

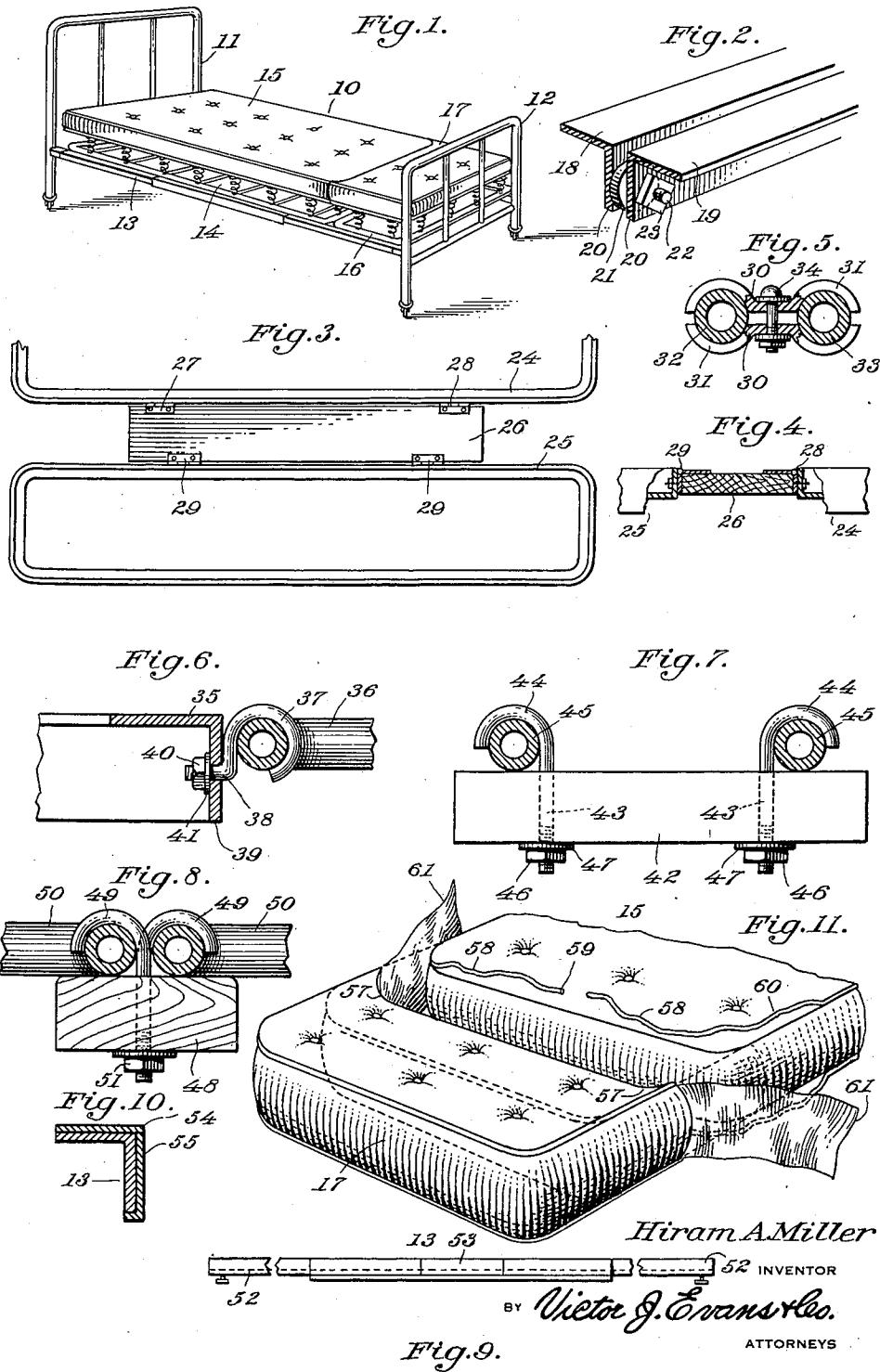
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EXTENDED BED FOR TALL MEN

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EXTENDED BED FOR TALL MEN

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1 Claim. (Cl. 5—249)

My invention relates to beds and includes among its objects and advantages to providing of improved means for extending conventional beds.

An object of my invention is to provide means whereby the side rails, frame structure, and mattress may be extended to provide additional length to the bed. The invention contemplates extensions which may be connected with the usual springs and mattress together with means for extending the length of the side rails.

With these and other objects in view, this invention consists in certain novel features of construction, combination and arrangement of parts to be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawing, in which

Figure 1 is a perspective view of the bed showing the side rails extended and extensions added to the springs and mattress;

Figure 2 is a perspective view illustrating a portion of the angle lines of the spring and extension spring connected into a unitary structure;

Figure 3 is a fragmentary detail view illustrating another form of connection between the spring and the extension spring;

Figure 4 is an end view partly in section of the structure illustrated in Figure 3;

Figure 5 is a sectional detail view illustrating the manner in which the spring and extension spring may be connected in cases where the units include marginal tubing or circular reinforcing structure;

Figure 6 is a sectional view illustrating the manner in which a spring having a marginal angle arm may be connected with a section having a tubular marginal member;

Figure 7 is a detail view illustrating a different form of connection between the tubular structure of the spring and spring extension;

Figure 8 is a view similar to Figure 7 but illustrating the two tubular units arranged in juxtaposed relation;

Figure 9 is a fragmentary view illustrating a bed rail extension;

Figure 10 is a sectional view along the line 10—10 of Figure 9; and

Figure 11 is a fragmentary view of a mattress illustrating the mattress extension to be connected therewith.

