May 23, 1950 W. C. NIELSEN 2,508,795

MATTRESS HARNESS

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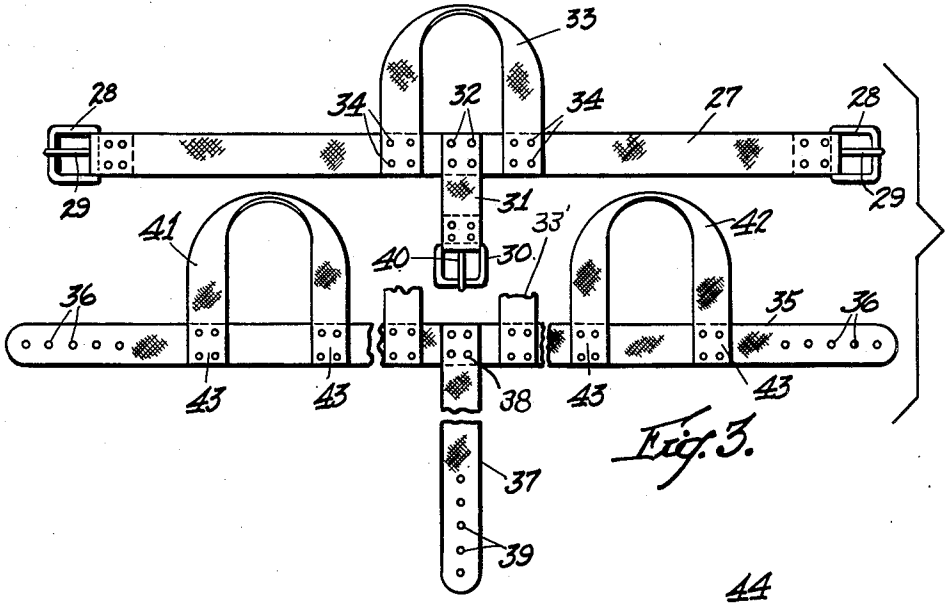


Fig. 3.

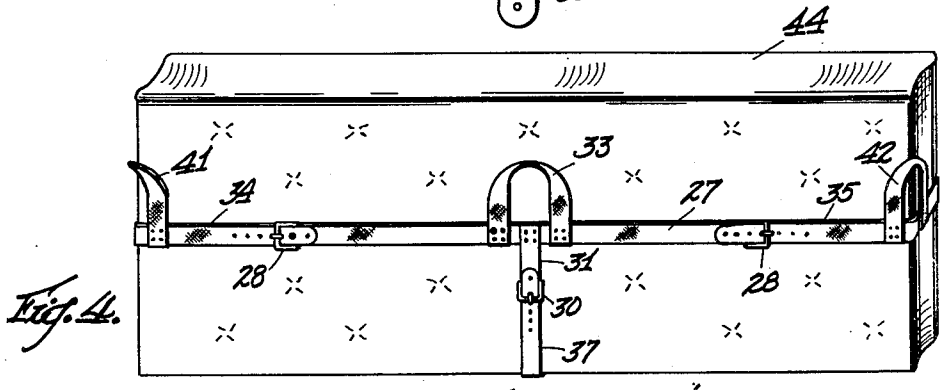


Fig. 4.

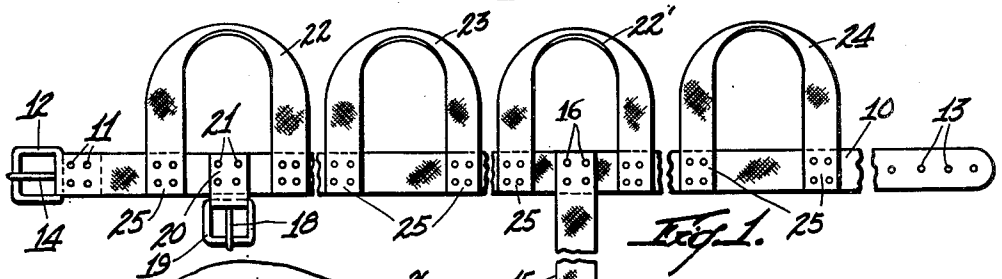


Fig. 1.

