

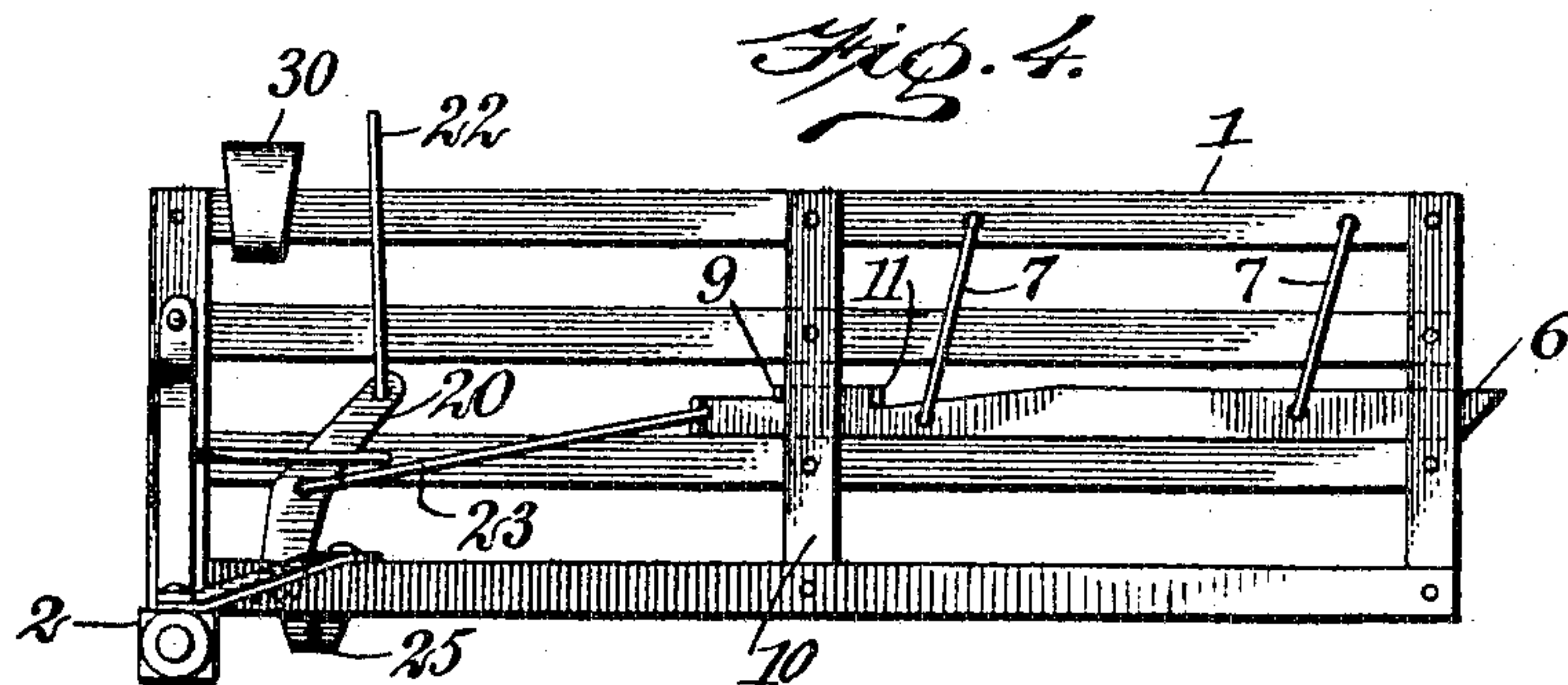
