

(No Model.)

2 Sheets—Sheet 1.

M. J. PARMLEY.
DISH WASHER.

No. 449,746.

Patented Apr. 7, 1891.

Fig. 1.

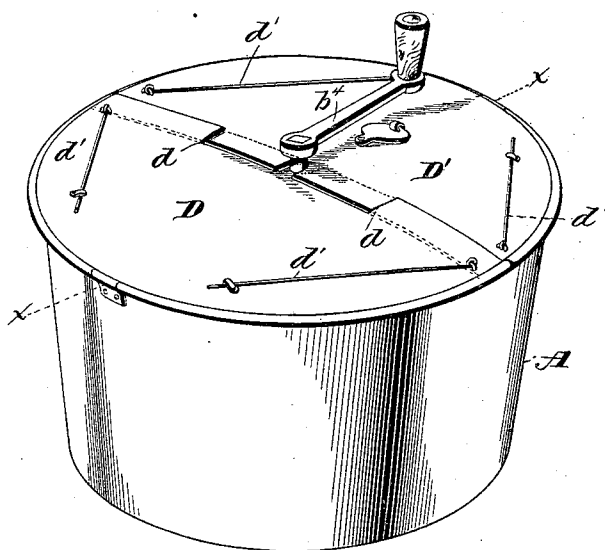
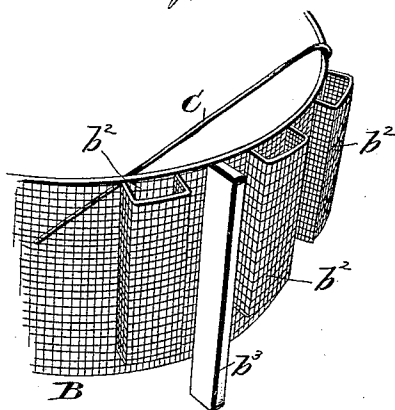


Fig. 2.



Witnesses:
Chas. Williamson
Henry C. Hazard

Inventor:
Mahala J. Parmley, by
Cindie A. Russell, her atty

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Fig. 3.

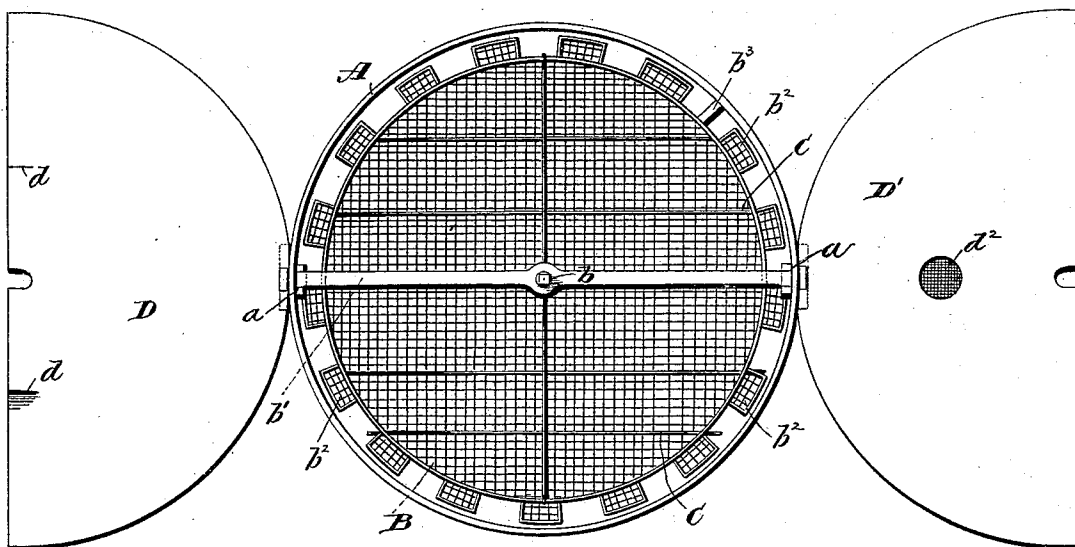
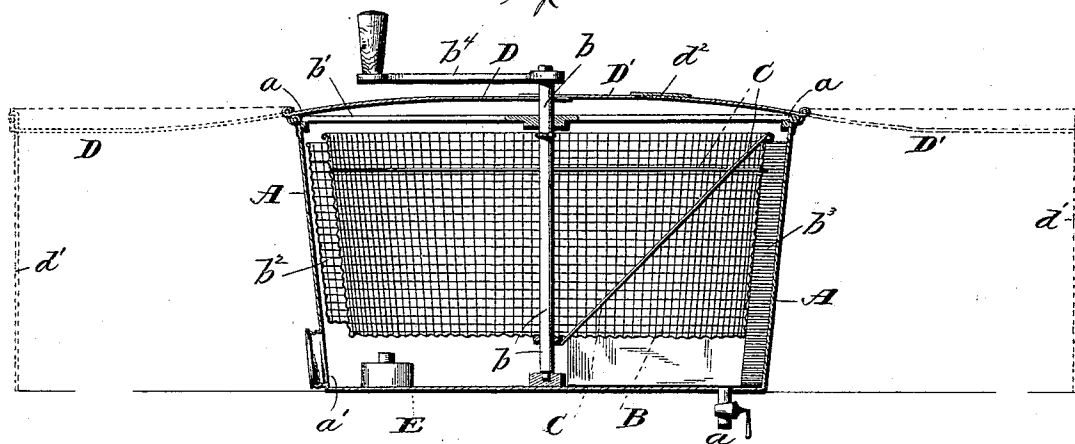


