Feb. 19, 1924. 1,483,979

M. LUERY

COLLAPSIBLE COT BED

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Fig. 1

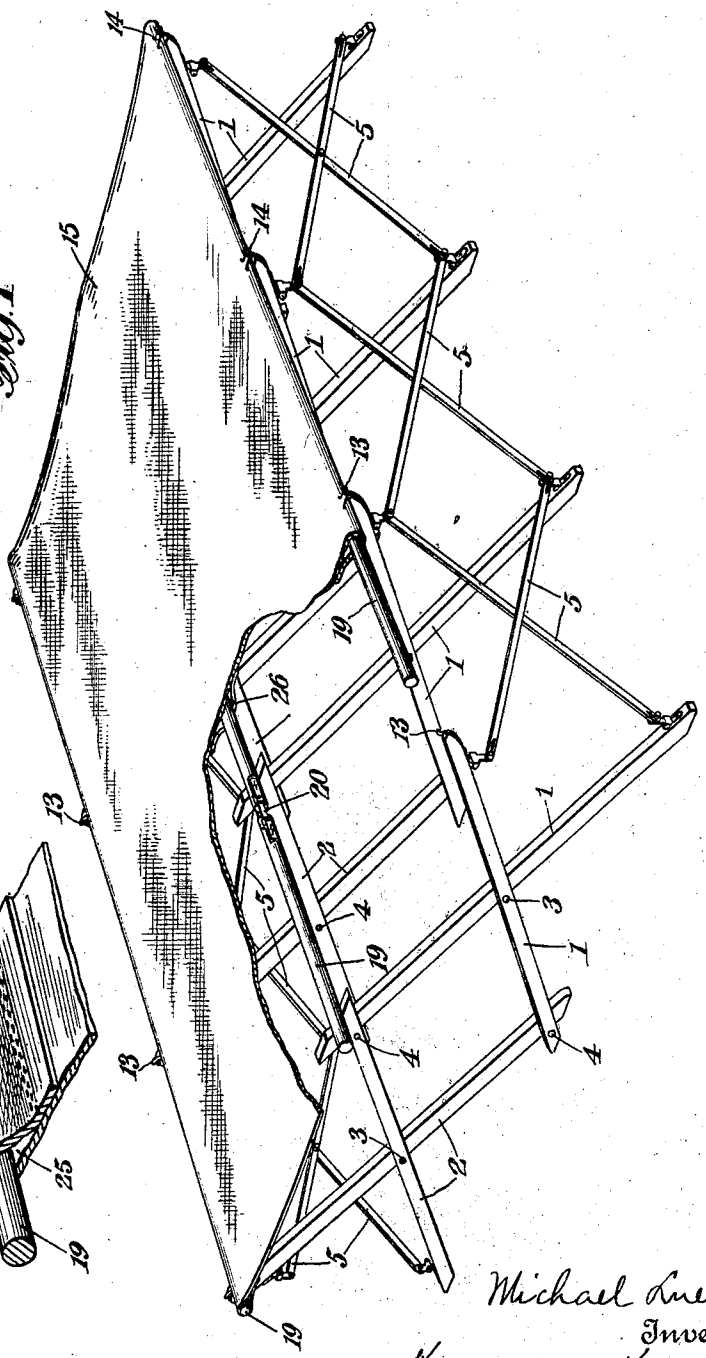
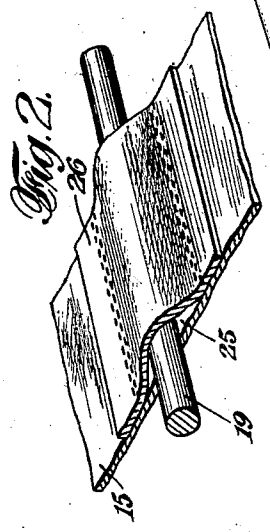


Fig. 2.



