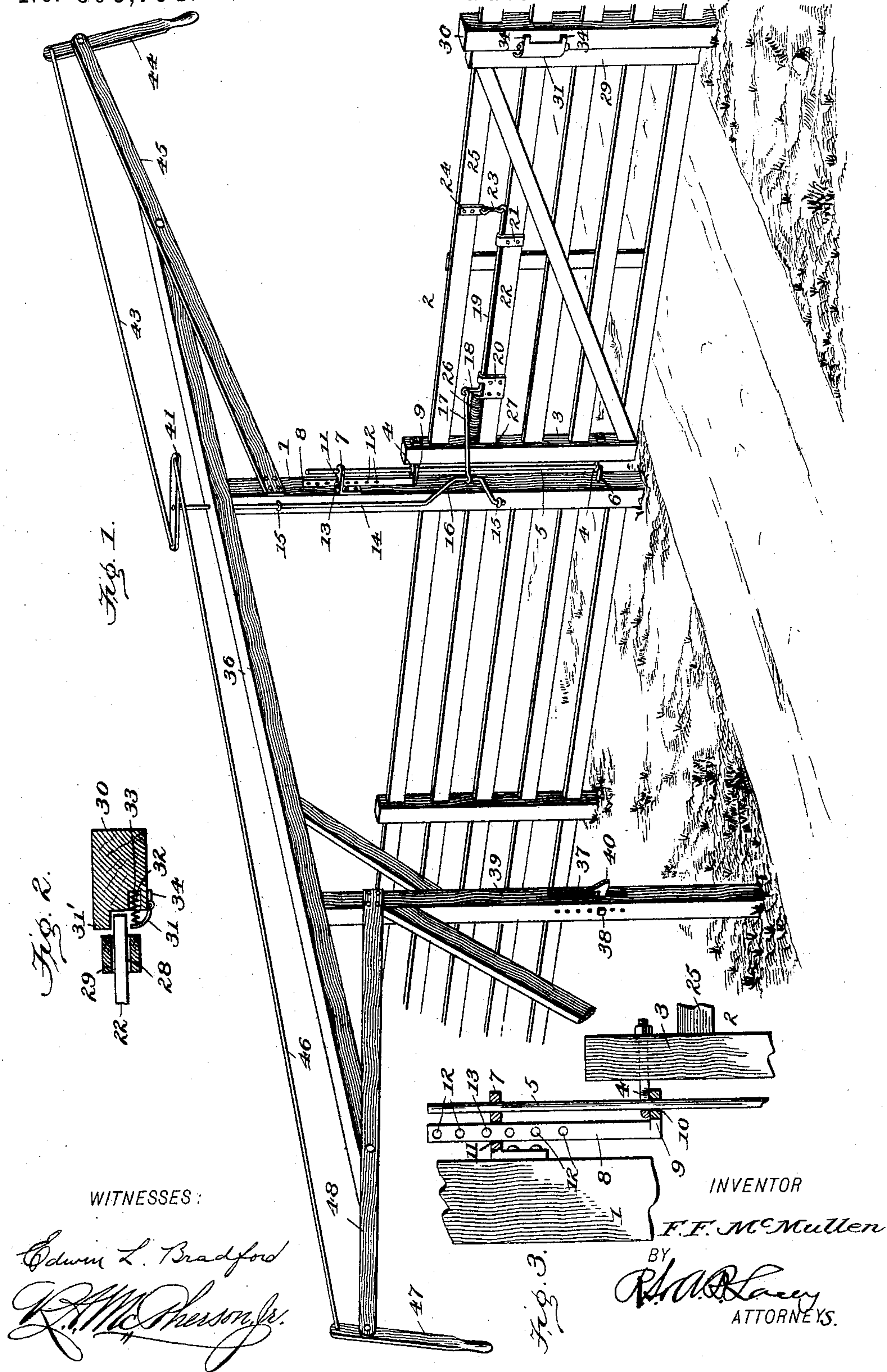


(No Model.)

F. F. McMULLEN.
GATE.

No. 605,794.

Patented June 14, 1898.



WITNESSES:

Edwin L. Bradford
L. M. Sherson, Jr.

INVENTOR

F. F. McMullen

BY

R. A. Lacey
ATTORNEYS.

UNITED STATES PATENT OFFICE.

FRANCIS FLOOD McMULLEN, OF BONDVILLE, ILLINOIS.

GATE.

SPECIFICATION forming part of Letters Patent No. 605,794, dated June 14, 1898.

Application filed July 15, 1897. Serial No. 644,700. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS FLOOD McMULLEN, a citizen of the United States, residing at Bondville, in the county of Champaign and State of Illinois, have invented certain new and useful Improvements in Gates; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in farm and garden gates, and more particularly to that class of gates that may be opened at a distance by a person mounted or in a vehicle, and the object is to provide a simple, cheap, and effective gate of this class.

