April 5, 1938. G. B. BENTZ 2,113,190

BATHTUB SEAT ATTACHMENT

Filed Sept. 14, 1937

Fig. 1.

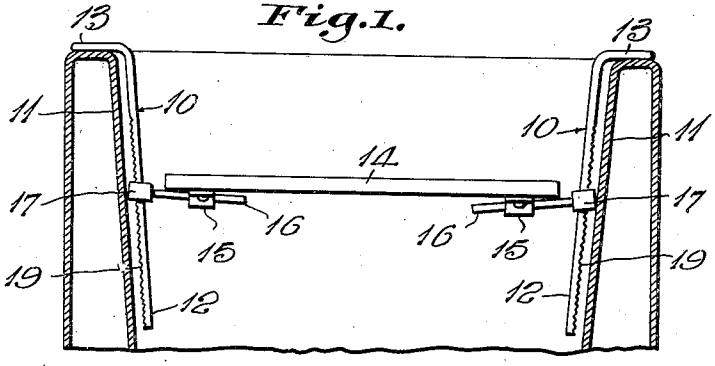


Fig. 2.

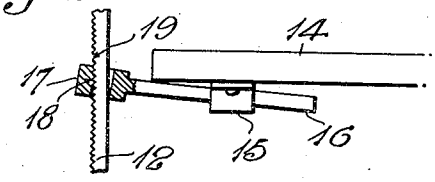


Fig. 3.

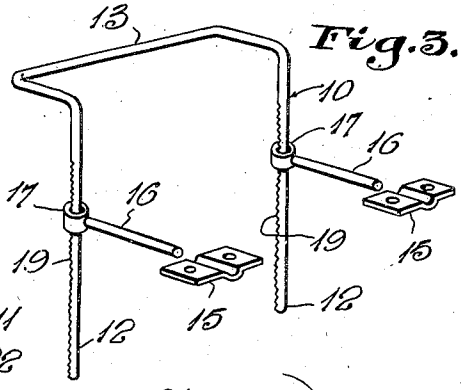


Fig. 4.

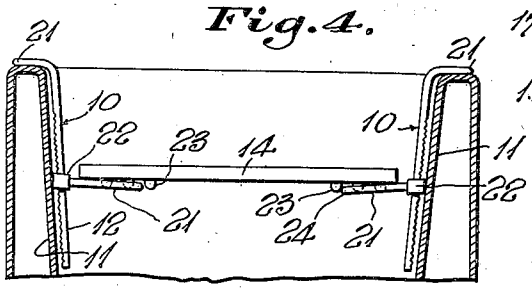


Fig. 5.

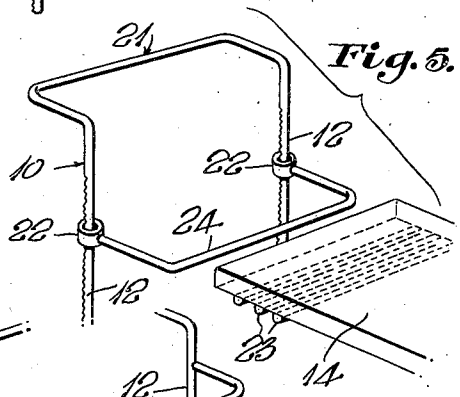


Fig. 7.

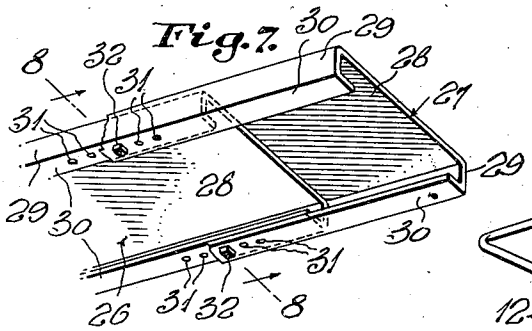


Fig. 8.

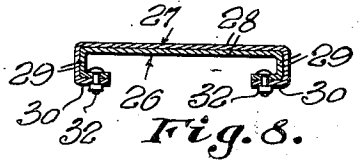
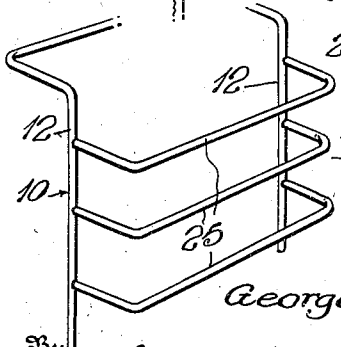


Fig. 6.



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Patented Apr. 5, 1938 2,113,190

UNITED STATES PATENT OFFICE

2,113,190

BATHTUB SEAT ATTACHMENT

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Application September 14, 1937, Serial No. 163,847

7 Claims. (Cl. 4—185)

The invention aims to provide a new and improved seat attachment for bathtubs, embodying novel construction whereby said attachment may be vertically adjusted to position the seat at a desired elevation, and may be adjusted to fit tubs of different widths.

With the foregoing in view, the invention resides in the novel subject matter hereinafter described and claimed, description being accomplished by reference to the accompanying drawing.

Fig. 1 is a transverse sectional view through a bathtub showing one form of the seat attachment applied thereto.

Fig. 2 is a detail sectional view showing the manner of adjustably connecting the seat with the frames disposed at opposite ends thereof.

Fig. 3 is a perspective view of one of the frames and associated features of construction.

