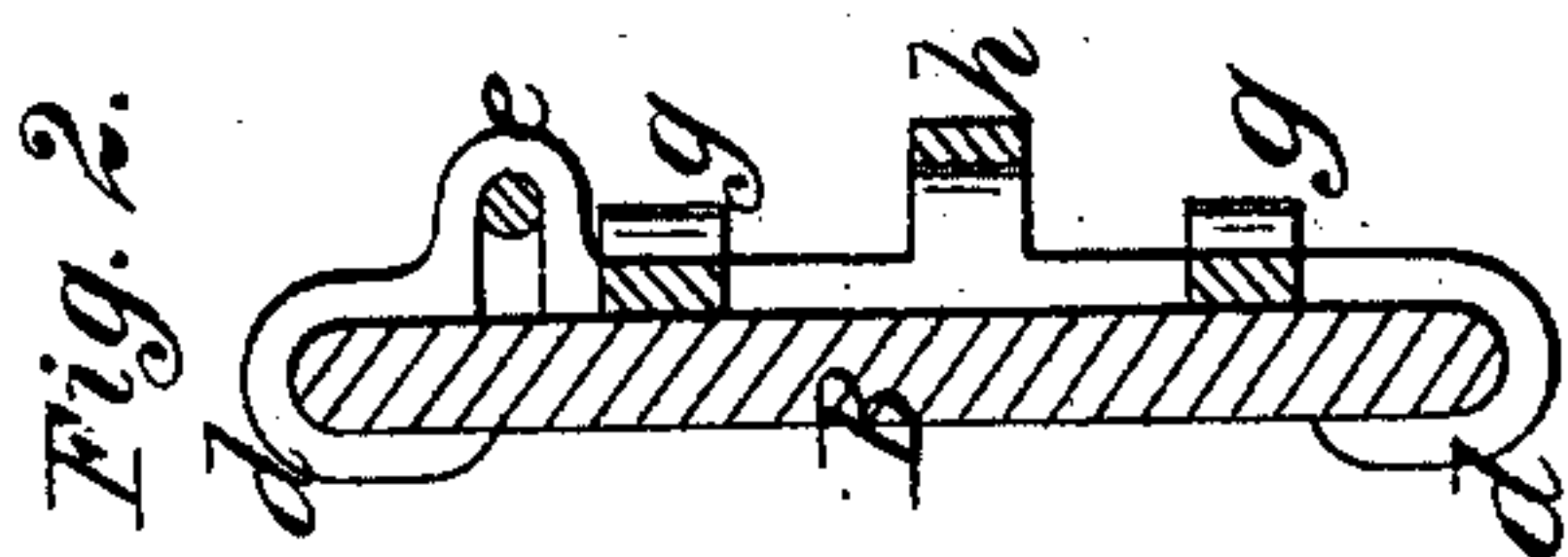
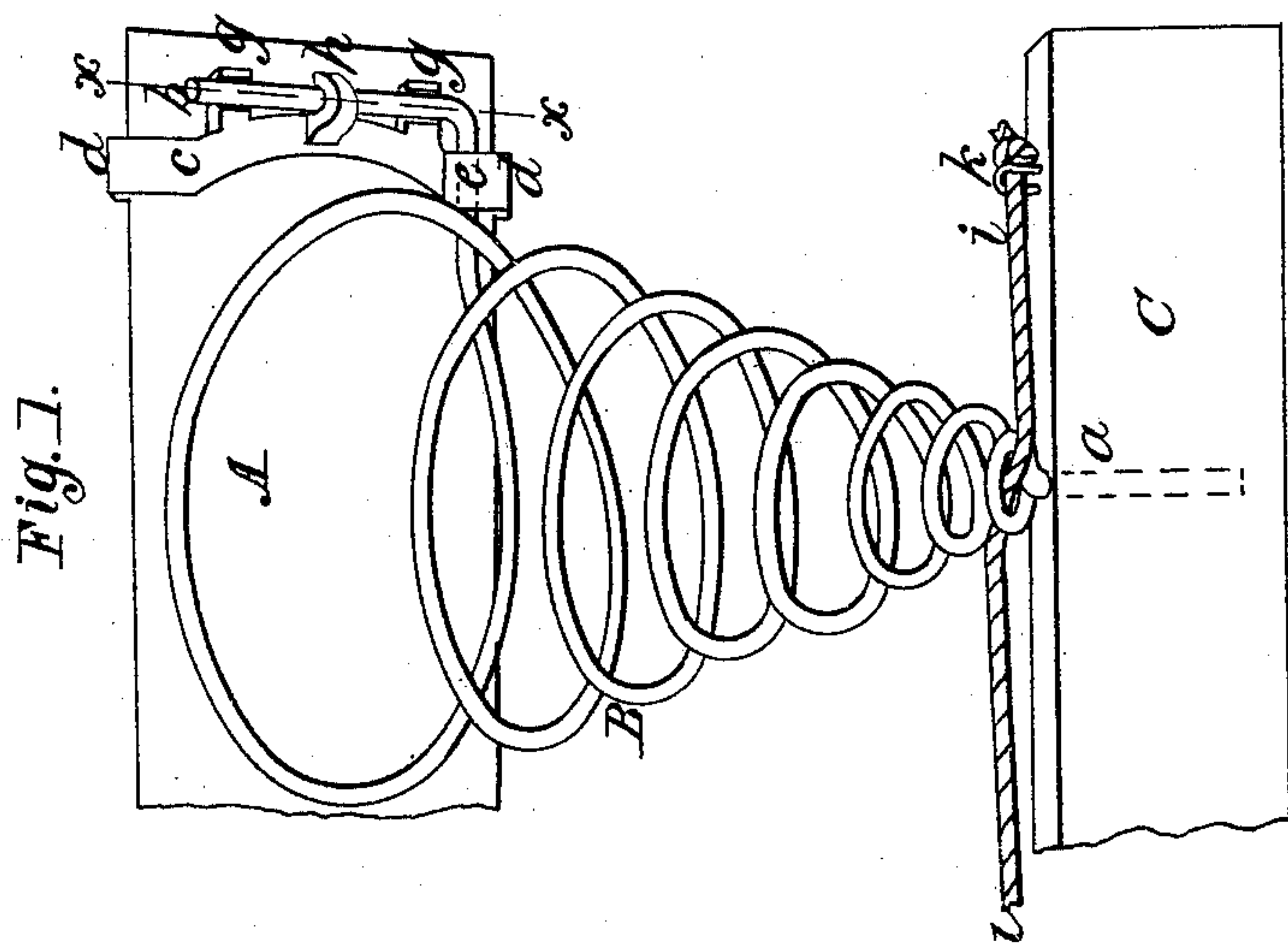


