Nov. 20, 1951 E. W. N. BOOSEY 2,575,905

WASTE FLOW CONTROL

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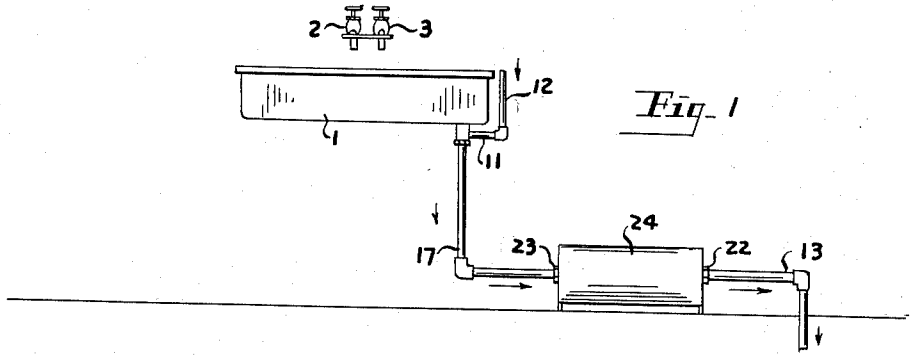


Fig. 1

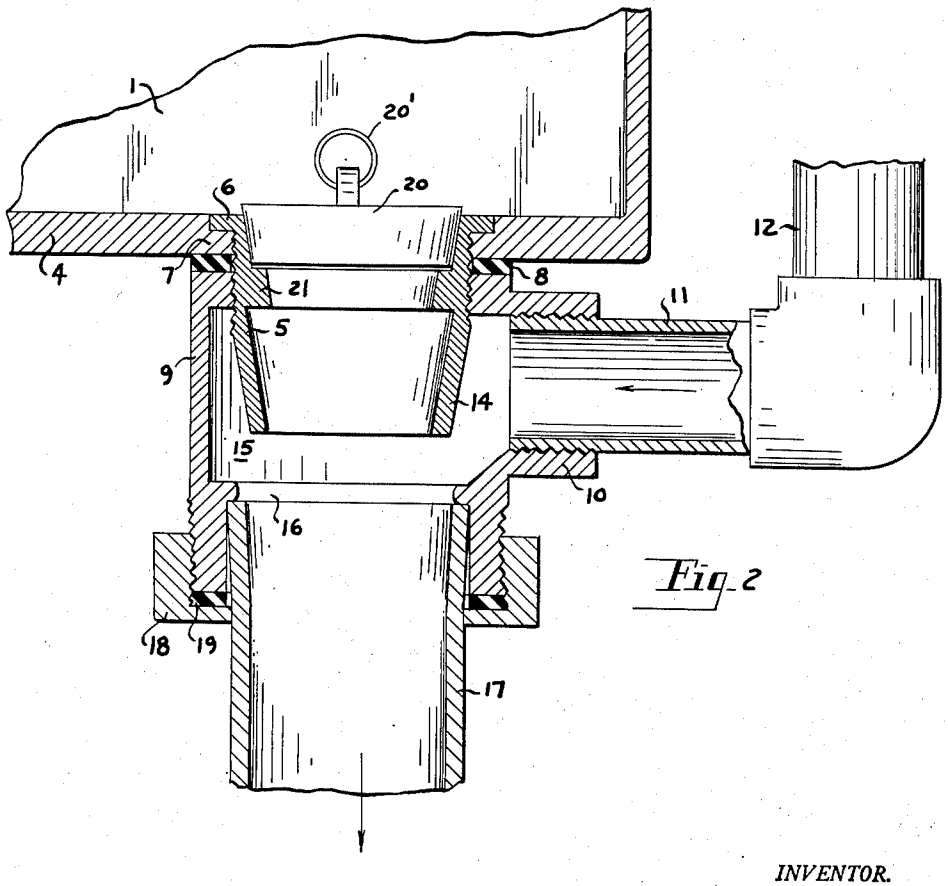


Fig. 2

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WASTE FLOW CONTROL

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2 Claims. (Cl. 4—211)

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This invention relates to a waste flow control the object being to provide a control of flow of refuse liquid in gallons per minute from a container to an outlet conduit.

