United States Patent [19]

Thomas

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[54] **COMMODE CHAIR**

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[51] **Int. Cl.** **A47k 11/02,** A61g 7/02

[58] **Field of Search** 4/134, 1, 135, 138, 121, 4/122, 124, 127; 297/440, 443

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[57] **ABSTRACT**

A commode of the armchair type having a removable receptacle and an improved wire frame mounted on the seat portion of the commode for mounting the receptacle; the wire frame being interengaged with the seat portion of the commode so as to be substantially integral therewith, and thereby avoiding separation of the wire frame from the commode when the receptacle is lifted relatively to the supporting wire frame.

4 Claims, 5 Drawing Figures

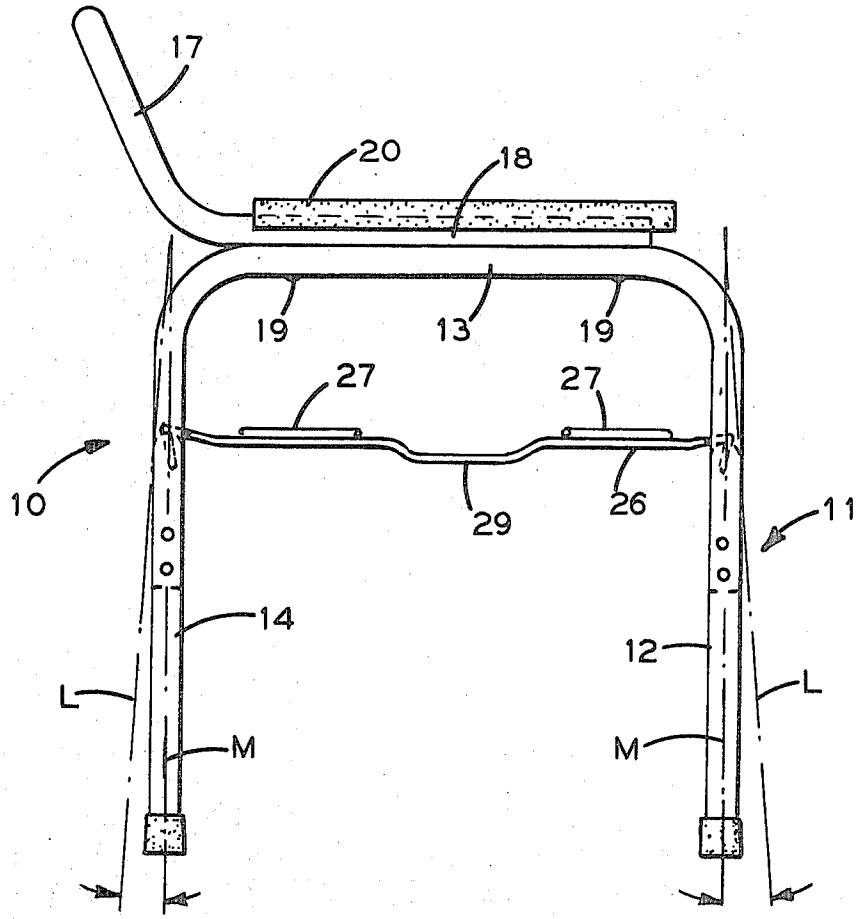


FIG. 1

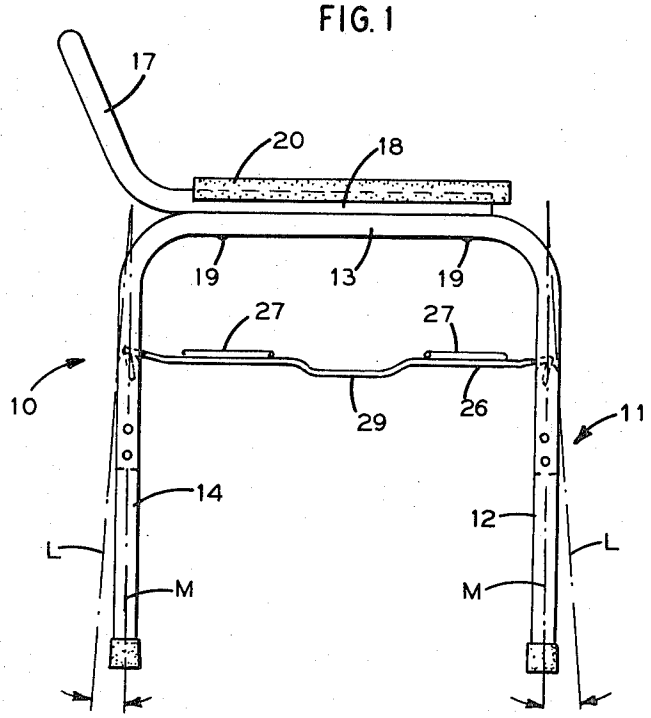


FIG. 2

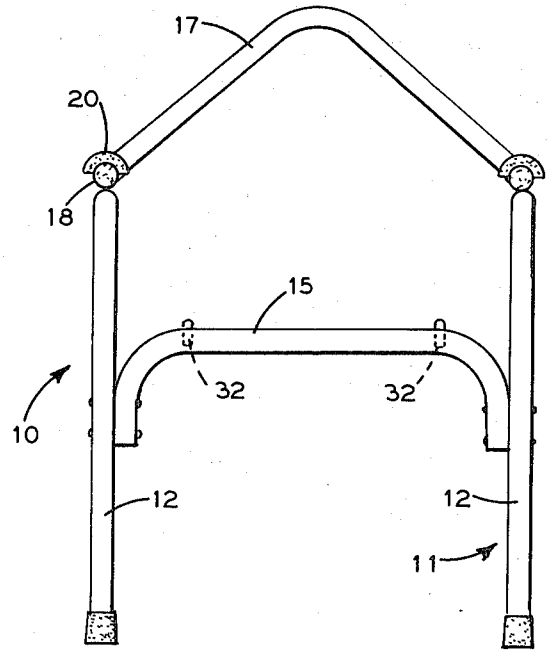


FIG. 3

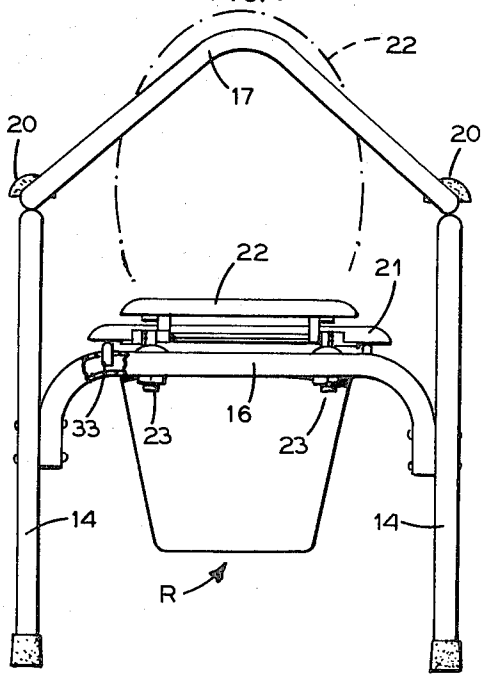


