A. E. GOSSO.

BED.

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1,325,320. Patented Dec. 16, 1919.

Fig. 3

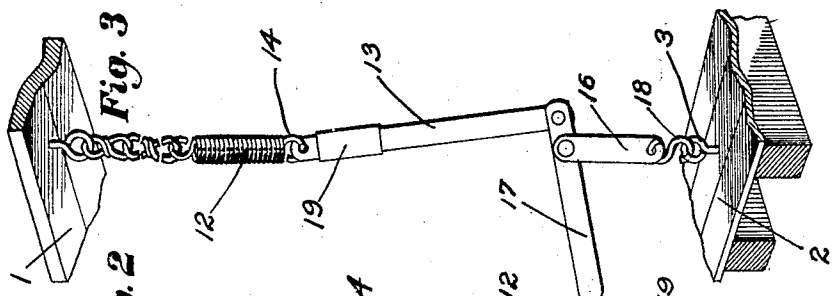


Fig. 2

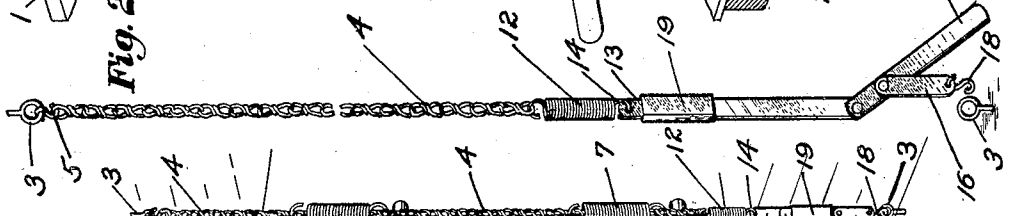
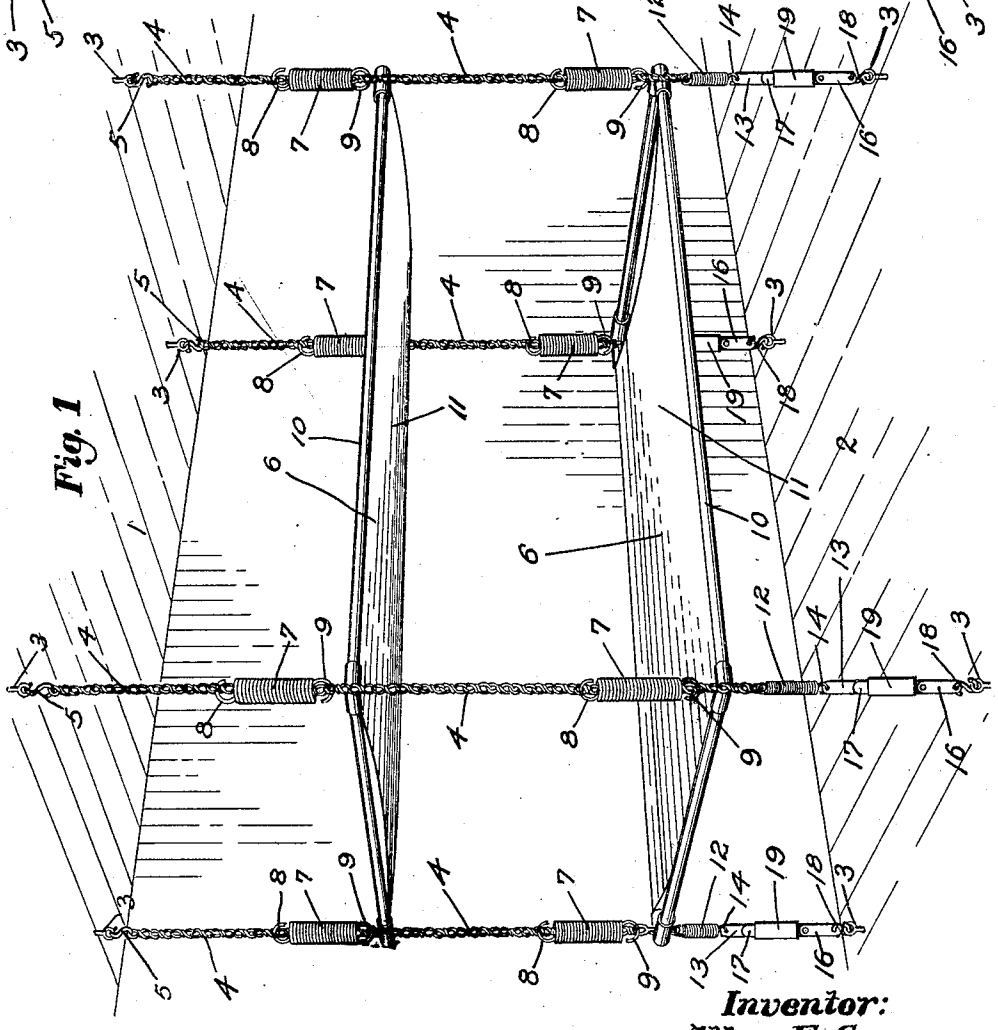


Fig. 1



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To all whom it may concern:

Be it known that I, ALTON E. GOSSO, a citizen of the United States, residing at 164 North Central avenue, Austin Station, Chicago, in the county of Cook and State of Illinois, have invented an Improvement in Beds, of which the following is a specification.

