

(No Model.)

G. W. PEPPLE.
SEAT.

No. 438,941.

Patented Oct. 21, 1890.

Fig. 1.

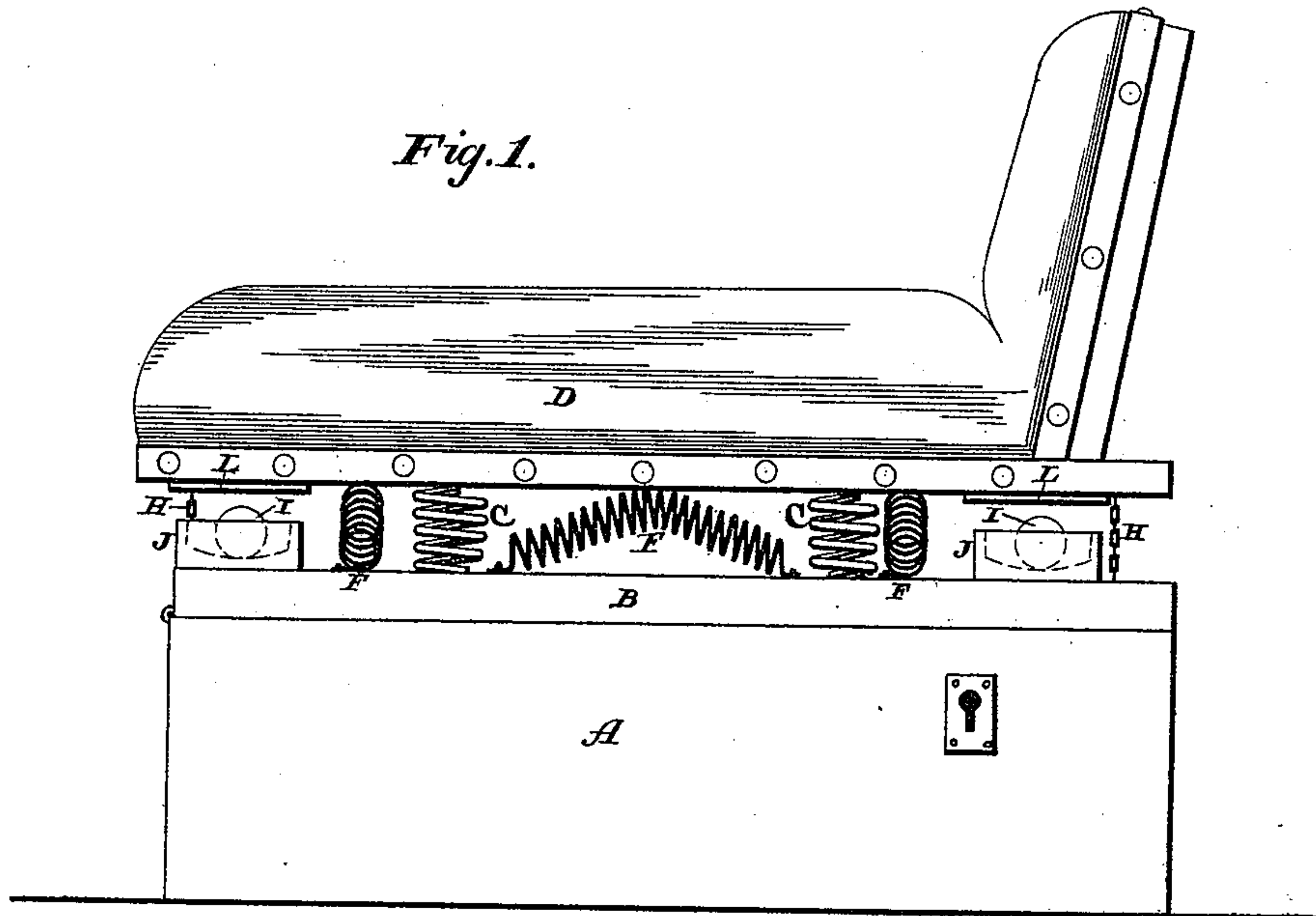
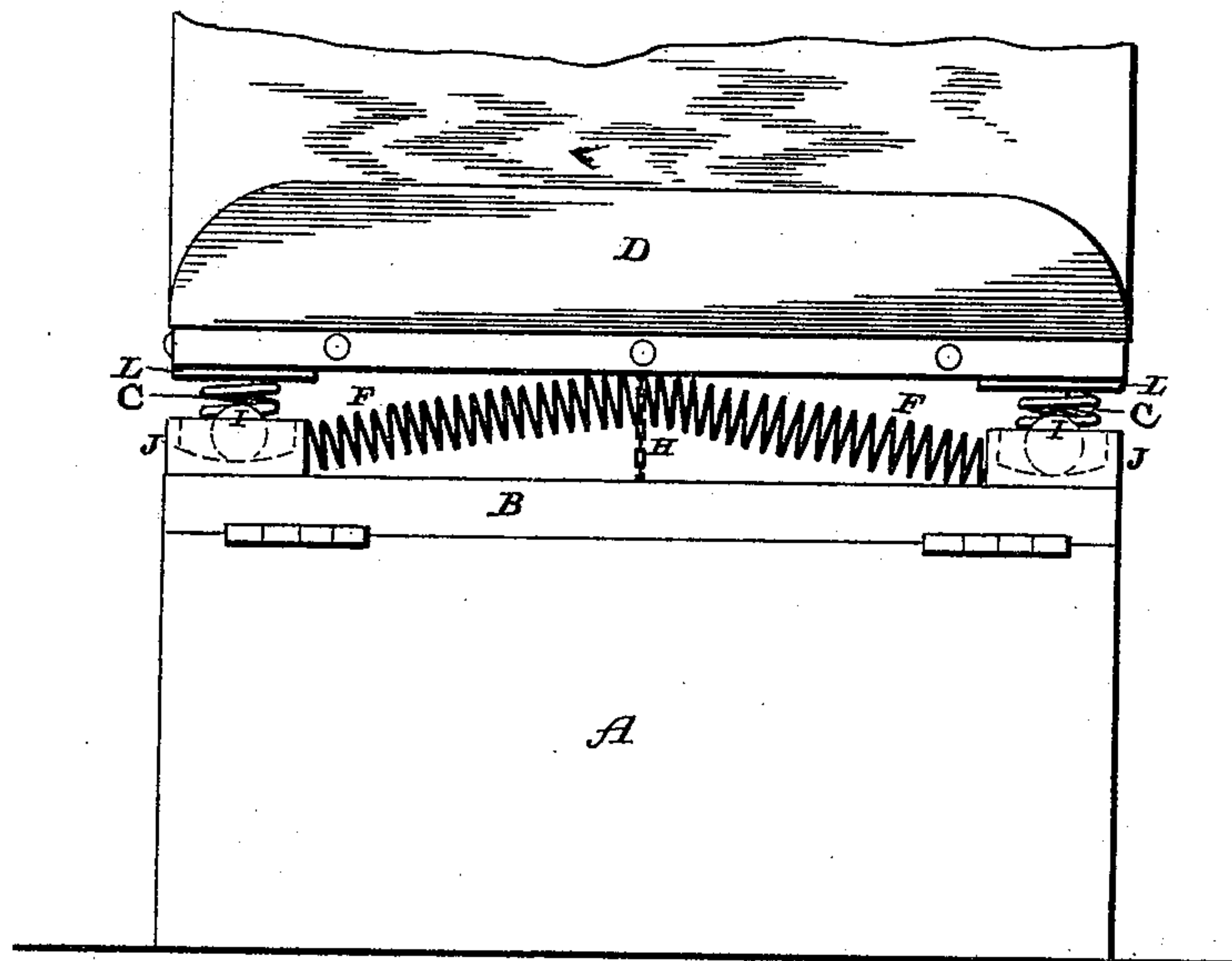


