

S. S. WILLIAMS.
Bed-Bottoms.

No. 146,735.

Patented Jan. 20, 1874.

Fig. 1.

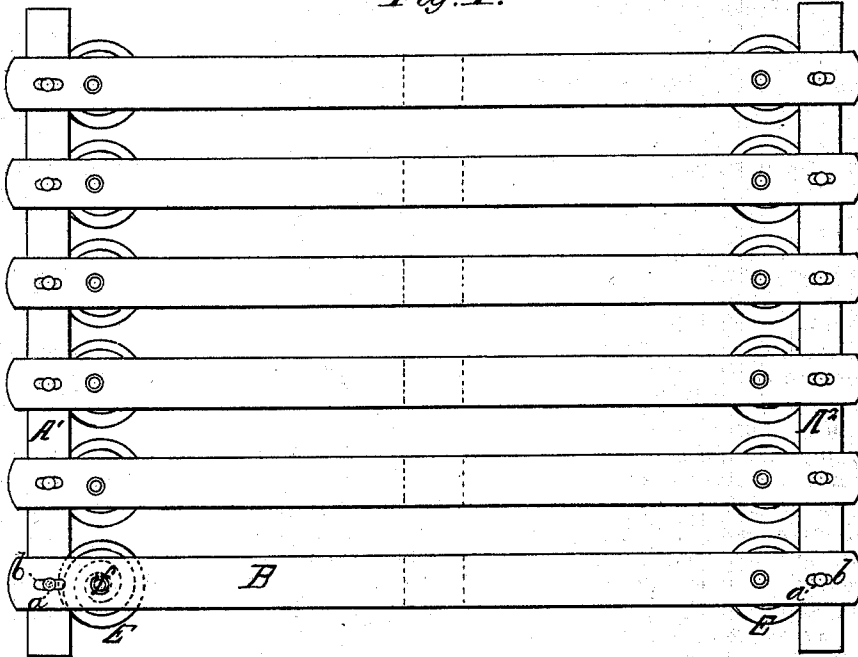


Fig. 2.

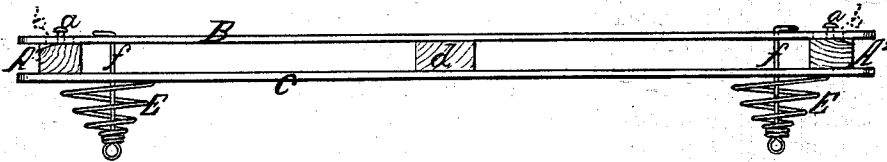
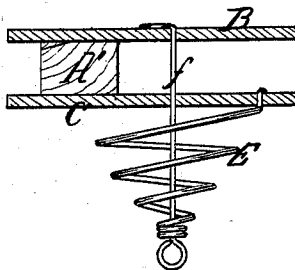


Fig. 3.



Witnesses:

W. H. Du Hamel
Thomas. Byrne

Inventor:

S. S. Williams
Per H. Abbott
attorney.

UNITED STATES PATENT OFFICE.

SILAS S. WILLIAMS, OF WESTFIELD, NEW YORK.

IMPROVEMENT IN BED-BOTTOMS.

Specification forming part of Letters Patent No. **146,735**, dated January 20, 1874; application filed November 3, 1873.

To all whom it may concern:

Be it known that I, SILAS S. WILLIAMS, of Westfield, county of Chautauqua and State of New York, have invented certain new and useful Improvements in Bed-Bottoms, of which the following is a specification:

My invention relates to certain improvements in spring bed-bottoms whereby a simple, cheap, and durable article is produced. The invention consists in a series of double slats, or slats arranged in pairs, each pair being connected firmly at the center by a block of wood secured between the slats, the ends of the upper slat in each pair resting upon bars at the head and foot of the bedstead, and the ends of the lower slat in each pair resting upon conical springs, supported by rods extending from the points of the springs to the upper sides of the upper slats.

In the accompanying drawing, Figure 1 is a plan or top view of my improved bed-bottom. Fig. 2 is a side view of the same. Fig. 3 is a detached view of one of the springs.

A¹ A² represent two bars, the ends of which rest upon the side rails of a bedstead at the head and foot thereof. On the upper sides of these bars rest the ends of slats B, which have slots *b* formed therein for engagement with pins or studs *a*, projecting from the upper sides of the bars. Each slat B is connected firmly at its center to another slat, C, by means of a solid block, *d*, secured between said slats. The ends of the lower slats C pass under the bars A¹ A², and rest upon conical coiled springs E, the form of which is clearly shown in Fig. 3, resembling that of an inverted cone. The slat rests upon the base or larger portion of the spring, which is secured thereto by insert-

ing into the wood the end of the wire which forms the spring. A rod, *f*, connects each spring to the upper slat by passing through the point of the spring and through a hole in the lower slat and another in the upper one, where it is formed into a ring and turned or bent down upon the upper side of the upper slat. The lower end of the rod is also formed into a ring to prevent the point of the spring from slipping off. The upper slats being elastic, the weight of a person resting upon the bed causes them to bend down in the center, the slots *b* at the ends allowing of a slight longitudinal play. The pressure upon the upper slats B is communicated to the lower slats C by means of the block *d*, and the lower slats being thicker and less elastic than the upper ones, the pressure is communicated to the springs E. Thus the slats B and C and springs E combine to form a compound spring or elastic double slat.

I claim as new and desire to secure by Letters Patent—

1. The combination of the slats B and C, springs E, and rods *f*, substantially as shown and described, for the purpose specified.

2. The combination, in a spring bed-bottom, of the slat C, block *d*, and bars A¹ and A² having studs *a*, with the slotted slat B, rod *f*, and spring E, all arranged and operating substantially as shown and described.

In testimony that I claim the foregoing as my invention, I hereunto affix my signature this 27th day of October, 1873.

SILAS S. WILLIAMS.

Witnesses:

WILLIAM CRANDELL,
JOSEPH TINNEY.