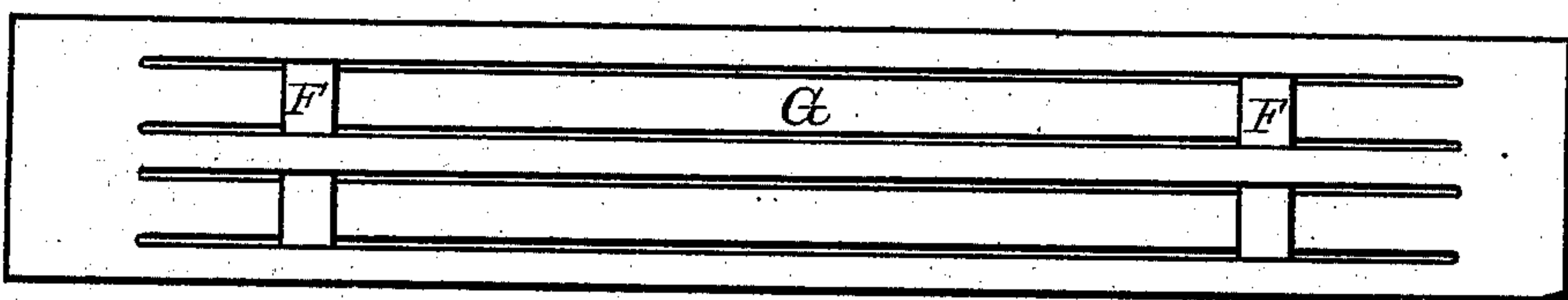
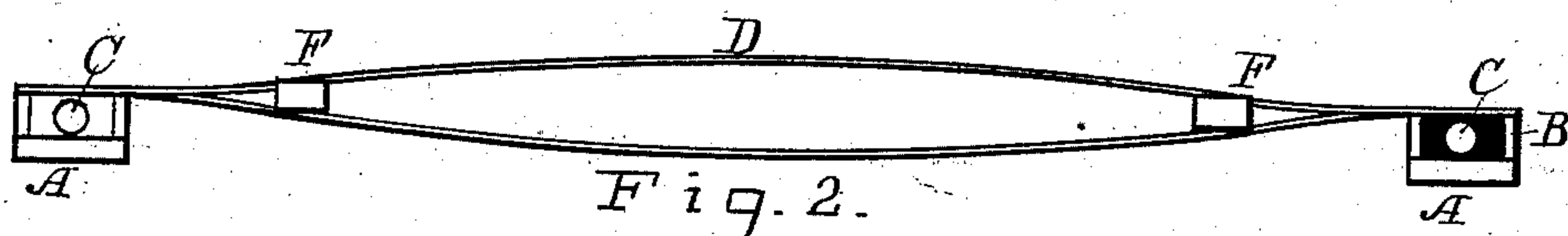
