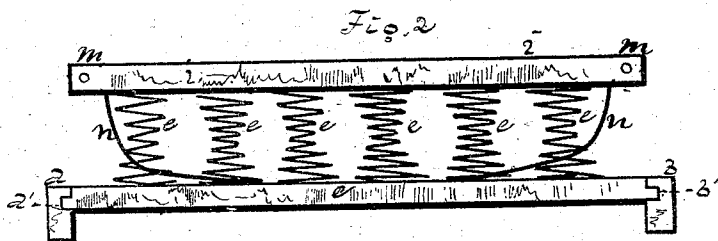
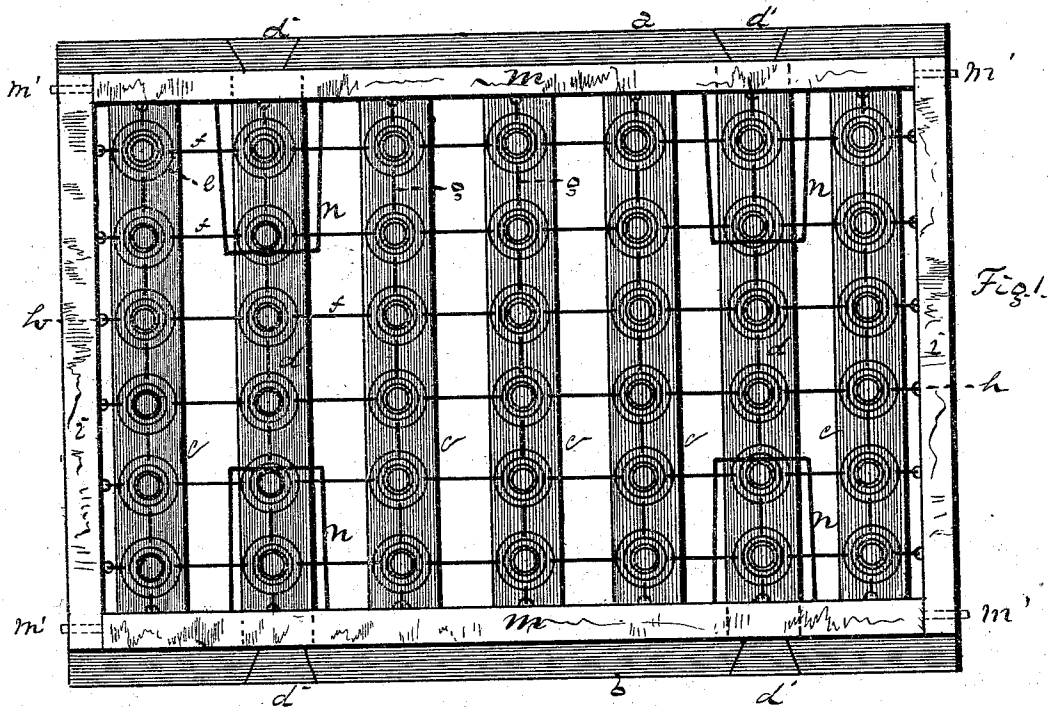


J. JOHNSON.
Spring Bed-Bottoms.

No. 153,898.

Patented Aug. 11, 1874.



Witnesses.

John Pollett
H. G. Simonds

Inventor.

John Johnson
By W. E. Simonds
att'y

UNITED STATES PATENT OFFICE

JOHN JOHNSON, OF HARTFORD, CONNECTICUT.

IMPROVEMENT IN SPRING BED-BOTTOMS.

Specification forming part of Letters Patent No. **153,898**, dated August 11, 1874; application filed February 14, 1874.

To all whom it may concern:

Be it known that I, JOHN JOHNSON, of Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements pertaining to Spring-Beds, of which the following is a specification, reference being had to the accompanying drawings, where—

Figure 1 is a top view of a bed embodying my said improvements. Fig. 2 is an end view of the same.

The invention consists in a combination of spiral springs, connecting-links, and an outside frame having its end rails pivoted to the ends of the side rails.

The letters *a* and *b* indicate the two base-rails of the bed, having on their inner sides the grooves *a'* and *b'*, into which slip the tongued ends of the cross-bars *c*. There are two cross-bars, *d d*, connected to the two base-rails in a different manner from the cross-bars *c*. These two cross-bars have flaring or dove-tailed ends *d'* fitting into corresponding mortises in the tops of the base-rails. On the tops of the cross-bars are set and attached the spiral springs *e*, the upper ends of which are

connected by the links *f* and *g* set at right angles to each other. The outer rows of the springs, at the two ends of the bed, are connected to the end rails *i i* by the links *h*, and the outer rows of the springs at the sides of the bed are connected to side rails *m m* by similar links *h*. The end rails are connected at the ends to the ends of the side rails by being pivoted upon the pins *m'*, so that the rising or falling motion of the side rails shall affect the end rails as little as is practicable. Each of the side rails is pivoted to one of the cross-bars by the arms *n n*, which hold the whole frame—composed of the side and end rails—from any endwise motion on the base-rails.

I claim as my invention—

The combination of the spiral springs connected by links *f g*, the links *h*, the side rails *m*, and the end rails *i*, pivoted to the ends of the side rails, all substantially as shown and described.

JOHN JOHNSON.

Witnesses:

JOHN POLLITT,
WM. E. SIMONDS.