Fig. 4.



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UNITED STATES PATENT OFFICE.

MAHALA J. PARMLEY, OF FOOTEVILLE, WISCONSIN.

DISH-WASHER.

SPECIFICATION forming part of Letters Patent No. 449,746, dated April 7, 1891.

Application filed July 14, 1890. Serial No. 358,605. (No model.)

To all whom it may concern:

Be it known that I, MAHALA J. PARMLEY, of Footeville, in the county of Rock, and in the State of Wisconsin, have invented certain new and useful Improvements in Dish-Washers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of a dish-washing apparatus constructed in accordance with my invention. Fig. 2 is a similar view of a portion of the receptacle for containing the articles to be washed. Fig. 3 is a plan view of my apparatus with its hinged lids or covers open, and Fig. 4 is a vertical sectional view on the line *xx* of Fig. 1.

Letters of like name and kind refer to like parts in each of the figures.

The design of my invention is to produce an apparatus for washing dishes, wherein the articles to be washed are contained within a rotary receptacle which is submerged in water, the cleansing being effected by the forcible contact which is caused between such articles and the water; and to this end said invention consists in the dish-washing apparatus and in the construction, arrangement, and combination of the parts thereof, as herein-after specified.

In carrying my invention into practice I employ a vessel A, which, for ordinary household purposes, is of about the size and shape of a dish-pan, and place centrally within the same a rotary dish-receptacle B, that is mounted upon and rotates with a vertically-arranged shaft *b*, which latter is supported at its lower end in a suitable bearing provided for the purpose on the bottom of the vessel A and near its upper end is retained in place by a removable bar *b'*, that extends diametrically across the top of said vessel A, being supported in such position by sockets *a* and *a'*, arranged on its inner sides. The dimensions of the receptacle B vertically and circumferentially are such as to permit it to be readily contained within the vessel A and rotated therein without coming into contact with it. Said receptacle is open at its top and, as shown, has its sides and bottom formed of wire; but these may, if preferred, be constructed from perforated sheet metal, the design being to enable water

when placed in the vessel A to have free and ready access to such articles as may be placed within and supported by the receptacle B.

As it is important to keep the dishes which may be placed in the receptacle B out of contact with each other and to retain them in positions immovable with reference to each other to obviate the possibility of damage by being dashed together in consequence of the rotation of said receptacle and the violent agitation of the water, I provide for this purpose a number of loose rods C, which can be passed through the meshes or perforations of such receptacle at any desired point and in any desired position, either horizontally across from side to side or inclined downwardly, as may be necessary or expedient in view of the shapes and sizes of the articles to be cleaned. Said rods may have hooks or enlargements at one of their ends, in order that they may be kept in the desired positions. These rods are most convenient and readily effect the object sought without obstructing to a material extent the access of water to the dishes. The great advantage, however, arising from their use lies in their adaptability to secure in place articles of various sizes and shapes.

For the support of knives, forks, and similarly-shaped table-ware a number of small wire or perforated pockets *b² b²* are attached to the outer periphery of the receptacle B, being given such dimensions as best adapt them for the use intended.

To readily clean the vessel A and prevent the deposit and accumulation of grease, &c., which, if not removed, will on a subsequent use of the apparatus impair or befoul a new supply of water, I attach at some suitable point on the periphery of the receptacle B, so as to rub against the side of the vessel A, a rubbing or cleaning device *b³*, which consists merely of a strip of felt or other suitable material having a length equal to the height of the said vessel. If desired, as shown in Fig. 4, a second strip may be attached to the bottom of said receptacle, so as to rub the bottom of the vessel A, a piece extending from the shaft *b* to the circumference of the receptacle being sufficient for the purpose.

