EDGE ROLL FOR USE IN UPHOLSTERING
PARTS SUCH AS SPRING ASSEMBLIES
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Fig. 1

Fig. 2

Fig. 3

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EDGE ROLL FOR USE IN UPHOLSTERING PARTS SUCH AS SPRING ASSEMBLIES

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13 Claims. (Cl. 155—151)

1 This invention relates to improvements in edge roll 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 thereto, is very securely mounted thereon and with the outer edge of the roll projecting substantially beyond the border of the spring assembly.

Second, to provide an edge roll having these advantages which may be economically produced in large quantities and may be secured so as to provide a suitable edge support and form for the upholstery and one which at the same time possesses substantial resilience.

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

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

Fig. 1 is a fragmentary plan view of a spring assembly with the edge roll of my invention applied to one side or edge thereof.

Fig. 2 is an enlarged fragmentary view partially in section on a line corresponding to line 2—2 of Fig. 1.

Fig. 3 is a fragmentary view in section on a line corresponding to line 3—3 of Fig. 2.

In the accompanying drawing I have illustrated the edge roll of my invention as applied to a cushion spring assembly comprising: upright coiled body springs 1, a border frame 2 which is secured to the top coils of outer body springs by means of the clips 4, and tie wires 5 which are secured to the inner portions of the top coils of the springs by means of the fasteners 6. This spring assembly constitutes no part of my invention except as my improved edge roll is associated therewith. I am employing the term edge roll as that is a commercial designation.

My improved edge roll, designated generally by the numeral 6, comprises an elongated resilient core 7 of crumpled paper, kraft tissue crushed and desirably twisted being suitable. Around this I place a padding 8 of multiple sheet cellulose sometimes commercially designated as cellulose wadding. The covering 9, which is desirable of burlap, completely embraces this resilient body portion and constitutes a flap. The body portion is of inwardly tapered and generally pear-shaped section, the enlarged outer edge 11 being transversely curved, the curves merging into the sides of the body as illustrated. A row of stitches 12 secures the edges of the covering together providing the flexible flap 13.

With the parts thus arranged the roll maintains its shape and presents a suitable soft exterior which is substantially resilient. In the preferred embodiment illustrated the roll is provided with attaching members 14 formed of bendable wire and having intertwined hooks 15 at the outer ends thereof and bendable prongs 16 at their outer ends. These attaching members are provided with upward offsets 17 adjacent their outer ends, these offsets being engaged by the staple-like fasteners 18 which are inserted through the roll in spaced relation to its outer edge and in engagement with the core, padding and covering thereof as is illustrated in the drawing.

The fasteners 18 are clinched at 19 on the upper side of the roll and in clamping binding engagement therewith. Clips 20 are inserted through the flap 13 to engage the attaching members 14. With this arrangement the roll and attaching members are securely retained together with the attaching members on the under side of and in transverse relation to the roll.

In applying the roll to a spring assembly, such as illustrated, the hooks 15 are engaged with the border member 2 and the prongs 16 engaged over a tie member and engaged with and desirably bent around the same thus effectively securing the edge roll to the spring assembly with the outer part of the edge roll above and projecting outwardly beyond the border of the spring assembly. Commonly a covering 21 of burlap is arranged over the spring assembly as a preliminary step in upholstering the same, the covering depending at the side of the spring assembly to provide a skirt portion 22 which is secured to the base frame of the assembly, not illustrated, the frame of a chair or other part, not illustrated, to be upholstered. The upholstery padding is not illustrated but it may be arranged on the fabric 21 and the upholstery covering 23 shown in Fig. 2 arranged over the padding and over the edge roll.

Structures embodying my invention may be economically produced and very quickly and easily applied to the part to be upholstered by relatively unskilled workmen. The edge roll is very effectively secured in position and in a manner to permit its functioning in a most desirable manner.

I have illustrated and described certain highly practical embodiments of my invention. I have
not attempted to illustrate or describe other embodiments or adaptations as it is believed that this disclosure will enable those skilled in the art to embody or adapt my invention as may be desired.

