M. W. ROSENSHINE.

PNEUMATIC SUPPORT FOR STRETCHERS AND BEDS.

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1,275,306.

Patented Aug. 13, 1918.

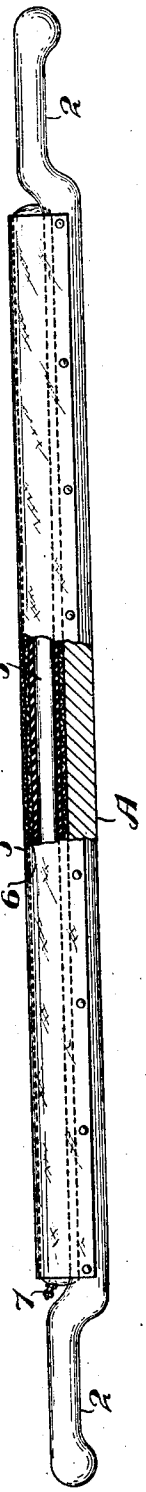


Fig. 1.



Fig. 2.

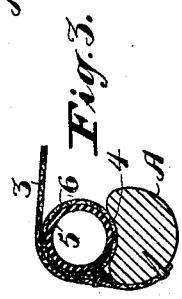


Fig. 3.

WITNESS:

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PNEUMATIC SUPPORT FOR STRETCHERS AND BEDS.

1,275,306. Specification of Letters Patent. Patented Aug. 13, 1918.

Application filed October 24, 1917. Serial No. 198,220.

To all whom it may concern:

Be it known that I, MORRIS W. ROSENSHINE, a citizen of the United States, residing at the city and county of San Francisco and State of California, have invented new and useful Improvements in Pneumatic Supports for Stretchers and Beds, of which the following is a specification.

This invention relates to a pneumatic support for stretchers, beds, and the like.

One of the objects of the present invention is to provide a resilient support for canvas bottoms, such as are employed in connection with stretchers, sleeping cots, bunks, and the like, and particularly an inflatable tube which may be interposed between the rails or bars in the canvas bottom to present a yielding edge and support for the canvas bottom. Another object of the invention is to provide a protective covering for the inflatable tube and also to provide means for securing it against displacement when employed. Further objects will hereinafter appear.

The invention consists of the parts and the construction and combination of parts as hereinafter more fully described and claimed, having reference to the accompanying drawings, in which—

Figure 1 is a side elevation of a standard form of stretcher partly in section, showing the application of the invention.

Fig. 2 is an enlarged cross section of same.

Fig. 3 shows a protective covering for the pneumatic tube which is sewed or otherwise secured to the canvas bottom.

Referring to the drawings in detail, A indicates the carrying bars of a standard form of stretcher, 2 the handles and 3 the canvas bottom supported thereby. The upper sides of the bars are in this instance grooved or concaved, as shown at 4, for the reception of a rubber tube 5. This tube is preferably inclosed in a canvas covering 6 which may be entirely separated from the bottom 3 or may be sewed as an integral part thereof, as shown in Fig. 3. The tube 5, interposed between the rail and the canvas bottom forms a resilient support therefor. It also forms a padding which protects the patients from bumping against the bars, for instance, when being carried to or transported in an ambulance.

While the pneumatic tubes are here shown as employed in connection with a stretcher, I wish it understood that they are equally applicable to sleeping cots, bunks, and the like as they, in that instance, not only form an ideal resilient support for the canvas bottoms employed but they also form a comfortable seat, as the inflatable tubes interposed between the sides of the bunks and the bottom form an ideal rounded pad or cushion which entirely removes the objectionable corners and hard edges generally presented.

Each tube may be provided with an inflating valve, generally shown at 7, and practically any degree of resiliency may thus be obtained merely by increasing or decreasing the amount of inflation.

The materials and finish of the several parts of the device may otherwise be such as the experience and judgment of the manufacturer may dictate.

I wish it understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claims, and that I do not wish to limit myself to the specific design and construction here shown.

Having thus described my invention, what I claim and desire to secure by Letters Patent is—

1. The combination with the carrying bars of a stretcher and a canvas bottom secured thereto, of a canvas tube secured to each side of the canvas bottom in alinement with the top edges of the bars and extending from end to end thereof, and an inflatable, flexible tube adapted to be received by each canvas tube.

2. The combination with the carrying bars of a stretcher and a canvas bottom secured thereto, of a pneumatic tube interposed between the top edge of each bar and the canvas bottom, said tubes extending from end to end of the carrying bars, and means preventing lateral displacement of the tubes with relation to the bars.

3. A stretcher comprising a pair of carrying bars, said bars being concaved on their upper sides, a canvas bottom secured to the rails, and a pneumatic tube adapted to be received by the channel portions of the bars interposed between the bars and the canvas bottom.

4. The combination with a canvas bottom and a pair of rails for supporting same, of a pneumatic tube interposed between

each rail and the canvas bottom, and a flexible protective covering for each tube.

5. The combination with a pair of bed rails, each having a groove formed in its upper edge, of a canvas bottom secured to the exterior sides of the rails and passing over the channeled upper edges of the rails, and a pneumatic tube adapted to be received by each channel groove and interposed between the canvas bottom and the top of each rail.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

MORRIS W. ROSENSHINE.

Witnesses:
JOHN H. HERRING,
W. W. HEALEY.

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