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H. E. BARGER

REMOVABLE AUXILIARY STRAINER FOR KITCHEN SINKS

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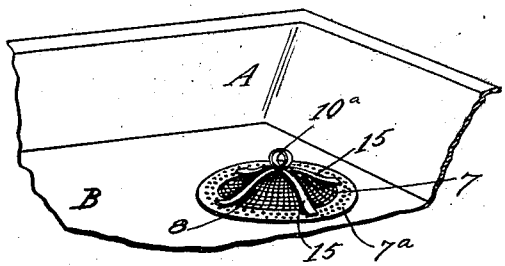


Fig. 1.

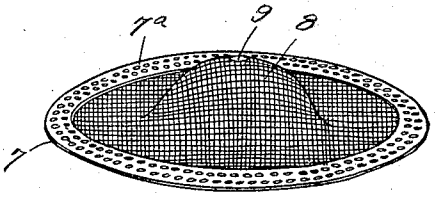


Fig. 3.

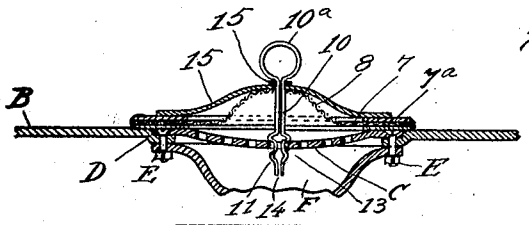


Fig. 2.

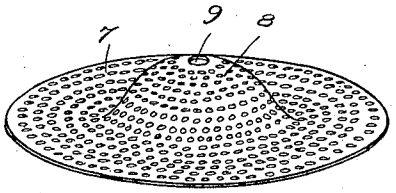


Fig. 4.

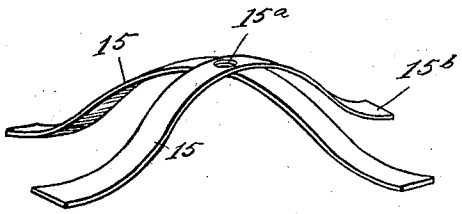


Fig. 5.

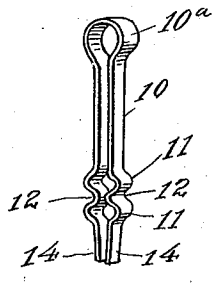


Fig. 6.

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UNITED STATES PATENT OFFICE.

HARRIET E. BARGER, OF NORWOOD, OHIO.

REMOVABLE AUXILIARY STRAINER FOR KITCHEN SINKS.

Application filed December 11, 1922. Serial No. 606,206.

To all whom it may concern:

Be it known that I, HARRIET E. BARGER, a citizen of the United States of America, and a resident of Norwood, in the county of Hamilton and State of Ohio, have invented a certain new and useful Improvement in Removable Auxiliary Strainers for Kitchen Sinks, of which the following is a specification.

This invention relates to auxiliary-strainer devices for use in a handy portable manner in connection with the customary stationary or permanent perforated drain-pipe disks or plates of kitchen-sinks in detaining and collecting the solid refuse or sediment from dish-water and readily, as well as cleanly, handling it into the refuse or cast-off receiver, and to avoid the necessity of directly wiping off the said stationary drain-pipe disks or plates with the fingers after washing the dishes and emptying the used dish-water into the sink and while containing said refuse which has heretofore fouled or clogged the drain-pipe and the traps below and rendering them unsanitary and otherwise unfit for drainage purposes or other use.

The specific structure of the invention herein will be fully described in detail in connection with the accompanying sheet of drawings, in which—

Figure 1 is a fragmentary perspective view of one inside-corner of an ordinary kitchen-sink, showing my auxiliary portable strainer in working-place therein; Fig. 2, a cross-section of the parts seen in Fig. 1, but on a slightly larger scale and omitting the upright corner walls of the sink; Fig. 3, a detail perspective view of the central or main body-portion of the auxiliary-strainer, showing it as being made of wire-gauze and provided with a perforated sheet-metal resting-border and omitting its anchoring and presser members; Fig. 4, a detail perspective view, similar to Fig. 3, but showing the said main body-portion as being made entirely of sheet-metal, and otherwise omitting its anchoring and presser members; Fig. 5, a detail perspective view of the preferred form of crossed, arched bow-springs used in the making of the said presser-member; and Fig. 6, a detail perspective view of the peculiar resilient or snap form of locking and handling stem used in removably attaching the auxiliary-strainer herein in working-position in connection with the usual stationary drain-pipe strainer disk or plate of a kitchen-sink, such as is shown in assembled-condition in Fig. 2, for use.

