May 3, 1932. M. A. DAVIS 1,856,624

CAMPING COT

Original Filed Dec. 17, 1925 2 Sheets-Sheet 1

Fig. 1.

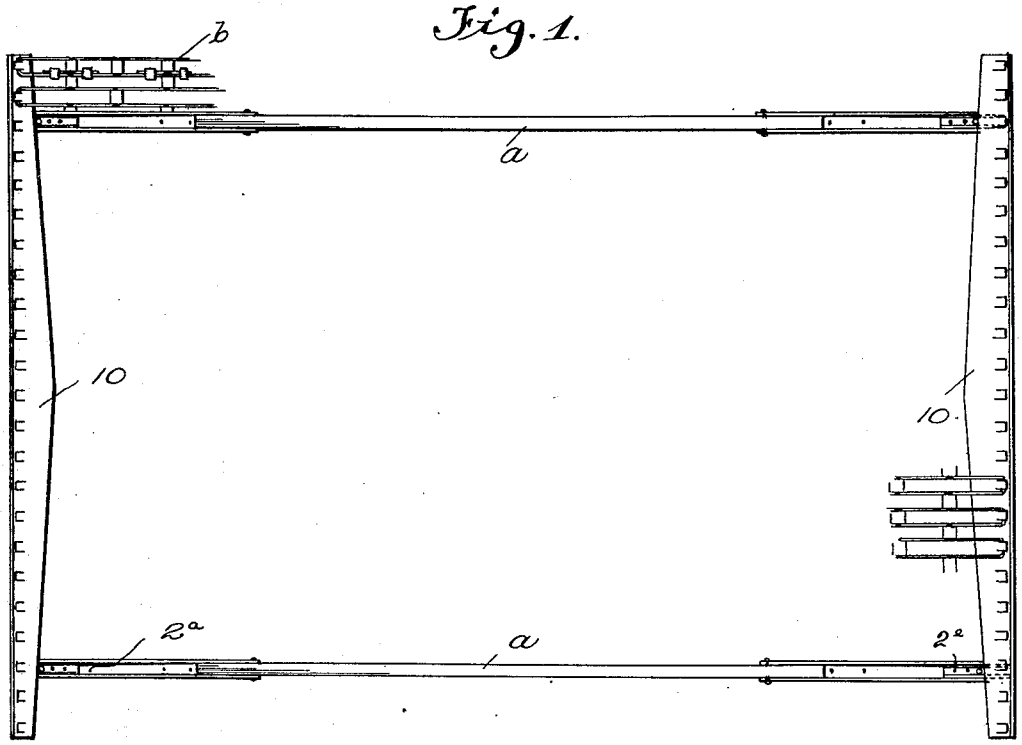

Fig. 2.