In the embodiment selected to illustrate my invention the bed 10 includes the usual head and foot units 11 and 12 interconnected by side rail

13 for supporting the bed spring 14, which in turn carries the mattress 15. In Figure 1 I illustrate the extended side rail 13 as supporting a spring extension 16 and a mattress extension 17. Extension 16 is connected as a unit with the spring 14 while mattress extension 17 is also connected as a unit with the mattress 15.

In Figure 2 I illustrate one method of connecting the bed spring with the spring extension. In springs including an angle iron 13 about its perimeter the spring section, or extension 16, may also include a similar angle iron 19. The flanges 20 of the angle irons 13 and 19 are provided with aligned bores at necessary intervals, three being sufficient. Between the flanges 20 I position top position washers, one of which is indicated at 21 in Fig. 2. The bolt 22 passes through aligned openings in the flanges 20 and is tightened through the medium of a nut 23 for connecting the spring and the spring extension. The bolt may be associated with the upper angle iron of the bed spring and the spring extension.

In Figure 3 I illustrate one of the bed springs, angle irons 24 connected with the angle iron 25, and the spring extension through the medium of a board 26 having a hinged connection at 27 and 28 with the angle iron 24 and hinged connection 29 with the angle iron 25.

In cases where the perimeter of the bed spring and the spring extension includes tubing or reinforcing bars of circular cross section, the spring and extension units may be connected according to Figure 5. In this figure I illustrate one clamp. The clamp comprises sections 30 bowed or bent at 31 to embrace the spring and spring extension tubing 32 and 33, respectively. The parts 30 are bored for the reception of a bolt 34, which when tightened, clamp the parts firmly upon the tubing 32 and 33, thus effectively connecting the spring extension with the bed spring. Clamps may be spaced at considerable intervals.

Figure 6 illustrates the bed spring angle iron 35 connected with the tubular member 36 as the spring extension. In this construction the hook 37 partly encircles the tubular member 36 and includes a shank 38 passing through an opening in the flange 39 of the angle iron 35. Shank 38 is threaded for the reception of a nut 40, which when tightened clamps the flange 39 between the washer 41 and the hook 37. These hooks are spaced at considerable intervals; three being sufficient. Figure 7 illustrates another method of connecting tubular member in both the bed spring and the spring extension. A

wood block 42 is positioned underneath the tubular frame members 45 of the bed spring and spring extension. The block is bored to receive two bolts 43 each provided with a hook 44. One hook 44 is engaged over one of the tubular frame members 45 and the other hook 44 is engaged over the other tubular member 45. The bolts are provided with nuts 46 and the block 42 is firmly clamped against the two members 45 through tightening of the nuts 46 for connecting the spring and the spring extension. Washers 47 are interposed between the nuts 46 and the bottom face of the block 42. Three blocks are sufficient for connecting the spring and the spring section.

Fig. 8 illustrates a wood block 42 which is somewhat shorter than the block 42, which block is also positioned underneath the spring and extension frame members 50. The block 48 is also bored for reception of hook bolts 43, with one hook engaging over one of the frame members 50 and the other hook engaging over the other frame member 50. Thus the block 48 is firmly clamped against the two frame members 50 through tightening of the nuts 51.

Figures 9 and 10 illustrate one method of extending the side rails 13. In Figure 9 the side rail is cut to provide sections 52 which are spaced with a filler section 53 positioned between the sections 52 and welded thereto. Reinforcing straps 54 and 55 may be welded to the sections 52 and the filler section 53 for reinforcing the rail at the point of connection.

Figure 11 illustrates the mattress 15 and the mattress extension 17 spaced therefrom preparatory to connecting the two parts. Mattress 15 includes rounded corners 56 while the extension 17 includes curvatures 57 shaped to fit tightly

about the curved corners. The tape 58, on the bed mattress 15, is severed at 59 and loosened across the end of the mattress and partly along its sides as at 60. Extension 17 includes fabric strips 61 which may be sewed to the mattress 15 after the extension 17 has been moved into abutting relation with the mattress. At the same time, the extension 17 is sewed to the mattress 15 transversely along the lines of contact while the tape strips 60 may be sewed to the extension 17 along its corners.

My invention provides means for extending the length of conventional beds to accommodate occupants of more than normal height. In addition to lending extension to conventional bed structures the application of the extension necessitates no reconstruction of the springs or the mattress. A bed incorporating my invention takes the appearance of a conventional bed with the exception of length.

What is claimed is:

In combination, a bed spring having a reinforcing member, a spring extension having a reinforcing member, a block extending underneath said reinforcing members, said reinforcing members paralleling each other and being slightly spaced, said block being provided with openings, bolts extending through said openings and each having a hook engaging over one of said reinforcing members, and nuts threaded on said bolts and coacting with said block for clamping said reinforcing members against the block, said bolts projecting through the space between said reinforcing members and the hook engaging over one of said reinforcing members being reversed with respect to the hook engaging over the other reinforcing member.

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