

J. HEGEDÜS.

SPRINGS FOR MATTRESSES AND FURNITURE.

No. 178,770.

Patented June 13, 1876.

Fig. 1.

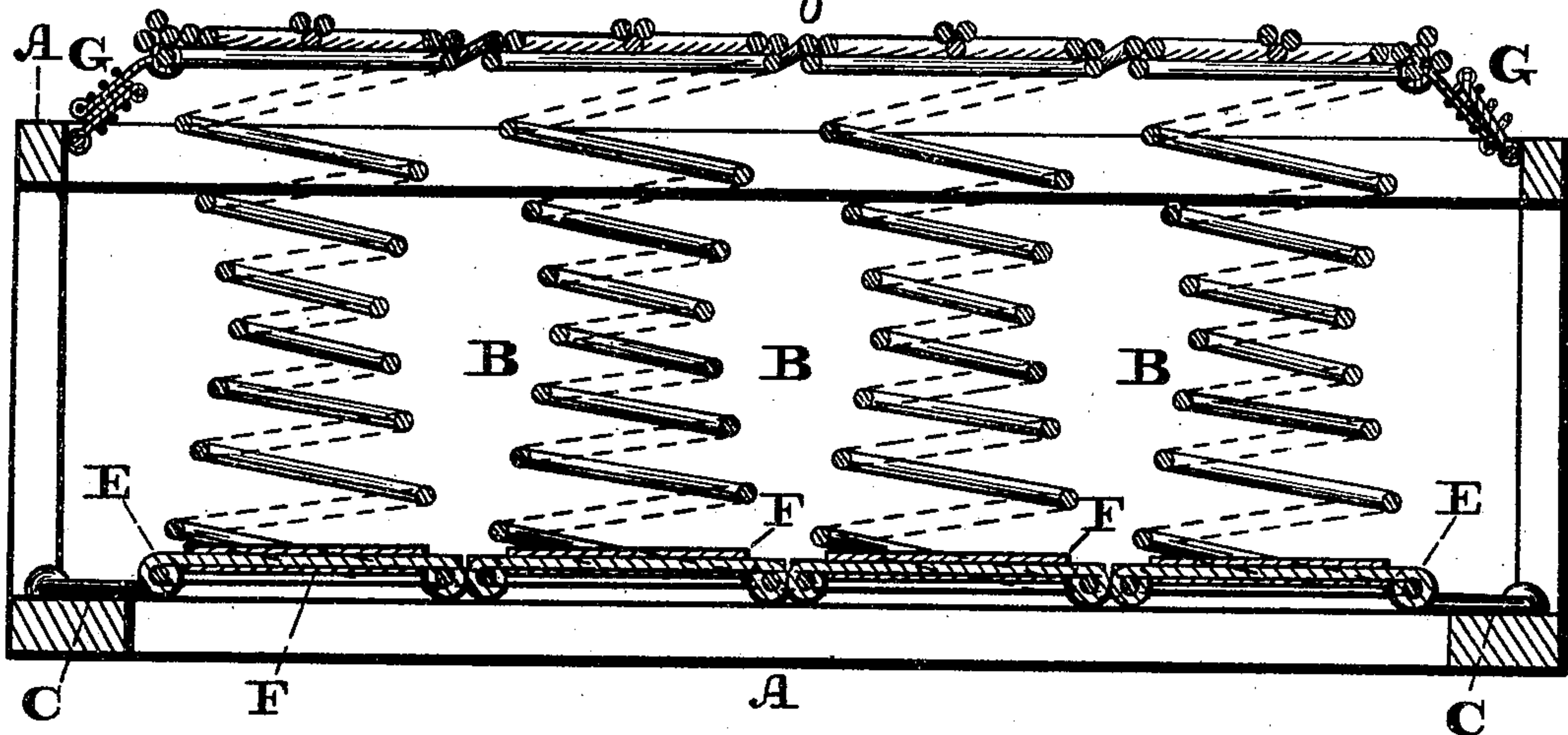


Fig. 2.

