

STOCKING & GREENE.

Wagon End-Gate.

No. 109,965.

Patented Dec. 6, 1870.

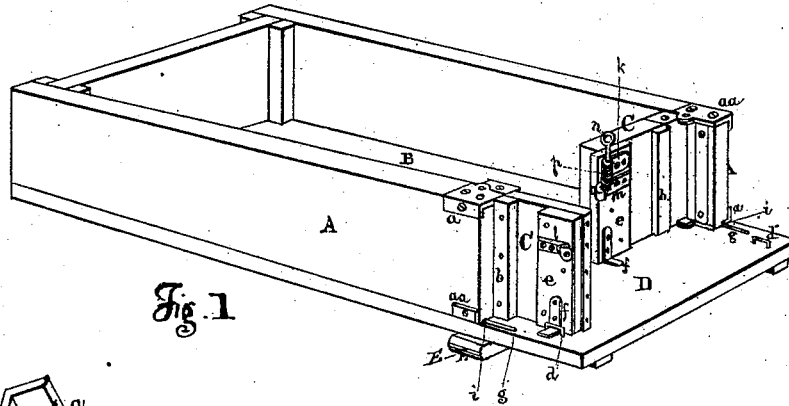


Fig. 1

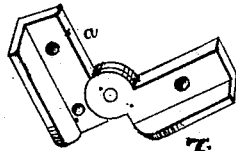


Fig. 3

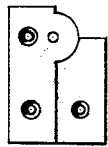


Fig. 4

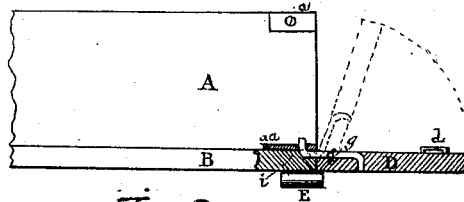


Fig. 2

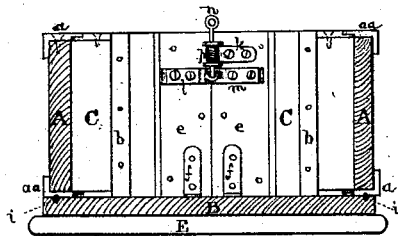


Fig. 5



Fig. 6



Fig. 7

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

Letters Patent No. 109,965, 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 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, a side elevation of the end-gate as attached to the end of a wagon;

Figure 3, a view in detail in perspective of the hinge of gate, showing it opened;

Figure 4, side view in detail of hinge, showing it closed;

Figure 5, an end view of wagon and end-gate;

Figure 6, a view in detail of spring bolt-holder; and

Figure 7, views in detail of hasp and staple.

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

This invention relates to an improved mode of hanging folding end-gates which are in two parts, and to a spring bolt co-operating with an eye and a hasp for securing the gates, which secures them immediately on closing them; also, to the method of adjusting and attaching the platform for the gates to open upon.

A represents the wagon sides.

B, the bottom.

C C, the end-gates, made folding, each being hung upon a hinge, *a*, at the bottom and at the top of the same; a flange on that part of the hinge which is screwed to the wagon-side embraces the latter, and in which another screw is inserted for further securing it.

The hinges are similar as to their joints to a "carpenter's rule," as seen more in detail in figs. 3 and 4.

Two sets of hinges are required, a pair to each gate, that securing the upper part of the gate being similar in construction to the one forming the hinge at the lower corner of the opposite gate, and *vice versa*.

The gate is strengthened by the cleats *b* and *c*, that at *b* forming a strong support for the gate when the same is opened, and that at *c* carries the hook *m* of hasp, and the spring bolt *n*, with its support *k*, and the shoe *f*.

The left-hand gate carries the eye *l* of hasp, and a shoe, *f*.

The cleats *b* *c* may be fastened with screws or similar holders.

The spring bolt *n* slides in eyes placed one above the other at the end of a casting, the bolt being made to press downward by means of the spiral spring *p* properly attached to the bolt, the point of the bolt falling into the eye of the hasp *l* on the other gate, which passes through a slot in the opposite hasp *m* beneath the bolt.

D is a platform for forming a place on which to insert a shovel in unloading small produce, and is of the usual shape, but attached at pleasure to the wagon end by means of hooks, *g* *g*, at the ends of the inner sides, said hooks curving slightly upward above the line of the surface of the platform enough to prevent the dislocation of the latter from its junction with the wagon bottom.

The ends of the hooks are inserted in the corresponding sockets *i* *i* cut vertically in either of the lower hinges *a* *a*, the platform, of course, being held perpendicularly or slanting to admit the hooks into the sockets.

The staples *d* *d* receive the shoes *f* *f* of the gates.

E is a cross-brace, securely fastened to the wagon end, covering the joint of the latter and the platform.

The operation of this invention will be obvious: by the peculiar construction and arrangement of the hinges the gates form a perfect joint with the sides of the wagon, so that it is impossible for small grain or dirt to pass through or otherwise clog the gate when closing it.

Having thus fully described our invention,

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

The combination of the hinges *a* *a*, constructed and arranged as described upon the gates C C and sides of the wagon, with the bolt or fastener *n* and the removable platform D, 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 6th day of June, 1870.

RODERICK F. STOCKING.

CALVIN P. GREENE.

Witnesses:

JOHN ANTHONY,  
HENRY W. WALLS.