

J. W. COLLINS.
End-Gate Fastening.

No. 159,563.

Patented Feb. 9, 1875.

Fig. 1

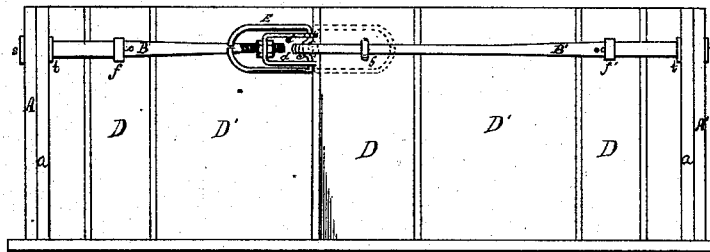


Fig. 2

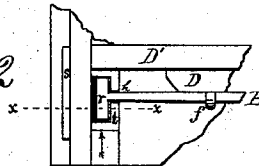
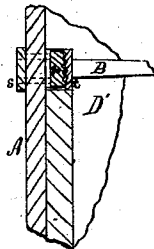


Fig. 3



Witnesses

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JOHN WEB COLLINS, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN END-GATE FASTENINGS.

Specification forming part of Letters Patent No. **159,563**, dated February 9, 1875; application filed November 9, 1872.

To all whom it may concern:

Be it known that I, JOHN WEB COLLINS, of the city of Chicago, in the county of Cook and State of Illinois, have invented an Improved Method of Fastening the End-Gates of Wagons, of which the following is a specification:

The object of my invention is to provide a more speedy and convenient way of fastening the end-gates or tail-boards of the ordinary road-wagons.

Figure 1 shows end of wagon-box with my device attached and fastened. Fig. 2 is a top view of one end of Fig. 1. Fig. 3 is a vertical transverse section of Fig. 2, taken on the line *x x*.

A A are the ends of the side-boards. *a a* are cleats, which hold the end-board in position. *D' D'* is the end-gate. *B B'* are the rods, which are flattened near and to their outer ends, and are held in position on the cleats *D D D* by the staples *f f f'*, and are provided at the outer ends with knobs, as shown at *r* in Figs. 2 and 3. The rod *B* has a thread cut on one end, on which two nuts are placed, holding between them the clevis *d d*. The ends of the clevis are bent around the eccentric *e*, and should be loose enough to allow the eccentric to work easily. The rod *B'* is attached to the eccentric in the same manner. The hooks or knobs *r r* are notched or corrugated on the sides attached to the rods, and the staples *t t* are also notched in the same way, and it is intended that they should mesh into each other when in operation, as

shown in Fig. 3. The staples *t t* are made flush with the face of the cleats *a a*, and, passing through the side-boards and iron straps *s s*, are fastened by riveting, or in any substantial manner.

Slots should be cut in the staples wide enough to allow the rods to pass freely up and down.

Grooves should be cut in the cleats *a a*, above the staples, sufficiently large to allow the free passage of the knobs *r r*.

To the ends of the eccentric *C* is attached the lever *E*, which should be so made that when in position to lock or fasten, as shown in Fig. 1, it will throw the eccentric *C* a little past the center, where it will be firmly held by the strain.

To fasten the end-gate, it is only necessary to move the lever *E* from right to left, as shown in Fig. 1.

To unfasten, it should be moved from left to right, as indicated by the dotted lines in Fig. 1.

I claim as my invention—

1. The combination of the eccentric *C*, the lever *E*, and the clevis *d d*, substantially as and for the purpose set forth.

2. Hooks or knobs with notched or corrugated surfaces, in combination with staples notched or corrugated in a similar manner, as and for the purpose set forth.

JOHN WEB COLLINS.

Witnesses:

THOS. B. JEFFERY,
JOHN COLLINS.