Sept. 2, 1958 W. BOND 2,850,025

DISHWASHING MACHINE

Filed Feb. 3, 1956

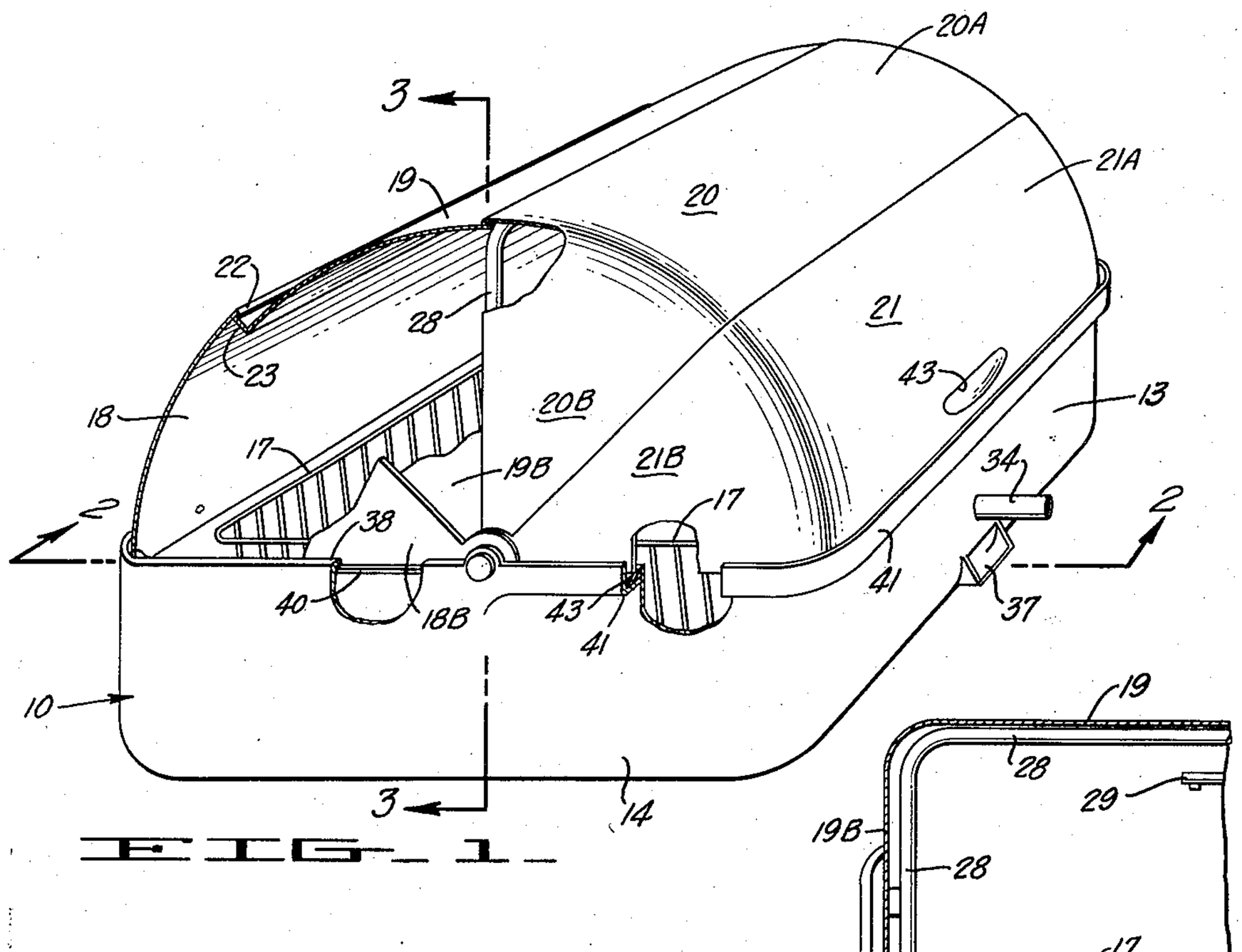

FIG. 1

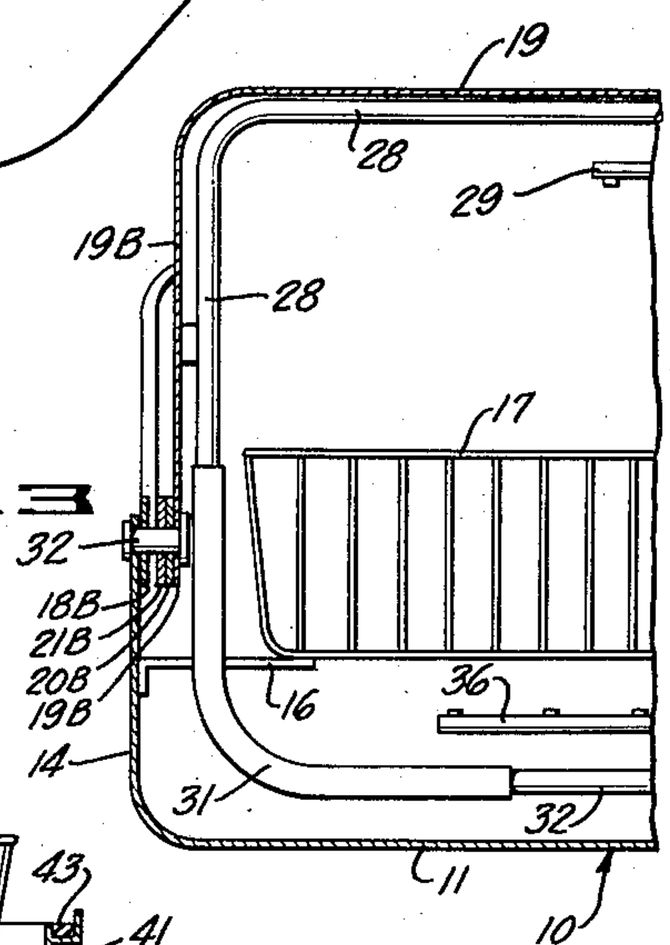

FIG. 3

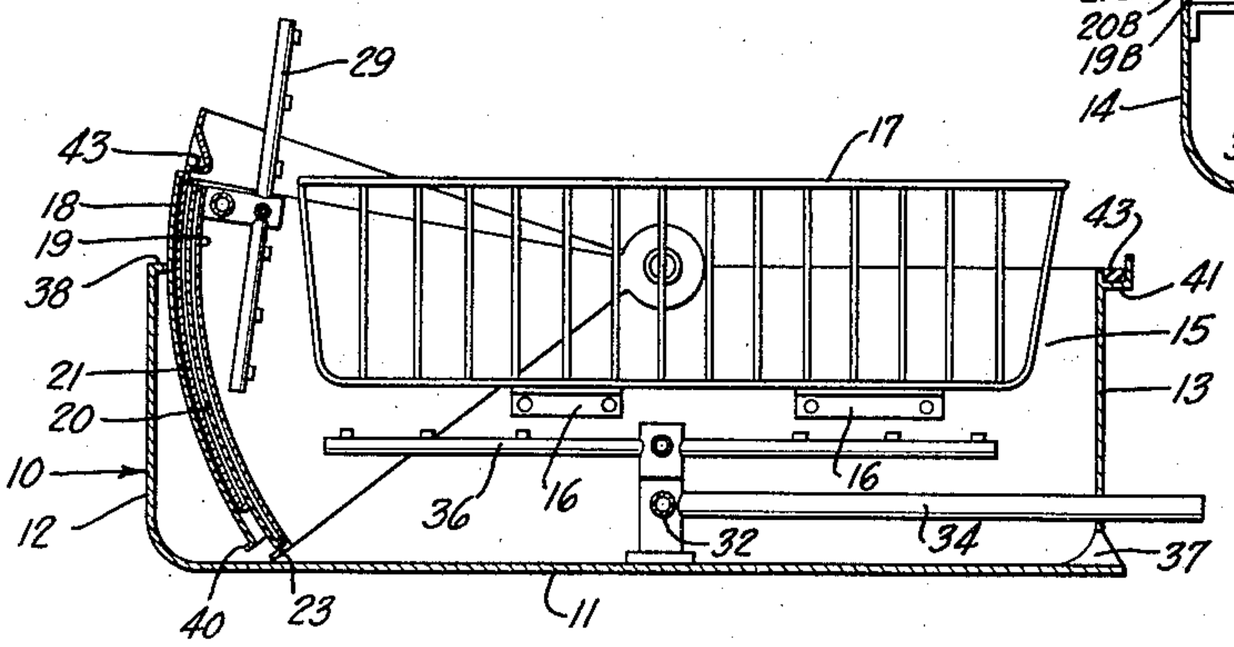

FIG. 2

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United States Patent Office

2,850,025

Patented Sept. 2, 1958

2,850,025

DISHWASHING MACHINE

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Application February 3, 1956, Serial No. 563,379

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 overlie 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 down-turned 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

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 of 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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