C. M. BORTON.

INVALID'S SUPPORT.

APPLICATION FILED OCT. 23, 1916.

1,250,086.

Patented Dec. 11, 1917.

2 SHEETS—SHEET 1.

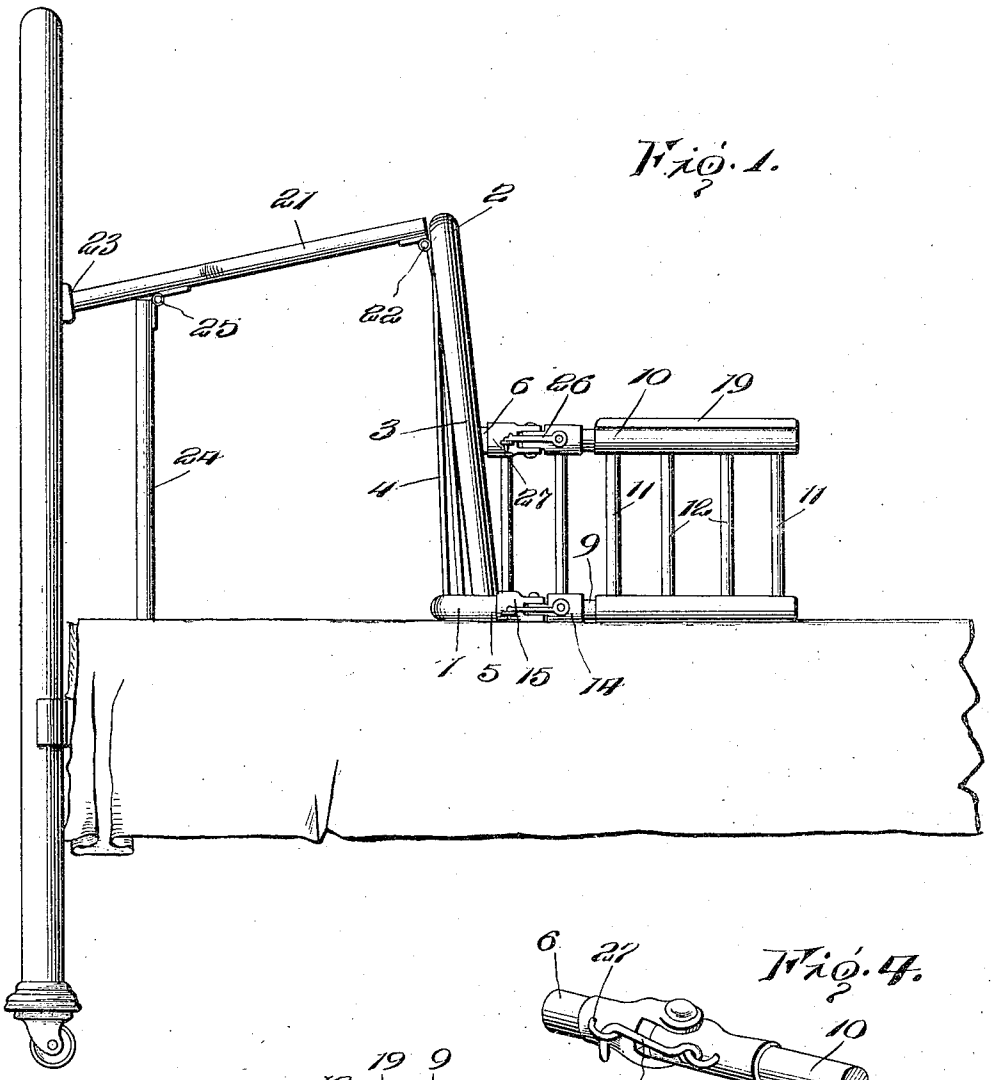


Fig. 1.

Fig. 4.

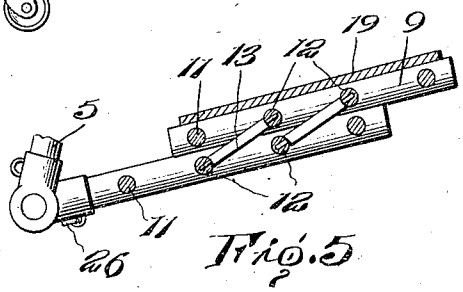


Fig. 5.

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2 SHEETS—SHEET 2.

