July 1, 1930. R. H. RHOADES ET AL 1,769,165

PORTABLE DISHWASHING CABINET

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Fig. 1.

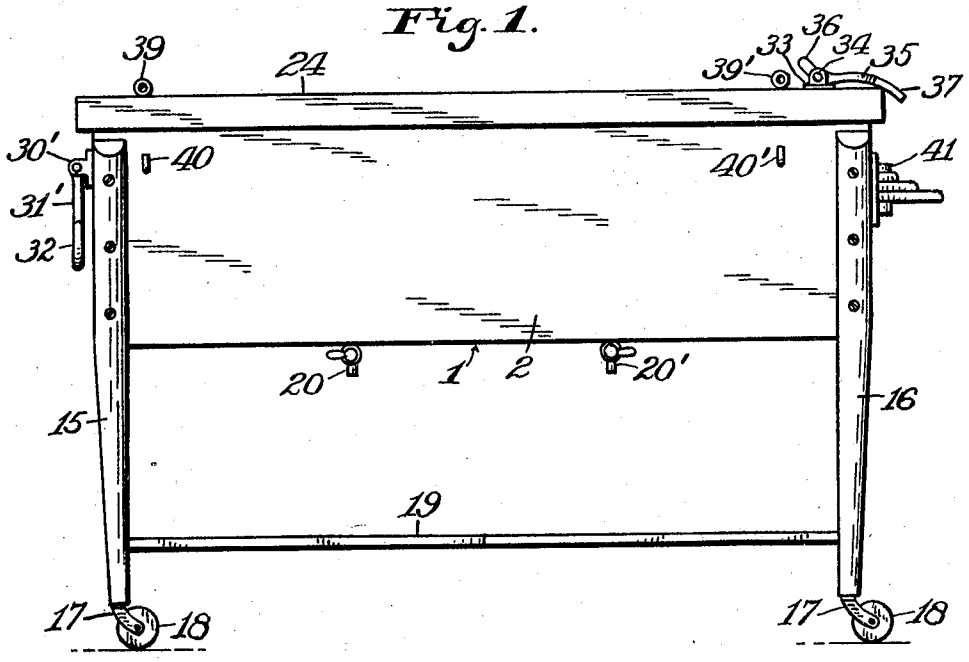


Fig. 2.

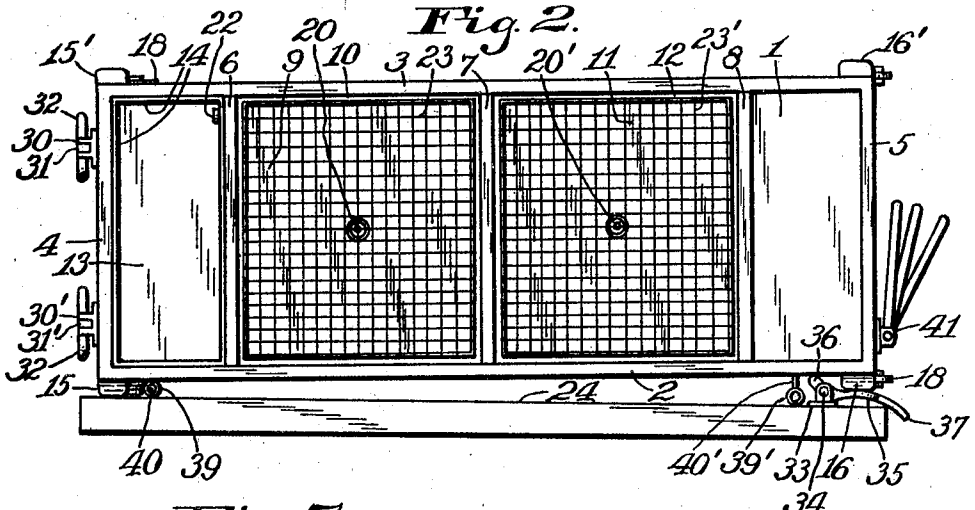
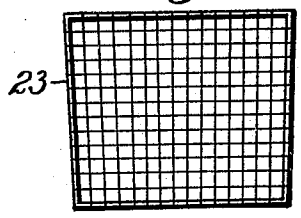


Fig. 3.



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Fig. 4.

