Jan. 21, 1958 J. H. OPSTAD 2,820,229

SINK RIM

Filed Aug. 2, 1955

Fig. 1

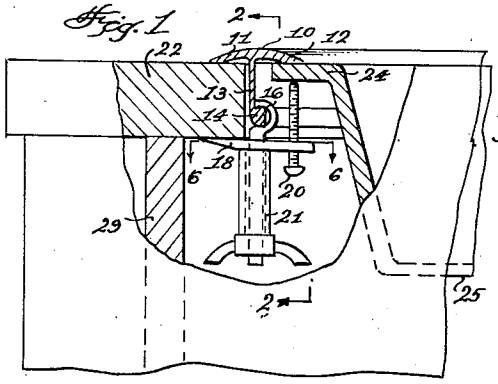


Fig. 2

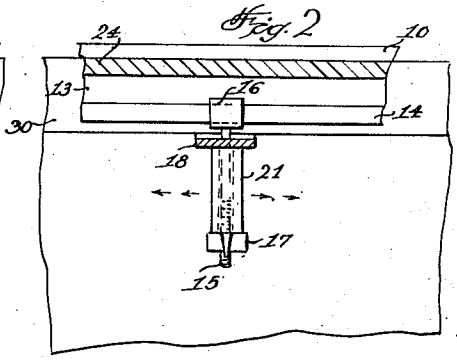
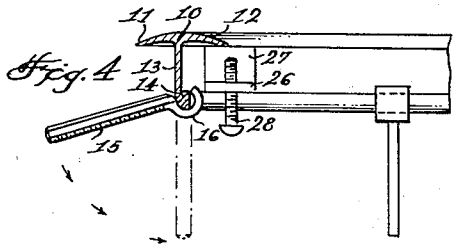


Fig. 4



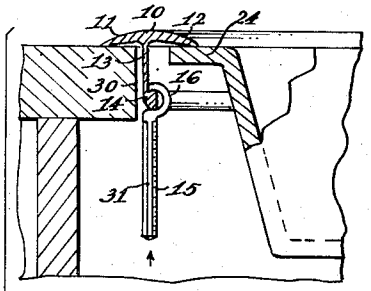


Fig. 3

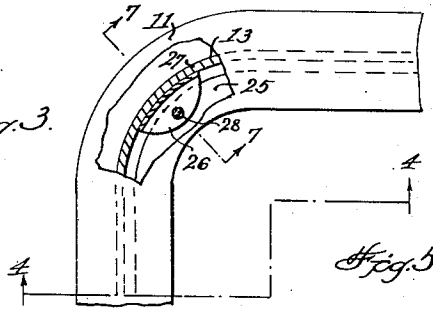
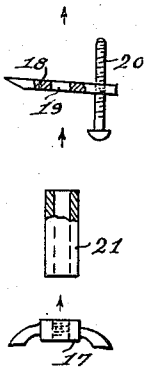


Fig. 5



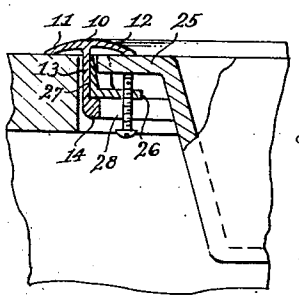


Fig. 7.

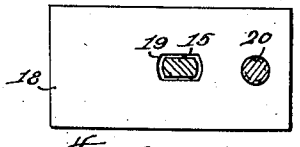


Fig. 6.

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United States Patent Office 2,820,229
Patented Jan. 21, 1958

2,820,229

SINK RIM

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Application August 2, 1955, Serial No. 525,866

1 Claim. (Cl. 4—187)

This invention relates to devices for installing kitchen sinks, washtubs, and the like in openings in tops of kitchen cabinets, panels, and the like, and in particular, a rim having a flange extended over the adjoining portion of the panel or top and another flange extended over the rim of a sink or the like and a clamp having an extended screw for urging the flanges of the rim downwardly upon upper surfaces of the panel and flange of the rim of the sink whereby a thumb nut on the lower end of the screw extended from the clamp is adapted to be rotated to secure the parts in assembled relation from a point below the lower part of the sink so that a plumber or other workman is not required to work in the close quarters usually provided between the walls of a sink or tub and cabinet.