A indicates an inner-face corner of an ordinary kitchen-sink; the letter B indicating the bottom thereof; the letter C indicating the usual ordinary stationary or permanent strainer disk or plate mounted in the countersunk orifice D of the sink-bottom B, wherein it is fastened by screw-bolts E in the mouth of the customary drain-pipe F, all as best shown in Figs. 1 and 2, but more especially in Fig. 2.

7 indicates an auxiliary strainer-member, made of either wire mesh or gauze (as in Fig. 3), or perforated sheet-metal (as in Fig. 4), and having a domed center 8 that is supplied with a central opening or orifice 9 for the downward-passage of the shank 10 of a resilient double-limbed or forked anchoring-device whose lower portion is fluted or corrugated at 11 to form seats 12 at opposite sides for outward-pressure clamping-engagement with the middle hole 13 of the said permanent or stationary sink strainer disk or plate C, the connecting-action of said forked shank being best shown in Fig. 2. The upper end of the said shank 10 is made bow-shape to provide a suitable handle 10^a for its manipulation to and from position in the auxiliary strainer-member and sink-strainer disk below. The extreme lower ends 14 of the anchor-shank 10 are slightly tapered for facilitating their insertion in the middle hole 13 of the strainer-disk C and the resiliency of the forked limbs of the shank causes its fluted seat-portions 12 to snap or spread out automatically into stop-engagement with the edge or side-wall of the said hole 13 for preventing any accidental shifting or withdrawal of my auxiliary strainer device herein from proper operating-place in the sink.

The mesh or gauze form of auxiliary strainer-member 7 has a flat metal border 7^a, as best seen in Figs. 1 and 3, and minute perforations are made in said border for use in draining off any fluid or liquid matter along the periphery of the main gauze-portion 7. Besides, this border forms a reinforce or strengthening frame for the light wire gauze and a proper resting-surface on the peripheral part of the lower perforated disk-member C, and, more especially, when

the resilient presser clamping-arms 15, 15, that have alined central orifices or holes 15^a (for the snap-fastener shank 10) are used in connection with the said anchoring-shank 10 in properly sustaining or holding the auxiliary-strainer device of mine herein in attached working-position, ready for quick and effective removal from such position and to be handled from the sink, whence the collections of refuse-matter on its face can be easily transferred by inversion or brushing off into the sullage-receptacle, or otherwise. The said clamping presser-arms 15, 15, are bowed upwardly, dome-fashion, and may be made of resilient plate or wire metal, as desired, and with their outer ends flared or flattened at 15^b so as to press downwardly in contact with the border or peripheral-edging 7^a of the auxiliary strainer-member 7 and thereby make or assure a close surface contact or joint with the peripheral edge of the stationary disk C, or upon the upper face of the sink bottom B and not permit any oozing or escape of the refuse or foul particles into the drain-pipe below while my device is in working-position during the washing of the dishes and utensils, and while emptying the used dish-water into the sink after the work is finished, or at any time during the work. The drainage of the water itself through my auxiliary-strainer device, with its dome-center, is not interfered with or hampered in the least, and the foreign particles remaining are very conveniently and easily removed therefrom into the garbage-receptacle or elsewhere, as desired, after each washing of the dishes and other utensils, including silverware, cutlery, cooking and eating devices common to the work, subsequent to their use.

The crossed resilient presser-arms 15, 15, form substantial braces or supports and open-barred reinforces for the auxiliary-strainer member 7, especially when made of wire-gauze, to prevent its being crushed or otherwise broken down or injured by the weight or shifting of the dish-pan in the event the latter should accidentally or otherwise come in contact with it in the sink.

It will be readily seen that the parts of my auxiliary-strainer are all easily and cheaply made and assembled, as well as taken apart and replaced or repaired, and that the device avoids the disagreeable, inconvenient and unsatisfactory removal by the fingers and separation of the foul or foreign refuse-matter from the dish-water that collects on the regular sink strainer-disk, or seeps unawares into the drain and trap below for ill-smelling and unsanitary conditions, afterward, in the drain-way.

I claim:—

A removable auxiliary-strainer for kitchen-sinks comprising a minutely perforated body-portion having a dome-shape center, a pair of arched resilient brace-arms mounted in crossed relation upon the said perforated body-portion, aligned central orifices in the said perforated body-portion and said resilient brace-arms, and a forked expansively-locked fastening device having an upper manipulating-end and extending downwardly through said aligned orifices in the said body-portion and said resilient brace-arms for assembling them over the customary perforated disk in the discharge-opening to the drain-pipe of a kitchen-sink and with the expansible lower ends of the said forked fastening device in detachable anchoring-engagement with the central opening of the said perforated discharge-opening disk, substantially as shown and described.

HARRIET E. BARGER.