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EDGE ROLL FOR SPRING STRUCTURES

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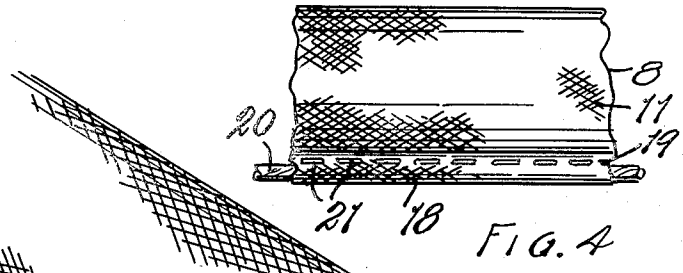


FIG. 4

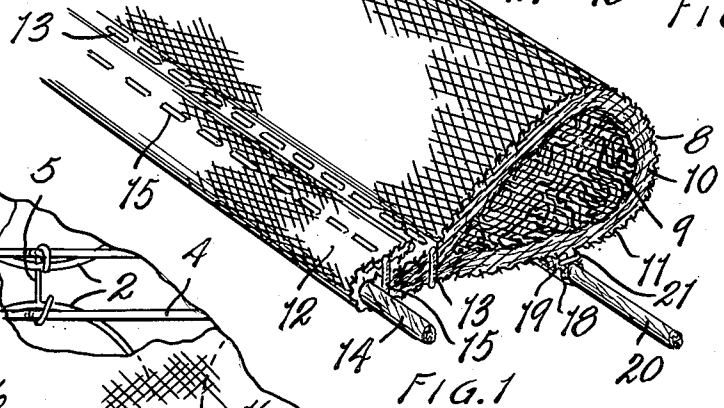


FIG. 1

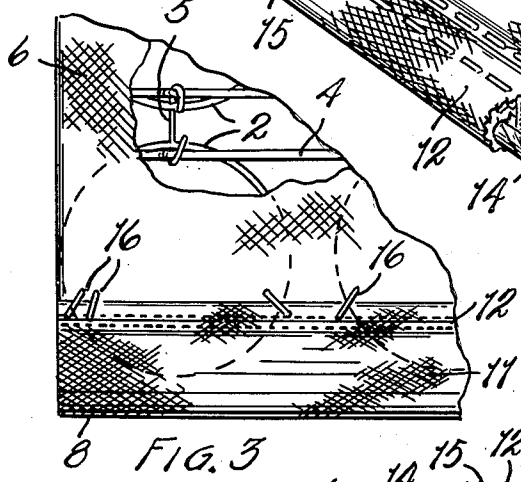


FIG. 3

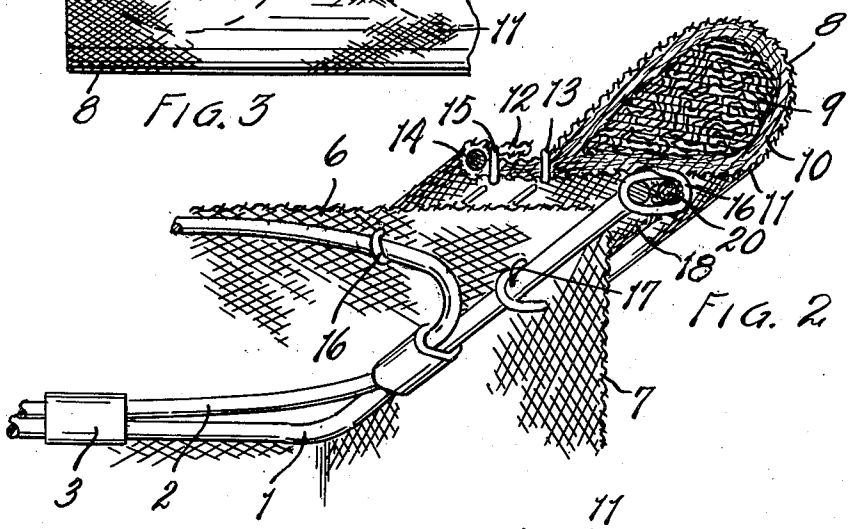


FIG. 2

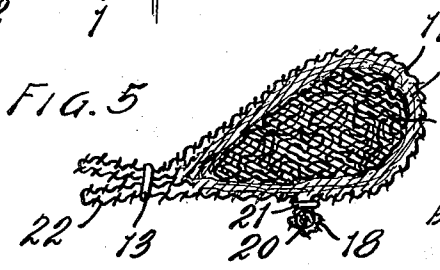


FIG. 5

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EDGE ROLL FOR SPRING STRUCTURES

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10 Claims. (Cl. 155—184)

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This invention relates to improvements in edge rolls for use in upholstering parts such as spring assemblies.

The main objects of this invention are:

First, to provide an edge roll for upholstering spring assemblies and the like which may be quickly and easily applied and is very securely mounted with the outer edge of the roll substantially projecting beyond the border of the spring assembly or in proper relation to the part to be upholstered.

Second, to provide an edge roll having these advantages which may be securely applied or attached by means of clips, commonly referred to as "hog rings" in the upholstering industry as distinguished from sewing.

