

M. MILES.
AUTOMATIC GATE.

No. 188,165.

Patented March 6, 1877.

Fig. 1.

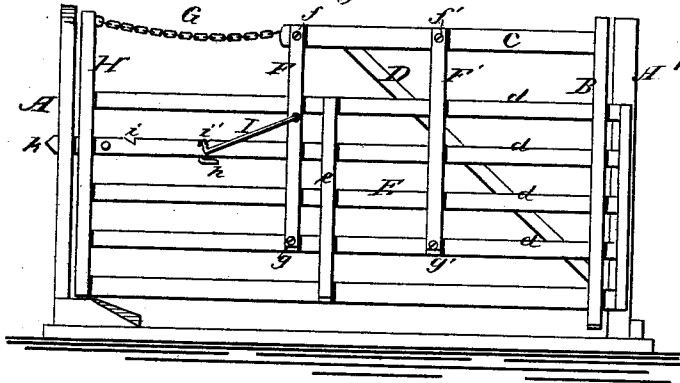


Fig. 2.

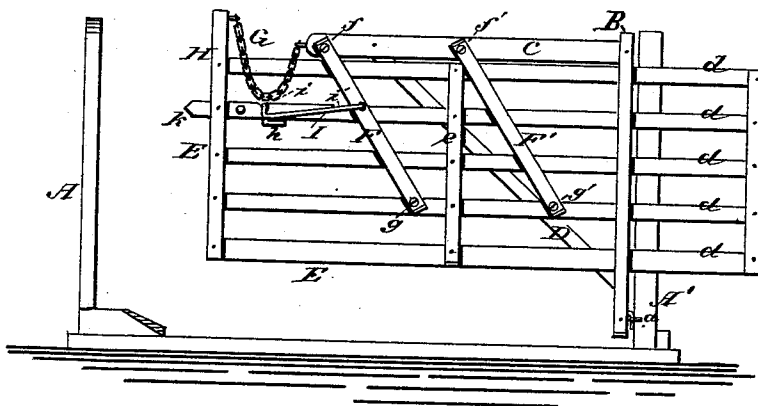
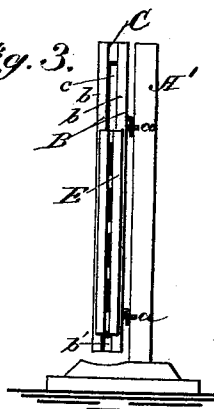


Fig. 3.



Attest:
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by Attys.

UNITED STATES PATENT OFFICE.

MYRON MILES, OF THOMAS, MICHIGAN.

IMPROVEMENT IN AUTOMATIC GATES.

Specification forming part of Letters Patent No. **188,165**, dated March 6, 1877; application filed October 23, 1876.

To all whom it may concern:

Be it known that I, MYRON MILES, of Thomas, in the county of Oakland and State of Michigan, have invented certain new and useful Improvements in Farm-Gates; and I 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, which form a part of this specification, and in which—

Figure 1 is a front elevation of the gate closed. Fig. 2 is a similar view of the gate pushed back, preparatory to swinging it open; and Fig. 3 is a view of the gate thrown open, or at a right angle to the views represented in Figs. 1 and 2.

Similar letters of reference indicate corresponding parts in all the figures.

This invention consists in the construction and arrangement of parts of a farm-gate, in such a manner that its lower section will be raised from the ground when it is pushed back; thereby enabling it to swing open over the snow or other obstructions, that would otherwise prevent an easy opening of the gate.

In the drawing, A A' are the two posts between which the gate, hinged at *a*, is hung. This consists of two sections, one of which is formed of the pieces B C D, united so as to form a triangle, one side of which, B, consists of two parallel pieces, *b b*, kept apart by the top piece C and the block *b'*, so as to form a vertical slot or opening, *c*, in which the second section slides. This consists of a series of parallel slats or rails, *d*, united by cross-pieces *e*, so as to form a rectangular frame, E, that is hung in swinging arms or brackets F F'. One of these, F, is double, or made by two parallel pieces, similarly to the piece B, so as to leave an open slot, in which the rails *d* may slide when the gate is pushed back. The other arm, F', is simply a straight bar, pivoted in the fixed piece C at *f'*, and in one of the bottom rails at *g'*. Arm F is pivoted in the same manner at *f g*.

G is a rope or chain passing from the end of arm C to the top of the end piece H, where it is secured. I is the latch, which consists of a rod, bent so as to form a catch or bail, *h*, that falls into the notch *i'* in one of the rails *d*, when the gate is closed, and in the notch *i* when it is open. In the former case, it prevents the accidental pushing back or withdrawal of the gate, and in the latter it keeps the lower section E in its raised position while the gate is being swung open. *k* is a tongue, formed by letting one of the rails *d* project beyond the upright H, which fits into a slot or mortise in post A, so as to keep the gate closed.

From the foregoing description the operation of my improved gate will be readily understood. When latch I is lifted out of notch *i*, the frame E is easily pushed back through the slots in pieces F and B, the bail *h* sliding along the rail until it falls into the other notch, *i'*, and keep frame E in its open and raised position, (represented in Fig. 2,) in which it is readily swung open, if desired. As the frame E is pushed back, it will be gradually raised from the ground by the arms F F' swinging in the arc of a circle, the center of which is at the pivoting-points *f f'*.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination of the swinging frame B C D, hinged at *a*, sliding frame E, and swinging arms F F', substantially as and for the purpose herein shown and described.

2. The combination of the swinging arm F, latch I, having bail or catch *h*, and rail *d*, having notches *i i'*, substantially as and for the purpose herein shown and described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

MYRON MILES.

Witnesses:

BYRON KNAPP,
ALBERT LINCOLN.