

F. B. Mattson.

Bed Bottom.

N^o 87,184

Patented Feb. 23, 1869.

Fig. 1.

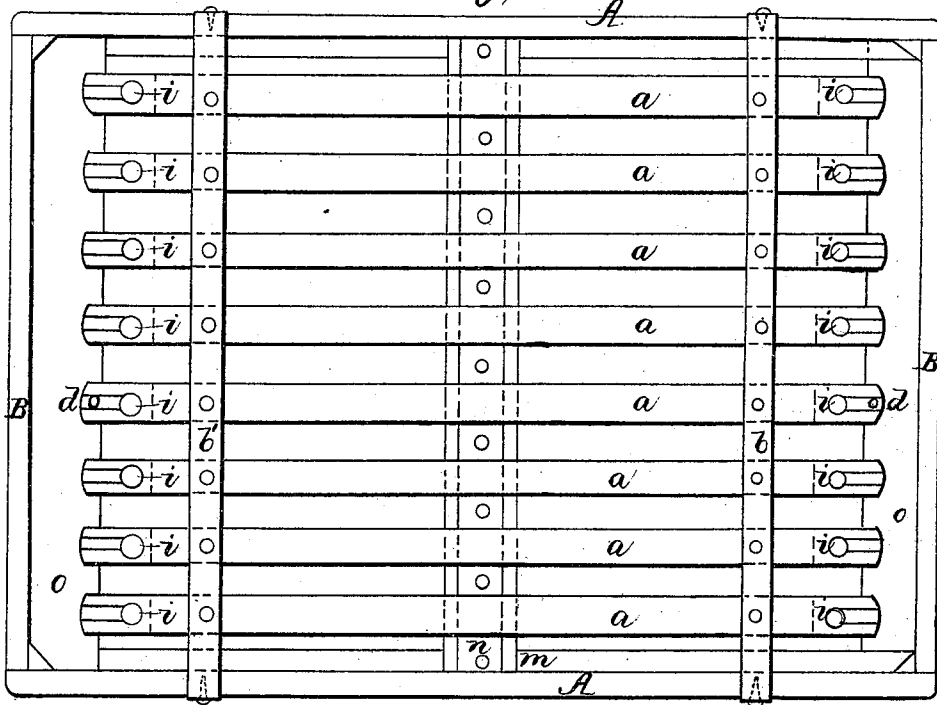


Fig. 2.

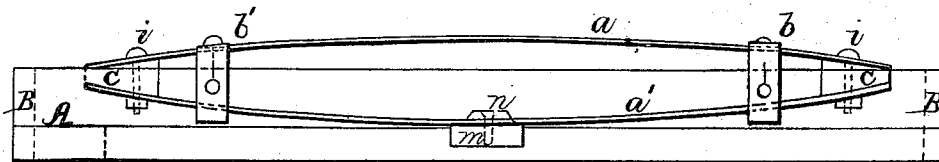


Fig. 3.



Witnesses;

W. M. Burson
Silas G. Tyler.

Fig. 4.



Inventor;

Francis B. Mattson



FRANCIS B. MATTSON, OF ROCKFORD, ILLINOIS.

Letters Patent No. 87,184, dated February 23, 1869.

IMPROVED SPRING-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, FRANCIS B. MATTSON, of the city of Rockford, in the county of Winnebago, and State of Illinois, have invented a new and useful Spring-Bed Bottom; and I 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 annexed drawing, forming part of this specification, and to the letters of reference marked thereon.

In the drawing—

Figure 1 is a top view of the complete bottom.

Figure 2 is the same, viewed on its edge.

Figures 3 and 4 show the wedge-piece.

My invention has reference to the construction of a spring-bed bottom, in which the elasticity is entirely derived from pieces of wood, and consists of certain combinations of devices hereinafter to be set forth.

In the drawing, *a a'* are slats, or strips of lumber, secured by suitable bolts, *i i*, to the wedge-shaped pieces *c c*, which are so formed as to give the pieces *a a'* an elliptical curve, of any form desired.

A sufficient number of these springs is secured to the cross-bar *m*, which may then be placed in the frame *A B*, or may be placed in the bedstead, properly fitted for it, without the frame just mentioned.

The elliptical springs *a a'*, constructed as described, and secured to the cross-bar *m*, may be stayed by one or more cross-straps, *b b'*.

In this invention, particular attention is asked to the following points:

First, the object of this invention is to furnish a

cheap and efficient spring-bed bottom, which shall dispense with the usual coiled springs, rubber elastic, &c. To accomplish this, we fasten the slats *a a'* to the wedge-shaped blocks *c c*, which give them an elliptical form. A sufficient number of these, secured to the cross-bar *m*, form the bed-bottom proper, though the cross-bars *o o*, either secured to the bedstead or to a frame supporting the springs, are needed to keep the ends of the springs from settling too far downward.

Second, to provide against the tendency of the slats to "set," or remain permanently bent downward by the superincumbent weight, we slot the ends of the slats for the bolts, so that, by simply loosening the bolts, and the stay-straps *b b'*, the slats can be turned over, and so made to answer the purpose of a spring continually.

Third, the wedge-shaped piece *c* may have a pin, *d*, in it, in addition to the bolt *i*, which shall enter the slot of the slat *a*, and thus keep the block from turning sidewise.

What I claim as my invention, and desire to secure by Letters Patent, is—

The construction and arrangement of the slats *a a'*, with the ends slotted as described, the wedge-pieces *c c*, cross-bars *m o o*, and stay *b*, the whole combined to form a spring-bed bottom, substantially as described.

FRANCIS B. MATTSON.

Witnesses:

W. W. BURSON,
SILAS G. TYLER.