H. A. LOCKLIN.

BUNK BED.

APPLICATION FILED APR. 19, 1918.

1,357,787.

Patented Nov. 2, 1920.

2 SHEETS—SHEET 1.

Fig. 1.

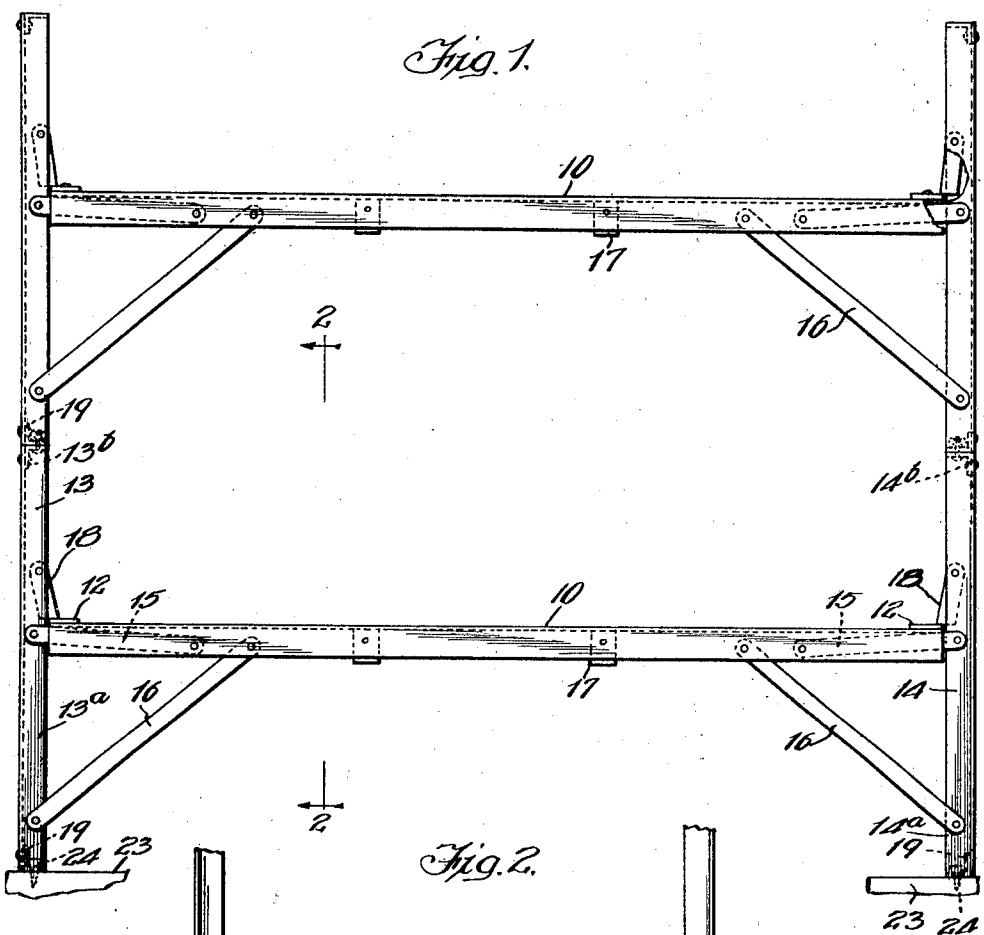
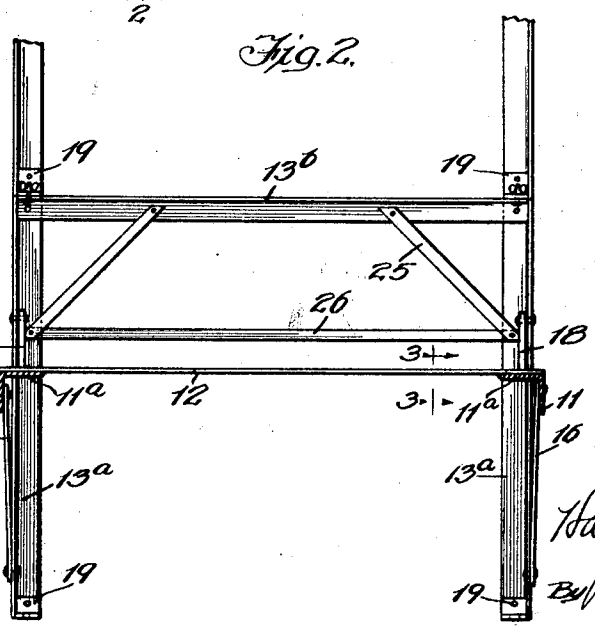


