March 5, 1929. F. G. BROTZ 1,704,529

WASTE FITTING ASSEMBLY

Filed Aug. 1, 1927

FIG. 1.

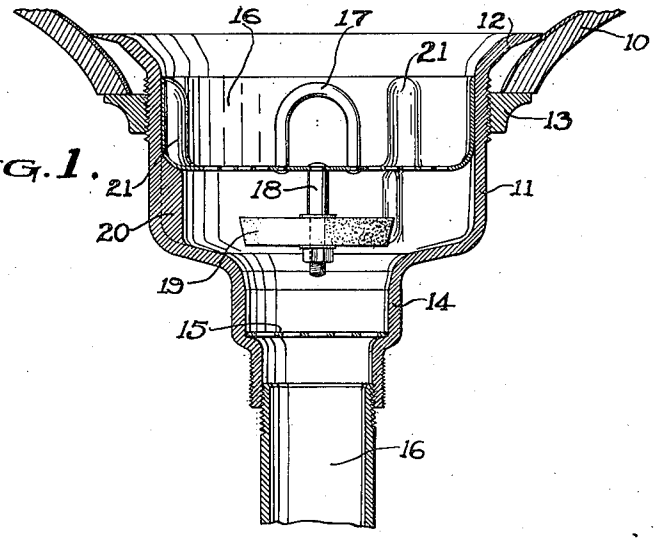


FIG. 2.

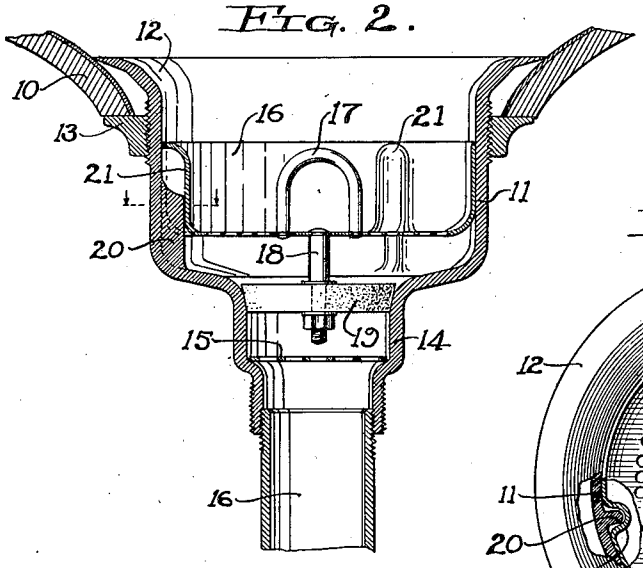
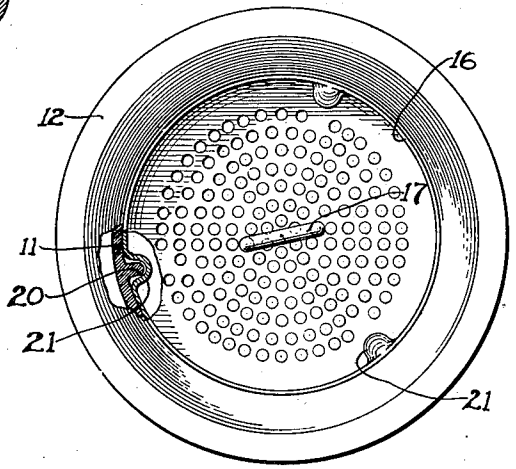


FIG. 3.



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UNITED STATES PATENT OFFICE.

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WASTE-FITTING ASSEMBLY.

Application filed August 1, 1927. Serial No. 209,831.

This invention relates to a waste fitting assembly for sinks and the like particularly for the dishwashing compartment of combination sinks and dishwashers.

An object of the invention is to provide a waste fitting with a removable strainer cup having attached thereto a plug for closing the drain and means for holding the strainer cup in a raised position with the plug off of its seat so that the drain is open.

With the above and other objects in view the invention consists in the waste fitting assembly as herein claimed, its parts and combinations of parts and all equivalents.

Referring to the accompanying drawings in which like characters of reference indicate the same parts in different views,

Fig. 1 is a sectional view of a waste fitting assembly showing the strainer cup supported in the open position of the plug;

Fig. 2 is a similar view of the parts in their closed position; and

Fig. 3 is a plan view with a portion broken away.

