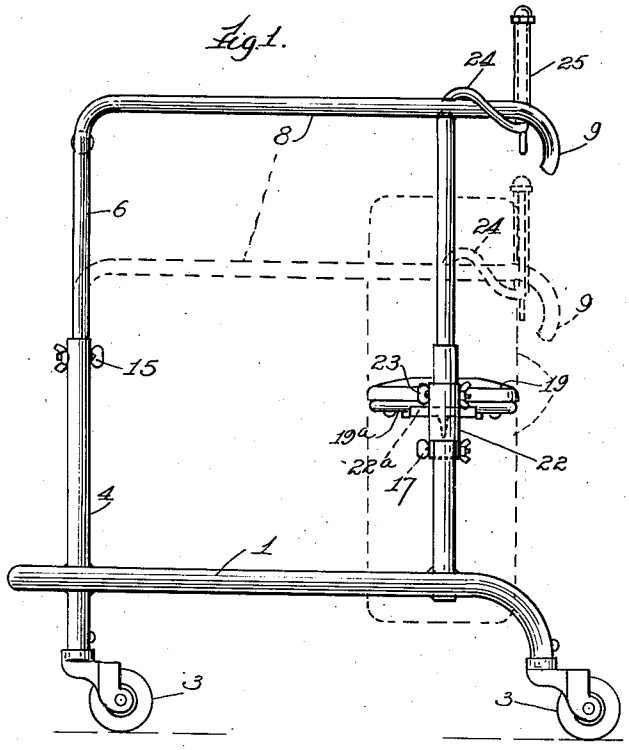
April 24, 1945. S. DUKE 2,374,182

INVALID WALKER

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Fig. 1.



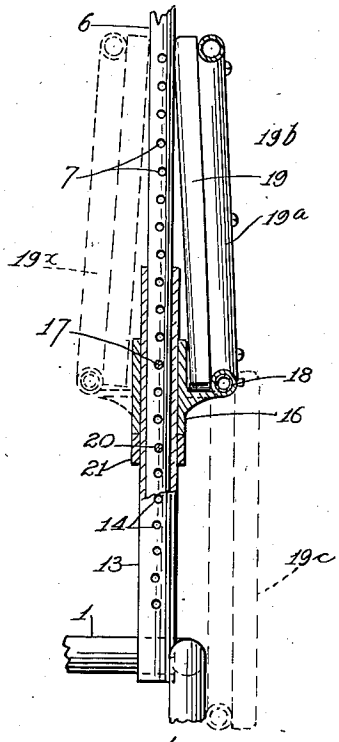


Fig. 4.

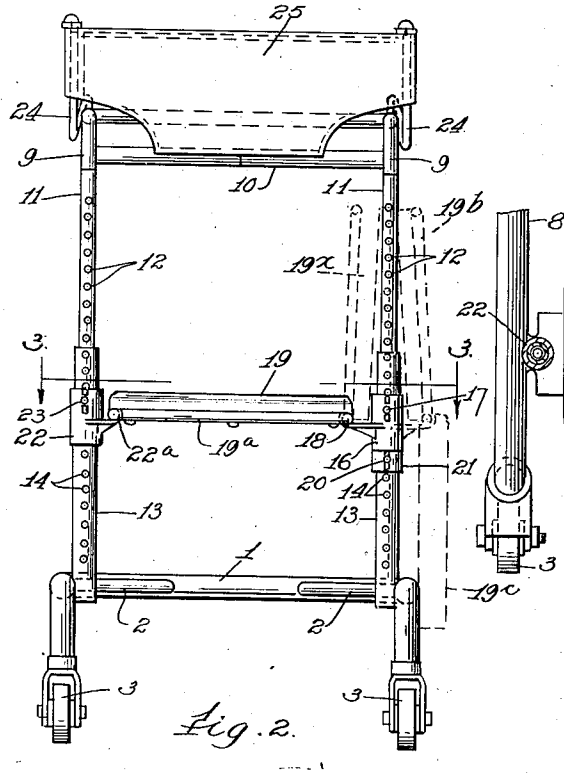


Fig. 2.

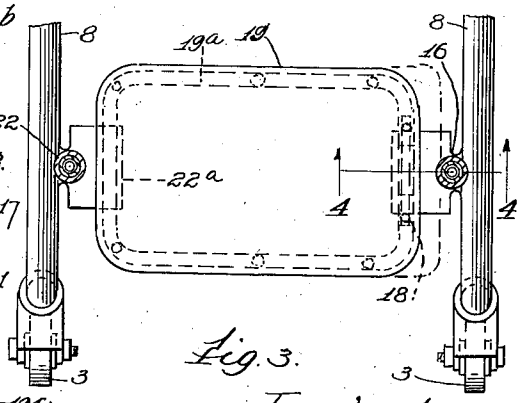


Fig. 3.