This invention relates to beds, and particularly to strong, compact, simple and economical beds which may be installed in a very brief space of time in small quarters and readily removed, and which are sanitary and consume only a fraction of the space ordinarily consumed by beds.

In the drawings, Figure 1 is a perspective view of a double-deck bed made according to my invention, shown as installed in the interior of a structure which may be a railroad car, an ordinary room, space between decks on a ship, or any other sleeping quarters.

Fig. 2 is an elevation of one of the supporting chains showing the take-up device forming part of the invention.

Fig. 3 is a perspective view on an enlarged scale of the same showing the take-up device in another position.

In the drawings, 1 represents in general the ceiling or any other overhead support, and 2 a floor. Into the ceiling and the floor 2 are screwed the eye bolts 3, one at the top and at the bottom for each corner of the beds. Chains, or the like, 4 having S-connectors 5 at their tops, are suspended from the top eye-bolts 3. The chains 4 support the beds 6 by means of a set of springs 7 for each bed; these springs being hooked into the chains at any desired height by means of the hooks 8, and connected to the corners of the beds by hooks 9. It will be noted that the coil springs 7 encircle the chains and thus hold the bed corners firmly thereto and prevent swaying of the beds on the springs without cramping the full resiliency of the springs. The bed proper consists of a framework of tubing 10 having smooth rounded corners, across which is stretched a canvas sheet 11, forming a simple, compact, and comfortable bed. In the drawings two beds are shown supported one above the other in precisely similar fashion from the chains, and each independently supported from its own springs.

In order to prevent the chains from swaying, they are secured to the eye-bolts 3 and made taut so as to firmly hold the beds in correct position. This is accomplished by means of a combined take-up and connecting device shown more in detail in Figs. 2 and 3. To the lower end of the chain 4 is removably hooked a spring 12, to the lower end of which is removably connected the link 13, by means of the hook 14. The lower end of the link 13 and the upper end of another link 16 are pivotally connected, at spaced points, to the lever 17, and the lower end of the link 16 is connected by an S-hook 18 to the eye-bolt 3 in the floor. A slidable sleeve 19 is provided upon the link 13 which can be raised above the top of the lever 17 or slid down over it, as shown in Fig. 1, to maintain the lever 17 in alinement with the link 13. It will be obvious that when the lever 17 is moved from the position shown in Fig. 2 to that shown in Fig. 1, the total length of the chain connecting device between the two eye-bolts will be shortened because the links 13 and 16 are overlapped as far as their pivot points are spaced apart on the lever 17, whereas if the lever 17 is released the chain will be correspondingly slackened.

In setting up the beds, therefore, the levers 17 are released by sliding the sleeves 19 up the links 13, and the top and bottom S-hooks are connected in their respective eye-bolts, the bed 6 thereafter applied at whatever height is desired, and the levers 17 are pulled up into alinement with the links 13 and secured there by the sleeves 19. This makes the chains taut and prevents the swaying of the beds.

It will be noted that the take-up device is preferably located below the lower bed. The take-up device might be interposed anywhere in the length of the chain, but to locate it below the lower bed permits greater speed in taking down the beds, inasmuch as all of the take-up device can be released before the occupants of the beds have left them without causing the beds to drop and jerk the chains. When the beds are to be taken down hurriedly by their occupants, the man in the lower bed may release all four connectors, before leaving the bed, or waiting for the occupant of the upper bed to leave it. This feature is advantageous in connection with the use of these devices in military service. The combination of the springs encircling the chains, the take-up device, and the rounded corners of the beds, prevents material swaying and reduces the possibility

of harm from the slight swaying of the beds which may occur.

In the drawings, all of the four chains are shown as provided with the take-up device, but one or two taut chains instead of four might suffice to hold the beds in correct alinement and prevent their swaying.

Having now described my invention, I claim:—

1. In apparatus of the class described, a plurality of chains or the like adapted to be suspended between an overhead and an underneath support, coil springs encircling said chains and suspended therefrom, a bed suspended from said coil springs, and means for tightening said chains.

2. In apparatus of the class described, a plurality of chains or the like adapted to be suspended vertically between an overhead and an underneath support, beds comprising a rectangular framework of tubing having rounded elbows at the corners, springs encircling said chains and suspended therefrom for supporting the corners of the beds, and take-up devices on said chains for tightly stretching the same between the supports, whereby the swaying of said beds and the damage occasioned thereby is reduced.

3. Apparatus of the class described comprising, in combination, a suspended bed, chains or other suspension means therefor secured between overhead and underneath supports, springs encircling and suspended from intermediate portions of said chains, the bed being connected to and suspended by said springs, and provision for tightening said chains.

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

ALTON E. GOSSO.