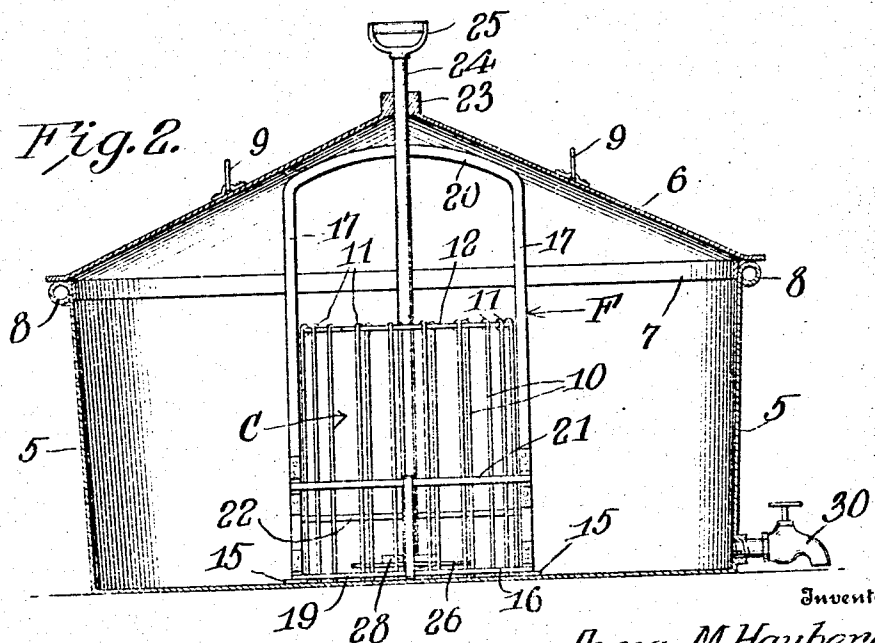
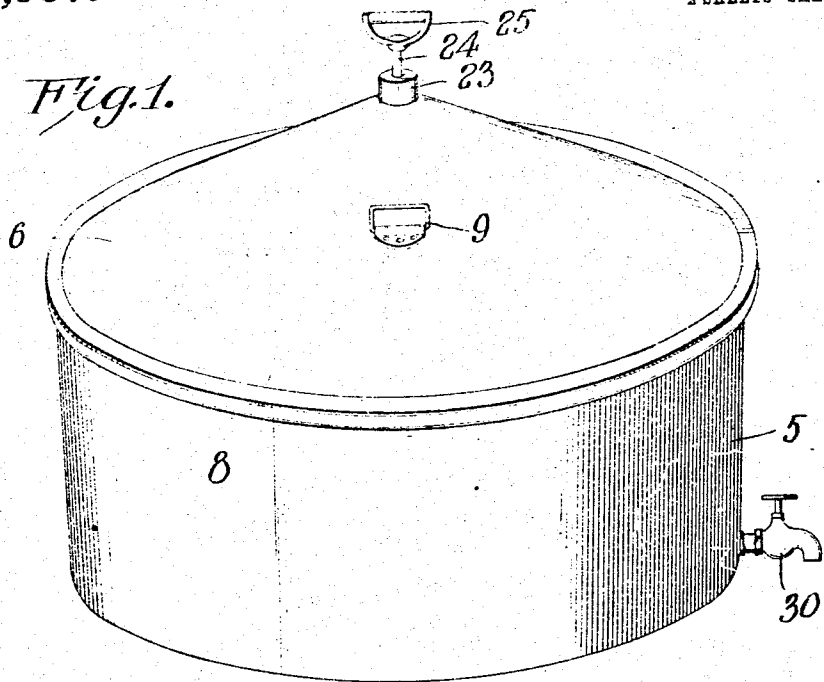


A. M. HAUBERG.
DISH WASHING MACHINE.
APPLICATION FILED MAR. 2, 1908.

Patented Oct. 26, 1909.
2 SHEETS-SHEET 1.

937,937.



