

E. H. TYLER.

SPRING.

No. 170,973.

Patented Dec. 14, 1875.

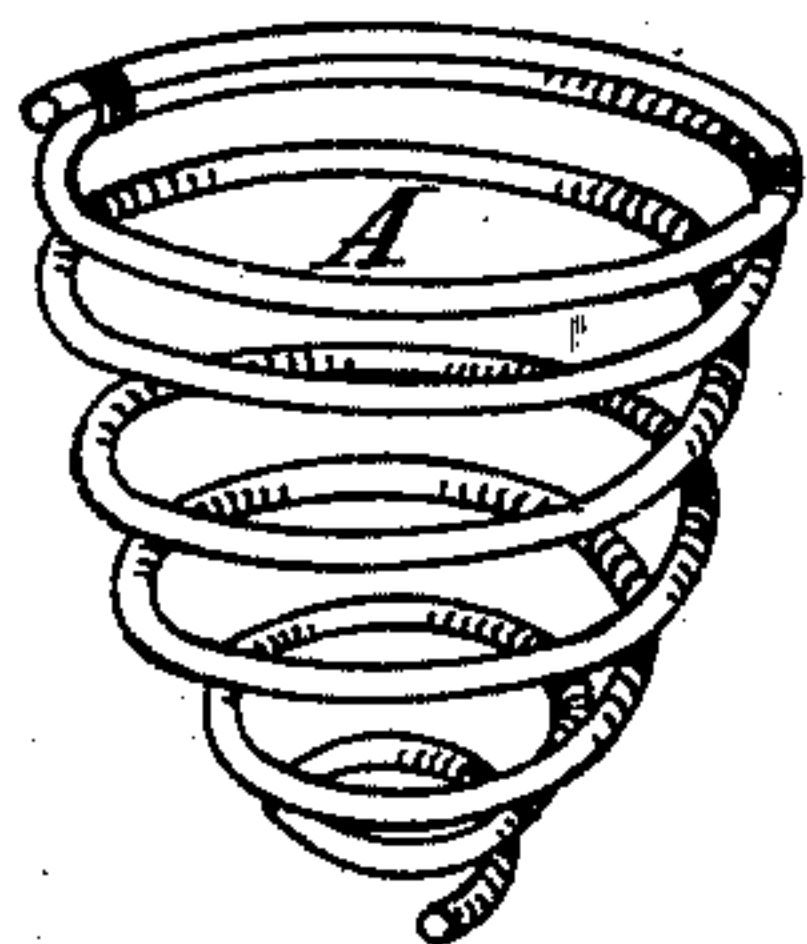


Fig. 1.

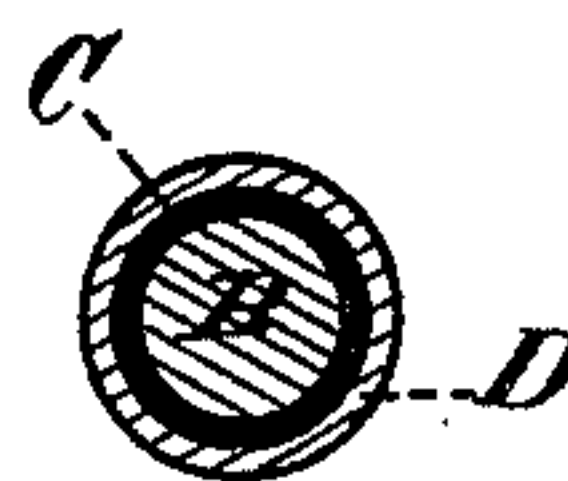


Fig. 2.

Witnesses;  
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# UNITED STATES PATENT OFFICE.

ERASTUS H. TYLER, OF MEDWAY, MASSACHUSETTS.

## IMPROVEMENT IN SPRINGS.

Specification forming part of Letters Patent No. **170,973**, dated December 14, 1875; application filed August 26, 1875.

*To all whom it may concern:*

Be it known that I, ERASTUS H. TYLER, of Medway, in the county of Norfolk, State of Massachusetts, have invented a certain new and useful Improvement in Springs, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which my invention appertains to make and use the same, reference being had to the accompanying drawing, forming a part of this specification, in which—

Figure 1 is an isometrical perspective view of my invention, and Fig. 2 an enlarged transverse section of the spring-wire.

Like letters of reference indicate corresponding parts in the different figures of the drawing.

My invention relates to that class of springs which are designed more especially for use in spring-beds, car-seats, furniture, &c.; and consists in an evolute spring having a fibrous covering connected to the body, and coated with a water-proof varnish, all as hereinafter more fully set forth and claimed.

It is well known that the springs ordinarily employed in the construction of spring-beds, car-seats, furniture, &c., soon oxidize and injure the lining or substance to which they are attached, and also that they produce a disagreeable noise by the coils coming into contact as they are compressed in use.

My invention is designed to obviate these objections, and to that end I make use of means, which will be readily understood by all conversant with such matters from the following description:

In the drawing, A represents a finished spring in position for use. The body B is composed of an elastic metallic wire coiled in the evolute form shown in Fig. 2, and coated with a coating of varnish or cement, C, outside of which is applied a covering of fibrous material, D, preferably composed of threads braided or wound as closely as possible, and in such a manner as to entirely protect the body B, the covering being caused to adhere to the body, and thus kept in place by means of the varnish or cement. The fibrous covering is varnished to render it water-proof, and protect it from dirt.

What I claim is—

As a new article of manufacture, the evolute spring A, having the body B, provided with the fibrous covering D, secured to the same by means of the cement coating C, the fibrous covering being outwardly varnished with a water-proof varnish, all substantially as set forth and specified.

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Witnesses:

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