

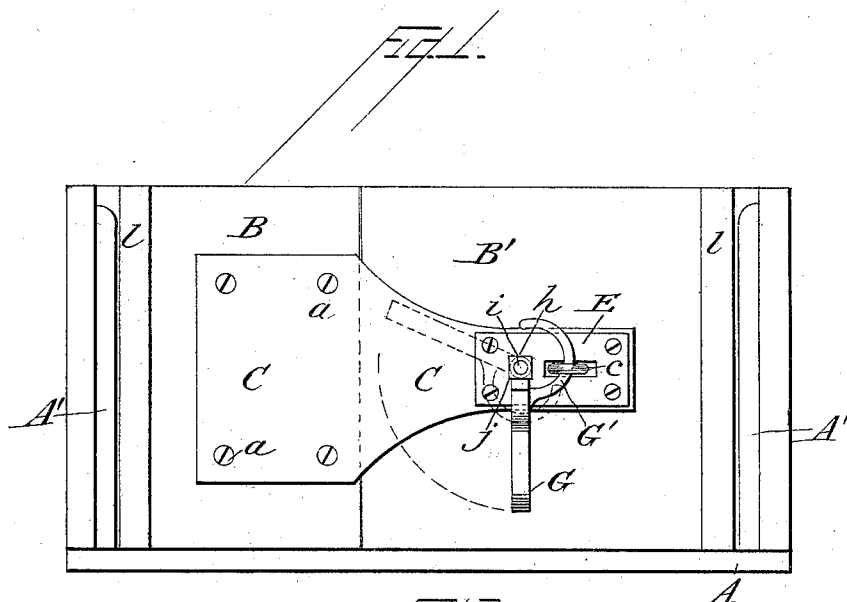
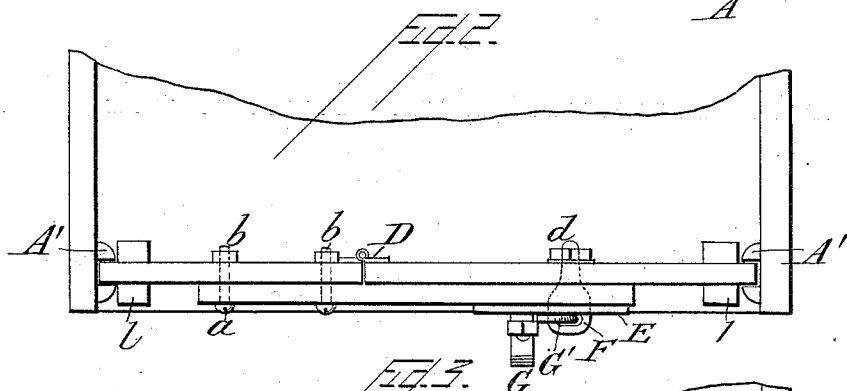
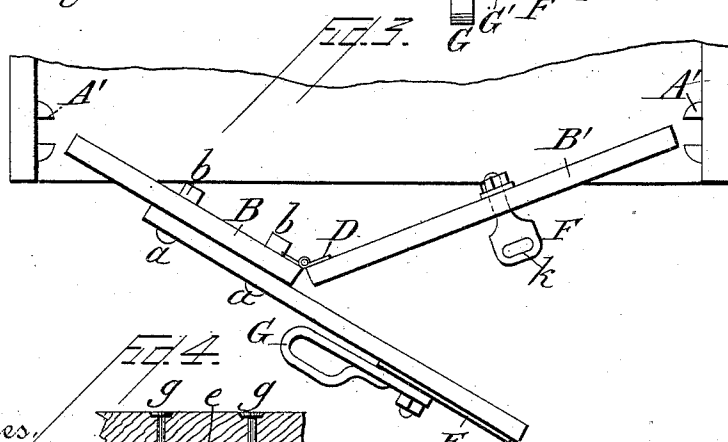
(No Model.)

W. H. CREED.

END GATE.

No. 398,237.

Patented Feb. 19, 1889.



Witnesses,

J. H. Schott
Chas. C. Parker

Inventor,

William H. Creed
per John C. Parker
Attorney,

UNITED STATES PATENT OFFICE.

WILLIAM H. CREED, OF MANILLA, INDIANA, ASSIGNOR OF ONE-HALF TO
JOHN T. JONES, OF SAME PLACE.

END-GATE.

SPECIFICATION forming part of Letters Patent No. 398,237, dated February 19, 1889.

Application filed October 27, 1888. Serial No. 289,290. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. CREED, a citizen of the United States, residing at Manilla, in the county of Rush and State of Indiana, have invented certain new and useful Improvements in End-Gates; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention has reference to an end-gate fastening for use with the tail-boards of carts, wagons, or other vehicles, the object of the invention being to provide a durable and cheap fastening, simple in its construction, easy of manipulation, and one which is not liable to get out of order by reason of any undue strain or other hard usage to which it may be subjected; and it consists in the construction, arrangement, and combination of parts, substantially as will be hereinafter described, and then more particularly pointed out in the claims at the end of the specification.

In the accompanying drawings, illustrating my invention, Figure 1 is a side elevation of my improved end-gate fastener, showing it applied to the tail-board of a wagon or other vehicle. Fig. 2 is a top edge view showing the end-gate in a fastened position. Fig. 3 is a similar view showing the end-gate in an unlocked position. Fig. 4 is a detail sectional view of a modified form and manner of securing the receiving-bolt to the tail-board.

