

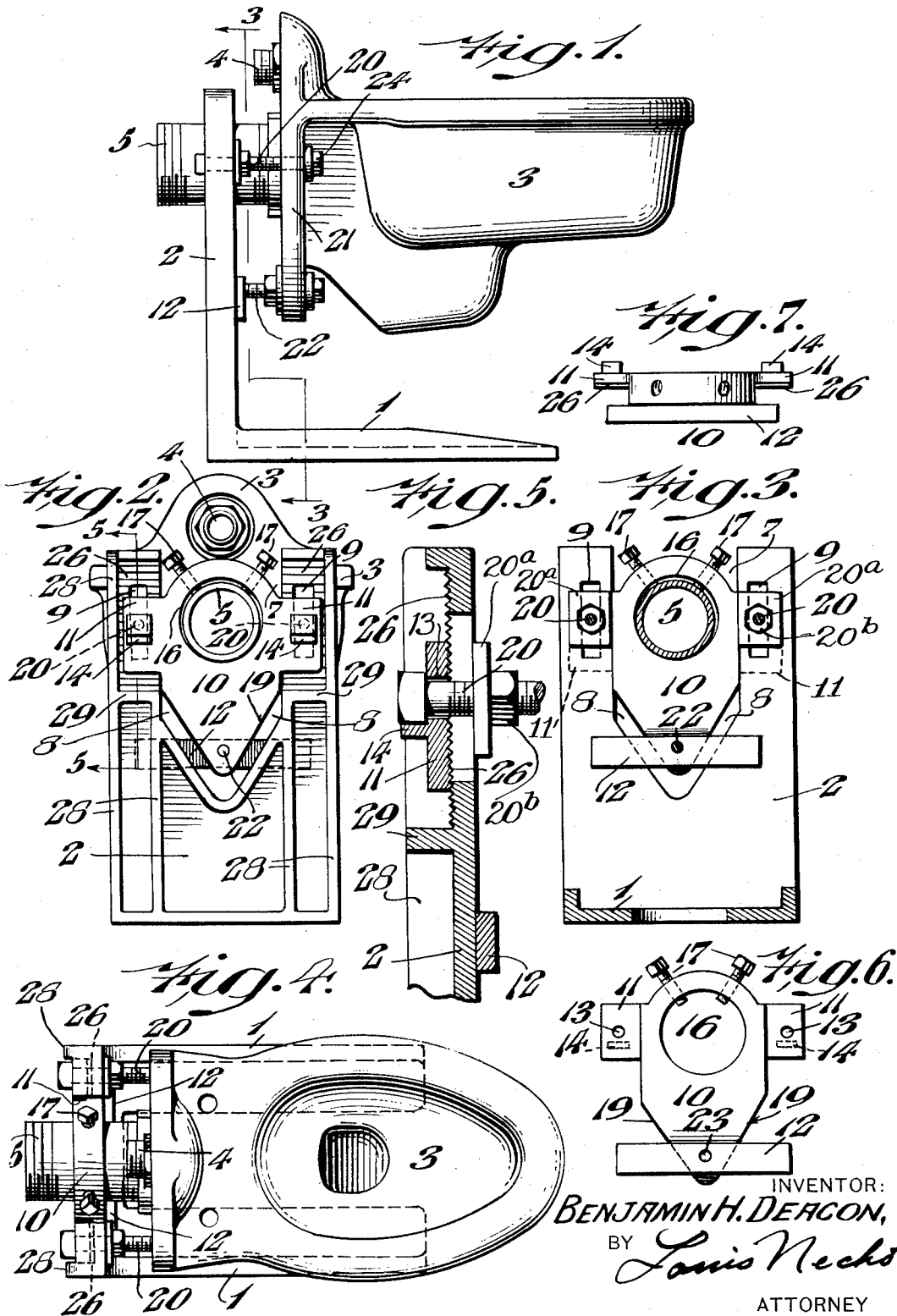
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ADJUSTABLE CHAIR CARRIER

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ADJUSTABLE CHAIR CARRIER

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8 Claims. (Cl. 4—252)

My invention relates to a new and useful adjustable chair carrier which is particularly adapted for supporting a wash basin, toilet bowl, or the like, in a vertically and horizontal adjustable position.

