

(Model.)

L. A. WARNER.

CUSHION SPRING FOR CHAIR BACKS, SEATS, &c.

No. 279,998.

Patented June 26, 1883.

Fig. 1.

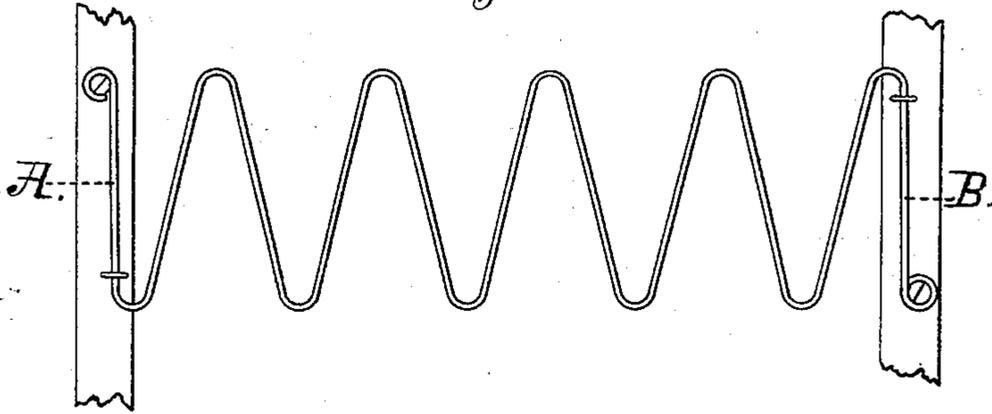
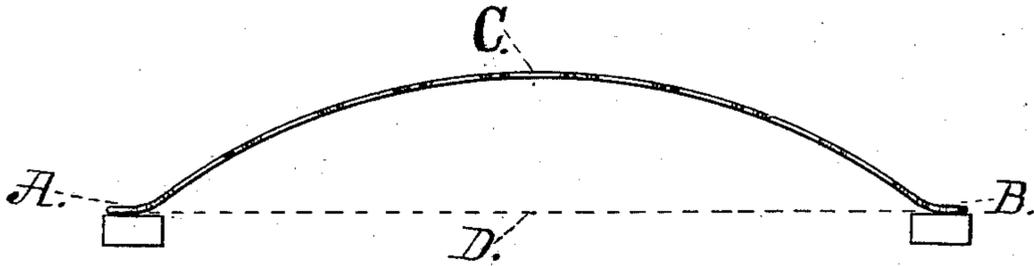


Fig. 2.



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CUSHION-SPRING FOR CHAIR BACKS, SEATS, &c.

SPECIFICATION forming part of Letters Patent No. 279,998, dated June 26, 1883.

Application filed January 24, 1883. (Model.)

To all whom it may concern:

Be it known that I, LEMAN ACKLEY WARNER, a resident of Freeport, in the county of Stephenson and State of Illinois, have invented certain new and useful Improvements in Cushion-Springs Adapted for Use in Chair Backs, Seats, Sofas, and other Similar Articles, which invention is fully described in the following specification and shown in the accompanying drawings, in which—

Figure 1 is a plan of the spring, and Fig. 2 a side elevation of same.

As shown in these drawings, the device is a flat spring consisting of a single wire bent back and forth in a zigzag or sinuous form, all the bends lying in the same or practically the same plane, and the spring having substantially the same form throughout its entire length. The spring thus formed is bent into an arch over any frame-work to which it is desired to attach it, both ends of the arch being securely fastened to such frame-work by means of screws, staples, or other suitable devices, as at A and B, and the frame-work and spring being so arranged that all pressure upon the spring, when in use, shall be against the convex face of the arch.

It is evident that when constructed as shown, and as above described, any pressure upon the spring tends to flatten the arch, and so to press closer together the transverse bends of which the spring is composed, and a spring thus shortened or compressed, when in use, is much more durable than a spring of equal

strength which lengthens or stretches under pressure.

I am aware that there is already in use a spring formed from a single wire, and consisting of a central flat portion and two supporting spiral coils, one at either end of such flat portion, and also that there are numerous forms of springs in which the bends of the wire are helical; but my invention does not embrace any of these forms, nor do I wish to claim any of them.

Having, however, described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A flat spring formed from a single wire, and consisting wholly of a series of transverse bends, all formed in the same plane, said spring being bent in the form of an arch, and provided with means to secure it at its ends to a suitable frame-work, substantially as described and shown, and for the purpose set forth.

2. The combination of a suitable frame or base, and a flat spring bent in the form of an arch whose ends are securely fastened to said frame, said spring being formed from a single wire, and consisting wholly of a series of transverse bends, all formed in the same plane, substantially as shown and described, and for the purpose set forth.

LEMAN A. WARNER.

Witnesses:

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