

H. A. Cooke,
Bed Bottom,

N^o 51,427.

Patented Dec. 12, 1865.

Fig. 3.

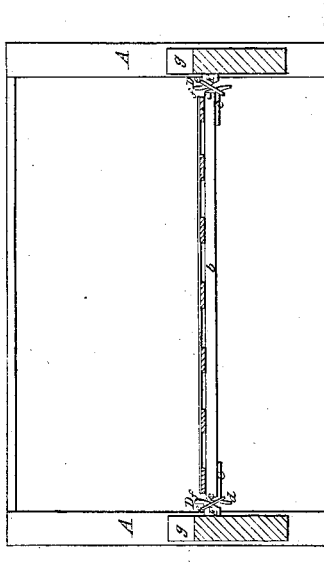


Fig. 4.

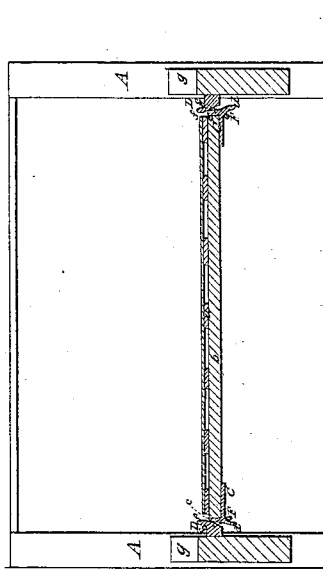


Fig. 1.

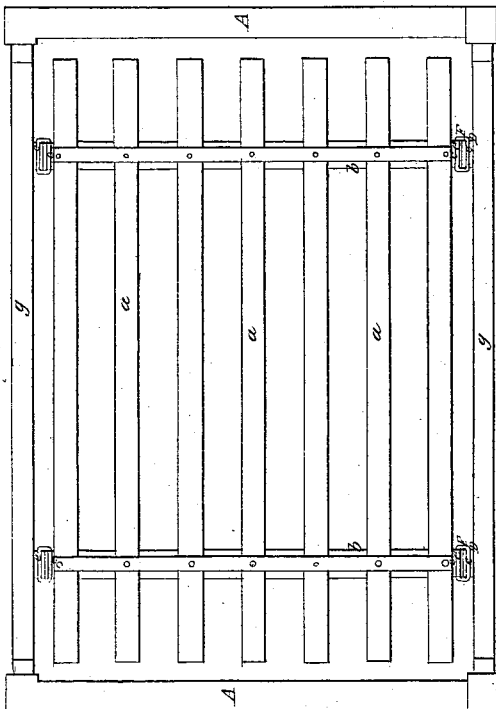
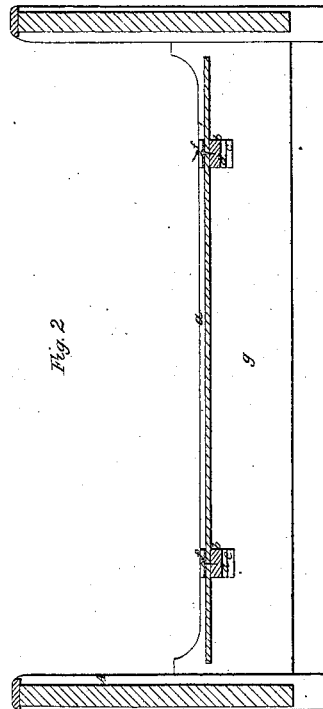


Fig. 2.



Witnesses:
Samuel W. Piper
George H. Chubbuck

Inventor:
Henry A. Cooke
by his attorney
R. H. Cook

UNITED STATES PATENT OFFICE.

HENRY A. COOKE, OF CHARLESTOWN, MASSACHUSETTS.

BED-BOTTOM.

Specification forming part of Letters Patent No. 51,427, dated December 12, 1865.

To all whom it may concern:

Be it known that I, HENRY A. COOKE, of Charlestown, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Bedsteads; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a top view, Fig. 2 a longitudinal section, and Fig. 3 a transverse and central section, of my improved bedstead. Fig. 4 is a cross-section of it, taken through one of the transverse bars of its supporting-frame.

In this bedstead the bed-frame, or "bottom," as it is termed, is composed of a series of long flexible elastic slats, *a a a*, &c., and two transverse bars, *b b*, the said slats being arranged parallel to each other and at equal distances asunder, and on the two bars *b b*, to which they are fastened, the whole being placed within the frame *A* of a bedstead in manner as shown in the drawings.

To each end of each of the transverse bars *b* a metallic supporter, *C*, having the form in vertical section as shown in Fig. 3, is fastened, the said supporter having a projection, *c*, and a cam or incline, *d*, which are arranged with reference to one another and the end of the bar in manner as shown in the said drawings.

Directly over each of the said supporters *C* there is a loop-supporter, *D*, constructed with a notch, *e*, and a cam or inclined surface, *f*, the same being arranged as shown in Fig. 3, and such supporter *D* is fastened to and so as to project from the inner face of one of the side rails, *g g*, of the bedstead-frame.

A ring, *F*, made of vulcanized india-rubber, is placed in the notch *e*, and hangs therefrom and serves as an elastic stirrup to receive the part *C* and to draw the two inclined surfaces or cams *d* and *f* into contact.

While the inclined planes *d f* serve as stops to arrest the movement of the bed-bottom when drawn upward by the springs, they also operate at the same time to centralize it and keep it from swaying laterally while the bed may be in the act of being made up.

By my arrangement the bed-bottom is supported by four springs only, which are so disposed, and the bottom is so made, that there can be no such uncomfortable sagging or sinking of the bottom at its middle or other part, as often takes place when each of the longitudinal slats is supported at its two ends by springs hung from the head and foot rails.

I claim—

1. The combination as well as the arrangement of the cams or inclines *d f*, the supporters *C D*, and their annular springs *F* with the bedstead-frame and the bed-bottom constructed of the longitudinal slats and the transverse bars, arranged together as specified.

2. The combination of the two cross-bars *b b*, their supporters *C D*, and their springs *F* with the series of longitudinal slats, and with the bedstead-frame, arranged as specified.

HENRY A. COOKE.

Witnesses:

R. H. EDDY,
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