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3,085,260

EDGE ROLL STRUCTURE

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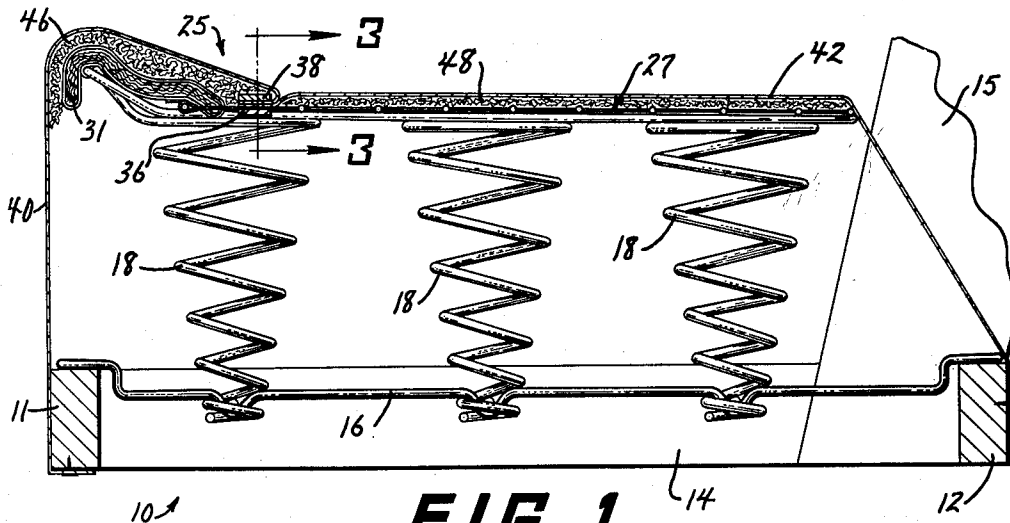


