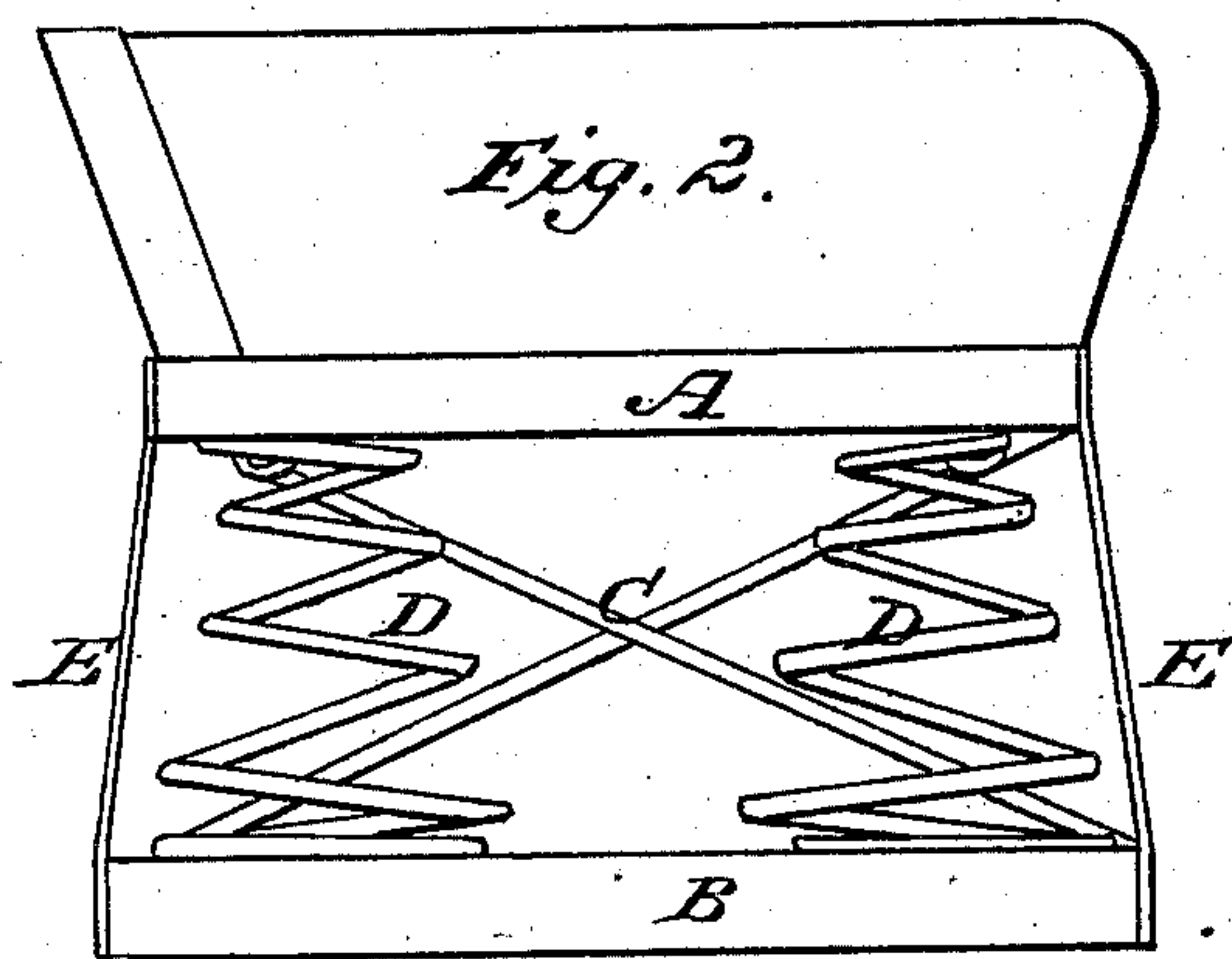
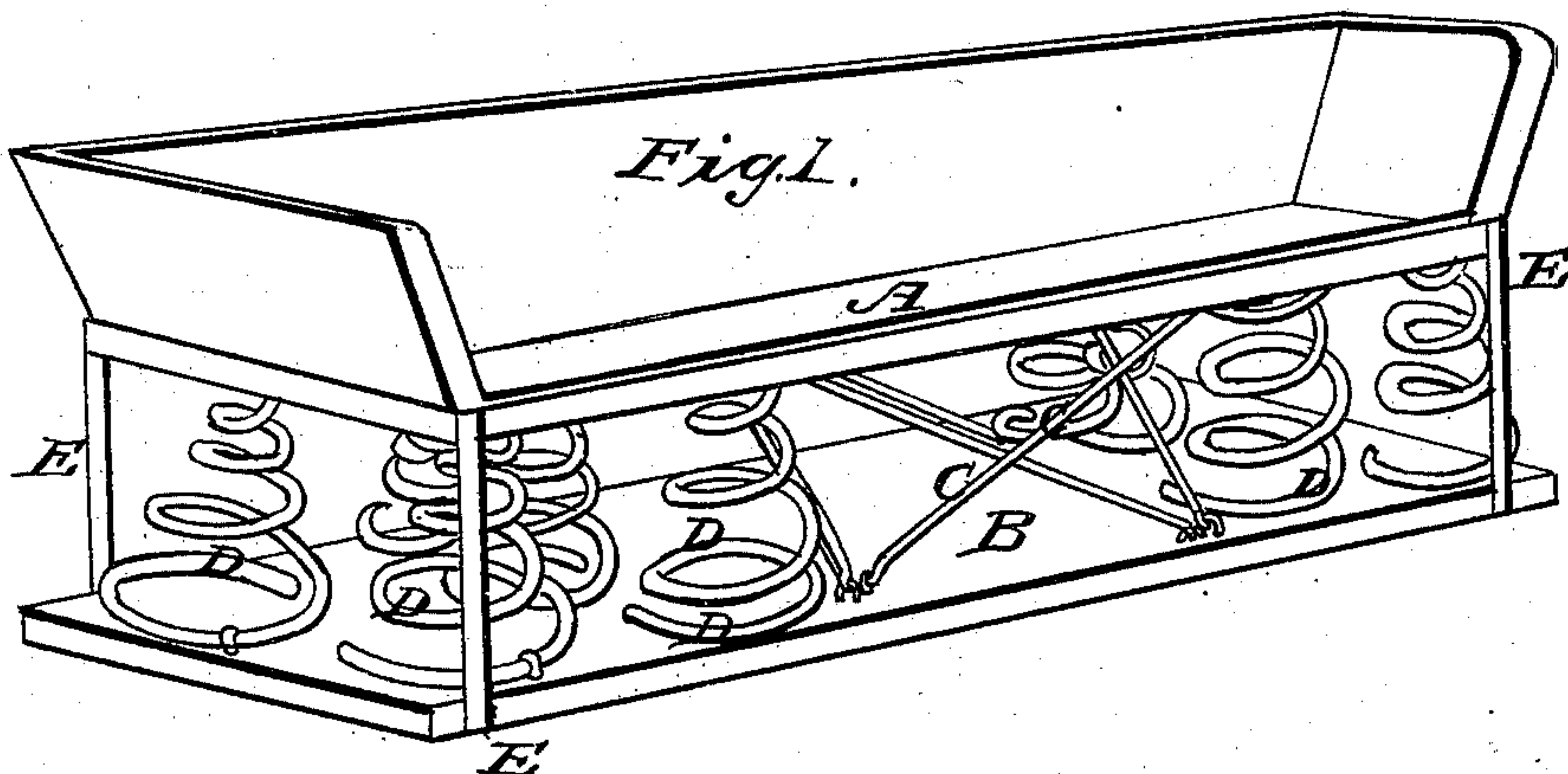