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

GEORGE W. PEPPLÉ, OF AUBURN, INDIANA.

SEAT.

SPECIFICATION forming part of Letters Patent No. 438,941, dated October 21, 1890.

Application filed May 12, 1890. Serial No. 351,462. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. PEPPLÉ, of Auburn, in the county of De Kalb and State of Indiana, have invented certain new and useful
5 Improvements in Seats; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the
10 accompanying drawings, which form part of this specification.

My invention relates to an improvement in seats; and it consists in the combination and arrangement of parts which will be more fully
15 described hereinafter.

The object of my invention is to produce a seat which is especially intended to do away with all of the side and endwise movement of the cars and locomotives while in motion
20 and by means of which a person is enabled to write, read, or recline with perfect ease and comfort.

Figure 1 represents a side elevation of a seat which embodies my invention. Fig. 2 is
25 an end view of the same.

A represents a base or support for the seat and which may be of any suitable construction. As here shown a box is used and the different parts of the seat are secured to the
30 top B, which is hinged to the box at one side or end, and this box serves to contain any articles belonging to the engineer or other person traveling upon the car or locomotive.

Secured upon the top of the cover B in any
35 suitable manner are a number of spiral springs C, upon which the seat D is placed, and also a number of springs F, which are secured at both of their ends to the top of the cover and at their centers to the under side
40 of the seat D. Two or more of these springs F extend in a line with the seat and two or more are placed at right angles, so as to extend across the under side of the seat, and thus counteract all endwise and lateral move-
45 ment of the car or locomotive. The springs C allow the seat D a vertical movement, which is limited by the short chains or wires H, and this vertical movement is just sufficient to give to the seat a free and easy movement
50 without allowing the rollers I to become displaced from the cups J, in which they are held. There may be any suitable number of

these balls I and cups J, though there are only four here shown—one under each corner of the seat. Secured to the under side of the
55 seat, which will preferably be of wood, is a steel plate L for each ball I, and which serve to protect the bottom board of the seat from being injured by the balls as the seat moves
60 back and forth over them. The bottoms of the cups are made concave at their centers, and hence the balls if left free for only a moment by the upward movement of the seat upon the springs instantly return to the centers of the cups. If it were not for the con-
65 cave bottoms the balls would not always be in position to give to the seat the necessary lateral movement.

When the seat is forced downward against the pressure of the springs C, it rests upon the
70 balls I, and then it has a free horizontal movement in all directions, so as to counteract the lateral and endwise movement of the cars and locomotives. This free-sliding horizontal movement especially adapts the seat
75 to be used in a director's or pay-master's car where writing is necessary or where a person wishes to read or recline with perfect ease and comfort. This seat is also especially
80 adapted for locomotives, and affords to the engineer an ease and comfort which cannot be obtained from the ordinary hard seat heretofore used.

I do not limit my invention to the particular form here shown, for it may be made in any
85 shape that may be preferred.

Having thus described my invention, I claim—

In a seat, the combination, with a support having cups provided with concave centers
90 and balls placed therein, of a movable seat, vertical spiral springs which have their ends secured, respectively, thereto, and horizontal spiral springs placed lengthwise and cross-
95 wise the said support and having their ends and centers secured, respectively, to the seat and support, substantially as shown.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE W. PEPPLÉ.

Witnesses:

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