

F. W. MITCHELL.  
Bed-Bottom.

No. 208,917.

Patented Oct. 15, 1878.

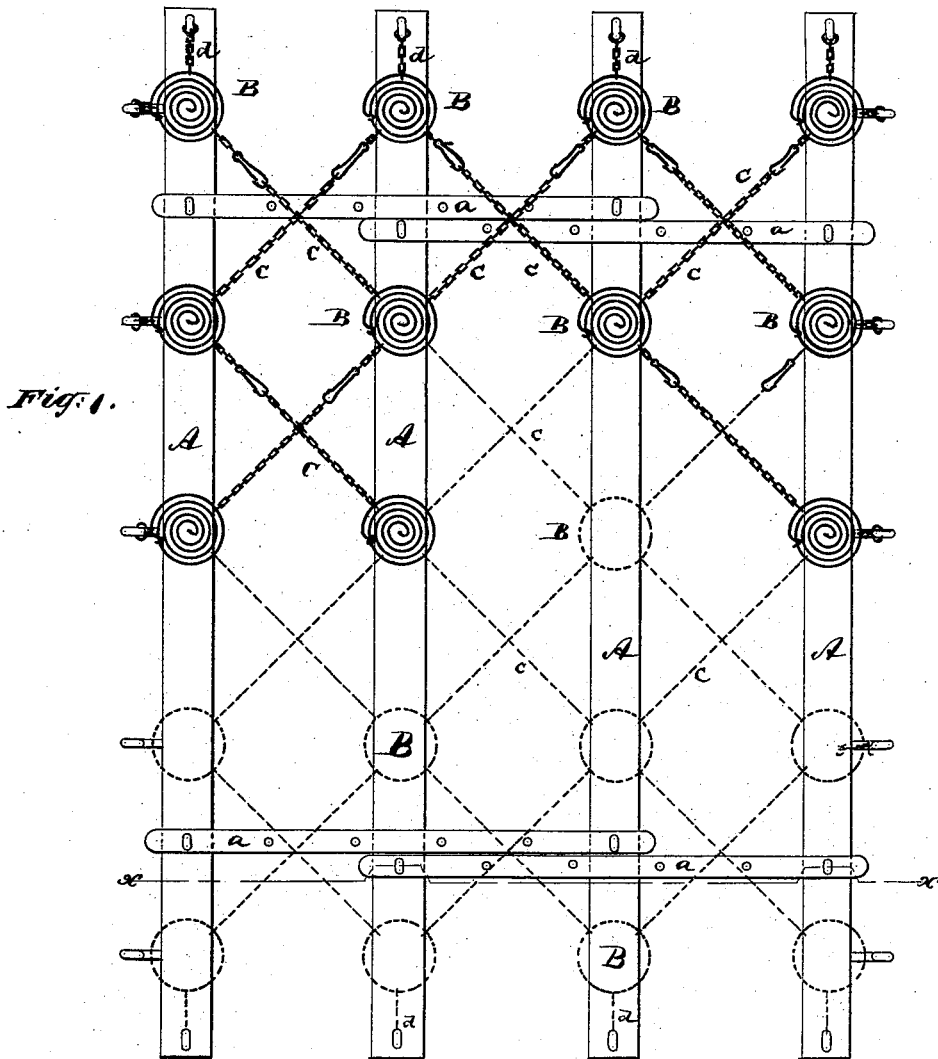


Fig. 1.



Fig. 2.

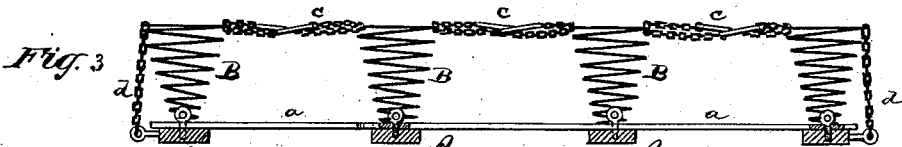


Fig. 3.