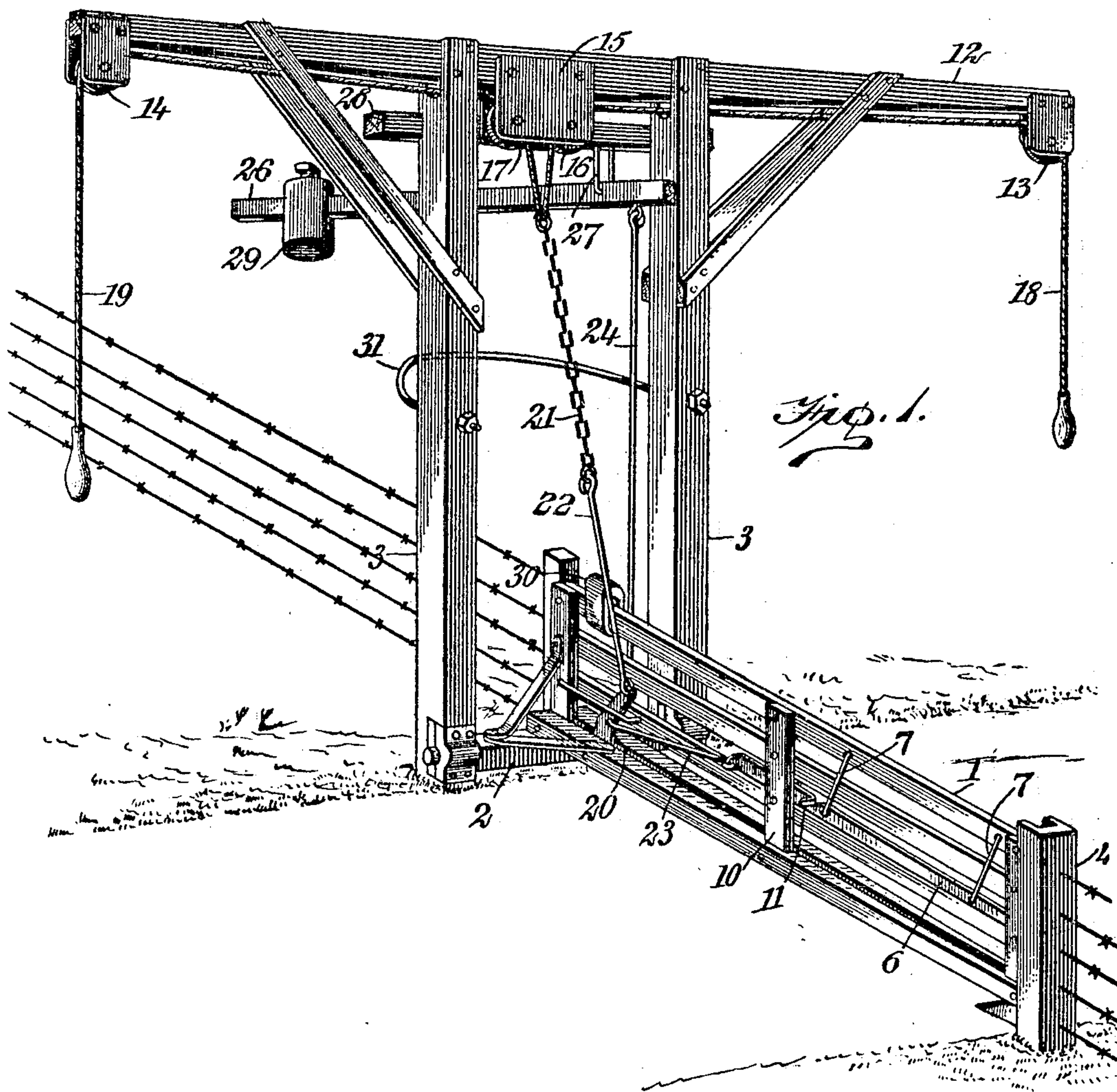
No. 798,846.