Regarding thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. The combination with a spring assembly comprising coiled body springs, a top border member disposed along one side of the assembly and secured to the outer sides of top coils of outer springs, and a tie rod disposed in spaced parallel relation to the border member and connected to the top coils of springs to which the border member is connected, said tie rod and top border member being connected to the top coils on the opposite sides of the axial centers of the top coils, of an upholstery edge roll comprising an elongated resilient core of crumpled paper, a relatively softer resilient padding of multiply sheet cellulose tissue embracing the core, and a wrapping extending inwardly beyond the padding and providing a flap-like edge extension of superimposed edge portions, there being a longitudinal row of stitches in said flap extension through said superimposed edge portions, and bendable attaching members secured to said edge roll and having turned hooks at their outer ends disposed around said border member, and bendable prongs at their inner ends disposed around and engaged with the said tie rod whereby the outer hooked ends are retained in engagement with said border member.

2. The combination with a spring assembly including body springs, a top border member disposed along one side of the assembly and secured to the outer sides of top coils of outer springs, and a tie rod disposed in spaced parallel relation to the border member and connected to the top coils of springs to which the border member is connected, said tie rod and top border member being connected to the top coils on the opposite sides of the axial centers of the top coils, of an edge roll comprising an elongated resilient core of crumpled paper, a relatively softer resilient padding of multiply sheet cellulose tissue embracing the core, and a wrapping of fabric, the roll being of inwardly tapered section, its enlarged outer edge portion being of curved section, the wrapping extending inwardly beyond the padding and providing a flap-like edge extension of superimposed edge portions, there being a longitudinal row of stitches in said flap extension through said superimposed edge portions, bendable attaching members having turned hooks at their outer ends engaged with said border member, said attaching members having bendable prongs at their inner ends engageable with the tie rod, and fasteners engaged with said attaching members and disposed through the wrapping, padding and core in clamping engagement therewith in substantially spaced relation to the outer edge of the roll.

3. The combination with a spring assembly including body springs, a top border member disposed along one side of the assembly and secured to the outer sides of top coils of outer springs, and a tie rod disposed in spaced parallel relation to the border member and connected to the top coils of springs to which the border member is connected, said tie rod and top border member being connected to the top coils on the opposite sides of the axial centers of the top coils, of an edge roll comprising an elongated resilient core of crumpled paper, a relatively softer resilient padding of multiply sheet cellulose tissue embracing the core, and a wrapping of fabric, the roll being of inwardly tapered section, its enlarged outer edge portion being of curved section, bendable attaching members having turned hooks at their outer ends disposed around said border member, said attaching members having bendable prongs at their inner ends disposed around said border member, and fasteners engaged with said attaching members and disposed through the wrapping, padding and core in clamping engagement therewith in substantially spaced relation to the outer edge of the roll.

4. The combination with a spring assembly including body springs, a top border member disposed along one side of the assembly and secured to the outer sides of top coils of outer springs, and a tie rod disposed in spaced parallel relation to the border member and connected to the top coils of springs to which the border member is connected, said tie rod and top border member being connected to the top coils on the opposite sides of the axial centers of the top coils, of an edge roll comprising an elongated resilient core of crumpled paper, a relatively softer resilient padding of multiply sheet cellulose tissue embracing the core, and a wrapping of fabric, the roll being of inwardly tapered section, its enlarged outer edge portion being of curved section, the wrapping extending inwardly beyond the padding and providing a flap-like edge extension of superimposed edge portions, there being a longitudinal row of stitches in said flap extension through said superimposed edge portions, bendable attaching members having turned hooks at their outer ends engaged with said border member, said attaching members having bendable prongs at their inner ends engageable with the tie rod, and fasteners engaged with said attaching members and disposed through the wrapping, padding and core in clamping engagement therewith in substantially spaced relation to the outer edge of the roll.

5. The combination with an edge roll for use in the upholstering of spring assemblies comprising an elongated resilient core of crumpled sheets of paper, a relatively softer resilient padding of cellulose tissue embracing the core, and a wrapping of fabric, the roll being of inwardly tapered section, its enlarged outer edge being of curved section, the wrapping extending inwardly beyond the padding and providing a flap-like edge extension, there being a longitudinal row of stitches in said flap extension through said superimposed edge portions, bendable attaching members having turned assembly engaging hooks at their outer ends, said attaching members having offsets therein and bendable attaching prongs, staple-like fasteners engaged with said offsets and disposed through the covering, padding and core in substantially spaced relation to the outer edge of the roll, and clips securing the said extension of the roll to said attaching members.