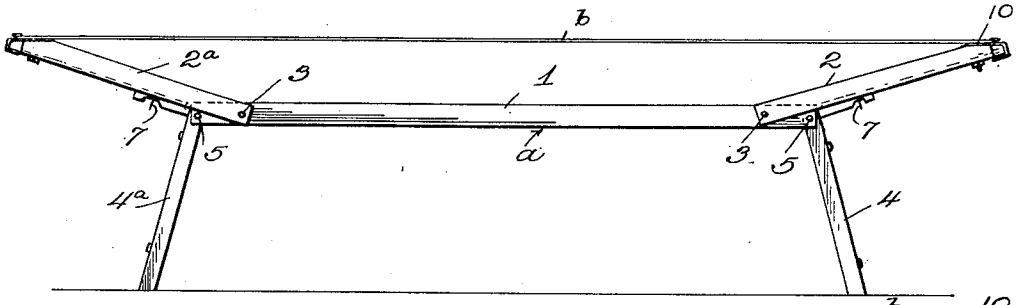

Fig. 3

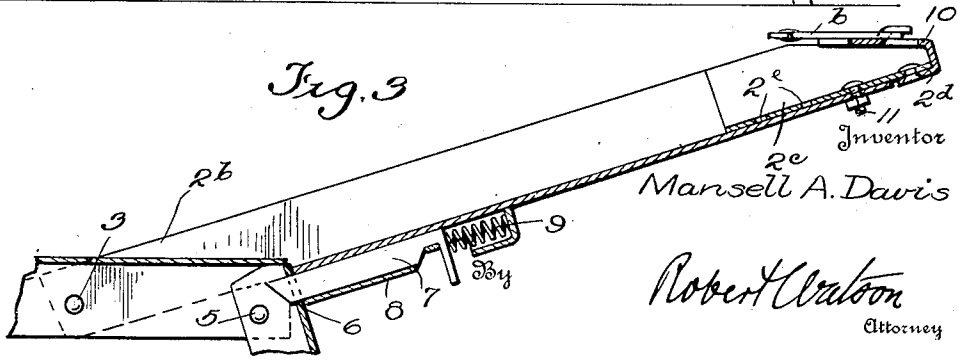

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Fig. 4.

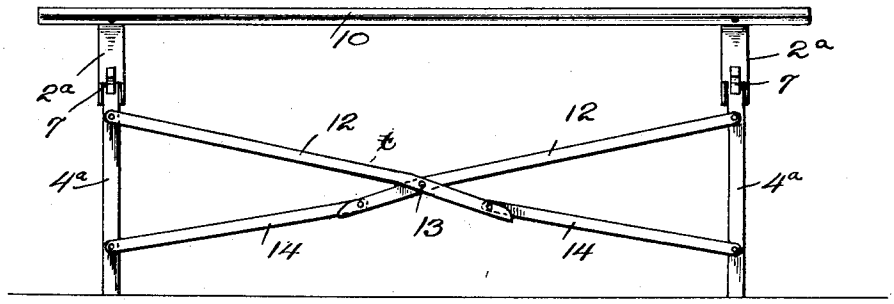


Fig. 5.

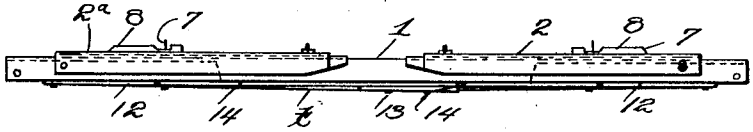


Fig. 6.

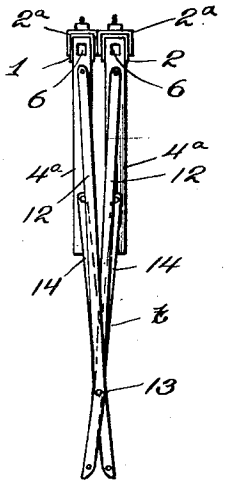
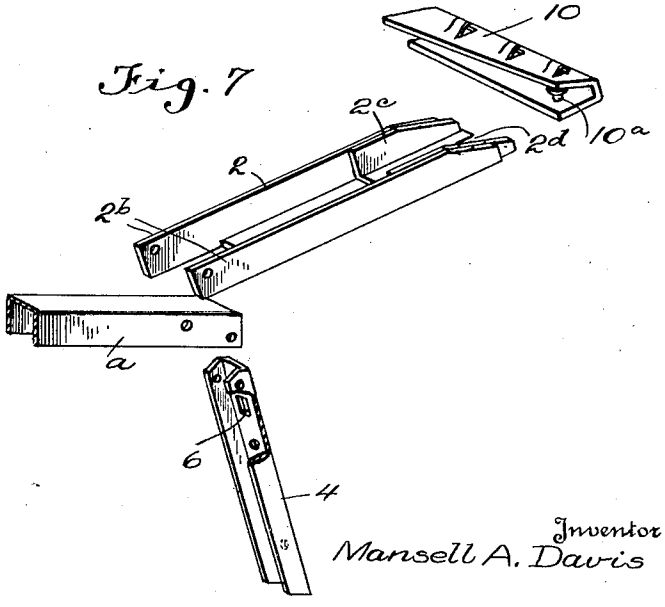


Fig. 7



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1,856,624

UNITED STATES PATENT OFFICE

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CAMPING COT

Application filed December 17, 1925, Serial No. 75,995. Renewed December 14, 1931.

This invention relates to a folding cot, suitable for camping purposes, which can be quickly and easily set up and folded and which will fold compactly so that it can be readily handled and transported.

