

# STOCKING & GREENE.

Wagon End-Gate.

No. 109,966.

Patented Dec. 6, 1870.

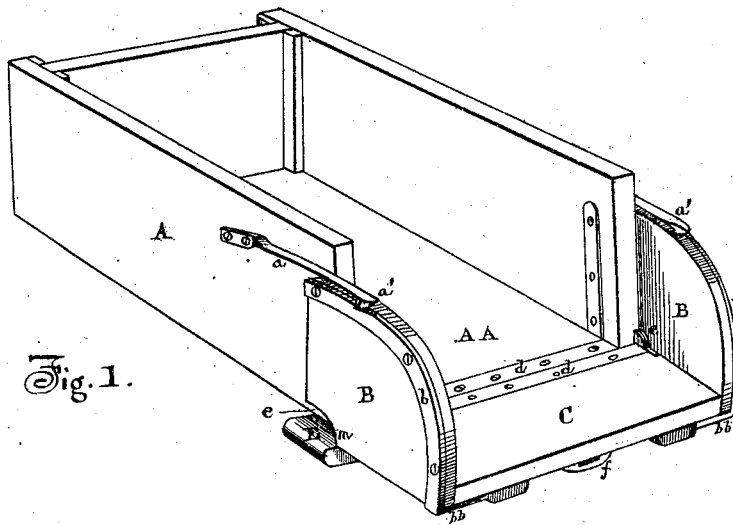


Fig. 1.

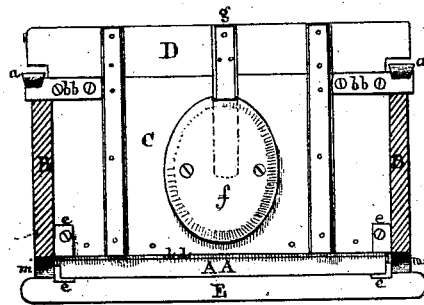


Fig. 2.

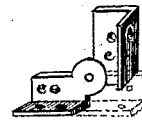


Fig. 5.

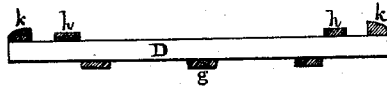


Fig. 3.

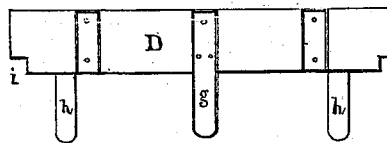


Fig. 4.

Witnesses  
William L. Moss Jr.  
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Radwick & Stocking  
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Inventors

# United States Patent Office.

RODERICK F. STOCKING AND CALVIN P. GREENE, OF LAWN RIDGE,  
ILLINOIS.

Letters Patent No. 109,966, dated December 6, 1870.

## IMPROVEMENT IN END-GATES FOR WAGONS.

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

*To all to whom it may concern :*

Be it known that we, RODERICK F. STOCKING and CALVIN P. GREENE, both of Lawn Ridge, in the county of Marshall and in the State of Illinois, have invented a new and improved End-Gate for Wagons; 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 perspective view;

Figure 2, an end view;

Figure 3, a superficial view of extension of top-board of gate;

Figure 4, a longitudinal view of the latter; and

Figure 5, a view of hinge.

Like letters in the different figures of the drawing indicate like parts.

This invention is an improvement in the joints of those kinds of wagon-gates and platforms which are hinged to the bottom of the wagon, and consists in the construction and arrangement of metal strips and hinges with the bottom ends of the gate and the ends of the bottom of wagon, so as to form a close-fitting joint as will at no position of the gate allow of the passage of the smallest grain, and consequently avoiding the clogging of the gate at said joint.

A represents the wagon-side.

A A, the bottom.

B, the side-board of the gate and platform of a quadrant shape, but hollowed, at *m*, near the hinge *e*, to avoid striking the brace-bar E.

This side-board is strengthened by the segmental cleat *b*, which is returned at *b b*, beneath the platform C, and firmly screwed to the side and platform.

There is a notch, *a'*, in the cleat *b* for retaining the gate when extended, into which notch the spring-hook *a* falls.

C, the platform, which is a part of the sides B B, and is hinged to the wagon-bottom A A by the hinge *e*, (shown in perspective at fig. 5,) which clasps the outer edge of the wagon-bottom and the outer edge of the segmental side.

Two metal strips *d d* form the lining of the joint, one of them being fastened on either side of the latter, so as to make a perfect joint.

Beneath the joint and fastened to the wagon-bottom is a brace-bar, E, which covers the joint at that place and strengthens the joint of platform.

A plate, *f*, screwed to the back of the platform, strengthens the latter and forms a slot or opening at the same time next to the edge of the gate for the insertion of the cleat *g* of the extension top D.

D is an extension top, having cleats *g h h*, which pass on either side of the platform, and is held by cleat *g* being inserted into the slot of the plate *f*.

The operation of this invention is as follows:

The gate, when closed, is retained by the spring-hook *a*, which clasps the segmental cleat at *b b*. When opened the hook retains the gate horizontally by entering the notch *a'* in the former.

The metal strips *d d* forming the longitudinal joint remain intact at all positions of the gate, preventing the passage of all grain, and form a clear surface, as well on account of the absence of hinges, often placed at this point, as by reason of the close union of platform with wagon-bottom, a great and continual objection to most platforms.

Having thus fully described my invention,

What I claim therein as new, and desire to secure by Letters Patent, is—

The combination of the hinges *e e*, constructed and arranged, as described, upon the platform and bottom end of the wagon, with the metallic strips *d d* and spring-hooks *a a*, the whole arranged substantially in the manner and for the purpose as herein shown and set forth.

In testimony that we claim the foregoing, we have hereunto set our hands this 18th day of June, 1870.

RODERICK F. STOCKING.  
CALVIN P. GREENE.

Witnesses:

WILLIAM L. MOSS, Jr.,  
HENRY W. WELLS.