Nov. 12, 1935. L. W. WILLIAMS 2,020,754

BACK REST FOR COTS

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Fig. 1.

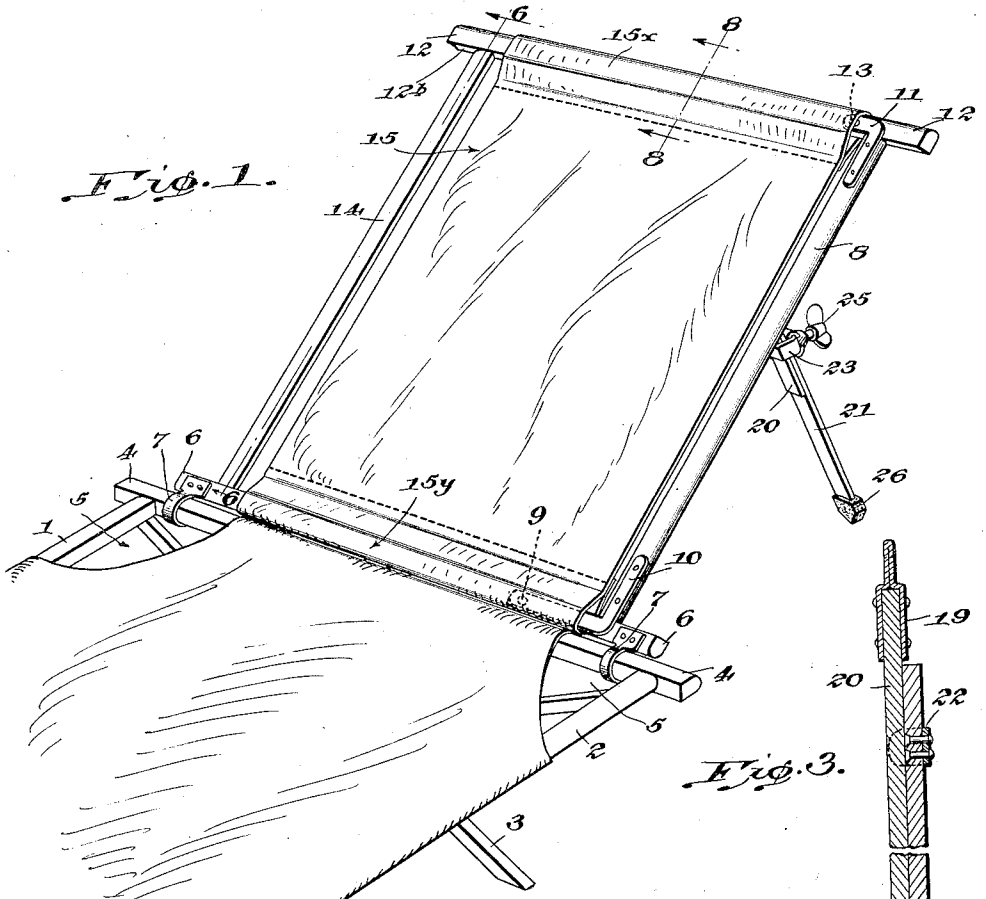


Fig. 3.

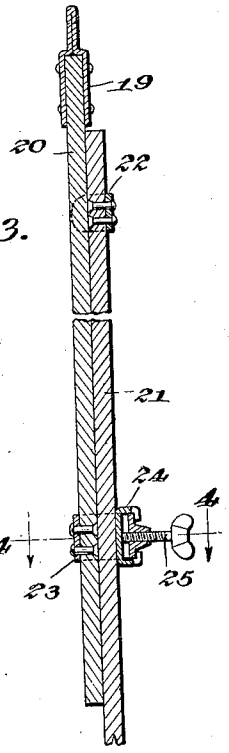


Fig. 4.

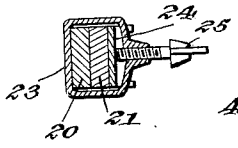
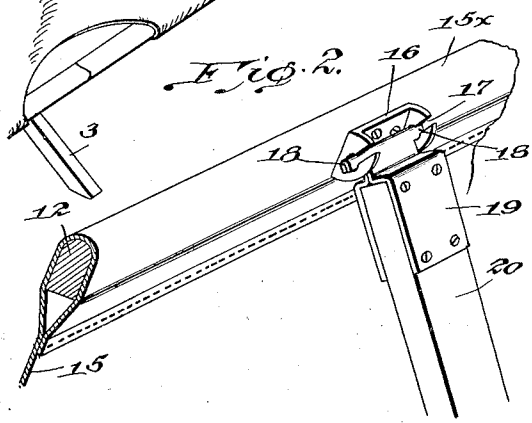


Fig. 2.



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Fig. 5.

