DON CARLOS TRAVIS.

HOSPITAL BED.

APPLICATION FILED FEB. 1, 1918.

1,297,043. **Patented Mar. 11, 1919.**

Fig. 1

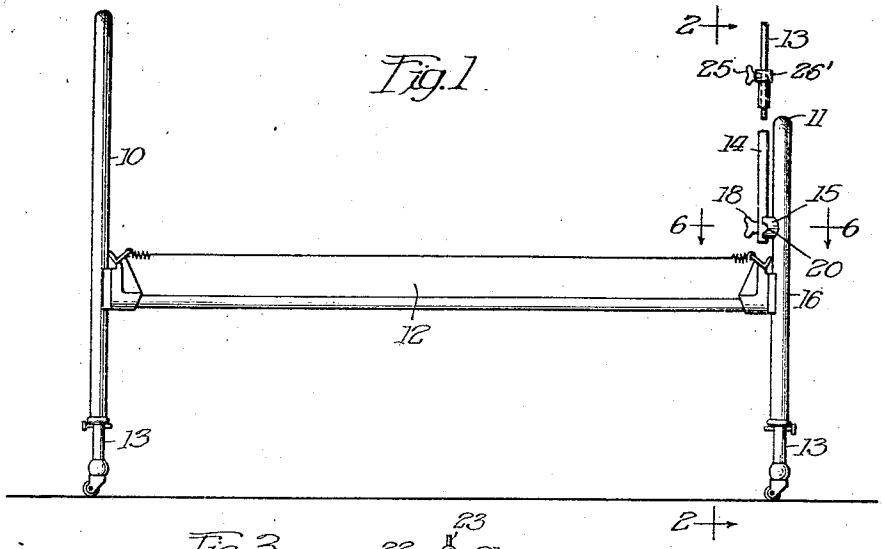


Fig. 3

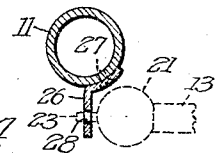


Fig. 4

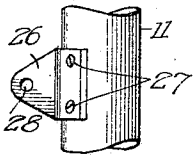


Fig. 2

Fig. 5

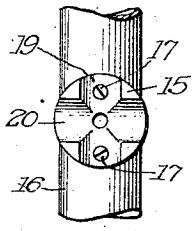
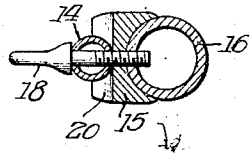


Fig. 6



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UNITED STATES PATENT OFFICE.

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HOSPITAL-BED.

1,297,043. Specification of Letters Patent. Patented Mar. 11, 1919.

Application filed February 1, 1918. Serial No. 214,883.

To all whom it may concern:

Be it known that I, DON CARLOS TRAVIS, a citizen of the United States, residing at Kenosha, in the county of Kenosha and State of Wisconsin, have invented certain new and useful Improvements in Hospital-Beds, of which the following is a specification.

My invention relates to improvements in hospital beds, and has particular reference to an attachment for supporting a tank of irrigating fluid, such as is employed for antiseptic purposes according to modern hospital practice.

The principal objects of the invention are to provide a support for the irrigating apparatus so organized that it may be extended to ample height when in use, while it may be folded down into an inconspicuous position when it is not desired to use the irrigating device; to provide an improved arrangement whereby the irrigating tank support may be employed as a "fracture" bar when it is in folded position; to provide an improved arrangement by which the said support may be quickly and conveniently adjusted in folded or extended position and in general, to provide an improved construction of the character referred to.

In the drawings which illustrate a preferred embodiment of my invention, Figure 1 is a side elevation of a hospital bed equipped with my invention, the supporting rod being shown in vertical or extended position.

Fig. 2 is a section taken on the line 2—2 of Fig. 1.

Fig. 3 is a section taken on the line 3—3 of Fig. 2.

Fig. 4 is a side elevation of the rod tip support.

Fig. 5 is an end elevation of the pivot block and Fig. 6 is a section taken on the line 6—6 of Fig. 1.

The hospital bedstead to which my invention is shown applied, may be of any approved design. In the present instance I have shown a metal bedstead of the continuous post type having a head end 10, a foot end 11, and a spring 12, the frame of the said spring 12 also constituting the side rails of the bedstead. If desired the bedstead may be equipped with telescopic extension legs such as 13, and with an adjustable back-rest which, however, is not shown or described since general structural features form no part of my present invention.

The tank support which comprises a hollow standard 14 in which may be telescopically adjusted an extension rod 13, is supported when in upright position at its lower end by means of a pivot block 15, one side of which is conformed to fit the tubular post 16 of the foot end 11 as shown best in Fig. 6. The said pivot block 15 may be screwed to the post 16 by a pair of flat head screws 17 as shown in 17 in Fig. 5, and is threaded centrally to receive a thumb screw 18 which extends horizontally through a circular diametric aperture in the pipe 14. The outer face of the pivot block 15 is formed with a vertical extending groove 19 and an intersecting horizontal groove 20, both of said grooves being arranged to fit the surface of the lower pipe 14, so that when the screw 18 is tightened up the supporting standard 14 is rigidly maintained in horizontal or vertical position as the case may be.

