July 20, 1926.

1,592,870

N. SCHOLZEN

SPRING CUSHION

Filed April 9, 1924

Fig. 1.

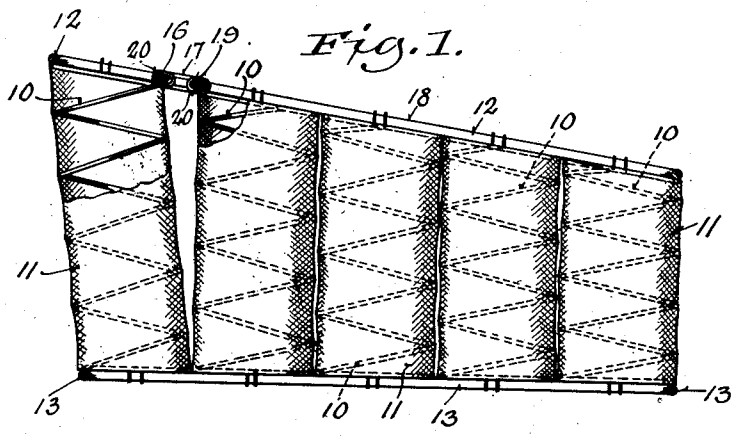
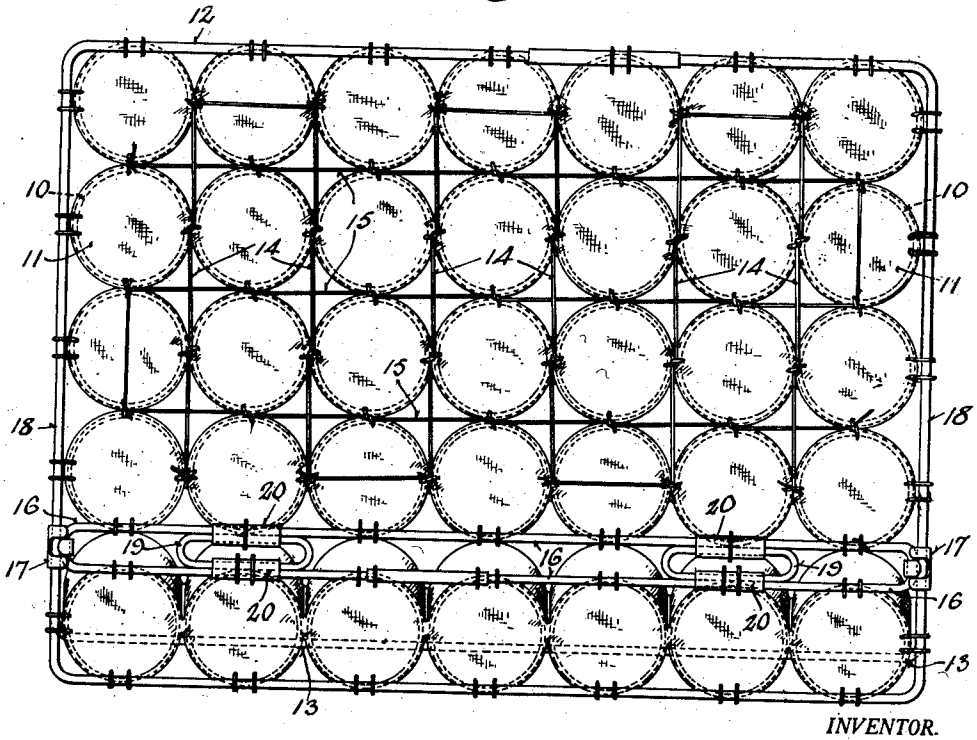


Fig. 2.



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UNITED STATES PATENT OFFICE.

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SPRING CUSHION.

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This invention relates to spring cushions and particularly to cushions of the type embodying a mass of closely associated upright coil springs.

It is highly desirable in many forms of cushions, and particularly in automobile seat cushions, that the upper front edge of the cushion project sufficiently beyond the corresponding lower edge as to produce a decided overhanging effect. So far as I am aware, this has never before been accomplished in this type of cushion, except by the use of additional padding applied to the front face of the cushion adjacent the upper edge. This expedient not only adds to the upholstering cost but results in a cushion that is subject to unsightly distortion in use.

One object of the present invention is the provision of a spring body for cushions of this type which will afford and maintain the desired overhanging effect.

