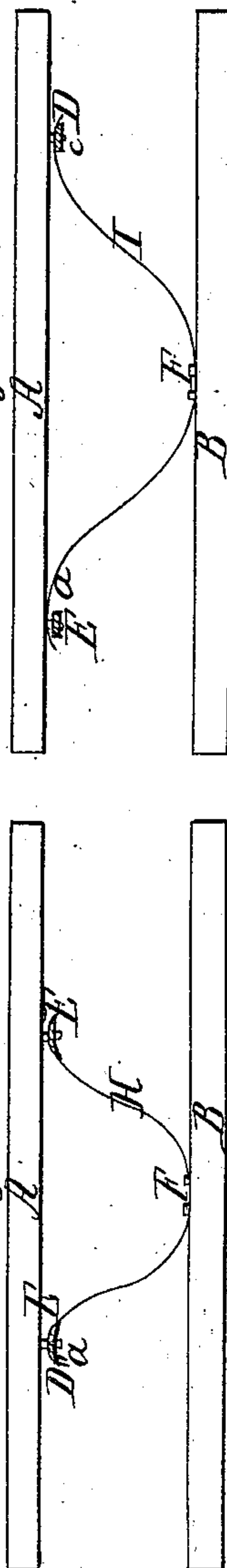


Patented Apr. 14, 1868.



Inventor;
Bercher Hitchcock

United States Patent Office.

BEECHER HITCHCOCK, OF WAUKEGAN, ILLINOIS.

Letters Patent No. 76,633, dated April 14, 1868.

IMPROVED BED-BOTTOM.

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, BEECHER HITCHCOCK, of Waukegan, in the county of Lake, in the State of Illinois, have invented an Improved Bed-Bottom; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification, in which—

Figure 1 is a longitudinal elevation of my bed-bottom.

Figure 2, a top view of the same, with an end rail broken away to show the width of the springs.

The nature of my invention consists in the use of steel springs, having different lengths and curves, for the support of the top frame of a common spring-bed bottom, and in arranging them so as that the head of the bed will sustain a greater weight than the foot, whereby a person's head may rest at the proper height without extra bolsters, notwithstanding the preponderance of the upper part of the body.

In order to give a correct understanding of my invention, I have marked corresponding parts with similar letters, and will now give a detailed description.

A represents the upper and B the lower frame of the common spring-bed bottom. C G is one of the springs used for the support of the sides of the frame A, as seen at fig. 1, and is secured to frame B by means of bolts F F, and to frame A by staples E E. This spring is made of cast steel, and with the part C, supporting the foot of the bottom, longer than the part G, supporting the head, in order that the latter may always remain the highest when in use, and also made with the ends D D curved downward, to provide suitable surfaces for them to slide through the staples E E, and against the under side of frame A, when it is made to have a vertical reciprocating motion.

The spring H is used for the head of the bed, and is made and secured the same as spring C G, only its ends from the bolts F F are of the same length, in order that the ends of the bottom may be kept as near parallel as possible.

The spring I, supporting the foot of the bed, is made about one-third longer than the spring at the head, by which means the frame A will incline toward the foot when the weight is equal on all parts of the top, but will be about level when a person lies thereon.

The staples E E are covered with leather, *a a*, in order to prevent any noise, which would otherwise occur if the curved ends D D were permitted to strike against bare metal.

It will be seen from this description that the springs not only answer the purpose herein described, but will also prevent the frame A from having a longitudinal and lateral motion, and, further, provide a simple, cheap, and convenient means for supporting the upper frame.

I do not claim the application of semi-elliptical spring to bed-bottoms, but

What I do claim, and desire to secure by Letters Patent, is—

The arrangement of a long spring, I, for the foot of frames A B, and a short spring, H, for their heads, in combination with side springs, having long arms, C; and short arms, G, substantially as and for the purpose set forth.

BEECHER HITCHCOCK.

Witnesses:

G. L. CHAPIN,

A. HAYWARD.