Aug. 7, 1962 J. L. GRONDONA 3,047,884

BODY ASSIST FOR TOILET SEAT

Filed Nov. 24, 1959 2 Sheets-Sheet 1

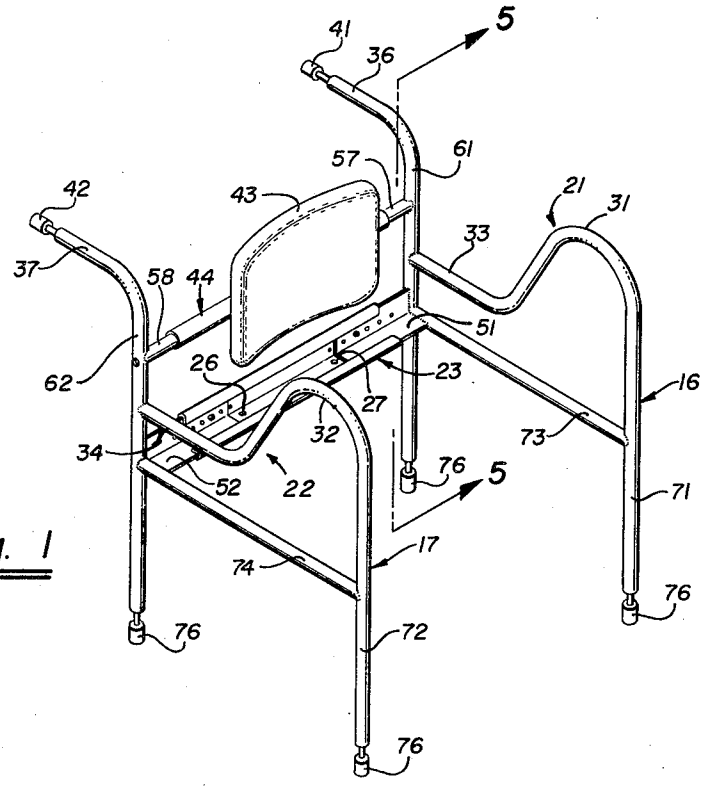


Fig. 1

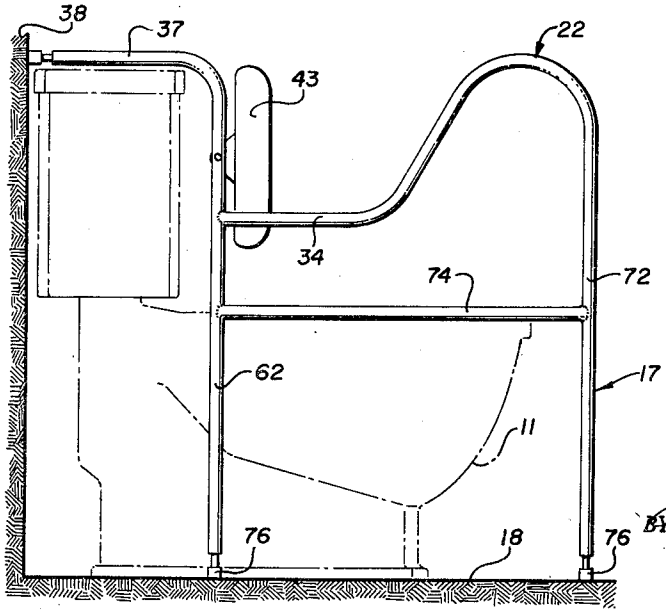


Fig. 2

INVENTOR.
John L. Grondona
BY Manfred B. Warren
His
Attorney

Aug. 7, 1962 J. L. GRONDONA 3,047,884

BODY ASSIST FOR TOILET SEAT

Filed Nov. 24, 1959 2 Sheets-Sheet 2

Fig. 3

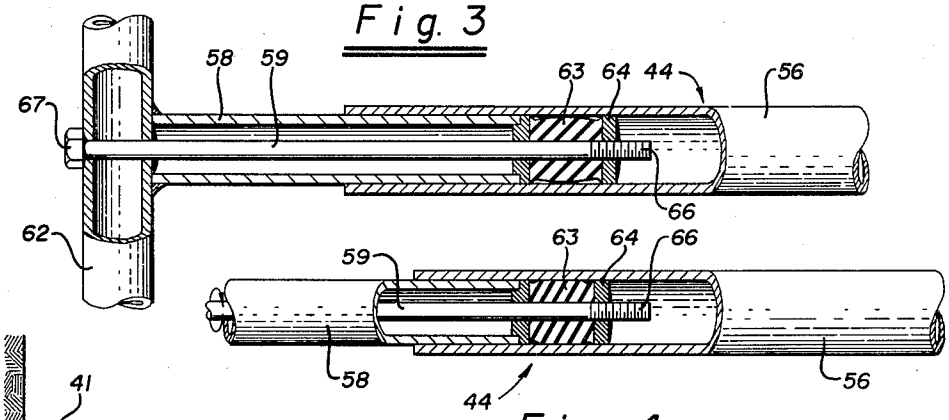


Fig. 4

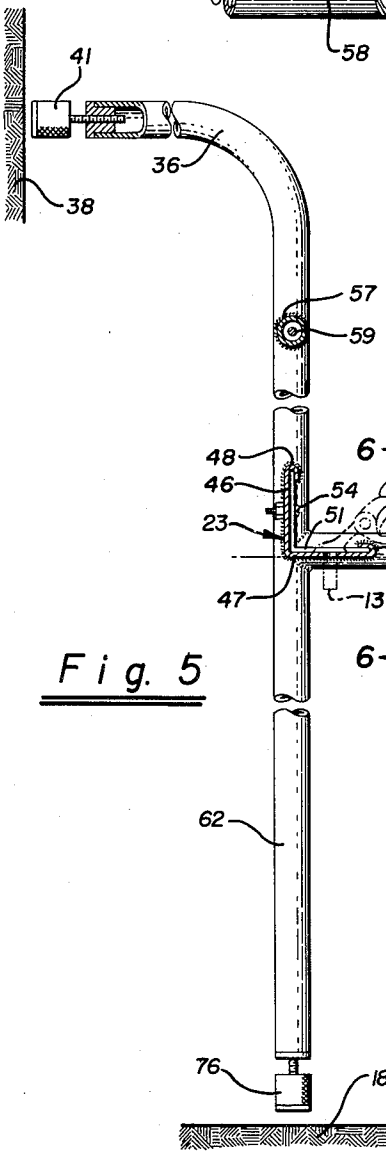


Fig. 5

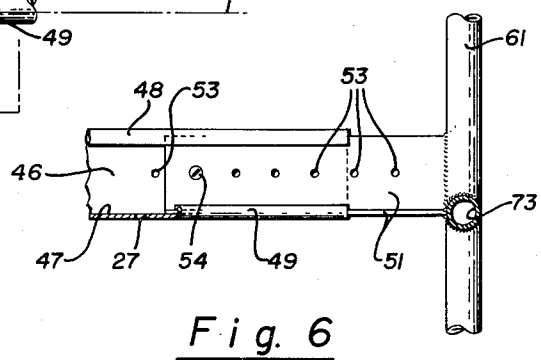


Fig. 6

INVENTOR.
John L. Grondona
BY Manfred M. Warren
His Attorney

United States Patent Office 3,047,884 Patented Aug. 7, 1962

3,047,884

BODY ASSIST FOR TOILET SEAT

John L. Grondona, 11076 San Pablo Ave., El Cerrito, Calif.

Filed Nov. 24, 1959, Ser. No. 855,147
2 Claims. (Cl. 4—254)

The invention relates to appliances such as bars and the like used in conjunction with a soilet for aiding persons who, due to illness, injury, loss of limbs or other infirmity desire or require assistance in lowering their body weight on to a toilet seat and in raising themselves therefrom.

An object of the present invention is to provide a body assist of the character described which is light in weight and portable in nature so as to permit its movement from place to place as required, and which will provide improved rigidity when set up on connection with a toilet, and will afford a convenient and full range of required adjustment to accommodate the device to toilets of different sizes.