6. The combination with an edge roll for use in the upholstering of spring assemblies comprising an elongated resilient core of crumpled sheets of paper, a relatively softer resilient padding of cellulose tissue embracing the core, and a wrapping of fabric surrounding said padding, the roll being of inwardly tapered section, its enlarged outer edge being of curved section, bendable attaching members having turned assembly engaging hooks at their outer ends, said attaching members having offsets wherein and bendable attaching prongs, staple-like fasteners engaged with said offsets disposed through the wrapping, padding and core in substantially spaced relation to the outer edge of the roll.

7. The combination with an edge roll for use in upholstering spring assemblies and the like comprising an elongated resilient core, a relatively softer resilient padding embracing the core, and a wrapping of fabric surrounding said
padding, the roll being of inwardly tapered section, its enlarged outer edge being of curved section, the wrapping extending inwardly beyond the padding and providing a flap-like edge extension, there being a longitudinal row of stitches at the inner edge of said flap extension, of bendable attaching members having inturned assembly engaging hooks at their outer ends, fasteners engaged with said attaching members and disposed through the wrapping, padding and core in substantially spaced relation to the outer edge of the roll, and clips securing the said flap portion of the roll to said attaching members.

8. The combination with an edge roll for use in upholstering spring assemblies and the like comprising an elongated resilient core, a relatively softer resilient padding embracing the core, and a wrapping of fabric surrounding said padding, of bendable attaching members disposed transversely of and beneath said edge roll and having inturned assembly engaging hooks at their outer ends, fasteners extending around said attaching members intermediate said hooks and the inner ends of the attaching members and disposed through the wrapping, padding and core in substantially spaced relation to the outer edge of the roll, the inner end portions of said attaching members being bendable upon themselves to provide assembly engaging members.

9. The combination with an edge roll for use in upholstering comprising a resilient core, a relatively softer resilient padding embracing the resilient core, and a wrapping of fabric surrounding said padding, the roll being of inwardly tapered section, its outer edge being of curved section, the wrapping extending inwardly beyond the padding and providing a flap-like extension adapted to receive engaging hooks, of bendable attaching members disposed on the under side of and transversely of said roll and secured thereto and having inwardly facing hooks at their outer ends and bendable prongs at their inner ends, said hooks and prongs being engageable with parts of the spring assembly to be upholstered, and clips securing the flap portion of the roll to said attaching members.

10. The combination with an edge roll for use in the upholstering of spring assemblies including a fabric wrapping extended at the inner side of the roll to provide a flap adapted to receive attaching clips, of bendable attaching members disposed transversely of said roll and secured thereto having assembly engaging hooks at their outer ends and bendable assembly engaging prongs at their inner ends, and clips securing the said roll flaps to said attaching members, said clips extending through said flap and around said attaching members intermediate said hooks and prongs thereof.

11. The combination with an edge roll for use in the upholstering of spring assemblies including a fabric wrapping extended at the inner side of the roll to provide a flap adapted to receive attaching clips, of attaching members disposed transversely of said roll and secured thereto and terminating at each end in support engaging elements, and clips disposed through said flap and around said attaching members intermediate the support engaging elements thereof.

12. The combination with an edge roll for use in the upholstering of spring assemblies, of bendable attaching members disposed transversely of and beneath said roll and secured thereto and having assembly engaging hooks at their outer ends and bendable assembly engaging prongs at their inner ends, and means for securing said edge roll to said attaching members, said means extending around said attaching members intermediate the hooks and prongs thereof.

13. The combination with an edge roll for use in the upholstering of spring assemblies, of bendable attaching members disposed transversely of and beneath said roll and secured thereto and having assembly engaging elements at their inner ends, and means for securing said edge roll to said attaching members, said means being disposed through said edge roll and around said attaching members intermediate the ends thereof.

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