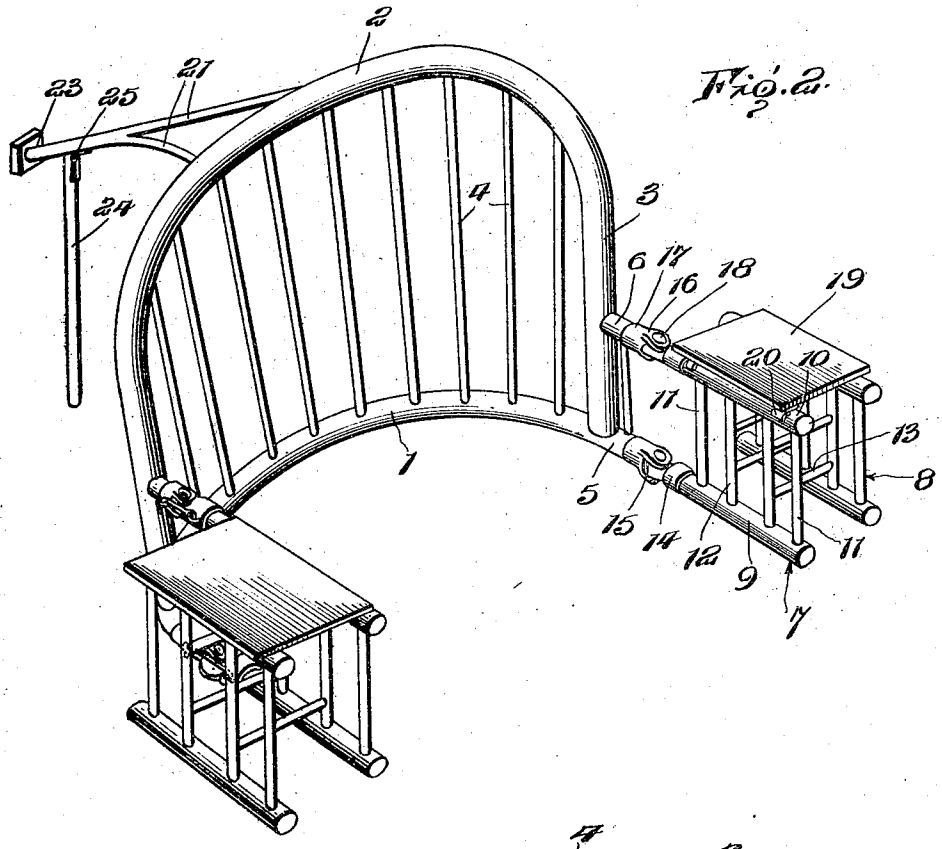


Fig. 2.

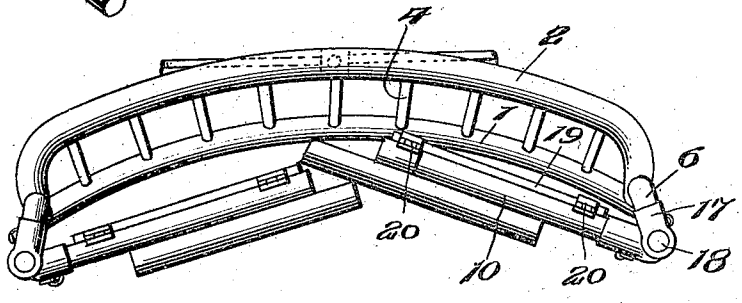


Fig. 3.

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UNITED STATES PATENT OFFICE.

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INVALID'S SUPPORT.

1,250,086. Specification of Letters Patent. Patented Dec. 11, 1917.

Application filed October 23, 1916. Serial No. 127,208.

To all whom it may concern:

Be it known that I, CARRIE M. BORTON, a citizen of the United States, residing at Huntsville, in the county of Madison and State of Alabama, have invented certain new and useful Improvements in Invalids' Supports, of which the following is a specification.

This invention relates to invalids' rests and more particularly to that class of such devices which are designed for disposal in a bed in position to support the invalid in upright position and it is one aim of the invention to provide a device of this class so constructed that when properly disposed in a bed, it will not be likely to overturn or become otherwise displaced so as to cause annoyance to the invalid.

Another aim of the invention is to provide an invalid's rest so constructed that the same may be folded into compact form and stored away when not in use. Incidentally, the invention aims to provide the device with arm rests which in the set up position of the device, will afford a maximum supporting area but which may be folded to compact form when the device is not to be used.

In the accompanying drawings,

Figure 1 is a side elevation of the device embodying the present invention in use,

Fig. 2 is a perspective view of the device in set up position,

Fig. 3 is a top plan view of the device folded,

Fig. 4 is a fragmentary perspective view illustrating one of the hinges for one of the arm rests of the device,

Fig. 5 is a horizontal sectional view through one of the arm rests folded.

The device embodying the present invention includes a back rest in the nature of a transversely curved frame having a bottom member 1 and a top 2, and side members 3, filler bars 4 being arranged within the frame to extend substantially vertically. To provide for the connection of the arm rests which will presently be specifically described, with the side members 3 of the back rest, the bottom member 1 has its ends extended forwardly beyond the said side members 3, as indicated by the numeral 5 and each side member is provided a suitable distance above its lower end with a forwardly extending projection 6.

