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DISHWASHING MACHINE

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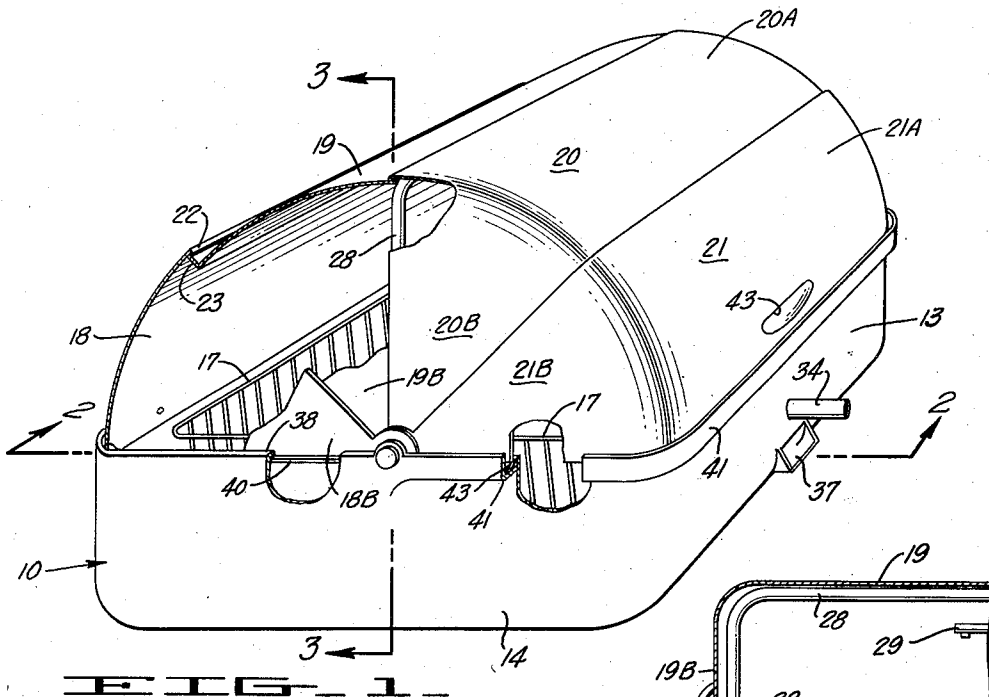


FIG. 1

FIG. 3

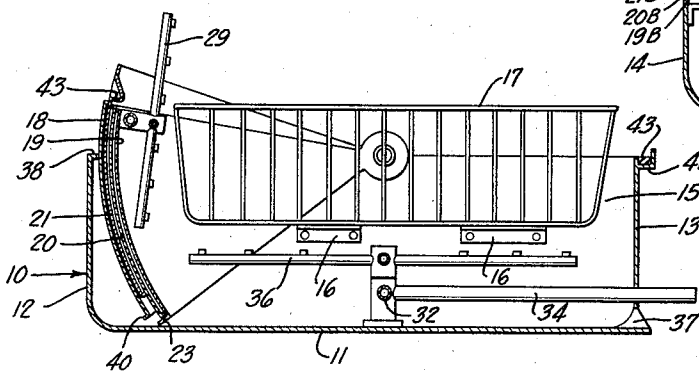
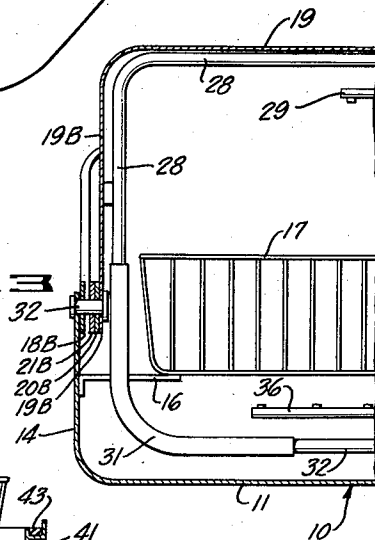


FIG. 2

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## DISHWASHING MACHINE

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3 Claims. (Cl. 134—177)

This invention relates to an improvement in dishwashing machines and is particularly directed to a water pressure dishwasher having a collapsible hood made of a plurality of rigid sections of plastic, metal or the like, and is a continuation-in-part of my patent application Serial No. 525,564, filed August 1, 1955, Patent No. 2,771,895, dated November 27, 1956.