Another object of the present invention is to provide a body assist of the character above which has an improved form in aiding and guiding the user in moving to and from the toilet seat.

The invention possesses other objects and features of advantage, some of which of the foregoing will be set forth in the following description of the preferred form of the invention which is illustrated in the drawings accompanying and forming part of the specification. It is to be understood however, that variations in the showing made by the said drawing description may be adopted within the scope of the invention as set forth in the claims.

Referring to said drawings (2 sheets):

FIGURE 1 is a perspective of a body assist for a toilet seat constructed in accordance with the present invention.

FIGURE 2 is a side elevation of the body assist with a typical toilet and floor and wall arrangement shown in conjunction therewith.

FIGURE 3 is a cut-away fragmentary sectional view showing one of the position adjusting means.

FIGURE 4 is a view similar to FIGURE 3, but showing an adjusting means in another position.

FIGURE 5 is a fragmentary vertical cross-sectional view of a rear section of the device taken substantially on the plane of line 5—5 of FIGURE 1.

FIGURE 6 is a fragmentary cross-sectional view taken substantially on the plane of line 6—6 of FIGURE 5.

The body assist of the present invention is adapted for use with a typical toilet having a bowl **11**, see FIGURE 2, surmounted by a seat **12** which has a connection **13** to the upper side **14** of the bowl, the body assist here utilizing this same connection for anchoring in place. As here shown, the body assist consists briefly of a pair of vertical side frames **16** and **17** adapted for resting upon the floor **18** on opposite sides of the toilet bowl **11** and which are provided with elevated hand grips **21** and **22** to aid the user in moving to and from the toilet seat **12**; and a transversely extending inter-connecting frame member **23** which is secured to and affords lateral support for the side frames **16** and **17**, and extends between the frames adjacent the elevation of and in superimposed relation to the upper bowl side **14**, and is secured to and anchored by the seat connection **13**. More particularly, the transverse member **23** is formed with openings **26** and **27** which are spaced for receiving therethrough the conventional studs providing connection **13** between the seat **12** and bowl **11**, the member **23** preferably being relatively flat so as to not materially affect the elevation of the seat **12**.

In providing an improved form for aiding and guiding the user in moving to and from the toilet seat, the side

frames are here formed with top hand engaging bars which provide the hand grips **21** and **22** above noted, and which are formed with relatively elevated forward portions **31** and **32** and relatively lower rearward portions **33** and **34** over the length of which the hands of the user may slide while embracing the bars, with the user being afforded a grip at any point along the length of the bars so as to not only guide the user in moving to and from the seat, but also to afford necessary arm power in lowering and elevating the body. The continuous fore and aft extension of these top rails **21** and **22** and their different fore and aft elevations as described, materially assist the user in getting the most advantage of the device. To further improve the rigidity of the device when assembled in place on a toilet, the side frames **16** and **17** are provided with rearwardly extending arms **36** and **37** for engaging in abutting relation to a rear wall **38** conventionally located behind the toilet. The arms **36** and **37** are preferably formed of tubular stock and their abutment against the rear wall **38** is desirably affected by abutment members **41** and **42** which may be threaded into the rearward ends of arms **36** and **37** to afford required fore and aft adjustment.

A back rest **43** is preferably provided for the support and comfort of the user and is here shown with transverse mounting means **44** therefor connected to the side frames **16** and **17**. As a further feature of the present invention, a full range of transverse adjustment is provided for accommodating the device to toilets of different width. As here shown, this transverse adjustment is accomplished by composing the transverse frame member **23** and the transverse mounting means **44** of a plurality of slidably attached sections permitting the desired transverse adjustment of the spacing between the side frames **16** and **17**. The transverse frame member **23** is assembled from an L-shaped section **46** providing the stud openings **26** and **27** in its bottom flange **47** and having the outer edge portions **48** and **49** formed of channel-shape so as to slidably receive therein the perpendicularly related flanges of angle members **51** and **52** secured, as by welding, to the side frames **16** and **17** and projecting horizontally perpendicularly therefrom. A plurality of transversely spaced and alignable openings **53** in the members **51** and **52** may be threaded by bolts **54**, see FIGURE 6, for securing the slidable sections in fixed transverse adjustment.

