

M. S. & C. B. AUSTIN.
Gate.

No. 199,681.

Patented Jan. 29, 1878.

Fig. 1.

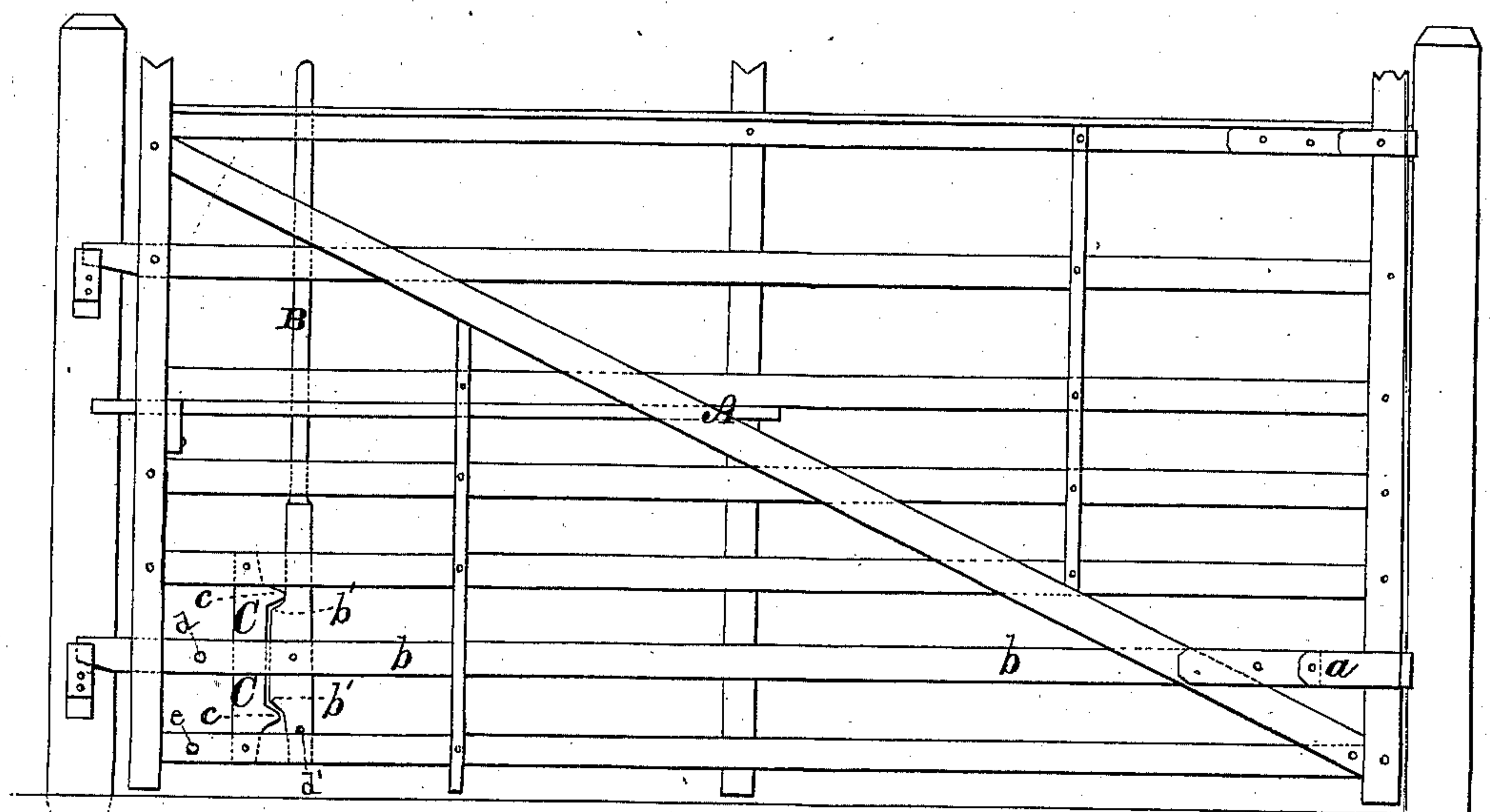


Fig. 2.

