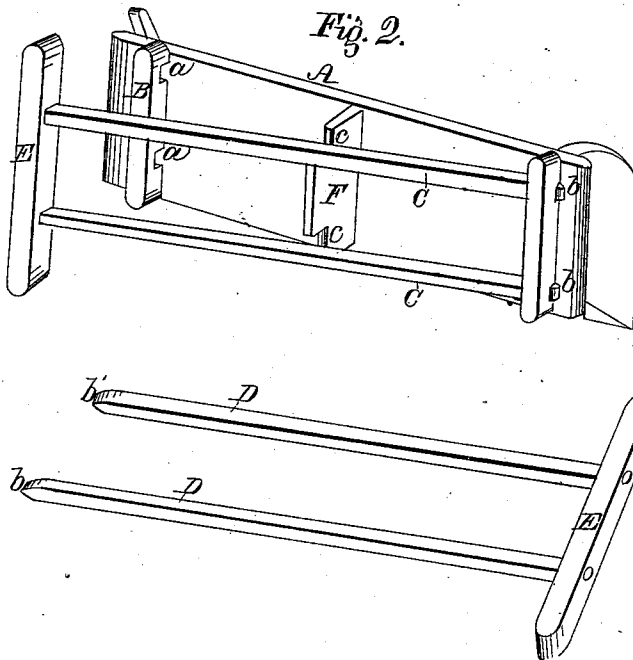
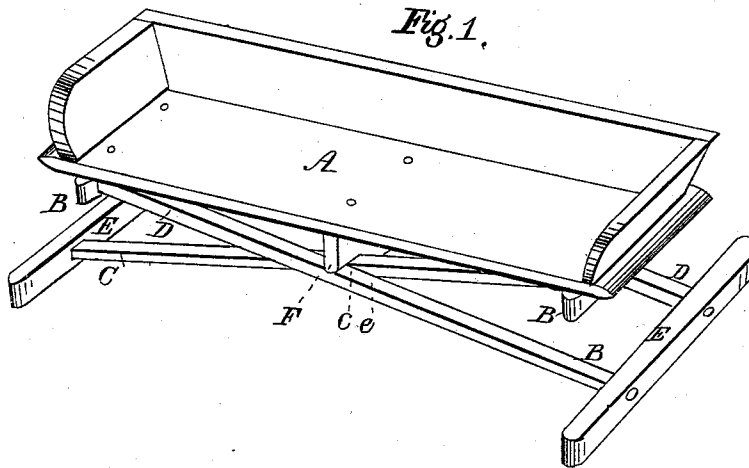


NALE & ROGERS.
Wagon-Seat Spring.

No. 82,340.

Patented Sept. 22, 1868.



Witnesses.
Geo. P. Patton
Edw. Pool

Inventor.
Moht Nale & Geo W. Rogers
By their attorney W. Blount

United States Patent Office.

JOHN H. NALE AND JOHN W. ROGERS, OF DECATUR, ILLINOIS.

Letters Patent No. 82,340, dated September 22, 1868.

IMPROVEMENT IN SPRINGS FOR WAGON-SEAT.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that we, JOHN H. NALE and JOHN W. ROGERS, of Decatur, in the county of Macon, and State of Illinois, have invented certain new and useful Improvements in Spring-Seats for Wagons; and we do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a perspective view of the seat.

Figure 2 represents a perspective view of the seat from below, or underneath, and as having one of the spring-supports removed to show the bridge-support.

Similar letters of reference, where they occur in the separate figures, denote like parts of the seat in both of the drawings.

Our invention consists in the construction of a spring-seat for wagons, it having crossed and bracing-springs, supported at or near their centres or point of crossing by a bridge, and made transposable, so that when the springs become bent in one direction by use, they can be transposed and turned over the other way, so that the load will tend to straighten them.

To enable others skilled in the art to make and use our invention, we will proceed to describe the same with reference to the drawings.

A represents a seat, of any ordinary construction, plain, or otherwise, so that it may be padded or hold a cushion, as may be desired. Underneath this seat A, are two strips B, having mortises *a a* therein, one at each end of the seat, and so made as to receive the two ends *b b*, respectively, of the spring cross-pieces C D, which have at their lower ends supporting-pieces E. There is also underneath the seat, and at its central portion, a bridge, F, notched, as at *c c*, so as to receive and rest or be supported upon the cross-spring pieces C D, and brace the latter also, to keep them from spreading or coming together. The spring-pieces C D may be of steel, but for a cheap and very efficient spring, we propose to make them of wood, ash, hickory, or any other tough and elastic wood.

The tendency of the spring-braces C D, under continuous loads, is to bend downwards at their centres. Whenever this occurs, the springs may be changed or turned over, so that the bend will be upward, and the load will then straighten them.

These seats, we propose to make and sell as an article of commerce or manufacture, they being suitable to put into any common wagon, and furnish a very comfortable seat to the user.

Having thus fully described our invention, what we claim therein as new, and desire to secure by Letters Patent, is—

A spring-seat for wagons, composed of reversible cross-spring braces, supported by and in turn supporting the seat by a bridge-piece at or near their points of crossing, substantially as herein described and represented.

JOHN H. NALE,
JOHN W. ROGERS.

Witnesses:

C. A. MASTERSON,
T. C. ODOR.