Mounting means **44** here consists of a tubular member **56** attached to the rear side of back rest **43** and which telescopically receives tubular studs **57** and **58** which are welded or otherwise secured to vertical posts **61** and **62** which form part of side frames **16** and **17**. An elongated bolt **59** is here mounted through each of the upright posts **61** and **62** and through the length of the studs **57** and **58** and are attached at their inner ends to expansion members **63**, see FIGURES 3 and 4. The latter may consist of rubber plugs which are mounted at the inner ends of the stud **57** and **58** and which are compressed by nuts **64** threaded onto the ends **66** of the bolts **59** so that upon turning of the heads **67** of the bolts, the plugs **63** may be expanded into tight fitting engagement with the inner wall of tube **56** to anchor the parts against lateral displacement.

The side frames **16** and **17** are preferably constructed in their entirety from sections of tubular stock. One length of tubing is here bent to provide a continuous forward vertical post **71** and **72** and top hand rail **21** and **22**. Another length of tubing is bent to provide the rear posts **61** and **62** and integrally connected rearwardly extending arms **36** and **37**. A third length **73** and **74** connects a front and rear post **71—61** and **72—62**. The angle members **51** and **52** may be conveniently set at the intersections of horizontal bars **73** and **74** and the rear vertical posts

61 and 62. Glides 76 with integral elongated shanks are preferably threaded into the lower ends of the four vertical posts 61, 62, 71 and 72 for obtaining necessary vertical adjustment to accommodate the device to toilets having different vertical dimensions particularly of the top surface 14 of the toilet bowl. The side frames and interconnecting frame members are preferably formed of rigid metal suitably finished for hospital use such as stainless steel or chrome finished steel. The bottom glides 76 and rear abutment members 41 and 42 may be finished of a softer material such as one of the tougher and more durable plastics to prevent scratching of the floors and walls in the toilet compartment.

I claim:

1. A body assist for a toilet having a bowl and seat mounted thereon by a stud comprising, a pair of vertical side frames adapted for resting on the floor on opposite sides of said bowl and having top fore and aft extending hand engaging bars relatively elevated forwardly and lower rearwardly of said side frames and being dimensioned for sliding embrace by the hands of the user for aiding and guiding the user in moving to and from said seat, said side frames having rearwardly extending arms for abutting a wall behind said seat, a transversely extending inter-connecting frame member secured to said side frames and having an opening for receiving therethrough said stud for anchoring said frame member in place, and a back rest and transverse mounting means therefor connected to said side frames, said transverse frame member and said mounting means being composed of a plurality of slidably attached sections permitting

transverse adjustment of the spacing between said side frames.

2. A body assist for a toilet having a bowl and seat mounted thereon by a stud comprising, a pair of vertical side frames adapted for resting on the floor on opposite sides of said bowl and providing elevated hand grips to aid the user in moving to and from said seat, a plurality of transversely inter-connecing frame members composed of a plurality of slidably attached sections permitting transverse adjustment of the spacing between said side frames and secured to and affording lateral support for said side frames, one of said frame members having an opening for receiving therethrough said stud for anchoring said frame member in place, and said side frames having top hand engaging bars which are relatively elevated forwardly and are each formed with a downward and rearward sloping medial portion and a relatively low horizontal rearward portion and over the length of which the hands of the user may slide and grip in aiding and guiding the user in moving to and from said seat.

References Cited in the file of this patent

UNITED STATES PATENTS

2,019,005	Erickson	Oct. 29, 1935
2,074,596	Short	Mar. 23, 1937
2,113,882	Galt	Apr. 12, 1938
2,481,382	Bennett	Sept. 6, 1949
2,773,542	Chasin	Dec. 11, 1956
2,903,714	Grondona	Sept. 15, 1959