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Fig. 3

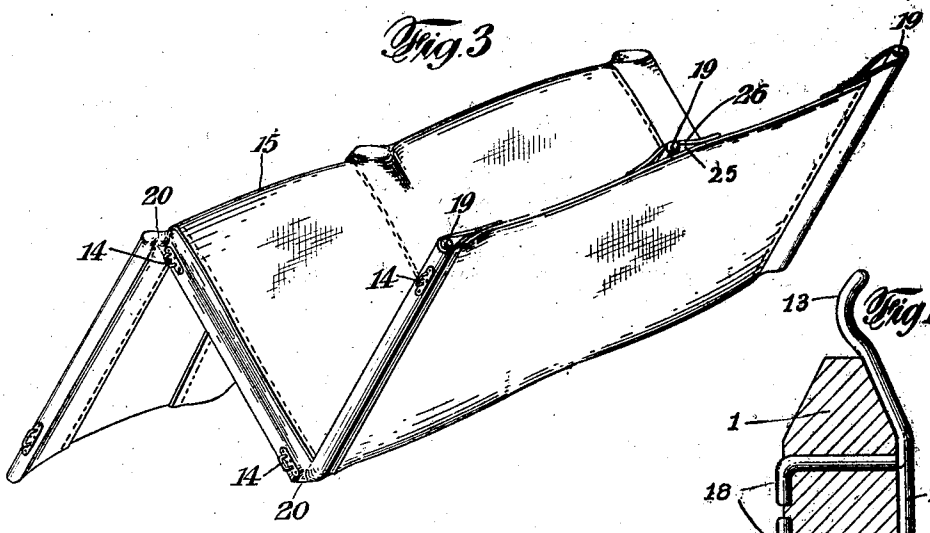


Fig. 10.

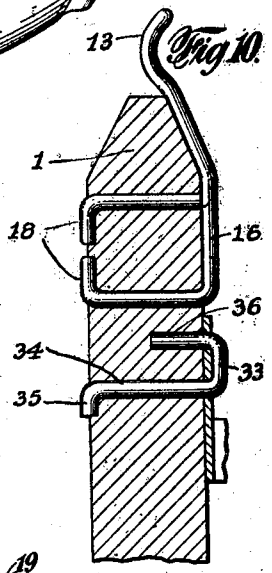
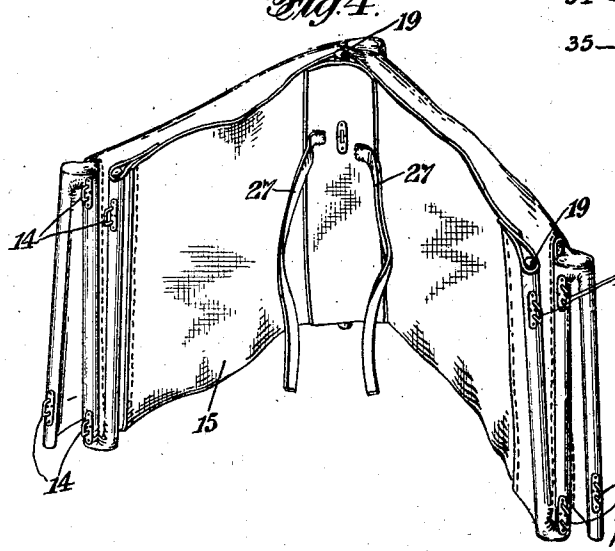


Fig. 4.



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Fig. 5.

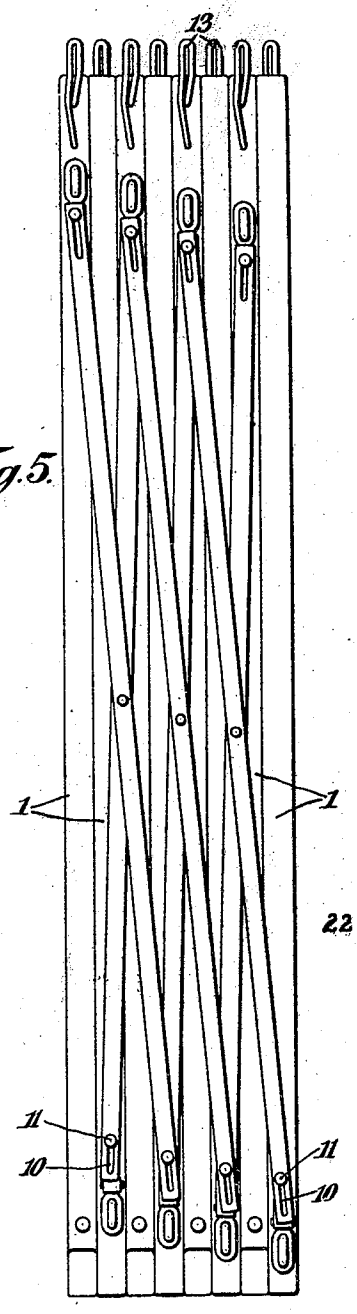


Fig. 8.

