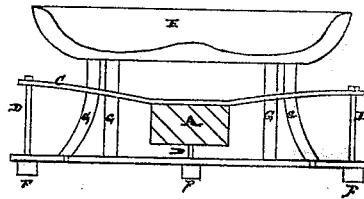
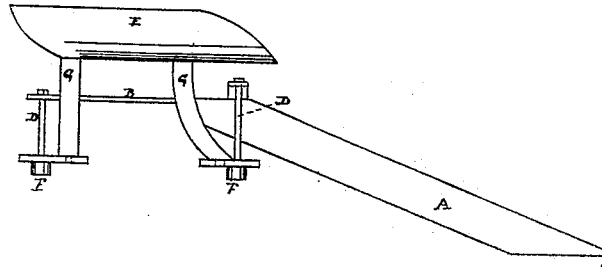


D. R. ALLEN.  
Carriage Seat.

No. 111,714.

Patented Feb. 14, 1871.



Witness.

George E. Paul  
J. L. C. Asketon

Inventor.

Daniel R. Allen  
Per W. H. Clifford  
Allen

# United States Patent Office.

DANIEL R. ALLEN, OF CUMBERLAND, MAINE.

Letters Patent No. 111,714, dated February 14, 1871.

## IMPROVEMENT IN SEATS FOR VEHICLES.

The Schedule referred to in these Letters Patent and making part of the same.

### *To all whom it may concern:*

Be it known that I, DANIEL R. ALLEN, of Cumberland, in the county of Cumberland and State of Maine, have invented a new and useful Improved Seat for Vehicles and for Agricultural Machines; and I hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 shows a side elevation.

Figure 2, a front-end elevation.

Same letters show like parts.

My improved seat can be upheld by a single post, or more than one, and either vertical or inclined.

In the accompanying drawing—

A shows the inclined standard upholding the seat.

From this standard extend springs, or tongues, or bars of metal, B C, in such manner and direction as to support or carry the connections D, which are so attached to the seat E as to allow of its swinging or oscillating motion from side to side and backward and forward.

While thus swinging, the said seat, by reason of its being suspended or supported by the connections, will be always horizontal or nearly so.

The tongues B and C may be made rigid, and of any material, if desired, and a sufficient spring up and down imparted to the seat either by any curved form attending the structure of the connections D, or by the use of springs F, which can be either of rubber or metal.

Different from the device patented by me in Letters Patent before this issued to me, No. 109,368, Nov. 22, 1870, the points from which the seat is supported in this position are, in this application, underneath the seat E, which permits the said seat to be made with no back, or as low a one as may be desired.

Instead of the inclined standard two or more upright ones can be used, and have the connections attached directly to them, or the seat may be supported by rods or connections having universal joints, capable of allowing the motion of the seat to any hand or direction, and fitted with springs, if desired.

The said connections D can, as herein illustrated, or in any equivalent manner, be united directly with the seat so as to allow of its vibratory motion, and may have, if desired, to give steadiness to the motion, weights.

In the drawing G shows posts or standards extending down from the seat, from which the seat is supported, the vibratory motion being obtained at their lower ends; but it can be also so constructed that the said motion shall be obtained at the other end of said standards.

It is plain that the seat and its back may be made rigidly connected together, and the connections which admit of the oscillatory motion be attached to the said back and not to the seat, or to the seat and not to the back.

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

1. The connections or supports D when used to uphold the seat E by such means as to permit of its oscillating motion, and still keep the said seat horizontal or nearly so, as herein described.

2. The seat E, when suspended by connections D arranged underneath said seat, and with or without the springs or bars B C, as herein set forth.

3. The springs F, when applied, as herein set forth, either to the top or bottom of the supports D.

DANIEL R. ALLEN.

Witnesses:

W. H. CLIFFORD,  
E. H. WILSON.