E. BARTON.

SPRING BED-BOTTOMS.

No. 181,623. Patented Aug. 29, 1876.

Fig. 1.

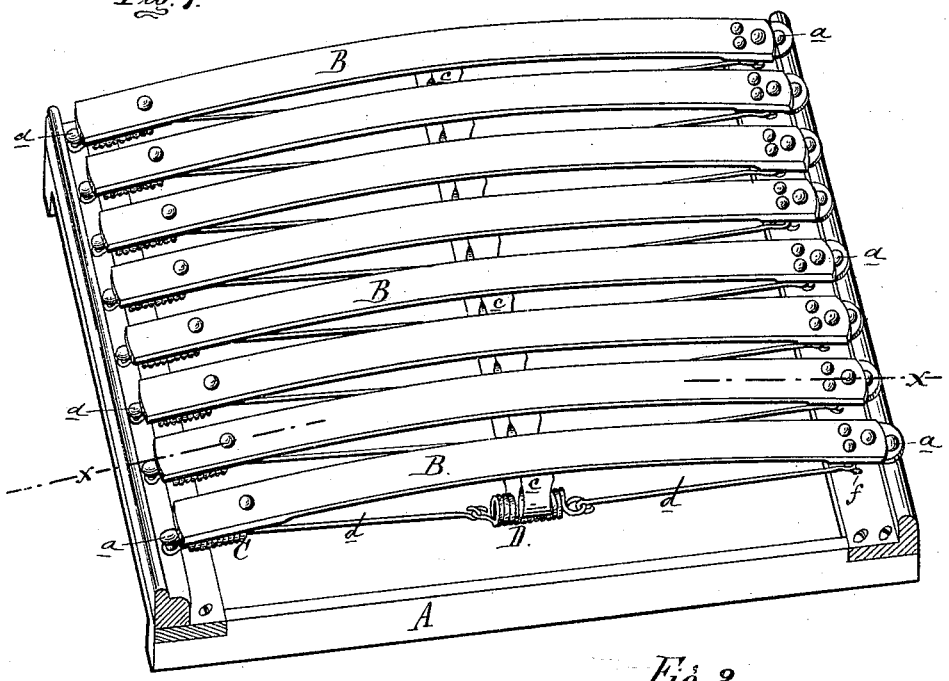


Fig. 2.

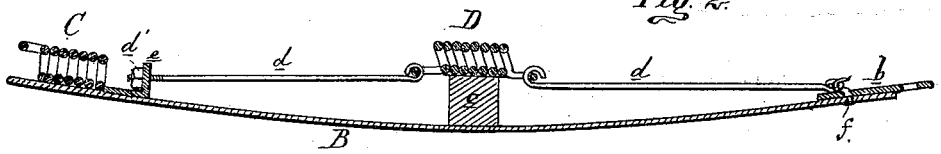
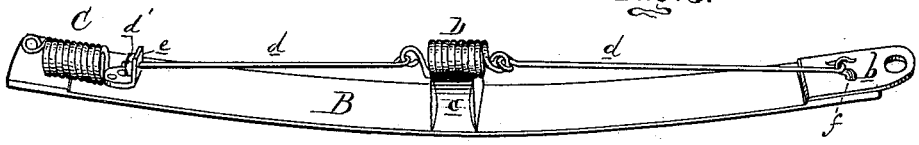


Fig. 3.



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UNITED STATES PATENT OFFICE.

EDWIN BARTON, OF FLINT, MICHIGAN, ASSIGNOR TO HIMSELF AND CHARLES PUTNUM, OF SAME PLACE.

IMPROVEMENT IN SPRING BED-BOTTOMS.

Specification forming part of Letters Patent No. **181,623**, dated August 29, 1876; application filed February 9, 1876.

To all whom it may concern:

Be it known that I, EDWIN BARTON, of Flint, in the county of Genesee and State of Michigan, have invented an Improvement in Spring Bed-Bottoms, of which the following is a specification:

The nature of my invention relates to an improvement in spring bed-bottoms of the longitudinal wooden-slat variety, and has for its object to enable the use of a thinner and more elastic slat, which is trussed below by an elastic cord; the invention consisting in the peculiar construction of the slat, as more fully hereinafter set forth.

Figure 1 is a perspective view of the bed-bottom. Fig. 2 is a longitudinal section at *x x*. Fig. 3 is a bottom perspective view of a slat.

In the drawing, A represents a frame adapted to fit into a bedstead, with an elevated rail at each end, each rail carrying a row of studs, *a*. B are the slats, all of which are made very thin and flexible, except at the extremities, to one of which is secured a metal clip, *b*, to engage with a stud, *a*, and under the other end is secured a spiral spring, C, with a loop at its outer end to engage with the opposite stud *a*. *c* is a truss-block under the middle of each slat, hollowed at the bottom to form a saddle for a spiral spring, D, connected at one end by a wire link, *d*, with a hook, *f*, under one end of the slat, and by a similar link to a flanged clip, *e*, under the slat, near the spring C. The end of the link is screw-threaded, and, after passing through the clip, receives a nut, *d'*, by means of which the tension of the spring D may be adjusted, so as to give the slat the required stiffness and a corresponding upward curvature.

If desired, the frame A may be dispensed with, and the end rails thereof may be secured directly to the head and foot boards of the bedstead.

Upon a load being imposed upon the bed, the stress is upon the slat and the spring D until the slat is flexed below the horizontal plane, when the spring C will be put under tension, thereby making a very elastic bed, that will conform to the outline of the occupant.

What I claim as my invention is—

The slat B, provided with the clip *b*, truss-block *c*, springs C D, links *d d*, clip *e*, and hook *f*, in combination with the studs *a*, substantially as and for the purpose set forth.

EDWIN BARTON.

Witnesses:

H. S. SPRAGUE,

CHARLES J. HUNT.