

Sept. 13, 1955

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2,717,397

CLAMP FOR SINK ASSEMBLY

Filed Nov. 14, 1952

FIG. 5.

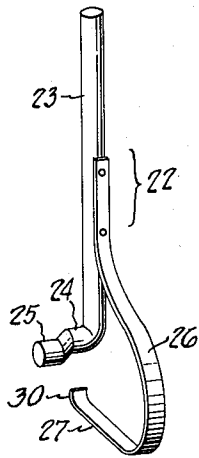


FIG. 2.

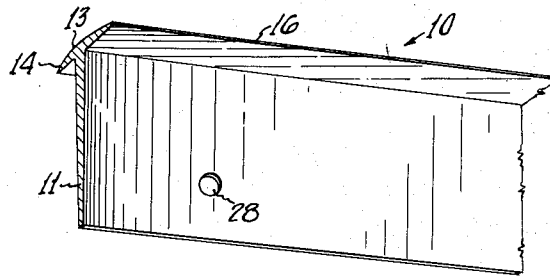


FIG. 6.

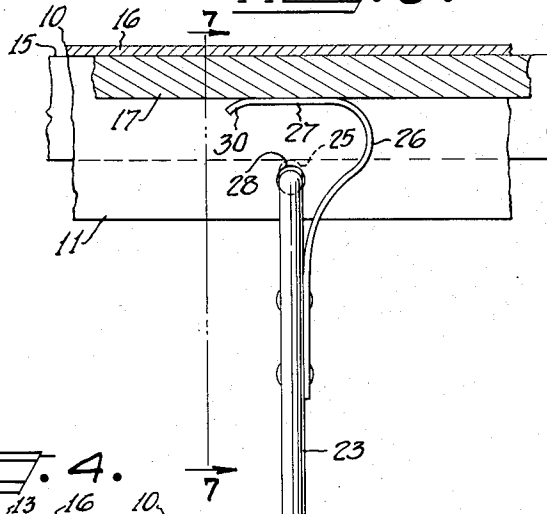


FIG. 7.

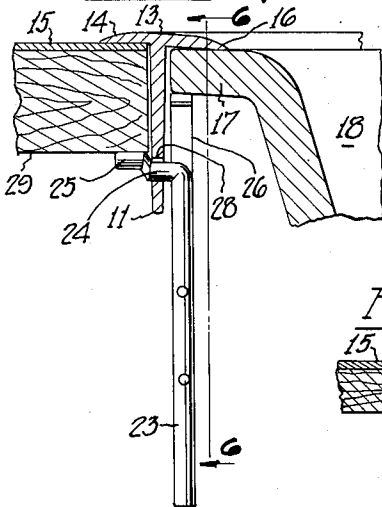


FIG. 4.

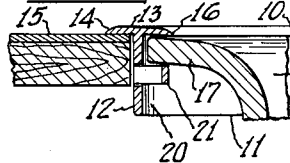


FIG. 3.

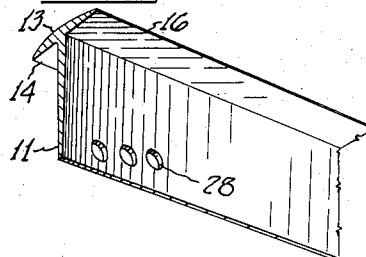
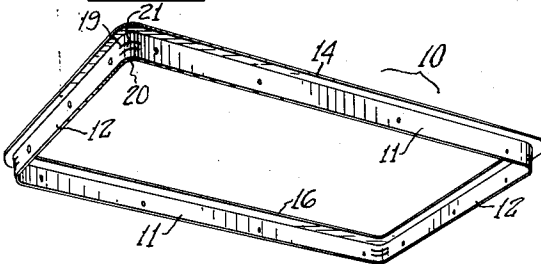


FIG. 1.



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## CLAMP FOR SINK ASSEMBLY

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Application November 14, 1952, Serial No. 320,540

6 Claims. (Cl. 4—187)

This invention relates generally to the mounting of kitchen sinks and particularly to a clamp for sink assembly.

The main object of this invention is to produce a clamp whereby a sink may be securely mounted in a supporting surface without the use of screws or bolts and in a fraction of the time ordinarily required.

The second object is to so mount the sink that its sealing trim will be held down tight upon the edge of the sink and upon the top of the sink supporting surface with equal pressure around the entire perimeter of the sink.

The third object is to save labor and to insure that fastenings are not overlooked on account of their inaccessibility.

These and other objects are accomplished in the manner set forth in the following specification as illustrated in the accompanying drawing, in which:

Fig. 1 is a perspective view of the rim.

Fig. 2 is a fragmentary perspective view of a portion of the rim at an increased scale, showing a portion having the clamp receiving hole.

Fig. 3 is a view similar to Fig. 2, but showing the use of a plurality of holes for various thicknesses on drain board.

