

J. D. CAREY.

End-Gates for Wagons.

No. 134,358.

Patented Dec. 31, 1872.

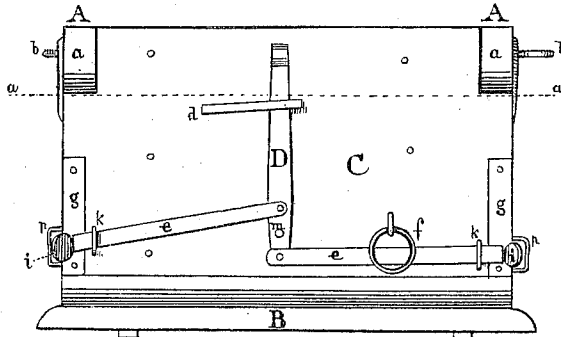


Fig. 1.

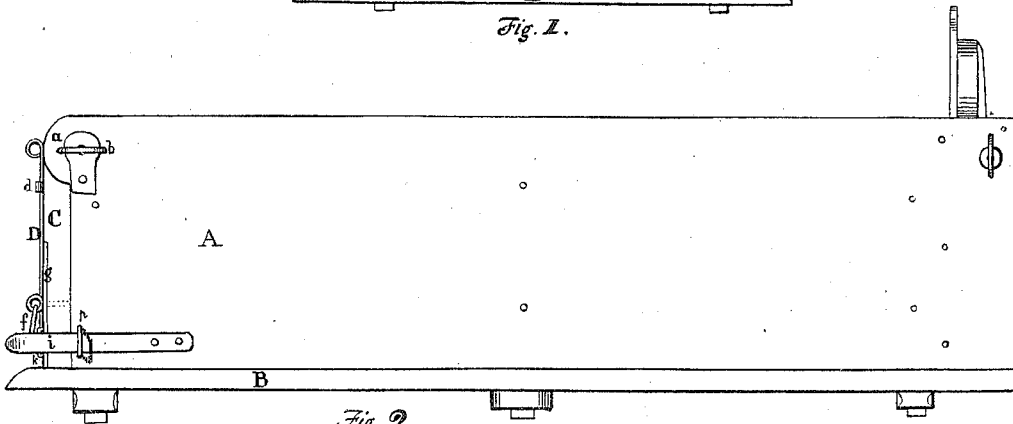


Fig. 2.

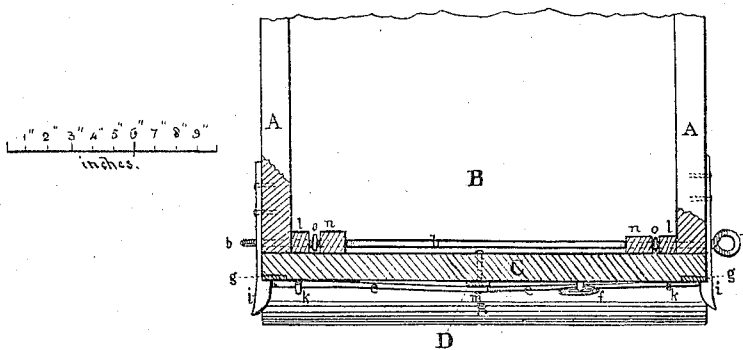


Fig. 3.

Witnesses
Isa Garrison
John Jones

Inventor
Jesse D. Carey,
by Edmund Hunter, his atty

UNITED STATES PATENT OFFICE.

JESSE D. CAREY, OF MONICA, ILLINOIS.

IMPROVEMENT IN END-GATES FOR WAGONS.

Specification forming part of Letters Patent No. 134,358, dated December 31, 1872.

To all whom it may concern:

Be it known that I, JESSE D. CAREY, of Monica, in the county of Peoria and State of Illinois, have invented an Improvement in End-Gates for Wagons, particularly adapted for those employed to transport and discharge grain; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawing making a part of this specification, in which like letters of reference refer to like parts, and in which—

Figure 1 represents a rear elevation of the wagon and gate closed; Fig. 2, side elevation; and Fig. 3, a plan, partly in section.

This invention consists of an end board or gate for wagons, pivoted on a horizontal rod, which acts as the usual brace for the side-boards of many wagons, (passing through ears or semicircular projections from the upper corners of the respective sides,) said gate shutting squarely onto the ends of the side-boards, where the gate is held between the heads of a spring-catch on either of said side-boards. Said catches are simultaneously pushed outward to release the gate by means of two sliding bars pivoted to either arm of a lever, which turns upon a pin or bolt on the rear of the gate.

In the drawing, A represents the side-boards united at their upper rear corners, in the center of their semicircular ears *a a*, by the brace-rod *b*. Low down on the nether edge of each side-board, on its exterior face, is fixed a horizontal catch, *i i*, the shoulder of which projects far enough to the rear to include the outer edge of the gate C. B, the wagon-bottom, the rear upper corner being well rounded down so as not to impede the closing of the gate; C, the gate, strengthened by braces on its interior side, and pivoted upon and suspended by its upper edge from the brace-rod *b*, which passes through the ears *a a* of the side-boards. A notch or recess is cut in each upper corner

to receive either ear *a a* of the side-boards, and so shaped as to fit the arc of the ears *a a* at any point to which the gate is opened, and allow it to shut vertically against the end of the wagon. In the center of the lower part of the exterior of the gate is pivoted a hand-lever, D, the longest arm or handle being confined within a slot or staple, *d*, and on each side of its pivot is also pivoted the end of a rod or bar, *e e*, one bar above and one below the lever-pivot, their remoter ends being confined in a slot or staple, *k k*, opposite the respective catches *i i*, the end of each bar *e e* resting against one of the said catches when the gate is closed. The edges of the gate upon which the catches are detained is armed with a metal plate, *g g*.

The operation of this gate is as follows: It is opened by pressing the handle of lever in that direction which brings both rods *e e* simultaneously against their respective adjoining catches *i i*, which throws the latter both off the edge of the gate at once, allowing the latter to open by the weight of the contents of the wagon, or by pulling the ring *f* or other handle attached to the lower part of the gate. On releasing or removing the operator's hand from the handle of the lever D the spring-catches fall forward again into their normal position, ready to again retain the gate when desired to close it.

What I claim as my invention is—

The combination of the wagon-box ears *a a*, rod *b b*, hanging-gate C, staple *d*, pivoted lever D, attached levers *e e* with their staples *k k*, and spring-catches *i i*, as described.

In testimony that I claim the foregoing wagon-gate I have hereunto set my hand this 23d day of October, A. D. 1872.

JESSE D. CAREY.

Witnesses:

JOSEPH ARMSTRONG, Sr.,
JOSEPH ARMSTRONG, Jr.