My invention further relates to an adjustable chair carrier of the general character discussed in my co-pending application, Serial No. 556,383, filed August 11th, 1931, the present invention constituting a different embodiment of extremely simplified and yet efficient construction.

To the above ends, my invention consists of an integral L-shaped member having a horizontal sleeper adapted to be imbedded in the floor of a room and a vertical member adapted to be imbedded in or behind a wall of the room, there being a V-shaped cut-out portion or opening in said vertical member, a toilet bowl supporting plate having a generally V-shaped bottom contour adapted to seat within said V-shaped opening, means for effecting frictional engagement between said plate and said vertical member, and means for adjustably securing said plate to said vertical member.

My invention still further relates to various other novel features of construction and advantage, all as hereinafter described and claimed in connection with the accompanying drawing, in which:

Figure 1 represents a side elevation of an adjustable chair carrier shown supporting a toilet bowl.

Figure 2 represents a rear elevation of Figure 1.

Figure 3 represents a section on line 3—3 of Figure 1.

Figure 4 represents a plan view of Figure 1.

Figure 5 represents a section on line 5—5 of Figure 2.

Figure 6 represents a view in elevation of the toilet bowl supporting plate embodying my invention, which is seen in Figures 2 and 3, being shown detached.

Figure 7 is a plan view of Figure 6.

Referring to the drawing, in which like reference characters indicate like parts, and more particularly to Figure 1, it will be seen that I use an L-shaped bracket, having horizontal members or legs 1 which are adapted to be imbedded in the floor of a bath room and to be covered with the floor finish, and a vertical wall 2 which is adapted to be imbedded in a wall of the room and to be concealed from view. 3 designates a wash basin, toilet bowl, or the like, which is of any conventional construction and which is provided with the water inlet pipe connection 4 and

the waste or drain outlet 5. The rear wall 2 of the bracket 1 is provided with the cut-out portion 7 which is of a generally V-shaped formation at its bottom, as indicated at 8. In the upper portion of the vertical wall 2 are provided the vertical slots 9 which will be hereafter further referred to. 10 designates a plate which has the integral ears 11 and the bottom cross-bar 12, the ears 11 being provided with the holes 13 and the lugs 14. In the upper portion of the plate 10 is an opening 16 through which the waste pipe 5 is adapted to pass, the plate 10 being secured to said waste pipe 5 by means of the set screws or bolts 17. The plate 10 gradually tapers at 19 to form a V-shaped bottom terminal portion adapted to fit into V-shaped opening 8 in the vertical wall 2 of the bracket 1. The waste pipe 5 is rigidly secured to the bowl 3 in any conventional manner. To assemble the device, as shown in Figure 1, it is merely necessary to pass the waste pipe 5 through the opening 16 in the plate 10 and to secure said pipe in any desired position by means of the bolts 17. This secures the bowl 3 and waste pipe 5 to the plate 10 and to secure the plate 10 to the vertical wall 2 of the bracket 1 the upper bolts 20 are passed through the openings 13 in the ears 11 of the plate 10, then thru the slots 9 in the rear walls 21 of the bowl 3 and through plates or washer 20^a and secured by nuts 20^b, while the bolt 22 is passed through a corresponding opening in the rear wall 21 of the bowl 3 and through the bottom opening 23 in the lower portion of plate 10. The lugs 14 on the ears 11 serve to engage the heads of the bolts 20 to prevent the turning thereof while the nuts 24 are being tightened. The ears 11 and the cross-bar 12 of the plate 10 are adapted to bear against opposite faces of the wall 2 of the bracket 1, and, as shown in Figure 5, the inner faces of the ears 11 and the rear face of the vertical wall 2 are serrated, as at 26, in order to afford adequate frictional engagement between the coacting surfaces. The cross-bar 12, through which passes the bottom bolt 22, serves to distribute the downward thrust resulting from the weight of the bowl 3 over the entire area of its contact with the vertical wall 2, as will be clearly seen from Figures 1 and 2. The wall 2 is provided with the reinforcing ribs 28 and with the upper shoulders 29 which serve to limit the downward movement of the plate 10, it being understood that when the ears 11 of the plate 10 rest upon the shoulders 29 of the wall 2 the V-shaped portion 19 of the plate 10 will fit within the V-shaped opening 8 in said wall. The ver-

tical slots 9 are of a width greater than the diameter of the bolts 20 passing therethrough and hence permit of a certain amount of horizontal as well as vertical adjustment, it being noted that the over-all width of the plate 10 along the ears 11 is less than the over-all distance between the reinforcing ribs or flanges 28 of the plate 2, as will be best seen from Figure 2.

