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MATTRESS AND CUSHION HANDLE

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Fig. 1

Fig. 5

Fig. 2

Fig. 3

Fig. 4

Fig. 6

Fig. 7

Fig. 8

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MATTRESS AND CUSHION HANDLE

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My invention relates to an improvement in mattress and cushion handles, wherein it is desired to provide a simple handle which may be made at an extremely low cost and which will operate as effectively as virtually any type of handle.

Various types of mattress handles have previously been constructed. In most of these, the reinforcing bar was within the mattress, and a flexible handle was positioned outside. Former handles with which I am familiar have comprised more pieces to be assembled. If ventilators have been used, the securing grommet has been provided with a screen, raising the cost of these grommets.

It is the purpose of the present invention to provide a flat handle of an economical structure, with rounded, smooth, reinforced edges, which has the securing means integrally connected therewith, so that the handle may be economically attached to the mattress wall and firmly secured in place. By such construction, the necessity of passing the handle through the mattress wall and anchoring the same is obviated, and as the grommet or securing means is integral with the handle, these elements need not be handled separately. Only a riveting tool is necessary to attach the handle.

It is a purpose of the present invention to provide a handle which requires no continuous reinforcing bar on the inside of the mattress wall, as the handle itself is rigid. Therefore, it is necessary only to provide washers or the like, on the inside of the mattress wall to which the handle may be attached.

It is a further object of my invention to provide a handle which may be stamped out of lightweight material and which may be secured to grommets or the like, in a novel manner so that the completed handle may be assembled at a minimum of cost. In the preferred form, the edges of the handle are marginally folded inwardly, providing a handle with rounded edges. The inwardly folded edges of the handle are designed to engage the flange of a grommet at each end of the handle, so that the grommet end and handle are integrally secured together. The handle thus formed may be easily attached in the formation of the mattress, by passing the grommet through the mattress wall and through a suitable reinforcing washer and riveting the end of the grommet over the washer.

It is a further feature of my invention to attach the grommet to the handle along the rear surface of the handle and to form one or more

openings in alinement with the grommet to provide ventilating openings through the mattress wall in a simple and effective manner. While it is understood that ventilating means have been previously formed in combination with mattress handles, this type of ventilator construction is believed entirely novel.

These and other objects and novel features of my invention will be more clearly and fully set forth in the following specification and claims.

In the drawing forming part of this specification:

Figure 1 is a perspective view of my handle attached to a mattress wall.

Figure 2 is an elevational view of my mattress handle before the same is attached to the mattress wall.

Figure 3 is a plan view of the handle described in Figure 2.

Figure 4 is an elevational view of the rear side of the handle illustrated in Figures 1, 2 and 3.

Figure 5 is a longitudinal sectional view through the center of my handle after attachment to a mattress wall.

Figure 6 is a slightly different form of construction in which a single aperture is provided in lieu of a series of apertures for ventilating purposes.

Figure 7 illustrates a construction in which the end of the handle is crimped over the inclosed grommet.

Figure 8 is a cross-sectional view through a type of construction in which the grommet is brazed or otherwise integrally attached to the handle.

The handle A is preferably formed with a central hand engaging portion 10 attached to the ends 11 which extend along a substantially parallel plane by means of offset connecting portions 12. The handle A comprises a flat outer surface having side flanges 13 which are bent substantially parallel the outer flat surface to provide inwardly opposed flanges 14. In other words, the handle portion 10 is provided with substantially flat or slightly rounded inner and outer surfaces connected by rounded edges. The ends of the handle are flattened together as illustrated in Figures 3 and 5 of the drawing, the opposed flanges 14 engaging beneath the flanged edge 15 of a grommet 16. As may be seen in Figure 4 of the drawing, the opposed flanges 14 are notched as indicated at 17 to engage about the hollow tubular shank 19 of the grommet 16.

These notches 17 hold the grommet 16 from movement either longitudinally or transversely with respect to the handle ends 11 and the flanges

14 clamp the grommet flange 15 tightly against the outer surface of the handle.

Openings 20 are formed through the outer surface of the handle in alinement with the shank 19 of the grommet 16 to provide ventilating openings which coincide with the grommet. Ventilating openings which lead through the mattress wall are in this way provided.