Witnesses  
J. B. Mosher  
J. Turk.

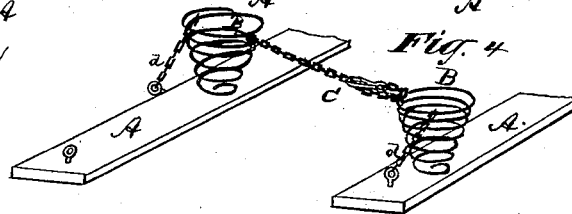


Fig. 4.

Inventor,  
F. W. Mitchell  
by his attorney  
A. W. Brown

# UNITED STATES PATENT OFFICE.

FREDERICK W. MITCHELL, OF HUDSON, NEW YORK.

## IMPROVEMENT IN BED-BOTTOMS.

Specification forming part of Letters Patent No. **208,917**, dated October 15, 1878; application filed July 18, 1878.

*To all whom it may concern:*

Be it known that I, FREDERICK WILLIAM MITCHELL, of Hudson, in the county of Columbia and State of New York, have invented a new and Improved Adjustable Bed-Bottom, of which the following is a specification:

This invention relates to an improved adjustable bed-bottom, which may be made to fit bedsteads of different widths.

The invention consists in the combination of the bedstead-springs, which are supported on laterally adjustable and separable slats, with adjustable doubled chains that connect the springs, all as is hereinafter more fully described.

In the accompanying drawing, Figure 1 represents a top view of my improved bed-bottom. Fig. 2 is a detail side view of one of the adjustable chains, showing its connection with two springs. Fig. 3 is a vertical transverse section on the line *x x*, Fig. 1; and Fig. 4 a perspective view of two springs with their supporting-slats and connecting-chains.

Similar letters of reference indicate corresponding parts in all the figures.

The letters *A A* represent a series of wooden or other parallel slats, which are placed into a bedstead in the customary manner, being supported at their ends by, but not rigidly connected with, suitable ledges, with which the bedstead is provided.

The slats *A* are connected at or near their ends by cross-slats *a a*. (Shown in Fig. 1.) I prefer to use near each end two of such cross-slats, arranged side by side, and provided with holes at regular distances apart, through which the cross-slats may be connected to the slats *A* by small screws or other fastening devices. In this way the slats *A* may be locked at any desired distance from each other.

To the slats *A* are secured, at preferably equal intervals, a series of upwardly-projecting helical or spiral springs, *B*, which serve as

supports for the bedding. In order to prevent these springs from losing their proper vertical position, and in order to give additional support for the bed, I connect each spring with its opposite or diagonally-opposite spring by a chain, *c*, as clearly shown in the drawing. These chains should always be taut. It is evident that these chains must be shortened if the slats *A* are brought nearer together, and lengthened if the slats *A* are set farther apart. This is accomplished by securely fastening each chain *c* at one end to one of the springs *B*, while its other end is doubled around one coil of the diagonally-opposite spring and provided with a snap or other hook, which is hooked into one of the links of the chain in such a manner that the chain is held in the proper stretched condition. Thus, if the slats *A* are brought nearer together for a narrower bedstead, the chains may be readily shortened, while they may be readily lengthened for a wider bedstead.

It will be seen that the slats *A* may be entirely separated from each other by unfastening the hooks of the chains *c* and removing the transverse strips *a a*. In this condition the slats may be readily stored away and sold in any desired number, and the slats of the bed-bottom may be increased or reduced in number *ad libitum*.

Those springs *B* which are situated near the ends of the slats *A* may be attached thereto by small chains *d*, as shown.

I claim—

The combination, in a bed-bottom, of slats *A*, adjustable to and from each other and supporting the springs *B*, and connecting cross-chains *c*, adjustable as to length, as and for the purpose set forth.

FREDERICK WILLIAM MITCHELL.

Witnesses:

T. B. MOSHER,  
J. TURK.