(No Model.)

D. BENNETT.

BED BOTTOM.

No. 301,042. Patented June 24, 1884.

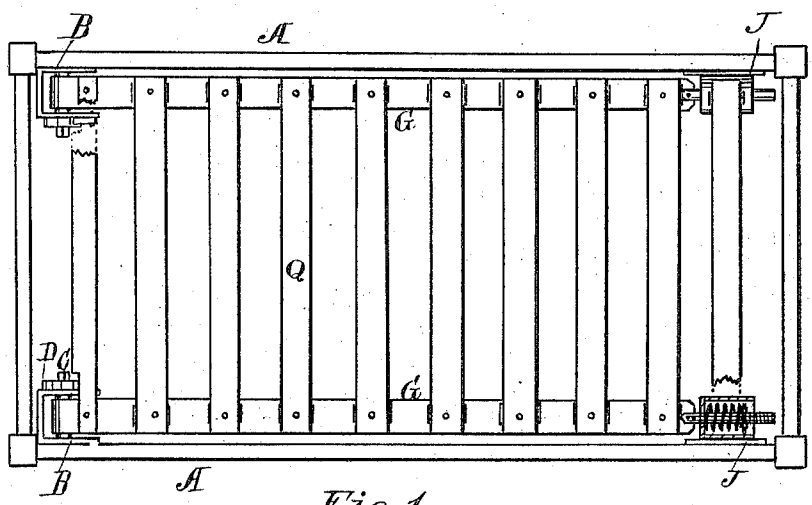


Fig. 1.

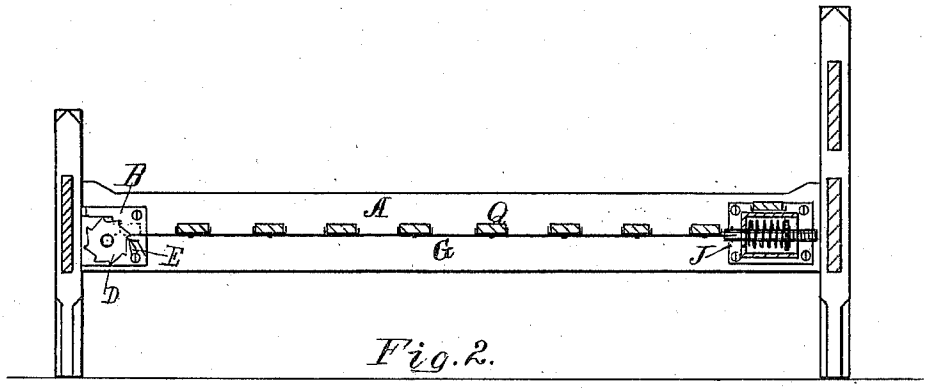


Fig. 2.

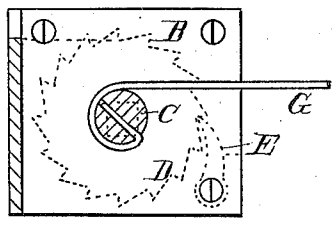


Fig. 3.

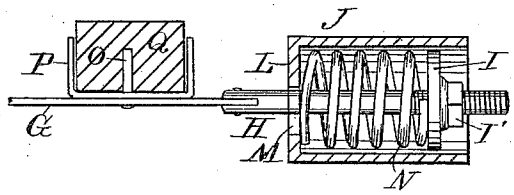


Fig. 4.

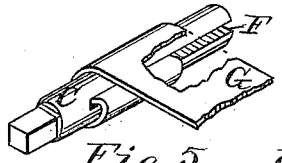


Fig. 5.

Witnesses:
Robert Kirk
D. C. Groff.

Inventor.
Daniel Bennett
by D. L. Gerber
Atty.

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

DANIEL BENNETT, OF LOGAN, OHIO.

BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 301,042, dated June 24, 1884.

Application filed November 13, 1882. Renewed September 15, 1883. (No model.)

To all whom it may concern:

Be it known that I, DANIEL BENNETT, of Logan, in the county of Hocking and State of Ohio, have invented a new and useful Improvement in Bed-Bottoms, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a top view of my improved bed-bottom. Fig. 2 is a longitudinal section of the same. Fig. 3 is an enlarged side view of the ratchet-wheel which gives tension to the slat-chord. Fig. 4 is a side view, in section, of the spring and housing which gives elasticity to the chord and slats; and Fig. 5, a perspective view of the chord, showing its attachment to the ratchet-wheel shaft.

The object of the present invention is to provide a durable and effective bed-bottom; and it consists in having a metallic strip secured to each side board of the bedstead on the inside. Each strip has one end wound around a small shaft which carries a ratchet-wheel and pawl secured on the foot end of the side board, and the opposite end of the strip terminates in a bar or rod having a screw-thread. This rod enters a suitable housing, within which is a strong coiled spring. The bar or rod on the end of the chord is provided with a head, which rests against the coiled spring. The slats are then placed on the chords, and any desired tension given to the slat-chords, all of which will now be set forth in detail.

In the accompanying drawings, A represents the side boards of a bed, having at the ends the ordinary fastening devices for securing them to the head-boards. At one end of the side board within, preferably at the foot, is a bracket, B, designed to be screwed or bolted to the foot-board. The bracket may be of any desired size or shape, so that a small arbor or roller, C, may be journaled therein, providing space between the two bearing-points sufficient to allow the strip G to enter. The arbor C has its inner projecting end square, so that a key may be used thereon.

D represents a ratchet-wheel on the arbor, and E a pawl hinged to the bracket and engaging with the ratchet-wheel. The arbor is provided with a groove or slot, F, into which the end of the metallic chord or strip is placed.

The strip G extends nearly to the head-board of the bed, and has joined thereto a bar, H, screw-threaded at the end. On this rod is screwed a head, I.

At the head end of the side board is a plate or bracket, J, which carries a cylindrical housing, K. This housing has a head, L, at the end facing the foot-board, provided with an opening, M, to admit the rod H. The opposite end of the housing is open. A coiled spring, N, of proper size, is placed with the housing, so that it is interposed between the cylinder-head L and chord-head I.

Each side board is similarly equipped, and when it is desired to give more tension to the chord G a key is used on the arbor C; or a wrench is employed on the head I or on the follower-nut I'. The chords G are provided at proper intervals with pins O and guard-plates P, to receive the ends of the slats Q, which are laid transversely across the bedstead onto the chords.

The action of a bottom thus constructed will be readily understood. As the weight depresses the chords, the elasticity of the coiled springs N is brought into play, producing a uniform motion along the line of the chords, and when either of the springs becomes useless it can be readily replaced at small cost without damaging the entire bottom.

I am aware that it is not new to tighten up a bed-bottom by turning one or all of the side pieces to which the webbing or slat supports are connected, and that it is not new, broadly, to use springs in connection with longitudinal supporting-strips.

Having described my invention, what I claim is—

1. The combination, with a bed-frame, of metallic longitudinal strips or chords G, provided with slats, brackets having each a roller provided with ratchet and pawl attached to one end of the frame, and brackets each provided with a spring connected to the said chords or strips at the other end of the frame, substantially as described.

2. The combination, with a bedstead-frame, of the brackets B, the arbors C, the ratchet-wheels D, the pawls E, the brackets J, the housings K, the springs N, the strips or chords G, and the rods H, provided with a head, I, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand.

DANIEL BENNETT.

Witnesses:

LEVI J. BURGESS,

SEWELL G. BENNETT.