The purpose of this invention is to facilitate installing kitchen sinks, washtubs, and the like whereby rims of such devices are adapted to be clamped in openings of panels or tops of cabinets from points below lower surfaces of the sinks or tubs so that the workmen may operate in comfort.

In conventional sink installations, comparatively narrow spaces are provided between outer surfaces of the bodies of sinks and adjoining surfaces of cabinets or stands in which the sinks are installed and it is very difficult to operate a wrench or screwdriver in such areas. For this reason comparatively crude joints are formed between rims of sinks, tubs, and the like and panels or tops of cabinets in which the devices are positioned and surfacing materials used in combination with the panels or tops around sinks or tubs soon bulge, split, or disintegrate. With this thought in mind, this invention contemplates a clamp for a rim adapted to be positioned around a sink, tub, or the like in which the clamp is provided with an elongated screw or bolt whereby the parts are adapted to be clamped in assembled relation from a remote point, such as a point positioned below the lower surface of the sink or tub.

The object of this invention is, therefore, to provide means for forming a rim for a sink, tub, or the like wherein the clamping elements are adapted to be actuated in comparatively open areas spaced below the connecting portions of a sink and panel or top.

Another object of the invention is to provide an improved rim for a sink or the like in which the rim is adapted to be used in combination with sinks, tubs, and such devices now in use.

A further object of the invention is to provide a rim for sealing a joint between a sink or tub and the top or panel of a cabinet in which the sink or tub is positioned wherein clamping elements of the sealing means are adapted to be actuated from a point spaced below the joint in which the device is of a simple and economical construction.

With these and other objects and advantages in view, the invention embodies a substantially flat arcuate rim

having a web with a bead on the lower edge depending therefrom with an elongated bolt having a gripping finger on the upper end adapted to be positioned over the bead with a griping jaw, a spacing tube and a thumb nut positioned on the bolt and with the jaw provided with a set screw for adjusting the position thereof to correspond with the panel or cabinet top.

Other features and advantages of the invention will appear from the following description, taken in connection with the drawing, wherein:

Figure 1 is a front elevational view of a kitchen cabinet with parts broken away showing the installation of one side of a sink in the cabinet with the rim of the sink clamped in position with an arcuate molding or rim and with flanges of the arcuate molding or rim clamped against the upper surfaces of the cabinet top and rim of the sink with a thumb nut, spacing tube and jaw on an elongated bolt depending from the molding or rim.

Figure 2 is a cross section through the joint taken on line 2—2 of Figure 1 with parts of the clamping element shown in elevation and with other parts broken away.

Figure 3 is a plan view of a connection at the round corner of a sink showing a modification wherein the elongated bolt is omitted and the parts are retained in position with a set screw.

Figure 4 is a cross section through a rim of a sink or tub taken on line 4—4 of Figure 3 showing the elongated bolt of the clamp turned to a position to facilitate installing fingers at the upper end of the bolt on the bead of the rim in full lines and with the bolt turned to a position for use in broken lines.

Figure 5 is an exploded view of the improved sink rim with the parts as shown in Figure 1, the parts being separated and spaced below the joint.

Figure 6 is a sectional plan taken on line 6—6 of Figure 1 showing the lower gripping jaw of the clamp.

Figure 7 is a cross section taken on line 7—7 of Figure 3 showing a method of temporarily clamping an arcuate or round corner of a rim in position on a sink as the sink is being installed in a cabinet or the like.

Referring now to the drawing, wherein like reference characters denote corresponding parts, the improved sink rim of this invention includes an arcuate rim 10 having extended flanges 11 and 12 with a depending web 13 having a bead 14 on the lower edge, a bolt 15 having a finger 16 on the upper end for gripping the bead 14 of the web 13, a wing or thumb nut 17 adapted to be threaded on the lower end of the bolt 15, a coacting gripping jaw 18 have an opening 19 therein to receive the bolt 15 and having a set screw 20 threaded in the base thereof, and a spacing sleeve 21 adapted to be positioned on the bolt 15 and adapted to be urged against the jaw 18 by the nut 17.

