

J. GREIG.  
Gate.

No. 206,314.

Patented July 23, 1878.

Fig. 1.

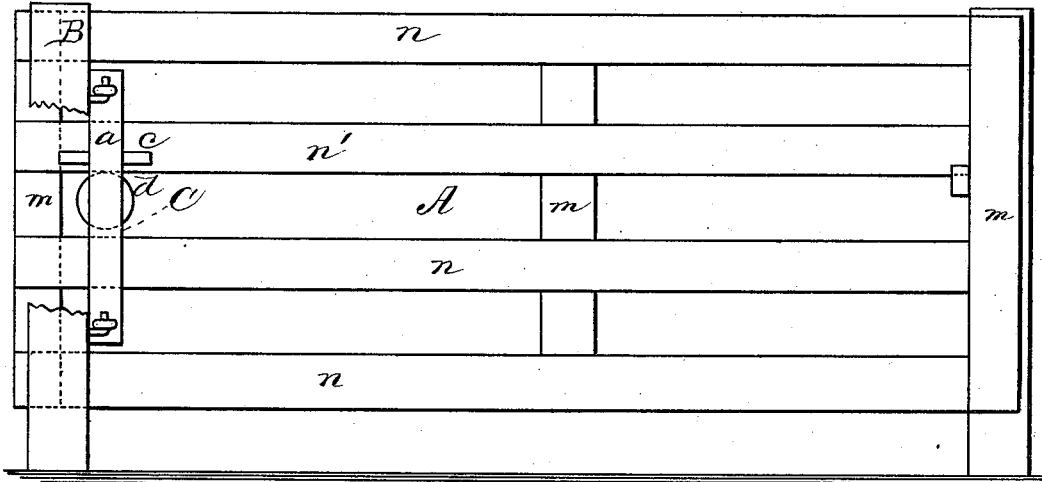


Fig. 2.

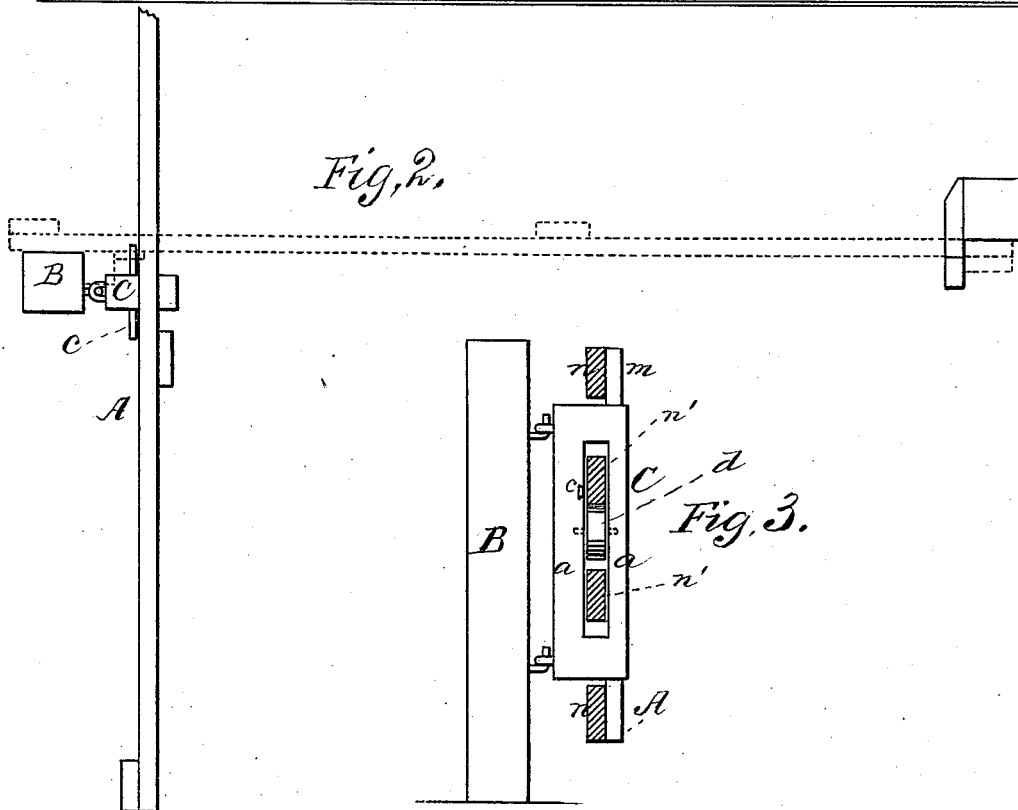


Fig. 3.

WITNESSES

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# UNITED STATES PATENT OFFICE.

JOHN GREIG, OF MORRIS, ILLINOIS.

## IMPROVEMENT IN GATES.

Specification forming part of Letters Patent No. **206,314**, dated July 23, 1878; application filed June 1, 1878.

*To all whom it may concern:*

Be it known that I, JOHN GREIG, of Morris, in the county of Grundy and State of Illinois, have invented a new and valuable Improvement in Gates; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side view of my improved gate. Fig. 2 is a top view of the same opened; and Fig. 3 is a side view of the open frame, showing the gate in section.

The nature of the invention consists in the construction and novel arrangement, in connection with a gate and its bars, of a post, having a swinging hanger provided with a central roller, and a horizontal guide-bar seated in a groove in the hanger and extending on each side thereof, and one of the bars of the gate bearing against said guide-bar and the roller of the hanger, as will be hereinafter more fully shown and described.

In the annexed drawings, the letter A indicates a swinging and sliding gate, constructed with horizontal bars *n*, secured at their ends and middle portion to vertical bars *m*. B represents the gate-post, having hinged thereto the open box or frame C, consisting of the vertical bars *a* and *b*, connected at their ends and provided with the roller *d*, which is pivoted between said bars at the proper height to form a bearing for the rail *n'* of the gate, which rests and moves thereon through the open box or frame.

*c* is the friction-preventing guide, which is a small horizontal bar secured to the inside of the bar *a* of the swinging frame, parallel with the gate and above the roller sufficiently to bear against the side of the rail *n'*, which rests on said roller. This horizontal bar *c* extends on each side of the frame A in the form of arms, and is designed to prevent undue bind-

ing and friction of the gate against the vertical bars of the swinging frame as the gate-rail moves between them, which is accomplished by the bearing of the projecting ends or arms of said bar against the bearing-rail *n'* of the gate, which rests on the roller in the frame. It serves also as a lever to assist in turning the hinged frame or fulcrum in the operation of swinging the gate around. In this operation the lateral bearing-surface of the gate is confined to that portion of the bar *n'* which bears against the guide and friction preventer *c*, which, having a smooth and horizontally-extended surface always presented to said bar, keeps the roller opening square to the gate, and thereby effects a free sliding motion, when otherwise the gate would bind in its turning and sliding movements against the diagonally-opposite corners of the bars of the swinging box or frame.

This guide may be secured in a dovetail notch in the side of the frame-bar, or otherwise, as may be desired.

I am aware that a swinging or hinged frame for a sliding gate is not new, and that a roller has been used to form the bearing for a sliding gate, and therefore I do not claim, broadly, such devices; but

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination, with a sliding and swinging gate, A, having bars *n n'*, of the post B, having the swinging hanger C, provided with a central roller, *d*, the horizontal guide-bar *c*, seated in a groove of the hanger and extending on each side thereof, the bar *n'*, bearing against said guide-bar *c*, and the roller *d* of the hanger, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN GREIG.

Witnesses:

H. B. FOSTER,  
F. B. MALCOMB.