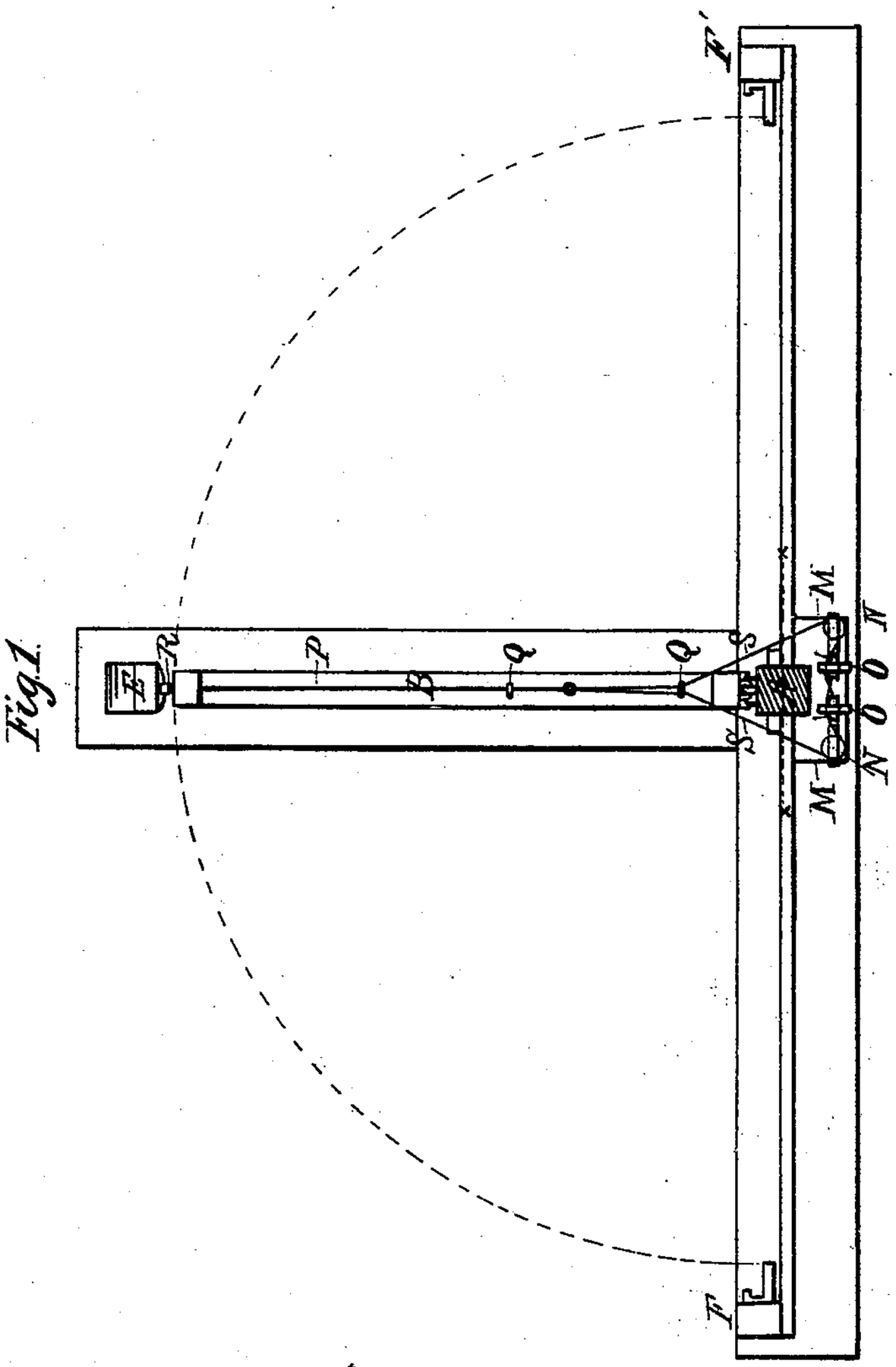
(No Model.) 2 Sheets—Sheet 1.

W. H. TUPPER.

Automatic Gate.

No. 243,660. Patented June 28, 1881.



Witnesses.
H. S. D. Haines
J. W. Garner

Inventor.
W. H. Tupper
By H. J. Ennis
Atty

(No Model.) 2 Sheets—Sheet 2.