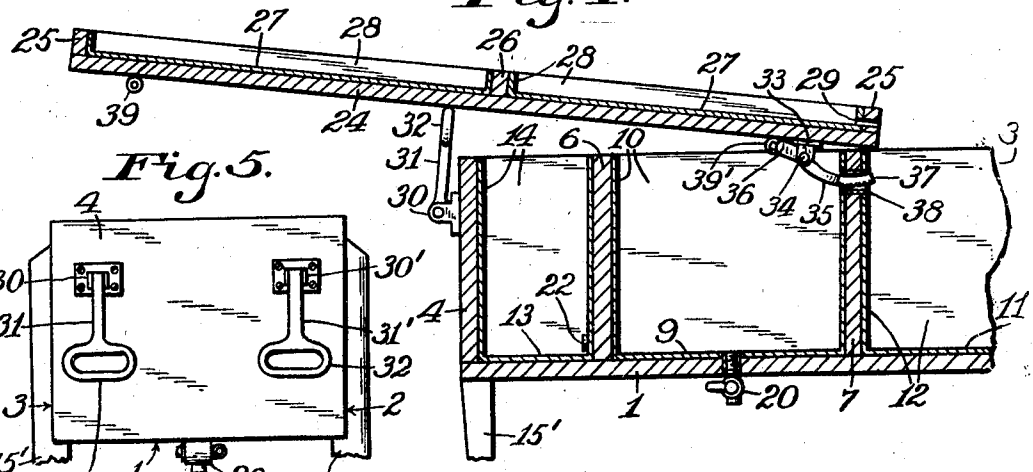


Fig. 5.

Fig. 6.

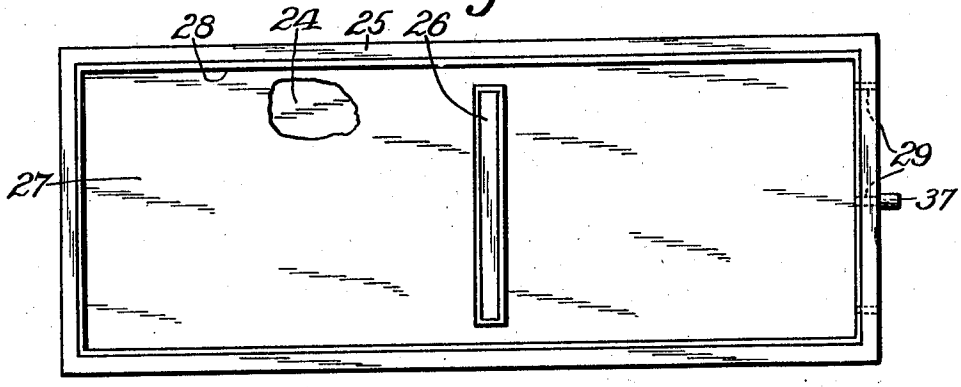


Fig. 7.

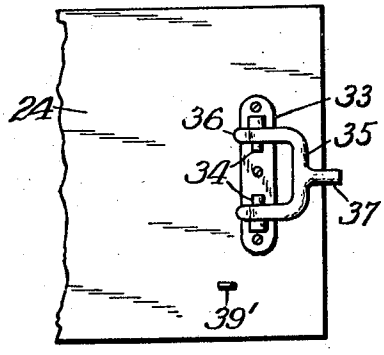
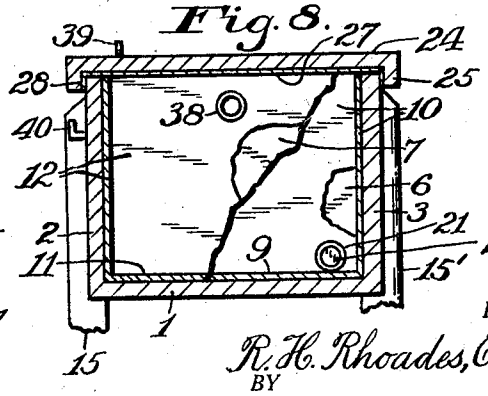


Fig. 8.



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UNITED STATES PATENT OFFICE

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PORTABLE DISH-WASHING CABINET

Application filed October 5, 1927. Serial No. 224,186.

The invention relates to a cabinet that is designed to be used in cleansing dining-table articles, such as plates, cups and saucers, and various kinds of dishes, and also silver-ware and cooking utensils, the invention having reference more particularly to a cabinet of the above-mentioned character that is adapted to be readily moved from room to room and be suitable for family use.

An object of the invention is to provide facilities for cleansing household utensils and chinaware or similar articles in a convenient and sanitary manner, with a purpose of lightening the work of those on whom diswashing devolves.

Another object is to provide an improved cabinet that shall be of such construction as to be adapted to be readily moved about and to enable one to take care of the dishwashing problem in a home with the least possible exertion and effort.

A further object is to provide an improved cabinet that shall be of simple and inexpensive construction and which shall be adapted to be compact and convenient for the various operations consequent to the clearing of a dining-table and the washing of dishes and other articles, and which shall be durable and economical in use.

