

B. F. BULKLEY.  
Wagon End-Gate.

No. 163,047.

Patented May 11, 1875.

Fig. 1

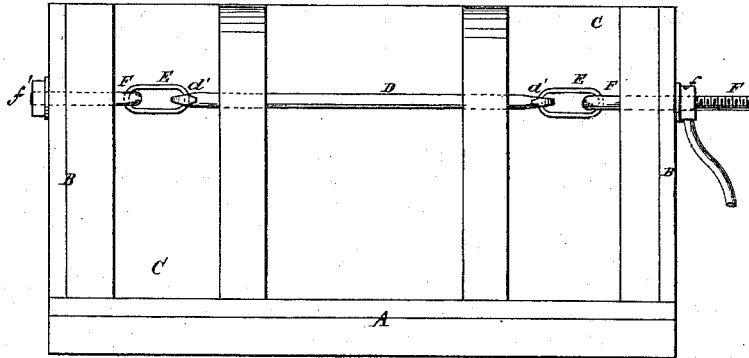


Fig. 2

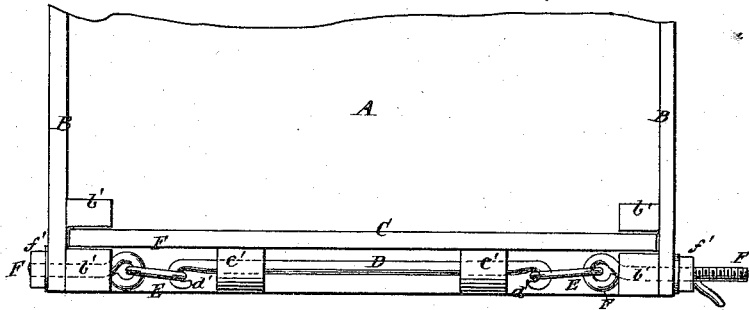
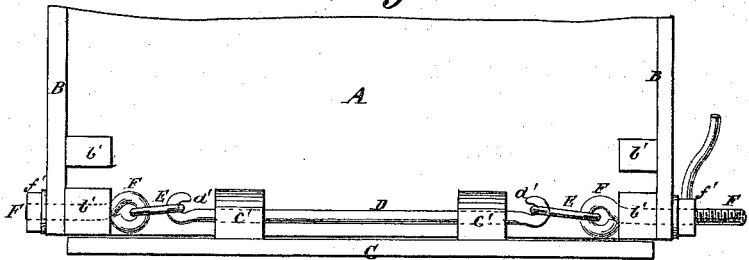


Fig. 3



WITNESSES:

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*Sidgwick*

INVENTOR:

*B. F. Bulkley*  
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# UNITED STATES PATENT OFFICE.

BENJAMIN F. BULKLEY, OF SOUTHPORT, CONNECTICUT.

## IMPROVEMENT IN WAGON END-GATES.

Specification forming part of Letters Patent No. **163,047**, dated May 11, 1875; application filed March 13, 1875.

*To all whom it may concern:*

Be it known that I, BENJAMIN F. BULKLEY, of Southport, in the county of Fairfield and State of Connecticut, have invented a new and useful Improvement in Wagon-Box End-Board Fastener, of which the following is a specification:

Figure 1 is an end view of a wagon-box to which my improved fastener has been applied. Fig. 2 is a top view of the same. Fig. 3 is the same view as Fig. 2, but showing another adjustment of the end-board, to obtain more space within the box.

Similar letters of reference indicate corresponding parts.

The invention will first be fully described, and then pointed out in the claim.

A represents the bottom boards. B represents the side-boards, and C the end-boards of a wagon-box. *b'* are cleats attached to the inner sides of the ends of the side-boards B, to form grooves to receive the ends of the end-boards C. *c'* are cleats attached to the outer side of the end-boards C to strengthen them, and which are placed a little farther from the ends of said end-board than in wagon-boxes constructed in the ordinary way. D is a rod extending longitudinally along the outer side of the end-boards C and through holes or notches formed in the cleats *c'* to receive it. Upon each end of the rod D is formed a hook, *d'*, for the links E to be hooked. The links E are placed in the eyes of the eyebolts F, which pass through the outer cleats

*b'* and the ends of the side-boards B, and have hand-nuts *f'* screwed upon their outer ends, so that they can be readily loosened to enable the links E to be detached from the hooks *d'*. With this construction the fastenings can be readily and quickly fastened and unfastened to secure and release the end-boards. This construction enables the end-boards to be reversed and placed upon the outer side of the outer cleats *b'*, to give a little more space within the wagon when the load is barrels, or something requiring more space. With this construction, also, where the end-boards are not required, the links E can be used to receive the ropes with which the load is secured. The cleats *b'* may be chamfered to receive the eyes of the eyebolts F, and recesses may be formed in said chamfers to receive the links E, so that the said eyes and links may be sunk beneath the surface of said cleats when the links E are detached from the hooks *d'* of the rod D, so as to be entirely out of the way when the end-boards are detached.

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

The combination, with a wagon end-gate, having cleats *C' C'*, of a hook-ended slide-rod, D, adjustable eyebolts F F, and links E E, substantially as set forth.

BENJAMIN F. BULKLEY.

Witnesses:

FRANCIS BULKLEY,  
DANIEL MOLONEY.