

F. GRUNDY.
End-Gates for Wagons.

No. 142,566.

Patented September 9, 1873.

Fig. 1.

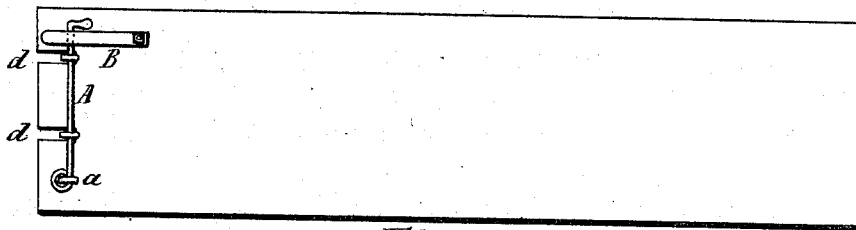


Fig. 2.

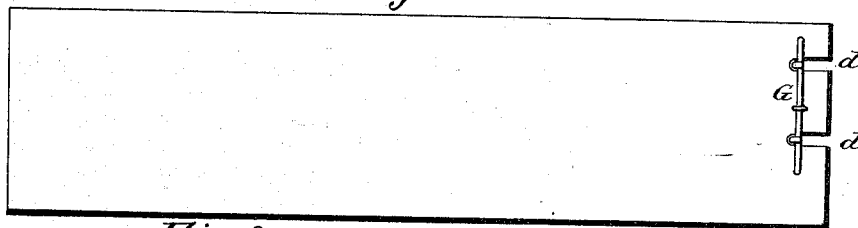


Fig. 3.

Fig. 4.

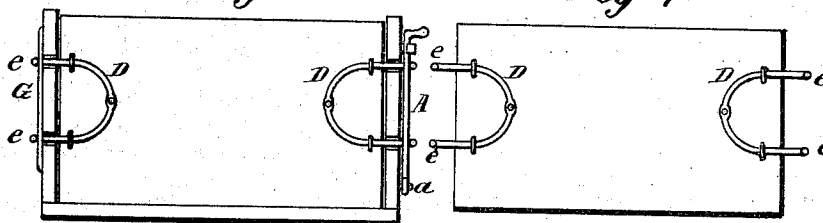
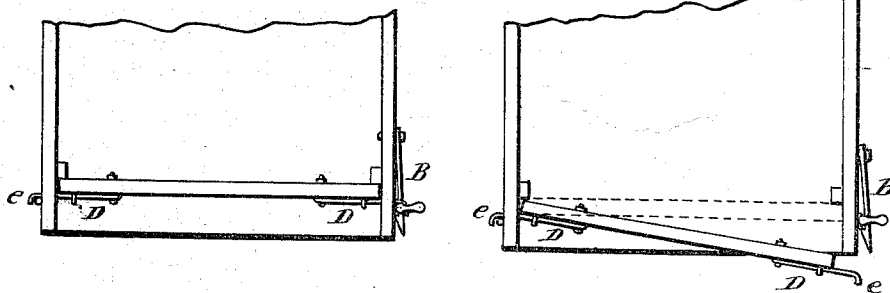


Fig. 5.

Fig. 6.



Witnesses
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IMPROVEMENT IN END-GATES FOR WAGONS.

Specification forming part of Letters Patent No. **142,566**, dated September 9, 1873; application filed March 19, 1873.

To all whom it may concern:

Be it known that I, FRED. GRUNDY, of Morrisonville, in the county of Christian and State of Illinois, have invented certain Improvements in Fastening End-Gates to Wagon-Beds, of which the following is a specification:

Figure 1 is a view of the right side of a wagon-bed, showing movable rod A* and spring B*. Fig. 2 is a view of the left side of a wagon-bed, showing stationary rod G*. Fig. 3 is a view of the end of a wagon-bed with the end-gate in place. Fig. 4 is a view of the end-gate, showing the position of parts of my invention when attached by the rods D D*. Fig. 5 is a bird's-eye view of the end of a wagon-bed, showing the end-gate in place. Fig. 6 is same view, showing the end-gate partly out.

The cleats (at present used) are taken off the end-gate, and the rods D D, Fig. 4, made of half-inch iron rod, are fastened on by a wrought nail and two staples, the hooks *ee* projecting one and one-half inch beyond the ends of the end-gate. The first or outer cleats are taken off a wagon-bed, and four notches, half an inch wide and extending to the second cleat, are cut into the ends of the side-boards, Figs. 1 and 2. The end-gate, Fig. 4, is then slid into place, as in Fig. 3, the ends of the arcs D D sliding into notches *ddd*, Figs. 1 and 2; the hooks *eeeee* will then project half an inch from the outside of the wagon-bed. On the outside of the left side-board of wagon-

bed a stationary rod, G, made of half-inch iron rod, is placed between the hooks and bed, pressed back as far as possible, and fastened there by staples. The hooks on this end should be one-half inch long. On the outside of the right side-board of wagon-bed a movable rod, A, Fig. 1, made of half-inch iron rod, is hung upon staple *a*, Fig. 1; then pressed back between the hooks *ee*, which at this end should be one inch long, and bed, sliding under a steel spring, B, having a catch under it, which holds the rod secure. The hook on rod A serves as a handle, by which it may be forced between the hooks and side of bed when the wagon is loaded.

To take the end-gate out, raise the spring, draw back the rod, and swing the end-gate half-way round, when a slight pull endwise will bring it out.

My invention dispenses with all cleats on the end-gate, requires but two on the wagon-bed, holds the end-gate securely, and the end-gate can be easily taken out or put in place.

I claim as my invention—

In combination with an end-gate of a wagon, the rods D D, having hooks *eeeee*, rods G A, and spring-catch B, substantially as and for the purpose set forth.

FRED. GRUNDY.

Witnesses:

WILLIAM HENRY HEARIN;
LOUIS JOHNSON.