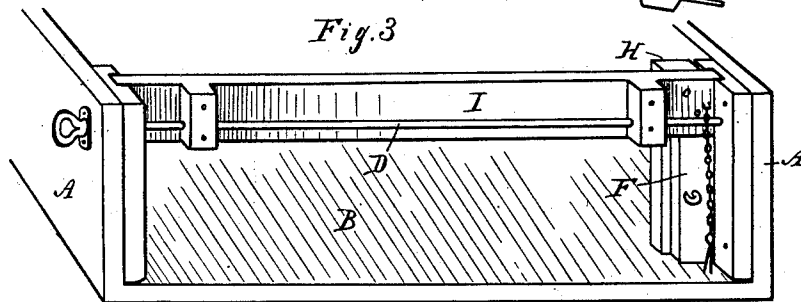
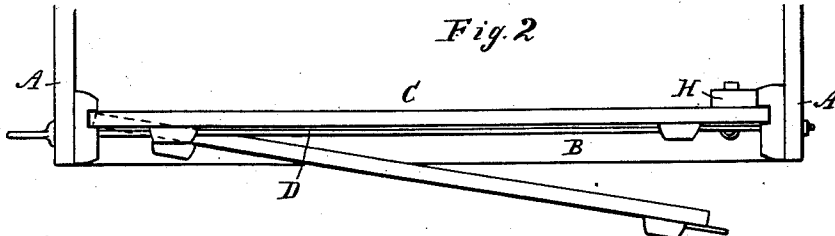
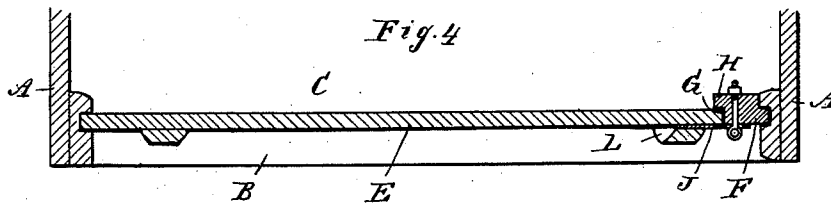
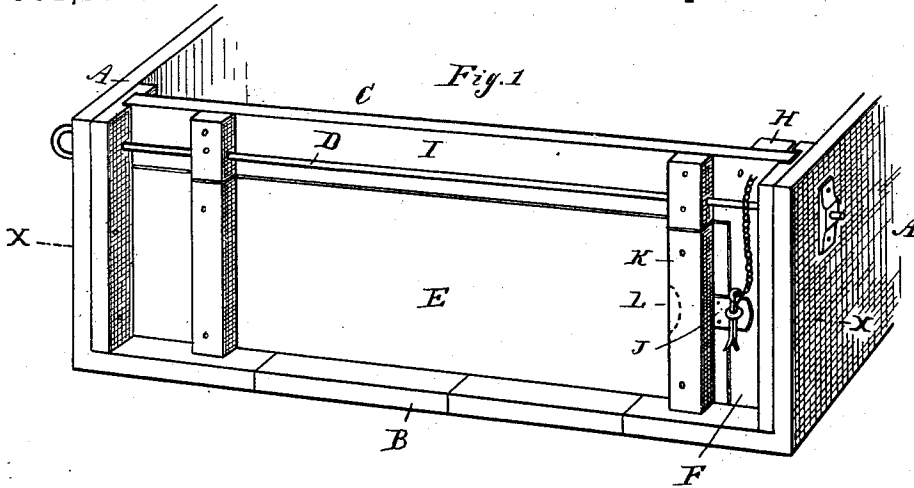


(No Model.)

M. S. TYLER.
END GATE FOR WAGONS.

No. 361,971.

Patented Apr. 26, 1887.



Attest:
John Schuman,
Charles H. Hest.

Inventor:
Morris S. Tyler.
by his Atty
Thos. S. Sprague

UNITED STATES PATENT OFFICE.

MORRIS S. TYLER, OF LANSING, MICHIGAN, ASSIGNOR TO THE CAPITAL WAGON COMPANY, OF SAME PLACE.

END-GATE FOR WAGONS.

SPECIFICATION forming part of Letters Patent No. 361,971, dated April 26, 1887.

Application filed September 23, 1886. Serial No. 214,346. (No model.)

To all whom it may concern:

Be it known that I, MORRIS S. TYLER, of Lansing, in the county of Ingham and State of Michigan, have invented new and useful Improvements in End-Gates for Wagons; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to certain new and useful improvements in end-gates for wagons; and the invention consists in providing an end-gate of known construction with an independently-movable section so arranged that it answers all purposes for which movable end-gates are ordinarily designed; and the invention further consists in the peculiar construction, arrangement, and combination of the parts, as hereinafter described.

In the drawings which accompany this specification, Figure 1 is a perspective view of my improved end-gate. Fig. 2 is a plan showing the movable section of the end-gate in a partly-opened position. Fig. 3 is a perspective view with the movable section of the end-gate entirely removed. Fig. 4 is a horizontal cross-section on the line *xx* in Fig. 1.

A are the sides, B the bottom, and C the rear end-gate, of an ordinary wagon-box. The end-gate C is removably secured to the wagon-box by engaging into suitable mortises formed on the inner face of the side-boards, and is held in position by the rod D, all arranged in a manner well known in the construction of such end-gates.

My invention consists in providing said end-gate with the independently-movable section E, which forms all the lower portion of said end-gate, with the exception of a small portion, F, at one end, which is left connected with the top portion, I, of the end-gate. This portion is provided with a rabbet, G, formed by securing the cleat H thereto, or in any other desired manner, and by means of a suitable fastening—such as the fastening J, shown in the drawings—the movable section E of the end-board is secured in position, so that whenever it is desired to remove it for unloading farm produce from the wagon it may be done

by simply opening the fastening and pulling the section E out of the mortise into the side-board, into which its opposite end is engaged. To facilitate this operation, the section E is provided with a suitable hand-hold—such as the one marked L—provided by cutting away a portion of the cleat K.

It will be seen that the ordinary style of end-gate, whether removably secured or not, may be easily provided with such a movable section by simply cutting the gate, as shown, and providing it with the rabbet G and fastening J.

In manufacturing my end-gate I preferably make the standing portion F an integral part of the cleat H, as it makes the gate somewhat stronger on account of the grain of the wood running vertically. In that case the rabbet G is then formed on the cleat H, which latter must be strongly bolted to the top rail, I, of the end-gate.

I am aware that an end-gate for wagons has been made with a slide moving in the direction of the length of the gate and fitting in between cleats on the side of the wagon-box, and provided with springs and locking means, and disclaim such construction. I dispense with the springs necessary in the above construction, so that the ordinary style of end-gate may be easily provided with my improvement.

What I claim as my invention is—

1. An end-gate provided with an independently-movable section, said section forming the lower portion of the end-gate, with the exception of a small standing portion at one end integral with said gate, all arranged substantially as described.

2. The combination, with the end-gate C and vertical portion F, formed integral therewith, of the independently-movable section E, cleat H on said vertical portion forming a rabbet, G, and a fastening, J, for securing the section E to said portion F, substantially as and for the purpose specified.

MORRIS S. TYLER.

Witnesses:

N. B. JONES,
J. N. ALEXANDER.