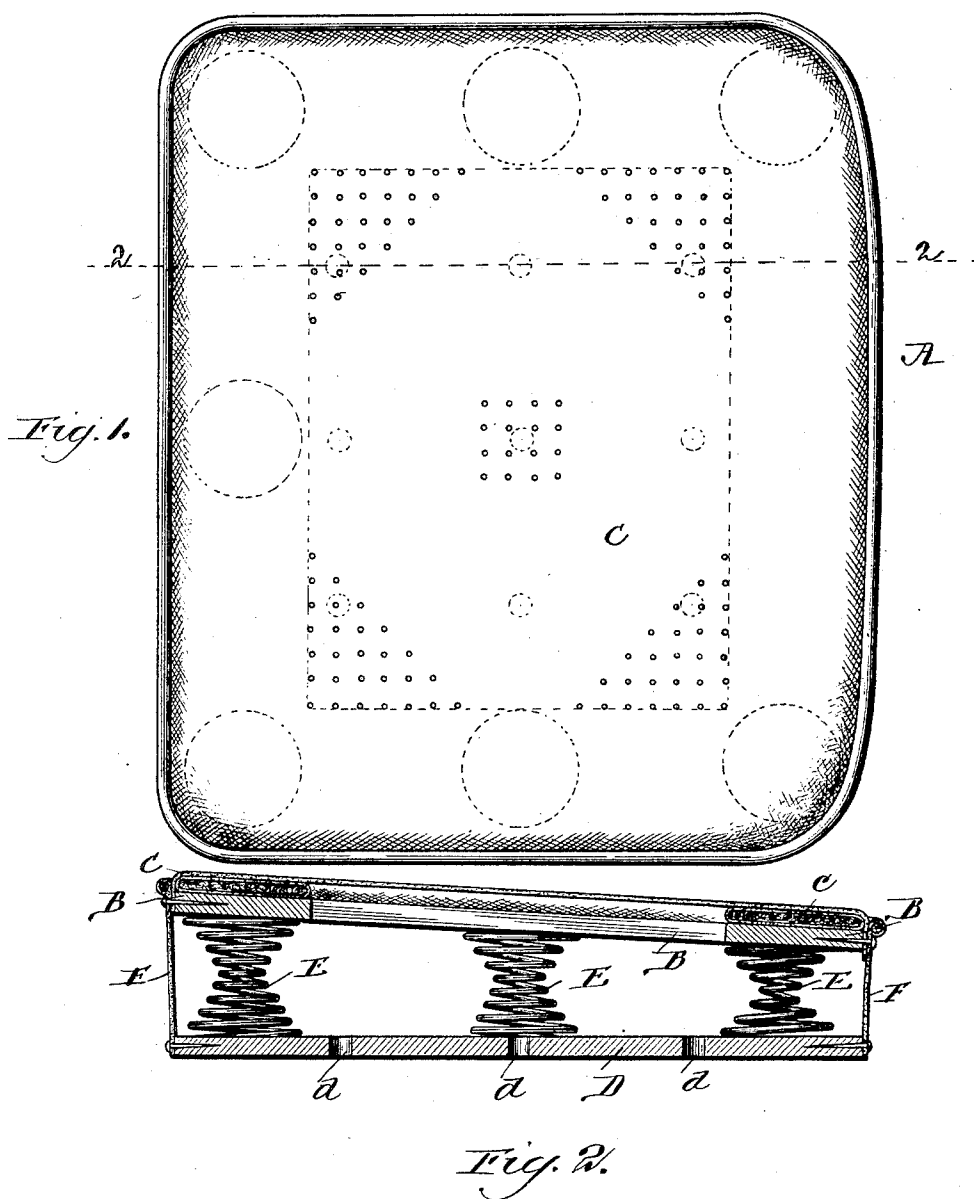


(No Model.)

J. W. KENFIELD.
VENTILATED SPRING SEAT.

No. 462,317.

Patented Nov. 3, 1891.



Witnesses
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UNITED STATES PATENT OFFICE.

JOEL W. KENFIELD, OF CHICAGO, ILLINOIS, ASSIGNOR TO A. H. ANDREWS & COMPANY, OF SAME PLACE.

VENTILATED SPRING-SEAT.

SPECIFICATION forming part of Letters Patent No. 462,317, dated November 3, 1891.

Application filed March 10, 1891. Serial No. 384,504. (No model.)

To all whom it may concern:

Be it known that I, JOEL W. KENFIELD, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Ventilated Spring-Seats, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 is a top or plan view, and Fig. 2 is a cross-section on line 2 2 of Fig. 1.

My invention relates to portable spring cushions or seats which are adapted to be used as cushions upon springless seats of various kinds.

The object of my invention is to provide an improved spring-seat which will present a soft and elastic seating-surface, will be light and durable in construction, and will permit the circulation of air throughout the body of the seat. I accomplish these objects as illustrated in the drawings and as hereinafter specified. That which I regard as new will be pointed out in the claim.

In the drawings, A, Fig. 1, indicates a spring-seat constructed after my improved pattern. The upper portion of the seat A consists of a leather seat, which is stretched upon a rectangular frame B, composed of strips of wood or other suitable material, which strips are mortised or otherwise suitably secured together at the corners, which may be rounded, as shown, to better adapt the seat to fit into a chair or other article upon which it may be placed. Upon the strips B of the frame are placed pads *c*, over which the leather seat-bottom is tightly stretched. The seat-bottom C is fastened to the outer edges of the strips composing the frame B. By this construction the elasticity or spring of the seat-bottom is greatly increased. In order to permit of the passage of air through the seat-bottom C, it is perforated, as best shown in Fig. 1, which perforations may be arranged in some artistic design to add to the appearance of the seat. The lower panel D of the seat is also provided with perforations *d*, as best shown in Fig. 2, which construction permits of the escape of the inclosed air when the seat is compressed.

E E indicate spiral springs, which are made of spring-wire and are shaped like a double

cone, as shown in Fig. 2. The springs E are mounted at suitable points upon the portion D of the seat, as best shown by dotted lines in Fig. 1, and are adapted to support the portion B, being so placed that their upper portions will bear against the under side of the strips B to hold them in the position shown in the drawings. The space between the portions B and D of the seat is inclosed by means of strips F, of leather or other suitable material, which are secured to the edges of the portions B and D, as best shown in Fig. 2.

By the construction shown the cushion or seat A is rendered very soft and flexible, as the spring of the seat-bottom C on the frame B is combined with the elasticity of the springs E and of the bottom D.

Owing to the lightness of the materials used, the entire seat weighs but very little, and it may readily be transported for use wherever desired and is adapted for use as a cushion upon almost any kind of an uncushioned seat, and especially for use upon seats in theaters and other audience-halls. When used for the latter purpose, the seat may be made a part of the chair and be permanently secured in place.

The above-described construction also permits of the free circulation of air throughout the seat, so that it is well adapted for use in warm weather or in warm rooms, as the seat cannot become heated, an objection which is common to the seats now used in public halls generally.

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

A spring cushion or seat consisting of a perforated bottom panel D, an open rectangular top frame B, connected with the bottom panel by flexible material, a series of spiral springs interposed between the perforated bottom panel and the top rectangular frame, the pads *c*, arranged upon the upper part of the top rectangular frame, and the perforated seat-covering C, extending over the pads and attached to the edges of the rectangular frame, substantially as shown and described.

JOEL W. KENFIELD.

Witnesses:

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