

I. B. MISHLER.

Improvement in Self-acting Gates.

No. 123,411.

Patented Feb. 6, 1872.

Fig. 1.

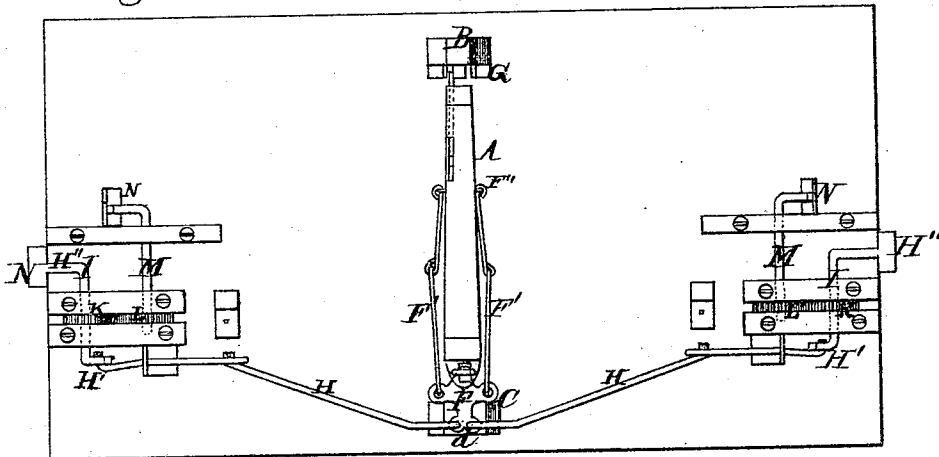
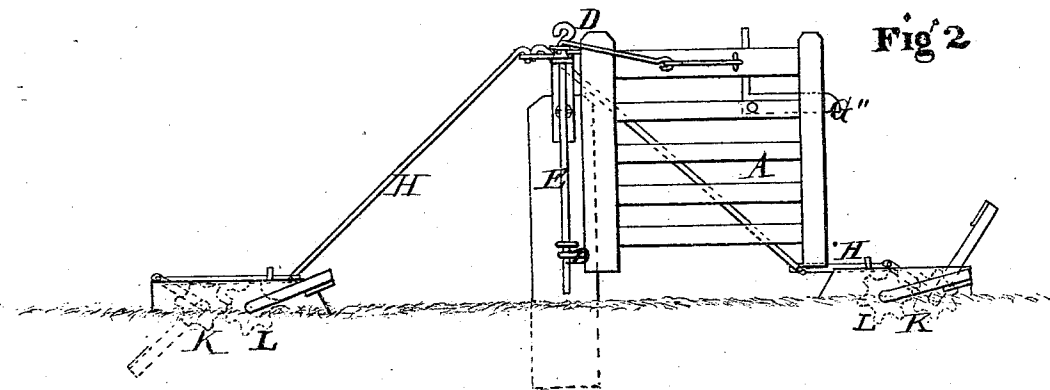


Fig. 2



Witnesses.

E. H. Bates.

Villette Anderson.

Inventor.

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UNITED STATES PATENT OFFICE.

ISAAC B. MISHLER, OF BREATHEDSVILLE, MARYLAND.

IMPROVEMENT IN SELF-ACTING GATES.

Specification forming part of Letters Patent No. 123,411, dated February 6, 1872.

To all whom it may concern:

Be it known that I, ISAAC B. MISHLER, of Breathedsville, in the county of Washington and State of Maryland, 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 drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a plan view. Fig. 2 is a side elevation.

This invention has for its object the general improved construction and operation of farm-gates, which are intended to work automatically, so as to open and close at the approach and departure of wheel-vehicles.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation.

A in the drawing represents a gate, of ordinary form in its general build. B shows the post to which it is locked when closed. C is the rear post, to which the gate is hinged. D represents the gate hinges. The upper one is slotted for the purpose of allowing the gate to move backward. E indicates the vertical rod on which the hinges turn. F represents a bell-crank or lever attached to the vertical rod E, so as to turn from right to left and vice versa. Attached to the front wings of said bell-crank are the jointed rods F', which connect with a double eye-bar, F''. G is a catch

on the post B to hold the latch G'' when the gate is closed. H represents jointed rods attached by their inner ends to the rear wings of the bell-crank F, as shown at d, and by their outer ends to the tops of the lever-arms H' on bars I. The bars I are provided with two arms, H' and H'', bent at right angles with each other. The bars I have attached in the center gear-wheels K K, to couple with corresponding wheels L keyed to the horizontal lever-shaft M, as shown on the drawing. N designates steps placed on the upper end of the inner arms or levers, for the purpose hereafter mentioned.

The vehicle approaching the gate, one of the wheels strikes the step N, causing the gears K L to revolve, and, by the action thus communicated to rods H F' and double eye-bar F'', first releases the latch, and then swings the gate in the opposite direction. After passing the gate and following the direction of the road, one of the wheels strikes the step of the opposite crank and closes the gate.

I claim as my invention—

The rods F' and double eye-bar F'', in combination with the bell-crank F and jointed rods H, applied to the gate A, as and for the purpose set forth.

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

ISAAC B. MISHLER.

Witnesses:

JOS. KAUSLER,
JOHN B. MISHLER.