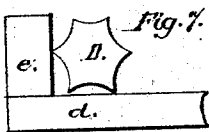
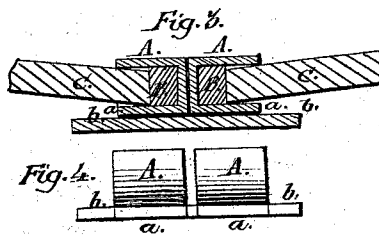
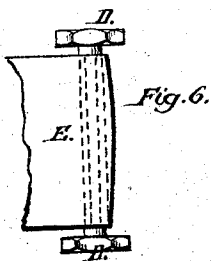
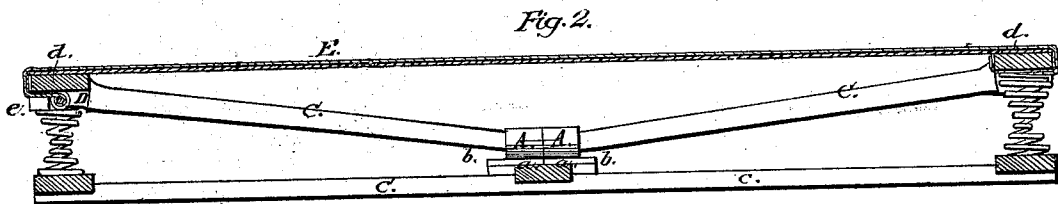
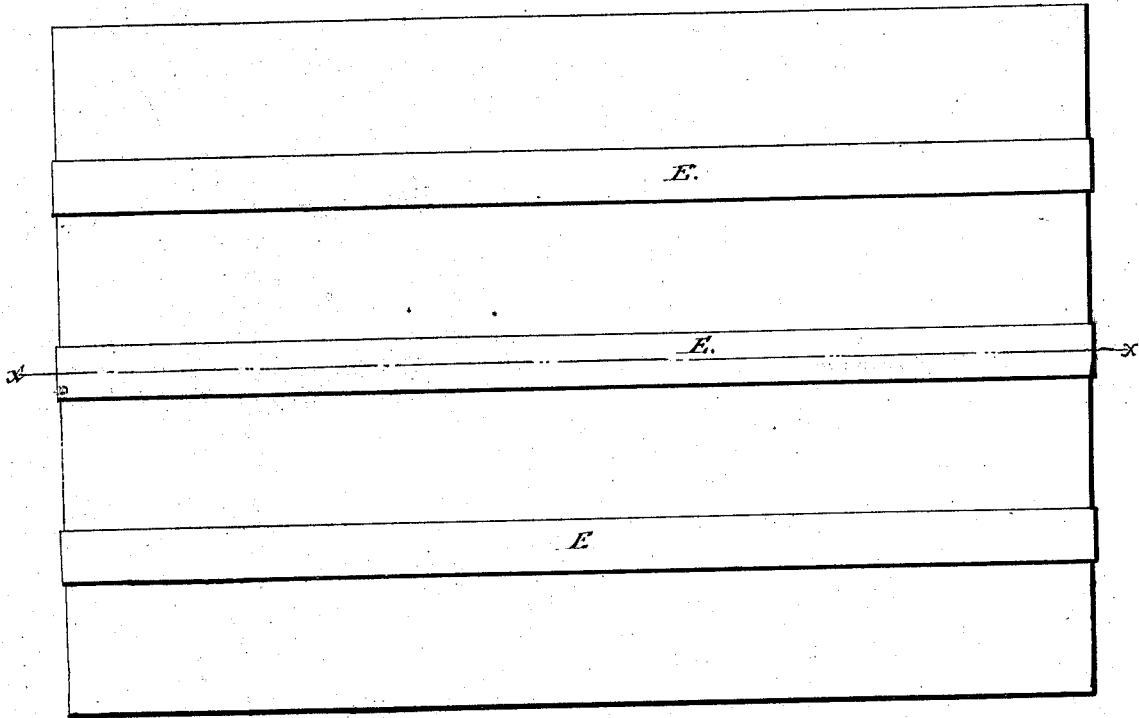


# Boar & Bell

## Bed Bottom.

N<sup>o</sup> 89,912.

