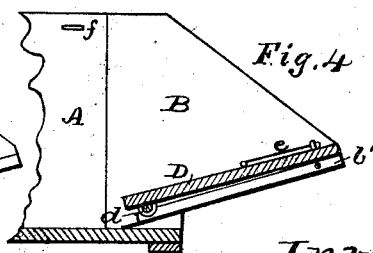
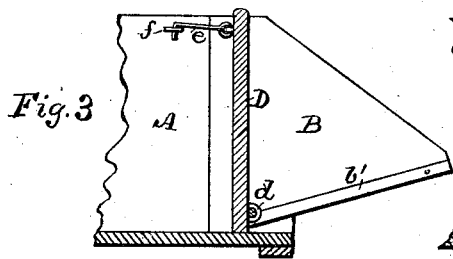
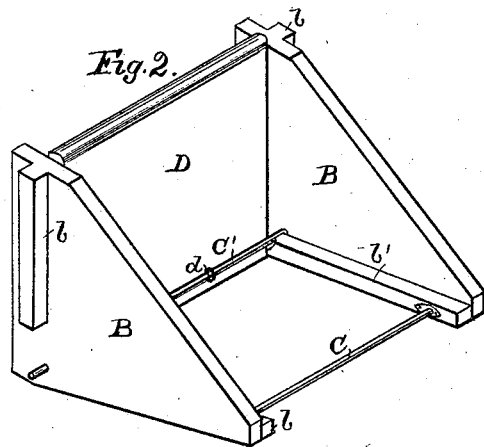
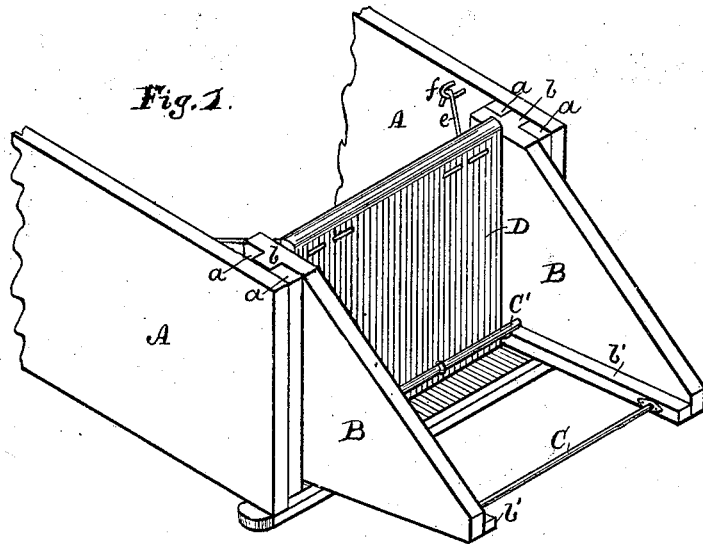


J. M. & J. H. KING.
End-Gate for Wagons.

No. 197,783.

Patented Dec. 4, 1877.



Witnesses:
A. M. DeLynn
D. J. Stuart

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Atty.

UNITED STATES PATENT OFFICE.

JAMES M. KING AND JONATHAN H. KING, OF SWAN CREEK, ILLINOIS.

IMPROVEMENT IN END-GATES FOR WAGONS.

Specification forming part of Letters Patent No. 197,783, dated December 4, 1877; application filed October 15, 1877.

To all whom it may concern:

Be it known that we, JAMES M. KING and JONATHAN H. KING, of Swan Creek, in the county of Warren and State of Illinois, have invented certain new and useful Improvements in Wagon-Body End-Gates and Scoop-Boards; and we 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 letters of reference marked thereon, which form a part of this specification.

Our invention relates to an improved construction of the end-gates of wagons intended for the transportation of grain in bulk, or of such other articles or material as is liable to fall out of the wagon on the removal or lowering of the end-gate for the purpose of unloading it with a shovel or scoop.

In the accompanying drawings, Figure 1 is a perspective view of a portion of the rear end of a wagon-body with our improved device attached thereto. Fig. 2 is a perspective view of the device detached from the wagon-body. Fig. 3 is a vertical section of the device with the end-board secured in vertical position. Fig. 4 is a similar view with the end-board turned down to form a scoop-board.

Referring to the parts by letters, A A represent the side-boards of a wagon-body, having at their rear ends and on their inner sides vertical slats *a a*, two on each side, arranged with a space between them, so as to form a groove, by means of which and correspondingly-shaped tongues *b b*, our end-gate device may be securely attached to the wagon-body.

B B are the side-boards of the device, triangular in form, or nearly so, as clearly shown by the drawings. The tongues *b b* project from their outer sides; and on their inner sides at the bottom horizontal slats or projecting ledges *b' b'* are formed, or otherwise secured thereto. The side-boards B are also connected together and braced by transverse rods C C'.

D is a board or gate, which fits between the side-boards B B, and is hinged to the rod C', as shown at *d*, so as to turn thereon, and be moved up or down, as desired. When moved to a vertical position, and secured by the hooks and staples *e f*, or by any other convenient fastening device, it operates as an ordinary hinged end-gate for the wagon.

When moved down to a horizontal position, or preferably to the inclined position shown by Fig. 4 of the drawings, it is supported by the ledges *b' b'*, and then forms an efficient scoop-board, operating, in connection with the side-boards B B, to prevent the escape or falling out of the contents of the wagon-body while being unloaded by a shovel or scoop.

The device may be attached to or removed from the wagon-body as easily as an ordinary end-gate, and when not desired for use it may be removed, and the ordinary end-gate substituted therefor, without change in the construction of either device.

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

1. The side-boards B B, having the ledges *b' b'*, operating in combination with the hinged end-gate D, substantially as and for the purpose specified.

2. The side-boards B B, united by brace-rods C C', and having the tongues *b b* operating in combination with the hinged gate D and wagon-body A, having the slats *a a*, substantially as and for the purpose specified.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

JAMES M. KING.
JONATHAN H. KING.

Witnesses:

THOMAS MCKEE,
W. B. RICHARDS.