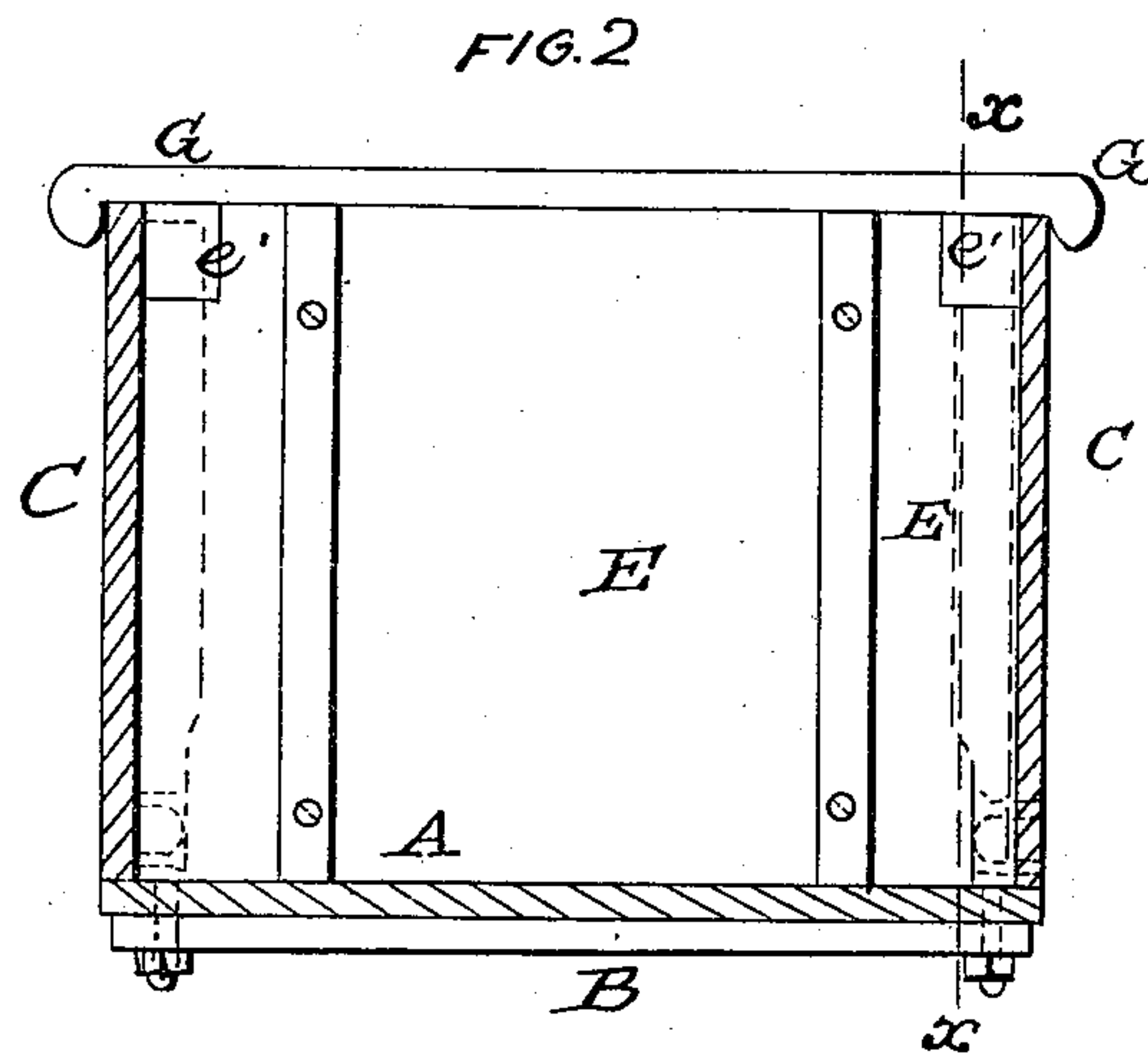
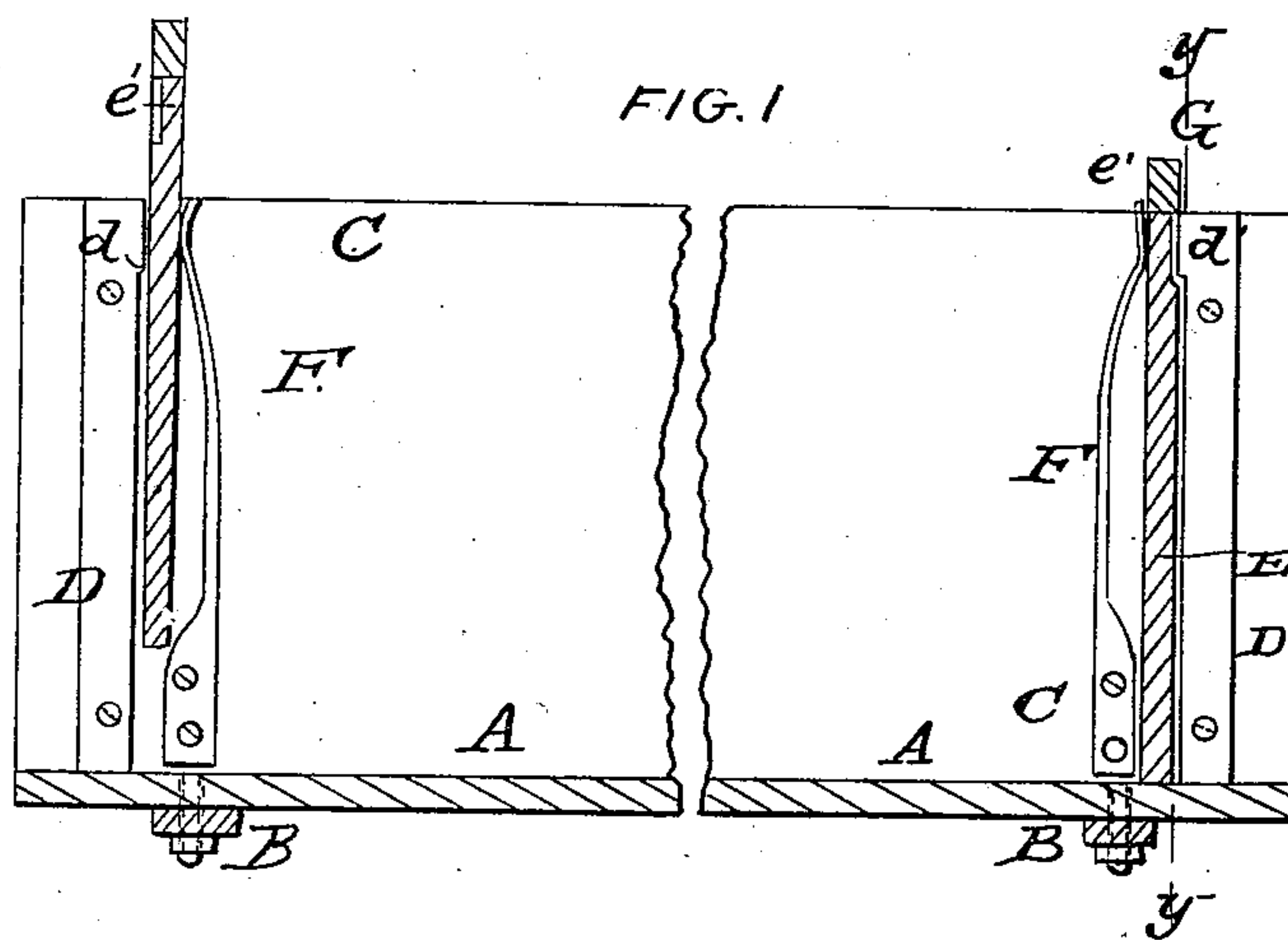


