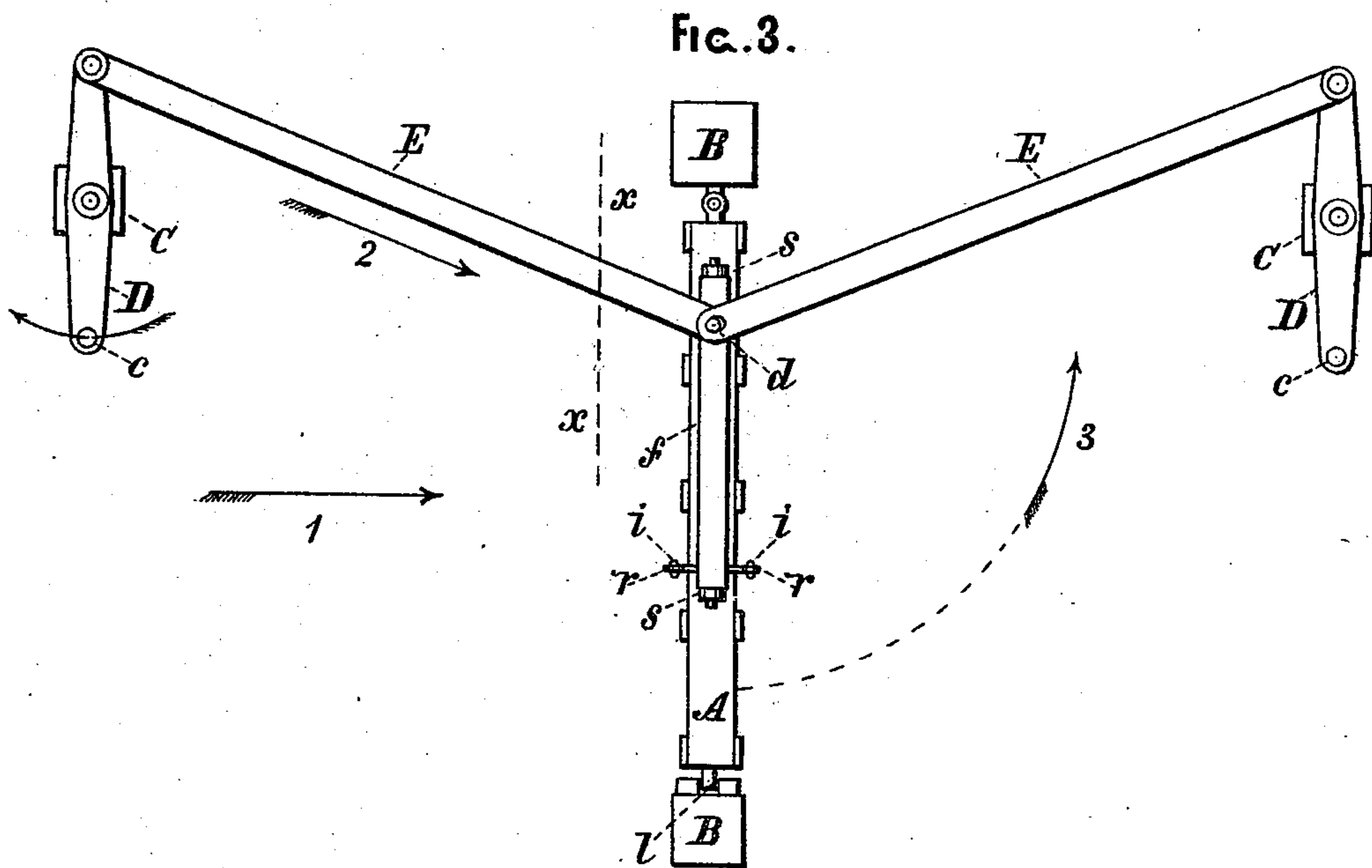