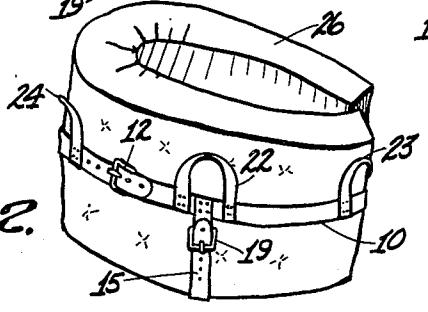
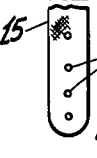


Fig. 2.



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MATTRESS HARNESS

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2 Claims. (Cl. 224—53)

1

The present invention relates to a harness and, more particularly, to a harness which may be readily applied to a bed mattress, or other such bulky article, so as to facilitate the manual handling thereof.

It is a primary object of the present invention to provide a harness of the above described character which may be quickly and easily assembled about and disassembled from a mattress and, at the same time, be inexpensive of manufacture.

With the above and other objects in view, as will hereinafter appear, the invention comprises the devices, combinations, and arrangements of parts hereinafter set forth and illustrated in the accompanying drawings of a preferred embodiment of the invention from which the several features of the invention and the advantages attained thereby will be readily understood by those skilled in the art.

Fig. 1 represents a preferred embodiment of the present invention.

Fig. 2 represents, on a smaller scale, the harness disclosed in Fig. 1 as applied to a mattress.

Fig. 3 represents a modified form of the present invention.

Fig. 4 represents, on a smaller scale, the harness disclosed in Fig. 3 as applied to a mattress of the inner-spring type.

Referring particularly to Figs. 1 and 2, the first form of the invention comprises a girth strap 10 which may be constructed of cloth webbing or leather material. One end portion of this girth strap has secured thereto, by means of a plurality of rivets 11, a tongue buckle 12, while the opposite end of the strap 10 is provided with a plurality of apertures 13, 13 which are adapted to receive a tongue 14 of the buckle 12. Depending from the girth strap 10 is a support strap 15 which is secured to the girth strap 10 by means of a plurality of rivets 16. The free end portion of the support strap 15 is provided with a plurality of apertures 17, 17 which are adapted to receive a tongue 18 which is associated with a second tongue buckle 19, which, in turn, is secured to the girth strap 10 by means of an auxiliary strap 20. Rivets 21 secure strap 20 to the girth strap 10. Secured at spaced points along the length of the strap 10 are four handle members 22, 22', 23 and 24. Each of these handle members has its opposite end portions appropriately riveted to the girth strap 10, as at locations 25, 25.

It is to be understood that, instead of the various above noted rivets, the present harness may

2

have its divers elements secured together by means of stitches. Furthermore, in place of the tongue buckles 12 and 19, various other forms of buckles or slides may be used.

Referring particularly to Fig. 2, in using the above described harness strap, a usual type of mattress 26 may be folded lengthwise of itself and, thereafter, the girth strap 10 may be secured thereabout by passing the apertured end portion of the strap through the buckle 12 in the usual manner. After the strap 10 has been tightened about the mattress to an appropriate degree, the free end of the support strap 15 may be passed under the bottom of the mattress 25 and thereafter secured to the buckle 19. As may be seen from Fig. 2, after the harness has been appropriately secured or assembled about the mattress 26, the various handles 22, 23 and 24 of the unit are disposed in a manner such that the manual handling of the mattress is greatly facilitated. In other words, by using the present form of harness, one will be able to carry the mattress 26 from one place to another with relative ease by merely lifting the folded unit by means of the upwardly projecting handle members. It is to be particularly understood that the handles 22 and 22' are disposed directly over the straps 15 and 20, so that in the event one person is to handle the folded mattress, these handles will be located in positions such that the harness will have no tendency to shift off of the mattress, while the same is being transported. In other words, either handle 22 or 22' is adapted to support the entire mattress load. It should be quite obvious, however, to those skilled in the art that the above described harness may be equally well applied to other bulky articles other than the bed mattresses.

The Figs. 3 and 4 disclose a modified form of the present invention. Referring particularly to Fig. 3, this modified form of the present invention comprises a primary girth strap 27, each of the opposite end portions of which is provided with a tongue buckle 28, having associated therewith a usual tongue member 29. Depending from an intermediate portion of the strap 27 is a third tongue buckle 30 which is appropriately secured to the strap 27 by means of an auxiliary or buckle strap 31 and rivets 32. Secured to the girth strap 27 at opposite sides of the buckle strap 31 are the free end portions of a handle member 33. Rivets 34, 34 secure the opposite end portions of the handle 33 to the girth strap 27.