With the parts as illustrated in Figure 1, the flange 11 of the rim 10 is positioned upon an edge of a panel or top 22 of a kitchen cabinet 23 and the flange 12 on the opposite side of the rim is positioned upon a flange or rim 24 of a kitchen sink, as indicated by the numeral 25, and with the parts assembled, wherein the finger 16 is extended around the bead 14 and the jaw 18 positioned against the under surface of the panel or top 22 the nut 17 is actuated from a point below the sink whereby the parts are clamped in position, securing the sink in the opening in the panel or top of the cabinet.

With the adjusting or set screw 20 threaded in the base or heel of the jaw 18 and with the jaw urged upwardly by the nut 17 and sleeve 21, the position of the jaw in relation to the flange 11 on the rim or molding strip is readily adjustable to compensate for panels or

cabinet tops, such as the member **22**, of different thicknesses.

In making installations, the rim is temporarily held to the sink by a fastener, as illustrated in Figure 3, wherein an inner clip angle having a horizontally disposed leg **26** and a vertically disposed leg **27** may be used with the corner of the clip angle resting upon the upper surface of the bead **14** at the lower edge of the web **13** of the rim **10** and with an adjusting screw **28** threaded in the horizontally disposed leg **26**.

The clamping ring illustrated in Figure 1 may be used at major points at the sides and ends of a sink, tub, or the like and the clip angle illustrated in Figure 7 may be used at the corners to retain the parts in assembled relation as the other fasteners are being installed. By this means a substantially flat arcuate rim **10** is adapted to be positively secured by clamping elements continuously around a sink, washtub, or the like.

Although the sleeve **21** is illustrated as being comparatively short, it will be understood that the length of the sleeve is adapted to be extended so that a plumber or mechanic may readily grip the nut **17** at the lower end of the threaded rod **15** from a point below a sink or washtub. By this means the clamping elements may be adjusted to secure the parts in assembled relation without the inconvenience of operating a wrench or screwdriver in the narrow space between the side walls of a sink or washtub and a wall, such as the wall **29**, of a cabinet or the like.

With a sink or the like positioned in an opening, such as the opening **30** of a kitchen cabinet, top or panel, the web **13** of the rim **10** is dropped downwardly through the slot between the edge of the flange **24** of the sink and the edge of the top or panel and with the rim in position the rod **15** is inserted with the finger **16** thereof which is flat in cross section positioned over the bead **14** and with the jaw **18** retained on the rod with the sleeve **21**. The rod **15** extends through the opening **19** of the jaw, the opening **19** being rectangular shaped and the rod **15** having flat sides **31** to prevent turning of the jaw on the rod whereby with the set screw **20** positioned to

hold the upper surface of the jaw **18** against the under surface of the top or panel **22** the thumb nut **17** may be threaded on the lower end of the rod **15** to positively clamp the parts in assembled relation, as shown in Figure 1.

The parts may be provided in different sizes to accommodate different types of installations and the parts may also be formed of non-corrosive materials or of coated or galvanized materials as may be desired.

It will be understood that modifications, within the scope of the appended claims, may be made in the design and arrangement of the parts without departing from the spirit of the invention.

What is claimed is:

A sink rim comprising a strip of material arcuate in cross section having a depending web positioned intermediate of the edges and having a bead on the lower edge of the web, an elongated rod having a threaded lower end and having a finger for gripping the bead of the web of the rim on the upper end, said rod having flat sides, a jaw having a rectangular shaped opening therethrough slidably mounted on the rod with the rod extended through the opening and said jaw being positioned to coact with one side of the rim for clamping the rim against the upper surfaces of a panel and a flange of a sink, a set screw threaded in the jaw and positioned to engage the under surface of the flange of the sink, an elongated spacing sleeve positioned on the rod, and a nut threaded on the lower end of the rod, said nut being positioned in a plane substantially corresponding with that of the bottom of the sink.

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