These and other objects and features of the invention are hereinafter more fully described and claimed and a waste flow control embodying my invention is shown in the accompanying drawing in which—

Fig. 1 is an elevation showing the apparatus in conjunction with a sink.

Fig. 2 is an enlarged cross section of the apparatus.

The apparatus is shown in Fig. 1 in conjunction with a sink 1 above which is the usual hot and cold water faucets 2 and 3. The bottom wall of the sink has a circular aperture including an inwardly extending threaded flange and the upper surface of the bottom wall 4 of the sink 1 has a threaded aperture to receive an externally threaded outlet fixture 5 which has a peripheral flange 6 at its upper end engaging a recess provided therefor in the upper face of the bottom wall 4 of the sink. The fixture 5 is externally threaded for a portion of its length to engage the threaded face of the flange 7 of the top wall of casing member 9 and a packing ring 8 is provided between the upper face of the chambered member 9 and the bottom wall 4 of the sink. The body 9 has a threaded inlet 10 on one side to receive a vent pipe 11. This pipe has a vertical portion 12 the open upper end of which terminates preferably at about the upper surface of the flange of the sink 1.

The vent pipe 11 leads to a waste conduit 17 and in the conduit is a well known separator 24 adapted to prevent grease and other deleterious matter from entering the drain line 13 when the flow rating in gallons per minute does not exceed the flow rating of the separator.

The outlet end 14 of the fixture 5 extends into the chamber 15 of the member 9 and the lower end of the member 9 is externally threaded and an internal rib 16 seats on the upper end of the waste conduit 17. A flanged cap 18 is threaded on the threaded end of the member 9 and a packing ring 19 is positioned between the cap 18 and the threaded end of the member 9 and a removable plug 20 seats on a flange 21 of the outlet fixture 5. The plug 20 has a ring 20' to permit ready removal thereof.

The upper end of the vertical portion 12 of the vent pipe is open to atmosphere and terminates at about the level of the upper surface of the sink 1. Air is thus drawn into the chamber 15

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and discharges with the liquid to the waste conduit 17. This arrangement prevents less than atmospheric pressure in the outlet fixture and chamber leading to the waste conduit.

It will be observed from the foregoing that liquid in the sink 1 may flow through the outlet fixture 5 on removal of the plug 20 and the liquid discharges into the waste conduit 17 open to the air by means of the vent pipe 12 and any grease or non-liquid matter is retained in the separator 24.

When the flow of liquid is materially restricted, due to the retained material in the member 24, the separator may be removed, cleaned and replaced and secured in position by means of the nuts 22 and 23 on opposite ends of the separator. While not so shown these nuts may be provided with a packing means between the respective ends of the separator and the respective nuts. The diameter of the outlet end 14 of fixture 5 determines the gallons of flow of liquid per minute. The air inlet 12 prevents syphonage at the waste outlet orifice.

It is believed obvious from the foregoing description taken in conjunction with the drawing that the various objects of the invention are attained by the structural character and relationship of parts.

Having thus briefly described my invention, its utility and mode of operation, what I claim and desire to secure by Letters Patent of the United States is:

1. A waste flow control for a sink having an outlet comprising an outlet fixture secured within said outlet and depending from said sink, a chambered member surrounding the depending end of said fixture and secured thereto, said member having a lateral inlet opening and an outlet opening in its bottom wall, an air vent pipe joined to said member at its inlet opening, a waste conduit with its upper end projecting up into the outlet opening of said chambered member, the portion of said member adjacent said outlet being exteriorly threaded, and an interiorly threaded apertured cap fitted over said waste conduit and threadably joined to the exteriorly threaded portion of said chambered member.

2. A waste flow control for a sink having an outlet comprising an outlet fixture secured within said outlet and depending from said sink, a chambered member surrounding the depending end of said fixture and secured thereto, said chambered member having a lateral inlet opening and an outlet opening in its bottom wall, said outlet fixture extending to the bottom of said inlet opening, an air vent pipe joined to said cham-

bered member at its inlet opening, and a waste conduit projecting up into the outlet opening of said chambered member and joined at its upper end to said chambered member.

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