On the upper end of the extension rod 13, and by means of a cast joint comprising the ball 21, there is secured a hook 22 having an extension tip 23 in line with the axis of the rod 13. The hook 22 constitutes a convenient support for the tank 24 of irrigating fluid which may be adjusted to the proper height by means of a thumb screw 25 threaded into a collar 26 secured to the upper end of the lower pipe 14.

When the device is not required for irrigating purposes it may be folded across the end of the bed below the top of the bed clothes and is practically invisible in such folded position. Such folding is accomplished by first loosening the adjusting screw 25 whereupon the rod 13 may be telescoped into the lower pipe 14 after which the thumb screw 18 is slacked off sufficiently to permit the rods to swing down into the dotted line position shown in Fig. 2. When the rods are in the said horizontal or dotted line position the thumb screw 18 is again tightened so as to securely hold the pivotal end of the rod 14.

Special means are provided to rigidly lock the tip end of the supporting rod so as to prevent the parts from shaking, or becoming damaged through accidental displacement. Such locking means comprises a small bent strap lug 26 secured to the bed post by means of a pair of flat head screws 27, said lug 26 being perforated as shown at

28 in order to receive the tip 23 on the end of the extension rod 13. After the tip 23 has been inserted in the aperture 28 by sliding out the extension rod 13, the same may be locked securely in position by tightening the thumb screw 26.

It will be observed that when the rods 13 and 14 are locked into the horizontal dotted line position shown in Fig. 2 they may be advantageously employed to take the place of what is known in hospital parlance as a fracture bar.

Inasmuch as certain details of the described embodiment may be changed without sacrifice of efficiency to suit individual needs and requirements it should be understood that such detailed description is in no sense a limitation upon my invention, the scope of which should be determined by reference to the appended claims.

I claim:—

1. In a receptacle-supporting device for a bed frame, a standard, an alining-block mounted on the frame and provided with a vertical groove and a horizontal groove, a contact-block provided with a groove, a bolt traversing the contact-block, the standard and alining block and having a threaded connection with the frame, said bolt being adapted to be rotated for pressing the standard in the vertical groove of the alining-block for sustaining the standard in an upright position when the receptacle engages the standard, and adapted to be rotated for pressing the standard in the horizontal groove of said alining-block for sustaining the standard in a horizontal position when the receptacle has been removed therefrom.

2. In a receptacle-support for a bed frame, said frame being provided with a vertical groove and having a horizontal groove intersecting the vertical groove, a tubular, transversely apertured standard having a transverse curvature conforming substantially to the transverse curvature of the grooves, a bolt engaging the frame and disposed in the transverse apertures of the standard and adapted to have a rotatable movement for pressing the standard within the horizontal groove of the frame to support the standard in a horizontal position and adapted to be rotated for pressing the standard within the vertical groove of the frame to maintain the standard in an upright position for supporting a receptacle thereon.

3. In a receptacle-support for a bed frame, said frame having a part provided with a bracket and having a part provided with a vertical groove and a horizontal groove intersecting the vertical groove, a tubular, transversely apertured standard having a transverse curvature conforming substantially to the transverse curvature of the grooves, a rod provided with a detent and mounted in the bore of the tubular standard, means to adjust the rod longitudinally of said standard, a bolt engaging the frame and disposed in the transverse apertures of the standard and adapted to have a rotatable movement while the standard is engaging the bracket for maintaining the standard in a horizontal position, and adapted to have a rotatable movement for pressing the standard within the vertical groove of the frame to maintain the standard and its rod in an upright position for supporting a receptacle on the detent of said rod.

4. In a receptacle-support for a bed-frame, said frame being provided with a vertical groove and having a horizontal groove intersecting the vertical groove, a cylindrical, apertured standard having a transverse curvature conforming substantially to the curvature of the grooves, an apertured contact-piece having a concaved part, a bolt disposed in the apertures of the contact-piece and standard and adapted to have a revoluble movement for pressing the standard within the concaved part of the contact-piece and horizontal groove of the frame for supporting the standard in a horizontal position, and adapted to have a revoluble movement for pressing the standard within the concaved part of the contact-piece and vertical groove of the frame to maintain the standard in an upright position for supporting a receptacle thereon.

5. In a bedstead, the combination of an end frame, a standard provided with a projection at one end thereof, a pivotal support for the other end of said standard located at one side of the said end frame, means at the other side of the end frame for receiving the projection when the latter is moved outwardly substantially horizontally in a direction endwise of the axis of the standard and clamping means for preventing inward movement of said projection.

6. In a bedstead, the combination of an end frame, a rod provided with a telescopic extension, a pivotal support for the end of said rod remote from the extension and located at one side of said end frame means on the other side of said end frame and provided with an aperture for receiving the outer end of said extension when the latter is slid outwardly of the rod in a substantially horizontal direction, and means for preventing telescopic movement of said extension.

In testimony whereof, I have signed my name this 29th day of January, 1918, at Kenosha, Wisconsin.

DON CARLOS TRAVIS.

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