Patented May 11, 1869.



WITNESSES:  
*C. H. Young*  
*W. Burris.*

INVENTOR:  
*Boar & Bell*  
 by *G. B. Fowler*  
 Attorney

# United States Patent Office.

ALONZO T. BOON AND JAMES H. BELL, OF GALESBURG, ILLINOIS.

Letters Patent No. 89,912, dated May 11, 1869.

## 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 we, ALONZO T. BOON and JAMES H. BELL, of the city of Galesburg, in the county of Knox, and State of Illinois, have invented a new and useful Improvement in Bed-Bottoms; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a top view.

Figure 2 is a longitudinal section as indicated by the line *xy* of fig. 1.

Figures 3, 4, 5, 6, and 7, are views in detail of the bed-bottom.

Like letters in the figures of the drawings, indicate like parts.

The nature of our invention consists of two metallic boxes, of a cylindrical or other form, closed at one of their ends, and provided therein with rubber, and secured centrally on each side of the bed in a suitable manner, the said boxes having two arms so arranged with the rubber therein, and the ends of the bed-bottom as that a more substantial and durable spring may be obtained to the bed-bottom.

Our invention consists, further, of a spool so constructed and arranged, with respect to the end of the bed-bottom, as that when the bed-bottom is made of cloth, and webbing is used in connection therewith, the spool may be made to hold the webbing, and tighten the same when required.

The construction and operation of our invention are described as follows:

A A are the boxes made with plates *a a*, the edges of which, on the sides thereof, are turned down inwardly to form a receptacle for the plate *b*, which is made to fit sufficiently loose therein, as to admit of the boxes sliding freely thereon.

This plate is attached by screws or bolts to the centre of the slide *c* of the supporting frame of the bed-bottom.

B B are pieces of rubber or gutta-percha inserted within the boxes against their closed ends.

C C are the arms, which are arranged on the side of the bed at a suitable inclination from the boxes to support the bed-bottom, one end of each arm being placed within the boxes against the rubber, and the

ends opposite attached to the under sides of the end rails *d d* of the bed-bottom.

When arranging the arms in their proper places, or if at any time they should not press tight enough upon the rubber to give the required spring to the bed-bottom, the boxes can be moved apart from each other on the plate by a wedge or other device being slipped in between them, which wedge will press the rubber upon the ends of the arms, and hold the boxes at the point they have been moved.

As will be seen from this description of our invention, the weight of a person on the bed-bottom will press the arms upon the rubber in the boxes which will give an easy and uniform spring to the bed-bottom.

The bed-bottom may be given an inclined position from either end thereof, as may be desired, by the application of a strap and buckle at either corner of the upper and lower frame of the bed-bottom.

D is the spool, the ends of which are of a hexagonal form, each side being curved so as to present sharp corners or points to the touch of the hand. Where cloth is used to form the bed-bottom, and webbing to strengthen the same, the webbing E is attached to an end of the bed-bottom, and stretched across to the other end, when it is carried under the cross-piece or rail *d*, and made fast to the spool, which is so adjusted as to bring its points or corners firmly in contact with the under side of the rail *d*, and the piece *e* attached to the outer edge of the rail, on the under side thereof, in which manner the spool will hold the webbing, and if at any time it should become loose, it can be tightened by taking a turn on it with the spool.

Having thus fully described our invention,

What we claim therein as new, and desire to secure by Letters Patent, is—

1. The boxes A A, provided with rubber in combination with arms C C, substantially as and for the purpose set forth.

2. The spool D, as arranged and operated substantially in the manner and for the purpose as described.

ALONZO T. BOON,  
JAMES H. BELL.

Witnesses:

H. W. CARPENTER,  
ED. O. BOON.