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LEE RAIL FOR BEDS

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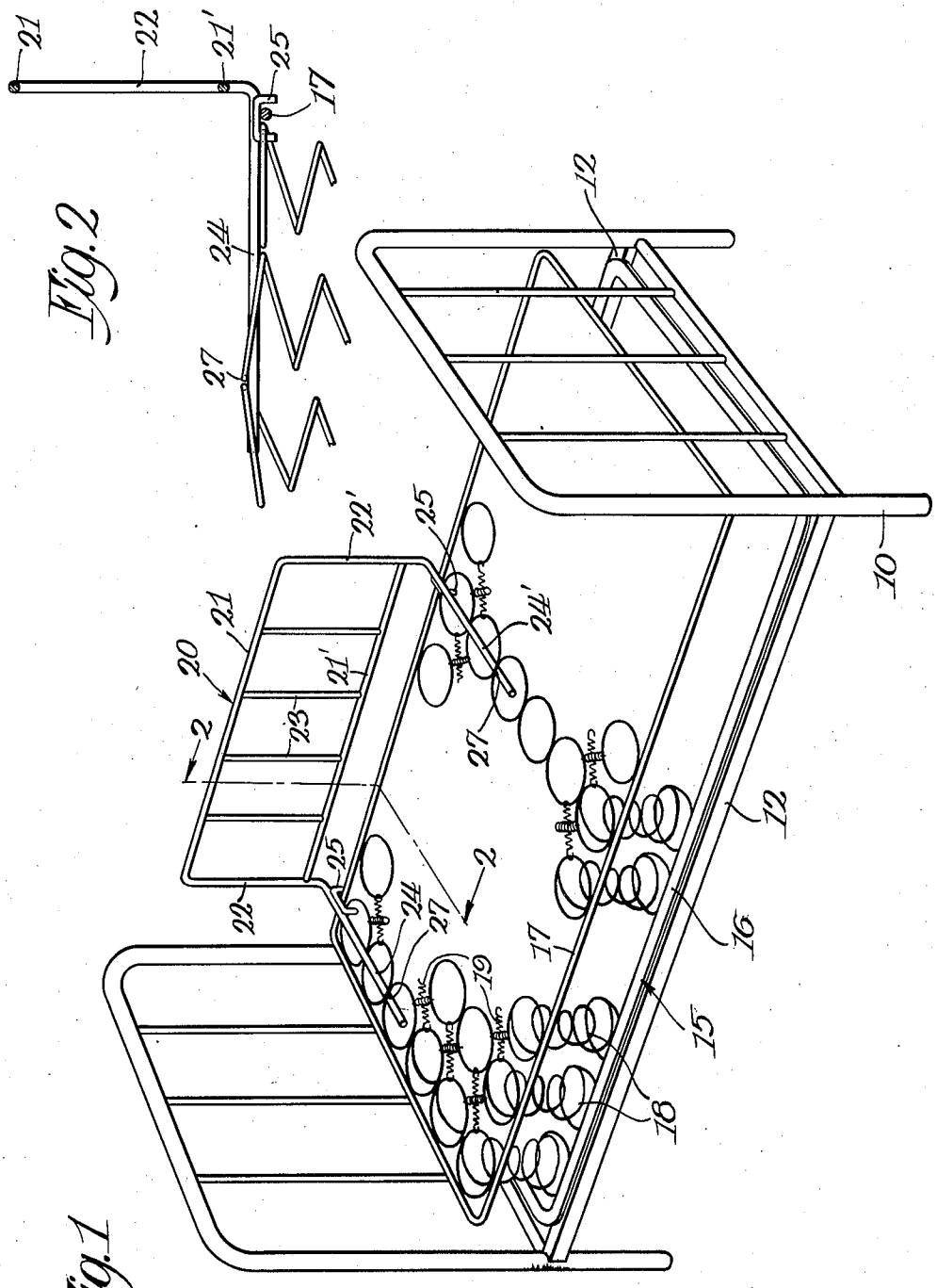


Fig. 2

Fig. 1

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LEE RAIL FOR BEDS

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My invention relates to bedsteads and has to do more particularly with a demountable lee rail which may be quickly and easily mounted on or demounted from bedsteads of a type commonly in use.

An object of my invention is to provide such a device which will be simple in construction, inexpensive to fabricate, easy to adjust by persons of no mechanical skill and of limited physical strength, and which is at the same time durable.

