

Dec. 13, 1960

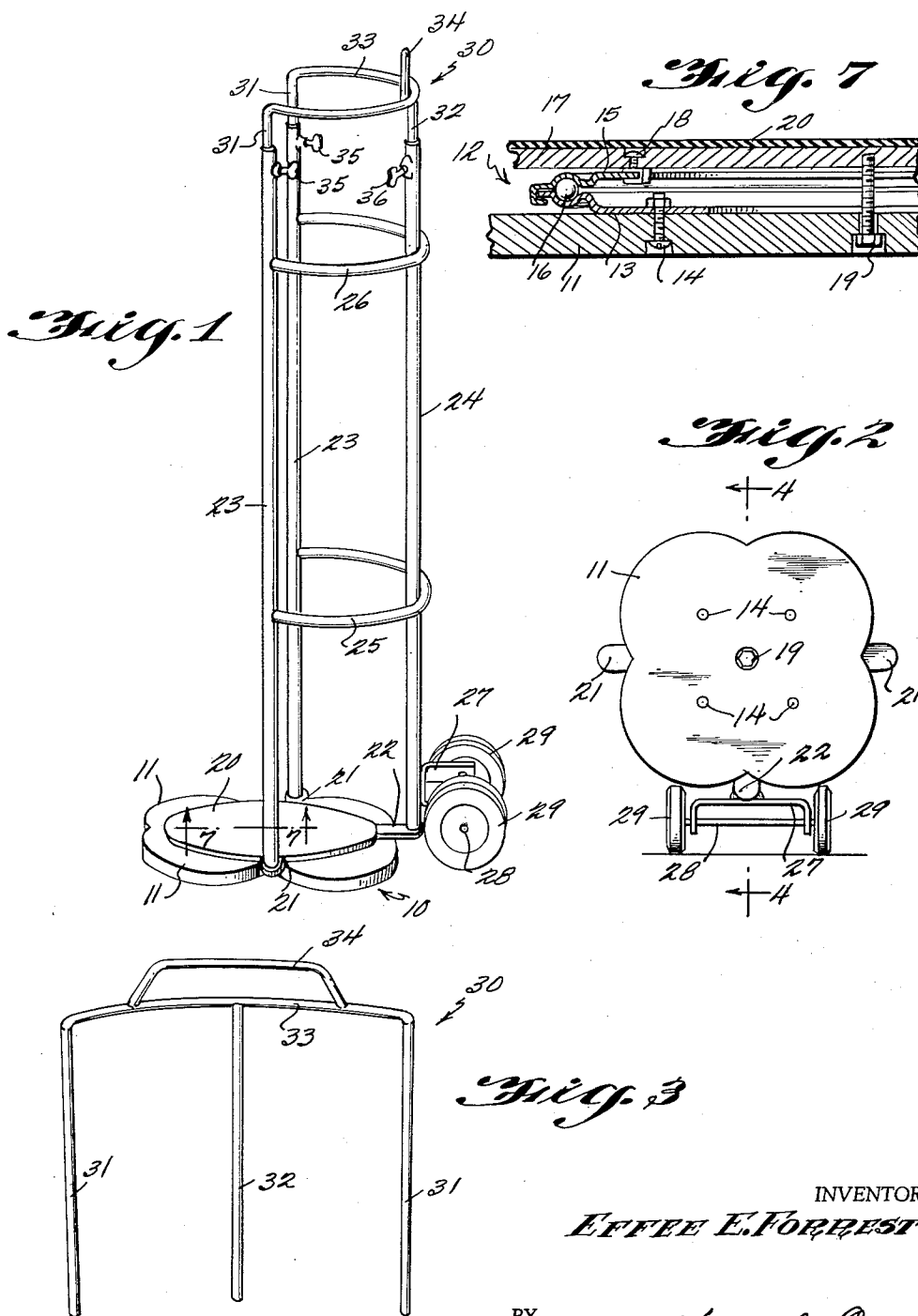
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2,963,713

