Oct. 25, 1938. W. W. GLEASON 2,134,363

SPRING ASSEMBLY FOR UPHOLSTERY

Filed Jan. 11, 1937

Fig. 1.

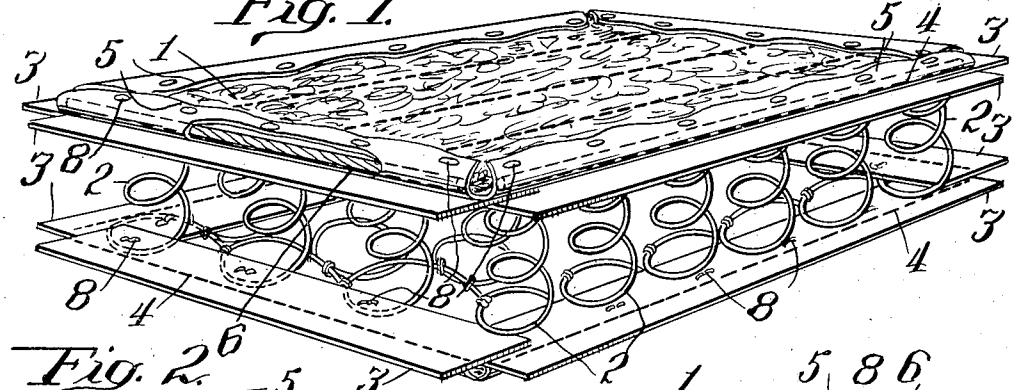


Fig. 2.

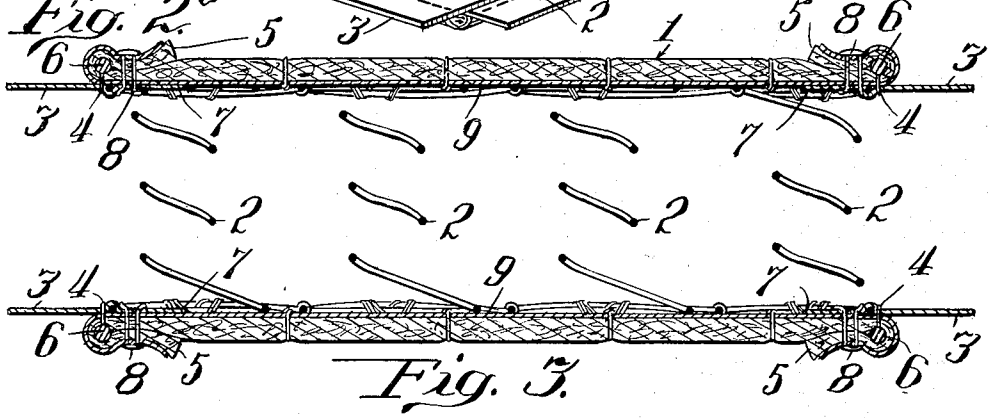
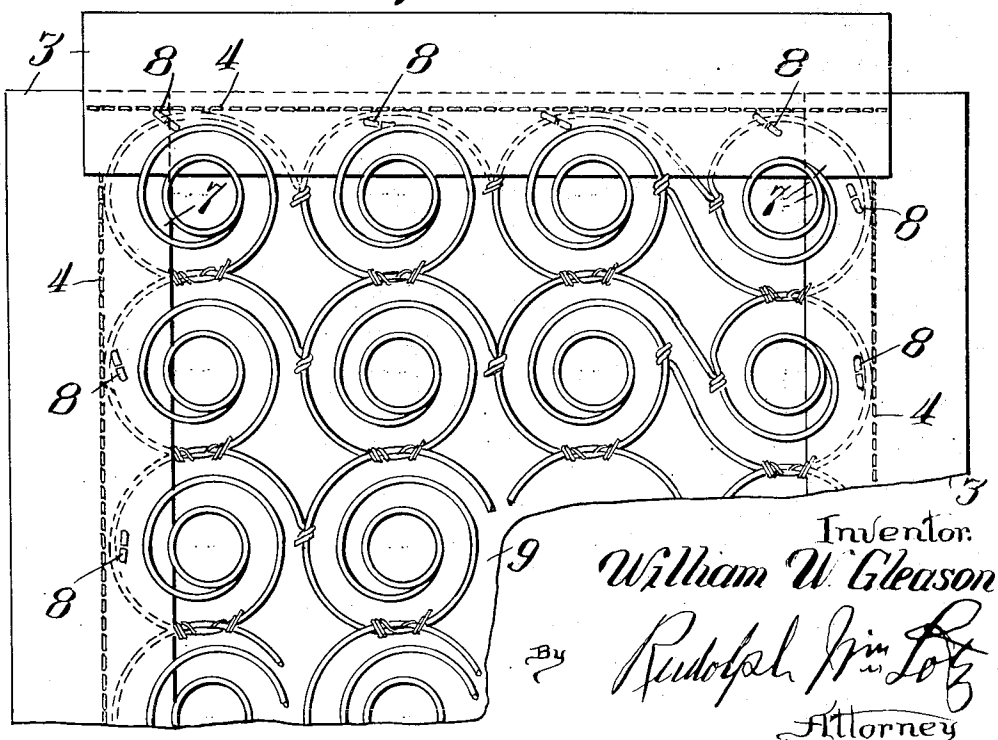