Inventor

Anna M. Hauberg,

Witnesses

C. C. Smith,

Fenton B. Bell

By

Wm. Baggett & Co.

Attorneys

A. M. HAUBERG.
DISH WASHING MACHINE.
APPLICATION FILED MAR. 2, 1908.

937,937.

Patented Oct. 25, 1909.
2 SHEETS—SHEET 2.

Fig. 3.

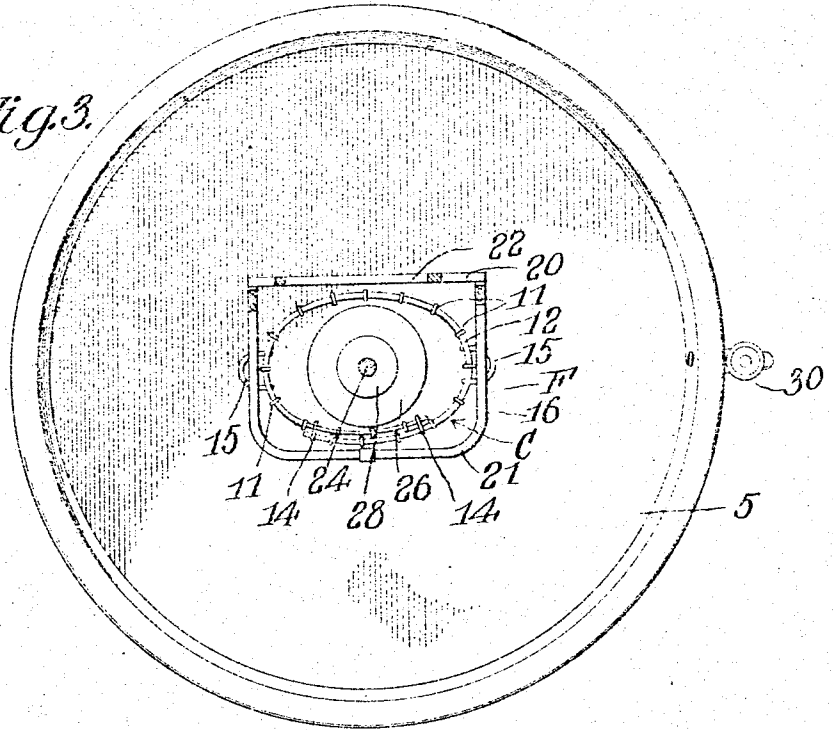


Fig. 4.

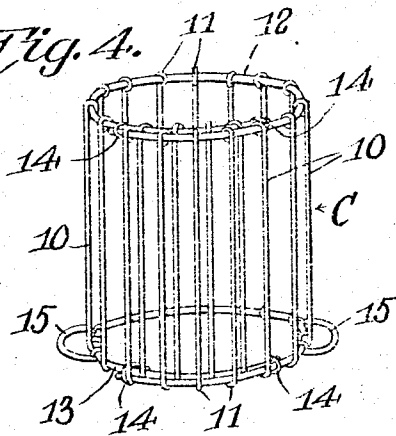


Fig. 5.

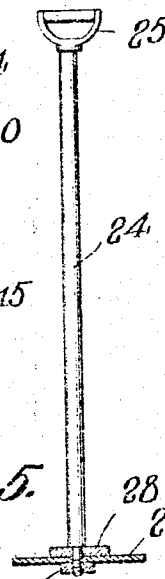
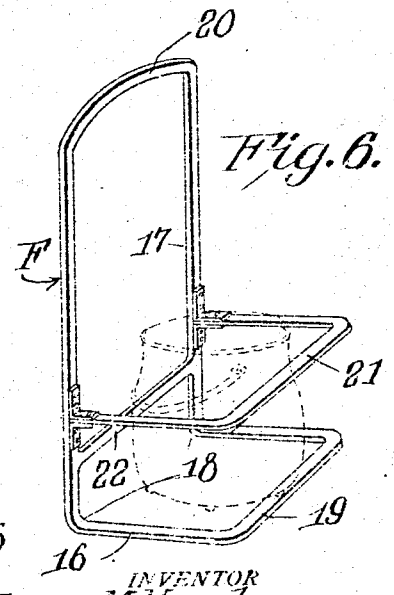


Fig. 6.



