May 22, 1951 J. W. HIGGINS ET AL 2,553,765

ANCHOR TAPE

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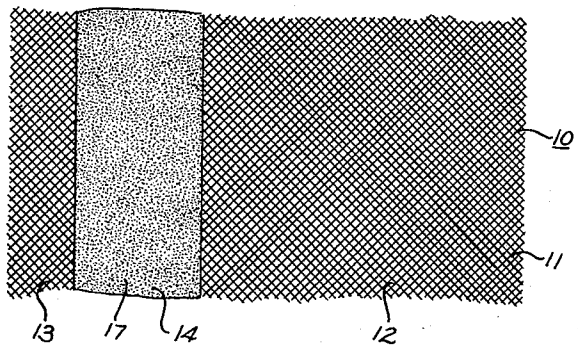


Fig 1

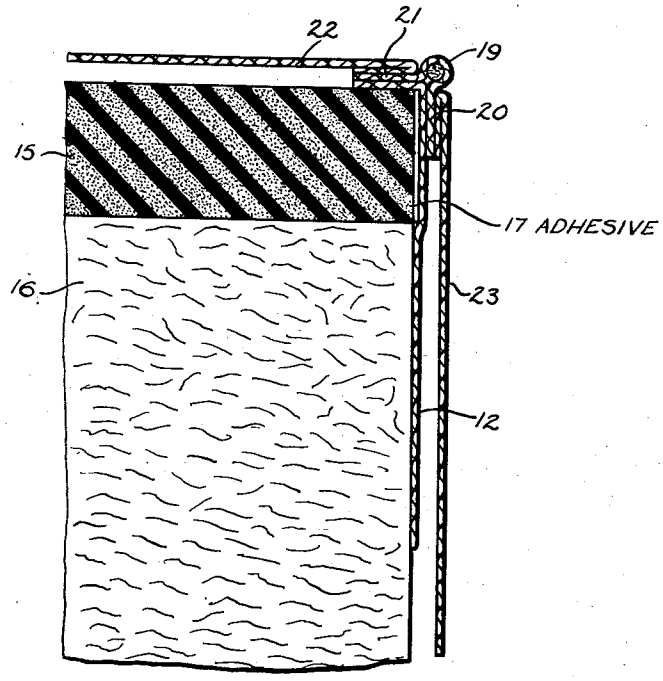


Fig 2

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ANCHOR TAPE

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2 Claims. (Cl. 5—361)

1

This invention relates to furniture constructions generally, and relates particularly to mattress construction and parts therefor.

An object of this invention is to provide padding for furniture.

Another object of this invention is to provide means for holding furniture padding relatively fixed with respect to a furniture base structure, but permitting a limited degree of shifting of the pad to reduce the effect of applied stress to the pad.

A still further object of this invention is to provide a mattress having the comfort characteristics of foam rubber with the proper body support features of a less resilient mattress core.

Another object of this invention is to provide an anchor tape adapted to anchor a furniture pad relative to a base.

Other objects and a fuller understanding of this invention may be had by referring to the following description and claims, taken in conjunction with the accompanying drawing, in which:

Figure 1 is a plan view of a piece of a longitudinal strip of anchor tape made in accordance with the teachings of this invention; and

Figure 2 is a sectional view through a mattress constructed in accordance with the teachings of this invention, the parts thereof being greatly exaggerated for clearness of illustration.

Originally, as is well known, mattress and furniture construction depended upon hair, felt and other similar types of stuffing for resiliency to provide comfort. Then, of course, spring construction, and more recently in regard to mattress construction, the inner spring mattress has added measurably to the comfort of the furniture. Still more recently, the rubber industry has provided mattresses and furniture padding of foam rubber. This foam rubber, in the case of mattresses, is made entirely without springs, and furniture construction is likewise very often made without springs of any type, depending entirely upon the foam rubber for the resilient support.

However, especially in the case of mattresses, many people have found the foam rubber mattresses to be too soft and therefore do not provide sufficient body support. Further, the selling price of foam rubber mattresses is quite high and therefore prohibitive to many people.

There have been recent attempts to combine rubber and springs together for furniture construction, particularly the mattress industry. However, there have been certain drawbacks and

2

defects which have limited the advance of this stage of the industry. The furniture pad illustrated in the drawings has proved extremely successful in eliminating many of the difficulties and providing a furniture pad and mattress construction which is very desirable and is proving itself to be highly acceptable for its intended purpose.