FIG. 4

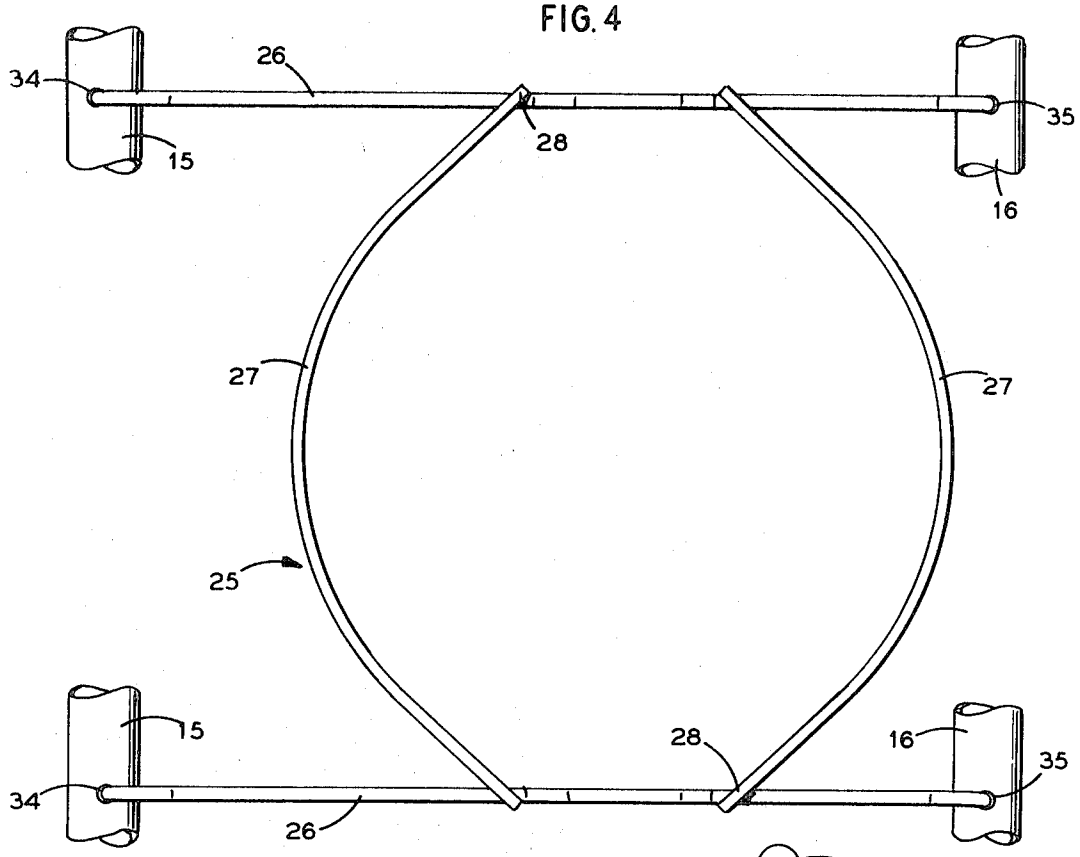
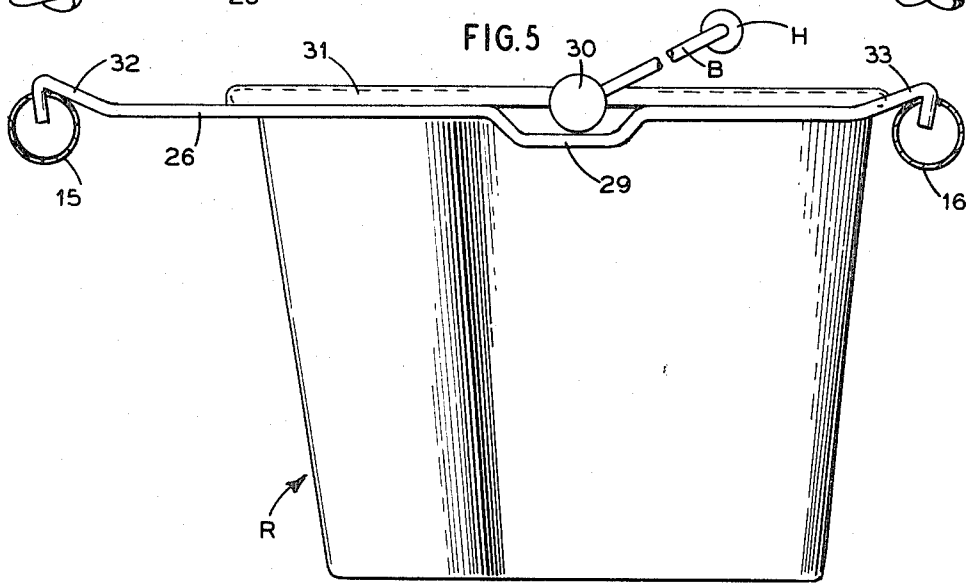


FIG. 5



COMMODE CHAIR

BACKGROUND OF THE INVENTION

Commodes of conventional structure, which include means for mounting thereon a removable respectacle present several problems. Thus, the weight of the user of the commode tends to cause a wedging action as between the receptacle and its support structure; thereby giving rise to some difficulties when separating the receptacle from its support.

Further, with conventional commodes, the structure thereof requires extensive use of tubular metal having adequate resistance to stresses arising from the weight of the user of the commode. This increases the weight of the commode structure and increases production costs.

Accordingly, an object of this invention is to provide an improved commode of the arm chair type which has a novel frame for mounting the usual removable receptacle on the commode.

Another object of this invention is to provide an improved commode of the character described, wherein the frame for mounting the removable receptacle is made of wire ; the same including linear portions adapted to engage at the opposite ends thereof forward and rear frame portions of the commode proper; the linear portions of the wire frame being under tension so as to exert a tight gripping action in respect of the forward and rear frame portions of the commode.

Still another object of this invention is to provide a commode of the character described wherein the front and rear frame portions of the commode are normally displaced relative to each other by a distance which is somewhat greater then the length of the linear portions of the wire frame whereby the front and rear frame portions of the commode must be squeezed together so that the opposite ends of the linear portions of the wire frame can reach and engage appropriate portions of the front and rear commode frames, thereby tensioning the linear portions of the wire frame.