Third, to provide an edge roll having these advantages in which the strain upon the parts engaged by the clips is distributed substantially throughout the length of the structure although the clips are longitudinally spaced.

Other objects relating to details and economies of the invention will appear from the description to follow. The invention is defined and pointed out in the claims.

A preferred embodiment of the invention is illustrated in the accompanying drawing, in which:

Fig. 1 is a fragmentary prospective view of an edge roll embodying my invention.

Fig. 2 is a fragmentary prospective view illustrating the edge roll applied to a spring assembly to be upholstered.

Fig. 3 is a fragmentary plan view further illustrating the application or securing of the edge roll to a spring structure.

Fig. 4 is a fragmentary view looking from the outer edge of the edge roll showing structural details thereof.

Fig. 5 is a sectional view of a modified form or embodiment of our invention.

In the accompanying drawing we have illustrated the edge roll of our invention applied to a spring structure comprising a top border frame 1, body springs 2, the body springs being secured to the border frame by means of clips 3, the springs are further secured by means of tie wires 4 and cross ties 5 conventionally shown in Fig. 3. Commonly the spring assembly is covered with a fabric 6, such for example as burlap, having a depending skirt portion 7, the upholstering padding and the covering therefor not being illustrated.

Our improved edge roll is designated generally by the numeral 8 and comprises an elongated

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resilient core 9 desirably of crumpled or crushed paper desirably twisted. A relatively softer padding 10 of multiply cellulose tissue, sometimes commercially designated as cellulose wadding, is wrapped around the core. The covering 11 of fabric, desirably of burlap, completely embraces the resilient body portion and is extended to provide a flap designated generally by the numeral 12. The padding is preferably extended into the flap, the covering and the padding being anchored and secured adjacent the inner edge of the core by means of a row of stitches 13.

The outer edges of the covering are wrapped around a beading or reinforcing cord 14 desirably of twisted paper and secured thereon by a rod of stitches 15. This provides a reinforced flap well adapted to be secured to the springs or other parts of the spring assembly by means of the clips 16 which are passed through the flap to embrace the stand 14 and are clinched as indicated at 17 in Fig. 2.

An attaching bead 18 is formed on the under side of the edge roll in spaced relationship to its outer edge. This comprises a fold 19 in the covering 11 which embraces a reinforcing or beading strand 20, also desirably formed of twisted paper. The loop or fold in the fabric is secured around the reinforcing strand desirably by a row of stitches 21 at the inner side of the strand 20. This bead may be attached to the body frame by means of clips 16.

In the embodiment shown in Fig. 5 the beading or reinforcing strand 14 is omitted. A single row of stitches 13 is illustrated in the flaps. This provides an economical structure but lacks the strength of the preferred structure.

If desired the flap 22 of this structure is adapted to receive attaching clips or to be stitched or tacked to the frame or part to be upholstered. The beading 18 of this structure provides effective means for attaching with the outer edge of the edge roll projecting the desired amount.

In the structure illustrated, the edge roll is of inwardly tapered section. The edge roll of our invention is adapted for a wide range of uses or applications and may be effectively applied by others than skilled upholsterers.

We have illustrated and described our invention in a highly practical embodiment thereof. We have not attempted to illustrate or describe various modifications and adaptations which we contemplate as it is believed that this disclosure will enable those skilled in the art to embody or adapt our invention as may be desired.

Having thus described our invention what we claim as new and desire to secure by Letters Patent is:

1. An edge roll for use in upholstering structures such as spring assemblies comprising, an elongated body member of inwardly tapered cross section and including an elongated resilient core of crumpled sheets of paper, a relatively softer resilient padding of cellulose tissue embracing the core, and a fabric covering wrapped around the covering and padding, the covering being extended inwardly beyond the core and padding providing a flap extension, a longitudinal reinforcing strand around which said flap extension is folded, there being a row of stitches through the folded portion of the flap at the inner side of the reinforcing strand, and a second row of stitches adjacent the inner edge of the flap and engaging the padding, and a longitudinal bead on the under side of the roll in spaced relation to the outer edge thereof and comprising a reinforcing strand embraced in a fold in the covering, there being a row of stitches through such fold at the inner side of the strand, said strand reinforced flap and said bead being adapted to receive attaching clips for securing the edge roll to parts of a spring assembly to be upholstered.

2. An edge roll for use in upholstering structures such as spring assemblies comprising, an elongated body member of inwardly tapered cross section and including an elongated resilient core of crumpled sheets of paper, a relatively softer resilient padding of cellulose tissue embracing the core, and a fabric covering wrapped around and covering the padding, the covering being extended inwardly beyond the core and padding providing a flap extension, a longitudinal reinforcing strand around which said flap extension is folded, there being a row of stitches through the folded portion of the flap at the inner side of the reinforcing strand, and a second row of stitches adjacent the inner edge of the flap and engaging the padding.

