April 26, 1949. H. V. DEAN 2,468,253

FOLDING COT

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FIG. 1.

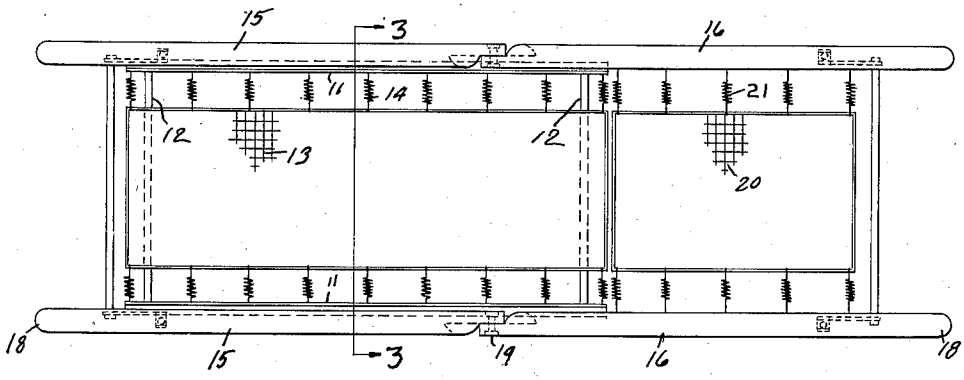


FIG. 2.

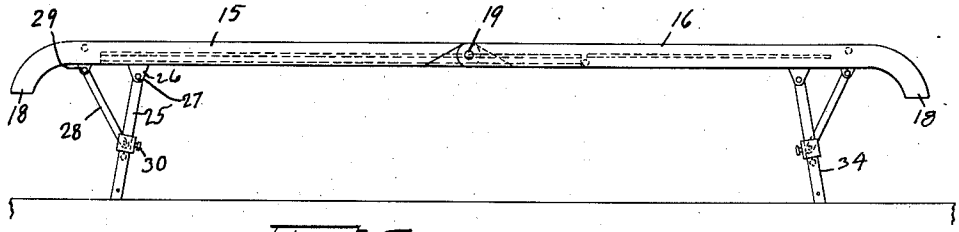


FIG. 3.

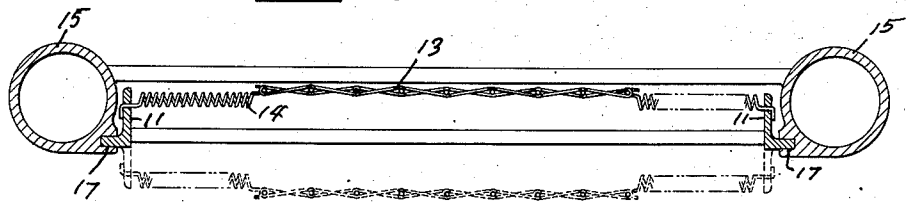


FIG. 5.

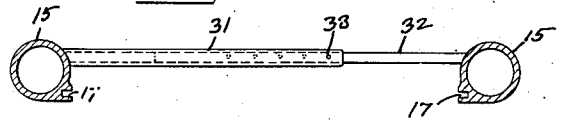
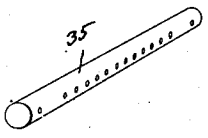


FIG. 4.



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FIG. 7.

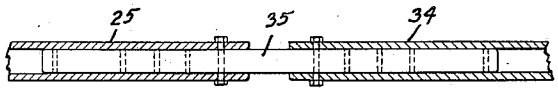


FIG. 6.

FIG. 9.

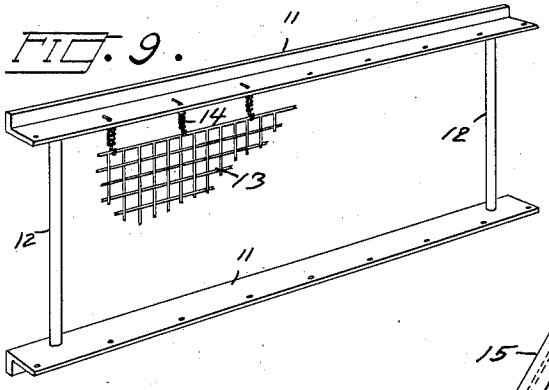


FIG. 8.

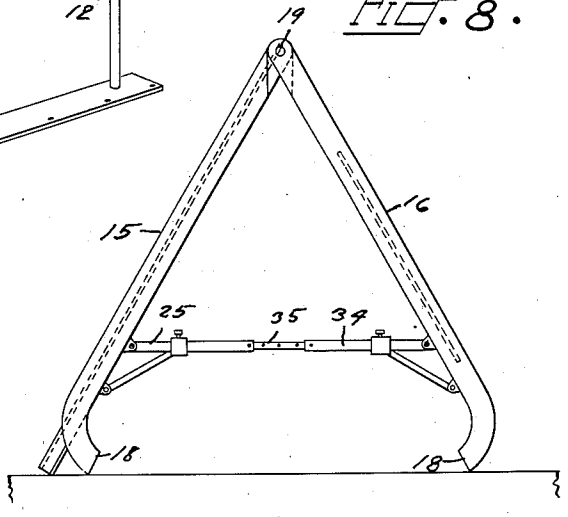
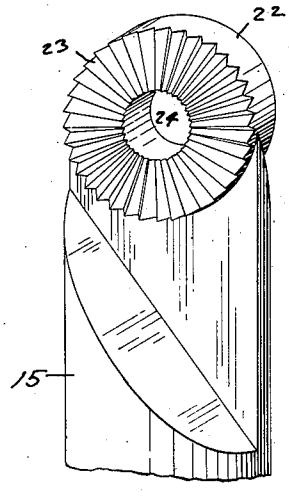


FIG. 10.



