

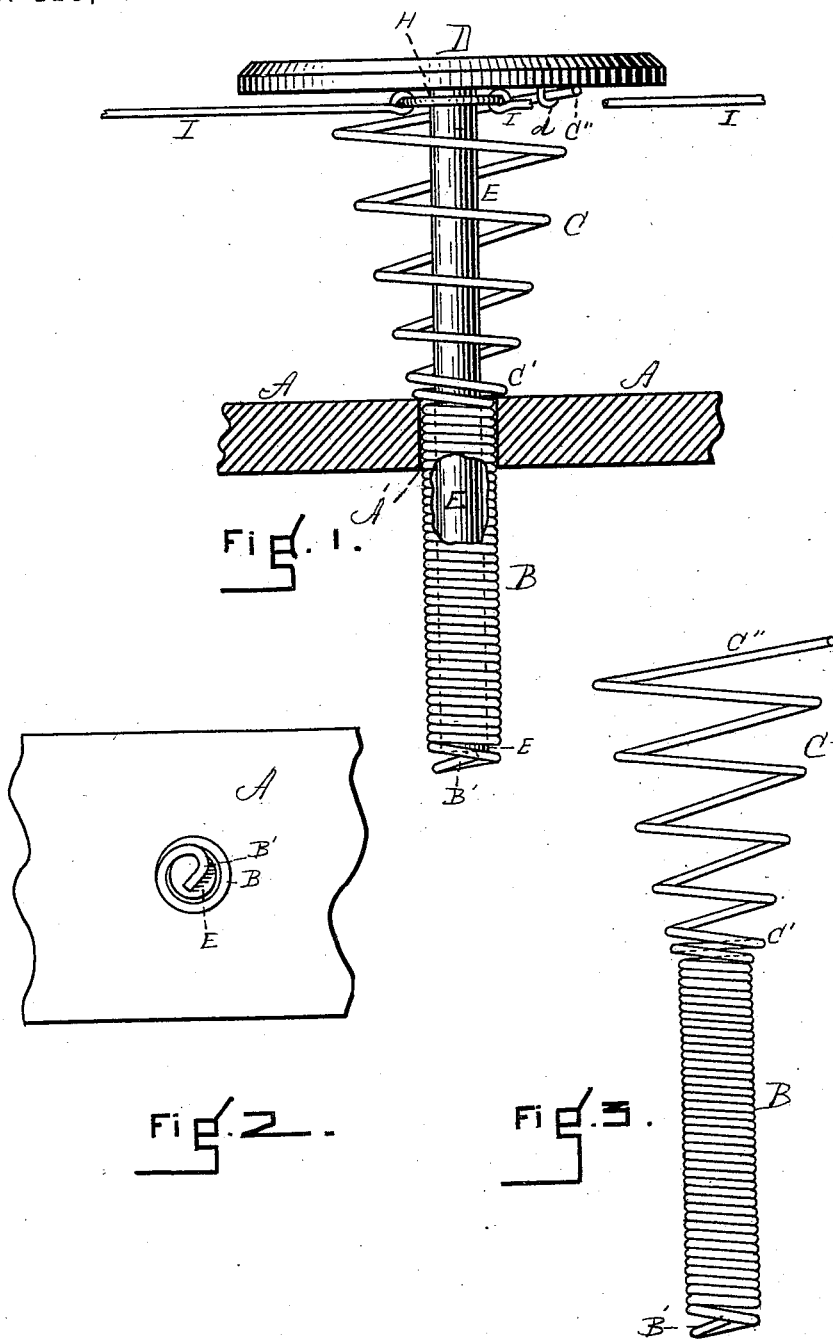
(No Model.)

F. H. HOLMES.

SPRING FOR SPRING BEDS AND FURNITURE.

No. 419,253.

Patented Jan. 14, 1890.



WITNESSES.

J. M. Kartnett.

B. W. Williams

INVENTOR.

Fred H. Holmes.

By his Atty.

Henry Williams

# UNITED STATES PATENT OFFICE.

FRED H. HOLMES, OF DEDHAM, MASSACHUSETTS.

## SPRING FOR SPRING-BEDS AND FURNITURE.

SPECIFICATION forming part of Letters Patent No. 419,253, dated January 14, 1890.

Application filed August 7, 1889. Serial No. 320,033. (No model.)

*To all whom it may concern:*

Be it known that I, FRED H. HOLMES, of Dedham, in the county of Norfolk and State of Massachusetts, have invented a new and useful Improvement in Springs for Spring-Beds and Furniture, of which the following is a specification.

This invention relates to the construction and arrangement of springs for spring-beds, sofas, chairs, and other articles of furniture in which such a spring may be useful.

In the accompanying drawings, in which similar letters of reference indicate like parts, Figure 1 is an elevation of my improved spring in position upon a bed-slat, shown in section. Fig. 2 is a plan view of the under side. Fig. 3 is an elevation of the spring proper detached.

A represents a bed-slat or a piece of the frame of an article of furniture.

B C is the spring, the part B being below the surface of the slat A and the part C being above such surface. The part B of this spring is a closely-coiled spiral spring extending for quite a distance below the slat, which is bored at A' to receive it, the bore being of the same diameter as the spring. The part C is a helical spring. Its lowest coil C' rests on the surface of the slat, while its highest coil C'' supports a head or disk D, (on which lies the mattress,) being preferably secured to said head by a staple *d*. A supporting-post E is secured to the under side of the head or disk D, said post extending down through the helical portion C and then through the spiral portion B, (into which it fits,) and having its lower end supported by a projection or bend B' at the foot of the said portion B. Thus it will be seen that the post E is directly supported by the part B of the spring and the head or disk is directly supported by the part C of the spring. In other words, the bed is supported at points above and below the slats, thus providing great elasticity and only

one-half the lateral swing that would occur if the entire spring were above the slats.

The posts E in a series of springs may be provided with rings H near their upper ends, and horizontal connecting-wires I, catching on said rings, may connect the posts, and hence the springs.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination of the slat or support A, bored at A', the spring consisting of the spiral portion B below the slat and the helical portion C above the slat, and the disk D and post E, said disk D being rigidly secured to said post and resting on the upper coil C' of the helical portion C of the spring, and said post E extending through the two portions of the spring and resting on a projection B' from the lower end of the spiral portion B of the spring, and said spiral portion B being supported by the upper surface of the slat by means of the lowest coil C' of said helical portion C, substantially as and for the purpose set forth.

2. The combination of the slat or support A, having the perforation A', spring consisting of the spiral portion B within the perforation and below the slat and the helical portion C above the slat, the post E, within the spring and resting on a projection B' therefrom, the disk D, secured to the upper end of the post and resting on the upper coil of the spring, the ring H, surrounding the post near its upper end, and connecting-wires I extending from said ring, said spiral portion B being supported by the upper surface of the slat by means of the lowest coil C' of said helical portion C, substantially as described.

FRED H. HOLMES.

Witnesses:

HENRY W. WILLIAMS,  
J. M. HARTNETT.