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

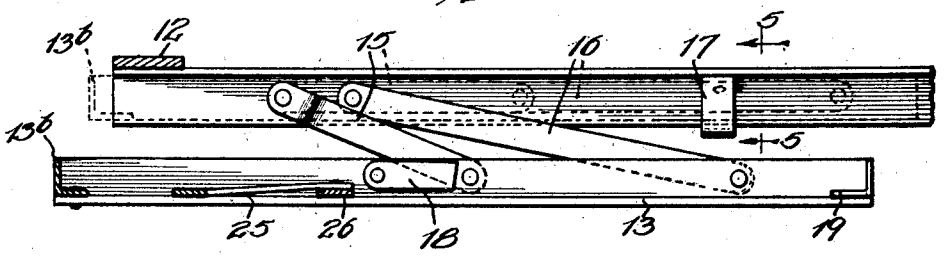


Fig. 4.

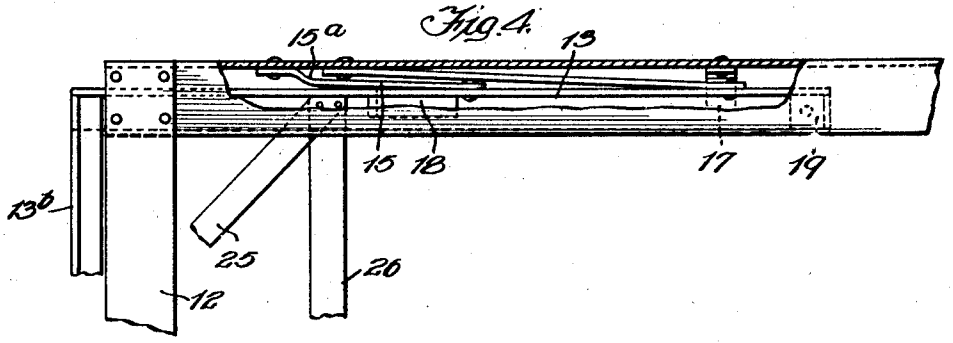


Fig. 5.

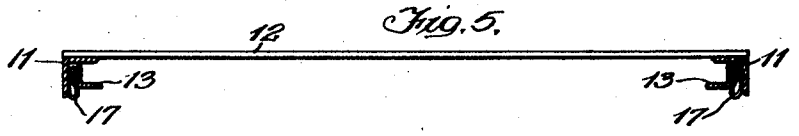


Fig. 6.

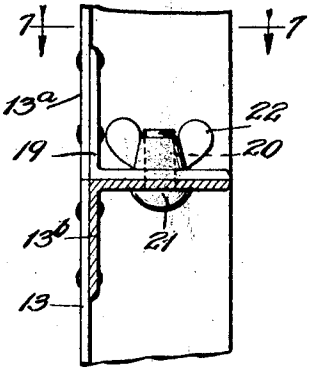
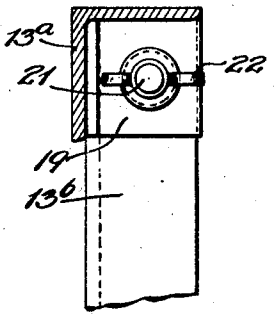


Fig. 7.



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UNITED STATES PATENT OFFICE.

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BUNK-BED.

1,357,787. Specification of Letters Patent. Patented Nov. 2, 1920.

Application filed April 19, 1918. Serial No. 229,553.

To all whom it may concern:

Be it known that I, HARLEY A. LOCKLIN, a citizen of the United States, residing at Hammond, in the county of Lake and State of Indiana, have invented certain new and useful Improvements in Bunk-Beds, of which the following is a specification.

My invention relates to a bunk bed, or bed structure, in which beds are arranged one above the other, and the principal object of the invention is to provide a new and improved bed structure of this type, of simple and economical construction, comprising cot or bed sections which may be used independently of each other or may be rigidly connected, one upon another, where limitations of space, as for example in camps, barracks or dormitories, make such an arrangement desirable. A further object is to so construct the bed sections that they may be folded in small compass for shipment or storage.

A further and more specific object is to provide a folding bed or cot which will be held rigid when in extended position by means of a simple and conveniently operated device adapted to lock the head and foot members of each folding cot section in their upstanding position, so as to insure the same against accidental collapsing.