Yet another object of this invention is to provide an improved commode of the character described, which by reason of the tensioned wire frame mounted thereon for removably receiving the usual receptacle; allows for reduced usage of tubular metal and where such tubing may be of lighter and cheaper metal.

Other objects of this invention will in part be obvious and in part hereinafter pointed out.

DESCRIPTION OF THE DRAWINGS

FIG. 1 is a side levational view of a commode embodying the invention; the toilet seat and cover being removed;

FIG. 2 is a front elevational view thereof;

FIG. 3 is a view similar to that of FIG. 2, and showing the toilet seat and cover mounted thereon;

FIG. 4 is a top plan view showing the wire frame for receiving the removable receptacle; and

FIG. 5 is a side elevational view thereof with parts in section, and showing the receptacle thereon.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

The commode of the instant invention includes chair structure comprising front and rear tubular metal leg portions, arm portions, a back portion; toilet seat and cover assembly mounted on the rear leg portions; and a hovel wire frame structure mounted on the front and rear leg portions for receiving the removable receptacle.

Thus, as shown in FIGS. 1 and 2, 10 designates a commode embodying the invention. The same includes a chair portion 11 formed of tubular metal suitably bent to provide front legs 12, side portions 13 and rear legs 14. The front legs 12 are interconnected by a combination brace and mounting member of inverted U shape, as at 15. The rear legs 14 are similarly interconnected by a combination brace and mounting member 16 of inverted U shape.

Further, chair portion 11 includes an inverted V shaped back member 17 of tubular metal, having forwardly extending arm portions 18 which overlie side portions 13 and are secured thereto by rivets 19. Arm rest members 20 overlie and are fixed to arm portions 18.

A conventional toilet seat-cover assembly including seat 21 and cover 22 are interpivoted and secured to brace member 16 by bolts 23.

The usual receptacle R is adapted to be mounted on mounting members 15, 16 of chair 11. To this end there is provided a ring member generally indicated at 25 which is formed of stiff wire of suitable gauge. Ring member 25 comprises a pair of similar, parallel linear members 26 and a pair of similar opposed arcuate members 27 which are welded at their ends 28 to linear members 26.

The midportions of members 26 are downwardly displaced horizontally to provide rest portions 29 for ears 30 of receptacle R which is received between arcuate members 27; the rim 31 of the receptacle R resting on arcuate portions 27. The opposite ends of linear members 26 are formed with downwardly extending hook portions 32, 33 which are received in openings 34 on member 15 and openings 35 in members 16.

It is understood that the linear members 26 of wire frame 25 have a length somewhat less then the normal spacing between legs 12 and 14 indicated by lines L, FIG. 1. However, if legs 12 and 14 are squeezed toward each other, the tubular frames having a degree of flexibility, so that legs 12 and 14 are closer together as indicated by lines M, FIG. 1; then hooked portions 32, 33 of members 26 can be inserted in openings 34, 35 of members 15, 16. Thus, wire frame 25 is under substantial stress by way of linear members 26 thereof, as legs 12, 14 tend to move toward their normal positions indicated by lines L.

It follows that with wire frame member 25 under substantial tension in its mounting on chair members 15, 16; the receptacle R can be easily lifted away from said frame member 25, and there is no jamming of the receptacle R in its mounting means and the same is lifted by its bail B and handle H.

The tensioned frame 25 in relation to the tubular supporting portions therefore, allows for minimal use of tubing in forming chair 11 and allows for lighter gauge metal to be used in making the tubular frame portions.

I claim:

1. A commode comprising a chair portion, and means on said chair portion for removably mounting a receptacle on said chair portion; said chair portion comprising front and rear tubular metal leg frames, said leg frames including a pair of front let portions and a pair of rear leg portions, horizontally extending brace

and mounting tubular member extending between said front leg portions and said rear leg portions, respectively, said receptacle mounting means comprising open wire frame means for receiving the receptacle, said wire frame means comprising portions engaging said brace means on said leg frames, said leg frames being constricted toward each other from their normal displaced positions to thereby place said wire frame portions under tension.

2. A commode as in claim **1,** wherein said wire frame means comprises a pair of linear portions in parallel relation, said linear portions terminating at their opposite ends in hook portions, said brace and mounting members being formed with spaced openings for receiving the respective hook portions of said linear members.

3. A commode as in claim **2,** said wire frame means firther including a pair of oppositely disposed arcuate members extending between said pair of linear portions, the opposite ends of said arcuate members being secured to said pair of linear portions.

4. A commode as in claim **2,** wherein the linear portions of said wire means comprises downwardly displaced central portions for receiving thereon ear portions of said receptacle.

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