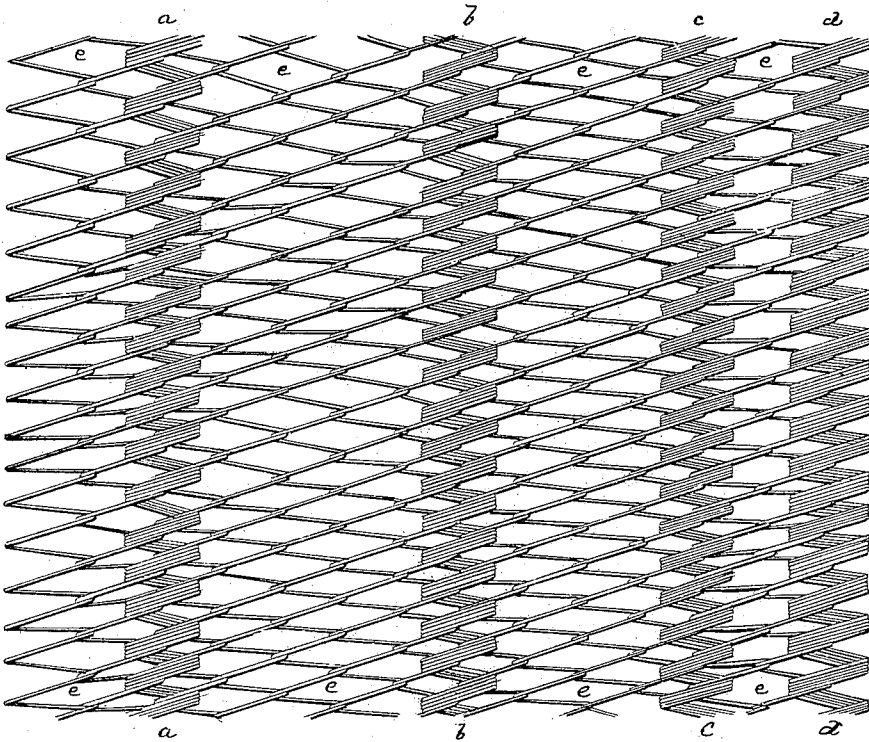


G. C. PERKINS.  
WOVEN WIRE MATTRESS.

No. 109,446.

Patented Nov. 22, 1870.



Witnesses:

Theo. G. Ellis.  
Wm. E. Simonds

Inventor.

George C. Perkins.

# United States Patent Office.

GEORGE C. PERKINS, OF HARTFORD, CONNECTICUT.

Letters Patent No. 109,446, dated November 22, 1870.

## IMPROVEMENT IN WOVEN-WIRE MATTRESSES.

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

*To all whom it may concern:*

I, GEORGE C. PERKINS, of Hartford, in the county of Hartford and State of Connecticut, have invented certain improvements in Woven-Wire Fabrics for Mattresses and Cushions, of which the following is a specification.

### *Nature and Objects of the Invention.*

My invention consists in forming cords of several spiral metallic springs in parallel coils, wound together in the manner hereinafter described; and also in weaving them into a woven-wire fabric, of any of the usual forms made of coiled wire, for the purpose of stiffening such portions as may be necessary or convenient.

### *Description of the Accompanying Drawing.*

*a b c d* are the cords of coiled wire woven into and forming part of the whole fabric.

*e e e e* is that portion of the fabric between the cords, and is shown in the drawing of single woven coiled wire.

### *General Description.*

The spirals of which the cords are formed are woven or coiled together so that the convolutions of one wire lie close to and parallel with the next, the convolutions being all of the same size and pitch. These cords can be formed by introducing the end of each coil separately at one end of the cord, and turning or screwing it through to the other end.

They may consist of any number of strands desired,

until they become solid cords of wire springs, with the exception of leaving a sufficient space for the connection of the adjoining spirals of the web if it is desired to connect them directly therewith.

In the drawing, the intermediate portions *e* of the braided web are shown as formed of single coils of wire, but they may be double, or of any form used in making mattresses, cushions, or the like. The cords of coiled wire may also be connected by a web of any other material.

When used for mattresses the stiffening-cords are placed near the edge, to give that part greater strength and stiffness. They are also placed at such distances apart all through the fabric as is found necessary, to give it the desired stiffness. They are intended to be used in such portions of the work as are found to be subject to the most strain, and they may be varied in number of strands, and may be equally or unequally spaced.

### *Claims.*

What I claim as my invention is—

1. An elastic cord, composed of a number of spiral coils of wire, substantially as described.
2. The combination of the cords of coiled wire, herein described, with a woven-wire fabric, substantially as herein set forth.

GEORGE C. PERKINS.

Witnesses:

THEO. G. ELLIS,  
WM. E. SIMONDS.