

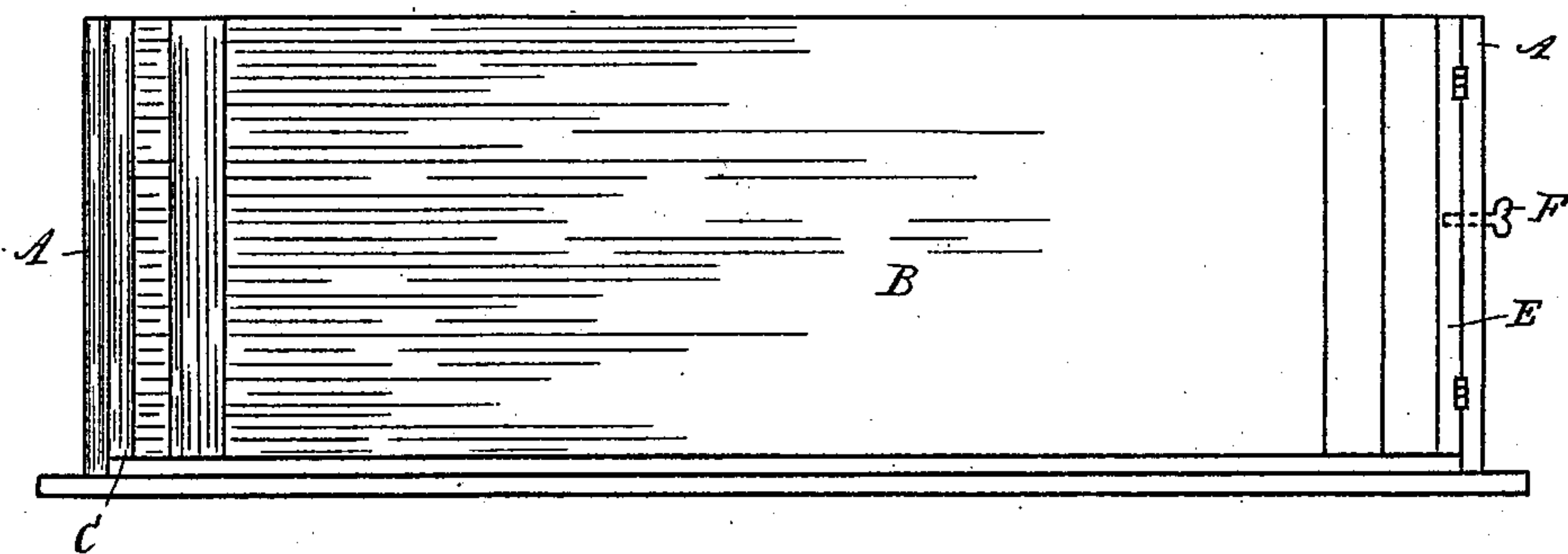
(No Model.)

C. A. GALE.  
WAGON END GATE.

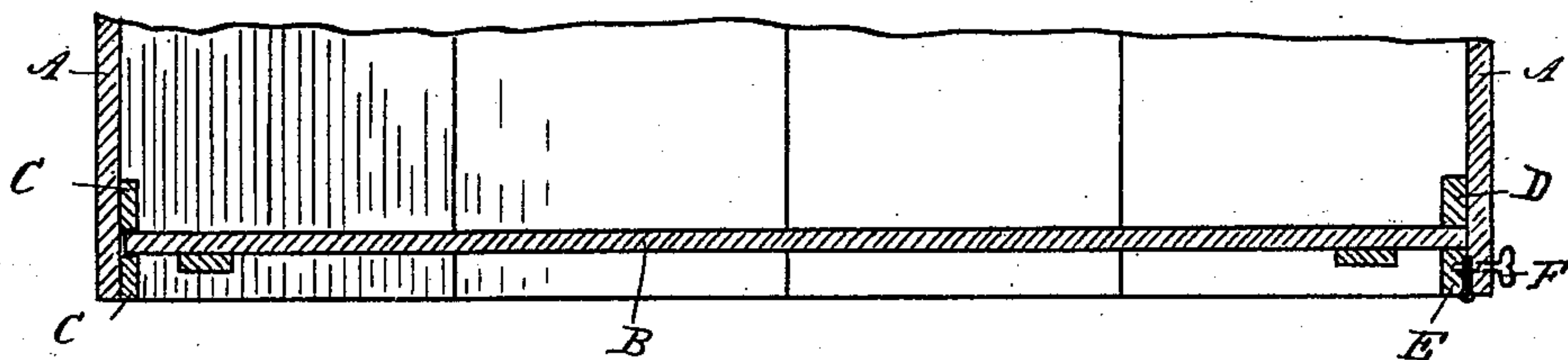
No. 326,420.

Patented Sept. 15, 1885.

