Nov. 18, 1958 J. A. BYER 2,860,353

HANDLE FOR MATTRESSES AND THE LIKE

Filed April 3, 1957 2 Sheets-Sheet 1

Fig. 1.

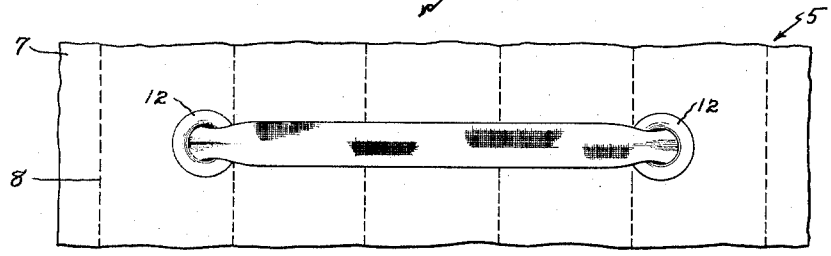


Fig. 2.

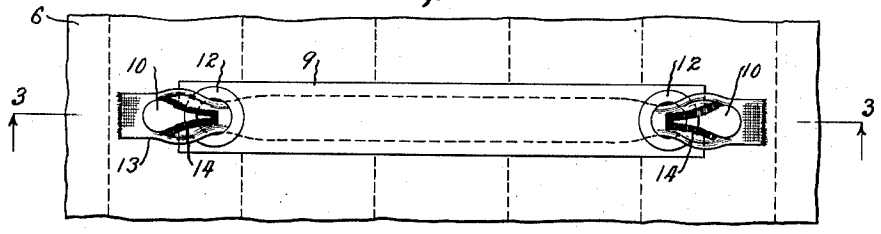


Fig. 3.

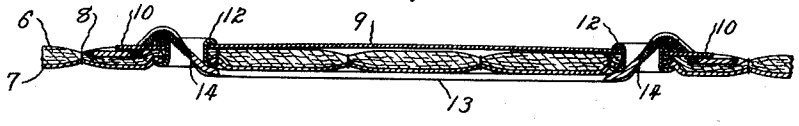


Fig. 4.

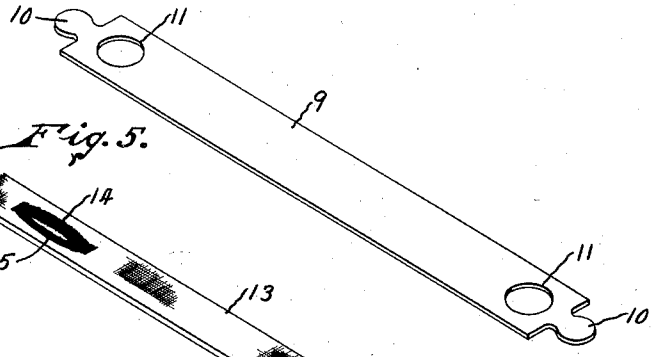
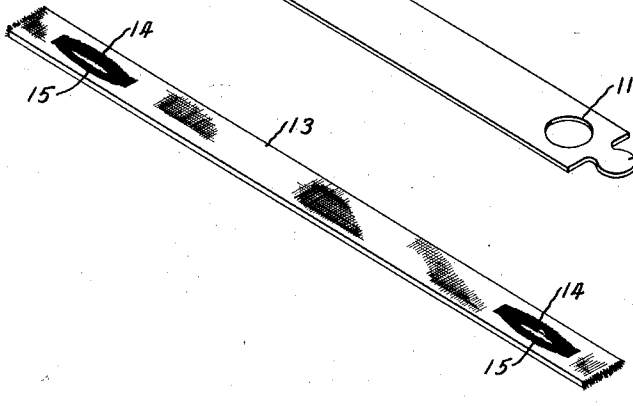


Fig. 5.



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Fig. 6.

