

C. MILLER.
Spring Bed-Bottoms.

No. 154,339.

Patented Aug. 25, 1874.

Fig. 1.

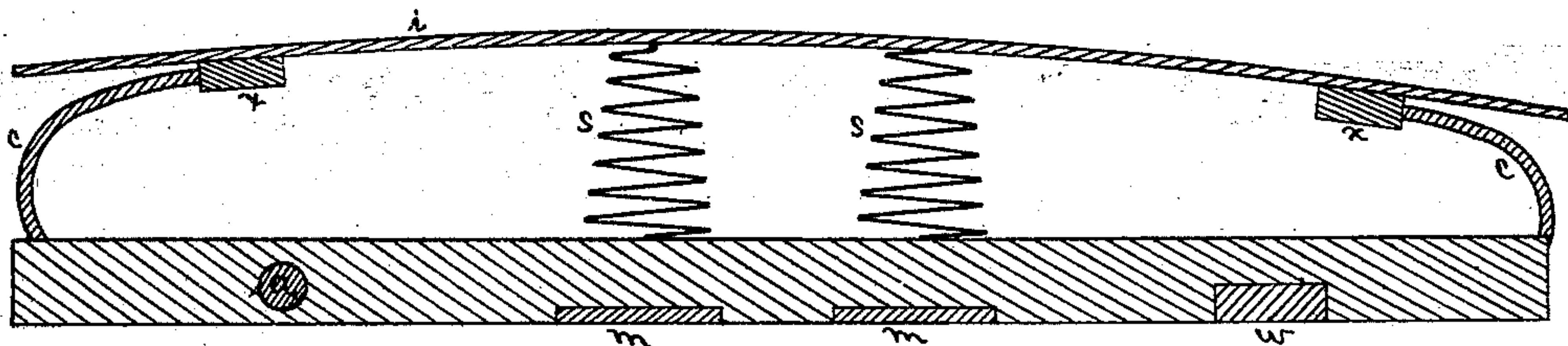


Fig. 2.

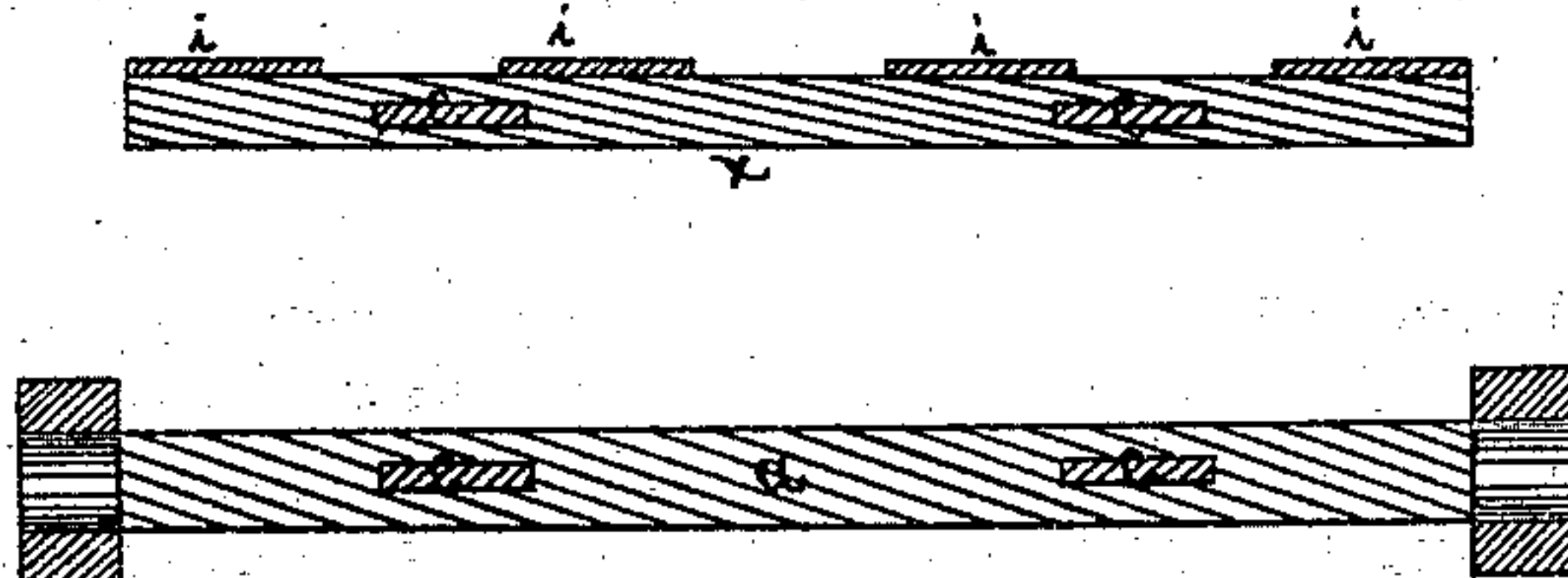
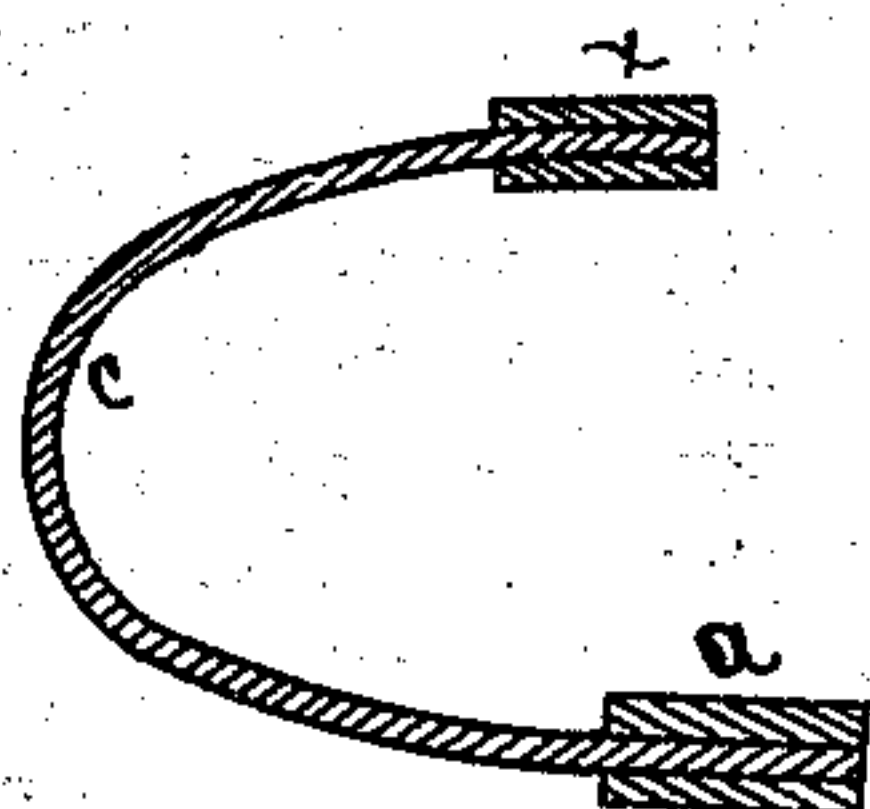


Fig. 3.



Witnesses
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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:

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