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2,267,462

BATHTUB HANGER

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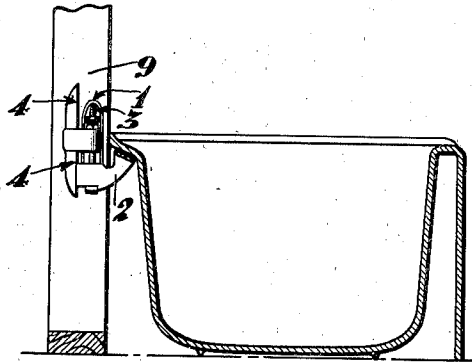


Fig. 1

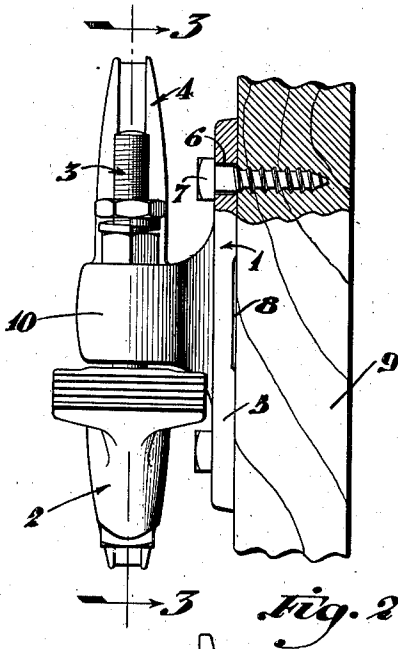


Fig. 2

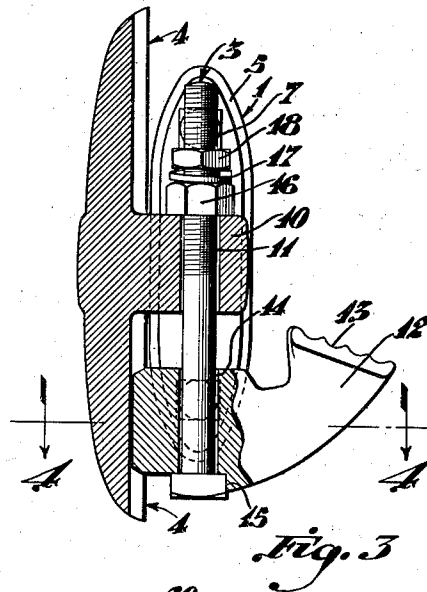


Fig. 3

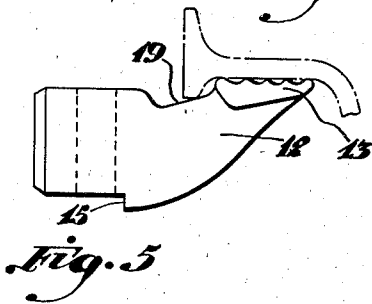


Fig. 5

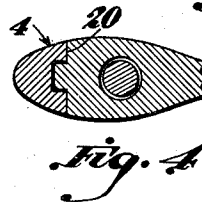


Fig. 4

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BATHTUB HANGER

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11 Claims. (Cl. 248—274)

This invention relates to a hanger or bracket which is adapted to be used for supporting a bathtub to prevent it from settling over a period of time, and thereby causing cracks or gaps to form intermediate the rim of the tub and the room walls which meet the rim.

The principal object of the present invention has been to provide a simple and inexpensive device which may be fastened to a wall stud and provide, to extend therefrom, a foot or support upon which the rim of the tub may be rested. The present invention relates to an improvement of hangers of the type shown in my earlier Patent No. 2,091,098 of August 24, 1937, and contemplates a structure which may be mounted in alternative positions. The present unit is characterized by its strength and rigidity and the convenience in which it may be installed.

In the present structure, the foot or support upon which the rim of the bathtub is carried is suspended from a bolt or other member which in turn is carried from a bracket member adapted to be mounted upon the wall studding. The rearward portion of the foot is supported against lateral movement, as well as against rotation, by engagement with a stationary arm. The latter, in the preferred structure, extends from the bracket plate and comprises a groove which the rearward part of the foot engages, whereby the foot is held against lateral or rearward movement and also is prevented from rotating or shifting to an altered position over any extended period of time.

Various other features and advantages of the present structure will be understood from the following description of the drawing wherein a preferred embodiment of the invention is illustrated.

In the drawing:

Figure 1 is a sectional elevation showing the relationship of the bathtub to the hanger, and also showing the manner in which the hanger is used to support the rim.

Figure 2 is a face view of the hanger.

Figure 3 is a cross sectional view through the hanger taken on line 3—3 of Figure 2.

Figure 4 is a fragmentary sectional view taken on the line 4—4 of Figure 3.

Figure 5 is a view illustrating a modified form of foot support for the hanger assembly.