PATENTED SEPT. 5, 1905.

T. J. VAN PELT.
GATE.

APPLICATION FILED MAY 25, 1905.

2 SHEETS—SHEET 1.



WITNESSES:

H. G. Dieterich
C. R. Ferguson

INVENTOR

Thomas J. Van Pelt

BY

Mumme

ATTORNEYS

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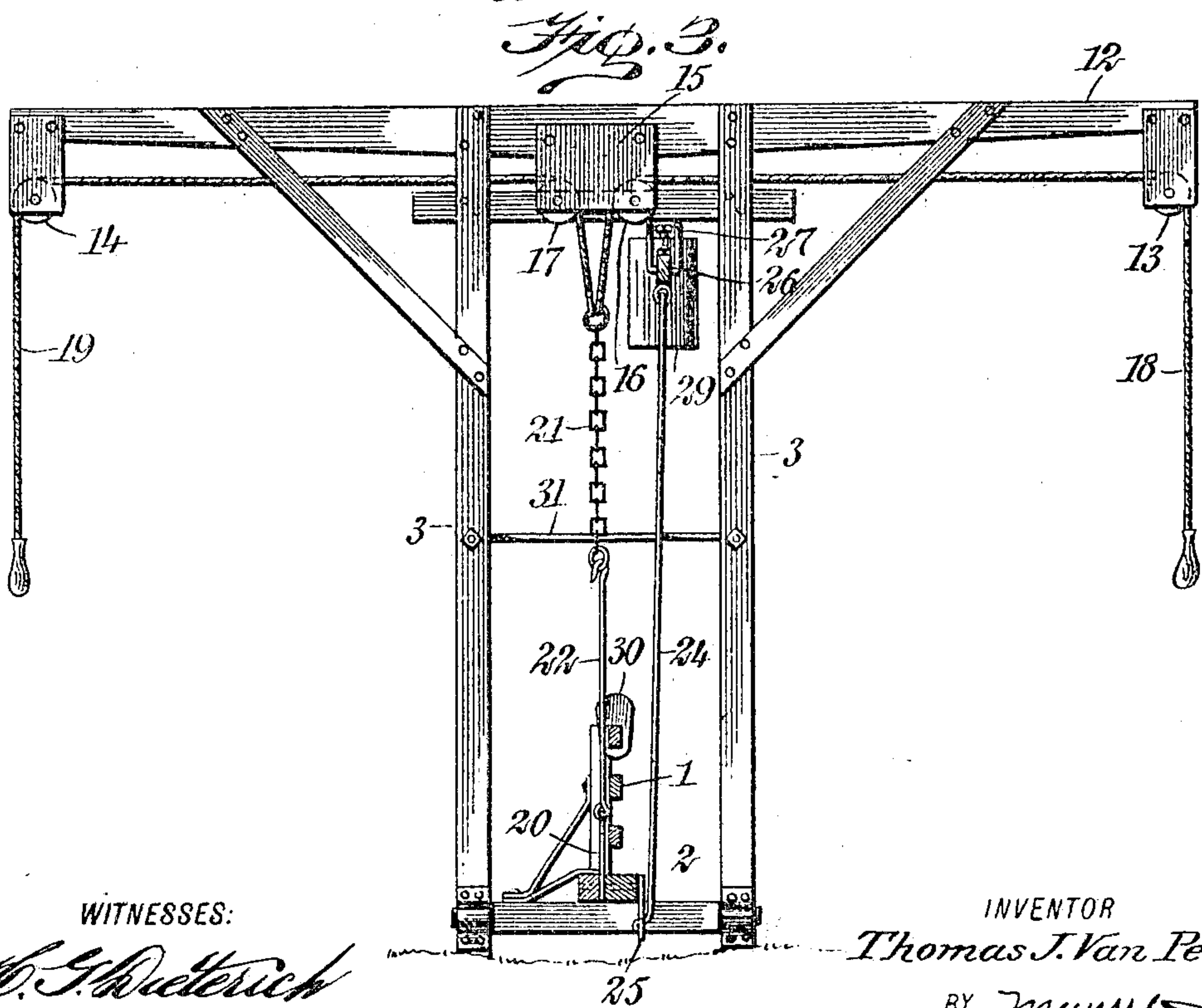
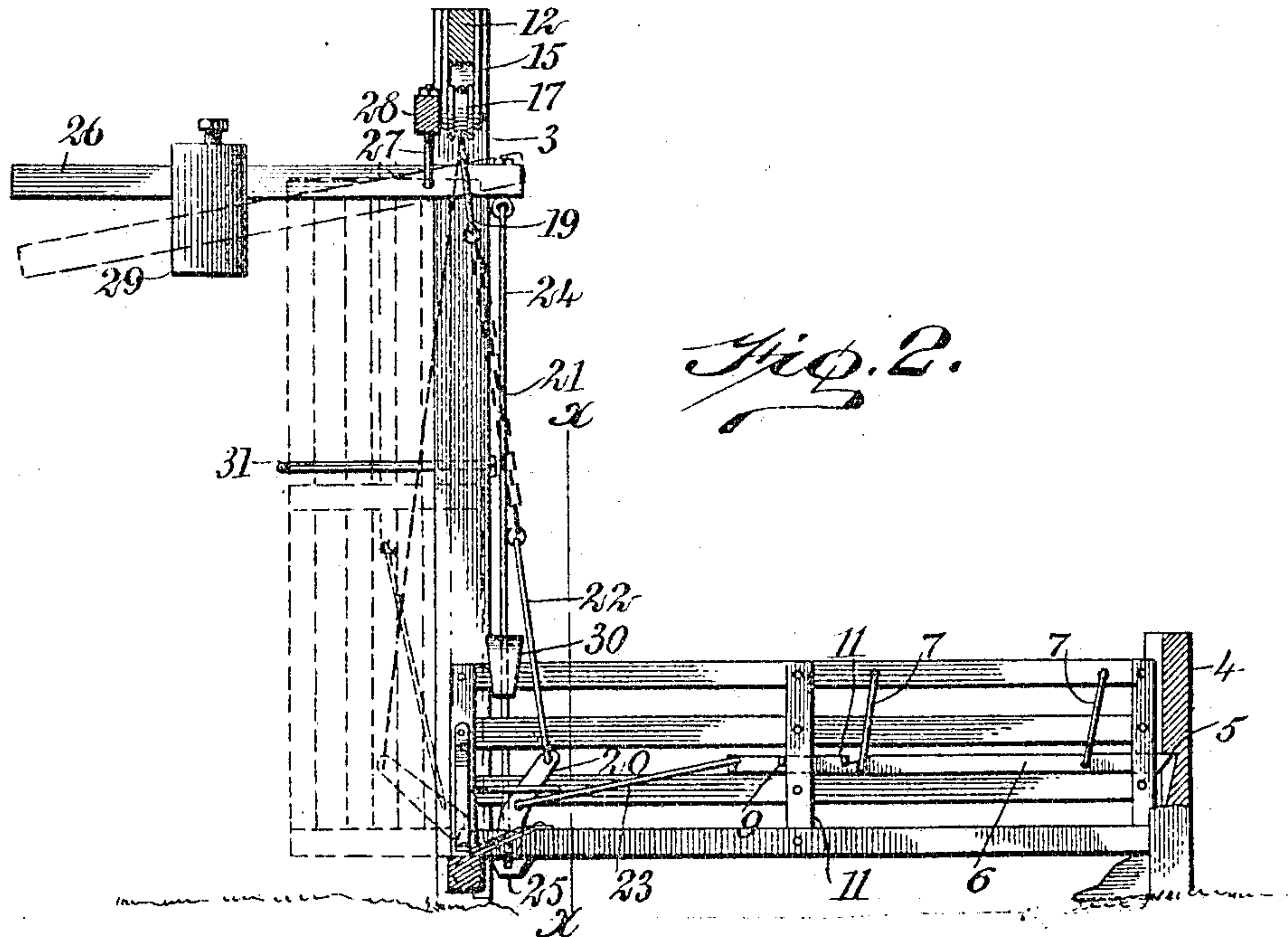
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UNITED STATES PATENT OFFICE.