Each of the arm rests comprises a pair of frame members one indicated in general by the numeral 7 and the other by the numeral 8. Each of these frame members comprises a lower rail 9 and an upper rail 10, the said rails occupying a common vertical plane and being arranged parallel to each other and connected and spaced by means of vertical bars 11 and 12. In the present instance, one of the bars 11 is arranged at the forward end of each frame and another at the rear end of each frame, the bars being secured at their upper and lower ends in the rails 10 and 9 respectively. However, for a purpose which will be presently explained, the ends of the bars 12 are mounted to turn in sockets in the rails 9 and 10. Cross bars 13 are secured at their ends to the bars 12 of the frame members 7 and 8 of each arm rest and extend between these said bars and serve to connect the frames in the manner shown in Figs. 2 and 5 of the drawings. It will now be understood that inasmuch as the bars 12 are mounted to turn, the frame 8 of each arm rest may be folded to position lying against the frame 7 in the manner clearly shown in Figs. 3 and 5 of the drawings, so that the arm rests will occupy but little space when the device is not in use. Fitted to the inner ends of the rails 9 and 10 are ferrules 14 each provided with a pintle lug 15 and these lugs are pivotally received between spaced pintle lugs 16 upon ferrules 17 which are fitted to the projecting ends 5 of the bottom member 1 of the back rest and to the projection 6. Pivot pins 18 are fitted through the pintle lugs and in this manner, the arm rests are foldably connected with the sides of the back rest and may be swung to supporting position as shown in Figs. 1 and 2 of the drawings or, when the device is not in use, may be swung to position lying within the concavity of the back rest as shown in Fig. 3. In order that the arm rests may afford a maximum supporting area upon which the invalid may rest his arms or upon which trays or books may be conveniently placed and firmly supported, a table 19 is hinged at one edge as at 20 to the rail 10 of the frame 7 of each arm rest and when the device is in use, may be swung to position resting adjacent its opposite edge upon the rail 10 of the frame 8 of the said arm rest. When the device is not in use, the table 19 may be

swung down to occupy a position beside the frame 7 of the arm rest as shown in Figs. 3 and 5 of the drawings.

In order that the back rest may be firmly supported in upright position within the bed, a brace is connected with the back rest and this brace includes forwardly diverging arms 21 which are hingedly connected as at 22 to the top member 2 of the frame of the back rest. At their rear ends, the arms 21 merge and fixed to the extremity of the brace is a pad 23 which is designed to be disposed against the head-board of the bed in which the device is positioned in the manner shown in Fig. 1 of the drawings. When the brace is in the position shown in Fig. 1, it will firmly support the back rest in upright position and the invalid may rest against the said back rest without any fear of the same collapsing or becoming displaced. In order to support the brace 21 in the position shown in Fig. 1 of the drawings and positively insure against dropping of the brace, a supporting standard 24 is hinged at its upper end as at 25 to the brace near the rear end thereof and is designed to rest at its lower end upon the surface of the bed as shown in Fig. 1 of the drawings.

In order that the arm rests of the device may be held against displacement while the device is in use, hooks 26 are connected with the ferrules 14 and are designed to be engaged with keeper eyes 27 carried by the respective ferrules 17 in the manner shown in Fig. 4 of the drawings.

Having thus described the invention, what is claimed as new is:

1. In a device of the class described, a back rest, an arm rest foldably connected with one side of the back rest to swing laterally relative to the back rest, the said arm rest comprising foldably connected frame members relatively movable in a horizontal plane, and a table extending longitudinally of the arm rest and hinged thereto to swing in a vertical plane.

2. In a device of the class described, a back rest, an arm rest including a frame connected with the back rest at one side thereof, a member mounted in the frame for turning movement, a second frame, a member mounted in the second frame for turning movement, rigid means connecting the said turning members, and a table arranged to span and be supported by the said frames.

3. In a device of the class described, a back rest, a frame including upper and lower members hingedly connected with the back rest at one side thereof, frame bars connecting the first-mentioned members, one of said frame bars being arranged for turning movement, a second frame including upper and lower members and bars connecting the same, one of which bars is arranged for turning movement, means connecting the turning bars of the two frames whereby the second-mentioned frame may be moved to position lying against the first-mentioned frame and to position spaced therefrom, and a table leaf hingedly connected with the upper member of the first-mentioned frame and movable to rest at its free side upon the upper member of the second-mentioned frame and to position lying against the side of the first-mentioned frame.

In testimony whereof I affix my signature.

CARRIE M. BORTON. [L. S.]

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."