With the above-mentioned and other objects in view, the invention consists in a wheel-equipped vehicle constructed as a cabinet in which articles may be cleansed and sterilized, drained and dried, the cabinet having a compartment to receive garbage and also a compartment to hold towels; the invention consisting further in the parts and combinations and arrangements of parts as hereinafter particularly described and further defined in the appended claims.

Referring to the accompanying drawings,—Figure 1 is a side elevation of the cabinet as preferably constructed; Fig. 2 is a top plan of the cabinet with its lid removed and hung on the body of the cabinet; Fig 3 is an elevational view of one of the wire baskets with which the cabinet is provided; Fig. 4 is a longitudinal central section in which the lid is inverted upon the body part of the cabinet, the lid being constructed to constitute either a cover for the body part or a drain board on which washed articles are to be placed while draining and drying takes place, one end portion of the body part being broken away; Fig. 5 is an end view of the body part partially broken away; Fig. 6 is an inverted plan view of the combination lid and drain board; Fig. 7 is a fragmentary top plan of the lid which has a novel device having dual functions connected therewith, and Fig. 8 is a transverse vertical section on different planes to reveal features of adjacent compartments.

Similar reference characters in the different figures of the drawings indicate corresponding elements or features of construction herein referred to in detail.

The improved cabinet is illustrated and described as mainly a wooden structure but is of such form as to permit of an all-metal structure, the body part of the cabinet comprising a bottom member 1 that is oblong in plan, two side boards 2 and 3 and relatively shorter end boards 4 and 5, and also transverse partitions 6, 7 and 8 intermediate of the end boards, all being fixed to the bottom member. Two of the partitions are arranged a considerable distance apart so as to provide a compartment for a receptacle adjacent to the end board 4 to receive garbage and débris, the other portion a suitable distance from the end board 5 to provide a compartment for towels, and the third partition is arranged midway between the other two to provide two large washing tanks that are approximately square in plan. One of the tanks has a metallic floor lining 9 and a wall lining 10, the adjacent tank having a metallic bottom lining 11 and a wall lining 12. The garbage compartment preferably has a metallic bottom lining 13 and a wall lining 14. The body part is provided with four legs 15 and 16 on one side and 15′ and 16′ on the opposite side thereof, at the several corners of the bottom part respectively. Each leg is provided with a caster frame 17 having a wheel 18 mounted therein, enabling the cabinet to be easily moved in various directions on a floor. The legs are suitably braced, preferably by means of a conventional "X" brace 19, or other suitable form

as may be desired. The washing compartments are provided with drain cocks 20 and 20′ respectively that are connected to the bottom member 1, preferably being screwed into a bushing secured in the member. Preferably also a bushing 21 is inserted in the lower portion of the partition 6 and a plug 22 is inserted therein to permit cleansing water to flow from the garbage compartment into the adjacent washing tank and out through the drain cock 20. Two reticulate baskets are provided which preferably comprise woven wire baskets 23 and 23′, alike in dimensions so as to be interchangeable in the tanks to hold articles therein.

The combination lid and drain board comprises a cover slab 24 adapted to entirely cover the body part, being provided with a continuous marginal flange 25 to extend slightly down on the outer side of the body part, and being suitable when the lid is inverted to retain articles thereon while draining, the middle portion preferably having a partitional cleat 26 intermediate of the end portion of the flange, the normal under side of the lid having a metallic lining 27 and side lining 28, the cleat being limited in length to permit water to flow past its ends. One shorter end portion of the flange has drain holes 29 therein to permit water to flow into the rinsing tank when the device is arranged as a drain board resting upon the partition 7 and suitably inclined, in which position the drain board is supported in a novel manner. Two pivot devices 30 and 30′ are secured to the end board 4, preferably on the outer side thereof, and two props 31 and 31′ are pivotally connected to them to be swung upward and support the drain board at an inclination upon the body part, each prop having a handle loop 32 whereby the cabinet may be pulled and guided.

For securing the drain board in place with its lower end upon the partition 7 an anchor base 33 is secured to the board in proximity to the end that has the drain holes 29 on the opposite side of the lid and it has pivot pins 34 to which a loop 35 is connected, the loop having fingers 36 to engage the lid and limit relatively pivotal movement, the loop having a projecting lug 37 to enter a bushing 38 secured in the upper portion of the partition 7 and prevent tilting of the drain board if overbalanced on the props by weight of dishes upon a higher portion of the drain board.

In order to care for the combined cover and drain board when not required for use the slab portion 24 is provided with eyes 39 and 39′ in proximity to the opposite ends thereof, and the outer side of the side board 2 is provided with hooks 40 and 40′ adjacent to the legs and to which the eyes may be connected to removably support the lid against the two legs that are on one side of the body part. To complete the conveniences a towel rack 41 is mounted on the outer side of the end board 5 of the cabinet on which wet towels may be hung conveniently to become dry.