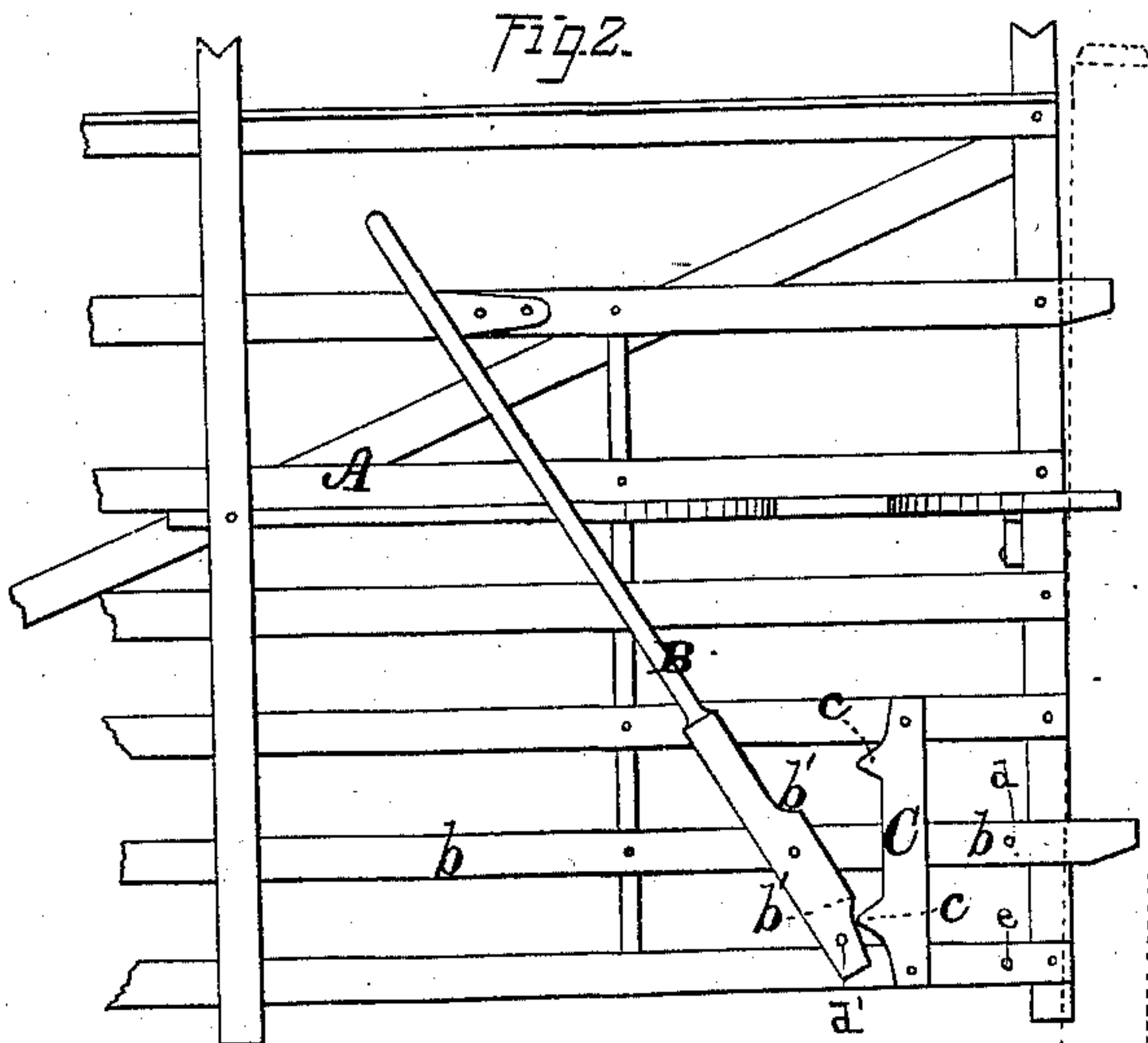


Fig. 3.



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IMPROVEMENT IN GATES.

Specification forming part of Letters Patent No. **199,681**, dated January 29, 1878; application filed December 20, 1877.

To all whom it may concern:

Be it known that we, MILTON S. AUSTIN and CYRUS B. AUSTIN, of Cuba, in the county of Clinton and State of Ohio, have invented certain new and useful Improvements in Gates; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification, and in which—

Figure 1 is a side view of our improved gate. Fig. 2 is a similar view thereof, partly broken away, and standing in a tilted position; and Fig. 3 is a detached horizontal section of the same.

Corresponding parts in the several figures are denoted by like letters.

This invention appertains to certain improvements in gates; and it consists, mainly, of a lever fulcrumed to a sliding bar and bearing against a fixed point upon the gate; secondly, of a lever fulcrumed, as aforesaid, to a sliding bar, and acting against a bar having one or more salient points; and, finally, of a sliding bar hinged to the supporting-post of the gate, and having a lever bearing against a fixed point upon the gate, substantially as herein-after more particularly set forth.

In the annexed drawings, A refers to a gate, the lower hinge of which is strapped or connected to an offset upon a sliding bar, *b*, of the gate, said offset being sufficiently removed from the end of the gate to allow the latter to have a limited endwise movement on being tilted, by which its forward end may be elevated.

B is a lever, fulcrumed to the sliding bar *b* of the gate, and extending up within convenient reach for operation. The bar *b* projects into the post against which the gate closes, to hold it thereto. The lever B is chamfered, as at *b'*, forming a shoulder thereon.

C is a vertical bar, fastened to the gate near its forward end, and provided with two salient points or projections, *c c*, against the lower one of which the lever B bears when the latter is inclined, as in Fig. 2, to tilt or elevate the

forward end of the gate to clear any temporary obstruction in opening or closing the gate. Simultaneously with this movement or inclining of the lever the sliding projecting bar will be retracted from the post, and the gate thus allowed to be opened.

When the lever B is brought to a perpendicular position its shoulder between the points *b' b'* fits in between the projections *c c* of the bar C, as seen in Fig. 1. The lever in this position, by drawing upon it, acts as a second-class lever, it bearing against the upper one of the projections *c c*, enabling the forward end of the gate to be lifted, the same as above.

The vertical bar C may be dispensed with, and the spirit of our invention carried out by fulcruming the lever B at the point or aperture *d* in the sliding bar *b*, and carrying the lateral projection *d'* upon the lower end of the lever, to enter the aperture *e* in the bottom rail of the gate.

The principal object of our invention is to relieve the gate from continual side draft on the hinge-post by allowing the gate to be at rest when closed.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

1. In a gate, a lever fulcrumed to a sliding bar and bearing against a fixed point upon the gate, to lift or elevate its forward end, substantially as set forth.

2. In combination with a gate having the sliding projecting bar *b*, the lever B and bar C, having one or more salient points or projections, *c*, substantially as and for the purpose set forth.

3. The combination, with a gate having its lower hinge attached to a sliding bar, of the lever B and bar C, provided with one or more projections, *c*, substantially as and for the purpose set forth.

In testimony that we claim the foregoing as our own we hereunto affix our signatures in presence of two witnesses.

MILTON S. AUSTIN.
CYRUS B. AUSTIN.

Witnesses:

C. W. AUSTIN,
JOSEPH McCRAY.