Various other objects and advantages will become readily apparent to those skilled in the art as the description proceeds.

Referring now to the drawing forming part of this specification and illustrating a preferred embodiment thereof:—

Fig. 1 is a perspective view of a bed with a device embodying my invention mounted thereon, and

Fig. 2 is a sectional view taken substantially on the line 2—2 of Figure 1.

The numeral 10 indicates generally a bedstead which may be of any type well-known or of other construction having side rails 12 on which is mounted a spring indicated generally at 15. The spring as shown is of a common type having lower rails 16 resting upon the side rails 12 of the bed and an upper rectangular frame member 17, a plurality of coil springs 18 being arranged between the frame member 17 and the lower rails 16, the coils being connected by means of helicals 19. The coils and helicals may be arranged in any suitable manner, and it will be understood that, although I have shown them in a certain arrangement with crossed helicals, I do not intend to be limited to any such form of spring, since devices embodying my invention may be applied to a wide variety of other types.

A rail embodying my invention is indicated generally at 20 and preferably comprises substantially horizontal side bars 21 and 21′, the bar 21 being bent downwardly at opposite ends to form substantially vertical portions 22, 22′, to which latter the horizontal bar 21′ is connected as by welding or the like, while a plurality of substantially vertical reinforcing bars 23 extend between the bars 21 and 21′. At their lower extremities the vertical bars 22 and 22′ are bent laterally to form extensions 24—24′, these extensions lying in substantially the same plane which is perpendicular to that represented by the bars 21, 22, and 22′.

Preferably secured to the bars 24 and 24′, as by welding, on the inner sides thereof adjacent the corners where they join the bars 22 and 22′, respectively, are U-shaped members 25.

As clearly shown in Figure 1, the side rail 20 is secured to the bed by slipping the laterally extending bars 24 and 24′ under the upper turns of certain of the coils 18, as indicated at 27, while the U-shaped members 25 are brought into engagement with that portion of the upper frame 17 of the spring which is to be adjacent the side rail. As shown in Figure 2, the members 25 may also be resiliently engaged by the springs 18. It will thus be seen that the rail is securely fastened to the bed since the U bars 25 prevent lateral or sliding movement thereof while the engagement of the bars 24 and 24′ under the coil springs prevents any tilting or rocking movement of the rail in the event that a lateral force is applied thereto from the bed. It will be apparent that the rail may be readily disengaged from the bed by merely raising the side portion so as to disengage the U bars from the frame and coil springs and then slipping the bars 24 and 24′ out of engagement with the coils.

Various changes and modifications coming within the spirit of my invention doubtless will be apparent to those skilled in the art from the disclosure herein given. Hence, I do not wish to be limited to the particular form shown or uses mentioned except as set forth in the appended claims, which are to be interpreted as broadly as the state of the art will permit.

I claim as my invention:

1. In a device of the class described, a side panel of sufficient height to retain a body rolling outwardly of a bed and comprising a peripheral frame formed of a rod or the like, said frame having a top portion and a pair of side portions, said side portions being bent

to form lateral extensions, a member joining said side portions substantially parallel to said top portion, strut members connecting said top portion and said parallel member, and a pair of spaced downwardly extending members secured to said extensions, said last named members being adapted freely to straddle a portion of a spring upon a downward movement of said device.

2. In a device of the class described, a side panel of sufficient height to retain a body rolling outwardly of a bed and comprising a peripheral frame formed of a rod or the like, said frame having a top portion and a pair of side portions, said side portions being bent to form lateral extensions, a member joining said side portions substantially parallel to said top portion, strut members connecting said top portion and said parallel member, and a pair of spaced downwardly extending members secured to said extensions adjacent their juncture with said side portions, said last-named members being adapted freely to straddle a portion of a spring upon a downward movement of said device.

3. A lee rail for beds comprising a pair of relatively spaced bars provided adjacent to their outer ends with inverted U-shaped brackets secured thereto and forming downwardly facing recesses, inner end portions of said bars being adapted to be inserted beneath portions of a resilient bed bottom at points spaced inwardly from a side edge portion of the bed bottom, outwardly disposed portions of said bars being adapted to overlie portions of said bed bottom with said recesses receiving portions of the bed bottom adjacent to said side edge for locking the bars against endwise displacement, and a panel structure connected to and extending upwardly adjacent said side edge portion of the bed bottom from outer end portions of said bars, said panel being of sufficient height to project upwardly beyond the top surface of a mattress disposed on said bed bottom.

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