W. J. MYERS.

Bed-Bottom.

No. 212,816. Patented Mar. 4, 1879.

Fig. 1.

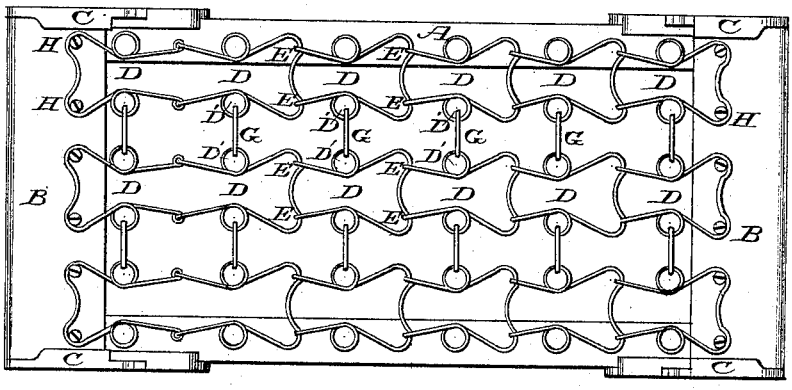
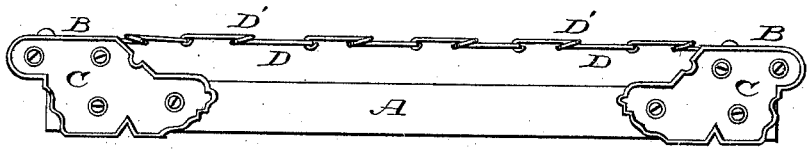


Fig. 2.



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UNITED STATES PATENT OFFICE.

WILLIAM J. MYERS, OF HARTFORD, CONNECTICUT.

IMPROVEMENT IN BED-BOTTOMS.

Specification forming part of Letters Patent No. **212,816**, dated March 4, 1879; application filed August 7, 1878.

To all whom it may concern:

Be it known that I, WILLIAM J. MYERS, of Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Bed-Bottoms; and I do hereby declare that the following is a full, clear, and exact description thereof, whereby a person skilled in the art can make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Like letters in the figures indicate the same parts.

My improvement relates to spring bed-bottoms, such as are usually placed upon bedsteads for supporting and giving elasticity to the mattress.

Bed-bottoms have been heretofore made of an elastic fabric of coiled wire supported from the ends, and have also been made of wire links of various forms composing a fabric or web which has been provided with springs of various forms at the ends to give it elasticity.

The object of my invention is to provide a bed-bottom composed of wire links, which shall be elastic throughout its whole length, and be cheaper and more easily constructed than those of coiled springs as at present used; and my invention consists in the construction and arrangement of parts that will be hereinafter described.

In the accompanying drawings, Figure 1 shows a top view of my improved bed-bottom. Fig. 2 is a side view of the same.

A A are the side bars of the frame. B B are the end bars, which are supported upon the side bars by castings, which elevate them above the side bars, as shown in the drawings, or in any other usual manner.

C C are the castings which form the corners of the frame. D D, &c., are bent-wire links of the form shown in the drawings.

At one end each link is bent into two loops, E E, for receiving the hooked ends of the next loop, to connect the two in the manner shown.

At the sides of the links the wire is bent round in the form of a circle, so as to allow the link to elongate and contract when pressure is applied to the fabric or removed. These circles form the springs which give the bed-bottom its elasticity, in the same manner that longitudinal coiled springs have heretofore been used. These springs lie horizontally in the same plane as the rest of the fabric, which renders the whole thin and flat, so as to occupy but little space when folded up. These springs are shown at D′.

G G are short lateral links, which connect the spring-loops of adjacent longitudinal links D. These merely serve the purpose of connecting the series of longitudinal links together. Being connected with the spring-rings, which lie near the middle of the sides of the longitudinal links D, they yield readily, so that the depression of one line of longitudinal links does not materially disturb those a short distance from it.

H H are screws in the end bars, B, over which the loops in the end links, D, are placed to suspend the fabric from the end bars. The fabric is placed in its proper position, hooked to the end bars, and is then stretched in any convenient manner, as is now done with similarly-suspended fabrics, until the proper tension is obtained, when it is secured by firmly screwing the end bars to the side bars, or in any other convenient manner.

My improved bed-bottom admits of being readily transported by removing the fabric and taking the frame apart. The web can be rolled either longitudinally or laterally, so as to occupy a very small compass. In this state it can be readily transported and easily set up for use. If the frame is made with screw attachments for extending the web, it can easily be stretched in its place, as it does not require so great an extension as the ordinary coiled-wire fabrics.

What I claim as my invention is—

1. A series of links, D, extending from end bar to end bar, each link being provided with springs D′, substantially as herein described.

2. The combination of the series of longitudinally-connected links D, each link having the circular springs D′, with the lateral links G, to form an elastic fabric, substantially as herein described.

WILLIAM J. MYERS.

Witnesses:

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