

C. DUECKER.

Springs for the Seats of Vehicles.

No. 145,994.

Patented Dec 30, 1873.

Fig. 1.

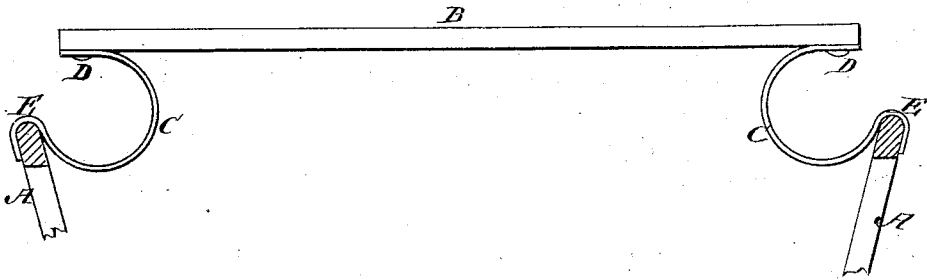
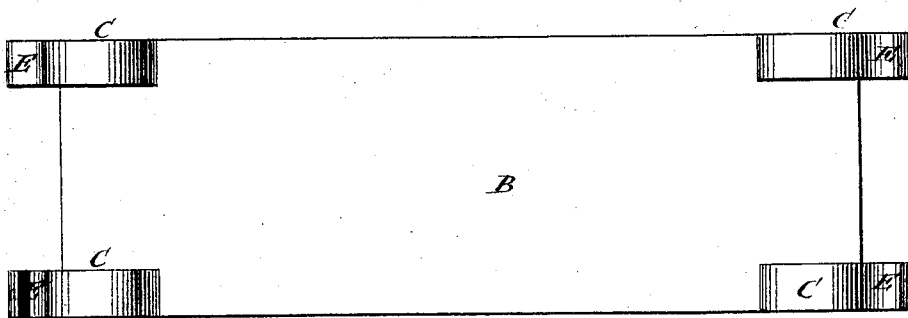


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

CONRAD DUECKER, OF LIVELY GROVE, ILLINOIS.

IMPROVEMENT IN SPRINGS FOR THE SEATS OF VEHICLES.

Specification forming part of Letters Patent No. **145,994**, dated December 30, 1873; application filed October 4, 1873.

To all whom it may concern:

Be it known that I, CONRAD DUECKER, of Lively Grove, in the county of Washington and State of Illinois, have invented a new and useful Improvement in Wagon-Seat Springs, of which the following is a specification:

The object of this invention is to provide simple, cheap, and durable springs for wagon-seats; and it consists of a circular hook-spring, which is attached to each corner of the seat, the springs being so constructed as to rest on the edges of the wagon-box, as hereinafter described.

In the accompanying drawing, Figure 1 represents an edge view, showing the seat as when attached to the wagon-box and in use. Fig. 2 is a view of the bottom side of the seat with the springs attached.

Similar letters of reference indicate corresponding parts.

A are the sides of the wagon-box. B represents the seat. C are the springs. The springs are made of flat steel, so bent as to form bows three-fourths, more or less, of a circle, attached at one end to each under corner of the seat by means of screws, rivets, or nails, as may be found convenient, as seen at D in the drawing. The other ends are bent so as to form hooks E, which rest on the edges A A of the box, and support the seat. The ends

of the springs attached to the seat may be slotted, so that the springs may be adjusted to wagon-boxes of different widths; but such slots are hardly necessary, as the springs are elastic, and will spread or contract more or less.

The springs are light, strong, durable, and very cheaply made. Being attached to the ends of the seat or frame B, one to each corner, they are not in the way of any object or article that may require to be placed under the seat, and also allow some endwise motion of the latter, thereby rendering it more comfortable.

This construction and arrangement of the springs clearly distinguish the invention from semi-elliptic springs with hooked ends, which have been applied or secured to the middle portion of wagon-seats.

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

In combination with the seat B, the circular or bow springs C, having hooks E, and applied to the ends of the seat, as and for the purposes shown and described.

CONRAD DUECKER.

Witnesses:

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