The invention consists in the novel arrangements, constructions and combination of parts to be hereinafter described and claimed for carrying out the above stated objects, and such other objects as may appear from the following description.

The preferred embodiment of my invention is illustrated in the accompanying drawings wherein like characters of reference designate corresponding parts, and wherein:

Figure 1 is a side view in elevation of a metal bunk bed constructed in accordance with my invention;

Fig. 2 is a cross-sectional view taken on line 2—2 of Fig. 1, illustrating the manner in which each section of the bed is secured to another;

Fig. 3 is a fragmentary view in section of one end of a bed section, showing the head piece thereof folded to a position underneath the body;

Fig. 4 is a fragmentary plan view, partly in section, of the structure illustrated in Fig. 3;

Fig. 5 is a cross-sectional view taken on line 5—5 of Fig. 3, and illustrating a preferred means for retaining the head and foot pieces in their folded position;

Fig. 6 is a fragmentary view on a larger scale and partly in section, illustrating the preferred manner of securing the extremities of the legs of the head and foot pieces of one section of the bed to the upper portion of another section; and

Fig. 7 is a sectional view taken on line 7—7 of Fig. 6, looking in the direction indicated by the arrows.

Referring to the drawings, the bunk bed, in accordance with the preferred embodiment of my invention, consists of two or more foldable cots or sections secured together one above another so as to provide a rigid structure which can be quickly and conveniently assembled. The foldable sections of the bunk bed herein described are preferably identical in construction, and it will therefore be only necessary to describe the construction of one of these sections. Each section consists of a rectangular body portion or frame 10, which is preferably made up of angular side railings 11, secured together at the ends by metal strips 12. 13 and 14 designate head and foot pieces which are hingedly secured to the inner faces of the angular side rails 11—11 by means of pivoted bracing members 15 and 16. When the head and foot pieces are in their extended position, such as shown in Figs. 1 and 2, the braces 15 stand slightly oblique to the side rails 11 and bear against the under side of the horizontal flanges 11ª thereof. The hinged connections between the head and foot pieces 13 and 14 and the side rails 11 of the body permit the head and foot pieces to be folded back within the space defined by the body portion, as indicated in dotted lines in Fig. 3 and shown in section in Fig. 5, so as to provide a compact structure that may be conveniently moved from place to place and which will not require a large space when stored. The braces 15 are preferably offset inwardly as indicated at 15ª (Fig. 4) so as to permit portions of the same to extend back of the braces 16 when the head or foot pieces are in their folded position. The representation of the head piece 13 in full lines in Fig. 3 shows a position of this part of the bed during its folding movement before it

has reached its extreme folded position. After the head pieces have been folded they are preferably retained in such position by springs 17 which are secured to the inner surface of the flange of the said rails as shown in Figs. 3, 4 and 5. The foldable parts of the bed when extended are preferably locked by means of a gravity operated locking device consisting of a dog 18 pivotally secured to the opposite sides of the head and foot pieces, respectively, and adapted to bear against the frame or body portion of the bed so as to prevent accidental collapsing of the same.

Each bed section as above described may be used as a separate bed, or if desired, a number of these sections may be secured together, one above the other, as shown in Figs. 1 and 2, so as to provide a strong and rigid bunk bed. In order to firmly secure the bunk bed sections together, I provide the legs 13^a, 14^a of the head and foot pieces, respectively, with angular pieces 19 which are apertured as indicated at 20. These apertures register with corresponding apertures in reinforcing angles 13^b, 14^b, respectively, of the head and foot pieces. 21 designates a bolt which extends through said apertures and 22 a suitable thumb nut which, when tightened, will clamp the sections together. The lower section of the bunk bed may be secured to the floor 23 if desired, by means of lag screws 24 which may extend through apertures 20 in the angle strip 19. 25 and 26 designate reinforcing braces which also serve as pillow retaining strips.

I claim:

A sectional bunk bed comprising a plurality of superposed sections, each section comprising a body frame, head and foot pieces hingedly secured to the body frame and adapted to be folded to a position within the frame defined by said body, a pivoted dog for automatically locking said head and foot pieces in extended position, spring devices adapted to lie between said body and said head and foot pieces, respectively, for retaining said pieces in folded position, and means on said head and foot pieces for rigidly securing said sections together in said superposed relation.

HARLEY A. LOCKLIN.