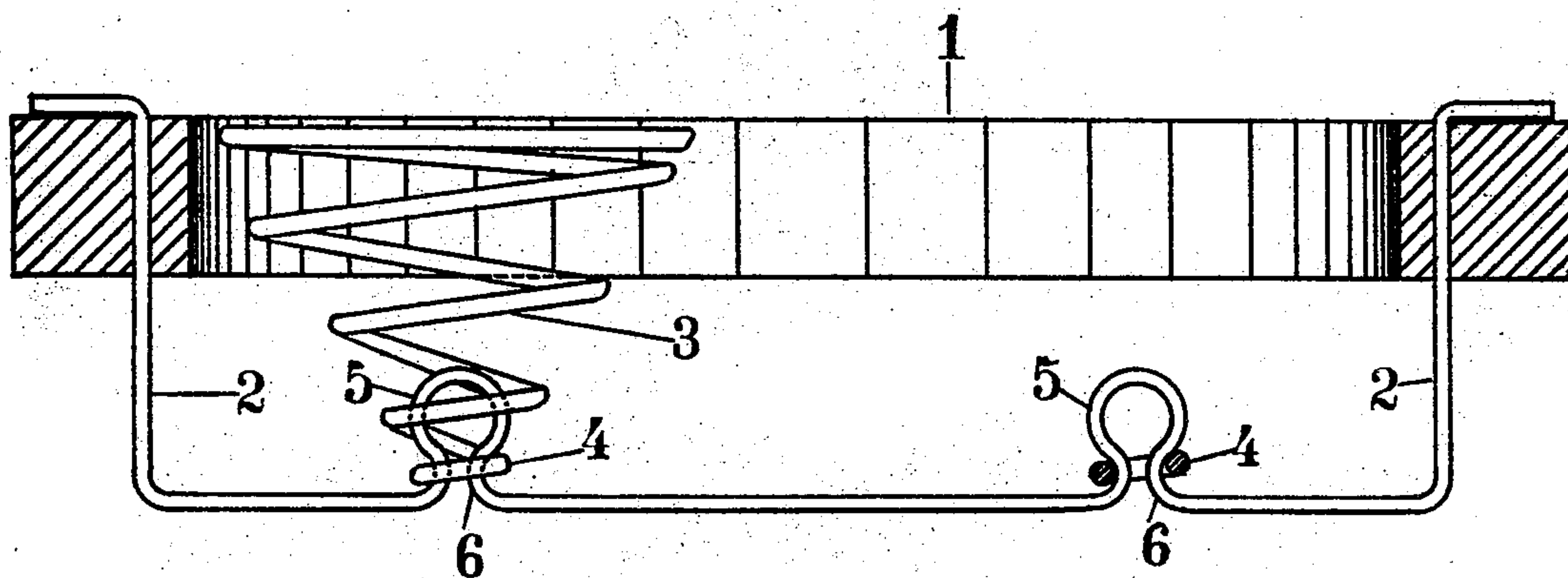


(No Model.)

J. T. HANRAHAN.
SPRING SUPPORT FOR UPHOLSTERY.

No. 514,002.

Patented Feb. 6, 1894.



Witnesses
J. E. Harris.
James M. Brown Jr.

Inventor
James T. Hanrahan
By his Attorney
W. M. Brown.

UNITED STATES PATENT OFFICE.

JAMES T. HANRAHAN, OF ALBANY, NEW YORK.

SPRING-SUPPORT FOR UPHOLSTERY.

SPECIFICATION forming part of Letters Patent No. 514,002, dated February 6, 1894.

Application filed September 7, 1893. Serial No. 484,994. (No model.)

To all whom it may concern:

Be it known that I, JAMES T. HANRAHAN, a citizen of the United States, residing at Albany, Albany county, New York, have invented certain new and useful Improvements in Spring-Supports for Upholstery; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, and to the figures of reference marked thereon, which forms a part of this specification.

The object of my invention is to provide a new and improved spring support for upholstery.

The drawing shows a longitudinal sectional view of a chair seat with my spring support shown in position in elevation with one of the springs in position and to the right a longitudinal sectional view of the lower convolution of my spring shown as inclosing the contracted neck of the projection on my support.

The numeral 1 shows the chair seat and 2 the spring support formed preferably of wire, having loops 5 which are expanded or enlarged at their upper portion and having a contracted neck 6. The spiral spring 3 has its last or smallest convolution 4 so wound or formed as to form a practically circular opening smaller than the swelled portion of the projection 5 but large enough to be forced down over the swelled portion, the resilience due to the ma-

terial of the spring 3 causing the convolution to close more or less closely about the neck 6 which prevents the spring 3 from being easily lifted off the projection 5, while the convolution 4 also keeps the neck of the projection 6 from spreading too far by any strain put on the support 2. As many projections 5 may be used as the circumstances require and their size will depend upon the nature of the work in hand. These projections while they hold the spring 3 firmly in place and from having a lateral movement also prevent any possibility of the spring moving upward and becoming disengaged from the projections.

Having described my invention, so that those skilled in the art to which it appertains may make and use the same, what I claim is—

Spring supports for upholstery having projections and springs supported thereby, a portion of the projections being enlarged and the openings in the springs being of less diameter than the enlarged portion of the projections and arranged to be forced over the enlarged portion thereof and to close about the lesser portion or neck by reason of the resilient nature of the material used substantially as described.

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

JAS. T. HANRAHAN.

Witnesses:

P. M. CURTISS,
W. M. BROWN.