J. Manuel,

Bed-Spring Fastening.

N^o 62,653.

Patented Mar 5, 1867.



Witnesses:

Thos. Tusche
Wm. Spewin

Inventor:

J. Manuel
*Per *Wm. Spewin**
Attorneys

United States Patent Office.

DAVID MANUEL, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO HIMSELF AND
WILLARD MANUEL, OF SAME PLACE.

Letters Patent No. 62,653, dated March 5, 1867.

IMPROVED BED-SPRING FASTENING.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, D. MANUEL, of Boston, in the county of Suffolk, and State of Massachusetts, have invented a new and useful Improvement in Bed-Spring Fastening; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view of my improved bed-spring fastening.

Figure 2 is a transverse section in the line *x x*, fig. 1.

Similar letters of reference indicate like parts.

This invention relates to an improved device for securing the lower ends of bed-springs to the frame bars in such manner that the springs will keep their vertical position, and the whole frame may be raised without deranging or moving the springs.

A represents a slat of a bedstead, and B an inverted spiral spring, of a conical form, with the base bearing against the slat, and a straight lower end of the wire at the apex *a* inserted in a hole through the upper side of a frame bar, C. The arrangement for fastening the base of the spring B under the slat A, so that the base shall rest square and firmly against it and preserve a vertical position, consists in attaching the upper end of the wire *b* to a metal cross-bar holder, *c*, which lies flat on the lower side and clasps the opposite edges of the slat, as shown in fig. 2, on their upper side. The cross-bar *c* is preferably made of strong white metal to render it incorrosive, cast to fit the slats, with hooks, *d d*, at the ends, which turn over and clasp around the edges of the slats. On one side, near the end, is a bridge or eye, *e*, through which is passed the upper wire end *b*, which is bent in a line with a slat to the outside of the eye *e*, at which point the wire is again bent at right angles to lie in and be held firmly by two hooks, *g g*, on the outer ends of the bar *c*, which hooks, *g g*, turn downward so that the wire *b* lies close against them, while the wire at the same time lies close upon a middle hook, *h*, which turns upward, as shown in fig. 1. The wire end *b* of each spring is inserted in this manner in the holder *c*, which is then slipped on the slat A; and any required number of springs are slipped upon the same slat in the same manner to be held firmly to it, as described. In order to secure the lower ends or apex of the springs to the frame bar C, a cord, *i i*, is attached to the upper side of the bar by staples, *k k*, or otherwise, at the ends of the bar and such intermediate points as may be desired. The cord *i i* is passed over one side of the last coil of the spring B, and under it on the opposite side, in such manner that the spring is held in place close upon the bar C, and the wire end *a* cannot slip out of the hole in the bar when the spring frame is raised or handled; or the cord may be passed between the two last coils at the apex of the spring B.

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

The cross-bar holder *c*, consisting of the hooks *d d*, eye or bridge *e*, hooks *g g* and *h*, constructed as described, for the purpose of securing the base of the spiral wire bed-spring B to the slat A, as herein set forth.

DAVID MANUEL.

Witnesses:

D. C. LINSKOTT,

B. J. GERRISH