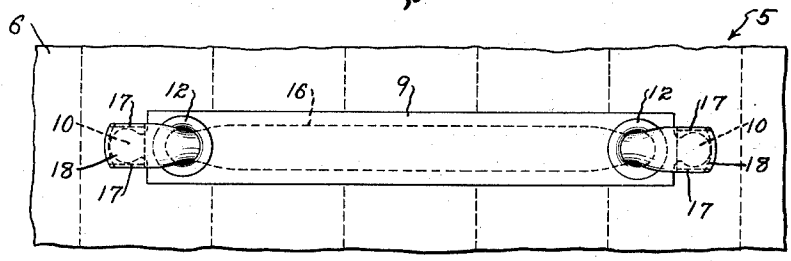


Fig. 7.

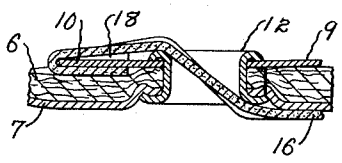


Fig. 8.

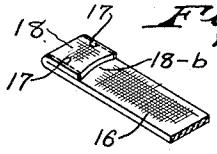


Fig. 9.

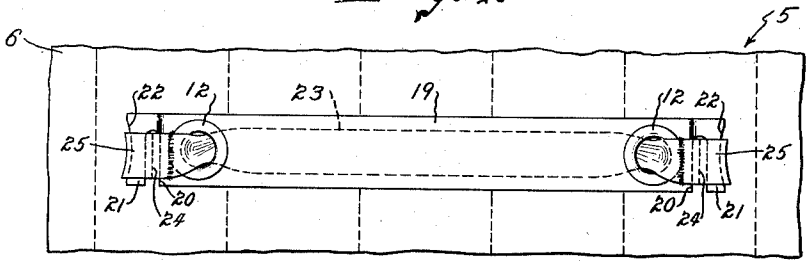


Fig. 10.

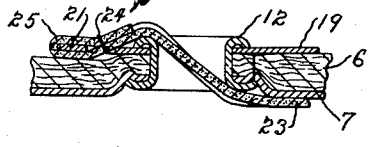


Fig. 11.

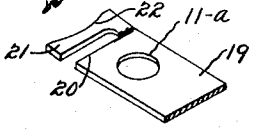
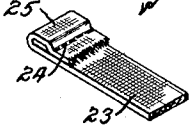


Fig. 12



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2,860,353

Patented Nov. 18, 1958

2,860,353

HANDLE FOR MATTRESSES AND THE LIKE

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Application April 3, 1957, Serial No. 650,333

14 Claims. (Cl. 5—345)

This invention relates to handles and more particularly to handles which are primarily intended for use on mattresses, but which may be readily used on similar articles such as cushions and the like.

The primary object of this invention is to provide mattress handles having novel features of construction which render them inexpensive to produce and yet strong and durable.

A further object of this invention is to provide mattress handles which lie flat against the side wall of the mattress and are constantly under tension so that they will not become loose.

An important feature of my invention resides in the use of a handle member which is made of a woven fabric tape and is so formed that it may be attached directly to the anchoring member on the inside of the mattress wall, thus eliminating the necessity of providing separate anchoring means on the handle member as with previous constructions.

Further objects and advantages of this invention will be more clearly understood from the following description and the accompanying drawings in which:

Fig. 1 is an elevational view illustrating the external appearance of the various forms of handles disclosed in this application.

Fig. 2 is an elevational view of the inside of the mattress wall illustrating the preferred embodiment of the invention.

Fig. 3 is a sectional view of the mattress handle illustrated in Fig. 2, taken substantially on line 3—3 thereof.

Fig. 4 is an isometric view of the anchoring bar used in the forms illustrated in Figs. 2, 3, 6 and 7.

Fig. 5 is an isometric view of the handle member illustrated in Figs. 2 and 3.

Fig. 6 is an elevational view of the inside of the mattress wall illustrating a modified form of handle member.

