

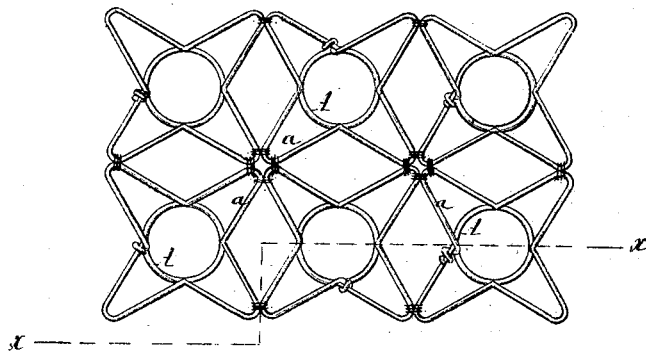
*H. C. Velie,*

*Bed Spring.*

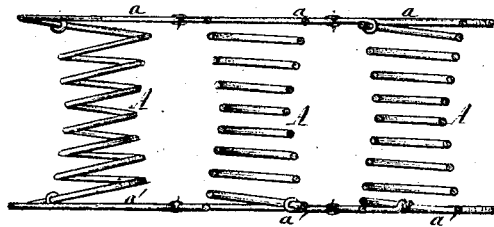
*No. 110,174.*

*Patented Dec. 13. 1870.*

*Fig. 1.*



*Fig. 2.*



*Witnesses:*

*C. Mahlers*  
*E. F. Hastenbury*

*Inventor:*

*Henry C. Velie*  
*By VauSantons Hauff*  
*his atty*

# United States Patent Office

HENRY C. VELIE, OF POUGHKEEPSIE, NEW YORK.

Letters Patent No. 110,174, dated December 13, 1870.

## IMPROVEMENT IN UPHOLSTERING-SPRINGS.

The Schedule referred to in these Letters Patent and making part of the same.

### *To all whom it may concern:*

Be it known that I, HENRY C. VELIE, of Poughkeepsie, in the county of Dutchess and State of New York, have invented a new and useful Improvement in Upholstering-Springs; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents a plan or top view of this invention.

Figure 2 is a vertical section of the same, the line *x x*, fig. 1, indicating the plane of section.

Similar letters indicate corresponding parts.

This invention relates to a spring, both ends of which are bent so as to produce star-shaped heads, each of the rays or projections of which, when two or more springs are placed side by side, bears against one or more rays of an adjoining spring, and that, when the adjoining rays are united, by means of wire or other fastenings, continuous and durable platforms are formed at top and bottom, which are not liable to separate, and which form a good support for the mattress or upholstering material placed thereon.

In the drawing the letter A designates a spring of the class commonly known as double cone springs, and made of metal wire, in the form shown in fig. 2 of the drawing.

Both ends of the wire composing said spring are bent so as to form stars *a a'*, one on top and the other at the bottom, as shown in the drawing; and if a number of these springs is placed side by side, the rays

or projections of said stars bear against each other, so that they can be readily united by wire or other means, and that each spring is supported in its position by two or more of the adjoining springs.

After the stars of a series of my springs have been united, as shown in fig. 1, a platform is produced which forms a firm support for a mattress, or for the upholstering material placed thereon.

The interspaces between the adjoining stars are comparatively small, and the quantity of upholstering material used with my springs can be reduced as compared with springs of other form or construction.

If desired, the edges of the stars which form the borders of the platform may be left rectilinear, so as to form a support for the edge of a seat or mattress.

Furthermore, by my invention I am enabled to reduce the number of springs, as compared with the space to be filled up by the same, since the stars of my springs form such a firm connection between the several springs that, in placing a weight on any spot of the platform formed by the stars, a large number of springs will be effected, and yet the several springs, being braced laterally by the adjoining springs, are not liable to become displaced.

What I claim as new, and desire to secure by Letters Patent, is—

A spring, A, having its ends bent to form stars *a a'*, as herein shown and described.

HENRY C. VELIE.

Witnesses:

LEON M. VINCENT,  
M. M. VINCENT.