FIG. 1

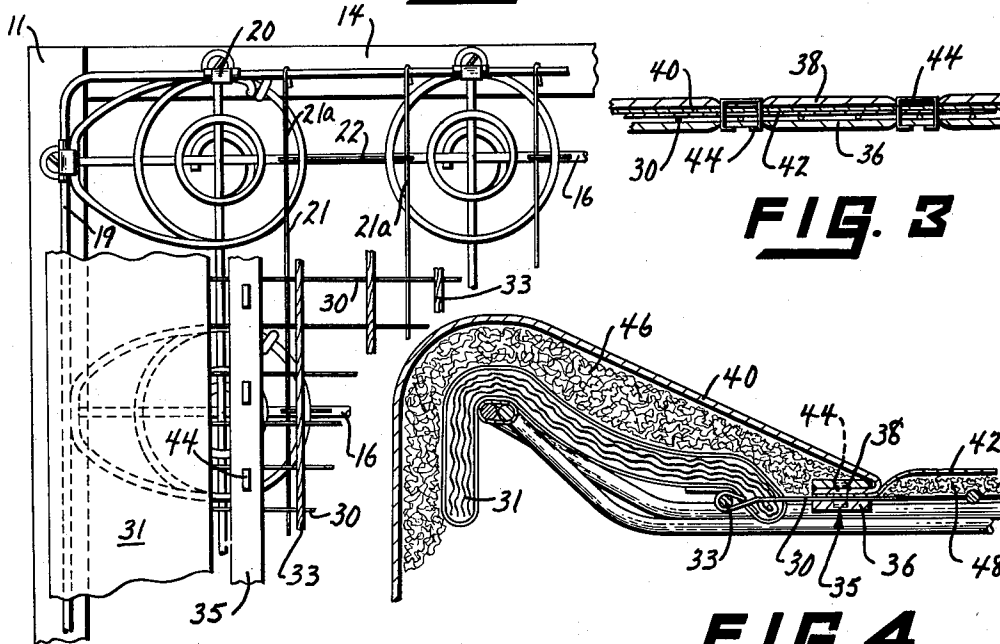


FIG. 2

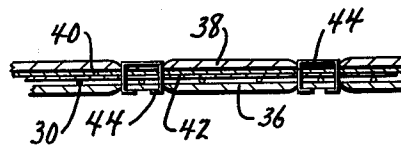


FIG. 3

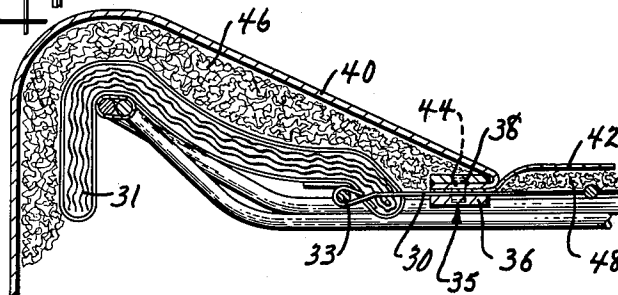


FIG. 4

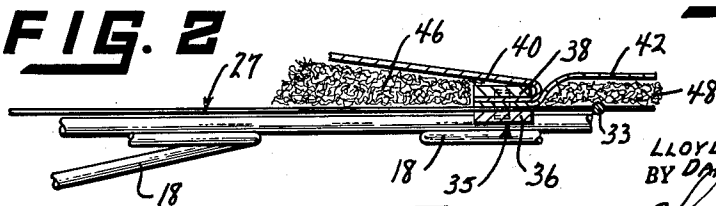


FIG. 5

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1

3,085,260

EDGE ROLL STRUCTURE

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The present invention relates to an edge roll structure for upholstered furniture, and more particularly to a new and novel adjustable type edge roll structure which is readily adaptable for use with various types of upholstered furniture.

As is known, an edge roll is provided around the periphery of the base section of upholstered furniture to retain the cushioning thereon and, additionally, to provide for an attractive completed furniture unit. Although various forms of edge rolls have been previously proposed and used, including those formed on coil springs having the front or side portion of the uppermost convolution deformed upwardly, the ultimate manufacturing and assembly of such prior structures was oftentimes unwieldy and complicated.

By virtue of the instant invention, the applicants have provided a new and novel edge roll structure for upholstered furniture having a portion which is movable along the coil springs disposed on the base section of such furniture to permit the ready adaptability of the edge roll for various types of upholstered furniture. In regard to the latter, the applicants' edge roll structure may be effectively varied space-wise from the outer edge of the base section, depending upon what width edge roll is desired. For example, and by way of illustration, in a typical upholstered unit, the edge roll structure may extend from the front of the base section approximately six inches rearwardly towards the back of the unit, whereas by virtue of the instant invention, the movable portion of the edge roll is slidable to a position some eight or ten inches from the front of the coil springs. Stated otherwise, the movable portion of the instant edge roll structure may be disposed on the second row of springs forming part of the edge roll, as well as on the back portion of the front row of springs.

Accordingly, a principal object of the present invention is to provide a new and novel edge roll for upholstered furniture which is readily adjustable for use on different furniture styles.

Another object of the present invention is to provide a new and novel edge roll for upholstered furniture which may be conveniently assembled when used or which may be preassembled prior to placement thereof for use.

A further object of the present invention is to provide a new and novel edge roll for upholstered furniture having a portion thereof which is slidable with reference to the outer edge of the upholstered unit, whereby any desired width edge roll may be achieved in a simple and yet effective manner.

A still further and more general object of the present invention is to provide a new and novel edge roll for upholstered furniture having a minimum number of components which effectively combine to permit ready and selective placement of the structure, as desired, on the upholstered unit.

Other objects and a better understanding of the instant invention will become more apparent from the following description, taken in conjunction with the accompanying drawing, wherein—

FIG. 1 is a view in vertical section showing the applicants' novel edge roll in typical use on the base section of an upholstered unit;

FIG. 2 is a fragmentary plan view of the base sec-

tion for the edge roll in FIG. 1, with the edge roll being only partly assembled to show certain details thereof;

FIG. 3 is an enlarged view in vertical section, taken at line 3—3 of FIG. 1 and looking in the direction of the arrows, showing further details of the applicants' novel invention;

FIG. 4 is an enlarged detailed view in vertical section, generally corresponding to the view of FIG. 1; and

FIG. 5 is a fragmentary and enlarged view in vertical section, generally comparing to the view of FIG. 1, showing, however, the movable portion of the edge roll disposed in a position of use with another style of upholstered furniture.

For the purposes of promoting an understanding of the principles of the invention, reference will now be made to the embodiment illustrated in the drawing and specific language will be used to describe the same. It will nevertheless be understood that no limitation of the scope of the invention is thereby intended, such alterations and further modifications in the illustrated device, and such further applications of the principles of the invention as illustrated therein being contemplated as would normally occur to one skilled in the art to which the invention relates.

Referring now to the figures, the applicants' novel edge roll is shown in a typical position of use on a base section 10 of an upholstered furniture unit which has a front base rail 11, a rear base rail 12 and side base rails 14 secured together, with the bottoms of back posts 15, to form a generally rectangular base frame. Disposed in latticed fashion between the front and rear base rails 11 and 12, respectively, and the side base rails 14, are a series of base wires 16 which are secured to the top surfaces of the base rails by conventional means, such as by tacking, for example.