THOMAS J. VAN PELT, OF STATE CENTER, IOWA.

GATE.

No. 798,846.

Specification of Letters Patent.

Patented Sept. 5, 1905.

Application filed May 25, 1905. Serial No. 262,159.

To all whom it may concern:

Be it known that I, THOMAS J. VAN PELT, a citizen of the United States, and a resident of State Center, in the county of Marshall and State of Iowa, have invented a new and Improved Gate, of which the following is a full, clear, and exact description.

This invention relates to improvements in farm-gates of the vertically-swinging type adapted to be opened or closed from either side of the gateway by a person in a vehicle, the object being to provide a gate of this character that will be practically automatic in operation, simple in construction, and having no parts liable to get out of order, broken, or interfered with by snow or ice.

I will describe a gate embodying my invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of a gate embodying my invention. Fig. 2 is a side view thereof, partly in section. Fig. 3 is a section on the line *x x* of Fig. 2, and Fig. 4 is a side view of the gate detached from its operating devices.

Referring to the drawings, 1 designates a gate of the usual bar type, the rear end of which is connected to a rock-bar 2, having bearings in uprights 3, between which the gate is designed to swing when moved upward. The free or front end of the gate when down engages in a channel of a post 4, in which is a stop or shoulder 5 for engaging with a latch-bar 6, movable longitudinally between bars of the gate, the outer end of said latch-bar being beveled at the under side, so that when engaging with the post the latch-bar will be moved inward as the gate moves downward in order to pass underneath the shoulder 5. As here shown, the latch-bar 6 is supported by swinging hangers 7, attached at one end to said latch-bar and at the other end to the top bar or rail of the gate. The latch-bar is limited in its movements in a forward direction by means of a lug 9 thereon, adapted to engage with the center post 10 of the gate, and it is limited in its opposite movements by means of a lug 11, designed to engage with the front side of said center post.

Attached to the uprights 3 and extended

transversely of the gate or along the road or lane at one side is a bar 12, having sheaves 13 14 at its ends, which are suitably incased to prevent accumulation of snow or the like thereon. At the center of the bar 12 is a facing 15, mounted in which and protected by the same are sheaves 16 17. A draw rope or cable 18 extends over the sheaves 13 and 16, while at the opposite side a draw rope or cable 19 passes over the sheaves 14 and 17. These two draw ropes or cables have connection with an arm 20, pivoted to the lower rail of the gate. As here shown, the connection of said draw ropes or cables comprises a chain 21 and a rod 22. From the arm 20 a link 23 extends to a connection with the rear end of the latch-bar 6, and therefore when either one of the ropes or cables is drawn downward to move the gate upward the latch-bar will be moved out of engagement with the shoulder 5. A rod 24 is attached at its lower end pivotally to a lug 25 on the lower bar of the gate, and at its upper end the said rod 24 connects with a lever 26, fulcrumed on a hanger 27, depending from a cross-bar 28. The rod 24 is connected to the short portion of the lever 26 forward of the hanger 27, and mounted on the long portion of the lever rearward of the hanger is a weight 29, which is made adjustable on the lever, so as to about equal the weight of the gate.

Arranged on the top bar of the gate at the rear end is a balance-weight 30, which will be sufficient to hold the gate in its uppermost or open position, and the gate is limited in its movements between the uprights 3 by means of a curved rod 31, attached to the uprights and projected rearward therefrom in a semi-circle.

In the operation when it is desired to open the gate a comparatively light sharp pull on either one of the cables or ropes 18 19 will release the latch-bar and start the gate in its upward movement, and this upward movement will be continued by a downward movement of the weight 29. It will be noted that while the gate is closed the connection between it and the cables will be forward of the rock-bar 2, or, that is, forward of the fulcrum-point of the gate. When in raised position, as indicated in dotted lines in Fig. 2, the said connection will be at the rear side of the rock-bar, and therefore a slight pull on either one of the ropes or cables 18 19 will

start the gate toward its closing movement, which will continue by gravity, overbalancing somewhat the weight 29.

Having thus described my invention, I claim
5 as new and desire to secure by Letters Patent—

1. In a gate, a pair of uprights, a rock-bar having bearings in said uprights, a gate connected at its rear end to said rock-bar, an arm on the gate, a latch for the gate, a cross-bar
10 mounted on the uprights and extended in opposite directions from the gate, sheaves on said cross-bar, ropes or cables extended from opposite sides over said sheaves and having connection with the lower portion of the gate,
15 a lever having a rod connection with the lower bar of the gate, a weight adjustable on said lever, and means whereby the arm may release the latch.

2. In a gate, uprights, a rock-bar having its
20 bearings in said uprights, a gate connected at its rear end to said rock-bar, a latch-post for

receiving the free end of the gate, the said latch-post having a shoulder, a latch-bar movable lengthwise in the gate and adapted for engagement with said shoulder, an arm mounted to swing on the lower bar of the gate, a link connection between said arm and said latch-bar, a cross-bar connected to the uprights, draw ropes or cables extending in the opposite direction along said cross-bar, a connection between said draw-ropes and said arm,
25 a lever supported by the uprights, a rod connection between the short end of said lever and the lower bar of the gate, and a weight adjustable on the long portion of said lever.
30 35

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THOMAS J. VAN PELT.

Witnesses:

WM. JOHN LISTON,
WILLIAM N. GILBERT.