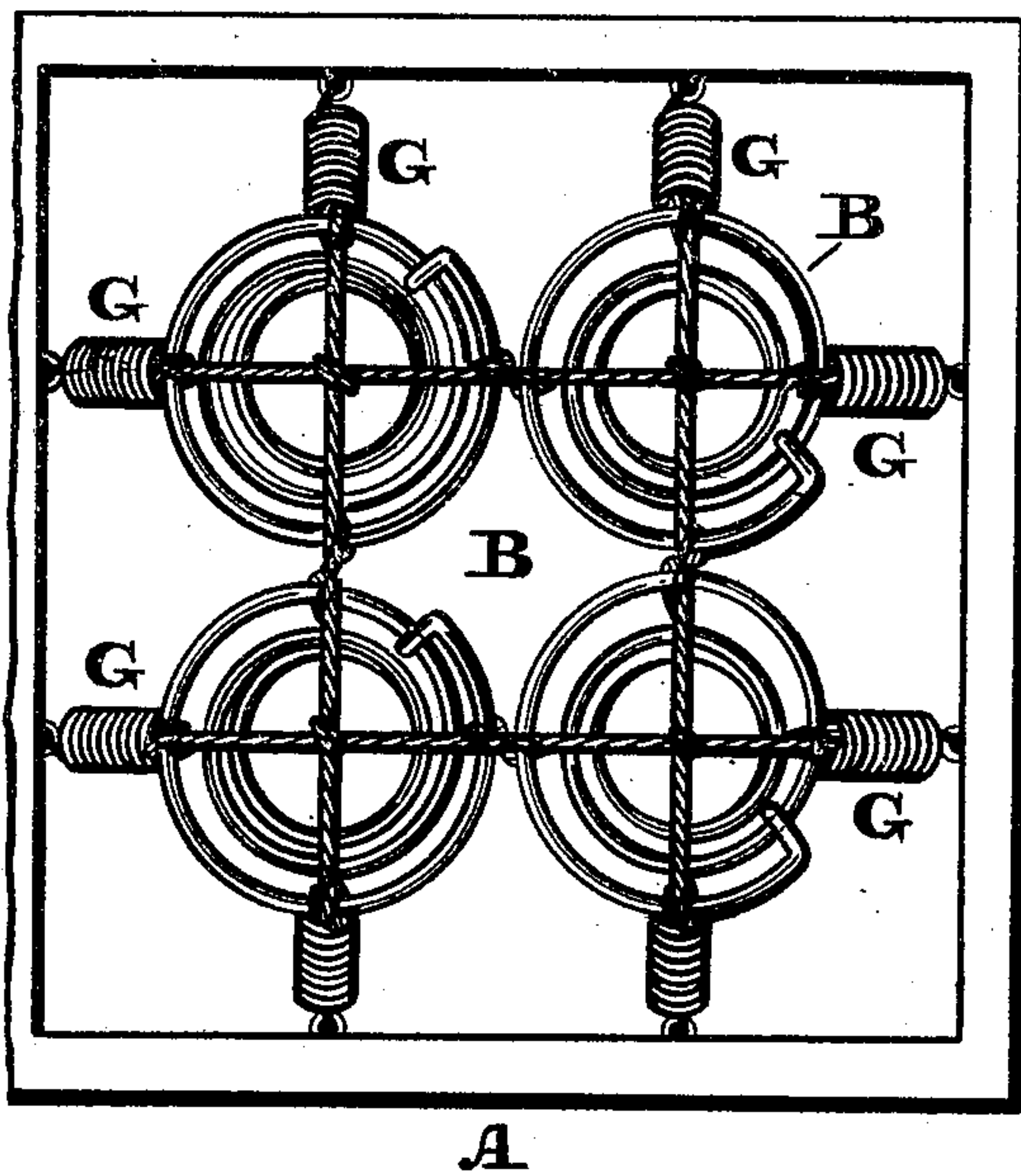


Fig. 3.