Fig. 3.



Inventor:
William W. Gleason
By Rudolph Wm. Lotz
Attorney

Patented Oct. 25, 1938 2,134,363

# UNITED STATES PATENT OFFICE

2,134,363

## SPRING ASSEMBLY FOR UPHOLSTERY

William W. Gleason, Chicago, Ill., assignor to Nachman-Springfilled Corporation, Chicago, Ill., a corporation of Illinois

Application January 11, 1937, Serial No. 119,985

3 Claims. (Cl. 5—351)

The main object of the present invention is to provide a spring assembly equipped with batts of a fibrous material on its opposite faces which are secured marginally to the marginal edge portions of the spring assembly and means which also provide for the attachment of the boxing strip and the cover fabrics of the completed mattress to the spring assembly.

Another object of the invention is to provide a spring assembly of the type set forth wherein the marginal edges of the cover batts are folded over upon the body of said batt and are secured in place by the means which effect the attachment of the batts to the spring assembly.

Still another object of the invention is to provide a structure of the type defined in the preceding paragraphs wherein the folded over marginal edge portions of the cover batts enclose a relatively stiff filler element or elements which cooperates with the folded edge portion to provide what may be termed an inner roll edge for the completed mattress and acts also as a means for preventing the buckling of the spring assembly in the operation of introducing the same into cover fabrics as is done in some instances, and which, in other instances, when a certain conventional type, or types, of spring assembly is used, acts to prevent the springs of the said assembly from crowding together into overlapped relation to each other.

A suitable embodiment of the invention is illustrated in the accompanying drawing wherein,

Fig. 1 is a perspective view of a spring assembly constructed in accordance with the present invention.

Fig. 2 is a vertical, transverse, sectional view of the same on an enlarged scale.

Fig. 3 is a fragmentary plan sectional view of the spring assembly with the top batt removed.

In the instance illustrated a spring assembly of the all metal type is illustrated, the structure of said spring assembly being substantially the same as that which is illustrated and described in the re-issue patent to Oliver Hetherington, No. 19,347, and wherein each of the component springs of the structure is secured to the several contiguous springs in a suitable manner. Obviously, the present invention is applicable to this particular type of spring assembly and to all other types of conventional spring assemblies wherein upholstery springs are employed, including the type of spring assembly illustrated and described in Patent No. 1,053,675 to Alexander Suekoff, and also the well known Marshall type and to the type illustrated and described in Letters Patent No. 1,411,227 to Louis A. Suekoff.

As illustrated herein a batt 1 of suitable fibrous material, such for example as sisal fibre, is disposed over each face of the spring assembly composed of the springs 2, suitably tied together or otherwise maintained in predetermined relative position. Secured to the marginal edge portion of the said batt 1 parallel with and spaced from the peripheral edge thereof are strips 3 of fabric, such as cotton duck or the like, the same being secured to the batt by means of stitch chains 4, or in any other suitable manner. The said stitch chains extend through the strips 3 between the side edges thereof and parallel with the said side edges, thus providing normally two flat flanges of fabric which underlie the said marginal edge portion of each of the batts 1. The stitch chains 4 are so disposed relatively to the spring assembly as to extend substantially tangentially of the outermost portions of the end coils of the marginal springs of said spring assembly.

