

C. MILLER.
Spring Bed-Bottoms.

No. 154,339.

Patented Aug. 25, 1874.

Fig. 1.

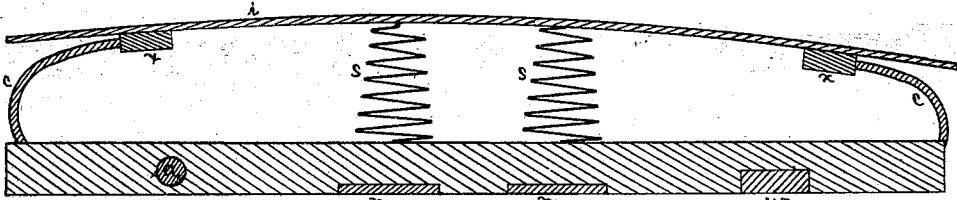


Fig. 2.

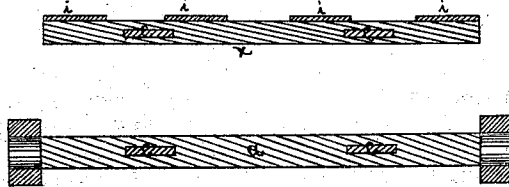
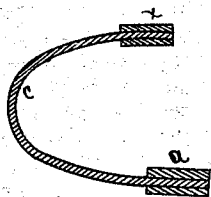


Fig. 3.



Witnesses

W. H. Griffin.

A. H. Stillman

Inventor

Calvin Miller

by Bradford Howland

his Attorney.

UNITED STATES PATENT OFFICE.

CALVIN MILLER, OF SUMMIT COUNTY, OHIO.

IMPROVEMENT IN SPRING BED-BOTTOMS.

Specification forming part of Letters Patent No. **154,339**, dated August 25, 1874; application filed June 13, 1874.

To all whom it may concern:

Be it known that I, CALVIN MILLER, of Summit county, Ohio, have invented certain Improvements in Spring Bed-Bottoms, of which the following is a specification:

The invention is represented in the accompanying drawing.

Figure 1 is a side view of the bed-bottom. Fig. 2 is a vertical cross-section through the roller *a*. Fig. 3 is a section of one of the bent springs *c*, cross-bar *x*, and roller *a*.

The slats *i i i i* are supported near the center by the springs *s s*, which rest on the cross-bars *m m*. Near their ends the slats are supported by the cross-bars *x x*, to which they are attached. The upper ends of the bent springs *c c* are fastened in mortises in the cross-bars *x x*, and support the ends of the slats. The lower ends of the bent springs *c c*, at one end of the bed-bottom, are held in mortises through the cross-bar *w*. At the other end of the bed-bottom the lower ends of the bent springs *c c* are held in mortises through the roller *a*. The springs *s s* being attached directly to the slats without any intervening cross-bar each slat at its center is permitted

to yield to pressure independent of the other slats; but this independent action of each slat is partially counteracted by reason of all the slats being attached near their ends to the cross-bars *x x*. The slats *i i i i* are kept firmly in position by the ends of the bent springs *c c* being fitted in mortises in the cross-bars *x* and *w* at one end of the bed-bottom, and in the cross-bar *x* and roller *a* at the other end. The roller *a* by turning when pressure is applied to the slats permits the free action of the bent springs *c c*.

The object of using the cross-bars *x x* is to prevent the action of each slat from being entirely independent of the other slats, and also to hold each slat firmly in its relative position to the other slats.

I claim as my invention—

The combination of the roller *a*, bent springs *c c c c*, cross-bars *w* and *x x*, slats *i i i i*, and springs *s s*, substantially as and for the purpose herein set forth.

CALVIN MILLER.

Witnesses:

GEO. F. ROBINSON,
BRADFORD HOWLAND.