

W. GARDNER.
REVERSIBLE SEATS.

No. 181,571.

Patented Aug. 29, 1876.

Fig. 1

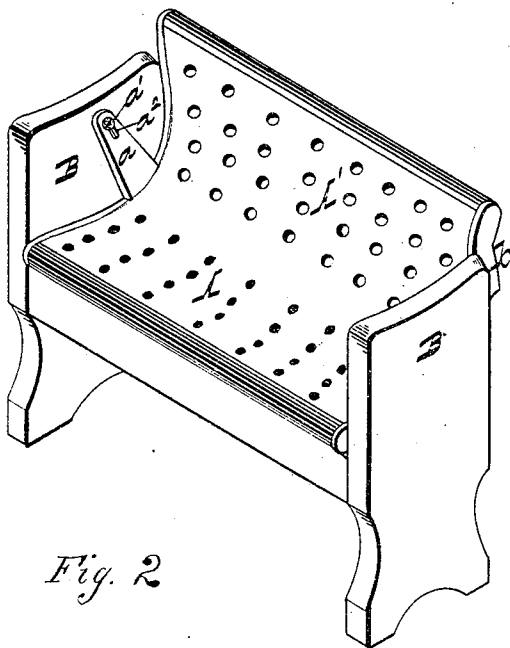
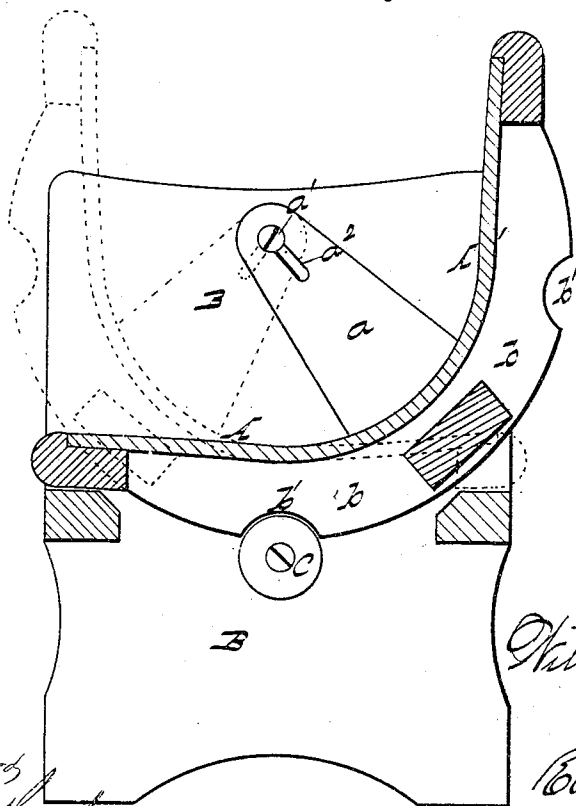


Fig. 2



WITNESSES

Thomas Bernard,
J. William Foster

William Gardner
INVENTOR

Edson & Co.

ATTORNEYS

UNITED STATES PATENT OFFICE.

WILLIAM GARDNER, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF HIS
RIGHT TO OLIVER L. GARDNER, OF SAME PLACE.

IMPROVEMENT IN REVERSIBLE SEATS.

Specification forming part of Letters Patent No. 181,571, dated August 29, 1876; application filed
May 31, 1876.

To all whom it may concern:

Be it known that I, WILLIAM GARDNER, of New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Reversible Seats; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved reversible seat, and Fig. 2 a transverse section thereof.

Corresponding parts in the two figures are designated by like letters.

This invention relates to a certain improvement in reversible seats; and it consists of a hung or suspended seat and back, acting alternately in the capacity of one another, as their positions are changed or reversed, and revolving or bearing upon rollers, &c., substantially as hereinafter more fully set forth.

In the annexed drawing, A refers to the seat, and A' to the back, preferably in one piece, and alternately acting in the capacity of one another, as the seat is reversed or revolved. Arms or bars *a a* extending from the sides of the seat at a point about equidistant between the front of the seat and the top of the back, and connected by pivots *a' a'* passing through slots *a² a²* in said arms to uprights or side pieces B B, enable the seat and back to be hung concentrically with the arc described in their movement to cause the seat and back to act alternately in the capacity of one another. To the sides of the seat and back A A' are fastened strips or pieces *b b* in shape the arc of a circle, and resting upon rollers *c c* rotating upon axes secured to the inner side of the side pieces B B. At the ends of the said strips or pieces *b b*, or thereabout, are recesses or notches *b' b'*, into which enter the rollers *c* upon the side pieces B B, to retain the seat in a fixed position. To reverse the

seat, lift the front of the same slightly, when the arms *a a* thereof will have a limited upward movement, their slots *a² a²* being elongated to allow them to have play upon their pivots *a' a'*, and the rollers *c* be freed from the notches or recesses *b' b'* of the side pieces or strips *b b*, and the seat can be revolved, reversing it.

This construction furnishes a simple, cheap, and easy seat for railroad-cars, settees, &c.

The rollers *c c*, described as rotating upon axes attached to the side pieces B B, may be fastened firmly and directly to the latter. In lieu of the said rollers may be used blocks of wood or metal rounded upon their upper surface in the arc of a circle.

If desirable, the segmental strips or pieces *b b* may be transferred from the seat and attached to the side pieces B B, and the rollers *c c* from the side pieces and attached to the seat.

I am aware that, broadly, a hung or suspended seat and back acting alternately in the capacity of one another, as their positions are changed, is not new.

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

1. The hung or suspended seat and back A A', alternately acting in the capacity of one another as their positions are changed or reversed, and revolving or bearing upon rollers, &c., substantially as and for the purpose set forth.

2. The seat and back A A', hung between side pieces, and having curved bars or strips *b b*, provided with notches or recesses *b' b'*, in combination with rollers *c c* attached to said side pieces, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I hereunto affix my signature in presence of two witnesses.

WILLIAM GARDNER.

Witnesses:

DAVID THORNTON,
FRANK MERRITT.