No. 621,909. Patented Mar. 28, 1899.

# C. E. DRAKE.

## DISH CLEANER.

(Application filed Dec. 14, 1897.)

(No Model.)

Fig. 2.

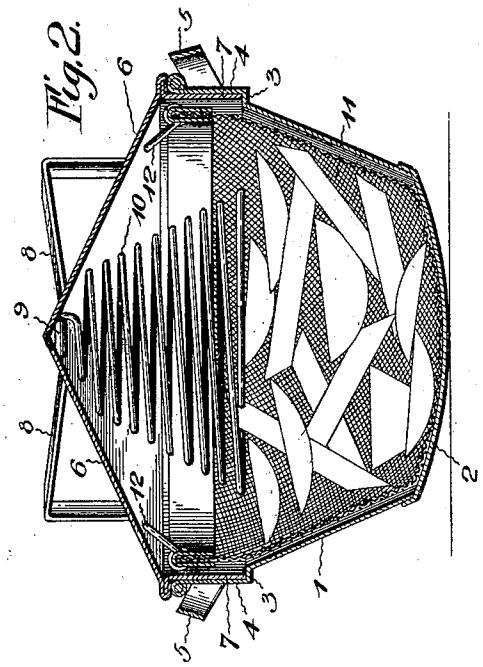


Fig. 4.

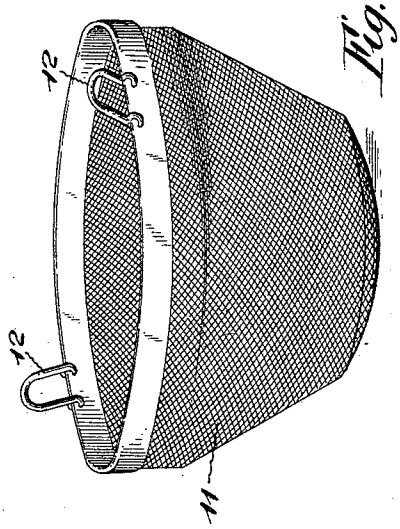


Fig. 1.

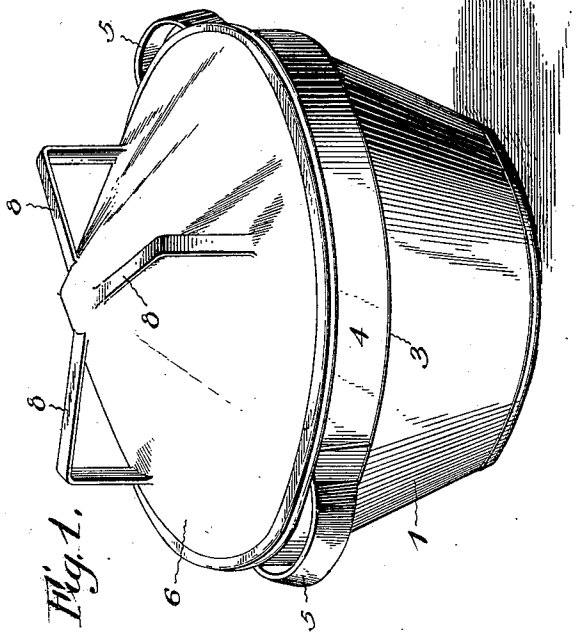
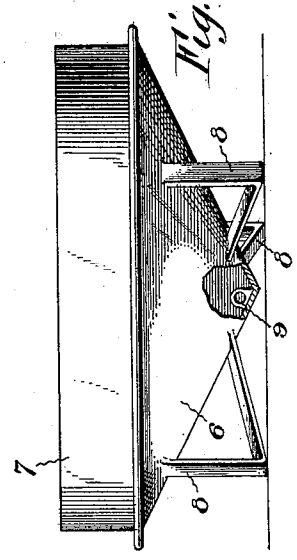


Fig. 3.



Inventor,

Charles E. Drake.

Witnesses

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

# UNITED STATES PATENT OFFICE.

CHARLES E. DRAKE, OF EARLVILLE, NEW YORK, ASSIGNOR OF ONE-HALF TO LEWIS W. FARR, OF SAME PLACE.

## DISH-CLEANER.

SPECIFICATION forming part of Letters Patent No. 621,909, dated March 28, 1899.

Application filed December 14, 1897. Serial No. 661,877. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES E. DRAKE, a citizen of the United States, residing at Earlville, in the county of Madison and State of New York, have invented a new and useful Dish-Washer, of which the following is a specification.

This invention relates to dish-washing machinery, and is designed to simplify the operation of dish-washing and to provide simple and effective means for attaining this end.

For a full understanding of the merits and advantages of the invention reference is to be had to the accompanying drawings and the following description.