From the foregoing it will be seen that I have developed an extremely simple, but, nevertheless, strong and adjustable means for supporting a heavy plumbing fixture, such as a toilet bowl, wash basin, or the like, in which a single supporting plate 10, having the side ears 11 and cross-bar 12, carries the bowl 3, and is adapted to be adjustably secured to the vertical wall 2 of an integral sleeper 1, the horizontal legs of which are embedded in the floor of a room and the vertical wall 2 of which is embedded in a wall of the room. The plate 10 is, furthermore, adjustably secured to the vertical wall 2 by the simple means of three bolts 20 and 22 which are adapted to pass through holes 13 and 23 in the ears 11 and the bottom portion 19 of the plate 10, respectively, the ears 11 and the bottom cross-bar engaging opposite surfaces of the rear wall 2 and being provided with serrations 26 to afford sufficient frictional engagement. The adjustment of the plate 10 carrying the bowl 3 with regard to the vertical wall 2, as stated, is accomplished by moving the plate up and down and laterally within the vertical slots 9 and in the bottom V-shaped slot 8, the ears 11 of the plate 10 resting, in the lowermost position of the plate 10, on the shoulders 24. From Figures 6 and 7 the construction of the supporting plate 10 can be clearly seen, and the application of the plate to the rear wall 2 of the bracket 1 can be very clearly seen from Figures 2, 3 and 5.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. In a device of the character stated, a fixed vertical member, a plate adapted to be secured thereto, ears near one end of said plate, a cross bar near the other end of said plate, said ears and said cross bar being adapted to frictionally engage opposite sides of said vertical member, and means for securing said plate and said vertical member in horizontally and vertically adjustable relation to each other.

2. In a device of the character stated, a fixed support comprising a horizontal sleeper and a vertical member, there being a cut-out portion in said vertical member, a plate adapted to fit in said cut-out portion, ears near one end of said plate, a cross bar near the other end of said plate, said ears and said bar being adapted to frictionally engage opposite faces of said vertical

wall member, and means for securing said plate and said vertical wall in horizontally and vertically adjustable relation to each other.

3. A chair carrier, comprising a fixed member comprising spaced unitarily connected arms, a second member positioned between, and having a portion normally engaging one side of, the arms of said first member, and an extension from said second member normally engaging the opposite side of the arms of said first member, and means to secure said members to each other.

4. A chair carrier, comprising a fixed member comprising spaced unitarily connecting arms, a second member positioned between, and having a portion normally engaging one side of the arms of said first member, and an extension from said second member normally engaging the opposite side of the arms of said first member, and means to secure said members in horizontally and vertically adjustable relation to each other.

5. A chair carrier, comprising a fixed upright member comprising spaced unitarily connected arms, a plate having a lateral extension normally frictionally engaging one side of each of said arms and a second extension spaced from the first and normally engaging the opposite side of said arms, and means to secure said plate and said member to each other.

6. A chair carrier, comprising a fixed upright member, a plate having a lateral extension normally frictionally engaging one side of said member and a second extension spaced from the first and normally engaging the opposite side of said member said members being free to move in two planes with respect to each other, and means to secure said plate and said member in horizontally and vertically adjustable relation to each other.

7. A chair carrier, comprising a fixed upright member having spaced parallel arms, a plate having a pair of oppositely extending lateral projections normally frictionally engaging one side of the arms of said member, and having another extension spaced from said pair and normally engaging the opposite side of said member, and means securing said pair of extensions to said member.

8. A chair carrier, comprising a fixed upright member having spaced parallel arms, a plate having a pair of oppositely extending lateral projections normally frictionally engaging one side of the arms of said member, and having another extension spaced from said pair and normally engaging the opposite side of said member between said arms, and means securing said pair of extensions to said member in horizontally and vertically adjustable relation.

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