In carrying out the invention, I provide a pair of side rails composed of channel bars, each rail comprising three parts, namely, a relatively long central bar and two end bars of shorter length having forked ends which straddle the central bar and which are pivoted to it, a short distance from its ends. Legs are pivoted within the central bar, at the ends of the latter, and these are provided with slots or notches near their pivotal points. Sliding bolts are secured to the end bars and adapted to enter these notches when the cot is being set up. These bolts lock the end bars and the legs so that the legs cannot fold and the end bars cannot move upwardly or downwardly except by releasing the bolts. The pair of legs at each end of the cot are connected together by folding toggle levers, and a suitable fabric is detachably connected to the end bars of the frame. When the cot is folded the channeled end bars fold over the backs of the central bars and the legs fold within the central bars, and the toggle connections between the legs at opposite sides of the cot fold and permit the side bars to lie close to one another.

In the accompanying drawings,

Fig. 1 is a top plan view of the cot set up, a part only of the mattress frame being shown;

Fig. 2 is a side elevation of the same;

Fig. 3 is a detail view, on a larger scale, showing parts of a side bar, an end bar, and a leg in central longitudinal section, and a part of the mattress frame in cross section;

Fig. 4 is an end view of the cot, set up;

Fig. 5 is a side view of the cot, folded;

Fig. 6 is an end view of the cot, partly folded; and,

Fig. 7 is a perspective view of detached portions of a side bar, end bar and leg, and of a cross bar of the mattress frame.

Referring to the drawings, the frame of the cot comprises a pair of side rails *a*, *a*, each alike in construction and each composed of a relatively long central bar 1 and end bars 2 and 2^a, which are connected to the central bar, by pivots 3, a short distance from the ends of the latter bar. The several parts of the side rails are composed of channeled steel, the central bars 1 having their open sides facing downward when the cot is set up, and the end bars having their open sides facing upward when the cot is set up. The end bars are of slightly greater width than the central bar. As shown in the detail views, Figs. 3 and 7, the end bars have their back portions removed for some distance from their pivotal points, leaving forked ends 2^b which straddle the central bar. Legs 4, 4^a, composed of channel steel, are connected to the ends of each central bar by pivot pins 5. The legs are of slightly less width than the width of the central bars of the side rails and are pivoted within the central bars, so that they may fold therein. The open sides of the legs connected with each side rail face one another, and in the back of each leg, close to its upper end, is formed a slot 6, adapted to receive a sliding latch or bolt 7, secured to the back of the adjacent end rail. Each bolt is arranged within a suitable guide 8, attached to the end rail, and it is pressed toward its locking position by a spring 9. When the cot is set up, these bolts lock the end bars to the legs so that the latter cannot fold and the end bars cannot be moved upwardly or downwardly with respect to the legs or the central bars.

The end bars are provided with adjustable channelled parts 2^c at their outer ends, and these parts are slotted at their ends, as shown at 2^d, to receive studs 10^a on cross bars 10 which support the wire mattress *b*. As shown these cross bars are of U-shape in cross section and hook over the ends of the adjustable parts 2^c of the end bars. Each part 2^c has a suitable number of spaced openings 2^e, through which a bolt 11 may be inserted to hold the part in any position of adjustment. The purpose of this adjustment is to apply the proper tension to the mattress when the cot is set up.

The pair of legs at each end of the cot are connected together by toggle levers *t*, each

consisting of two relatively long levers 12, pivoted, as shown, near the upper ends of the legs and pivotally connected together at 13, and two shorter levers 14, pivoted to the legs near their lower ends and to the ends of the levers 12, the arrangement being such that in folding the cot, the joints between the levers 12 and 14 will break downwardly.

When the cot is knocked down, the end bars 2, 2ª, fold over the backs of the central bars 1, as shown in Figs. 5 and 6, and the legs fold within the central bars, the toggles lying flat against the legs, as shown in Fig. 5. In setting up the cot, the legs are first unfolded, as shown in Fig. 6, the cot lying on its side, and the side rails are then pulled apart upwardly, spreading the toggles. The end bars at one end of the cot are then swung outwardly, and the latch bolts automatically lock with the legs, the beveled ends 7ª of the bolts sliding over the ends of the central bars and into the slots in the legs. The end bars at the opposite end of the cot are then swung outwardly, but not into the locking position, and the fabric frame is then hooked over the end bars. After the fabric frame has been applied, the end bars which were last unfolded, are pressed downwardly and the bolts thereon automatically enter the openings in the adjacent legs.

