F. J. FOILL.

SPRING CUSHION CONSTRUCTION.

APPLICATION FILED DEC. 3, 1913.

1,133,119. Patented Mar. 23, 1915.

Fig. 1.

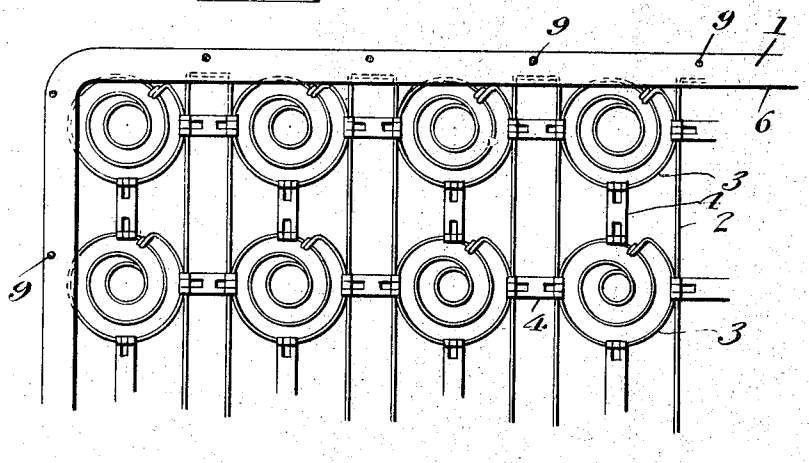


Fig. 2.

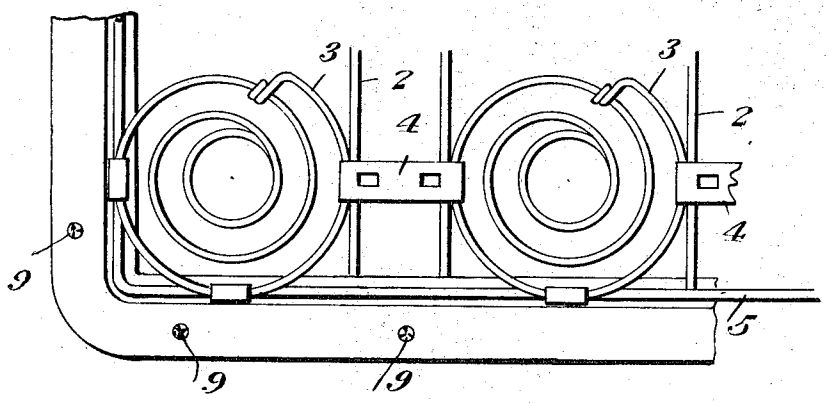


Fig. 3.

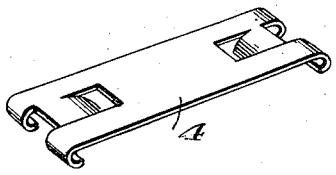
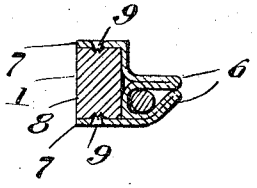


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

FREDRICK J. FOILL, OF JACKSON, MICHIGAN.

SPRING-CUSHION CONSTRUCTION.

1,133,119. Specification of Letters Patent. Patented Mar. 23, 1915.

Application filed December 3, 1913. Serial No. 804,501.

To all whom it may concern:

Be it known that I, FREDRICK J. FOILL, a citizen of the United States, residing at Jackson, in the county of Jackson and State of Michigan, have invented new and useful Improvements in Spring-Cushion Construction, of which the following is a specification.

This invention relates to spring cushion construction and more particularly to that type of spring cushions which are adapted for use with box bed springs, automobile seats and like constructions wherein the springs are covered by upholstering.

The principal object of the invention is to provide a simple and efficient device wherein the springs may be connected conveniently without rivets or other similar securing means to the frame, wherein the frame is adapted to receive suitable upholstery tacks and wherein the springs are properly connected together without tying.

Another object of the invention is to construct the frame strip in such a manner that the springs may be connected thereto without using rivets or other similar fastening devices and also in producing a strip with an insert arranged to receive upholstery fastening devices.

Further objects of the invention will appear as the following description is read in connection with the accompanying drawing, which forms a part of this application, and in which—

Figure 1 is a bottom plan view showing a portion of a spring cushion seat frame. Fig. 2 is a detail top plan view showing the manner of connecting the springs. Fig. 3 is a perspective view of one of the spring connecting clips. Fig. 4 is a transverse section through the spring frame showing what may be termed the upholstery strip on an enlarged scale.

The cushion comprises the frame 1, supporting wires 2 extending across the same and having mounted thereon the coil springs 3 which are connected together by the clips 4 and an upper retaining frame 5 of resilient material. The frame 1 is constructed of one or more pieces of material, preferably sheet metal of the required strength and each piece is bent, as shown in Fig. 4, to produce opposite pairs of parallel flanges 6 and 7, the flanges 6 being double and having a relatively narrow space between the same while the flanges 7 are of single thickness and having a relatively wide space between the same. The cross bars and the coil springs are attached to the frame 1 by inserting portions thereof into or between the flanges 6 and upsetting or offsetting one of the flanges so as to clinch the wires therein.

Seated within or between the flanges 7 is a strip of wood or other suitable material indicated at 8. This strip is held in position between the flanges by the burrs 9 formed by pinching holes in the metal, as shown. The upholstery for covering the springs can be readily tacked to the strip 8 without weakening the frame piece and as these fastenings are the only kind used in the construction of the cushion it will be readily seen that the same may be constructed in an efficient and relatively cheap manner, at the same time producing an extremely light construction.

What is claimed is:—

In a spring cushion, a frame comprising a single strip of sheet metal bent at its opposite ends to provide a pair of parallel flanges, and bent at its intermediate portion and in an opposite direction to the first mentioned flanges, to provide another pair of converging flanges, the latter mentioned flanges being of double thickness, springs and supporting devices secured between the double thickened intermediate flanges, an upholstery mounting strip arranged between said end flanges and burrs formed on said end flanges and adapted to be embedded in said strip for holding the latter therebetween.

In testimony whereof I affix my signature in presence of two witnesses.

FREDRICK J. FOILL.

Witnesses:

A. LYMAN VINCENT,

NINA A. STROBEL.