

L. Hull,

Bed Bottom.

No. 101,267.

Patented Mar. 29, 1870.

Fig. 1

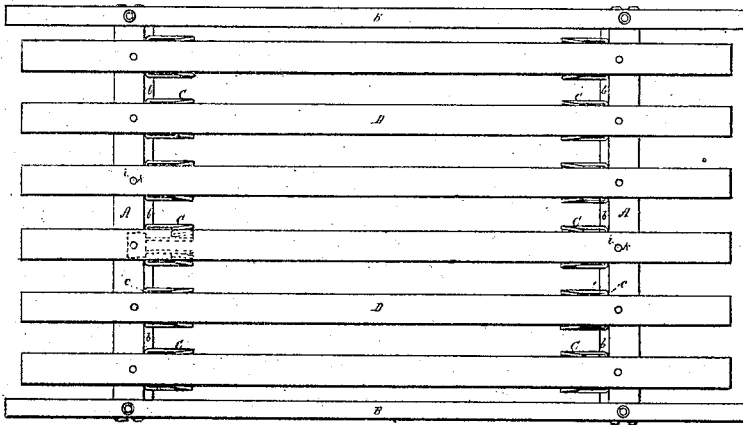


Fig. 2

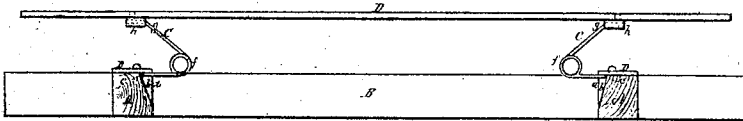


Fig. 4

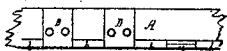


Fig. 3

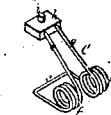


Fig. 5

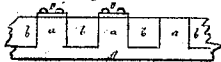
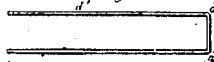


Fig. 6



Witnesses
L. N. Phipps
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by his attorney
R. W. Wood

United States Patent Office.

LIVERUS HULL, OF CHARLESTOWN, ASSIGNOR TO TUCKER MANUFACTURING COMPANY, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 101,267, dated March 29, 1870.

IMPROVED SPRING-BED.

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

To all persons to whom these presents may come:

Be it known that I, LIVERUS HULL, of Charlestown, of the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Spring-Beds or Bed-Foundations; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 denotes a top view;

Figure 2, a longitudinal section of the spring-bed.

Figure 3 is a perspective view of one of its springs.

Figure 4 is a top view of a part of one of the spring support bars, A A; and

Figure 5 is an inner side elevation of it.

In the drawings—

A A denote two spring support-bars arranged parallel to each other, at a suitable distance apart, and tenoned into two parallel side bars B B, such bars constituting a frame.

Each of the bars A A is formed with a series of abutments, *a a*, extended from its inner side, there being between each abutment and that next to it a wedge-shaped recess, *b*.

Each abutment on its top is channeled or grooved lengthwise across such, to receive the middle or hinge part *c* of one of the compensation springs, C. Such part of the spring is to be placed in such groove and kept in place by a cap plate, D, extending over the part *c*, and bolted to the bar A.

Each of the springs consists of a wire bent twice at a right angle, near its middle, viz, at *d d*, as shown in Figure 6, after which each portion or leg *d' e* is bent or turned, at or near its middle, around a cylinder, so as to have one or more helical coils introduced into, as shown at *f*, in the drawings.

Next the two ends or legs of the spring or parts *g* are to be inserted, and fixed in a saddle or block, *h*,

provided with a pivot or stud, *i*, extended upward from it.

A series of the springs C is applied to each of the bars A A, in manner as above described, each spring being extended beyond the ends of its supporting abutment, in order that the legs of the spring may have proper vertical play, without interruption from the abutment.

A series of slats, D D, is supported by the several springs or their saddle-blocks and the studs thereof, each slat being made to extend over one spring of each of the bars A A, and to receive the stud of such spring into one of two holes, K K, made in the slat, the whole being as represented in the drawings.

Each spring, while being depressed by a weight on the slat, will operate to cause the saddle-block to descend nearly, if not entirely in a vertical line, there being a double action on each leg of the spring, by which the spring is rendered very efficient.

I claim—

The combination and arrangement of the pivoted or pivotal saddle-block, *h*, with a spring, C, made as described.

Also, the combination and arrangement of the two grooved abutments, *a a*, and the cap-plates D D thereof, with the bars A A and the springs C C, constructed and combined with pivotal saddle-blocks *h h*, and applied to each slat D, as set forth.

Also, the improved bed-foundation, as composed of the springs C, made and arranged as described, the separate pivotal saddle-blocks *h*, the slats D, and the frame-bars A A B B, provided with the grooved abutments and cap-plates to the transverse bars, as set forth.

Witnesses:

R. H. EDDY,
J. R. SNOW.

LIVERUS HULL.