To fold the cot, the operation is reversed, the bolts at one end of the cot being first released, after which the fabric frame may be unhooked. The end bars, after releasing the bolts, may then be folded over the backs of the central bars, and the legs may be folded within the central bars after the toggles have been broken and the legs at the opposite sides of the cot have been brought together, as shown in Fig. 6.

What I claim is:

1. In a folding cot, a pair of side rails, each rail comprising a relatively long central bar and end bars, the latter composed of channel bars and having forked ends pivotally connected to the central bar adjacent the ends thereof, said end bars adapted to fit around the back and sides of the central bar when the cot is folded and to extend beyond the end of the central bar with their open sides upward when the cot is set up, legs pivoted to the central bar, and means for fastening the end bars to the legs.

2. In a folding cot, a pair of side rails composed of channel bars, each rail comprising a relatively long central bar having its open side downward when the cot is set up, and end bars, the latter having forked ends pivotally connected to the central bar, adjacent the ends of the latter, said end bars adapted to fit around the back and sides of the central bar when the cot is folded and to extend beyond the ends of the central bar, with their open sides upward, when the cot is set up, legs pivoted to the central bars, and means for fastening the end bars to the legs.

3. In a folding cot, a pair of side rails, each comprising a relatively long central bar and end bars, the latter each having a forked end pivoted to the central bar a short distance from an end of the latter, legs pivoted to the central bars at their ends and having slots near their pivotal points, and latch bolts on said end bars adapted to engage said slots when the cot is set up.

4. In a folding cot, a pair of side rails composed of channel bars, each rail comprising a relatively long central bar, having its open side downward when the cot is set up, and end bars, the latter having parts of their backs cut away, leaving forked ends which straddle the central bar and are pivotally connected to the latter a short distance from its ends, said end bars adapted to fit over the back of the central bar when the cot is folded and to extend beyond the ends of the central bar with their open sides upward when the cot is set up, legs pivoted within the central bar at its ends and adapted to fold within the latter bar, and bolts on the end bars adapted to interlock with the legs when the cot is set up.

5. In a folding cot, a pair of side rails composed of channel bars, each rail comprising a relatively long central bar, having its open side downward when the cot is set up, and end bars, the latter having forked ends which straddle the central bar and are pivotally connected to the latter a short distance from its ends, said end bars adapted to fit around the back and sides of the central bar when the cot is folded and to extend beyond the ends of the central bar with their open sides upward when the cot is set up, legs pivoted within the central bar at its ends and adapted to fold within the latter bar, and means for detachably securing the end bars to the legs when the cot is set up.

6. In a folding cot, a pair of side rails composed of channel bars, each rail comprising a relatively long central bar, having its open side downward when the cot is set up, and end bars, the latter having parts of their backs cut away, leaving forked ends which straddle the central bar and are pivotally connected to the latter a short distance from its ends, said end bars adapted to fit over the back of the central bar when the cot is folded and to extend beyond the ends of the central bar with their open sides upward when the cot is set up, channeled legs pivoted within the central bar at its ends, the open sides of the legs facing one another when the cot is set up and the backs of the legs having slots near their pivotal points, and bolts on the end bars adapted to enter said slots.

7. In a folding cot, a pair of side rails composed of channel bars, each rail comprising a relatively long central bar, having its open

side downward when the cot is set up, and end bars, the latter having forked ends which straddle the central bar and are pivotally connected to the latter a short distance from its ends, said end bars adapted to fit around the back and sides of the central bar when the cot is folded and to extend beyond the ends of the central bar with their open sides upward when the cot is set up, channeled legs pivoted within the central bar at its ends and adapted to fold within said central bar, the open sides of the legs facing one another when the cot is set up, and means for detachably connecting the end bars to the legs when the cot is set up.

8. In a folding cot, a pair of side rails, each rail comprising a relatively long central bar and end bars, the latter composed of channel bars pivotally connected to the central bar adjacent the ends thereof, said end bars adapted to fit around the back and sides of the central bar when the cot is folded and to extend beyond the end of the central bar with their open sides upward when the cot is set up, legs pivoted to the central bar, and means for fastening the end bars to the legs.

In testimony whereof I hereunto affix my signature.

MANSELL A. DAVIS.