To these ends the invention consists in the construction, combination, and arrangement of the same, as will be hereinafter more fully described, and particularly pointed out in the claim.

In the accompanying drawings the same reference characters indicate the same parts of the invention.

Figure 1 is a perspective view of a gate embodying my invention. Fig. 2 is a detail section of the keeper. Fig. 3 is a side elevation of the gate-supporting devices.

1 represents the main post to which the gate proper is hinged.

2 represents the gate. Its rear standard 3 is provided with two horizontal eyebolts 4 4, the alined eyes of which encompass a vertical rod 5, the angular arm 6 of which is fixed in the main post 1 and forms a support for the lower eyebolt 4, while its upper end 5 extends through a guide-bracket 7, secured to the inner face of the post. A vertical bar 8 is formed on its lower end with an integral angular arm 9, provided with a vertical eye 10, which encompasses the rod 5 and at the same time forms a support for the upper eyebolt 4, which in turn supports the upper end of the gate. This bar 8 extends upward through a rectangular guide-orifice 11 in the bracket 7, and it is provided with a series of orifices 12 12, in one of which is secured a pin 13, which rests upon the upper face of the bracket 7 and supports the weight of the gate, and by means of these orifices the height of the gate may be adjusted at will.

14 represents a vertical crank-shaft jour-

naled in the brackets 15 15, fixed in the main post 1, and to its crank-arm 16 is pivoted the rear end of the connecting-rod 17, the forward end of which is pivoted to the vertical arm 18 of a longitudinal rod 19, mounted in the brackets 20 21, fixed on the latch-rail 22, and the front end of this rod 19 is pivoted to the depending end of a connecting-rod 23, pivoted in a bracket 24, depending from the top rail 25.

The rear end of the rod 19 projects beyond the bracket 20 and abuts against a spiral spring 26, which extends between the bracket and the gate-standard 3.

The latch-rail 22 has a free longitudinal movement in a rectangular guide-orifice 27 in the standard 3 and a longitudinal and a vertical movement in the guide-orifice 28 in the front gate-standard 29.

30 represents the fence-post, and 31 represents a curved metal plate pivoted vertically to the post 30, so that its convex face will project into the path of the end of the latch-rail 22, and 32 represents a spiral spring seated in a recess 33 in the post, its free end abutting against the back of the plate to press it outward until the vertical arm 34 of said plate rests against the face of post 30 and which serves as a limit-stop for the forward movement of said plate.

31' represents a vertical bead on the gate-post 30, against which the gate closes.

36 represents a longitudinal brace extending from the main post 1 to a side post 39, fixed on one side of the gate. This post is provided with a keeper 40, which engages the projecting end of the latch-rail 22 to hold the gate when open. This keeper 40 is adjustably secured in a vertical slot 37 in the post 39 by means of a set-screw 38, so that said keeper 40 may be vertically adjusted to correspond to the latch-rail 22.

41 represents a horizontal cross-head fixed on the upper end of the crank-shaft 14, and one end of this cross-head 41 is pivoted to a rod 43, which extends to the shorter arm of a vertical lever 44, fulcrumed on the outer end of an arm 45, fixed to the projecting end of the brace 36 and to post 1. A similar rod 46 extends from the opposite end of said cross-head to a similar hand-lever 47, fulcrumed on the longitudinal arm 48, fixed on the post 39.

When a person approaches the gate, he draws the lower end of the hand-lever 47 forward, which withdraws the latch-rail 22 from the fence-post 30 and swings the gate around 5 at a right angle, so that the projecting end of the latch-rail is caught and held by the keeper 40. After the person has passed through the gate and arrived at the opposite hand-lever he pushes that one forward to release the latch-bar from the keeper and closes 10 the gate.

Although I have specifically described the construction and relative arrangement of the several elements of my invention, I do not 15 desire to be confined to the same, as such changes or modifications may be made as clearly fall within the scope of my invention without departing from the spirit thereof.

Having thus fully described my invention, 20 what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

In a gate, the combination with the hinging-post 1 and the keeper-post 30, of the gate 25 2 hinged to the former and provided with the reciprocating latch-rail 22 to engage the latter, the crank-shaft 15 journaled in bearing-brackets on the hinging-post, the latch-rod 19 mounted in the brackets 20 21 on the latch-rail and pivoted at its front end to the 30 connecting-rod 23, the rod 17 connecting the rear end of the latch-rod and crank-arm 16 of the crank-shaft, the spring 26 bearing against said bracket 20, the cross-head 41 fixed to the crank-shaft, the pivoted levers 44 47, 35 and connections between said levers and cross-head, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

FRANCIS FLOOD McMULLEN.

Witnesses:

FRANK RANKIN,
WALTER C. HARGES.