In these drawings 10 indicates a flaring drain opening in a sink bottom or the like, or particularly in the bottom of a sink used as a dishwasher either in the form of a dishwashing machine or otherwise.

The waste fitting for the drain opening comprises a funnel-shaped coupling member 11 having an outwardly extending feathered flange 12 drawn into close fitting contact with the enamelled surface of the sink bottom by a clamping nut 13.

The main body portion of the coupling member 11 is cylindrical and of large diameter while coaxial with it is a smaller strainer outlet compartment 14 also cylindrical and terminating in a shoulder on which a strainer plate 15 rests, the tail piece or drain pipe 16 having suitable connection with the strainer outlet beyond the shoulder.

Within the cylindrical large diameter main portion of the coupling member 11 is slidably fitted a removable strainer cup or portable basket 16 having a handle 17 by which it may be moved. This strainer cup 16 has a stem 18 fixed to it and projecting downwardly therefrom carrying a rubber waste plug 19 to fit a seat formed for it at the upper end of the reduced chamber 14 to effectively prevent the discharge of water from the sink when in its closed position, as shown in Fig. 2. Within the strainer cup chamber of the coupling member 11 are three or more or any desired number of projections 20 and the strainer cup 16 is provided with recesses 21 to fit on said projections in order to permit the plug to be seated.

When the cup is raised and turned with its recesses out of alignment with the projections it rests on the projections and is held thereby in its raised position with the plug 19 well above its seat and consequently with the drain open permitting the water to freely flow thereby, as shown in Fig. 1. As the cup in its raised position fits the coupling, any particles of food matter or other solids will be caught and held in it as the water passes and by removing the cup such material may be readily disposed of. Any solid matter passing the strainer cup will be retained by the plate strainer 15 without entering the waste pipe and may be removed with the plate.

Whenever it is desired to prevent the discharge of water, it is only necessary to turn the handle 17 until the strainer cup recesses are in register with the projections, when the strainer cup falls to its lower position seating the plug 19, the pressure of the water on which will effectively seal it.

What I claim as new and desire to secure by Letters Patent is:

1. In a waste fitting for sinks and the like, a waste coupling, a freely removable strainer basket having different positions in the waste coupling, and a plug rigidly fixed on the strainer basket seated within and closing the waste coupling in the lower position of the strainer basket and removed from its seat in the upper position of the strainer basket.

2. A waste fitting for sinks and the like, comprising a drain coupling having a cylindrical cup-shaped body portion with a reduced outlet portion, a cup-shaped strainer removably fitting in the cup-shaped portion of the drain coupling, projections on the side walls of the cup-shaped portion of the drain coupling, there being recesses in the edge of the strainer cup to receive said projections in a lower position of the cup and said cup resting on said projections in an upper position thereof, and a plug carried by the strainer cup fitting within and closing the drain outlet in the lower position of the strainer cup.

3. In a waste fitting assembly, a flaring cup-shaped drain coupling having a reduced outlet, a nut threaded on the coupling for

clamping it to the outlet opening of the sink or the like, a cup-shaped strainer fitting within the coupling, a handle thereon by which it may be lifted and turned, projections on the walls of the coupling, there being recesses in the edges of the strainer cup to fit said projections, a stem secured to the bottom of the strainer cup, and a plug mounted thereon seated in the outlet of the drain coupling when the strainer cup is in a lower position with its recesses fitting the projections.

4. A waste fitting assembly, comprising a flaring cup-shaped waste coupling having a reduced shouldered outlet, a cup-shaped strainer within the coupling and slidably and rotatably fitting cylindrical walls thereof, a handle within the strainer for raising and lowering and turning it, projections on said walls of the coupling for supporting the strainer in a raised position, there being recesses in the edge of the strainer to fit on said projections and permitting of its being moved to a lower position, a stem secured to the bottom of the strainer, a plug on the stem seated in the reduced outlet of the coupling in the lower position of the strainer, and a removable strainer plate on the shoulder of the reduced outlet of the coupling beneath the plug.

5. A waste fitting for sinks and the like comprising a drain coupling, a seat formed therein, a cup-shaped strainer basket removably fitting in the drain coupling, a plug fixed on the bottom of the strainer basket and fitting on the seat, and engaging members on the strainer basket and the drain connection for supporting the strainer basket in a position with the plug removed from the seat.

In testimony whereof, I affix my signature.

FRANK G. BROTZ.