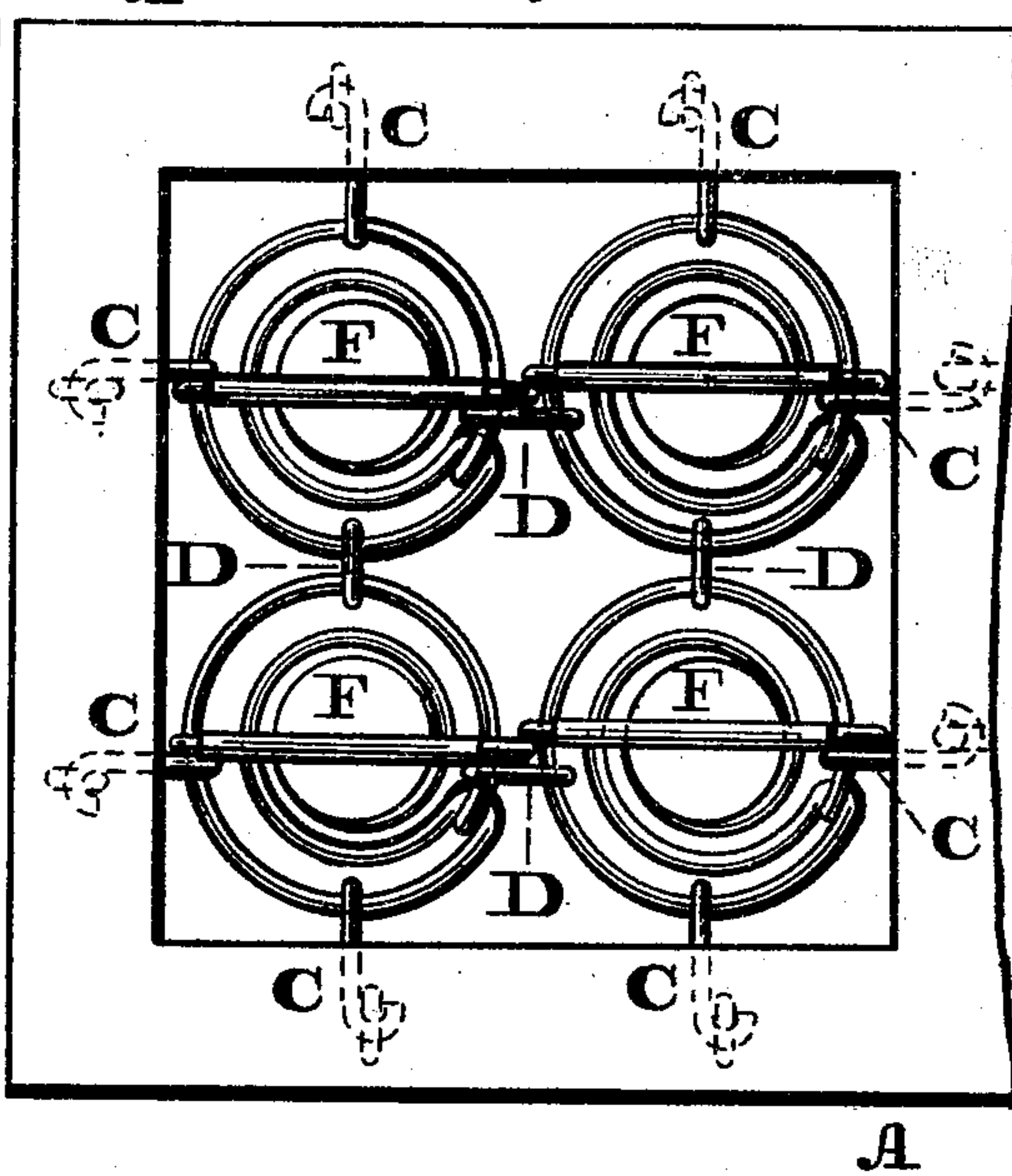
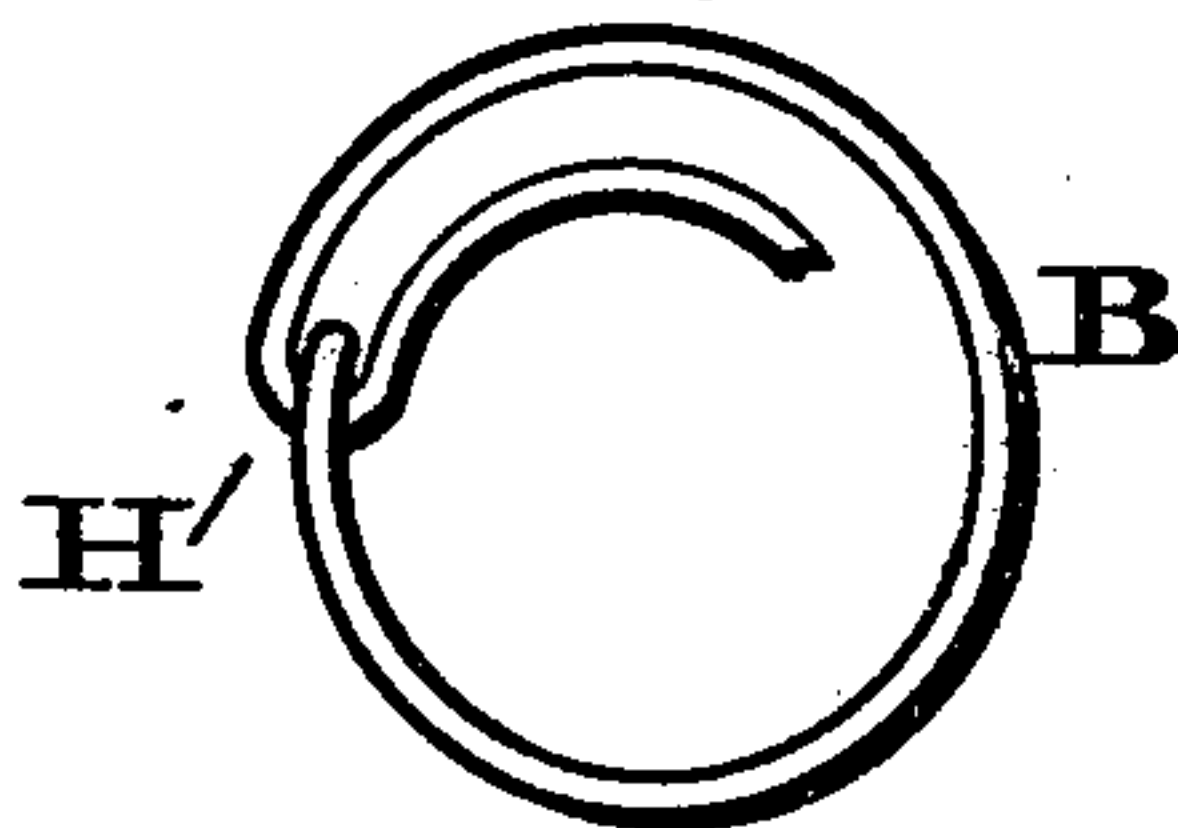