INVALID TRANSFER APPARATUS

Filed March 3, 1959

2 Sheets-Sheet 1



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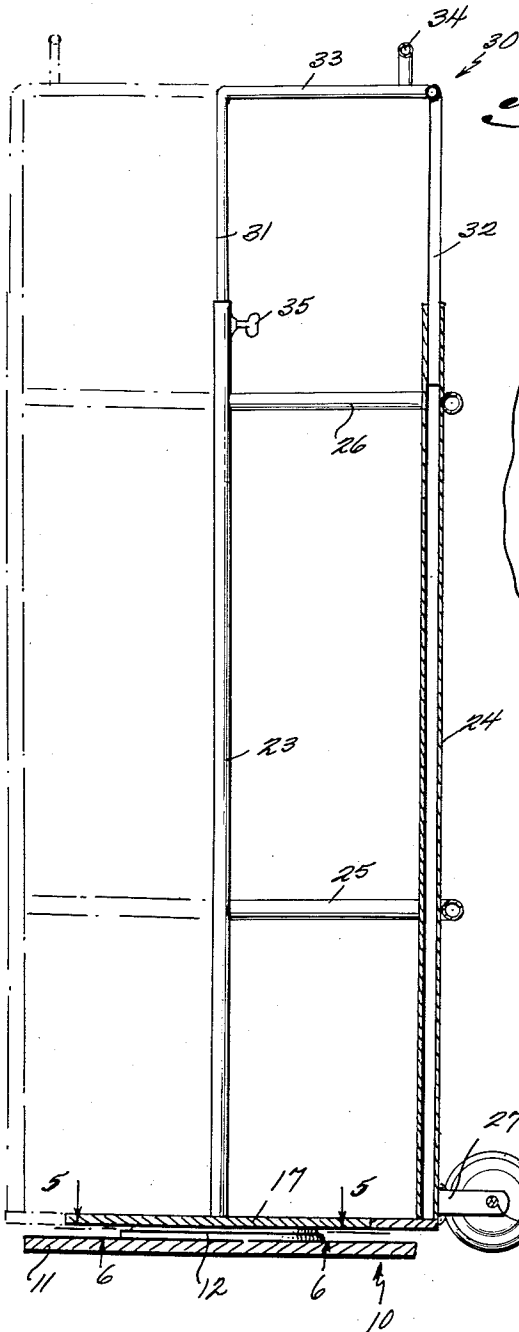


Fig. 4

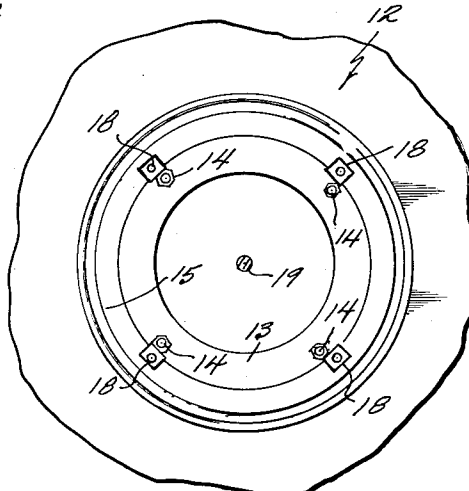


Fig. 5

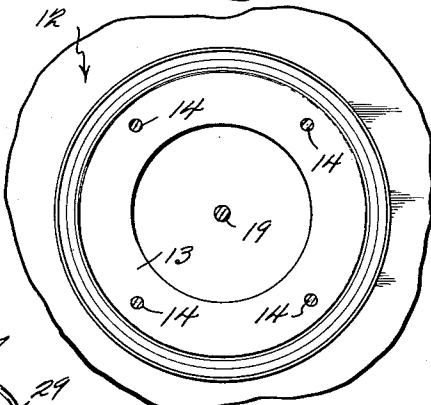


Fig. 6

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1 Claim. (Cl. 5—317)

The present invention relates to an invalid transfer apparatus and particularly to such apparatus which is portable.

The primary object of the invention is to provide an invalid transfer apparatus by means of which a disabled person may be transferred from bed to chair, from chair to walker, from walker to commode, and the reverse, without the necessity of the invalid moving about under his own power.

Another object of the invention is to provide an invalid transfer device of the class described above on which an invalid can be rotated when in a standing position to permit the invalid to be transferred from one point to another.

A further object of the invention is to provide a device of the class described above in which vertically adjustable means are provided for assisting in supporting the invalid in a standing position.

Other objects and advantages will become apparent in the following specification when considered in light of the attached drawings, in which:

Figure 1 is a perspective view of the invention;

Figure 2 is a bottom plan view of the invention;

Figure 3 is a perspective view of the support removed from the transfer apparatus;

Figure 4 is a fragmentary vertical sectional view taken on the line 4—4 of Figure 2, looking in the direction of the arrows;

Figure 5 is a fragmentary sectional view taken on the line 5—5 of Figure 4, looking in the direction of the arrows;

Figure 6 is a fragmentary sectional view taken on the line 6—6 of Figure 4, looking in the direction of the arrows; and

Figure 7 is an enlarged fragmentary vertical sectional view taken on the line 7—7 of Figure 1, looking in the direction of the arrows.

