

A. M. Blake,

Spring for Chair-Feet,

No 77,161,

Patented Apr. 28, 1868.

Fig. 1

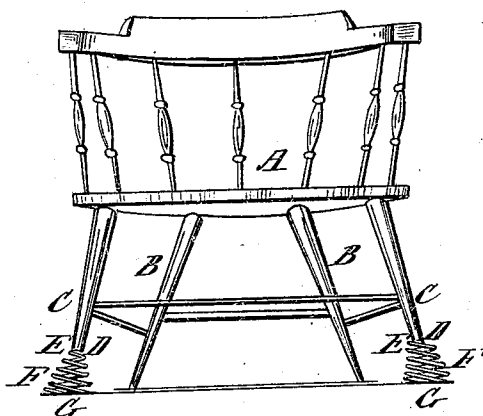


Fig. 2

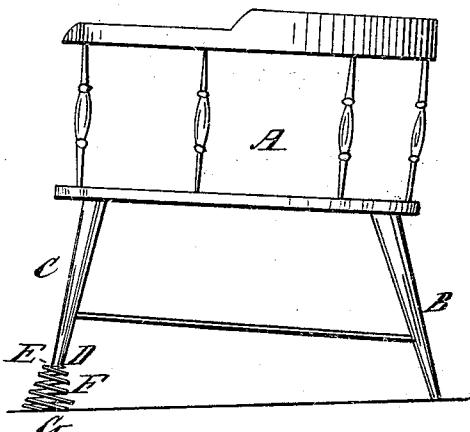


Fig. 3

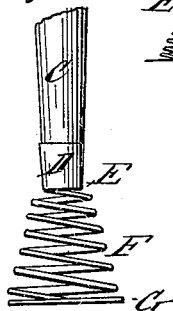


Fig. 4

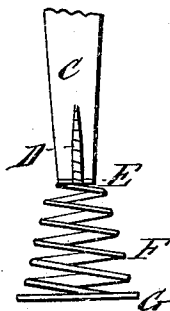


Fig. 5



Witnesses:

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A. MILTON BLAKE, OF CANTON, OHIO.

Letters Patent No. 77,161, dated April 28, 1868.

IMPROVED SPRINGS FOR CHAIRS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, A. MILTON BLAKE, of Canton, in the county of Stark, and State of Ohio, have invented new and useful Improvements in Springs Applied to Chairs; and I do hereby declare that the following is a full, clear, and exact description of my invention, reference being had to the accompanying drawings, and to the letters of reference marked thereon, of which drawings—

Figure 1 is a front view of a chair with my improvement.

Figure 2 is a side view of the same.

Figures 3 and 4 are detail views of the manner of applying the springs to the chair-legs.

Figure 5 is a sectional side view, showing a mode of constructing the plates.

The nature of my invention consists in the peculiar arrangement of a conical spiral spring under the fore legs or the hind legs of a chair, settee, or sofa, or any seat of like character, whereby I convert the common chair into a chair having all the advantages of a rocking-chair, and which rocks quite as easy, if not easier, than any rocking-chair, the peculiar utility of the conical spiral spring, in this place, consisting in the fact that, when said spring is compressed, the several coils lie side by side, instead of lying one on the top of the other, as in the case of a cylindrical spiral spring when compressed, which allows the chair to have a rocking motion equal to the whole height of the spring, instead of only having a motion equal to the sum of the distances between the different coils, as is the case when the cylindrical spiral spring is used, which is an important advantage, as it allows of obtaining all the requisite rocking motion without the necessity of having very high springs, which throw the chair so far back as to be in danger of upsetting when not occupied.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and application.

In the drawings, accompanying this specification, and forming a part of the same, A represents the body of the chair, which is supported on legs, B B, C C, as shown. The hind legs, B B, rest on the floor, as shown, and the front legs, C C, rest on the springs F F.

The manner of attaching the springs F F to the legs C C may be either like that shown in fig. 3, where D represents a socket, in which the leg C is enclosed at its lower end, a plate, E, being secured to said socket on the bottom, as shown, and the spring F being attached to said plate in any suitable manner; or the arrangement may be like that shown in fig. 4, where D is a spindle, with a screw cut thereon, which is screwed into a hole in the leg C, the plate E being attached to the spindle D, and the spring F being attached to said plate E, as in fig. 3.

In both cases, a foot-plate, G, is attached to the bottom of spring F, so as to prevent said spring from injuring the floor or carpet.

The socket or spindle D may be cast with the plate E, or soldered to said plate, and the plates E and G may be cast on the spring F, or soldered to said spring, or be made with flanges, as shown in fig. 5, and the ends of said spring bent in circular form, and sprung in under the flanges, any of these methods being sufficiently strong to make a permanent job.

Having thus fully described my invention, I do not claim the principle of putting springs under the legs of a chair, or bed, or anything of like character, either for the purpose of making a rocking-chair, or for any other purpose; nor do I claim any part of the chair A, B B, C C, nor the socket or spindle D, nor plates E or G, taken separately, as all these features have been before shown; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

The use of the conical spiral spring F, in combination with the foot-plate G, plate E, socket or spindle D, and chair-leg C, in the manner and for the purpose herein specified.

As evidence that I claim the foregoing, I have hereunto set my hand, this 3d day of January, 1868.

A. MILTON BLAKE.

Witnesses:

W. A. WIKIDAL,

E. N. BEEBOUT.