Associated with the primary girth strap 27 is a secondary girth strap 35 having its opposite end

portions provided with apertures **36, 36** which are adapted to receive an appropriate one of the buckle tongues **29, 29**. Depending from an intermediate portion of the strap **35** is a support strap **37**, the one end portion of which is secured to the strap **35** as by means of rivets **38**. The free end portion of this support strap is provided with apertures **39** which are adapted to receive a tongue **40** of the tongue buckle **30**. At either side of the support strap **37** are disposed handle members **41** and **42**, the free end portions of which are adapted to be secured to the secondary girth strap **35** at locations **43, 43**. A handle **33'** is similarly secured to the strap **35** so as to straddle strap **37**.

Fig. 4 illustrates the second form of the invention as applied to a mattress **44** of the so-called inner-spring type which usually takes the form of a substantially rigid unit which cannot be folded in the manner of the mattress **26**. Referring particularly to Fig. 4, it is to be understood that the second form of the invention is applied to the mattress **44** by securing the primary and secondary girth straps **27** and **35** together, so that they will completely encircle the mattress. In other words, the apertured end portions of the strap **35** are passed through the buckles **28, 28** so that the girth straps **27** and **35** may tightly encompass the unit **44**. Thereafter, the support strap **37** may be passed through the buckle **30** as to lock the girth straps in their proper positions. As in the case of the first form of the present invention, after the modified form of harness has been applied to the mattress **44**, it is to be understood that the various members **33, 33', 44** and **42** will be located in such spaced positions about the girth straps so that one may readily handle the mattress **44** either alone or with the help of an associate. Also, as in the case of the first form of the invention it is to be noted that the handles **33** and **31'** are disposed directly above the support straps **31** and **37** so as to be capable of assuming the full load of the mattress **44** in a manner such that the harness will not tend to slip off of the mattress. Thus, by grasping either of the handles **33** or **33'**, one may readily transport the mattress without requiring any additional help. Of course, when the second form of the harness is used, it is not necessary to disassemble the straps **27** and **35** completely and, as a matter of fact, one would normally leave one end of the strap **35** buckled to the strap **27** and thus facilitate the handling of the harness. For all intents and purposes, therefore, the straps **27** and **35** may be considered as a single unit with one of the buckles **28, 28** functioning as means whereby the length of the composite girth strap may be either lengthened or shortened to suit the particular desires of the user.

From the above, it is to be understood that the present invention comprises a device which is designed in a manner such that it may be inexpensively manufactured but which, at the same time, presents a harness which may be quickly and easily applied to a variety of bulky articles for the purpose of facilitating the manual handling of the same.

I claim:

1. An article of the class described comprising, a girth strap, a buckle carried at one end of said girth strap for detachably securing the two opposite end portions thereof about an article to be carried, a support strap having one end portion thereof secured to said girth strap so that the support strap will extend transversely away from said girth strap, a second buckle carried by said girth strap at a location normally remote from said support strap for detachably securing the free end of said support strap to said girth strap so that said support strap may partially encircle the article to be carried, and a plurality of spaced handle members secured to said girth strap so as to project away from said girth strap in a direction opposite to that of said support strap, one of said handle members being mounted adjacent said second buckle.

2. An article of the class described comprising, a primary girth strap having a buckle secured at each of its two opposite end portions, a secondary girth strap having each of its opposite end portions adapted to be attached to a respective one of said buckles so that said girth straps may be tightened about an article to be carried, a support strap secured intermediate the ends of said secondary strap so as to extend transversely away therefrom, a third buckle secured intermediate the ends of said primary girth strap so as to receive the free end of said support strap which may partially encircle the article to be carried in a plane disposed at right angles to a plane defined by said girth straps, and a pair of handle members of which one is secured to said primary girth strap adjacent said third buckle while the other is secured to said secondary girth strap adjacent one end of said support strap, each of said handles being secured to their respective girth straps so as to project away therefrom in a direction opposite to that of said support strap.

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