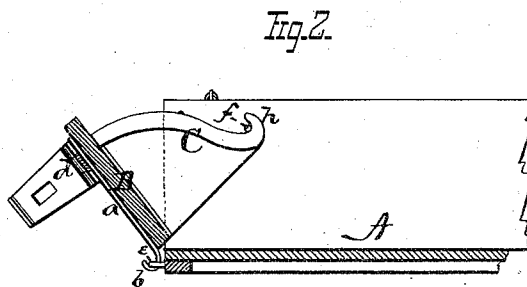
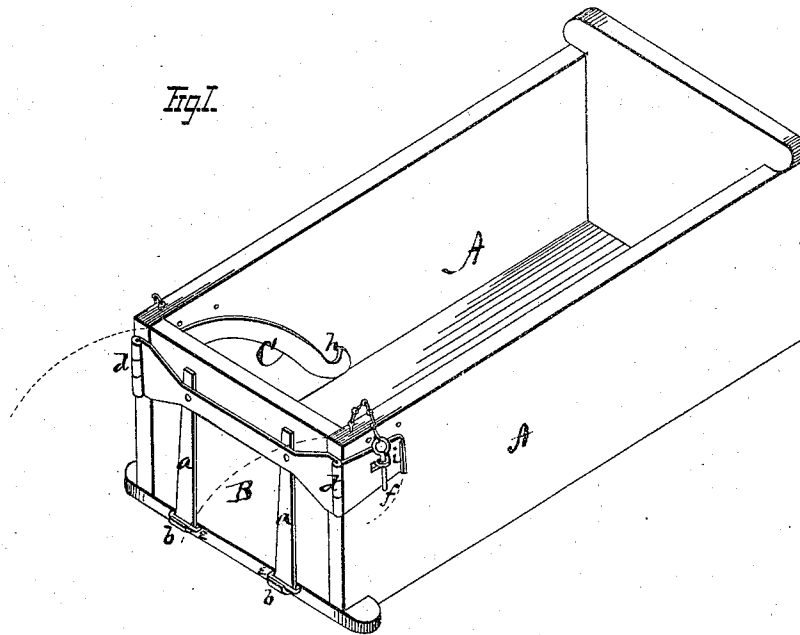


W. W. HINMAN.
End-Gates for Wagons.

No. 133,646.

Patented Dec. 3, 1872.



Witness:
Jas. C. Hutchinson
C. L. Evert.

Inventor
Wm. W. Hinman.
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Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM W. HINMAN, OF ELKHART, ILLINOIS.

IMPROVEMENT IN END-GATES FOR WAGONS.

Specification forming part of Letters Patent No. 133,646, dated December 3, 1872.

To all whom it may concern:

Be it known that I, WM. W. HINMAN, of Elkhart, in the county of Logan and in the State of Illinois, have invented certain new and useful Improvements in Wagons; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of an end-gate for wagons, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view of a wagon-box with the end-gate closed, and Fig. 2 is a longitudinal section of the same with the end-gate open.

A represents an ordinary wagon-box, and B is the end-gate of the same. On the outer side of the gate B are metal straps *a a*, secured and running up and down on the same. The lower ends of these straps form hooks *b b*, which are inserted in staples *e e* fastened to the rear edge of the bottom of the box, and together form the hinges upon which the gate may swing clear down for dumping. The hooks *b b* being open the gate can readily be lifted out of the staples when desired. The

gate is fastened to the sides of the wagon-box, when closed, by means of clasp-hinges *d d* attached to the gate, and closing over staples *i i* in the sides of the box, and held by means of pins *f f* passed through said staples. At each end of the gate B on the inner side are inward-projecting wings *C C*, the upper edges of which form arcs of a circle, and at the inner end of the same are formed hooks *h h* to catch on the pins *f f* when inserted in the sides of the wagon-box, and thus hold the end-gate B at the desired angle.

By this means the gate may be held at any desired angle from the bottom of the box, and when so held at an angle the wings *C C* prevent the coal, corn, or other substance in the wagon-box from falling out between the gate and the end of the box.

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

The end-gate B, provided with open hinges at its bottom and lap-hinges at its sides for connecting it detachably or adjustably to the wagon-body, when used with the wings *C C*, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 1st day of October, 1872.

WILLIAM W. HINMAN.

Witnesses:

L. D. DANA,
J. D. LESLIE.