Fig. 7 is an enlarged fragmentary view, in central horizontal section, further illustrating the manner in which the modified handle member is attached to the anchoring bar.

Fig. 8 is an isometric view showing one end of the modified handle member, the opposite end being the same.

Fig. 9 is an elevational view of the inside of the mattress wall illustrating a further modification of the present invention.

Fig. 10 is an enlarged fragmentary view, in central horizontal section, further illustrating the construction of the handle illustrated in Fig. 9.

Fig. 11 is an isometric view of one end of the anchoring bar illustrated in Fig. 9, the opposite end being identical therewith.

Fig. 12 is an isometric view of one end of the handle member illustrated in Fig. 9, it being understood that the opposite end is the same.

In Fig. 1 of the drawings, I have shown the external appearance of the three forms of the handles disclosed in the present application when mounted on a side wall of a conventional mattress. Said side wall, indicated at 5, comprises a layer of padding material 6 having an exterior covering 7 thereon and is quilted by rows of vertical stitches 8.

In the preferred embodiment of the present invention illustrated in Figs. 2 through 5, my improved mattress handle consists of an elongated, resilient anchoring bar 9 which is made of spring steel and has tongues 10—10 extending longitudinally from the opposite ends thereof. Said tongues are narrower than the bar and are preferably rounded to thereby eliminate any sharp edges that might otherwise tear or fray the handle member or the side wall of the mattress. The anchoring bar also has centrally located openings 11—11 adjacent its opposite ends and said bar overlies the inner surface of the side wall 5 of the mattress and is secured thereto by a pair of eyelets 12—12 which extend through the mattress wall and through the openings 11—11.

The handle member itself, indicated at 13, consists of a length of strong flexible fabric tape of a conventional type which is provided adjacent its opposite ends with longitudinally extending openings 14—14 of a size to receive the tongues 10—10, and the edges of said openings are reinforced with stitching 15. Said openings are inwardly spaced from their respective ends of the handle member and the overall length of the handle member is somewhat greater than the length of the anchoring bar for a purpose to be hereinafter described.

The handle member 13 overlies the outer surface of the mattress wall between the eyelets 12—12 and its opposite ends extend through the eyelets and over their inner edges, as illustrated in Figs. 2 and 3. The handle member is attached to the anchoring bar by passing its ends over the respective tongues 10—10. The distance between the opposite ends of the openings 14—14 is such that it is necessary to bend the anchoring bar in order to attach the handle member. When the bar resumes its normal position, it will stretch the handle member taut against the outer surface of the mattress and will urge the tongues through the openings 14—14 therein. It will be noted from Figs. 2 and 3, that the portions of the handle member outwardly of the openings are disposed between the tongues and the inner surface of the mattress wall and thus protect the mattress wall against damage by the tongues.

It will be understood that the anchoring bar will yield sufficiently to permit the insertion of one's hand between the handle member and the mattress, and that when the handle member is released, the anchoring bar will resume its normal position and thus tension the handle member to retain it against the mattress wall.

In the modified form of the invention illustrated in Figs. 6 through 8, the anchoring bar 9 above described is again used, but a different type of handle member is connected thereto. The modified handle member, illustrated at 16, is also made of a woven fabric tape, but its opposite ends are folded over and stitched to the handle along its side edges, as indicated at 17, to thus provide oppositely disposed pockets 18—18 at the opposite ends of the handle member each having an opening 18–*b* leading thereinto extending transversely across the handle member. These pockets are adapted to receive the tongues 10—10 on the anchoring bar and the distance between the outer ends of the pockets is somewhat less than the overall length of the bar so that the handle is tensioned by the anchoring bar and the tongues are urged into the pockets therein. It will be noted, from Fig. 7, that the outer sides of the pockets are disposed between their respective tongues and the inner surface of the mattress wall and thereby protect said wall from damage.

