

S. F. ROBERTSON.
End-Gates for Wagons.

No. 139,974.

Patented June 17, 1873.

Fig. 1.

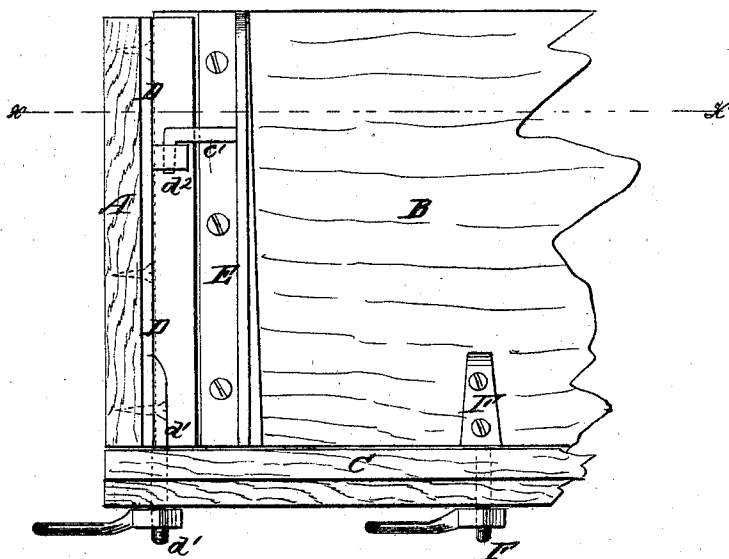
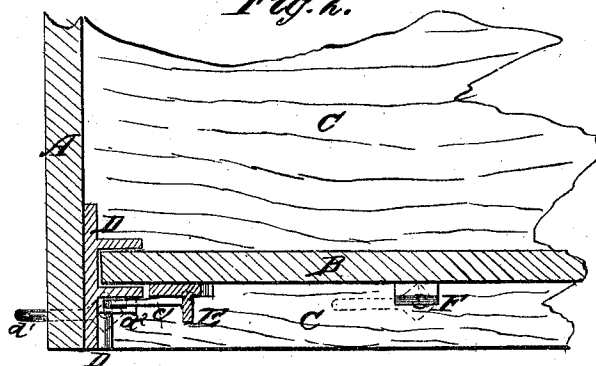


Fig. 2.



Witnesses:
P. C. Gatchell,
C. Sedgwick

Inventor:
S. F. Robertson
PER Munn & Co.
Attorneys.

UNITED STATES PATENT OFFICE.

STEPHEN F. ROBERTSON, OF ROCKFORD, ILLINOIS.

IMPROVEMENT IN END-GATES FOR WAGONS.

Specification forming part of Letters Patent No. **139,974**, dated June 17, 1873; application filed October 19, 1872.

To all whom it may concern:

Be it known that I, STEPHEN F. ROBERTSON, of Rockford, in the county of Winnebago and State of Illinois, have invented a new and useful Improvement in Wagon-Box, of which the following is a specification:

Figure 1 represents a part of the rear end of a wagon-box to which my improvement has been applied. Fig. 2 is a detail horizontal section of the same, taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to improve the construction of wagon-boxes so as to make them stronger and more durable, and at the same time more convenient in use; and it consists in the combination of parts as hereinafter described.

A represents a side board, B an end board, and C the bottom board, of a wagon-box. To the inner surface of the side boards A at their ends is attached a plate, D, of malleable iron, which is cast with two flanges upon its outer side to form a groove to receive the end of the end board B. Upon the lower end of the plate D is cast a bolt, *d*¹, which passes down

through the bottom board C and through the cross-bar placed beneath said bottom boards, and has a hand or lever-nut screwed upon it. Upon the outer flange of the plate D, near its upper end, is formed an eye, *d*², to receive the hook *e*¹ cast upon the malleable iron cleat E attached to the end board B, and which may be made light and at the same time strong by having a flange or rib cast upon it. F is a bolt attached to the end board B, and which passes down through the bottom board C and the cross-bar, and has a hand or lever nut screwed upon its lower end.

By this construction the parts of the wagon-box will be much more firmly held together than when the ordinary wooden cleats and cross-rod are used.

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

The combination of the bolt F and its hand-nut with the end board B, cleat E, hook *e*¹, plate D, eye *d*², and side board A, as described.

STEPHEN F. ROBERTSON.

Witnesses:

WM. VAN ARNAM,
THOMAS W. COLE.