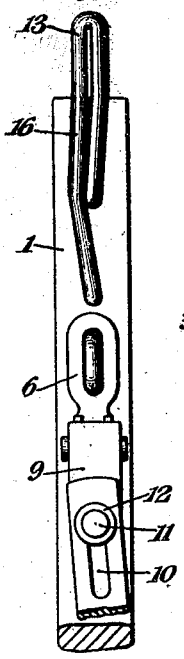


Fig. 9.

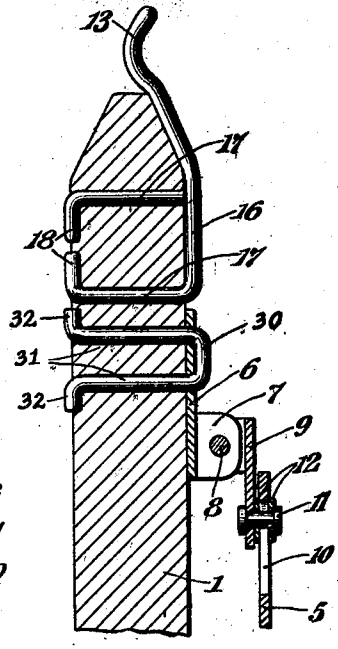


Fig. 6

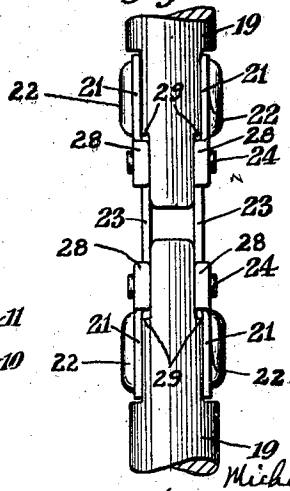
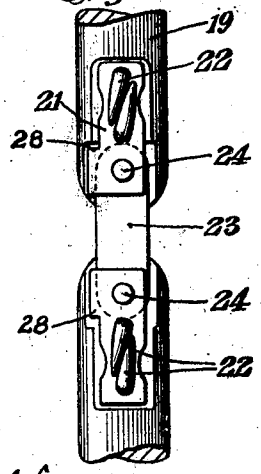


Fig. 7.



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Patented Feb. 19, 1924. 1,483,979

UNITED STATES PATENT OFFICE.

MICHAEL LUERY, OF NEW YORK, N. Y.

COLLAPSIBLE COT BED.

Application filed July 29, 1920. Serial No. 399,871.

To all whom it may concern:

Be it known that I, MICHAEL LUERY, a citizen of the United States, and a resident of New York, in the county and State of New York, have invented a new and useful Improvement in Collapsible Cot Beds, of which the following is a specification.

My improvement relates to collapsible cot beds and particularly to double collapsible cot beds and to their manufacture.

It has for its object to provide a double collapsible cot bed, simple and durable in construction, easily extended and collapsed, occupying little space when collapsed, and easily portable, and one in which the top when extended on the bed will present an unbroken surface.

The parts of my improved device can be easily put together, requiring no nice adjustment when the legs and toggle braces are fastened together, and the device is one in which the fastenings are strong and not liable to work loose, and one in which there is very little tendency to crack the legs when the parts are being put together or in use. My invention relates to the improved device and its method of manufacture herein disclosed.

