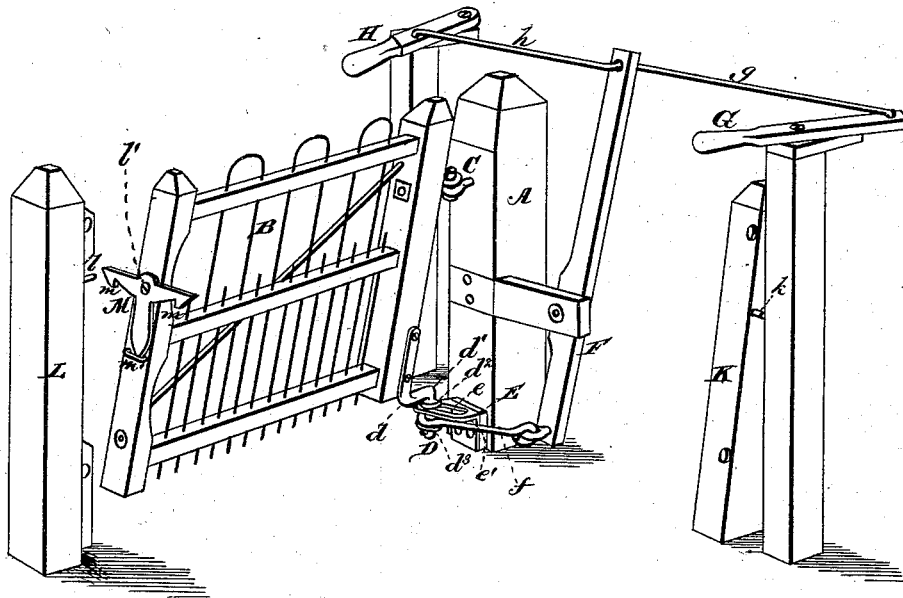


W. H. BOND.
Gate.

No. 217,325.

Patented July 8, 1879.



WITNESSES

Robert Eratt
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UNITED STATES PATENT OFFICE.

WILLIAM H. BOND, OF GREENSBOROUGH, INDIANA.

IMPROVEMENT IN GATES.

Specification forming part of Letters Patent No. **217,325**, dated July 8, 1879; application filed May 3, 1879.

To all whom it may concern:

Be it known that I, WILLIAM H. BOND, of Greensborough, in the county of Henry and State of Indiana, have invented certain new and useful Improvements 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 drawing, making a part of this specification, and to the letters and figures of reference marked thereon.

The figure of the drawing is a representation of a perspective of my gate.

My invention relates to gates; and consists in the improvements in the construction of the same hereinafter fully described, and particularly pointed out in the claim.

A is a gate-post. B is the gate. C is the upper hinge of the gate, which is constructed similar to a common single eye-and-pintle gate-hinge, except that the eye should be a little larger than the pintle, and the pintle somewhat longer than common, so as to allow the bottom of the gate to swing and the gate to be raised somewhat without straining the hinge or unhinging the gate.

The pintle D of the lower hinge is attached to the frame of the gate. This pintle has two right-angled bends, d d' , and just below the angle d' there is a collar, d^2 .

The pintle proper, d^3 , works in the slot e of the angle-plate E. The upper plate, e' , of this part of the hinge is set somewhat inclined, and the slot is so angled as to be in line with the lower arm of the lever F.

F is a vertical lever properly pivoted to the gate-post, and its lower arm connected with the pintle d^3 by the rod f . G and H are levers located on posts each side of the gate, in a horizontal position, and connected with the lever F by means of rods g and h . K is a stop-post for the gate, provided with the pin k . L is the gate-post, and l the pin for holding the gate closed.

M is a T-headed catch provided with the hooks m , located upon the arms, and m' is a staple which embraces the lower end of the body of the catch to prevent too much motion being given to the hooks by sudden contact with the pins k or l . The catch is pivoted to the gate-frame by the bolt l' .

The operation of my invention is as follows: The gate being closed, the pintle d^3 is at that portion of the slot e nearest the lever F, which position is also a deflection in the same direction from a vertical line with the hinge C. To open the gate, push the lever G toward the gate. This causes the pintle d^3 to be passed to the opposite side of the vertical line from what it was, which, by means of the incline of the plate e' , so raises the gate as to unhook the catch m , and the gate swings open by gravity, when the hook m engages the pin k of the stop-post K and is retained in an open condition.

To close the gate, push the lever H from the gate, which returns the pintle to the first position, raises the gate by moving its base nearer the post K, so as to unhook the gate from pin k , and it is closed by gravity, and retained by the hook m and pin l .

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

In a farm-gate, the T-headed catch M, provided with the hooks m and pivoted bolt l' and guard m' , in combination with the pins k and l , as and for the purposes substantially as set forth.

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

WILLIAM HENRY BOND.

Witnesses:

JONATHAN K. BOND,
LEVI ULRICH.