R. S. HIGINBOTHAM.

GATE CLOSING DEVICE.

No. 180,583. Patented Aug. 1. 1876.

Fig. 1.

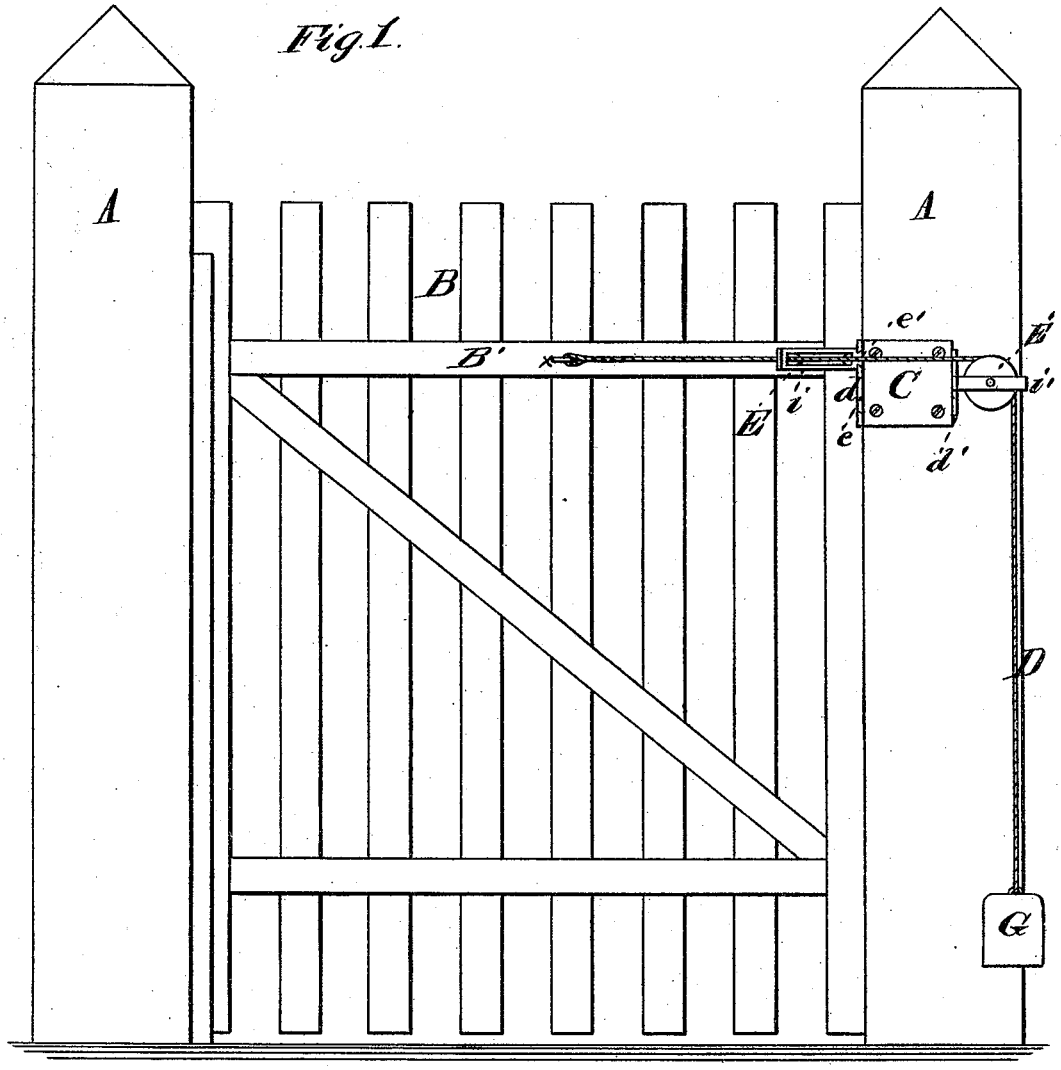


Fig. 2.

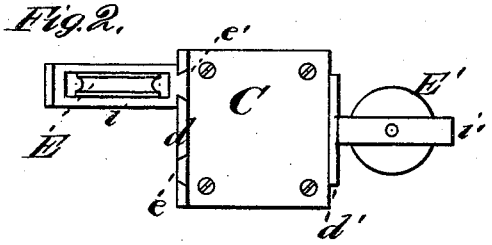
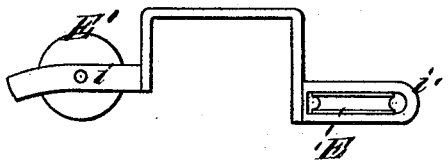


Fig. 3.



WITNESSES

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ROBERT S. HIGINBOTHAM, OF CHARLESTON, ILLINOIS.

IMPROVEMENT IN GATE-CLOSING DEVICES.

Specification forming part of Letters Patent No. **180,583**, dated August 1, 1876; application filed May 13, 1876.

To all whom it may concern:

Be it known that I, ROBERT S. HIGINBOTHAM, of Charleston, in the county of Coles and State of Illinois, have invented a new and valuble Improvement in Devices for Gate-Closing; 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 front view of my gate-closer, showing it applied to a gate, and Figs. 2 and 3 are detail views of the same.

This invention has relation to means for closing gates; and it consists in a flanged bracket, which is applicable to either the right or left hand gate post, and which is provided with grooved pulleys arranged in planes at right angles to each other, in combination with a pulley-rope and a weight, as will be hereinafter more fully explained.

In the annexed drawings, A A designate the gate-posts, and B designates the gate, which may be constructed in the usual well-known manner. C designates a flanged bracket, which is rigidly secured to one of the gate-posts A. The flange *d* of the bracket C nearest the gate has two dovetail notches, *e e'*, in its edge, adapted to receive a removable curved pulley-arm, *i*, bearing a pulley, E.

The object of having two notches, as shown in Figs. 1 and 2, is that the device may be used upon gates opening either on the right or left by simply moving the pulley-arm *i* from one to the other of the notches *e e'*.

The looped arm *i*, through which a rope, D, passes onto the sheave E, which is in a horizontal plane, is slightly curved, so as to allow said rope free play from any angle at which the rope may be fastened on the gate, and, at the same time, prevent the rope from binding on the pulley.

To the outer flange *d'* is permanently secured a pulley-arm, *i'*, to which is applied a sheave, E', which rotates in a vertical plane.

The rope D is secured to the gate B, and is attached at or near the middle of the length of the upper rail B', as shown in Fig. 1. This rope is passed through the sheaves E and E', which are in planes at right angles to each other, and depends from the sheave E', carrying on its lower end a weight, G, which is sufficiently heavy to cause the gate to shut when opened.

My invention is applicable either to the right or left hand gate-post, by inverting the bracket and changing the arm *i* from one dovetail notch to the other.

I contemplate applying my invention to doors as well as to gates.

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

A reversible flanged bracket, C, having a removable pulley-carrying arm, *i*, applied to its notched flange *d*, and a pulley-carrying arm, *i'*, applied to its flange *d'*, in combination with the rope D and a weight, G, substantially as set forth.

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

ROBERT S. HIGINBOTHAM.

Witnesses:

J. B. DENMAN,

JOHN L. REID.