After the strips 3 have been secured to the marginal edge portions of the said batts 1, the latter are disposed over the faces of the spring assembly and then the marginal edge portions of the batts are folded over as indicated at 5. Preferably, before this folding over is effected, the filler strips 6, such as pieces of rope or of twisted paper, are disposed so as to be embraced in the folds of the marginal edge portions of the batt.

The inner edge portions 7 of the strips 3 are disposed so as to underlie the outer portions of the end coils of the marginal springs of the spring assembly so that said outer portions of the latter become disposed between said portions 7 of the strips 3 and the opposed faces of the batts 1.

Fastening devices, such as the rivets 8 or staples or the like, are then passed through the folded over edge portions of the batts 1, through the body portions of said batts and through the portions 7 of the strips 3 inwardly of the outermost portions of the end coils of the marginal springs of the assembly and thus secure the folds of the marginal edges of the batts 1 against unfolding and also secure the batts firmly to the marginal springs of the assembly.

In the instance illustrated the batts 1 are shown as equipped with base fabrics 9, but it will be understood that any type of batt suited to the purpose may be employed in place of the particular type therein shown.

In completing a mattress into which the spring assembly is to be incorporated, it is customary

for the manufacturer to dispose a further layer or layers of suitable padding material or fibre batts over the batts 1 to any desired depth. Cover fabrics are then disposed over the additional fibrous batts and a boxing strip is disposed around the periphery of the spring assembly. The outwardly projecting edge portions of the strips 3 are then turned outwardly from the spring assembly to practically enclose the peripheral edge portion of the added padding material and lie flat against the inner face of the boxing strip. The peripheral edge portions of the cover fabrics and the upper and lower edge portions of the boxing strip will then be secured simultaneously to the outer edge portions of the strips 3 to complete the mattress, these operations being performed in substantially the manner set forth and described in Letters Patent to R. W. Lotz No. 2,069,415.

I claim as my invention:

1. An upholstery unit comprising a conventional type of spring assembly, a cover pad therefor, strips of fabric secured to the marginal edge portions of the cover pad by fastening means engaged with said fabric strips between and substantially parallel with the side edges thereof, one side edge portion of each of said fabric strips underlying the outer portions of the marginal springs of the assembly upon which the marginal portions of said pad are supported, fastening means extending through said fabric strips adjacent an edge of each thereof and extending also through the portions of said pad overlying said last-named side edges of said strips and through the end coils of the marginal springs of the assembly upon which said pad is supported, thereby securing said pad to said marginal springs, the other side edge portions of said strips being free and projecting outwardly from the marginal springs of the assembly and disposed for connection with an edge of a boxing strip and the peripheral edge portion of a cover fabric.

2. An upholstery unit comprising a conventional type of spring assembly, a cover pad therefor, strips of fabric secured to the marginal edge portions of the cover pad in spaced relation to the periphery of said pad by fastening means engaged with said fabric strips between and substantially parallel with the side edges thereof, the marginal edge portion of said pad being folded over upon the outer face of the same, one side edge portion of each of said fabric strips underlying the outer portions of the marginal springs of the assembly upon which the marginal portions of said pad are supported, fastening means extending through said fabric strips adjacent an edge of each thereof and extending also through the folded edge portions of the said pad and through the outer portions of the end coils of the marginal springs of the assembly upon which the said folded edge portions of the pad are supported, said last-named fastening means serving to secure the pad to the spring assembly and maintain the peripheral edge portion of the pad folded, the outer edge portions of said strips projecting beyond the periphery of the padded spring assembly and being adapted to be secured to an edge portion of a boxing strip and the peripheral edge portion of a cover fabric.

3. An upholstery unit comprising a conventional type of spring assembly, a cover pad therefor having its peripheral edge portion folded over upon the body of the pad, filler means embraced by said folded edge portion of said pad, strips of fabric secured to the marginal edge portions of the cover pad, one side edge portion of each of said fabric strips underlying the outer portions of the marginal springs of the assembly upon which the marginal portions of said pad are supported, fastening means extending through said pad inwardly of the periphery thereof and through said fabric strips between and substantially parallel with the side edges thereof, and additional fastening means extending through the folded edge portion of the pad inwardly of the filler means and through the outer portions of the end coils of marginal springs of the assembly and through the inner edge portions of said fabric strips inwardly of the first-named fastening means, thereby securing the fold of the pad about the filler means and also securing said pad to the spring assembly.

WILLIAM W. GLEASON.