Fig. 4.



Fig. 5.



Witnesses:

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by

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# UNITED STATES PATENT OFFICE.

JAKOB HEGEDÜS, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF ONE-HALF HIS RIGHT TO JACOB POLITZER, OF SAME PLACE.

## IMPROVEMENT IN SPRINGS FOR MATTRESSES AND FURNITURE.

Specification forming part of Letters Patent No. **178,770**, dated June 13, 1876; application filed March 25, 1876.

*To all whom it may concern:*

Be it known that I, JAKOB HEGEDÜS, of the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Springs for Mattresses and Furniture Generally; and I do hereby declare the following to be a clear and exact description of the nature thereof, sufficient to enable others skilled in the art to which my invention appertains to fully understand, make, and use the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a longitudinal vertical section of a mattress having my invention applied thereto. Fig. 2 is a top or plan view thereof. Fig. 3 is a bottom view thereof. Fig. 4 is a side view of a detached part. Fig. 5 is a top or bottom view of one of the springs.

Similar letters of reference indicate corresponding parts in the several figures.

My invention has for its object the improvement in springs for mattresses and other purposes, wherein their elasticity and power of endurance are increased, webbing is dispensed with, side play is prevented, dust may be easily removed, moths and vermin will find no lodgment, noise is prevented, and expense is lessened.

The invention consists of the combination, with springs, frame, supporting-hooks, and coupling-clamps, of stiffening-clamps having coverings, against which the coils strike when there is weight on the springs. It also consists of guiding-springs at the upper ends of the coiled springs.

Referring to the drawings, A represents a frame, and B a series of coiled springs arranged therein. To the bottom part of the frame there are connected metallic hooks C, whose inner ends are attached to the bottom coils of the springs, and the several springs are coupled by means of clamps D, whose hooks engage with the bottom coils of adjacent springs, whereby the springs will be securely and steadily supported without webbing, bases, or other means. The bottom coils are also connected by clamps E, whose ends engage therewith, so as to stiffen said coils and prevent their separation. A tube, F, of rubber or other elastic material, is fitted over the clamps E, whereby, when the springs are de-

pressed by weight thereon, the coils that will strike the clamps E are brought in contact with the elastic covering F, and thus all ringing of the wire or noise of striking is prevented.

To the upper coils of the wires and upper portion of the frame A I connect guiding-springs G, which consist of coils, one or both of whose ends or stems pass within the coils, so as to guide the coils in their expansion and contraction, and said springs serve to guide the upper portion of the coiled springs when weight is thereon, thus preventing side movement of said ends and increasing the elasticity of the mattress.

In order to connect the end of the wire of which the springs are constructed I continue the coil to a certain point, then bend it and return it, so that there will be formed a loop, H, into which the extreme end of the loop or of the return portion will be hooked, and thus the end of the wire will be connected to a point of the length of the coil and securely held.

The mattress or upholstery may be placed on top of the series of springs, thus completing the bottom for purposes of beds, chairs, and furniture requiring the same.

The several clamps may be made from pieces or clippings of the springs otherwise thrown away. It will also be seen that the bottom of the spring-frame is entirely open, so that there is left no inclosure for collection of dust and lodgment of moths and vermin, and such as might settle there can be seen and readily removed by brushing or otherwise.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the frame A, springs B, supporting-hooks C, and coupling-clamps D, of the stiffening-clamps E, having coverings F, substantially as and for the purpose set forth.

2. The guiding-springs G at the upper ends of the springs B, substantially as and for the purpose set forth.

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Witnesses:

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