Extending upwardly from the base wires 16 are conventional coil springs 18 which, in the preferred embodiment of the invention, increase in diameter in an upward direction. The coil springs 18 disposed along the outer edges of the base section 10, i.e. adjacent the front or adjacent the sides where there is no upholstered arm, each have the forward and/or side portions, respectively, of the uppermost convolution thereof deformed upwardly, all as well known in the art. The uppermost convolutions of each of the coil springs 18 are secured to a tangential edge wire 19 through the use of clamping devices 20, thereby forming an upper framework for the coil springs 18 of the spring assembly. Increased stability for the overall spring assembly is further attained by the use of wires 21 which are deformed downwardly at 21a beneath the top of each of the coil springs 18, which deformed portions are hooked together by small sections of wire 22.

It should be understood that the aforescribed structure is conventional in the art and the discussion thereof herein is merely a basis for an understanding of the applicants' novel invention which, in the preferred embodiment, is used therewith, and specific detailed discussion thereof has been omitted for reasons of clarity.

Referring now to the figures, the applicants' new and novel edge roll 25 comprises, when assembled, multiple layers of components, typically based on an insulator 27, the latter being disposed on the tops of the rows of springs 18 forming part of the base section 10 of the upholstered unit. The insulator 27 is typically defined by a series of generally parallel wires 30, each of which extend through a portion of a wide strip of paperboard 31 which is laid over the upwardly deformed part of the front row of springs 18 (see FIGS. 1, 2 and 4). The wires 30 are maintained in the aforesaid generally parallel relationship by means of a series of slidable hem-

2

like elements 33 through which each extend, as should be particularly evident from FIGS. 2 and 4. The above-described typical insulator 27 is marketed under the trade-name "Perm-a-lator," and is widely known in the furniture industry.

In carrying out the instant invention, the applicants employ a movable tacking strip 35, where such tacking strip 35 can assume any number of different positions along the wires 30 forming part of the insulator 27. For example, and as should be apparent from the following discussion, the tacking strip 35 is typically positioned on the flat portion of the front row of springs 18 (FIGS. 1 and 2) and is movable, as desired, to a position on the second row of springs 18 (FIG. 5).

In any event, and with particular reference to FIGS. 3 and 4, the aforesaid tacking strip 35 is defined as including tacking members 36 and 38, typically made from paperboard or like material, having a layer of cover fabric 40 and a layer of denim 42, disposed therebetween, all of the preceding being secured together by means of silver stitches 44, for example. The preceding arrangement can either be preassembled prior to its use on an upholstered unit or may, in fact, be assembled on the unit.

If the instant novel edge roll 25 is preassembled, one of the members 36 or 38 is placed under the wires 30 of the insulator 27, the layer of denim 42 is placed over the wires 30, the layer of cover fabric 40 is placed over the layer of denim 42, and the other of the members 36 or 38 is placed over the cover fabric 40, whereupon the aforementioned silver stitching is then effected. In the event it is desired to assemble the preceding components while positioned on the base section 10 of the upholstered unit, the member 36 forming part of the tacking strip 35 is temporarily positioned beneath the wires 30 of the insulator 27, and the other components are disposed on the wires 30 in the order stated hereabove. The entire assembly is thus secured together through the use of silver stitches 44.

As noted hereabove, the wide strip of paperboard 31 forming part of the insulator 27 is laid over and extends downwardly from the upwardly deformed portion of the front row of springs 18 (see FIG. 4), and a suitable layer of padding 46, such as cotton, polyurethane, or like material, is disposed thereover. Similar padding 48 is also disposed over the back portion of the insulator 27, i.e. towards the rear of the unit, whereupon the cover fabric 40 is drawn over the padding 46 and downwardly to a securing position typically on the bottom surface of the front base rail 11. The denim 42 is drawn rearwardly over the padding 48 and is typically secured onto the back surface of the rear base rail 12.

Depending upon the type of style of upholstered unit, the instant novel edge roll assembly 25 is capable of assuming various widths, i.e. as related to the position of the movable tacking strip 35. For example, with a "T-cushion" style, it is desirable to begin the edge roll at a more distant point from the front of the upholstered unit, where typically the movable tacking strip 35 in such instance might be disposed on the front portion of the second row of springs 18 (see FIG. 5). In any event, the tacking strip 35 is secured in its desired position by reason of the tacking of the denim 42 and the fabric cover 40 to the rear base rail 12 and to the front base rail 11, respectively.