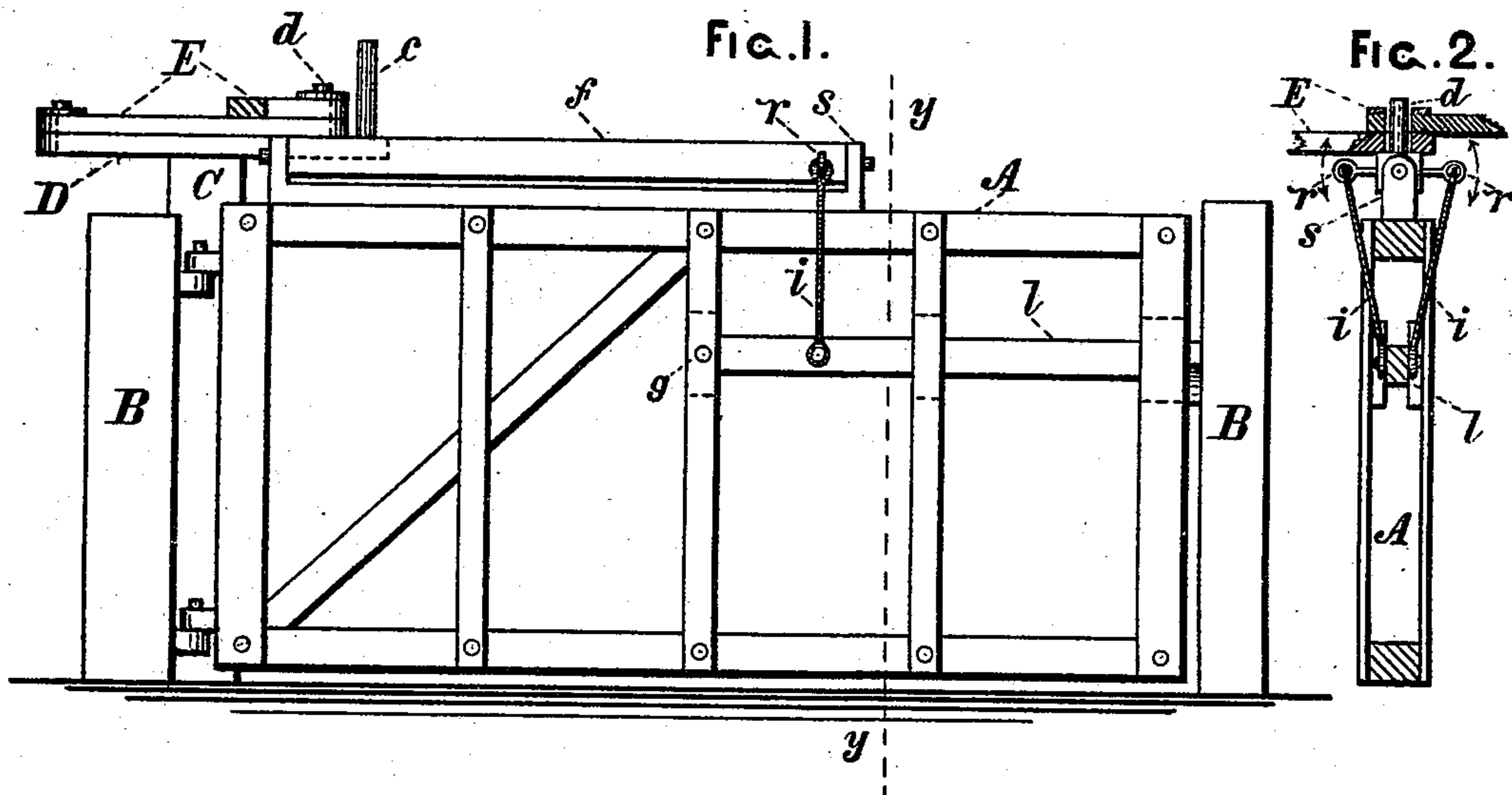