The device illustrated in the drawing is comprised generally of a bracket member 1, a foot portion 2, a bolt or other suitable adjustment means 3, and the guide and support member 4

which preferably is integral with and extends from the bracket portion.

Bracket 1 is comprised of a plate portion 5 bored, as at 6, to carry lag screws or bolts 7, whereby the bracket is fastened to the wooden studding 9, forming the foundation for the wall of the bathroom in which the tub is to be installed. The inner face of the bracket plate is preferably relieved, as at 8, so that the plate can gain a firm purchase against the face of the wall stud.

A boss portion 10 extends from the outer face of the bracket plate 5 and is bored, as at 11, to carry the support bolt 3.

The foot is bored as at 14 to receive the suspension bolt 3 and the lower portion of the foot is notched as at 15 to provide clearance for the head of the bolt and also to provide means for preventing the bolt from turning when the nut 16 at the other end of the bolt is rotated. Above the nut 16 a lock washer 17 and a lock washer 18 are provided so as to lock the bolt in position once the bathtub has been elevated to the desired height.

Foot 2 is comprised of a platform support portion 12 and the latter, as indicated at 13, is serrated or checkered so as to provide a friction grip with the lower part of the rim of a bathtub.

In recent years bathtubs made entirely of ceramic material have been utilized; the underneath surfaces of the rims of such tubs slope downwardly as shown in Figure 1; and to support such tubs, the platform of the foot is inclined to engage the rim surface over a substantial area.

The body portion of the foot extends rearwardly beyond the bolt hole and terminates in a back face 20. This space of the foot rests in abutment with the forward face of the buttress 4. The buttress in the preferred structure is formed integrally with the boss of the bracket plate so that when the bracket plate is mounted upon the wall the buttress is stationary with respect to the foot. When the weight of the bathtub is loaded downwardly upon the foot it in turn is prevented from moving axially or from placing undue strain upon the bolt support, since the back face of the foot rests against the forward face of the buttress. This arrangement is particularly useful in connection with the installation of bathtubs in which the interior surfaces of the rims slope downwardly since the angulation of the rim naturally tends to push the foot backwardly out of engagement with it. By the present structure the tub can neither slide from the foot nor push it backwardly to assume any lower position.

It is preferable that tongue and groove members be provided at the back part of the foot and the forward face of the buttress so that the tongue of the one member engages the groove of the other. By this construction the foot is prevented from turning relative to the bracket plate. Such an arrangement permits the bathtub to be shifted longitudinally to one position or another at the time that it is being installed without disturbing the foot positions or placing undue strain upon them.

In the device shown in the drawing there are two buttress members 4, one extending from the upper face of the boss of the bracket plate and the other extending from the lower face. Each is similarly configured and the device is reversible, that is, it may be mounted at either the left-hand face of a stud, as shown, or flopped over and mounted on the right-hand face with the foot portion extending beyond the forward edge in either case. As shown in the drawing, the faces of the support buttresses are at approximate right angles to the face of the bracket and the platform of the foot support extends in a direction which is approximately at right angles to but beyond the forward edge of the wall studding.

The modified form of foot shown in Figure 5 is adapted for use in conjunction with bathtubs made of enameled cast iron. Such tubs have a rim which extends in a substantially horizontal direction, and a lip depending from the outer edge of the rim. The modified form of foot has a portion 19 which slopes away from the platform thereof, in such manner that the lip engages the sloping surface and thereby causes the tub to hug the wall. The platform in this instance is positioned to engage the underneath surface of the rim.

In the utilization of the device, the bracket plate 1 is fastened to the studding by means of the lag screws 7 at such a height from the floor that the surface of the foot platform is at approximately the proper elevation relative to the rim of the bathtub. The bathtub is then moved into position so that the rim of it lies adjacent the wall studding and extends over the foot support. The nut 16 is then adjusted until the bathtub is elevated to its final position. During this adjustment the lip or tongue rides within the groove and therefore guides the foot as it is being raised or lowered. The nut 18, thereafter, is operated to lock the bolt in position.

Since the rim of the tub is supported from the wall there is no sagging of the tub or separation of the tub from the plaster or tile wall surface of the bathroom. In a typical installation it is usually best to use two hangers for supporting the tub at the lengthwise rim and one hanger at each of the crosswise rims at the ends.

From the foregoing description of the preferred embodiment of the invention it is believed that those skilled in the art readily will understand the various modifications which may be made without departing from the spirit of the present improvement.

Having described my invention, I claim:

1. A bathtub hanger comprising a bracket plate which is adapted to be fastened to a wall stud or the like, a boss extending from the bracket plate, suspension means supported from said boss, a foot member carried by said suspension means, the said foot member terminating at the one side in a support portion and at the other side in an abutment portion, and a buttress connected with said bracket plate, and providing a

surface disposed laterally with respect thereto, the said surface of the buttress being positioned to be engaged by the abutment portion of said foot member.