In practical use one basket 23 is to be placed in the washing tank which is adjacent to the garbage compartment, the lid is hung on the side of the cabinet and the cabinet is moved to the dining-table from which the dishes are gathered. A suitable receptacle is to be placed in the garbage compartment together with a small mop and a scraper. All debris is removed from the plates and scraped into the garbage receptacle, the dishes being placed in the basket. The cabinet is to be moved into the kitchen where sterilizing hot water is poured into the washing tank and also into the adjacent rinsing tank, strong detergent solution being added to the water in the washing tank in which the dishes are permitted to remain until thoroughly cleansed of all foreign matter, particularly grease, after which the basket 23 is lifted out of the tank with the dishes therein and lowered into the adjacent rinsing tank, the dishes becoming sterilized because of the high temperature of the water. Another basket containing dishes may be placed in the washing tank and cleansed, and the basket in the rinsing tank may be alternately lifted and lowered to finally rinse the dishes therein and may immediately be lifted from the tank, after which the lid may be inverted and placed in position upon the body part to become a drain board as shown in Fig. 4 and on which a basket of rinsed dishes may be placed, or the dishes may be removed from the basket and separately placed upon the drain board to remain until they become dry, the drainage water flowing down into the rinsing tank. At will the dishes may be removed and their lower portions completely dried by means of a towel if needed. The tanks are emptied by simply opening the drain cocks 20 and 20′, and for sanitary purposes the garbage compartment is thoroughly cleansed by use of a solution which may be conveniently drained through the bushing 21 after removing the stopper 22 and finally through the stop cock 20. When it is desired to move the cabinet one may conveniently grasp the loop 35 to move the cabinet if more convenient to the operator, or when the operator is at the opposite end of the cabinet the latter may be readily moved by the loop 22 of the props, the lid being in position to cover the body part of the cabinet.

What is claimed as new is:

1. A dish-washing cabinet including a body part, and a separate portable lid having a drain-board-shaped under side and adapted to be removably arranged invertibly upon the body part and having a flange on its under side marginal portion, the flange normally encompassing the top of the body

part one portion of the flange having a drain-hole therein.

2. A dish-washing cabinet including an open-top hollow body part having a transverse vertical partition intermediately of opposite ends thereof, a separate portable lid having a drain-board-shaped under side and adapted to be removably placed invertibly upon the body part, said under side having a flange on its marginal portion to encompass the top of the body part, one portion of the flange having a drain-hole therein, a prop adjustably mounted on one of said opposite ends to support said lid at an inclination when inverted, and an adjustable anchor device to co-operate with the upper portion of said partition and also with the lower portion of the inverted lid in proximity to said drain-hole.

3. A movable carrying dish-washing cabinet comprising a body part, a separate portable lid adapted to be invertibly placed upon the body part, the lid being longer than the greatest length of the body part and having a flange on its marginal portion to encompass the top of the body part, one portion of the flange having a drain-opening therein, an anchor device to co-operate with the top of the lid in proximity to the drain-opening and having a lug to engage a portion of the body part when the lid is inverted thereon, and a prop hinged to one end of the body part and adjustable to support the inverted lid at an inclination.

4. A dish-washing cabinet comprising a body part, a lid removably arranged upon the body part and having a flange on its marginal portion, one portion of the flange having a drain-hole therein, an anchor device hinged to the top of the lid in proximity to the drain-hole and having a handle loop, the anchor device having a lug to engage a portion of the body part when the lid is inverted thereon, and two props hinged to one end of the body part to support the inverted lid at an inclination, each prop having a handle loop.

5. In a dish-washing cabinet, the combination of a body part having transverse partitions therein, one of the partitions having an aperture in the upper portion thereof, a drain-board to rest upon the partition and having an anchor device connected thereto to be inserted into the aperture, and a prop co-operating with the body part to support the drain-board at an inclination thereto.

6. In a dish-washing cabinet, the combination of an open-top oblong body part having a transverse partition therein, a drain-cock connected to the bottom of said body part, a lid removably seated upon the top edges of the body part and said partition and having a waterproofed under side and also a flange on its margin normally encompassing the body part, the lid being invertible to constitute a drain-board upon the body part to conduct water into the body part adjacent to one side of said partition, one portion of said flange having a drain-hole therein, a prop co-operating with one end of the body part to support the lid when inverted in inclined position with its lower end over said partition, and an anchoring device to co-operate with a portion of the partition and the lower portion of the lid.

In testimony whereof, we affix our signatures on the 30th day of September, 1927.

ROBERT H. RHOADES.
EMILY G. RHOADES.