(No Model.)

W. H. H. WEST.  
FARM GATE.

No. 514,102.

Patented Feb. 6, 1894.



Witnesses  
A. W. Newton.  
R. Newton.

Inventor  
William H. H. West  
By his Attorney J. S. Davenport.



# UNITED STATES PATENT OFFICE.

WILLIAM H. H. WEST, OF JERSEYVILLE, ILLINOIS.

## FARM-GATE.

SPECIFICATION forming part of Letters Patent No. 514,102, dated February 6, 1894.

Application filed December 5, 1893. Serial No. 492,886. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM H. H. WEST, of Jerseyville, in the county of Jersey and State of Illinois, have invented a new and Improved Farm-Gate; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention relates to an improvement in farm gates of that type adapted to be opened and closed by a person riding in a vehicle or on horseback.

My object is to provide a simple and consequently cheap yet effective mechanism by which the gate can be opened or closed against the resistance of a moderately strong wind, and hence to remove a long-standing objection to this class of gates.

With this end in view, my invention consists in a certain construction and combination of parts set forth in the following specification and illustrated in the accompanying drawings, in which—

Figure 1, is a side elevation of the gate taken in the line  $x, x$ , Fig. 3. Fig. 2 is an end sectional view of the same taken in the line  $y, y$ , Fig. 1, and Fig. 3, is a plan or top view of the gate and the mechanism for opening it; drawn to a smaller scale.

A represents the gate; B B, the gate-posts. Placed at the requisite distance on each side of the gate, is a post C, having fulcrumed on the top thereof, a hand-lever D, furnished at the inner end with a vertical handle  $c$ , the outer end having pivoted thereto one end of a long connecting bar E, which in turn is similarly connected with a stud  $d$  rigidly secured on the upper side of a square rocking bar  $f$ , the latter adapted to oscillate to a limited extent in bearings S, S, secured to the top bar of the gate, the eye at the inner end of each connecting bar being slightly elongated to admit the oscillation of the stud  $d$ , as will be seen by reference to Fig. 2. Extending laterally from each side of the rocking bar, see Fig. 2, is a short arm  $r$ , terminating in an eye from which depends a cord or chain  $i$ , the lower end of which is connected with the gate-latch  $l$ , at a point between its fulcrum  $g$ , and its vibrating end, as shown in Fig. 1.

It will be observed that the angular vibration of the stud  $d$  about the axis of the bar  $f$ , is limited by the extent to which the eyes on the inner ends of the connecting bars E E

are elongated. This limit being reached, and consequently the latch lifted so as to liberate the gate, the power applied to the bar E is, by the arrested motion of the stud  $d$ , transferred to the gate, and consequently swings the latter back upon its hinges, as indicated by arrow 3, Fig. 3.

The several parts of my device being constructed and combined as above described, it is manipulated as follows: The operator approaching the gate as indicated by arrow 1, he takes hold of the handle  $c$  of the hand-lever and turns the latter about its fulcrum so as to thrust the connecting bar E in the direction indicated by arrow 2, the effect of which is, to first lift the latch, and then swing open the gate as indicated by arrow 3. The operator having passed through the gateway, a similar operation of the opposite hand-lever and connecting bar, closes the gate.

The operator's power being applied to the gate throughout its entire travel, it follows that it can be opened or closed against the resistance of a moderately strong wind.

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

The combination with a farm gate, of a device for opening and closing the same, comprising a pair of connecting bars E, E, each having one end pivotally secured to a hand-lever D, the latter fulcrumed on the top of a post C, the opposite ends of said connecting bars being pivotally connected with the gate by a vibrating stud  $d$ , rigidly secured in a rocking bar journaled on the top bar of the gate, and from the sides of which project arms  $r$ ,  $r$ , each of the latter connected by a chain, cord, or other pliable medium, with the latch, in such manner that when the power necessary for opening the gate, is applied to either of the hand-levers, it will give to the rocking bar the requisite motion to first, lift the latch, and then open the gate; all of said parts constructed and adapted to each other for united operation, substantially as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 20th day of November, 1893.

WILLIAM H. H. WEST.

Witnesses:

J. S. CARR,

J. W. ROBERTS.