Similar letters of reference designate corresponding parts throughout the several figures.

In the drawings, A represents the body of a cart, wagon, or other vehicle provided at its end with the usual strips or cleats A' A', adapted to receive the ends of the hinged tail-board B B'.

D D represent the hinges. The part B of the tail-board is provided with a flat plate, C, of wood or other suitable material, securely fastened thereto by means of screw-threaded bolts a, which pass entirely through the plate C and part B, and are held in place by means of the nuts b. This plate C is clearly shown in Fig. 1. The part which is secured to the piece B is of rectangular form;

but the projecting part of said plate, which overlaps the plate B', gradually narrows, as shown, and is provided near its end with a horizontal slot coincident with the slot in the wearing-plate.

E represents this wearing-plate, which is attached to the narrow part of the plate C by any suitable means. It is of rectangular form and provided with a slot, c, similar in size and shape and coincident with the slot in the plate C. This slot c and the slot in the plate C permit the passage therethrough of the receiving-bolt F, as shown in Figs. 1 and 2. The screw-threaded end of this receiving-bolt passes entirely through the portion B' of the tail-board, and is secured on the opposite side by means of a nut, d. In Fig. 4 I have shown a modified form of this receiving-bolt, having its inner end, e, extending partially through the part B' and provided with the flanges f f, adapted to receive pins g g, which pass through the part B', and are riveted securely on the opposite side thereof.

G represents the gravity-latch. Formed on the inner end, i, of this latch is a perforation, by means of which the latch is pivoted to a pin or bolt, h, which bolt extends through the wearing-plate and through the plate C, and is firmly fastened thereto. After the latch has been placed on the pin h, it is held in place by means of a nut, j, or other suitable fastening. This latch G is of a peculiar construction. It is provided on one end with a loop forming a hand-hold adapted to receive the hand of the operator for the purpose of unlocking or fastening the same. Just below the nut i, and integral with the main part of the latch, is a semicircular extension, G', which is adapted to work in the slot k of the receiving-bolt F. The outer ends of the tail-board are provided with the usual strips or cleats, l l.

The operation of my improved end-gate fastener is as follows: When it is desired to lock the same in position, all that needs to be done is to place the ends of the tail-board in the grooves formed by the cleats A' A' and force the hinged portions inward, meanwhile holding the handle G in the position shown in dotted lines in Fig. 1, where it is held so

that the extreme end of the semicircular extension G' of the latch will be below the eye of the receiving-bolt F. As soon as the large plate C and wearing-plate E are in the position where the eye of the receiving-bolt projects through their longitudinal slots, the operator pushes the handle into the position shown in full lines in Fig. 1, where it will be held by reason of its own weight. When it is desired to remove the tail-board for the purpose of emptying the contents of the wagon or for any other reason, the operator takes hold of the handle end of the gravity-latch and presses it upward in the direction of the dotted lines in Fig. 1 until the semicircular extension G' is clear of the receiving-bolt, when the hinged tail-board will be forced outward by the weight of the contents of the wagon pressing against the same.

From the above description it will be seen that if the latch is pivoted loosely, so as to work freely on the pin or bolt h, and the slot or opening k in the receiving-bolt is made large enough, the latch will readily fall into place of its own accord if the handle is held in the position shown in dotted lines in Fig. 1, because the weight of the handle part of the latch is heavier than that of the semicircular extension G'.

The advantages of my improved end-gate fastener over the devices in common use employed for this purpose lies in the fact of its simplicity of construction and ease and quickness of manipulation.

I am aware that it is not new to construct a tail-board consisting of two sections hinged together, said tail-board being provided with a fastening device for securing the overlapping end of one section to the other section. This construction, therefore, I do not broadly claim as new with me.

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

1. In an end-gate, the combination of the

tail-board consisting of hinged sections, the plate secured to one of said sections and overlapping the other, said overlapping end being slotted, a bolt on said other section entering said slot, and a catch on the plate adapted to engage said bolt for the purpose of securing this end of the plate to the tail-board, substantially as described.

2. In an end-gate, the combination, with the tail-board composed of two sections hinged together, of a plate suitably secured at one end to one of the hinged portions and provided at its other end with a wearing-plate and latch, said wearing-plate being provided with a slot coincident with a slot in the large plate, said slot adapted to receive the projecting end of the bolt on the end-gate, the whole being firmly secured together by means of the extension on the latch which enters the eye of the receiving-bolt, substantially as described.

3. The combination of the sectional tail-board, the plate secured to one section thereof and overlapping the other, a bolt on the other section projecting through a slot in the overlapping end of the plate, and a fastener on the plate, consisting of a pivoted arm having the curved extension adapted to engage the receiving-bolt, substantially as described.

4. The combination of the end-gate having the hinged sections B B', plate C, secured to the section B, the wearing-plate E, secured to the overlapping end of the plate, said wearing-plate E and overlapping plate being slotted, the fastener on the wearing-plate, consisting of the looped and pivoted arm G, having a curved extension, G', and the receiving-bolt on the section B', having eye k, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM H. CREED.

Witnesses:

JASPER HESTER,
EVAN T. JONES.