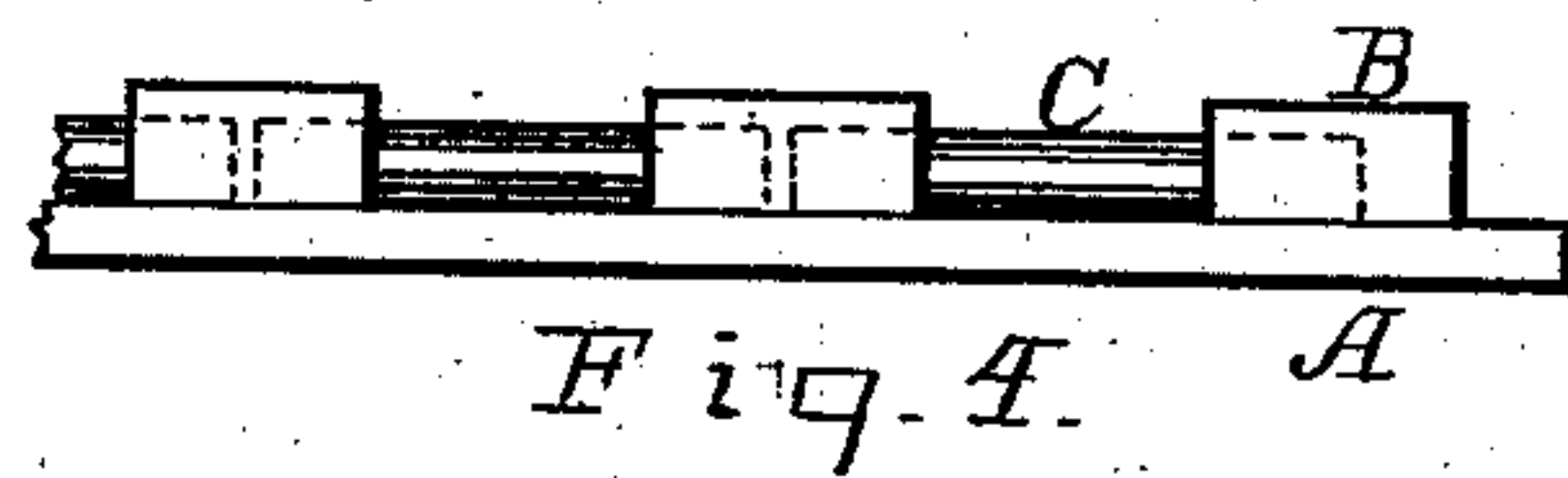
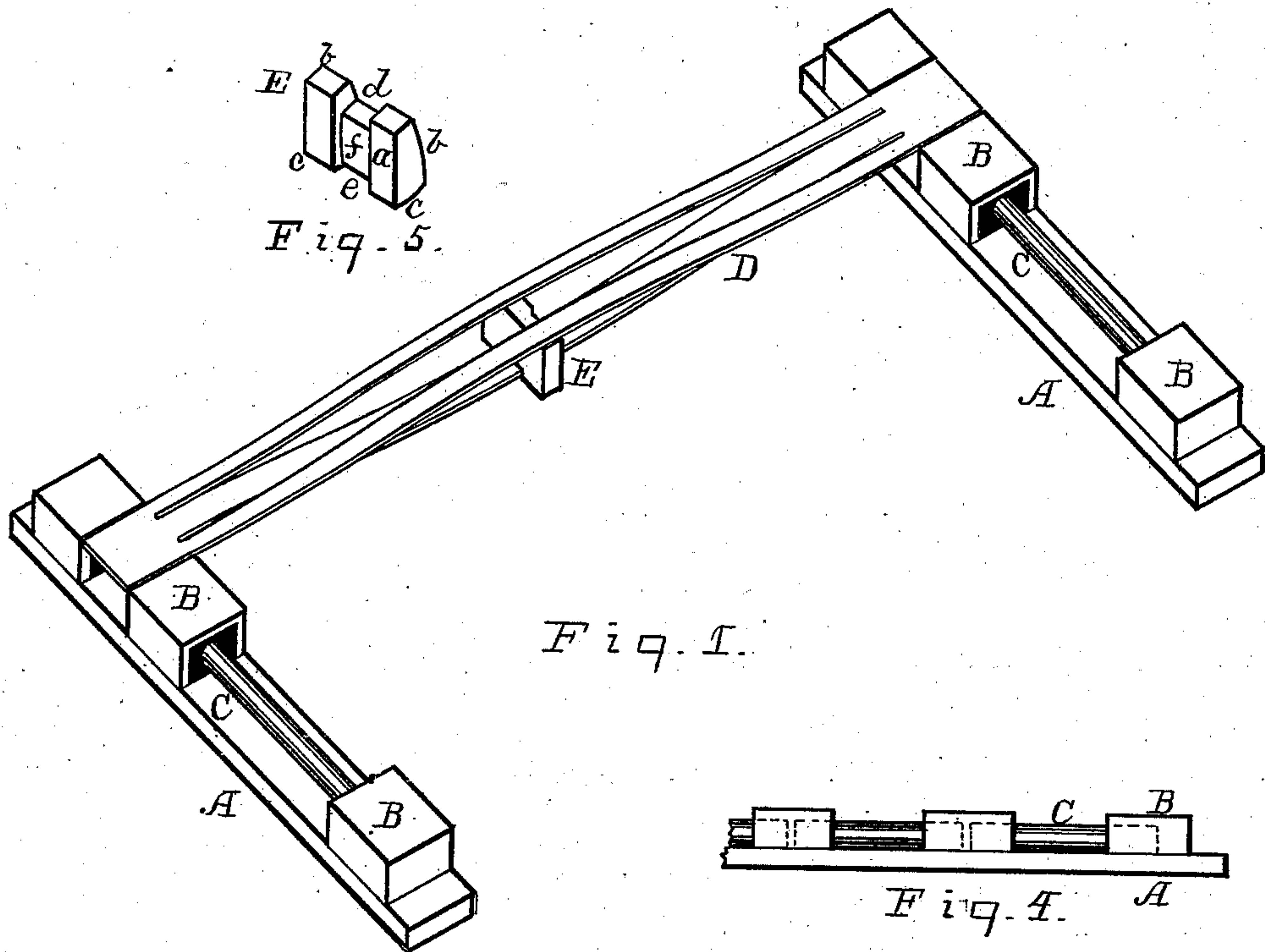