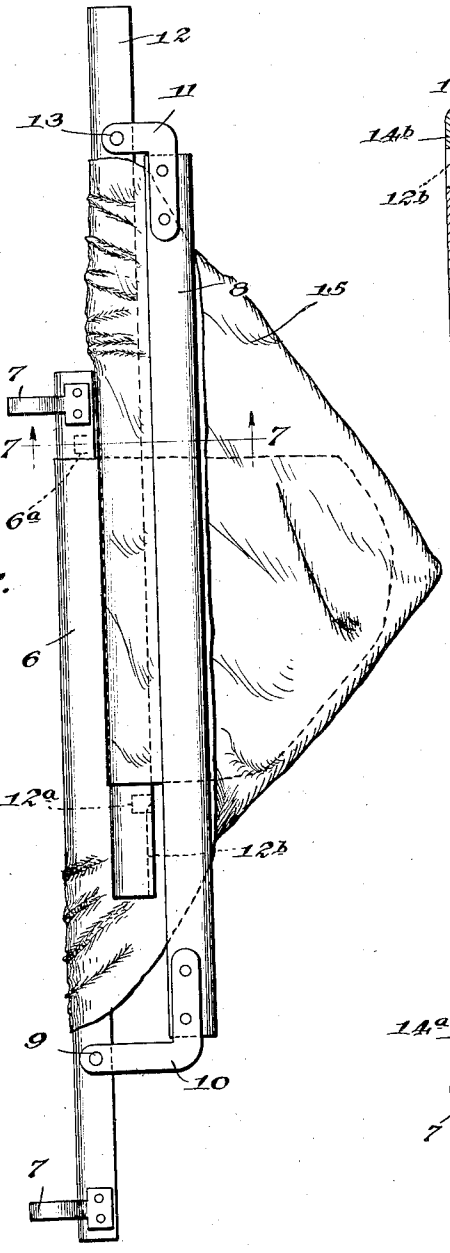


Fig. 6.

Fig. 7.

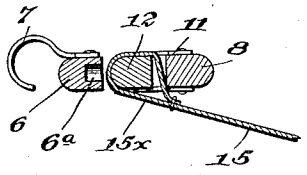
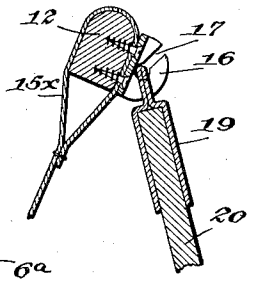


Fig. 8.



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UNITED STATES PATENT OFFICE

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BACK REST FOR COTS

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Application November 15, 1934, Serial No. 753,215

3 Claims. (Cl. 5—72)

My invention relates to improvements in back rests for cots, and it consists in the combinations, constructions and arrangements herein described and claimed.

An object of my invention is to provide a back rest which is readily attached to or detached from the ordinary canvas cot.

A further object is to provide a back rest which can be folded into a compact roll.

A further object is to provide a back rest having a frame which will support a flexible member, such as a sheet of canvas, in such a manner that there is no possibility of the frame coming apart while it is being used.

A further object is to provide a device of the type described in which the back rest may be inclined at various angles and firmly held in its adjusted positions.

Other objects and advantages will appear in the following specification and the novel features of the invention will be particularly pointed out in the appended claims.

My invention is illustrated in the accompanying drawings forming part of this application, in which:—

Figure 1 is a perspective view of a cot provided with my improved back rest.

Figure 2 is a detailed view showing the means for connecting the inclined part with the back rest.

Figure 3 is a longitudinal sectional view through the back rest support.

Figure 4 is a sectional view along the line 4—4 of Fig. 3.

Figure 5 is a view showing the frame of the back rest in its folded position.

Figure 6 is a sectional view along the line 6—6 of Fig. 1.

Figure 7 is a sectional view along the line 7—7 of Fig. 5, and,

Figure 8 is a sectional view along the line 8—8 of Fig. 1.

In carrying out my invention I make use of any ordinary cot. In Fig. 1 such a cot is shown having side rails 1 and 2 respectively, legs 3, and an end rail 4. It will be understood that a similar end rail, not shown, is at the opposite end. These canvas cots usually have cut away portions 5 at their ends.

My improved back rest comprises a frame member 6 which is arranged to be disposed parallel with the end member 4 of the cot, and which is hingedly attached thereto by means of hooks 7, at each end, which pass through the cut-away portions 5, and which partially envelope the member 4. These hooks, as will be observed in Fig. 1, are rigidly secured to one face of the frame member 6. A side frame member 8 is provided and this frame member is pivotally attached to the frame member 6 at the point 9 by means of L-shaped members 10 on opposite sides of the frame member 8. These L-shaped members 10 are so arranged that when the frame is in use the end of the frame member 8 abuts the inner side of the frame member 6.