H. H. PALMER.

Wagon Seat.

No. 80,562.

Patented Aug. 4, 1868.



WITNESSES

G. W. Ford  
Wm. L. Lister

INVENTOR.

H. H. Palmer

# United States Patent Office.

HENRY H. PALMER, OF ROCKFORD, ILLINOIS.

*Letters Patent No. 80,562, dated August 4, 1868.*

## IMPROVEMENT IN SPRING-SEAT FOR WAGONS.

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, HENRY H. PALMER, of Rockford, Winnebago county, State of Illinois, have invented a new and improved Spring-Seat; and I hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings.

Figure 1 is a plain front view of my invention.

Figure 2 is an end view of the same.

Similar letters of reference indicate like parts.

This invention relates to a new and improved spring-seat, in which a conical wire spring is used between the seat proper and an extra bottom or base-board, to which the springs are attached by staples or otherwise.

The object of the invention is to obtain a spring-seat, which will spring not only up and down like other spring-seats, but will also yield laterally and sideways, so as to almost entirely relieve the occupant from the jolt of the wagon in all directions, and also less than half the cost of the ordinary spring.

A represents a common wagon-seat; B, the bottom, upon which the springs are fastened.

D D D represent the springs, conical in form, with their base or large end fastened to the board B, the small end of which is turned up, so as to enter holes made for the purpose in the bottom of the seat A.

E E E are flexible straps, connecting the seat A to the bottom, B.

The cross-braces C may be either a flexible strap or a metallic spring, bent inwardly, so as to be capable of yielding back towards the centre, one end of which is attached to one side of the bottom, B, thence angling upward to the opposite side of the seat A, and *vice versa*, endways, crossing each other, as at C, fig. 2, for the purpose of preventing too much lateral or side motion.

Having thus fully explained and set forth the nature and object of my invention, what I claim, and desire to secure by Letters Patent, is—

Seat A; bottom B, braces C, and straps E, in combination with the spring D, when arranged to operate substantially in the manner herein described.

HENRY H. PALMER.

Witnesses:

H. H. WALDO,

M. L. UTTER.