WITNESSES

C. E. Smith.
Gordon St. Bell

INVENTOR

Anna M. Hauberg,
By Wm. Bagger & Co. Attorneys

UNITED STATES PATENT OFFICE.

ANNA M. HAUBERG, OF HILLSDALE, ILLINOIS.

DISH-WASHING MACHINE.

937,937.

Specification of Letters Patent.

Patented Oct. 26, 1909.

Application filed March 2, 1908. Serial No. 418,715.

To all whom it may concern:

Be it known that I, ANNA M. HAUBERG, a citizen of the United States, residing at Hillsdale, in the county of Rock Island and State of Illinois, have invented certain new and useful Improvements in Dish-Washing Machines, of which the following is a specification.

This invention relates to dishwashing machines, and it has for its objects to simplify and improve the construction and operation of this class of devices, and to present a simple and efficient machine by the use of which dishes, pots, kettles and the like may be thoroughly and expeditiously washed and cleansed, and with a minimum expense of time and labor.

With these and other ends in view, which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of the invention; it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the invention may be resorted to, when desired.

In the drawings:—Figure 1— is a perspective view, showing the outside of the improved dishwasher. Fig. 2— is a vertical sectional view of the same. Fig. 3— is a top plan view of the machine, with the lid or cover removed. Fig. 4— is a perspective detail view showing the cage, detached. Fig. 5— is a detail side view, partly in section, of the dasher used in connection with the invention. Fig. 6— is a perspective detail view, showing the kettle rest or holder, detached.

Corresponding parts in the several figures are denoted by like characters of reference.

The body of the improved dishwasher consists of a tank or vessel, 5, which may be of any suitable shape and of any desired dimensions. In the drawings has been shown a vessel or boiler of circular shape, slightly tapering in a downward direction, and equipped with a removable lid or cover, 6, of conical shape, having a downward-extending rim or flange, 7, that fits within the upper end of the vessel, which latter is pro-

vided at its upper edge with a cover-supporting bead, 8. The lid or cover is equipped with handles, 9, 9, whereby it may be conveniently manipulated.

C designates a cage which may be advantageously constructed of suitably spaced rods or wires, 10, 10, the upper and lower extremities of which are provided with eyes, 11, whereby they are adjusted or mounted upon the connecting hoops or bands, 12, 13, each of which has free ends that are connected together by means of links or clasps, 14, of any suitable construction, thus enabling the diameter of the cage to be varied and adjusted at will; it will also be evident that by properly manipulating the hoops or bands, the cage may be given a circular or an oval or elliptical shape, or any other shape that may be deemed appropriate and expedient. The lowermost hoop, 13, is provided with laterally extending hoops or projectors, 15, which are preferably disposed in such a manner that they will normally project approximately in diametrically opposite directions; in order that this relative position may be maintained when the diameter of the cage is varied, the said loops may be slidably or otherwise adjustably connected with the hoop, or they may be detached from the latter and replaced in proper position when it is considered desirable or necessary to change the shape or dimensions of the cage.

F designates a frame, which may be appropriately called a "kettle rest" or "kettle-holder", an important function of said frame being to hold and sustain pots and kettles while being operated upon; said frame, however, has another important function in sustaining in position the cage C when the device is in operation. This frame, which may be suitably constructed of metal strips or rods, includes a substantially horizontal bottom portion, 16, and a substantially vertical upright portion, 17, the said portions being formed by bending the side members of the frame approximately at right angles, as shown at 18; the extremities of the horizontal portions of the side-members are connected by an end-piece, 19, and the upper ends of the vertical portions of the side members are connected by a curved or arched end-piece or cross-bar, 20, which is adapted to lie closely against the under side of the lid or cover 6, when the latter is in position. Suitably secured

upon the side members of the frame, some distance above the horizontal bottom portion of the latter, is a laterally-extending approximately U-shaped auxiliary frame portion, 21, which actually constitutes a portion of the frame F, and which is of a size and shape corresponding to the horizontal bottom portion of said frame, with relation to which it is approximately parallel. A cross bar or brace, 22, connects the side-members of the frame intermediate the bottom portion and the laterally extending frame portion 21.