L. E. RANSOM.  
Bed-Bottoms.

No. 224,846.

Patented Feb. 24, 1880.



Witnesses:  
D. Q. Christian  
John A. Hughes

Inventor:  
Loomis E. Ransom  
by J. D. Perbe  
Atty.



# UNITED STATES PATENT OFFICE.

LOOMIS E. RANSOM, OF BRYAN, OHIO, ASSIGNOR TO KENT FURNITURE MANUFACTURING COMPANY, OF GRAND RAPIDS, MICHIGAN.

## BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 224,846, dated February 24, 1880.

Application filed September 16, 1879.

*To all whom it may concern:*

Be it known that I, LOOMIS E. RANSOM, of Bryan, in the county of Williams 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 an isometric view. Fig. 2 is a side view of the slat. Fig. 3 is a top view; Fig. 4, an end view of slat-rest; and Fig. 5 is a view of the block of a portion of the slat-support.

The object of my invention is to provide an improved bed-bottom, whereby the flexibility of the same can be easily regulated, and also to provide against any noise in the use of the bed provided with my slats, the whole being simple in construction and durable in operation, as will hereinafter be more fully set forth.

In the accompanying drawings, A A represent slats, which are placed crosswise as supports, one at the head and the other at the foot of the bedstead. Upon these cross-slats I place a number of boxings or housings, B, at intervals, which serve as spaces between the slats. Rollers C are placed lengthwise on these slats, extending under the housing B, and made in separate parts, so that when the different slats are placed on the rollers they will operate independently of each other.

The rollers are made smaller in diameter than the hollowed portion of the housing B, the object being to allow room for a free and easy movement of the slat longitudinally.

By this construction the movements of the slats are, first, independent of each other, and, second, do not creak or produce any noise by pressure on the springs.

In Fig. 1 only a portion of the end cross-slats or supports is shown, sufficient to illustrate the bearing portion for a wide and a narrow slat, the object being to show that this construction will admit of any width slat.

The slats, as shown in Figs. 1 and 3, are slitted to form three or more parts, leaving a short portion of each end intact. The alternate strips thus formed are bridged by means of a block, E, as shown in Fig. 1, or by means of two blocks, F, Fig. 2, placed near each end.

An elastic bed can thus be made by moving

the blocks near to the ends, or by placing them closer to each other.

In Fig. 5 I show the form of the block E used for bridging the slats. This block is made wedge-like, having a flat face, *a*, and its opposite side, *b*, slightly rounded. A gain, *d*, is cut out centrally across the thinnest edge of the block, and at right angles to this, running across the flat face of the block, is another gain, *e*, connecting with gain *d*. The face of the gain *f* is also rounded.

In use this block can be set up edgewise, as represented in the drawings, or placed on the side. In the former case one slat will be placed in the gain *d* above, and the other slats below on the rounded portions *c c*. When laid flatwise the under slat is placed in the gain *f*, and the two upper slats on the rounded portions *b b*.

I am aware that a bed-bottom having elastic bars with blocks is not new, and I hereby disclaim such as my invention; but I do not know of a block constructed in the manner here shown; neither am I aware that a bed-slat has ever been constructed of wood in one piece, as herein described, nor of the method of suspending the slats as shown. Therefore,

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

1. The wedge-shaped block E, having a flat face, *a*, rounded parts *b c*, and provided with gains *d e*, the latter of which has a rounded face, substantially as and for the purpose specified.

2. A support for bed-slats placed crosswise in a bedstead, and provided with a series of boxings or housings, B, having within said housings the ends of a set of independent rollers, upon which the ends of the bed-slats rest between the housings, substantially as and for the purpose herein set forth.

3. The combination of a slitted and bridged bed-slat, D, with support A, having housing B and rollers C, substantially as herein described and set forth.

LOOMIS E. RANSOM.

Witnesses:

JOHN S. WILLIAMS,  
WILLIAM STAUGH.