2. A hanger for a bathtub comprising a bracket plate which is adapted to be fastened to a wall stud or the like, a foot member having a platform portion extending beyond an edge of the bracket plate for engagement with the rim of a bathtub, support means carried by the bracket plate for suspending the foot member therefrom, and buttress means extending from the bracket plate for engagement with the foot member at the side thereof opposite the platform portion of the foot member, thereby preventing canting of the foot member under a load imposed upon it with complementary tongue and groove means intermediate the buttress member and the foot member for preventing the foot member from being rotated relative to the support means.

3. A hanger for a bathtub, which comprises a bracket member adapted to be secured to a wall stud or the like at the one side, suspension means residing in spaced substantially parallel relationship with the bracket member and carried thereby at the other side, a hanger member extending sidewise from the suspension means and terminating in a platform portion having a serrated surface adapted for engagement at the underneath portion of the rim of a bathtub, and buttress means for preventing the suspension means from canting under the load imposed upon said platform portion when a bathtub is rested on it.

4. A hanger for a bathtub, which comprises a bracket member adapted to be secured to a wall stud or the like at the one side, suspension means residing in spaced substantially parallel relationship with the bracket member and carried thereby at the other side, and a foot member extending sidewise relative to the bracket member and terminating in a platform portion having a serrated surface adapted for engagement at the underneath portion of the rim of a bathtub, the said platform portion being inclined with respect to the suspension means, so that when the suspension means resides in a substantially vertical plane the platform portion is positioned to fit the contour of the underneath portion of the rim of a bathtub.

5. A device for suspending a bathtub from a wall stud or the like, which comprises a bracket plate adapted to be fastened to a face of a wall stud, a boss extending from the bracket plate opposite the stud engaging face, the boss having a bore therein, a bolt extending through said bore and carrying a nut for engagement with said boss, said bolt, at the end opposite the nut, carrying a support member providing a foot portion adapted for engagement with the rim of a bathtub, and a buttress extending from said boss and positioned to engage said support member at a point opposite the foot portion thereof.

6. A device for suspending a bathtub from a wall stud or the like, which comprises a bracket plate adapted to be fastened to a face of a wall stud, a boss extending from the bracket plate opposite the stud engaging face, the boss having a bore therein, a bolt extending through said bore and carrying a nut for engagement with said boss, said bolt, at the end opposite the nut, carrying a support member providing a foot portion adapted for engagement with the rim of a bathtub, a buttress extending from said boss and

positioned to engage said support member at a point opposite the foot portion thereof, and another buttress member extending from the boss at the side opposite the said support member and being similar to the first buttress member for enabling the device to be mounted reversibly upon either face of a wall stud.

7. A device for suspending a bathtub from a wall stud or the like, which comprises a bracket adapted to be fastened to a wall stud and providing a boss extending therefrom, adjustable suspension means carried by said boss, a support member terminating in a platform portion carried by said suspension means, and a buttress member extending from said boss in opposite directions and providing faces extending substantially parallel with said suspension means, the abutment member adjacent the said support member being adapted to engage the support member and prevent lateral movement of it, and the face of the buttress member on the other side of the boss being similarly disposed, whereby the bracket may be reversibly mounted upon either face of a wall stud.

8. A device of the class described, comprising a bracket plate adapted to be mounted to the face of a wall stud or the like, a support member extending outwardly from the bracket plate, a buttress member extending from the support member and providing an abutment surface disposed laterally relative to the bracket plate, and a footed hanger adapted for engagement with the rim of a bathtub carried by said support member and having a portion engaging abutment surface of said buttress means.

9. A device of the class described, comprising a bracket plate adapted to be mounted to the face of a wall stud or the like, a support mem-

ber extending outwardly from the bracket plate, a buttress member extending outwardly from the bracket plate and providing an abutment surface residing laterally with respect thereto, and a footed hanger member adapted to support a bathtub, dependently carried by said support member, the abutment surface of the buttress member having a longitudinal groove therein and the said hanger member having a tongue positioned for slidable engagement with said groove.

10. A device of the class described, comprising a bracket adapted to be fastened to the face of a wall stud or the like and providing a boss extending outwardly therefrom, the said boss having a bore therein, a suspension bolt passing through said bore and carrying a nut for engagement with the boss, a foot member carried by said bolt, the foot portion terminating in a platform adapted for engagement with the rim of a bathtub, and a buttress member extending laterally from the boss in a direction substantially parallel with said bolt at the side of the foot member beyond the platform, the buttress member being adapted to support the foot member against lateral displacement when the weight of the bathtub is rested upon the platform.

11. A hanger device of the class described comprising a bracket element adapted to be fastened to a wall, means extending outwardly from the bracket element, providing an abutment surface which is disposed laterally with respect to the bracket element, a foot element having a portion adapted to engage the rim of a bathtub, and another portion adapted to engage the said abutment surface, and means for supporting the foot element from the bracket plate.

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