

UNITED STATES PATENT OFFICE.

CHARLES R. PRICE, OF DES MOINES, IOWA.

FARM-GATE.

No. 808,869.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES R. PRICE, a citizen of the United States of America, residing at Des Moines, in the county of Polk and State of Iowa, have invented new and useful Improvements in Farm-Gates, of which the following is a specification.

The object of this invention is to provide improved means for operating a gate.

10 A further object is to provide means whereby a gate may be operated to open and closed positions by means of a rope or cable carried along a roadway to considerable distance from the gate and within convenient reach of pedestrians or persons in vehicles.

15 A further object is in the arrangement of the latch-operating parts to truss the gate to prevent its sagging.

20 My invention consists in the arrangement and combination of a gate and gate-latch and the means for operating the gate and gate-latch, as hereinafter more fully set forth, pointed out in my claim, and illustrated by the accompanying drawings, in which—

25 Figure 1 is a perspective of the complete gate. Fig. 2 is a view illustrating the arrangement of the latch, and Fig. 3 illustrates the striker.

30 Referring to the accompanying drawings, the numeral 10 designates the gate, 11 the post to which it is hinged, and 12 the latch-post. Struts 13 are arranged to brace the gate in one direction, and the arrangement of the latch-operating parts trusses the gate in the opposite direction, as will be made clear.

35 A striker 14, located on the post 12, is provided with inclined planes on its upper face and arranged to lift the latch 15 on the gate when the gate is being closed from either direction. As shown, the latch 15 is supported by one of the rails of the gate and retained against lateral movement by the vertical end pieces of the gate. This arrangement may vary as required to adapt the latch to various types of gates. The striker 14 is notched centrally to receive the latch 15, and the latch is provided with a spring 16, which acts to assure the seating of the latch in the notched striker.

40 A lever 17, having its upper end reduced to a handle, is provided and is pivoted to the gate and arranged to operate to withdraw the latch from engagement with the striker. The latch 15 is pivoted to the lever 17.

45 A cable 18 is fixed to the lower end of the lever 17 and is extended upwardly on both

sides of the gate to hooks 19, fixed in the upper ends of the struts 13, and thence to a point along the top rail near the inner end of the gate. This arrangement of the cables serves the double function of a truss to prevent sagging and a spring for actuating the lever 17 and latch 15.

For the operation of the gate by persons in vehicles ropes 20 and 21 are fixed at their one end to the lever 17 and extended to the outer ends of the lever 22, pivoted to the top of the gate. Ropes 23 and 24 are fixed to the lever 22 and extended through direction-pulleys 25 and 26 on the post 11. The rope 23 is then extended to a direction-pulley 27 on the post 28. The rope 24 is extended from the direction-pulley 26 to a pulley 29 on the post 30. Pending from the free ends of the ropes 23 and 24 are handles 31 and 32 of a weight sufficient to keep the ropes taut and in position on the various pulleys, yet of a shape to permit of easy grasping by a person.

In practical operation, assuming the gate to be in a closed position and held by the latch and striker, a pedestrian grasps the handle of the lever 17 and moves it laterally toward the center of the gate and against the tension of the cable 18, which movement of the lever draws the latch 15 out of the notch in the striker 14 and releases the gate, so that it may be opened. To close the gate, it is only necessary to direct the gate toward a closed position, the latching operation being automatic. To open the gate from a vehicle, the operator grasps one of the handles 31 or 32 and pulls downwardly thereon, first withdrawing the latch 15 from the striker 14 and then by a continued pull moves the gate to an open position always in a direction away from the side approached, where the latch 15 is engaged and held by strikers 33 and 34 on the posts 28 and 30. The operation to close the gate is identical with the operation to open it, the latch being released from the striker and the gate closed by a continued pull on the rope.

Having thus described my invention, what I claim as new therein and desire to secure by Letters Patent of the United States therefor, is—

In a farm-gate, a gate hinged to a fixed post, a latch carried by the gate, a lever pivoted to the gate and to the latch, a cable secured to the lower end of said lever and to the top of the gate near its hinged end, and held out of a straight line by a support inter-

mediate of its ends, a second lever pivoted transversely on the top of the gate, ropes connecting its ends with the latch-operating lever, ropes fixed to its ends and extended
5 through direction-pulleys to a point along the roadway a considerable distance from the gate, a post having a striker to hold the

gate in a closed position and posts having strikers to hold the gate in open positions.

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Witnesses:

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