In the drawings accompanying this specification and forming part hereof, I have illustrated a double cot bed embodying my invention in its preferred form, and illustrating my improved method of manufacturing the same. Referring to these drawings, Figure 1 is a perspective view of a double collapsible cot bed embodying my invention, extended and with the top partially broken away. Fig. 2 is a detail of the central pocket with a portion of the central dowel therein, parts being broken away, and with the parts shown in inverted position. Fig. 3 is a perspective view of the top with its dowels in nearly extended form, and Fig. 4 is a similar view showing the top partially folded. Fig. 5 is a face view of a toggle brace, laid upon and secured to a series of sets of legs. Figs. 6 and 7 are side and plan views of parts of two adjoining sections of the central dowel. Figs. 8 and 9 are side and sectional views of the end of a leg showing the means of connection with the end of an arm of the toggle brace. Fig. 10 shows a modification of the means for securing bracket 6 to a leg.

My improved double collapsible bed consists of two parallel series of sets of legs, each set composed of two legs crossed and loosely pivoted at their centres. 1, 1 indicate the legs of each set of one series of legs, and 2, 2 the legs of each set of the other series. Each set of legs is loosely pivoted as at 3. Each leg 1 of each set is loosely pivoted at its inner end as at 4 to the inner end of a leg 2 of the corresponding set of the other series.

Each leg of each set of each series is loosely secured at its outer end to one end of one of the arms 5, 5 of a toggle jointed brace at the side of the bed. The method of attaching the ends of the legs to the ends of the arms of the toggle brace is shown in Figs. 1, 5, 8 and 9. These means consist of the bracket 6 secured to the leg near its end by a staple 30 bent upon itself to form two arms 31, 31 passing through holes cut through leg 1, the arms being riveted at their ends 32, all as shown in Fig. 9. Bracket 6 has extending ears 7 in which is securely pivoted at 8 a depending plate 9. Each arm 5 has near its end a slot 10. A rivet 11 passes through this slot and through a hole in the plate 9, securely fastening the plate and arm together while permitting the play of the arm. 12, 12 are washers.

In place of staple 30 with two arms, both passing all the way through leg 1, I may employ a staple such as shown at 33, Fig. 10, with one arm 34 passing through leg 1 riveted at 35 and the other arm 36 passing only part way through the leg.

The above construction permits the legs and side braces to be compressed longitudinally and laterally into a small compact package, or to be extended as shown in Fig. 1.

13, 13 are hooks projecting upward and outward from the upper outward end of certain of the legs of both series adapted to form hooks over which eyes 14, secured to the outer edges of the top 15 of the bed, are adapted to take to hold the top in extended position as shown in Fig. 1. These hooks 13 are preferably made by passing a staple 16 through holes 17, passing through the legs, and doubled back on itself to form hooks 13 and riveted as at 18.

The top 15 is preferably provided with three series of dowels 19 secured in pockets formed in the top as shown in Fig. 3. These dowels are preferably jointed as shown at 20 so as to be folded. The joint for securing parts of the dowel together is shown

in Figs. 6 and 7 in which a plate 21 is secured to each side of each dowel near its end by means of a staple 22 and links 23, 23, the links 23 being loosely pivoted to plates 21 at 24, 24. A shoulder 28 at the inner upper end of each plate 21 extends inward toward the dowel over the upper pivoted end of each link 23, the dowel being cut away at 29 to permit it. The construction prevents the sections of the dowel from bending on each other one way making the dowel rigid, while permitting the sections to be folded on one another the other way.

By the above means the top can be made foldable as shown in Figs. 3 and 4. At the middle of the top, and longitudinally thereof, I provide a pocket 25 by sewing to the under side of the top a piece 26, as shown in inverted position in Fig. 2. Through this pocket passes a central dowel 19. When the bed is extended the central dowel 19 and its enclosing piece 26 will lie in the crotch formed by the crossed upper inner ends of the legs as shown in Fig. 1. This construction supports the top at the middle of the bed without any hooks or other fastening devices, and permits the top to be unbroken and level throughout its area. This arrangement also strengthens the bed and makes it much firmer than a single collapsible cot.

At the centre of the top and near each end on the under side I preferably provide tapes 27, 27, and preferably arrange them in staggered position, as shown in Fig. 4. These tapes can be tied at the bottom and top of the bed around the upper and inner ends of the legs 1 and 2 just beneath where they cross each other.

