

(No Model.)

J. A. ISAACSON.
WAGON END GATE.

No. 507,620.

Patented Oct. 31, 1893.

Fig. 1.

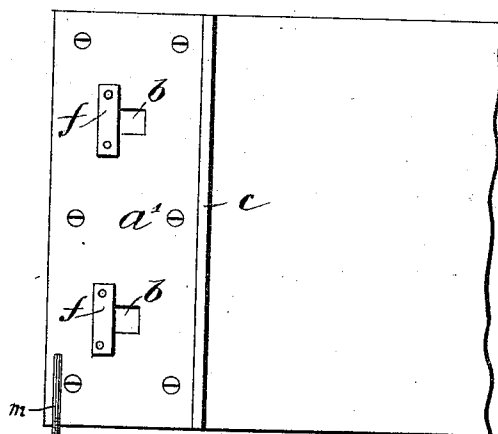


Fig. 2.

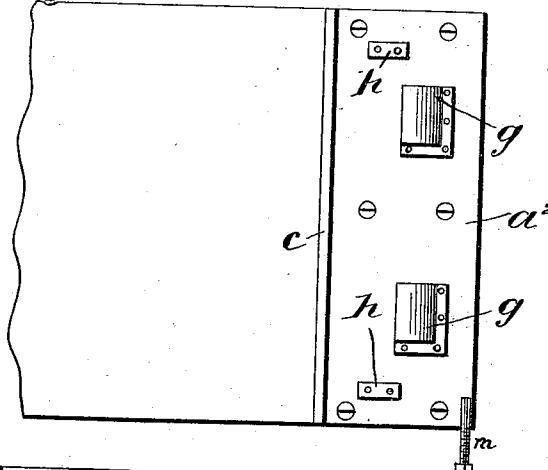
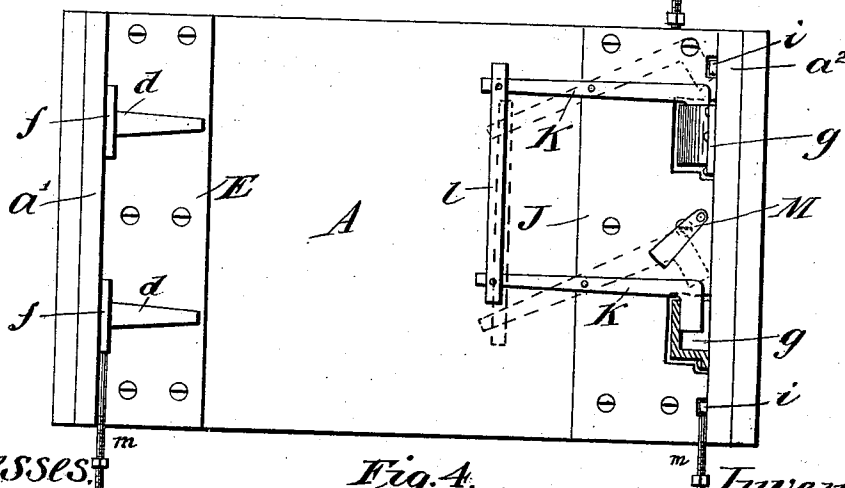
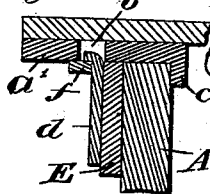


Fig. 3.



Witnesses:
Chas. Gleason
Ed. Chubb

Fig. 4.



Inventor:
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By E. H. Gleason
his atty

UNITED STATES PATENT OFFICE.

JOHN A. ISAACSON, OF MOLINE, ILLINOIS.

WAGON END-GATE.

SPECIFICATION forming part of Letters Patent No. 507,620, dated October 31, 1893.

Application filed April 25, 1893. Serial No. 471,841. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. ISAACSON, a citizen of the United States, residing at Moline, in the county of Rock Island and State of Illinois, have invented certain new and useful Improvements in End-Gates for Wagons; 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.

My invention relates to "endgates" for wagons and the object of my improvement is to produce an endgate to obviate the use of rods, hooks and such like devices commonly used to keep and retain endgates in place. I attain this object by the devices as shown in the accompanying drawings, in which—

Figure 1 is an upright sectional end view of the left inside of the side board of a wagon box with device attached thereto for holding the end of endgate. Fig. 2 is a similar view of the right side of wagon box showing attachment thereto for locking right end of endgate. Fig. 3 is an upright view of the endgate with devices and attachments thereto to engage and lock with side section of a wagon box. Fig. 4 is a detail sectional view of one end of the gate.

Similar letters refer to similar parts throughout the several views.

The devices and attachments comprised in the combination of my invention consist of metal plates a' , a^2 , which are attached to the inner sides at the outer end of the side boards and to the bed or bottom of wagon box in an upright position, having at their outer edge a rod or bolt m to pass through the bed or bottom of the box, holding by screw and nut. The inner edge of said plates are turned at a sharp angle n forming a cleat or brace c to the endgate. Plate a' has two open slots b , b , at equi-distance from the cleat or brace c to admit the swaged head of lugs d , d , attached to and forming part of plate E , on endgate A . Lugs d , d , are fitted to enter slots b , b , in a free manner when endgate A stands at an angle of about forty-five degrees, but when endgate A is closed, lugs d , d , have their full

bearing on the inner surface of metal caps f , f , covering the upper parts of slots b , b .

Plate a^2 is attached to the inner side of the right hand board of box in similar manner to a' , is provided with two capped catches g , g , equi-distant from cleat or brace c , fitted to receive and hold latches K , K , also has guide bars h , h , corresponding to horizontal slots i , i , in plate J . Plate J is attached to the right hand end of endgate A and has attached thereto, by pins or bolts, two levers or latches k , k , connected by bar l , so arranged as to work both levers as one latch, each of the levers forming and working as one in the capped catches g , g , and having the inner end of each turned at a sharp angle to fit and work freely in locking and unlocking the endgate. The stop or button m , is placed above the opening in one of the catches g , g in such position as to be out of way of the latch k , k , when being entered in catches g , g , and can be turned downward over the latch to prevent it from getting out of place.

In disconnecting the endgate from the wagon box a downward pressure on bar l , releases the levers or latch from catches g , g , when a pull of about forty-five degrees backward releases lugs d , d , from slots b , b , and the endgate A is free. In making connection the endgate is placed at an angle of about forty-five degrees the lugs d , d , will enter slots b , b , and a pressure forward brings latches k , k , to engage catches g , g , and the connection is made complete.

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

1. In combination with the wagon having the slots b , b on one side and the socket g on the other, the end gate having the lugs d , d on one end adapted to the slots in the side and the latch lever K pivoted to the end gate to swing vertically in engaging and disengaging the socket, substantially as described.

2. In combination, the wagon having the slots b , b , on one side and the sockets on the other together with the guide bars h projecting in from said side and the end gate hav-

ing lugs *d, d* to engage the slots *b, b*, and a
vertically swinging lever to engage the socket
said end gate having the horizontal slots *i, i*
to engage the guide bars *h*, substantially as
5 described.

3. An endgate for wagons, having two
swage head lugs, two levers with sharp an-
gle heads or clutches, forming a latch by con-
necting bar, working in unison in locking and

latching in slots and catches in metal plates, 10
attached to a wagon box as specified &c.

In testimony whereof I have affixed my sig-
nature in presence of two witnesses.

JOHN A. ISAACSON.

Witnesses:

RUFUS A. SMITH,
N. J. BLACKMON.