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JAMES P. CHAMBERLIN.

Improvement in Springs for Beds and Seats.

No. 121,990.

FIG. 1.

Patented Dec. 19, 1871.

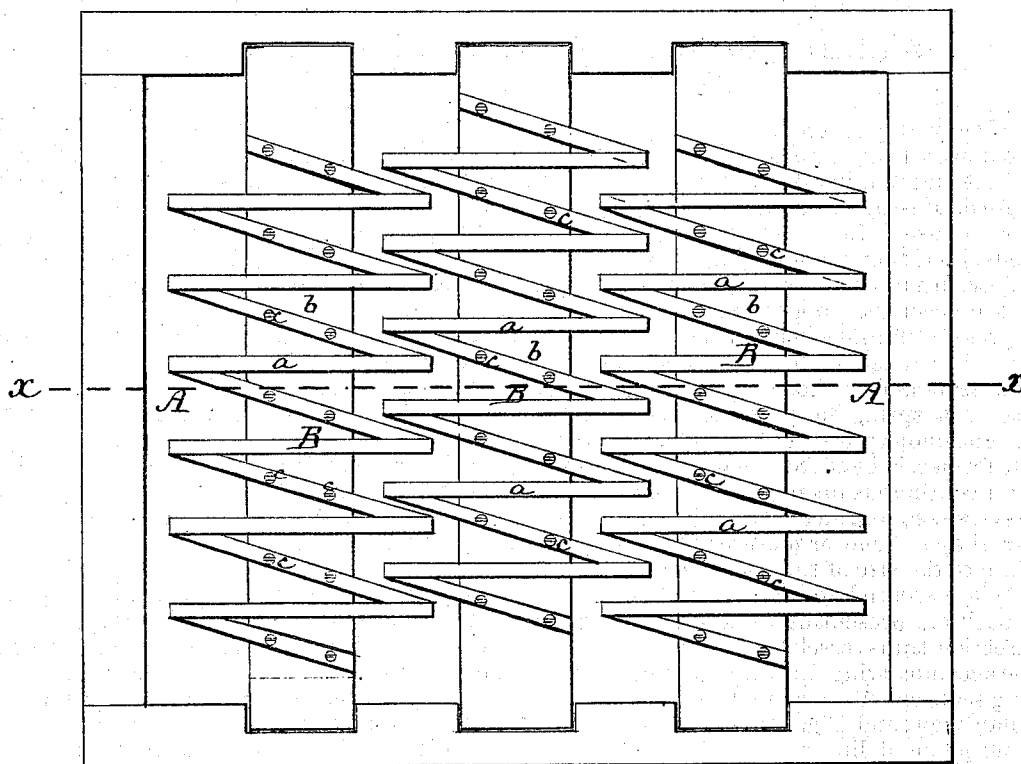
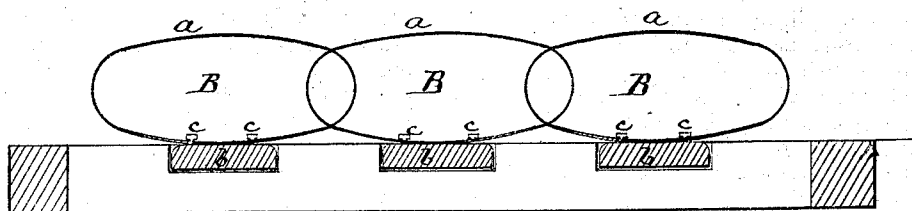


FIG. 2.



WITNESSES.

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UNITED STATES PATENT OFFICE.

JAMES P. CHAMBERLIN, OF NORTH ABINGTON, MASSACHUSETTS.

IMPROVEMENT IN SPRINGS FOR BEDS AND SEATS.

Specification forming part of Letters Patent No. 121,990, dated December 19, 1871.

To all whom it may concern:

Be it known that I, JAMES P. CHAMBERLIN, of North Abington, in the county of Plymouth and State of Massachusetts, have invented a certain new and useful Improvement in Spring Seats and Beds; and that the following is a full and exact description of the same, reference being had to the accompanying drawing.

The present improvement is more especially designed for car-seats, although it is applicable for other seats and for beds. The improvement consists of a spring for seats, &c., constructed from a continuous wire or band, that, upon any suitable former, is bent from end to end into the form of a continuous open spiral spring, having, in transverse section, an oval or elliptical or other circular shape. One or more of these springs, according to the size of the seat or bed, are used, and they are secured to a rail or rails in a horizontal position, presenting the spring for action in a direction transversely to its length.

In the accompanying drawing my improvement in spring seats or beds is represented, Figure 1 being a plan view, and Fig. 2 a transverse vertical section in plane of line *x x*, Fig. 1.

A in the drawing represents a seat more especially constructed with my improved spring B, there being in the present instance three of said springs B, shown as employed. These springs are all similar in shape, and, by preference, are made of a band, *a*, of metal, spring-tempered, which, upon any suitable former, is bent and made into a continuous open spiral shape from end to end, having, in transverse section, an oval or elliptic shape, as shown in Fig. 2 more particularly. The spring-band *a* is secured from end to end flatwise upon a rail, *b*, each coil of the spring at the point where resting thereon being fastened by the nails or screws *c* driven into the rail through the band, as shown. The ends of

the spring-band *a* may, if desired, be turned down over the edge or side of the rail *b*, and there fastened; but it is not necessary. In lieu of securing the spring-band on the rail by screws or nails passing through it, as described, they may be fastened and held by the heads of screws or nails inserted in the rail so as to overlap the edges of the band.

In the use of the continuous spring-bands *a* for a car-seat it is intended to have them extend from front to rear, and in an ordinary car-seat three would be required; and it is best to arrange them as shown—that is, with the coils of the one extending into the open spaces of those next adjoining or alongside it.

For beds they can be arranged either longitudinally with or transversely to the length of the bed.

A spring for seats, beds, &c., constructed as described, possesses many advantages—namely, simplicity, cheapness, an easy, pliant, yet sufficiently rigid action when sat or pressed upon, and, as it is continuous, the free portion of the spring will have no lateral motion. In lieu of a flat band, *a*, the spring may be made of round wire, but a flat wire or band is most desirable.

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

The continuous open spiral spring-tempered band or bands *a* suitably secured to a rail or rails, *b*, substantially as described, and for use as specified.

The above specification of my invention signed by me this 2d day of November, A. D. 1871.

J. P. CHAMBERLIN.

Witnesses:

EDWIN W. BROWN,
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