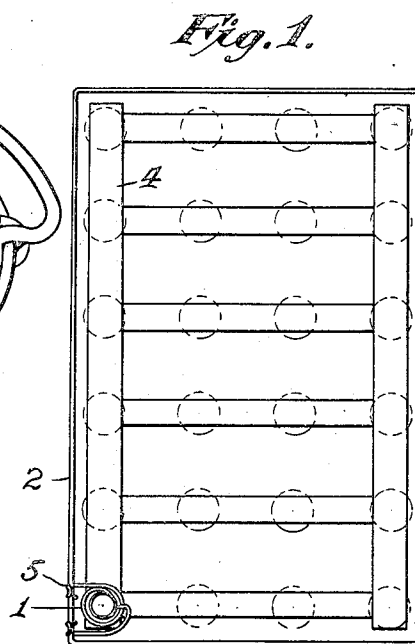
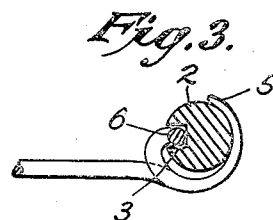
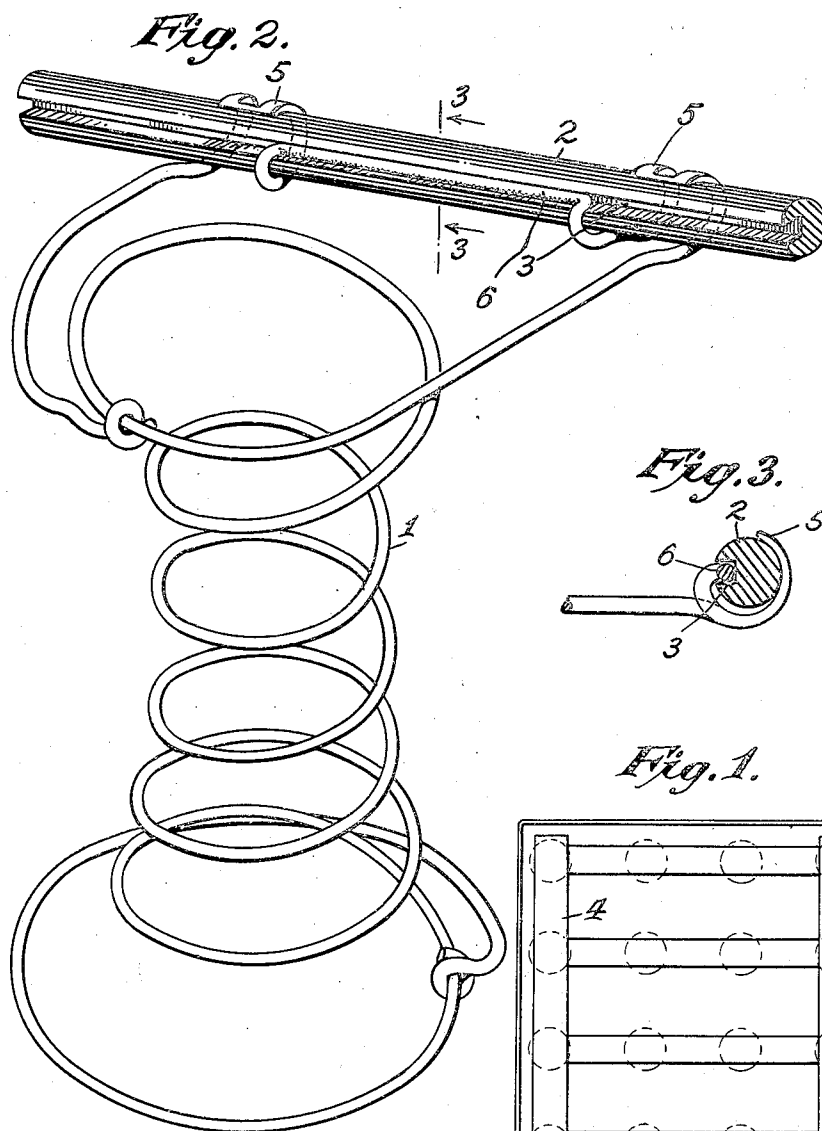


M. HERING.
FURNITURE SPRING.
APPLICATION FILED APR. 26, 1912.

1,033,101.

Patented July 23, 1912.



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UNITED STATES PATENT OFFICE.

MICHAEL HERING, OF ARLINGTON, NEW JERSEY.

FURNITURE-SPRING.

1,033,101.

Specification of Letters Patent.

Patented July 23, 1912.

Application filed April 26, 1912. Serial No. 693,301.

