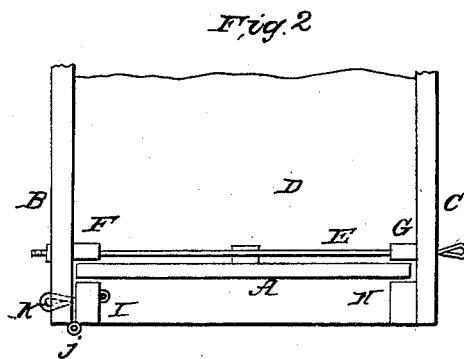
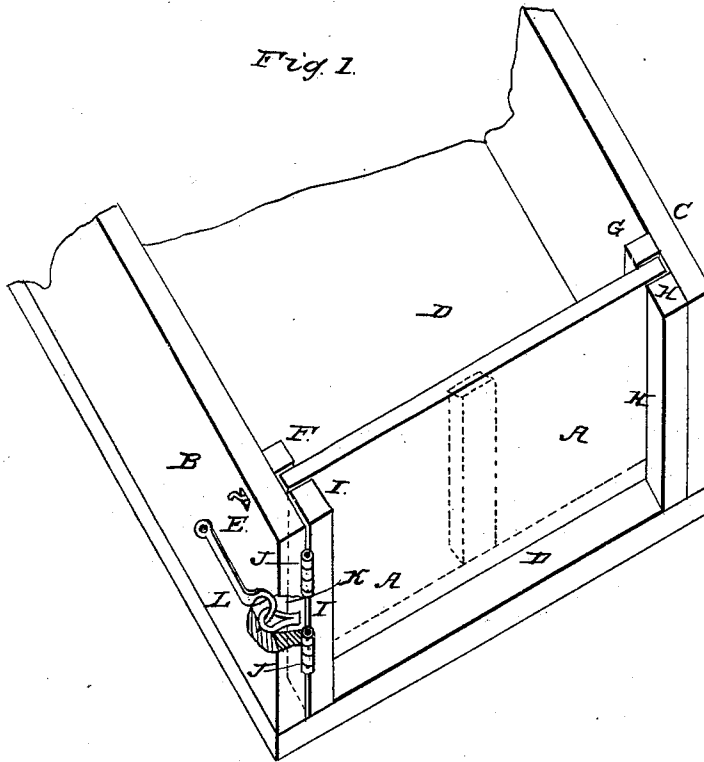


G. W. DILLER.  
Fastening for Wagon-End Gates.

No. 111,915.

Patented Jan. 21, 1871.



Witnesses  
L. S. Mabee  
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# United States Patent Office.

GEORGE W. DILLER, OF ODELL, ILLINOIS, ASSIGNOR TO HIMSELF AND  
GEORGE B. WOODBURY, OF SAME PLACE.

Letters Patent No. 111,915, dated February 21, 1871.

## IMPROVEMENT IN FASTENING END-BOARDS IN WAGONS.

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

### *To all whom it may concern:*

Be it known that I, GEORGE W. DILLER, of Odell, in the county of Livingston and State of Illinois, have invented a new and useful Improvement in Fastening End-Boards in Wagon-Boxes; 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 make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to a new and useful improvement in mode of fastening end-boards in the boxes of wagons, and consists in a hinged cleat and staple and hook, connected with the side of the box, arranged and operating as hereinafter more fully described.

In the accompanying drawing—

Figure 1 is a perspective view of an end-board fastened according to my invention.

Figure 2 is a top view.

Similar letters of reference indicate corresponding parts.

A is the end-board or gate to the wagon-box.

B and C are the sides, and D is the bottom of the box.

E is a rod extending through the sides to prevent spreading and hold the end-board down.

F and G are inside cleats, and H is an outside cleat, all of which cleats are fastened to the side-boards.

I is a cleat which is hinged to the side-board B, as seen at J, by butt-hinges, or in any other suitable manner.

K is an eye or staple which is firmly attached to I, which is made to pass through an orifice in the side B when the cleat is turned round upon its hinge against the end-board, as seen in fig. 2.

L is a hook on the outside of the side-board B, which hooks into the eye or staple K on the outside, and thereby holds the cleats firmly to the side-board, as seen in fig. 2. This effectually holds the cleat in place and completes the fastening.

By removing the hook the cleat is readily turned back, which allows the end-board to be removed.

This is a simple and most effectual mode of fastening end-boards to wagon-boxes, and its advantages must be apparent to all.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

In combination with the end-board of a wagon-box, the hinged cleat I, staple or eye K, and hook L, arranged to operate substantially as and for the purposes herein shown and described.

GEORGE W. DILLER.

Witnesses:

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