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Patented Apr. 26, 1949

2,468,253

UNITED STATES PATENT OFFICE

2,468,253

FOLDING COT

Homer V. Dean, Portland, Oreg.

Application January 27, 1947, Serial No. 724,572

5 Claims. (Cl. 5—111)

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This invention relates generally to furniture and particularly to a folding cot.

The main object of this invention is to provide a cot which can be folded for shortening purposes or for the purpose of supporting a person in a variety of positions.

The second object is to produce a cot of the class described which will be exceedingly rigid in proportion to its weight, and which requires no special skill in the manipulation thereof.

I accomplish these and other objects in the manner set forth in the following specifications as illustrated in the accompanying drawings, in which:

Fig. 1 is a plan view of the device shown in an extended position ready for use as a cot or a stretcher.

Fig. 2 is a side elevation of Fig. 1.

Fig. 3 is a section taken along the line 3—3 in Fig. 1 showing the slidable member in full lines when in use as a cot, and in dotted lines when in position for use as a seat as shown in Fig. 6.

Fig. 4 is a perspective view of the extension bar.

Fig. 5 illustrates one method of adjusting the width of the device.

Fig. 6 illustrates the use of the device as a beach seat.

Fig. 7 is a section taken along the line 7—7 in Fig. 6.

Fig. 8 illustrates the use of the device as a back rest.

Fig. 9 is a perspective view of the sliding frame.

Fig. 10 is a perspective view showing the clampings on the central joint.

Similar notes of reference refer to the same or similar parts throughout the several views.

Referring in detail to the drawing, there is shown in Fig. 9 a slidable member composed of the two elongated side frames 11, which are held apart by the cross braces 12. The member 11 supports the mesh 13 under the tension of the springs 14.

Tubular side rails 15 and 16 have slots 17 formed therein, which receive the legs of the side frames 11 in position shown in Fig. 3. The side rails 15 and 16 have down-turned ends 18, which form handles for the device.

The rails 15 and 16 are hinged by means of the pins 19, and are held against the hinging movement by means of the side frames 11 themselves. In order that the members 11 do not extend along the full length of the member 16 but only along a portion of same as shown in Fig. 1, the rim of the member 16 has disposed between same the mesh 20 which is held in tension by

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means of the springs 21 from the side rail 16.

It is desirable to make the connection at the pin 19 as shown in Fig. 10 carry to the member 15 and to provide the ends 22 with radial serrations 23. Member 22 is provided with a hold 24 which receives a pin 19. Legs 25 are hinged to the lugs 26 which project downwardly from the members 15 and are hinged thereto by the pins 27. The legs 25 are held in rigid relationship to the members 15 by means of braces 28 which are hinged at the upper end by means of the pin 29 to the ends 18 and at the lower ends by means of the tightening screw 30.

In Fig. 5 is shown a method of adjusting the device for extension, consisting merely of a telescopic tube 31, one end of which is attached to a side rail 15 while its internal rod 32 is attached to the other side rail 15, and the tube 31 is provided with holes 33 for the reception of cotter pins. The side rails 16 have similar legs 34, the detail of which will not be repeated.

In Fig. 4 is shown a brace rod 35 which may be passed through the legs 25 and 34 as shown in Fig. 8 for the purpose of holding the device in a predetermined position, as when used by a patient to hold him in a sitting position on a bed.

In Fig. 6 is shown the device used as a beach seat. It also can be seen in Fig. 3 that the mesh 13 is reversable, and in a position shown in full lines it is set up for use as a cot, while in dotted lines there is indicated the position for other use of the device.

I am, of course, aware that numerous forms of folding cots have been constructed in the past. I, therefore, do not claim such devices broadly but I do intend to cover such forms and modifications thereof as fall fairly within the appended claims.

I claim:

1. A folding cot of the type described consisting of an elongated frame having hinges formed between the ends of the sides thereof, and having a guide formed in said sides, together with a frame constituting a slide adaptable to engage said guides and hold said frame against hinging movement, said frame having a spring supported webbing disposed thereon.

2. A cot having a combination of a pair of side rails hinged between the ends thereof, braces disposed between the opposite side rails, said side rails having guides on the adjacent sides, a web supporting frame mounted in said guide and adapted to extend across the hinged ends of said bed rails, and legs foldably connected to said bed rails.

3. A cot of the class described, a combination of a pair of spaced side rails hinged between the ends thereof, and having means for holding same in a spaced lateral relationship, said side rails having guides formed on their adjacent sides, a frame slidable in said guides adapted to extend across the hinged portion thereof, and a second frame yieldably mounted between said side rails at one end thereof which is opposite said slidable frame.

4. A cot of the class described consisting of two tubular side rails held in a fixed lateral relationship, and having hinged intermediate connections, each of said side rails having a guide formed therein on an innerside, a frame slidably mounted in said guide, having a webbing therein on one side of the plane of said guides, said rails having foldable legs at opposite ends thereof, said legs having telescopic braces in between adapted to unite with said legs to form a brace between said side rails to hold same in an angular position.

5. A cot of the class described consisting of a pair of side rails having hinges along the middle portions thereof, each of said hinges having a serrated clamp for holding the members in a fixed angular relationship, one pair of rail ends having a spring mounted webbing disposed between same and the other pair of side rail ends having a springing webbing slidably mounted therein, the last mentioned webbing member constituting a means of locking the hinged joint between the side rails against angular movement.

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REFERENCES CITED

The following references are of record in the file of this patent:

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Number	Name	Date
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