The modified handle construction illustrated in Figs. 9 through 12 includes an anchoring bar 19 which is also made of spring steel and is provided adjacent its opposite

ends with notches 20—20 which extend transversely of the bar from an edge thereof and form a pair of laterally extending tongues 21—21 on the opposite ends of the bar. The outer edges of the tongues are recessed slightly, as at 22, and each end of the anchoring bar is provided with an opening 11-*a* inwardly of the notch 20 therein which receives one of the eyelets 12—12. If desired, the tongues 21—21 may be bent upwardly at a slight angle to prevent them from digging into the mattress wall.

A handle member 23, which is also formed of flexible tape, is provided for use with the bar 19 and the opposite ends of the said handle member are folded over and stitched down, as indicated at 24, to form a transversely extending loop 25 at each end of the handle member. The handle member is attached to the anchoring bar by passing the loops over the tongues 21—21, as illustrated in Figs. 9 and 10, and, as with the other forms of the invention, the loops are so located that the anchoring bar exerts a tension on the handle to retain it flat against the outer surface of the mattress wall. The recesses 22—22 in the outer edges of the tongues assist in retaining the loops thereover so that there is no tendency for said loops to slip off of the tongues.

In each of the forms of the invention illustrated herein, it will be noted that no separate attachments are provided on the handle members for securing them to the anchoring bar and thus the manufacture of the handles is greatly simplified, while no sacrifice in strength is made.

I claim:

1. In combination with a mattress wall, a mattress handle comprising an anchoring bar overlying the inner surface of said mattress wall, a pair of spaced eyelets extending through said wall and said bar inwardly of the opposite ends of said bar and securing the bar to the wall, a handle comprising a strip of flexible fabric tape overlying the outer surface of said wall between said eyelets and having its opposite ends extending therethrough, said handle having openings adjacent its opposite ends whereby said ends may be passed over the respective ends of said anchoring bar to thereby connect said handle to said anchoring bar.

2. In combination with a mattress wall, a mattress handle comprising an anchoring bar overlying the inner surface of said mattress wall, a pair of spaced eyelets extending through said wall and said bar and securing the bar to the wall, a pair of tongues projecting from said bar, a handle comprising a strip of flexible fabric tape overlying the outer surface of said wall between said eyelets and having its opposite ends extending therethrough, said handle having openings adjacent its opposite ends whereby said ends are adapted to be passed over said tongues to thereby connect the opposite ends of said handle to said anchoring bar.

3. In combination with a mattress wall, a mattress handle comprising anchoring means disposed against the inner surface of said mattress wall, a pair of spaced eyelets extending through said wall and said anchoring means and securing the anchoring means to the wall, a pair of opposed tongues extending from said anchoring means outwardly of said eyelets, a flexible handle overlying the outer surface of said mattress wall between said eyelets and having its opposite ends extending therethrough, said opposite ends of the handle having openings adapted to receive said tongues whereby said ends are adapted to be attached to said anchoring means to secure the handle to said mattress wall.

4. In combination with a flexible mattress wall, a mattress handle comprising a resilient anchoring bar overlying the inner surface of said mattress wall, a pair of spaced eyelets extending through said wall and said bar inwardly of the opposite ends of said bar and securing the bar to the wall, a tongue extending from each end of said bar, a flexible handle overlying the outer surface of said wall and having its opposite ends extending through said eyelets, said handle member having openings at its opposite ends whereby said ends are adapted to be passed over said tongues thus connecting the ends of said handle to said anchoring bar, said anchoring bar bending to permit attachment of said handle and normally tensioning said handle to retain it against the outer surface of said mattress wall.

5. In combination with a mattress wall, a mattress handle comprising an anchoring bar overlying the inner surface of said mattress wall and having a tongue projecting longitudinally from each end thereof, a pair of eyelets extending through said wall and said bar inwardly of the opposite ends of the bar and securing the bar to the wall, a flexible handle having openings therethrough adjacent its opposite ends, said handle overlying the outer surface of the mattress wall and having its opposite ends extending through said eyelets, said tongues being adapted to be passed through said openings to thereby secure the handle to the anchoring bar and overlying the portions of said handle outwardly of said openings whereby said tongues are spaced from and prevented from injuring said mattress wall.