Heretofore in fastening a set of crossed legs to a toggle brace in a collapsible bed it has been usual to fasten the outer ends of the legs to the ends of the arms of the toggle brace by brackets secured to the legs by screws. In this operation it has always been found necessary to arrange the legs of a series close together side by side as shown in Fig. 5 and to carefully adjust the arms of the toggle with the pivots 11 at one end of the brace in staggered arrangement with the rivets all at the same end of the slots, and to similarly arrange the rivets at the slots at the other end of the brace in a similar staggered arrangement and at the same ends of the slots, as shown in Fig. 5, i. e., all at the right or all at the left, and then to carefully bore the holes for the screws in the exact positions and just to the right depth. Otherwise the toggle would not work when secured in position, and if the holes for the screws were too deep the fastenings were apt to work loose. This process necessitates very careful adjustment both preliminarily in locating the holes for the screws, and later in fastening the screws in. In my improvement I use staples in place of screws, bore the holes entirely through the legs and predetermine the exact positions of the holes in the legs. In this way no preliminary adjustment of the toggle braces on the legs is necessary, the corresponding legs of each set can be duplicated indefinitely with the holes in them, and the sets be put together and the toggle brace applied to a set, and the staples driven through and riveted without either the preliminary or later adjustment. Thus a great saving in time and expense is effected.

What I claim as new, and desire to secure by Letters Patent, is:

1. A double collapsible bed composed of two parallel series of sets of legs, each set composed of two legs crossed and loosely pivoted together at their centre, and having the inner ends of both legs of the set loosely pivoted to the inner ends of the corresponding set of the other series, and a toggle joint side brace loosely secured to the outer ends of the legs of each series, whereby the bed may be fully extended or may be collapsed longitudinally and laterally into a compact package, and a top detachably securable to the collapsible frame along each side, and a dowel secured to the top along its longitudinal centre and adapted when the bed is extended to lie in the crotch formed by the upper inner crossed ends of the legs.

2. A double collapsible bed composed of two parallel series of sets of legs, each set composed of two legs crossed and loosely pivoted together at their centre, and having the inner ends of both legs of the set loosely pivoted to the inner ends of the corresponding set of the other series, and a toggle joint side brace loosely secured to the outer ends of the legs of each series, whereby the bed may be fully extended or may be collapsed longitudinally and laterally into a compact package, a top detachably securable to the collapsible frame along each side, a pocket secured to the under side of the top longitudinally along its centre adapted to receive and enclose a central supporting dowel, the dowel and its enclosing pocket adapted when the bed is extended to lie in the crotch formed by the upper inner crossed ends of the legs.

3. A double collapsible bed composed of two parallel series of sets of legs, each set composed of two legs crossed and loosely pivoted together at their centre, and having the inner ends of both legs of the set loosely pivoted to the inner ends of the corresponding set of the other series and a toggle joint side brace loosely secured to the outer ends of the legs of each series, whereby the bed may be fully extended or may be collapsed longitudinally and laterally into a compact package, and a top detachably securable to the collapsible frame along each side, a

dowel, composed of sections hinged together, a pocket secured to the under side of the top longitudinally along its centre and adapted to receive and enclose the dowel sections, the dowel and its enclosing pocket adapted, when the bed is extended, to lie in the crotch formed by the upper inner crossed ends of the legs, and adapted to be folded into compact form.

4. A double collapsible bed composed of two parallel series of sets of legs, each set composed of two legs crossed and loosely pivoted together at their centre, and having the inner ends of both legs of the set loosely pivoted to the inner ends of the corresponding set of the other series, and a toggle joint side brace loosely secured to the outer ends of the legs of each series, whereby the bed may be fully extended or may be collapsed longitudinally and laterally into a compact package, and a top detachably securable to the collapsible frame along each side, and a dowel secured to the top along its longitudinal centre and adapted when the bed is extended to lie in the crotch formed by the upper inner crossed ends of the legs, and a pair of staggered tapes arranged on the top, near each end of the pocket.

In testimony whereof, I have signed my name to this specification.

MICHAEL LUERY.