The preferred embodiment of the anchor tape of this invention is indicated by the reference character 10 in Figure 1 of the drawing. The anchor tape 10 is preferably made in continuous rolls of any desired length, and may be made in various widths according to its intended use. The Figure 1 is a piece of such a roll of tape made for a mattress construction. This anchor tape 10 for mattress construction use comprises a cloth strip 11 or other suitable flexible material having an adhesive portion 14 extending longitudinally thereof. The adhesive portion 14 is coated with a surface 17 preferably of any suitable pressure-sensitive adhesive material. Pressure-sensitive adhesive material is intended to mean that type of adhesive material which may be placed against a surface and a moderate amount of pressure applied thereto to stick the adhesive material to the surface. In a mattress construction, the adhesive portion 14 lies inwardly of the edges of the cloth strip 11, and therefore the completed anchor tape 10 will have a first anchor portion 12 on one side of the adhesive portion 14 and will have a second anchor portion 13 on the other side of the adhesive portion 14. The illustrated anchor strip 10 is illustrated in full size as actually employed in one type of furniture construction, namely mattress construction.

In Figure 2 of the drawing the use of the anchor tape 10 for mattress construction is further illustrated to set forth this particular use of the invention. A rubber pad 15, preferably of foam or bonded foam latex, is placed upon the flat upper surface of a felt furniture base 16. The felt base 16, although being the actual base in one type of mattress construction, is intended to represent any desired furniture base, such for example as an innerspring mattress construction, chair frame, stool or hassock base, and other similar furniture bases. A conventional mattress cover 18 having a corner welting 19 encloses the entire mattress in the illustrated embodiment. The welting 19 has a first leg 20 and a second leg 21 to which the top and side portions 23 and 22 may be sewn or otherwise suitably attached. The first anchor portion 12 may be attached to the base 16 by any suitable means, such as by sewing in the case of a felt or cloth

mattress core, or by tacking or gluing to other types of furniture bases. In the illustrated mattress construction, the second anchor portion 13 is attached to the mattress cover 18 by sewing to the second leg 21 of the welting 19 along with the top portion 22 of the mattress cover. The rubber pad 15 and the anchor tape are joined by means of the adhesive material 17.

By the use of the anchor tape of this invention, a rubber pad may be held relatively fixed with respect to a furniture core, but a degree of movement is permitted for the pad although the pad is not free to move any large distance which would be detrimental to the function for which it is intended. In other words, one of the drawbacks to placing a foam rubber pad on a core such as the core 16, has been the tendency of the rubber pad to shift relative to the surface and become misaligned. On the other hand, attempts which have been made to bind the pad directly to the core have been insufficient for the reason that pressure at an angle on the foam rubber pad would place an extreme stress on one localized portion of the foam rubber and rupture the pad. Foam rubber pads of this type are relatively weak and will not withstand great localized stress. The tape illustrated will permit the pad 15 to move relative to the base 16, but will greatly restrict the movement. This is what is meant by a degree of movement being permissible.

Although the invention has been described in its preferred form with a certain degree of particularity, it is understood that the present disclosure of the preferred form has been made only by way of example and that numerous changes in the details of construction and the combination and arrangement of parts may be resorted to without departing from the spirit and the scope of the invention as hereinafter claimed.

What is claimed is:

1. A device for securing a core of a mattress and a rubber pad together with the pad covering the top surface of said core, said device comprising an anchor tape and a pressure-sensitive adhesive coating on one surface of said tape, said tape comprising a strip of flexible fiber material, said pressure sensitive coating being arranged parallel to the edges of said strip but having a width less than the width of the strip, said coating including a material having the capacity of adhering to the material of said rubber pad, whereby the device and the pad may be joined by adhesion of the pad to the coating and the device and the core mechanically joined to thereby produce a unitary structure wherein the device is the binding agent.

2. A device for securing a core of a mattress and a rubber pad together with the pad covering the top surface of said core, said device comprising an anchor tape and a pressure-sensitive adhesive coating on one surface of said tape, said tape comprising a strip of flexible fiber material, said pressure sensitive coating being arranged parallel to the edges of said strip but having a width less than the width of the strip which remains uncoated, said coating including a material having the capacity of adhering to the material of said rubber pad, whereby the device and the pad may be joined by adhesion of the pad to the coating and the device and the core mechanically joined to thereby produce a unitary structure wherein the device is the binding agent.

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