The improvement is susceptible of various changes in the form, proportion, and the minor details of construction without departing from the principle or sacrificing any of the advantages thereof, and to a full disclosure of the invention an adaptation thereof is shown in the accompanying drawings, in which—

Figure 1 is a perspective view of a dish-washer constructed in accordance with this invention. Fig. 2 is a vertical central section thereof. Fig. 3 is a side elevation of the cover as it will appear when used for draining or rinsing the dishes, parts being broken away. Fig. 4 is a perspective view of the basket or dish-receptacle.

Corresponding and like parts are referred to in the following description and indicated in the several views of the drawings by the same reference characters.

The vessel or pan 1 for receiving the suds-water and the dishes to be cleansed is formed with a convex bottom 2, so as to admit of the vessel being rocked in all directions, so as to secure a swashing of the water from all points, thereby insuring a thorough cleansing of the dishes. The sides of the vessel or pan are upwardly flaring and are formed with an outer shoulder 3, from which rises a vertical rim 4, which is wired at its upper edge to secure the necessary stiffness and provide a finish. Handles 5 are located at the sides of the vessel and are gripped when manipulating or moving the device.

The cover 6 is of conical form and has a rim 7 to fit snugly within the rim 4 of the vessel and rest upon the shoulder 3, said cover having a marginal portion beyond the rim 7 to extend over the upper edge of the rim 4. This construction prevents the splashing out of the water when rocking the vessel vigorously or turning or spinning it upon its convex bottom. A series of handles 8 are applied to the sloping sides of the cover and are of angular form, and their highest points extend beyond a plane passing horizontally through the apex of the cover, so as to engage with a table or surface and form supports or feet for the cover when the latter is used as a receptacle for draining or rinsing the dishes. These handles 8 may be provided in any number, three being sufficient, as they will serve to fix the position of the cover when turned upside down and used as a receptacle in the manner set forth and as shown most clearly in Fig. 3. A loop or keeper 9 is provided upon the inner side of the cover near the apex and receives the upper end of the pressure-spring 10, which latter may be of any form and has detachable connection with the cover in the manner set forth and is designed to exert a pressure upon the dishes and prevent them from rattling and moving about when rocking the vessel or pan 1.

A basket, cage, or receptacle 11 is removably inserted within the vessel 1 and receives the dishes or articles to be washed and in form conforms to the outline of the vessel or pan, so as to fit snugly therein. This basket is provided with handles 12 and may be constructed of wire or any open-work generally resorted to in the manufacture of articles of this character.

The dishes or articles to be washed are placed in the basket 11, and the latter is set within the vessel 1. The suds-water is supplied in proper quantity, and the cover 6 is fitted to the vessel, with the spring 10 exerting a downward pressure upon the dishes. The vessel is now violently rocked in all directions and turned upon its convex bottom, whereby the water is caused to move rapidly from different points and in different directions, thereby dislodging grease and other matter from the dishes and cleansing the same. After the washing operation the cover is re-

moved and inverted upon the table or other support and the basket containing the dishes placed therein, when scalding water may be poured over the dishes, thereby rinsing them, and in a few moments the dishes, thoroughly drained and dried by evaporation, may be placed away for future use.

Having thus described the invention, what is claimed as new is—

1. The herein-described dish-washer, comprising a vessel having a convex bottom, upwardly-flaring sides, a vertical rim, and a shoulder between the lower edge of the rim and the top edge of the flaring sides, a basket of corresponding shape to the vessel and snugly fitted therein, a conical-shaped cover having a rim fitting within the rim of the vessel and engaging with the shoulder thereof, a pressure-spring detachably connected with the inner side of the cover at or near its apex, and a series of handles disposed around the cover and adapted to form supports for the cover when inverted and used as a receptacle, substantially as set forth.

2. In a washing-machine, the combination with a vessel having a convex bottom, of a basket or receptacle of foraminous material fitting within the vessel and adapted to contain the dishes, a cover for the vessel, and a spring depending from the under side of the cover and adapted to bear against the dishes to prevent movement and breakage thereof, substantially as shown and described.

3. In a washing-machine, the combination with a vessel having a convex bottom, upwardly-flaring sides, a vertical rim, and a shoulder between the lower edge of the rim and the top edge of the flaring sides, a basket of similar shape and formed of foraminous material adapted to contain the dishes and fit snugly within the vessel, a cover, and a removable conical pressure-spring depending from the inside of the cover and formed with a broad base adapted to bear upon the dishes and prevent movement and breakage thereof, substantially as shown and described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

CHARLES E. DRAKE.

Witnesses:
PARKER NEWTON,
GEO. H. WALES.