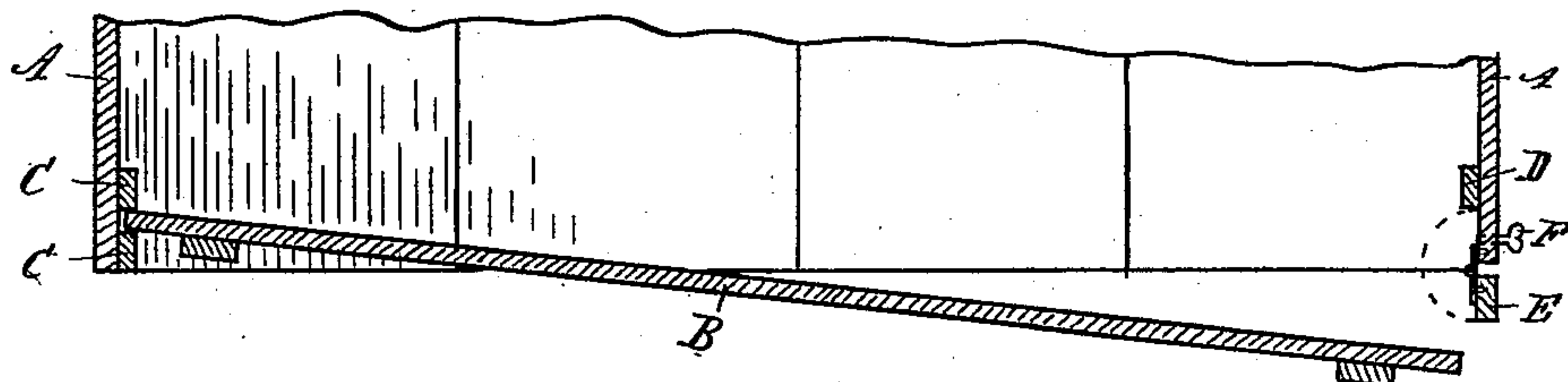
*Fig. 1*



*Fig. 2*



*Fig. 3*



Attest:  
John Schuman  
*[Signature]*

Inventor:  
Clarence A. Gale.  
by his Atty  
*[Signature]*

# UNITED STATES PATENT OFFICE.

CLARENCE A. GALE, OF BIG RAPIDS, MICHIGAN.

## WAGON END-GATE.

SPECIFICATION forming part of Letters Patent No. 326,420, dated September 15, 1885.

Application filed July 9, 1885. (No model.)

*To all whom it may concern:*

Be it known that I, CLARENCE A. GALE, of Big Rapids, in the county of Mecosta and State of Michigan, have invented new and  
5 useful Improvements in End-Boards 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.  
10 tion.

This invention relates to certain new and novel improvements in end boards or gates for wagons; and the invention consists in the peculiar construction and arrangement of  
15 parts for securing the gate in its closed position, all as more fully hereinafter set forth.

Figure 1 is an end elevation of a wagon-box provided with my improvement. Fig. 2 is a horizontal section through the same with the  
20 gate closed. Fig. 3 is a similar view with the gate partially removed.

In the accompanying drawings, which form a part of this specification, A represents the side boards of a wagon-box of any of the known  
25 constructions, and B its rear end-gate. Near the rear end of one of the side boards, and upon the inner face thereof, are rigidly secured the cleats C, between which one end of the gate B is inserted when such gate is closed. Near  
30 the rear end of the opposite side board is secured rigidly a cleat, D, while to the end of such side boards is pivotally hung or hinged a cleat, E, which, when it is in its closed position, as shown in Figs. 1 and 2, folds inwardly  
35 against the outer face of the gate near the end, and is secured in such position by a suitable thumb nut or bolt, F, which passes through the side board and is screwed into a coincident hole or nut in the edge of the cleat, as is  
40 shown in dotted lines in the figures. This thumb nut or bolt F should preferably be secured in the side board in such a manner that it could not be lost out accidentally when the

gate is opened; but as there are many ways in which this can be done I do not wish to enter  
45 into a description or illustration thereof in this application.

It will readily be observed, supposing the gate or end-board be out, that by inserting one end between the two cleats C upon one  
50 side of the box, then pushing the other end in until it rests against the cleat D, then by folding in the hinged cleat E and securing it by means of a bolt, as above described, the end-board is held against accidental displacement, and by a device that is so simple in its  
55 construction that it can readily be removed as occasion may require.

I am aware of Patent No. 111,915, of 1871, in which three cleats are shown stationary and  
60 secured to the side board, and a single cleat is hinged to one of the side boards. In these respects the device is similar to mine; but in that case a hook and eye was relied upon to hold the hinged cleat in position to secure the  
65 end-gate. The hook was liable to be jarred out of engagement with the eye and release the end-gate. I provide a very secure means for holding the cleat in a locking position. My thumb-screw F has a firm bearing in the side  
70 board, and obtains a very secure hold on the cleat when the same is closed inward. Upon this feature rests the gist of my invention.

What I claim is--

The combination, with the side boards, A, 75 having stationary cleats C C D. of the hinged cleat E, and the thumb-screw F, seated in the side board, and adapted to engage the hinged cleat when the latter is folded inward, the whole constructed and adapted to serve with  
80 an end-gate, B, as set forth.

CLARENCE A. GALE.

Witnesses:

E. H. EVANS,  
D. C. MORRILL.