Another object is the provision in a cushion of the character mentioned of a novel arrangement of springs affording a full spring support for the entire upper face including the forward overhanging edge thereof.

Another object is the provision of a spring cushion having a novel arrangement of parts by which the front forward edge thereof is firmly braced and retained against distortion.

These and other objects and advantages will appear from the following description of an illustrative embodiment of the present invention.

In the drawings:

Figure 1 is a transverse sectional view of a spring cushion body constructed in accordance with the present invention.

Figure 2 is a top plan view of the cushion of Figure 1.

The cushion body shown comprises a mass of upright coiled springs 10 arranged in closely associated rows extending lengthwise of the cushion. The springs are enclosed in individual pockets formed by the fabric 11 in the usual manner. Except as hereinafter pointed out, the springs are tied together and to the usual upper and lower heavy wire frames 12 and 13 in the usual manner, the usual transverse and longitudinal cords 14 and 15 being also employed to further insure and maintain them in proper assembled relation. The upper frame 12 is inclined relative to the lower frame 13, so as to provide the desired seat pitch, and to this end the springs of the several rows are of different graduated lengths.

In this instance, the upper frame 12 is of considerably greater width than the lower frame 13 so as to project forwardly a predetermined distance therebeyond. To maintain this overhanging relation the springs of the forward row are inclined forwardly from their ordinary upright position and spaced at their upper ends from the adjacent row of springs. A spacer element of any appropriate form is interposed between these two rows of springs. In the cushion shown, this element comprises a pair of heavy wires 16 in parallel spaced relation connected at their ends to form a closed loop and secured at their ends by clips 17 or otherwise to the side members 18 of the upper frame. The wires 16 are connected and braced intermediate their ends by wire loops 19 secured thereto by clips 20. The upper ends of the forward row of springs are securely tied to the forward edge or wire of the upper frame and to the adjacent wire 16 of the spacer element, so that the spacer element through these springs serves to brace the forward edge of the frame. The next adjacent row of springs are tied at their upper ends to the rear wire 16 of the spacer element so that they are permanently retained in definite spaced relation from the forward row.

It will thus be noted that the front face of the cushion shown has a decided overhanging effect. The forward row of springs, due to their inclined relation, exert a pressure tending to maintain the upper frame in this overhanging position, and provide ample spring support for this overhanging edge.

Various changes may be made in the embodiment of the invention hereinabove specifically described, without departing from or sacrificing any of the advantages of the invention as defined in the appended claims.

I claim:

1. A spring cushion comprising a frame having a forward edge, a mass of upright coil springs supporting said frame and including a row of springs inclined inwardly from said forward edge thereby presenting a correspondingly inclined wall, and a spacer element disposed between the upper

ends of said row of inclined springs and the remainder of the springs.

2. A spring cushion comprising a frame having a forward edge, a mass of upright coil springs supporting said frame and including a set of springs inclined inwardly from said forward edge, and a substantially rigid spacer element extending parallel to said edge between the upper ends of said inclined springs and the other of said springs for positioning said springs and for reinforcing said forward edge.

3. A spring cushion comprising a frame having a forward edge, a mass of upright coil springs of different graduated lengths for supporting said frame in inclined position with said forward edge uppermost, means for retaining the lower ends of said springs in assembled relation, and an element secured to said frame substantially parallel with said edge for maintaining the upper ends of certain of said springs in spaced relation.

4. A spring cushion comprising a lower frame, an upper frame overhanging said lower frame, a mass of upright coil springs connecting said frames, and a spacer element secured to said upper frame and connected with and between the upper ends of certain of said springs to maintain an angular relation therebetween.

5. A spring cushion comprising a lower frame, an upper frame overhanging said lower frame at one side thereof, a mass of upright coil springs connecting said frames, and a spacer element extending substantially parallel with said overhanging side and between the upper ends of certain of said springs to maintain an angular relation between said separated springs.

6. A spring cushion comprising a lower frame, an upper frame overhanging said lower frame at one side thereof, and a mass of upright coil springs connecting said frames, said mass of springs including a set of springs supporting the overhanging portion of said upper frame and inclined to maintain said upper frame in overhanging position.

In witness whereof, I hereunto subscribe my name this 31st day of March, 1924.

NICHOLAS SCHOLZEN.