6. In combination with a flexible mattress wall, a mattress handle comprising a resilient anchoring bar overlying the inner surface of said mattress wall and having tongues of reduced width projecting longitudinally from the opposite ends thereof, a pair of spaced eyelets extending through said wall and said bar adjacent the opposite ends of the bar and securing said bar to the wall, a flexible handle having openings adjacent its opposite ends overlying the outer surface of said wall with said opposite ends extending through said eyelets, said tongues being adapted to extend through said openings whereby said handle is connected to said anchoring bar, said anchoring bar bending to permit attachment of said handle member and normally tensioning said handle member to retain it against the outer surface of said mattress wall.

7. In combination with a mattress wall, a mattress handle comprising an anchoring bar overlying the inner surface of said mattress wall and having tongue portions at its opposite ends, a pair of spaced eyelets extending through said wall and said bar and securing the bar to the wall, a flexible handle overlying the outer surface of said wall between said eyelets and having its opposite ends extending therethrough, means providing opposed pockets at the opposite ends of said handle which are adapted to receive said tongue portions whereby said handle is connected to said bar.

8. The subject matter set forth in claim 7 wherein said anchoring bar is resilient and normally tensions said handle to urge said tongues into said pockets.

9. The subject matter set forth in claim 7 wherein the opposite ends of said handle are folded over and stitched along the edges of the handle to thereby form said pockets.

10. In combination with a mattress wall, a mattress handle comprising an anchoring bar overlying the inner surface of said mattress wall and having tongues extending laterally thereof, a pair of spaced eyelets extending through said wall and said bar and securing the bar to the wall, a flexible handle overlying the outer surface of said mattress wall between said eyelets and having its opposite ends extending therethrough, said opposite ends of the handle member having loops providing transversely extending openings adapted to receive said tongues whereby said handle is connected to said anchoring bar.

11. In combination with a mattress wall, a mattress handle comprising an anchoring bar overlying the inner surface of said mattress wall and having notches extending inwardly from an edge thereof adjacent its opposite ends providing laterally extending tongues on said bar, a pair of spaced eyelets extending through said wall and

said bar inwardly of said notches and securing the bar to the wall, a flexible handle overlying the outer surface of said wall between said eyelets and having its opposite ends extending therethrough and attached to said tongues whereby said handle is secured to said anchoring bar.

12. The subject matter set forth in claim 11 wherein the opposite ends of said handle are provided with loops adapted to receive said tongues.

13. In combination with a mattress wall, a mattress handle comprising an anchoring bar overlying the inner surface of said mattress wall, a pair of spaced eyelets extending through said wall and said bar and securing the bar to the wall, a single tongue formed at each end of said bar outwardly of the adjacent eyelet, a handle comprising a strip of flexible fabric tape overlying the outer surface of said wall and having its opposite ends extending through said eyelets, said tape being provided with a single opening in each of its opposite end portions, each of said openings receiving one of said tongues whereby said handle is attached to said anchoring bar.

14. In combination with a mattress wall, a mattress

handle comprising an anchoring bar overlying the inner surface of said mattress wall, a pair of spaced eyelets extending through said wall and said bar and securing the bar to the wall, a tongue formed at each end of said bar outwardly of the eyelet, a handle comprising a strip of flexible fabric tape overlying the outer surface of said wall and having its opposite ends extending through said eyelets, said tape being provided with openings in its opposite end portions for receiving said tongues whereby said portions may be passed over their respective tongues to connect said handle to said anchoring bar, portions of said tape being disposed between said tongues and said mattress wall to prevent damage to said wall by said tongues.

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