At the opposite end of the frame member 8 are secured L-shaped members 11, the ends of which are disposed on either side of an end frame member 12. This end frame member is pivotally connected at 13 to the L-shaped members 11. The frame member 12 is provided with a socket 12*a* and with a groove 12*b*, see Fig. 5, extending from the socket to one end of the frame member.

The frame member 6 is also provided with a socket 6*a* arranged to receive the reduced portion 14*a*, see Fig. 6, of a frame member 14. This frame member has a reduced portion 14*b* at the opposite end arranged to enter the socket 12*a*.

A sheet of canvas or the like, 15, is provided, having a loop 15*x* at one end arranged to receive the end member 12, and having a loop 15*y* at the other end arranged to receive the frame member 6. The rear of the frame member 12 is provided with a metal attaching member 16 which is screwed to the frame member 12 through the canvas loop 15*x* which covers it, as clearly shown in Fig. 2. This attaching member is provided with slots 17 to receive the laterally extending portions 18 of a fixture 19 which is attached at the end of a rod 20.

The slots 17 are enlarged at their ends so that the members 18 may be passed into the slots, when the rod 20 is substantially parallel with the slots, and then the rod may be turned into the position shown in Fig. 2 so as to bring the laterally extending members 18 into such position as to prevent withdrawal through the slots until the rod is raised again substantially parallel with the slots. This rod 20 has a companion member 21, having a guide member 22 secured thereto, and arranged to hold the member 21 in substantial registration with the rod 20. The latter is provided with a guide 23 which is arranged to slidably receive the member 21, and it is provided with a movable follower 24 which can be clamped down on the rod 21 by means of a thumb screw 25 to hold the member 21 in its adjusted position. The member 21 has preferably at its end a rubber foot 26 to prevent slipping.

From the foregoing description of the various parts of the device the operation thereof may be readily understood.

The operative position of the back rest is that shown in Fig. 1. The support member 21 is adjusted to the proper right angle and is firmly clamped and the rest may be used in the manner of a chair back, or it may constitute a pillow support.

When it is desired to fold the device so as to bring it within small compass, the support is swung until the members 20 and 21 are in alinement with the slots 17 when the support may be detached by withdrawing it out of the slots. The frame as a whole may be detached from the end piece 4 by disengaging the hooks 7. The end of the frame member 12 adjacent to the frame member 14 is grasped with one hand and the frame member 14 with the other and they are sprung apart far enough to permit the reduced portion of the member 14 to clear the socket 12a and to enter the groove 12b when, by pulling outwardly, the frame member 14 will be released.

The frame member 12 may thereupon be folded inwardly parallel with the member 8 and the frame member 6 may be folded inwardly to bring the parts into position shown in Fig. 1. With the members 12 and 6 in this position the canvas is then pulled out at the side in triangular form and the members 20 and 21 of the support can be loosened so as to slide together, and these members, together with the loose member 14, may be wrapped in the canvas with the three frame members 6, 8, 12 into a compact bundle.

In setting up the back rest the bundle is unwrapped, the end of the member 14 is inserted in the socket 14a and the other end is brought into registration with the groove 12b, when, by pushing inwardly on the frame member 14 the latter will move until the reduced portion 14b will spring into the socket 12a and the frame will be in substantially rigid condition. The support may be attached by bringing it parallel with the slot 17, after entering which it may be inclined at an angle, and the members may be adjusted to hold the back rest at the desired inclination.

I claim:—

1. The combination with a cot having an end rail, of a back rest comprising a side member, end members pivotally connected with said side member, said end members being limited in movement in one direction by said side member, hooks carried by one of said end members for engaging the cot rail, said end members being provided with sockets, a second side member having reduced portions arranged to enter the sockets of the end members, and a hinged detachable support secured to the rear of one of said end members.

2. The combination with a cot having an end rail, of a back rest therefor comprising a side member having an L-shaped bracket on each side of said side member at each end thereof, an end member pivotally connected between the brackets at each end, said end members being arranged to swing into engagement with the ends of said side member, and to be limited in the swinging movement by such engagement, each of said end members having a socket, one of said end members having a groove extending from its socket to the outer end, a second side member having reduced portions arranged to enter the sockets in said end members, a fabric sheet having loops adapted to encircle the end frame members, and an extensible detachable support secured to one of said end members for adjusting the angular position of the back rest.

3. The combination with a cot having an end rail, of a back rest comprising a side member, end members pivotally connected with said side member, said end members being limited in movement in one direction by their engagement with said side members, hooks carried by one of said end members for detachably engaging the cot rail, said end members being provided with sockets, a second side member having reduced portions arranged to enter the sockets of the end members, and a support extending from the floor to the back rest.

LELAND W. WILLIAMS.