In addition to the above, an alternate structure typically utilizes a unitary piece of padding in the form of polyurethane foam, where the latter is silver-stitched between the tacking members 36 and 38, along with the cover fabric 40 and the denim 42. In this instance, however, it should be understood that no added padding would be necessary, as the polyurethane foam is disposed over the paperboard 31 and extends rearwardly over the remainder of the insulator 27, in a continuous piece, to the back portion of the upholstered unit.

From the preceding, it should be apparent that the applicants have provided a new and novel adjustable edge roll having a movable tacking feature by means of which the area of the edge roll may be varied, as desired, in accordance with the type of furniture being upholstered. The aforescribed tacking strip is readily movable along wires forming part of the insulator and, additionally, serves to neatly define the stitch line between the cover fabric and the denim.

The above-described edge roll structure is susceptible to changes within the spirit of the invention. For example, the tacking strip disclosed in the drawing may be varied in dimensions and, of course, other types of stitching may be utilized for its assembly. Moreover, the invention may be practiced using various other types of springs with a turned-up edge, as, for example, a convolute type spring. Accordingly, the preceding description should be considered illustrative and not as limiting the scope of the following claims.

We claim:

1. In upholstered furniture having a base section defined by springs and a preassembled insulator overlying said springs, where said insulator includes a series of generally parallel wires which extend through a portion of a flexible member forming a part thereof, an edge roll structure comprising a tacking strip defined by tacking members having a layer of fabric cover and a layer of denim disposed therebetween and in stitched relationship, said tacking strip positioned on and slidable along said wires, and padding disposed over said flexible member of said insulator, said fabric cover overlying said padding.
2. In upholstered furniture having a base section defined by springs and a preassembled insulator overlying said springs, where said insulator includes a series of generally parallel wires which extend through a portion of a flexible member forming a part thereof, an edge roll structure comprising a tacking strip defined by tacking members having a layer of fabric cover and a layer of denim disposed therebetween and in stitched relationship, said wires of said insulator also being disposed between said tacking members to permit movement of said tacking strip therealong, and padding disposed over said flexible member of said insulator, said fabric cover overlying said padding.
3. In upholstered furniture having a base section defined by springs and a preassembled insulator overlying said springs, where certain of said springs have upturned portions and where said insulator includes a series of generally parallel wires which extend through a portion of a flexible member forming a part thereof, an edge roll structure comprising a tacking strip disposed on said springs apart from said upturned portion thereof, said tacking strip defined by tacking members having a layer of fabric cover and a layer of denim disposed therebetween and in stitched relationship, and said wires of said insulator also being disposed between said tacking members to permit the movement of said tacking strip therealong, and padding disposed over said flexible member of said insulator, said fabric cover overlying said padding.
4. In upholstered furniture having a base section defined by a framework having springs and a preassembled insulator overlying said springs, where said insulator includes a series of generally parallel wires which extend through a portion of a flexible member forming a part thereof, an edge roll structure comprising a tacking strip defined by tacking members having a layer of fabric cover and a layer of denim disposed therebetween and in stitched relationship, said tacking strip positioned on and slidable along said wires, and padding disposed over said insulator, said fabric cover overlying certain of said padding and secured to a portion of said framework of said base section and said denim overlying other of said padding and secured to another portion of said framework of said base section.
5. In upholstered furniture having a base section defined by springs and a preassembled insulator overlying

5

said springs, where said insulator includes a series of generally parallel wires, an edge roll structure comprising a tacking strip having a layer of fabric cover and a layer of denim stitched thereto, said tacking strip positioned on and slidable along said wires, and padding disposed on said insulator, said fabric cover overlying certain of said padding and secured to a portion of said base section.

6. In upholstered furniture having a base section defined by springs and a preassembled insulator overlying said springs, where said insulator includes a series of generally parallel wires, an edge roll structure comprising a tacking strip having a layer of fabric cover, a layer of denim and padding stitched thereto, said tacking strip positioned on and slidable along said wires, and said fabric cover overlying certain of said padding and secured to a portion of said base section.

7. In upholstered furniture having a base section defined by a framework having springs and a preassembled insulator overlying said springs, where said insulator includes a series of generally parallel wires which extend

6

through a portion of a flexible member forming a part thereof, an edge roll structure comprising a tacking strip defined by tacking members having a layer of fabric cover, a layer of denim and padding disposed therebetween and in stitched relationship, said tacking strip positioned on and slidable along said wires, and said fabric cover overlying certain of said padding and secured to a portion of said framework of said base section, and said denim overlying other of said padding and secured to another portion of said framework of said base section.

8. The edge roll structure of claim 7 where said padding extends completely over said insulator.

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