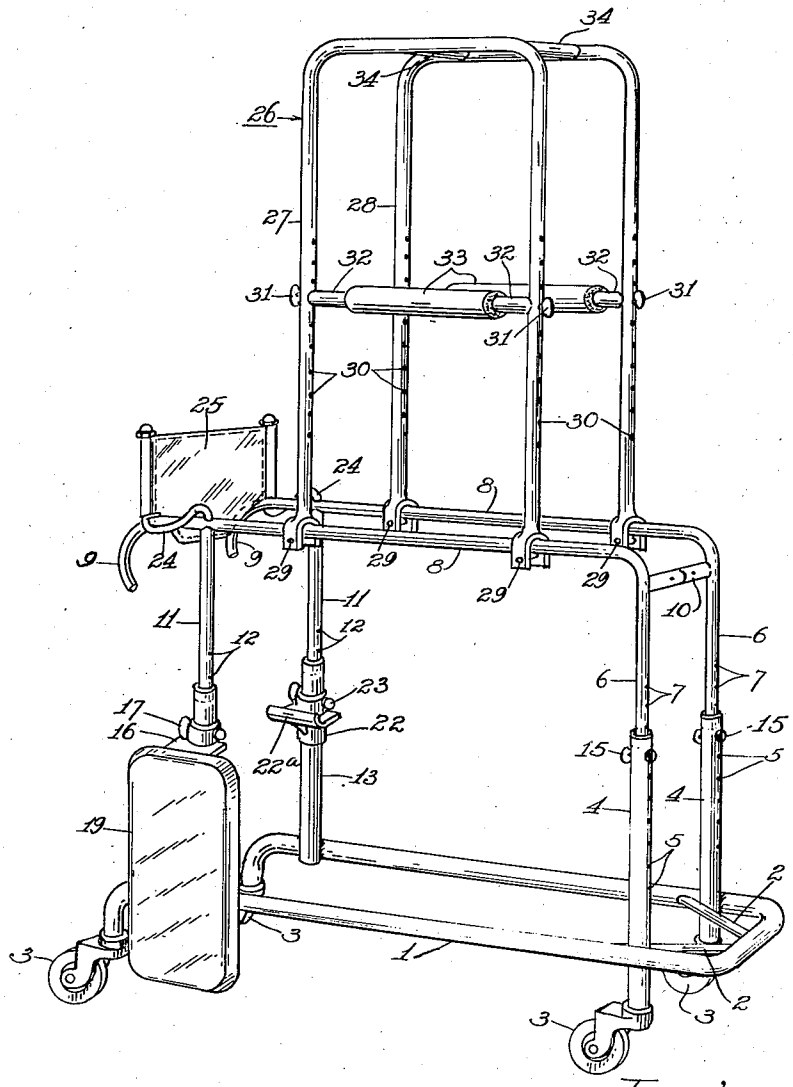
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Fig. 5.



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UNITED STATES PATENT OFFICE

2,374,182

INVALID WALKER

Sam Duke, Chicago, Ill.

Application March 16, 1942, Serial No. 434,915

5 Claims. (Cl. 155—22)

This invention relates to improvements in invalid walkers and its primary object is to provide a walker of simple compact construction that is readily propelled by the occupant and one that affords great comfort and convenience in use, that is adjustable to different heights and positions for the convenience of users whether tall, short, stout or thin and that in any adjusted position is capable of supporting a patient or user in standing, sitting, semi-reclining or other position that may be assumed, or while walking or exercising.

A further object is to provide a walker that is readily adjustable from one position to another and that in any position is strong, free from vibration or play of its parts, that is readily accessible so that the user may readily enter or emerge from the structure; one that is durable in use and inexpensive to manufacture.

A still further object is to provide an invalid walker so constructed as to support the user or patient in such position as to most conveniently permit the exercise of his limbs and muscles in small or great degree thus providing means enabling him to more readily overcome weakness and regain his health and bodily activity.

With the foregoing and other objects in view the invention consists in the combination and arrangement of parts to be hereinafter fully described, pointed out in the claims and illustrated in the accompanying drawings which form a part of this patent, and in which—

Fig. 1 is a view of the walker in side elevation, a second and third position of certain adjustable parts being denoted in dotted lines.

Fig. 2 is a rear end view of Fig. 1.

Fig. 3 is an enlarged horizontal cross sectional view through Fig. 2 taken on the line 3—3 and looking in the direction of the arrows.

Fig. 4 is a vertical sectional view through Fig. 3 on the line 4—4, looking in the direction of the arrows, and

Fig. 5 is a view in elevational perspective of a modified form of the walker.

Like reference characters denote corresponding parts throughout.

The walker includes a frame having a base 1 which in the present instance is of substantially U-shaped formation, the closed end being the forward end of the base and frame and being preferably connected to the base sides by the braces 2, the open end being downturned and provided with wheels 3. Connected to the base 1 near the closed end are the tubular posts 4 supported upon wheels 3, said posts being formed with spaced perforations 5, each post receiving one end of an angular rod 6 formed with perforations 7 similar to the tube perforations 5, said rods 6 having each an horizontally disposed portion 8 terminating in the downwardly disposed ends 9, said rods being connected at their vertical portions by the brace 10.

