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B. L. VAN ORMAN

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SPRING STRUCTURE

Original Filed March 2, 1923

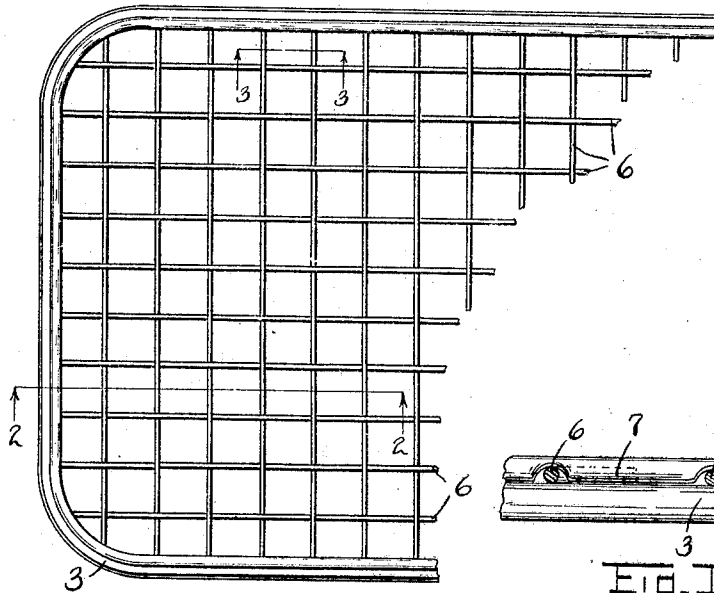


FIG. I.

FIG. III.

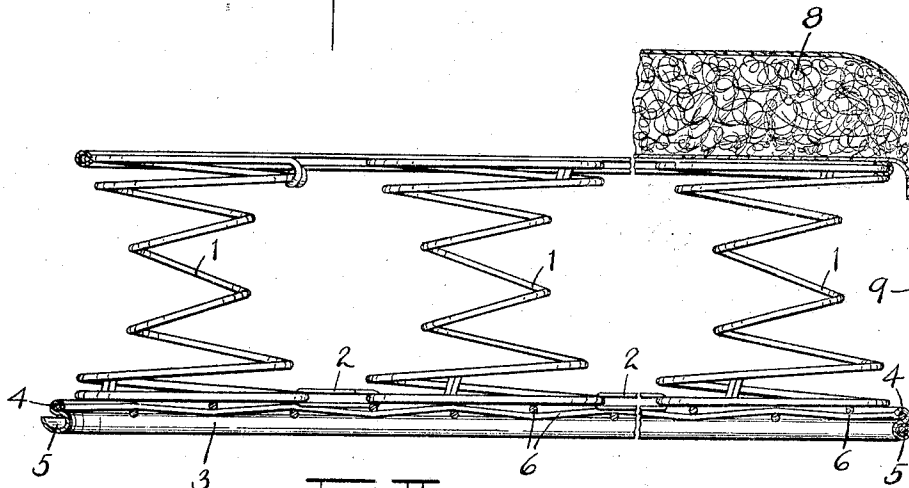


FIG. II.

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SPRING STRUCTURE.

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To all whom it may concern:

Be it known that I, BERT L. VAN ORMAN, a citizen of the United States, residing at Highland Park, county of Wayne, State of Michigan, have invented certain new and useful Improvements in Spring Structures, of which the following is a specification.

This invention relates to improvements in spring structures.

The main objects of this invention are:

First, to provide in a spring structure an improved supporting base which effectively supports the springs and is also adapted for the attachment or securing of the upholstery.

Second, to provide an improved spring structure in which the springs are effectively supported throughout the cushion without direct attachment to the base, the springs if desired being assembled as a complete unit.

Third, to provide an improved spring structure in which the parts are rapidly and effectively assembled by the upholsterer.

Further objects, and objects relating to structural details, will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification. The invention is clearly defined and pointed out in the claims.

A structure which is a preferred embodiment of my invention is clearly illustrated in the accompanying drawing, forming a part of this application, in which:

Fig. I is a plan view of my improved spring cushion base structure.

Fig. II is a fragmentary vertical section of a spring cushion structure embodying the features of my invention on a line corresponding to line 2—2 of Fig. I.

Fig. III is an enlarged fragmentary section on a line corresponding to line 3—3 of Fig. I.

In the drawing similar reference characters refer to similar parts throughout the several views.

Referring to the drawing, 1 represents the body springs which are here shown of the conventional double helically coiled type. These springs may be connected as a unit by any suitable means as by the links 2, the main function of these links, however,

being to keep the springs in properly spaced relation.

I provide a supporting base for the springs comprising the border frame 3 of S cross section providing an inwardly facing upper channel 4 and an outwardly facing lower channel 5. The base grid formed of interwoven wires 6 is secured to this frame by turning the ends of the grid wires laterally as indicated by the dotted line in Fig. III and clamping the upper inwardly facing channel thereon.

The wires are thus not only secured to the frame but they are held in proper spaced relation. The body springs 1 are supported directly by this wire grid.

The upholstery shown conventionally at 8 is provided with a skirt 9, the lower edge of which is clamped within the outwardly facing channel 5 thus securing the upholstery to the cushion and providing a suitable binding for the upholstery covering.

With the parts thus formed and arranged, they are very economical to produce and very easily assembled, the finished structure being very strong and durable.

I have shown conventional type of springs 1 but springs of other types and otherwise connected as by means of connected fabric pockets may be utilized. The various types of springs which may be used are not illustrated as the disclosure made will, it is believed, enable those skilled in the art to which the invention relates to adapt or embody the same as may be desired.

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

1. The combination in a structure of the class described, with a plurality of body springs, of a supporting base therefor comprising a border frame of S cross section providing an inwardly facing channel and an outwardly facing channel, a base grid of interwoven wires on which said body springs are disposed, said grid wires having lateral end projections clamped within said inwardly facing channel, and an upholstery covering comprising a skirt portion having its lower edge clamped by said outwardly facing channel.

2. A base for spring cushion structures comprising a border frame of S cross sec-

tion providing an inwardly facing channel and an outwardly facing channel, and a base grid of interwoven wires, the ends of the wires being laterally turned and clamped
5 within said inwardly facing channel thereby securing the grid to the frame and the grid wires in spaced relation, said outwardly facing channel being adapted to receive and clamp the lower edge of the skirt of a
10 cushion covering.

3. The combination in a structure of the class described with a plurality of body springs, of a supporting base therefor comprising a border frame having an inwardly
15 facing channel and an outwardly facing channel, a base grid of crossed wires on which said body springs are disposed, said grid wires being provided with laterally disposed terminal members clamped within

said inwardly facing channel, and an upholstery covering comprising a skirt portion secured by said outwardly facing channel.

4. The combination in a structure of the class described with a plurality of body springs, of a supporting base therefor comprising a border frame of sheet metal con-
25 formed to provide an outwardly facing channel and an inwardly facing channel, a base grid of crossed wires on which said body springs are disposed, said grid wires being provided with laterally disposed terminal members clamped within said inwardly facing channel, and an upholstery covering comprising a skirt portion secured
25 by said outwardly facing channel.

In witness whereof, I have hereunto set my hand and seal.

BERT L. VAN ORMAN. [L. S.]