3. An edge roll for use in upholstering structures such as spring assemblies comprising, an elongated body member and a fabric covering wrapped around the body member the covering being extended inwardly beyond the body member providing a flap extension, a longitudinal reinforcing strand around which said flap extension is folded, there being stitching through the folded portion of the flap at the inner side of the reinforcing strand, and a longitudinal bead on the under side of the roll in spaced relation to the outer edge thereof and comprising a reinforcing strand embraced in a fold in the covering, there being stitching through such fold at the inner side of the strand, said strand reinforced flap and said bead being adapted to receive attaching elements for securing the edge roll to parts of a spring assembly to be upholstered.

4. An edge roll for use in upholstering comprising, an elongated body member and a covering therefor embracing the body member and extended at the inner side thereof to provide a flap extension, a longitudinal reinforcing strand for said flap embraced by and around which the flap portion of the covering is secured, and a longitudinal bead on the under side of the body member comprising a strand embraced by a fold in the covering, the parts of the fold being secured at the inner side of the strand, said reinforcing flap and bead being adapted to receive

elements for attaching the roll to a structure to be upholstered.

5. An edge roll for use in upholstering structures such as spring assemblies comprising, an elongated body member of general pear shaped section, the thinner edge being the inner edge of the body member, an elongated strip of flexible covering material closely wrapped transversely around the body member with its longitudinal edges disposed in overlapping relation at the inner edge of the body member and secured by longitudinally extending laterally spaced rows of stitching, a relatively stiff longitudinally extending reinforcing strand disposed at the inner edge of the body member and around which the covering is wrapped and constituting therewith the inner edge of the edge roll, the inner of said longitudinal rows of stitching being disposed closely adjacent to said reinforcing strand, and a downwardly projecting longitudinal bead on the underside of the body member disposed in spaced relation to the inner and outer edges thereof and comprising a relatively stiff elongated strand disposed within the covering and embraced by a fold thereof, there being stitching through the fold at the inner side of the strand, the said bead and reinforced inner edge facilitating the attachment of the edge roll by hog rings embracing said strands.

6. An edge roll for use in upholstering structures such as spring assemblies comprising, an elongated body member of general pear shaped section, the thinner edge being the inner edge of the body member, an elongated strip of flexible covering material closely wrapped transversely around the body member with its longitudinal edges disposed and secured in overlapping relation at the inner edge of the body member, a relatively stiff longitudinally extending reinforcing strand disposed at the inner edge of the body member and around which the covering is wrapped and constituting therewith the inner edge of the edge roll, and a downwardly projecting longitudinal bead on the underside of the body member disposed in spaced relation to the inner and outer edges thereof and comprising a relatively stiff elongated strand disposed within the covering and embraced by a fold thereof, there being stitching through the fold at the inner side of the strand, the said bead and reinforced inner edge facilitating the attachment of the edge roll by hog rings embracing said strands.

7. An edge roll for use in upholstering comprising, an elongated body member, a flexible covering wrapped transversely around the body member with its longitudinal edges disposed and secured in overlapping relation at one side of the body member, a relatively stiff longitudinal extending reinforcing strand disposed within the covering, a row of stitching being close to the strand, the strand and covering embraced thereby constituting the inner edge of the edge roll, and a downwardly projecting longitudinal bead on the underside of said body member disposed in spaced relation to the inner and outer edges thereof and comprising a relatively stiff elongated strand extending longitudinally of the body member and disposed within the covering and embraced by a fold thereof, the parts of the fold being secured at the inner side of the strand, said reinforced flap and bead being adapted to receive attaching elements for attaching the roll to a structure to be upholstered.

8. An edge roll for use in upholstering com-

prising, an elongated body member, a flexible covering wrapped transversely around the body member with its longitudinal edges disposed and secured in overlapping relation at one side of the body member providing an attaching flap which constitutes the inner edge of the body of the roll, a downwardly projecting longitudinal bead on the underside of said body member disposed in spaced relation to the inner and outer edges thereof and comprising a relatively stiff elongated strand extending longitudinally of the body member and disposed within the covering and embraced by a fold thereof, the parts of the fold being secured at the inner side of the strand, said bead being adapted to receive attaching elements for attaching the roll to a structure to be upholstered.

9. An edge roll for use in upholstering comprising, an elongated body member, a covering therefor closely embracing the body member and extended at one side thereof to provide an attaching extension, a longitudinal reinforcing strand for said extension disposed within said covering and closely embraced thereby, said extension and strand constituting the inner edge of the roll, and an elongated bead on the underside of the body comprising a strand embraced by a fold in the covering, the parts of the fold being secured at the inner side of the strand, said reinforced attaching extension and bead being

adapted to receive elements for attaching the roll to a structure to be upholstered.

10. An edge roll for use in upholstering, comprising an elongated body member, a flexible covering therefor closely embracing the body member and extending at one side thereof providing a longitudinally disposed attaching extension at the side constituting the inner side of the roll, and an elongated bead on the underside of the body spaced laterally outward from said attaching extension and comprising a strand disposed within the covering and embraced by a fold thereof, the parts of the fold being secured at the inner side of the strand so that the bead projects downwardly from the body member, said attaching extension and bead being adapted to receive elements for attaching the roll to a structure to be upholstered.

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