SEITZ & ARNOLD.

Wagon.

No. 81,216.

Patented Aug. 18, 1868.



WITNESSES
Wm. A. Morgan
G. C. Cotton

INVENTORS
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United States Patent Office.

SAMUEL SEITZ AND L. D. ARNOLD, OF MELMORE, OHIO.

Letters Patent No. 81,216, dated August 18, 1868.

IMPROVEMENT IN WAGONS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that we, SAMUEL SEITZ and L. D. ARNOLD, of Melmore, in the county of Seneca, and State of Ohio, have invented a new and useful Improvement in Wagons; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a detail longitudinal section of a wagon-box illustrating our improvement, taken through the line *x x*, fig. 2.

Figure 2 is a detail cross-section of the same taken through the line *y y*, fig. 1.

Similar letters of reference indicate corresponding parts.

Our invention has for its object to furnish an improvement in the construction of wagon-boxes, by means of which the end boards of the box may be securely held in place, and which shall at the same time be durable, and allow the end boards to be conveniently and quickly put in and taken out.

And it consists in the springs, in combination with the side boards and end boards of the wagon-box, as hereinafter more fully described.

A are the bottom boards of the box, beneath which pass the bars B, through the ends of which pass the bolts by which the side boards C are secured to the said bottom boards.

To the inner sides of the side boards C, near or at their ends, are attached cleats, D, having projections or shoulders, *d'*, formed upon the inner sides of their upper ends.

E are the end boards, which pass down upon the inner sides of the cleats D, and which have notches or recesses, *e'*, formed in their outer sides, to receive the projections *d'* of the cleats D when the said end boards E are pushed down to their places.

F are springs, the lower ends or parts of which are secured to the lower part of the inner sides of the side boards C, at such a distance from the cleats D as only to receive the end boards E, the said lower parts of the said springs thus forming supports for the inner sides of the lower parts of said end boards.

The upper parts of the springs F are so formed that their upper or free ends may rest against the upper part of the inner sides of the end boards E, to hold the said end boards against the cleats D, so that the projections *d'* of the said cleats may prevent the said end boards from getting out of place.

G are bars attached to the upper edges of the end boards E, and the outer end or ends of which project beyond the side boards C, and have notches or catches formed in their under sides, which catch upon the upper edges of the side boards C, and prevent the wagon-box from spreading apart sidewise.

The bars G should be made of iron, and may extend entirely along the upper edge of the end boards E, or only partially along said edge, as may be desired.

If desired, other cleats may be attached to the inner sides of the side boards E, upon the opposite sides of the springs F from the end boards E, to protect the said springs F from the contents of the wagon-box, so that the said springs may not be impeded in their action by said contents.

To detach the end boards E, their upper edges are pushed inward, forcing inward the upper ends of the springs until the projections or shoulders *d'* of the cleats D are free from the recesses *e'* in the end boards E, which said end boards may then be easily raised out of their places.

To replace the end boards E, their lower edges are inserted between the free ends of the springs F and the cleats D, and they are then pushed down into their places until the projections *d'* of the cleats D enter the recesses *e'* in the said end boards E, again securing them in place.

We claim as new, and desire to secure by Letters Patent—

1. The springs F, in combination with the side boards C, and end boards E, substantially as herein shown and described, and for the purpose set forth.

2. Securing the end boards E to the side boards C, by means of the springs F, catches G, projections *d'* of the cleats D, and the notches or recesses *e'* formed in the said end board E, substantially as herein shown and described, and for the purpose set forth.

The above specification of our invention signed by us, this 26th day of June, 1868.

SAMUEL SEITZ,
L. D. ARNOLD.

Witnesses:

W. C. STEVENS,
HARRISON BEERY.