Referring now to the drawings in detail wherein like reference characters indicate like parts throughout the several figures, the reference numeral 10 indicates generally an invalid transfer device constructed in accordance with the invention.

The invalid transfer device 10 comprises a base plate 11 supporting centrally thereon a rotary bearing, generally indicated at 12. The rotary bearing 12 has a lower race 13 secured to the base 11 by bolts 14 and an upper race 15 supported above the race 13 by bearing balls 16. A platform 17 is supported on the race 15 and secured thereto by bolts 18 and is swivelly connected to the base 11 by a central bolt 19. The platform 17 has a mat 20 secured to the upper surface thereof forming a tread supporting the feet of the invalid.

The platform 17 has a pair of ears 21 extending outwardly therefrom on opposite sides thereof and a third ear 22 positioned intermediate the ears 21 and extending generally perpendicularly thereto.

A pair of upright tubular posts 23 have their lower ends rigidly secured to the ears 21 and are positioned in

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spaced apart parallel relation. A third post 24 extends parallel to the post 23 and has its lower end rigidly secured to the ear 22. The posts 23, 24 are of equal height and are rigidly connected by generally U-shaped horizontal cross-members 25, 26 arranged in spaced apart parallel relation.

A generally U-shaped horizontal bracket 27 is secured to the lower end of the post 24 and extends outwardly therefrom, supporting a horizontal axle 28 therein. A pair of wheels 29 are journaled on opposite ends of the axle 28 spaced slightly above the base 11 so that the transfer apparatus 10 can be tilted into position to be supported by the wheels 29 when moving the transfer apparatus 10 from place to place.

With the apparatus 10 in upright position, supported on the base 11, the wheels 29 are out of contact with the supporting surface.

In Figure 3, an upper section is indicated generally at 30 including a pair of spaced parallel standards 31 and an intermediate standard 32 arranged in laterally spaced parallel relation thereto. A generally U-shaped horizontal rod 33 integrally connects the upper ends of the standards 31, 32 and has an inverted U-shaped hand grip 34 integrally secured thereto. The standards 31 are telescopically mounted in the upper ends of the tubular posts 23 and the standard 32 is telescopically mounted in the upper end of the tubular post 24. The posts 23 are each provided with a set screw 35 adjacent the upper end thereof and the post 24 is provided with a set screw 36 adjacent the upper end thereof to clamp the standards 31, 32 in vertically adjusted position in the upper ends of the posts 23, 24, respectively.

In the use and operation of the invention, the apparatus 10 is moved on the wheels 29 to a point closely adjacent the bed of an invalid. The apparatus 10 is then arranged with the base 11 in contact with the floor and with the post 24 farthest from the bed. The patient from a sitting position on the side of the bed grasps the hand grip 34 and pulls himself erect with his feet supported on the platform 17. With the patient standing on the platform 17 and grasping the hand grip 34, the platform 17 is rotated with respect to the base 11 so that a wheel chair can be brought to the rear of the patient. The patient then sits down in the wheel chair and is moved therein to the desired location. To leave the wheel chair, the invalid places his feet on the platform 17 and stands erect and the device is rotated to permit the invalid to be seated on the edge of a bed, or other desired support.

The upper section 30 is vertically adjusted so that the hand grip 34 is at a level to most easily accommodate the invalid.

Having thus described the preferred embodiment of the invention, it should be understood that numerous structural modifications and adaptations may be resorted to without departing from the scope of the appended claim.

What is claimed is:

An invalid transfer apparatus comprising a base, a platform arranged in spaced parallel relation above said base, anti-friction bearings supporting said platform on said base for rotary movement thereon, a pair of vertical tubular uprights secured to said platform and extending upwardly from opposite sides thereof, a third upright positioned intermediately of said pair of uprights, each of said uprights being positioned exteriorly of the periphery of said platform, a pair of wheels secured rearwardly of said third upright, and extending to a point substantially level with the bottom of said base, whereby upon tilting of said apparatus the same may be wheeled, vertically spaced horizontally U-shaped bracing frame members rigidly connecting said uprights, an upper horizontally disposed U-shaped member having downturned end standards telescopically engaging in the upper ends of

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said pair of uprights, set screws means for fixing the position of said downturned standards relative to said uprights, and an inverted U-shaped handle member secured at its ends to said upper U-shaped member for facilitating movement of the device.

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