Inwardly from the downturned ends 9 the rod portions 8 are supported by the vertical rods 11 formed with perforations 12, said rods being telescopically received in the tubular posts 13 secured to said base 1 and formed with perforations 14 similar to perforations 12. Referring again to the posts 4 and rods 6 the perforations thereof are adapted to receive the bolts 15 whereby they are connected together in adjusted position.

Arranged upon one post 13 is a sleeve bracket 16 formed with perforations, similar to perforations 14, to receive the pin 17 that extends through the aligned perforations of said post and of the rod 11 to secure said post, rod and sleeve bracket in adjusted position. Connected to the arm of said sleeve bracket by the hinge 18 is the seat 19 formed marginally upon its under side with a tubular bead 19a and being movable through an arc of slightly more than 180 degrees. When the sleeve bracket 16 is not engaged by said pin, as when the same is withdrawn, said sleeve bracket rests upon and is supported for rotation by the collar 21 secured by bolt and wing nut 20 to said post 13. The sleeve bracket with seat 19 may now be oscillated or rotated about said post.

Received upon the other post 13 is the second sleeve bracket 22 formed with perforations to permit it to be secured by pin 23 to said post 13 and rod 11, said sleeve bracket receiving one end of the seat 19 in the horizontal or operative position of the same and having an upturned lip 22a to snap into engagement with said seat bead 19a to prevent seat play. Secured to the rods 11 by the rods 24 is the removable back 25. When the seat 19 is horizontally disposed and resting upon sleeve bracket 22 it may be occupied. It may also be raised to inside-the-frame dotted line position 19x, Figs. 2 and 4, out of the way to permit the user to more readily enter or leave the walker. When the sleeve bracket 16 and seat are moved into outside-the-frame position the seat may occupy the dotted line position 19b against the post 11, or dropped into dotted line position 19c thus providing a completely clear entrance to and exit from the frame.

Referring now to Fig. 5 a super-frame 26 is provided which is formed of two parallel spaced inverted U-shaped side members 27, 28 round in

cross section, the free ends of said members being bifurcated and engaging the rod portions 8 and secured thereto by pins 29 or the like, said side members being each formed with perforations 30 for selective engagement by the pins 31 threaded for engagement with the interiorly threaded recesses in the roundly recessed ends of the arm rest bars 32 adjustable vertically of the side members and each provided with a rubber sleeve or the like 33, the inverted bases of said side members being secured together by braces 34. In full line position, Figs. 1 and 2, the walker may be occupied by a person comfortably in sitting position and the vehicle propelled by the feet or it may be occupied by a person standing and the arms may be rested upon the arm portions 8 with the seat in full or dotted line position. In Fig. 5 the back may be removed and a person may then enter and rest his armpits upon the sleeves 33 while he grasps the rod portions 8 by hand. He may then walk very comfortably. By disposing the seat horizontally he may, obviously, assume a sitting posture when desired.

What is claimed is:

1. In an invalid walker, a frame including support posts, sleeve brackets carried by said posts, one of said sleeve brackets being adjustable about its post, and a seat carried by said last named sleeve bracket for disposal upon the other sleeve bracket in one position and for disposal selectively in raised positions within and without said frame, and for lowered position outside said frame.

2. In an invalid walker, a frame including support posts, a sleeve bracket arranged for rotation upon one post, a collar adjustably supporting said sleeve bracket thereupon, a second sleeve bracket upon an adjoining support post, and a seat hinged to said first named sleeve bracket for vertical movement and for disposal in one position upon said second sleeve bracket.

3. In an invalid walker, a frame including telescopically adjustable support posts, the topmost members of said telescopic posts at one end of the frame having portions disposed horizontally, a super-frame comprising inverted U-shaped twin portions having their frame ends bifurcated and releasably secured to the aforesaid horizontal end-post portions, braces connecting said super-frame portions, and arm rests adjustably carried by said super-frame.

4. In an invalid walker, a frame including a pair of support posts, a sleeve bracket carried by each of said posts, one of said brackets being rotatable upon its post, and a seat hinged at one end to said last named sleeve bracket and having its other end normally resting in horizontal operative position upon the other sleeve bracket, the point of hinge connection of said seat to said rotatable bracket being spaced laterally from its post whereby the seat may be swung upwardly about the hinge to rest against its post inside the frame or may be rotated about its post to a position outside said frame and turned on its hinge to either a raised or a lowered inoperative position providing clearance for exit from or entrance to the frame.

5. In an invalid walker, a frame including a pair of support posts, a sleeve bracket carried by each of said posts, one of said sleeve brackets being rotatable upon its post, and a seat hinged along one edge of said last named sleeve bracket, the point of hinge connection being spaced laterally from said post to permit said seat to be moved about its hinge into raised inoperative position beyond the vertical plane of said hinge connection toward said frame into gravity-retained engagement therewith or to be turned outside said frame and moved into a lowered inoperative position beyond said vertical plane with respect to said frame, the free end of said seat resting upon and supported by the other sleeve bracket when said seat is in its horizontal operative position.

SAM DUKE.