Fig. 4 is a view similar to Fig. 1 but showing a different construction.

Fig. 5 is a perspective view of the frame at one end of the attachment of Fig. 4, and associated features of construction.

Fig. 6 is a perspective view showing another form of frame for supporting the seat.

Fig. 7 is a fragmentary perspective view showing an extensible and contractible seat structure.

Fig. 8 is a transverse sectional view on line 8—8 of Fig. 7.

The attachments shown in Figs. 1 to 6, each includes two frames 10 for disposition at the inner sides of the tub side walls 11, each of said frames being provided with vertical rod portions 12 in parallel relation with each other and with an outwardly bent U-shaped hook portion 13 integrally joined to the upper ends of said rod portions 12, and each of said forms of construction includes a seat 14 and means for supporting it upon the frames 10 at any desired elevation, and permitting said frames to be spaced different distances apart to adjust the attachment for tubs of different widths.

In Figs. 1, 2, and 3, the seat 14 is provided at its lower side with bearings 15 at the end portions of said seat. These bearings loosely receive short horizontal rods 16 having eyes 17 surrounding and vertically adjustable along the rod portions 12. The eyes 17 are so constructed that when weight is supported by the short rods 16 tending to downwardly tilt the inner ends of these rods, said eyes will cant and thereby tightly grip the vertical rod portions 12, but when the inner ends of the short rods 16 are tilted upwardly, the eyes 17 will release their grip upon the rod portions 12, allowing adjustment of said eyes along said rod portions 12 to change the height of the seat 14 as may be required. It is preferable to provide the eyes 17 and the rod portions 12 with coacting teeth 18 and 19 which positively prevent said eyes from sliding downwardly upon said rod portions 12.

The short rods 16 are loose enough in the bearings 15 to allow the tilting above described. Moreover, these rods may slide longitudinally in said bearings 15, thus permitting the two frames 10 to be spaced different distances apart, enabling the attachment to be adjusted for tubs of different widths.

In Figs. 4 and 5, the ends of the seat 14 are each supported by a one-piece U-shaped member 21 having eyes 22 on its ends, said eyes being adjustably engaged with the vertical rod portions 12, in the same manner as above described. The lower side of the seat 14 is provided with transverse cleats 23 spaced apart longitudinally of its end portions to straddle the rod portions 24 of the U-shaped members 21, holding the seat against endwise slippage regardless of the distance which the frames 10 must be spaced apart.

In Fig. 6, the frame 10 is provided with vertically spaced U-shaped members 25 welded or otherwise secured to the vertical rod portions 12 for supporting a seat at any desired elevation, and the seat shown in Fig. 4 may well be used with this form of construction.

In Figs. 7 and 8, I disclose a seat whose length may be varied, said seat comprising inner and outer telescoped sections 26 and 27. Each of these sections comprises a top plate 28, two longitudinal flanges 29 bent downwardly from the longitudinal edges of said top plate, and two horizontal flanges 30 bent inwardly from the lower edges of said vertical flanges 29. The flanges 30 of the two sections are formed with longitudinally spaced openings 31 through any of which bolts 32 may be passed to hold the sections 26 and 27 in relatively adjusted position. Removal of the bolts permits quick and easy adjustment of the seat length.

From the foregoing taken in connection with the accompanying drawing, it will be seen that novel and advantageous provision has been made for carrying out the object of the invention, and while preferred details have been disclosed, variations may be made within the scope of the invention as claimed.

I claim:—

1. A bathtub seat attachment comprising two frames each having two parallel vertical rod

portions for disposition at the inner side of a tub wall, and a suspending hook to engage the upper edge of said wall; an elongated seat extending between said frames, and supporting members for the ends of said seat having eyes surrounding and adjustable along said vertical rod portions.

2. A bathtub seat attachment comprising two frames each having two parallel vertical rod portions for disposition at the inner side of a tub wall, and a suspending hook to engage the upper edge of said wall; an elongated seat extending between said frames, and short supporting rods for the ends of said seat, said short rods extending longitudinally of the seat ends and having eyes surrounding and adjustable along said vertical rod portions.

3. A structure as specified in claim 2; together with bearings carried by the ends of the seat and loosely receiving said short rods.

4. A bathtub seat attachment comprising two frames each having two parallel vertical rod portions for disposition at the inner side of a tub wall, and a suspending hook to engage the upper edge of said wall; an elongated seat extending between said frames, and two U-shaped supports for the ends of said seat, the ends of said supports having eyes surrounding and adjustable along said vertical rod portions.

5. A structure as specified in claim 1; said eyes being constructed to cant and grip said vertical rod portions when weight is supported by said supporting members tending to tilt them downwardly, the grip of said eyes on said rod portions being releasable by upward tilting of said supporting members.

6. A structure as specified in claim 1; said eyes being constructed to cant and grip said vertical rod portions when weight is supported by said supporting members tending to tilt them downwardly, the grip of said eyes on said rod portions being releasable by upward tilting of said supporting members, said rod portions and eyes being provided with coacting teeth to positively hold them against descent when weight is supported by said supporting members.

7. A bathtub seat attachment comprising two frames for disposition at the inner sides of the tub side walls, said frames having suspending hooks to engage the upper edges of said walls, horizontal U-shaped rods supported by said frames in position for parallel inwardly spaced relation with the tub side walls, and a seat whose ends rest on said rods, said seat having spaced cleats on its lower side to straddle said rods.

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