To all whom it may concern:

Be it known that I, MICHAEL HERING, a citizen of the United States, residing at Arlington, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Furniture-Springs, of which the following is a specification.

My present invention relates to an improvement in furniture springs, by which is intended the class of springs useful in bed springs, sofas, chairs and the like.

More particularly, the invention relates to the border-springs and their combination with the border-member or ratan that surrounds or edges the article.

The advantages of the improvement are that it secures the springs to the border member and at the same time prevents them from turning about it as an axis. These and other advantages and features of my invention will be readily understood and appreciated by those skilled in the art from the following description in connection with the drawings.

The drawings show my invention in one of the particular forms which it is adapted to take and as applied to a bed spring, Fig. 1 being a top plan view of a bed spring showing the relation of my improved border-springs with the border-member or ratan; Fig. 2 is a perspective view on a much larger scale as compared to Fig. 1 of one of the border-springs detached, and illustrating its coöperation with a piece of the ratan; and Fig. 3 is a vertical section partly in elevation on the line 3—3 in Fig. 2 looking in the direction of the arrows.

I will now describe the devices of the drawings.

1—1 designate the border-springs and 2 the border-member which edges the top of the bed spring and is best made of ratan.

3 is a longitudinal groove in the border-member 2 extending around its inside margin. The springs 1—1 are made of coiled wire and at the bottom rest upon and are secured to any suitable frame 4 constituting the bottom of the bed spring. The upper loop of each spring 1 is bent to have a pair of portions 5 which encircle or embrace the border member, thereby preventing it from being pulled away or disconnected from the springs. It is further bent to have an elongated portion 6 which is located in the groove 3 in the border-member.

The embracing portions 5 are spacially separated from each other and the groove-engaging portion 6 connects them and is preferably a straight piece lying wholly within the groove 3. More specifically, each of the embracing portions 5 consists of a U-shaped loop which is bent to extend under and then up around on the outside of the border-member sufficiently to clamp or secure it to the spring. The wire of these U-shaped loops is flattened to make them project to a minimum from the surface of the border-member. The elongated member 6 connects the inner legs of the aforesaid U-shaped loops. The result of the preferred construction is that the border-springs are permanently secured to the ratan and cannot swing or pivot in any direction relative thereto.

What I claim is:

1. In furniture, the combination of a longitudinally grooved border-member; and coiled springs, each having an upper loop bent to have spaced apart portions which severally embrace the cross section of the border-member and an elongated portion between the foregoing which enters the groove in said member.

2. In furniture, the combination of a longitudinally grooved border-member; and coiled springs, each having an upper loop bent to have spaced apart portions which severally embrace the cross section of the border-member and an elongated portion between the foregoing which enters the groove in said member, each of the foregoing embracing portions consisting of a U-shaped loop bent around the border member, and said elongated portion being a connection between the inner legs of said U-shaped loops.

3. In furniture, the combination of a longitudinally grooved border-member; and coiled springs, each having an upper loop bent to have spaced apart portions which severally embrace the cross section of the border-member and an elongated portion between the foregoing which enters the groove in said member, each of the foregoing embracing portions consisting of a U-shaped loop bent around the border member, and said elongated portion being a connection between the inner legs of said U-shaped loops, the wire of said loops being flattened in the direction of the border-member.

4. In furniture, the combination of a bor-

der-member which is longitudinally grooved at its inside margin; and coiled springs, each having an upper loop bent to have spaced apart portions which severally embrace the cross section of the border-member and an elongated portion between the foregoing which enters the groove in said member, each of the foregoing embracing portions consisting of a U-shaped loop extending under and then up around the outside of the border-member, and said elongated portion being a substantially straight length of wire located in the groove of the border-member connecting the inner legs of the U-shaped loops.

5. In furniture, the combination of a longitudinally grooved border-member; and coiled springs, each having a loop that has a portion which embraces the cross section of the border-member and a portion which enters the groove in said member.

6. In furniture, the combination of a longitudinally grooved border-member; and coiled springs, each having a loop that has a portion which embraces the cross section of the border-member and a portion which

enters the groove in said member, said embracing portion and said groove-entering portion engaging opposite sides of the cross section of the border-member.

7. In furniture, the combination of a longitudinally grooved border-member; and coiled springs, each having a loop that has a portion which embraces the cross section of the border-member and an elongated portion which enters the groove in the border-member.

8. In furniture, the combination of a longitudinally grooved border-member; and coiled springs, each having a loop that has a portion which embraces the cross section of the border-member and an elongated portion which enters the groove in said member, said embracing portion and said groove-entering portion engaging opposite sides of the cross section of the border-member.

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

MICHAEL HERING.

Witnesses:

E. W. SCHERR, Jr.,
A. C. McDONNELL.