When the handle A is attached to the mattress wall B the grommets 16 are forced through the wall B and through a reinforcing plate or washer 21. The extreme end 22 of the shank 19 of each grommet 16 is then riveted over as illustrated in Figure 5 of the drawing, holding the handle secured rigidly to the wall B of the mattress.

In Figure 6 the construction of the handle C is identical with that of the handle A, with the exception that a single opening 23 is formed through the outer surface of the handle in alinement with the grommet 24. The grommet 24 is clamped by inturned flanges 25 which are identical to the flanges 14 which clamp the grommet 16 in position.

In Figure 7 of the drawing I illustrate a slightly different form of handle D. In this form, the body 26 of the handle is provided with inturned edge flanges 27 which are notched at 29 to engage about the shank 30 of the grommet 31. The flanges 27 in this form of construction continue about the end 32 of the body 26, providing an inturned flange 33 which is virtually a continuation of the flanges 27 and which fold over the flange 34 of the grommet 31 to hold the same tightly secured to the handle D. This type of construction has the advantage of providing a folded edge along the end 32 of the handle.

In Figure 8 of the drawing, I provide a handle E, similar to any of those previously described, with the exception that the edge flanges 35 on the body 36 do not extend over the flange 37 of the grommet 39. In this form, the grommet 39 is welded or brazed or otherwise integrally secured to the under or inner surface of the handle in alinement with perforations or openings 40, providing ventilation for the inside of the mattress.

The manner in which the handles which have been described are attached to a mattress has been stated in connection with the description of the handle A. In each case, the shank of the grommet extends through the wall of the mattress and through a reinforcing plate on the inside of the mattress wall and is then riveted firmly in position. The handles are applied during the formation of the mattress when both surfaces of the mattress wall are readily accessible.

In accordance with the patent statutes, I have described the principles of construction of my handle, and while I have endeavored to set forth the best embodiment thereof, I desire to have it understood that this is only illustrative of a means of carrying out my invention and that obvious changes may be made within the scope of the following claims without departing from the spirit of my invention.

I claim:

1. A mattress handle comprising a body portion, edge flanges on said body portion extending

inwardly from the edges of said body portion, and grommet means having a flange thereupon, said flange being clamped between said edge flanges of said body portion and said body portion.

2. A mattress handle comprising a body portion adapted to overlie the outer surface of a mattress, edge flanges on said body portion turned inwardly to overlie portions of the inner surface of said handle, grommet means having flanges thereupon clamped against said body portion by said edge flanges, said grommet extending through the wall of the mattress, and anchoring means overlying the inner surface of the mattress wall to which said grommets are riveted.

3. A mattress handle comprising a strip-like body, edge flanges on said body turned inwardly to overlie a portion of the under surface of said body, grommet means including a circumferential flange positioned between said edge flanges and said body, and openings through said body in registry with said grommets.

4. A mattress handle comprising a strip-like body adapted to overlie the outer surface of a mattress wall, edge flanges on said body turned inwardly to overlie portions of one surface of said body, a pair of grommets, each of which is clamped by said edge flanges to said body adjacent one end thereof, said body having aperture means extending therethrough in registry with said grommets.

5. A mattress handle including a body portion, substantially flat ends thereupon, grommets secured integrally to said flat ends, the ends of said grommets abutting the inner surface of said flat ends, said flat ends having ventilating openings therethrough in registry with the openings through said grommets.

6. A mattress handle including a strip-like body portion, an offset central hand engaging portion therein, alined flat ends thereupon, edge flanges on said ends folded to overlie one surface of said ends, and grommet means clamped between said edge flanges and said flat ends.

7. A mattress handle comprising a strip-like body portion, a central offset hand engaging portion therein, flat ends thereupon, marginal flanges on said ends folded to overlie one surface of said flat ends, grommets including a circumferential flange and a hollow tubular shank, one of said grommets clamped between the edge flanges of each end and the adjacent flat end having openings therethrough in registry with said tubular shanks.

8. A mattress and cushion handle including a strip-like body portion, ventilating openings formed in the ends of said body portion, and concealed tubular grommet means secured to the inner surface of said handle and concealed thereby for attaching the ends of said body portion to the wall of the mattress or cushion and adapted to form the tubular opening through the wall to which the handle is attached, said grommet being attached in line with said ventilating openings.

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