In my co-pending patent application, I have described a portable dishwashing machine having a collapsible hood of flexible material, said hood folding into a small volume when not in use. The present invention is directed to an improvement in said device wherein the hood is made of a series of segments of thin metal, plastic or other material and wherein the segments telescope so that the device occupies a minimum amount of space for storage and also provides a large open area for loading and unloading the dishwasher, as well as unobstructed circulation for air drying.

In the drawings forming a part of this application:

Figure 1 is a perspective view, partly in section, of the improved dishwasher of the present invention.

Figure 2 is a sectional view generally on the lines 2—2 of Figure 1, showing the top in a collapsed position.

Figure 3 is a partial sectional view on the lines 3—3 of Figure 1.

Referring now to the drawings by reference characters, there is shown a water pressure dishwasher having a main base pan generally designated 10, having a bottom 11, integral sides 12 and 13, and integral ends 14 and 15. Suitable raised support brackets 16 fixed to the inside faces of the sides 12 and 13 carry the dish holding basket 17 in which are placed the dishes to be washed.

A top cover for the pan 10 is formed by a series of four segments, designated 18, 19, 20 and 21. Each of said segments has a curved central portion as at 20A and 21A, and two end segments, designated 18B, 19B, 20B and 21B. Each of the segments constitutes about 45° of a circle so that the four segments together form a semi-circular cover over the top of the pan 10. The four segments are journaled for rotation at the pan ends 14 and 15 by means of rivets 32. The segments are made in slightly different sizes so that they can telescope one over the other. Thus, the segment 18 is the largest, segment 21 the next largest, segment 20 the next largest and the segment 19 the smallest so that they can overlap each other, as is shown in Figure 2. Each of the segments has a lip thereon mating with a lip on the next adjacent section so that a watertight seal is provided between the adjacent sections when the cover is in closed position. For instance, the segment 18 has a downturned lip 22, which meshes on upturned lip 23 of segment 19. Attached to the segment 19 is also a water supply pipe 28, which leads to the upper rotating spray device 29, which is fastened adjacent one edge of segment 19, as is shown. The pipe 28 is fastened to the water supply pipe 32 with a flexible hose 31 so that the pipe 28 is in fluid communication with the pipe 32. In addition, the pipe 32 is attached to the pipe 34 which

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in turn supplies water to the lower rotating spray device 36. It will be understood that the sprays 29 and 36 are caused to rotate by the reaction of water.

The upper edge of the pan 14 has an inturned lip 38 while the segment 18 has an out-turned lip 40, so that when the cover is in the closed position, this edge of the pan is substantially sealed. In addition, the portion of the ends 12 and 13 extending from the side 14 to the supply pipe, may have a similar in-turned lip and the segment designated 18B may have an out-turned lip to produce a water seal at these edges. The edge 13 of the pan is provided with a recess 41 having a gasket 43 and this recess and gasket preferably extend around the ends 14 and 15 to the center of the pan so that the segment 21 forms a tight seal. In addition, segment 21 may be provided with a suitable handle 43.

To load the device, the covers are opened, as is shown in Figure 2, and dishes are inserted in the basket 17. The cover is then closed, as is shown in Figure 1, and water pressure is applied to the pipe 34 which sends sprays through the spray devices 29 and 36 to wash the dishes. It is apparent that as the cover is closed, each of the four segments will be drawn into position, and that the upper spray device 29 will be positioned directly over the dishes. A suitable drain spout 37 is provided so that water may drain from the pan 10 into a sink or similar receptacle. After the washing operation is complete, the water is turned off and the cover opened, whereupon the dishes may be allowed to drain and dry in place.

It is obvious that only a preferred embodiment of my invention has been described and that many departures may be made from the specific device described without departing from the spirit of my invention. For instance, a hood has been described as being made from four segments; a smaller or larger number of segments may be employed, although it is preferred to use four segments.

It is believed obvious from the foregoing that I have provided a highly effective table top dishwashing machine with a segmented cover which may be easily collapsed for storage and access to the dishes.

I claim:

1. A dishwashing machine including a base pan, a semi-circular cover mounted on said pan, said cover comprising a plurality of rigid interlocking sections, each of which is a segment of a cylinder and a water spray carried by one of said sections.

2. The device of claim 1 wherein the sections have interlocking lips whereby the sections form a watertight structure and wherein the lips serve to advance the several sections when one section is advanced.

3. A dishwashing machine including a base pan, a dish tray carried within said base pan, a semi-circular top for said base pan, said top comprising four sections, each of which is a segment of a cylinder journaled for rotation on the top of the base pan, one of said sections, carrying a top spray device, a bottom spray device near the bottom of the base pan, and water connections to said spray devices.

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