At the apex of the conical lid or cover 6 is disposed a boss or collar, 23, affording a bearing for a vertically movable dasher rod or shaft, 24, having at its upper end a handle, 25, and at its lower end a plunger-disk, 26, which is secured upon the reduced and screw-threaded lower end of the rod or shaft by means of a nut, 27, it being reinforced by a plate or stiffening member, 28. The plunger-disk of the dasher is adapted to operate within the cage C, when the latter is in position in the tank or vessel, but the cage may be dispensed with when pots or kettles are to be cleansed.

In operation, when dishes are to be washed, the cage C is supported upon the bottom of the tank or vessel, said cage having been previously adjusted to the desired shape and dimensions; and the frame F is then placed in position in such a manner that the horizontal bottom portion of said frame will engage the laterally extending lugs or loops 15, while the upright portion of the cage is confined between the horizontal frame portion 21 and the cross-bar or brace 22, although obviously spaced from said frame portion and brace in the event of the diameter of the cage having been reduced, and the cage C will thus be retained in position by the frame F, which latter, in its turn, is held in position by the lid or cover of the vessel. It may here be appropriately stated that the reason for making the cage adjustable with regard to its cross sectional shape and area, is to space the vertical bars constituting the side walls of said cage more or less from the inner walls of the tank, thus permitting a greater or less quantity of dishes to be piled or stacked in the tank to be operated upon and also to provide suitable accommodation for dishes of varying shape and dimensions. It will furthermore be observed that while in Fig. 3 of the drawings, the cage has been shown extended almost to its limit within the holding frame, the dimensions of the various parts illustrated in the drawings do not by any means need to be adhered to; a holding frame of much greater capacity may be used, if so preferred, and the adjustment

of the cage is by no means restricted inasmuch as the rings or clasps 14 serving to connect the ends of the top and bottom hoops of the cage may, if desired, be detached to admit of the adjustment of the cage to any extent within the limits of its dimensions. It is furthermore obvious that the laterally extending members 15 connected with the bottom hoop may be made as much larger or smaller as may be desired to insure the perfect operation of the device in the manner described, and it is furthermore to be noted that said laterally extending members are to be made capable of adjustment, as herebefore specifically stated, to enable them to be placed approximately at diametrical opposite sides of the bottom, thus insuring the most perfect and successful operation of the device. The dishes that are to be washed are stacked between the inner walls of the tank and the outer walls of the cage, and water or suds of the desired temperature is added before placing the lid in position. By operating the dasher, the water or suds will be forcibly and violently agitated and will be forced through the interstices between the dishes, loosening and detaching the adhering grease and dirt, and leaving the dishes clean and in a wholesome and sanitary condition. This foul water may be drained off through a cock or faucet provided for the purpose, as shown at 30, and the dishes may be rinsed with clean hot water prior to removal from the tank.

Pots, kettles and other cooking vessels may be supported directly upon the frame F, constituting the kettle-rest, as indicated in dotted lines in Fig. 6 of the drawings, while being operated upon, the cage C being meanwhile dispensed with.

The improved dish washer herein described is simple, inexpensive, and thoroughly efficient for the purposes for which it is provided.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States:—

In a dish-washing machine of the character described a cage structure adapted to be placed within a tank constituting the casing of the device; said cage being adjustable to various shapes and dimensions in cross sectional area according to the shape and nature of the dishes to be interposed between said cage and the walls of the tank, and a dasher working within the cage.

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

ANNA M. HAUBERG.

Witnesses:

LOUIS D. HAUBERG.
EDWARD H. LYFORD.