Fig. 4 is a fragmentary section through the corner of the sink showing the rim to sink fastening.

Fig. 5 is a perspective view of the clamp.

Fig. 6 is a vertical section taken along the line 6—6 in Fig. 7, showing the clamp in place.

Fig. 7 is a vertical section taken along the line 7—7 in Fig. 6.

Like numbers of reference refer to the same or similar parts throughout the several views.

Referring in detail to the drawing, there is shown a rim 10 comprised of the vertical sides 11 and ends 12, having a trim flange 13 whose outer edge 14 rests upon the drain board surface 15 and whose inner edge 16 rests upon the flange 17 of the sink 18.

The rim 10 has parallel slots 19 cut through its corners 20 so that the intervening metal 21 can be pushed under the sink flange 17 to hold the rim 10 to the sink 18 and support the sink until the clamps can be applied.

This construction is shown in detail in my co-pending application, Serial No. 301,142, filed July 26, 1952.

In order to clamp the rim 10 down tightly upon the drain board 15 and the sink flange 17 we have provided a special form of clamp 22 shown in Figs. 5, 6 and 7.

The clamp 22 has a lever 23 formed at one end and a pivot shaft 24 formed at the other end. Extending from the pivot shaft 24 is an eccentric arm 25. Secured to the lever 23 is a spring arm 26 which terminates in a straight end 27 which is normal to and extends approximately equal distances on both sides of the plane of the lever 23. The end 27 constitutes a sink flange engaging member while the pivot shaft 24 journals freely in a hole 28 and the eccentric arm 25 engages the under side 29 of the drain board 15 when the lever 23 is moved to a vertical position as shown in Fig. 6.

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It is desirable to round the tip 30 of the end 27 to facilitate rolling the clamp into place.

The operation of the device is as follows: The rim 10 is first attached to the sink by pushing in the metal strips 21 and the sink 18 is lowered into place. Clamps 22 are now put in place in the various holes 28 and swung downwardly and the mounting is completed.

A number of sink trim frames are on the market but all require too much time setting screws and fastenings in awkward places and consume an undesirable amount of time for the work.

I claim:

1. A sink assembly comprised of a flanged sink, a trim frame of T-shaped cross section surrounding said sink, one leg of said frame being in a vertical plane and having parallel horizontal slots formed therein with the intervening metal extending under the sink flange, and a clamp for holding said trim frame downwardly and said sink upwardly, comprises of a lever having a spring branching therefrom and extending beyond one end of the lever and normal thereto, that end of said lever having a pivot shaft formed thereon journalling in the vertical portion of said trim frame, said pivot shaft having an eccentric arm extending therefrom engaging the under side of a drain board when said lever is moved to a vertical position and the end of said spring is engaging the under side of the sink flange.

2. A clamp for sink assemblies comprised of a straight lever having a pivot shaft formed on one end normal to the lever, said pivot shaft having an eccentric arm projecting therefrom and a spring attached to said lever having one end extending around the shaft end of said lever and normal thereto and normal to a plane passing through said lever, shaft and arm and a rectangular trim having a T-shaped cross section provided with perforations around the perimeter thereof forming journals for said eccentric arm.

3. The combination of a sink trim frame having a perforated side wall and a clamp comprised of an eccentric lever journalling in the perforation in said side wall, an eccentric arm forming a continuation of said shaft and turned opposite to said lever, and a spring attached to said lever having a straight end extending beyond the shaft end of the lever and normal to the shaft and lever whereby said flat spring portion will engage the under side of a sink flange while said lever is in a vertical position and said eccentric arm extends upwardly toward the under side of a drain board in which the sink is mounted.

4. In a sink assembly the combination of a trim having a T-shaped cross section, the body of the T being adapted to extend vertically between a sink body and a table opening therefor and to extend below the bottom of the table top, said extending portion having a plurality of holes formed around the perimeter thereof forming journals for a clamp member, and a clamp member comprised of a straight lever having an intumed end journalling in one of said holes, said intumed end having an eccentric arm formed on the end thereof adapted to engage the under side of the table top when said lever is rocked, a spring arm secured to said lever having a straight end intersecting the axis of said lever beyond the turned end thereof, said straight end lying in a plane normal to the axis of said eccentric arm and lever, said spring arm serving to hold said eccentric arm in a locking position.

5. A clamping member for a T-shaped sink trim frame having a perforated vertical web, comprising a lever having at one end a short pivot shaft extending at right angles thereto, an eccentric drainboard clamping element on said pivot shaft, and a spring arm sink flange clamping element on said lever having a flat portion at a distance from said pivot shaft.

6. A clamping member for securing a sink flange and

a drainboard on opposite sides of a perforated vertical web of a T-shaped sink trim frame, comprising a lever having a short pivot shaft extending at right angles therefrom, an eccentric drainboard clamping element on one end of said shaft, and a spring arm sink flange clamping element on said lever at the other end of said shaft.

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