dishes; the apparatus being of such construction that it will provide two compartments each having a turn-table upon which a basket containing the dishes is placed and means for forcing or spraying water upon the dishes, the sprayers being connected with suitable power driven pumps which communicate with a water supply, one of the pumps receiving and discharging fresh water upon the dishes which have been primarily washed and the other pump receiving the water so used and forcing it through the sprayer in the other compartment for primarily washing the dishes.

The invention consists in an apparatus which will be hereinafter fully set forth and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation of a dish-washing apparatus constructed in accordance with my invention. Fig. 2 is also a side elevation showing the end doors and central partition raised. Fig. 3 is a sectional view on the line 3-3 of Fig. 1, and Fig. 4 is a detail view of the base portion of the apparatus, partly broken away.

A designates the base of the apparatus which is constructed to support tanks B and B' above which the dishes to be washed are placed and tanks B² and B³ which receive the water supply for the pumps, the pumps being located within the tanks B² and B³ and pro-

vided with mechanism for forcing separate streams of water through suitably constructed sprayers upon the dishes. The pumps are of any suitable construction and the mechanism for driving them is geared with teeth formed on the periphery of one of the turn-tables C C' which are supported above the tanks B and B' and receive the dishes to be washed, said turn-tables being similar in construction and meshing with each other as shown in Fig. 3. The driving shaft of the mechanism for operating the pumps has an idle and a fixed pulley over which the driving-belt passes, a shifting-lever of ordinary construction being provided for shifting the belt on and off of the fixed pulley. The driving shaft has also a beveled pinion which meshes with a gear-wheel on a vertical shaft *a*, said shaft having a pinion *a'* in mesh with a gearwheel *a²*, which is in mesh with the teeth on the periphery of the turn-table C. The driving shaft has also a gearwheel *b* which meshes with a gearwheel *b'* which in turn meshes with a gearwheel *b²*; the shafts upon which the gearwheels *b'* and *b²* are mounted having crank-arms to which are attached pitman-rods suitably connected to the piston-rods of the pumps. The water is supplied to the tank B² and is drawn therefrom by the pump therein and discharged through the spraying nozzles D and D' upon the dishes above the tank B falling into said tank and being led therefrom to the tank B³ to supply the other pump which takes the water therefrom and sprays it upon the dishes to primarily wash them, the water being then drawn from the apparatus through the cock *b⁴*. A suitable strainer and check-valve are interposed between the two tanks.

In the drawings I have illustrated a preferred arrangement of gearing for turning the tables C and C' and operating the pumps, but it is obvious that this operating mechanism can be modified without departing from the spirit of my invention.

The spraying nozzles D and D' are connected to the pumps by pipes D³, and each nozzle consists of a plurality of diverging pipes having perforations through which the water is ejected upon the dishes.

The base portion of the dish-washing apparatus at a point above the level of the lower

nozzles D' is provided with brackets which carry grooved rollers *e*, these rollers serving as supports for the turn-tables C and C'. The side pieces of the structure support a stationary floor or platform which is on a line with the turn-tables, and upon the stationary platform and turn-tables are secured tracks *f* and *f'* which form the supports and guides for the baskets F, said baskets being provided with grooved supporting rollers *f*² and are preferably made up of wire netting. A platform may be provided on each side of the apparatus.

As shown in the drawings the turn-tables C and C' are simply annular plates which support the tracks *f* and are provided with gear teeth and a lower edge which rests upon the supporting rollers *e*.

The side pieces of the upper part of the apparatus support the cover which is made up of two parts with a space between them through which the partition G slides, this partition being connected to end gates or slides H H by longitudinal bar I to which is connected a flexible weighted connection to provide a counterbalance so that the partition and end gates or slides can be easily raised and lowered. The flexible connection passes over a pulley suitably supported by uprights extending from the top of the apparatus.

In operation the tank B² is filled with water, the end gates and partition being raised and the turn-tables C and C' turned so that the tracks thereon will be on a line with the tracks on the platforms. One of the baskets filled with dishes suitably packed is then run from the platform on to the turn-table C and the end gates and partition are lowered. The driving belt is now shifted so that it will operate the pumps and turn the tables C and C'. After a sufficient quantity of water has been thrown upon the dishes contained in the basket the driving-belt is shifted and the partition and end gates raised so that another basket of dishes can be moved upon the turn-table C' and the water which was first placed in the tank B², pumped therefrom and dis-

charged upon the dishes as previously set forth, after which it flows through any suitable connections as a pipe *p* to the tank B³ from which the water which has been previously used is then drawn up by the other pump to primarily wash the dishes on the turn-table C', while the first-mentioned pump throws fresh water on the dishes on the other platform to rinse the same.

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

1. In an apparatus for washing dishes, the combination, of a receptacle having turn-tables C and C' with tracks, stationary platforms with tracks located adjacent the turn-tables, together with a central partition and end gates connected to each other and adapted to be moved in unison, substantially as shown and for the purpose set forth.

2. In a dish-washing apparatus, the combination, of a receptacle having spraying devices, a central partition and end gates which are adapted to be lowered to form separate compartments, the end gates and central partition being connected to each other and to a counterbalancing weight, substantially as shown and for the purpose set forth.

3. In a dish-washing apparatus, the combination, of turn-tables C and C' having tracks, said turn-tables being mounted in a receptacle having side pieces and a top, of end gates H H and a central partition G connected to each other by a central bar, a flexible connection attached to said bar and passing over a pulley to receive a counterbalancing weight, spraying devices D and D' located above and below the turn-tables, and baskets having grooved rollers whereby they are adapted to travel on the tracks of the turn-tables, substantially as shown and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

MARY A. CROSBY.

Witnesses:

B. CATURA,

J. D. ELDRIDGE.