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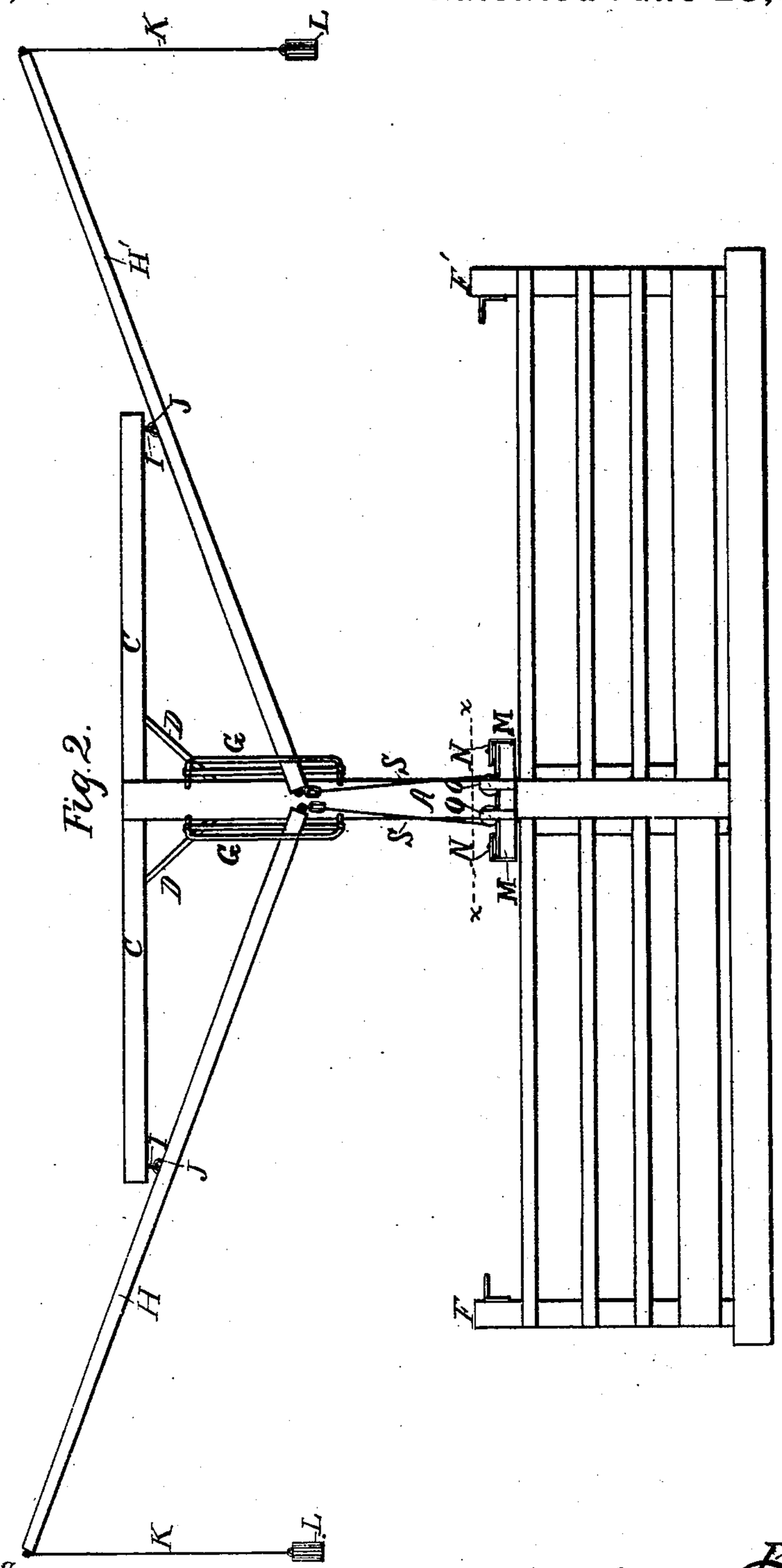
Fig. 2.



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UNITED STATES PATENT OFFICE.

WILLIAM H. TUPPER, OF ST. JOHN'S, ASSIGNOR OF ONE-HALF TO LAWRENCE A. LAWRASON, OF FOWLER, MICHIGAN.

AUTOMATIC GATE.

SPECIFICATION forming part of Letters Patent No. 243,660, dated June 28, 1881.

Application filed May 5, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. TUPPER, a citizen of the United States, residing at St. John's, in the county of Clinton and State of Michigan, have invented certain new and useful Improvements in Automatic 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 is a plan view of a gate embodying my improvements, a portion being shown in section on the line *x x* in Fig. 2; and Fig. 2 is a rear elevation.

This invention relates to gates; and it consists in the improved features of construction and combination hereinafter fully described, and particularly pointed out in the claims.

Referring by letter to the accompanying drawings, A designates the hinge-post of the gate, extending above the top of the gate B, and having a cross-arm, C, secured thereto and braced by braces D D.

E designates the latch-post for securing the gate in a closed position, and F F′ designate latch-posts for holding the gate in an open position, one of said latch-posts F F′ being located at each side of the hinge-post A, and at a suitable distance therefrom. The gate is hinged to the post in the ordinary manner of hinging gates that swing each way, the upper hinge being single and the lower one double.

The hinge-post A is provided, near its upper end, with guides or guards G, preferably of wire, through which the inner ends of the levers H H′ are passed.

The under edges of the outer ends of the cross-arm C have hooks I depending therefrom. The levers H H′ have staples J J, which engage the hooks I to form fulcra for the levers H H′. The outer ends of these levers are provided with cords K, having weights L at their lower ends.

To the rear face of the hinge-post A, and in the same plane with the top rail of the gate, is a platform or support, M, provided near each end with a horizontal pulley, N. Between these pulleys N are mounted two vertical pulleys, O. A wire or rod, P, passing through staples Q upon the upper face of the top rail of the gate connects with the latch R, and is connected by cords or ropes S with the weight ends of the lever H H′. By drawing the lever H down the gate will be thrown open in a direction away from the power end of said lever, and will engage the latch-post at that side of the gate. When the vehicle has passed through the other lever is operated to close the gate. Each lever is adapted to open and close the gate in this manner. The guides G prevent lateral motion of the weight ends of the levers H H′. The levers unloose the latch when operated, and at the same time swing the gate open. When released from the side latch-posts the gate swings shut by gravity, owing to construction of the hinges, which are not herein claimed.

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

1. In a gate, the combination, with the hinge-post A, cross-arm C, and guides G, of the levers H H′ and suitable pulleys and cords for operating the gate, substantially as and for the purposes set forth.

2. In a gate, the combination, with the hinge-post provided with the cross-arm C, and the platform carrying the two vertical and two horizontal pulleys, of the levers H H′, rod P, and gate, and the cords for connecting the wire and levers, substantially as and for the purposes set forth.

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

WILLIAM H. TUPPER.

Witnesses:
JOHN HICKS,
CHARLES BENGEL.