The top of the vessel A is closed by means of a cover consisting of two semicircular parts D D', which are hinged each to the top edge

of said vessel at diametrically-opposite points, and which when closed overlap and interlock at their straight edges, one of which parts D, to permit such interlocking, being provided with two slits d d , into which passes the edge of the part D'. This construction not only aids to prevent accidental opening of said cover, but also constitutes a desirable form of joint to prevent outward passage of water from the vessel. As shown, said cover parts are provided with legs d' d' d' d' , which, when the former are thrown open, as seen in Figs. 3 and 4, serve to support said parts D and D' in a horizontal position, thereby permitting them to be used as shelves or supports for dishes, &c. When not in use, said legs are folded down upon said covers, as shown.

An opening d^2 , screened to prevent small objects from falling through it and having a suitable cover, is provided in one of the covers or lids D D' to permit the egress of steam from the apparatus when desired, while to draw off water the bottom of the vessel A is provided with a cock a . After the water has been drawn off a small lamp E may be put in the apparatus through an opening a' , having a removable cap, which opening is formed in the side of the vessel A near its bottom to facilitate drying the articles which have been washed; but this need be resorted to only when a large apparatus is employed, such not being necessary for ordinary family use.

The means shown for rotating the receptacle B consist of a crank b^1 , which is detachably secured to a portion of the shaft b , that projects above the cover, the two parts of the latter being slotted to enable them to be closed down around such projecting portion.

Having thus described my invention, what I claim is—

1. In an apparatus for washing dishes, in combination, an inclosing vessel, the cover consisting of the two parts hinged to said vessel at diametrically-opposite points and adapted to overlap and interlock with each other, and a rotary dish-containing receptacle, substantially as and for the purpose set forth.

2. In an apparatus for washing dishes, in combination, an inclosing vessel, the cover consisting of two parts hinged to said vessel at diametrically-opposite points, one of said parts being slitted, whereby the adjoining edges of said parts may be caused to interlock, and a rotary dish-receptacle, substantially as and for the purpose specified.

3. In an apparatus for washing dishes, in combination, an inclosing vessel, the rotary dish-receptacle, the cover consisting of two hinged parts, and the supporting-legs for said cover parts attached thereto, substantially as and for the purpose shown.

4. In an apparatus for washing dishes, in combination, an inclosing vessel, a rotary dish-containing receptacle, and a cleaning device carried by the latter, substantially as and for the purpose shown.

5. In an apparatus for washing dishes, in combination, an inclosing vessel, a rotary dish-containing receptacle, and a cleaning device consisting of a strip of yielding material attached to the periphery of the latter and rubbing against the side of said vessel, substantially as and for the purpose set forth.

6. In an apparatus for washing dishes, in combination, an inclosing vessel, a rotary perforated dish-containing receptacle, the dish separating and holding rods inserted through the perforations in the latter, and the device for cleaning said vessel carried by said receptacle, substantially as and for the purpose specified.

7. In an apparatus for washing dishes, in combination with an inclosing vessel, a rotary perforated dish-containing receptacle, and the perforated pockets attached to the periphery of the latter, substantially as and for the purpose shown.

8. In an apparatus for washing dishes, in combination with an inclosing casing or vessel, a rotary perforated receptacle, and the perforated pockets attached to the outer periphery of the latter, substantially as and for the purpose set forth.

9. In an apparatus for washing dishes, in combination, an inclosing vessel, a rotary perforated dish containing receptacle, the dish separating and holding rods inserted through the perforations in the latter, and the pockets and the cleaning device carried on the periphery of said receptacle, substantially as and for the purpose set forth.

10. In an apparatus for washing dishes, in combination, an inclosing vessel, a rotary perforated receptacle, and a heating device placed within the former below the latter, substantially as and for the purpose specified.

11. In an apparatus for washing dishes, in combination with a rotary perforated receptacle, an inclosing casing therefor, and the heating or drying device placed within the latter beneath the former, said casing being provided in its side at its lower end with an opening for the insertion and removal of said drying device, substantially as and for the purpose shown.

In testimony that I claim the foregoing I have hereunto set my hand this 6th day of May, 1890.

MAHALA J. PARMLEY.

Witnesses:

GEO. I. PARMLEY,
HARVEY S. W. DE GAW.