

No. 833,732.

PATENTED OCT. 23, 1906.

G. W. CROSBY.  
GATE.

APPLICATION FILED MAR. 10, 1906.

2 SHEETS—SHEET 1.

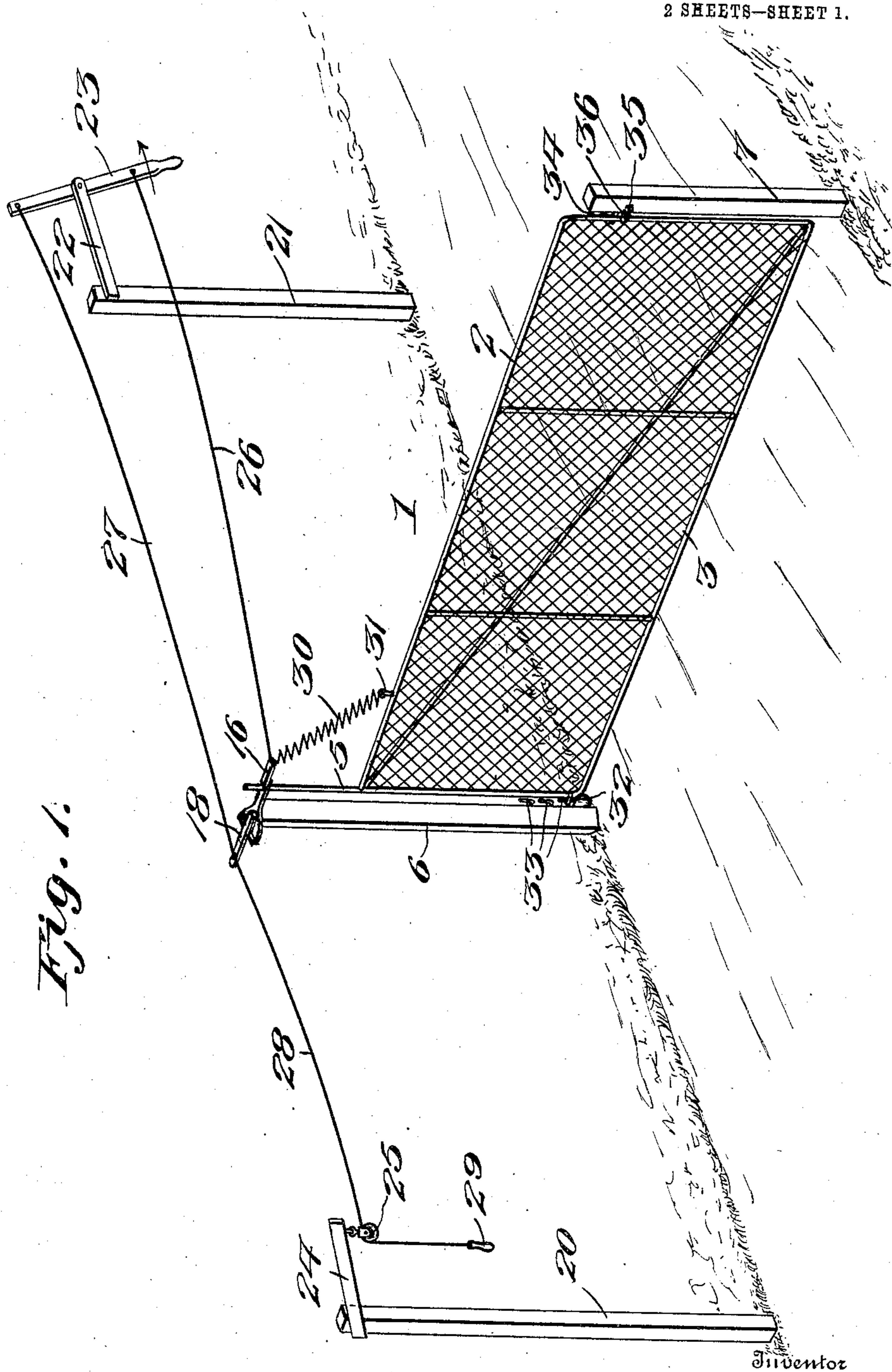


Fig. 1.

Witnesses

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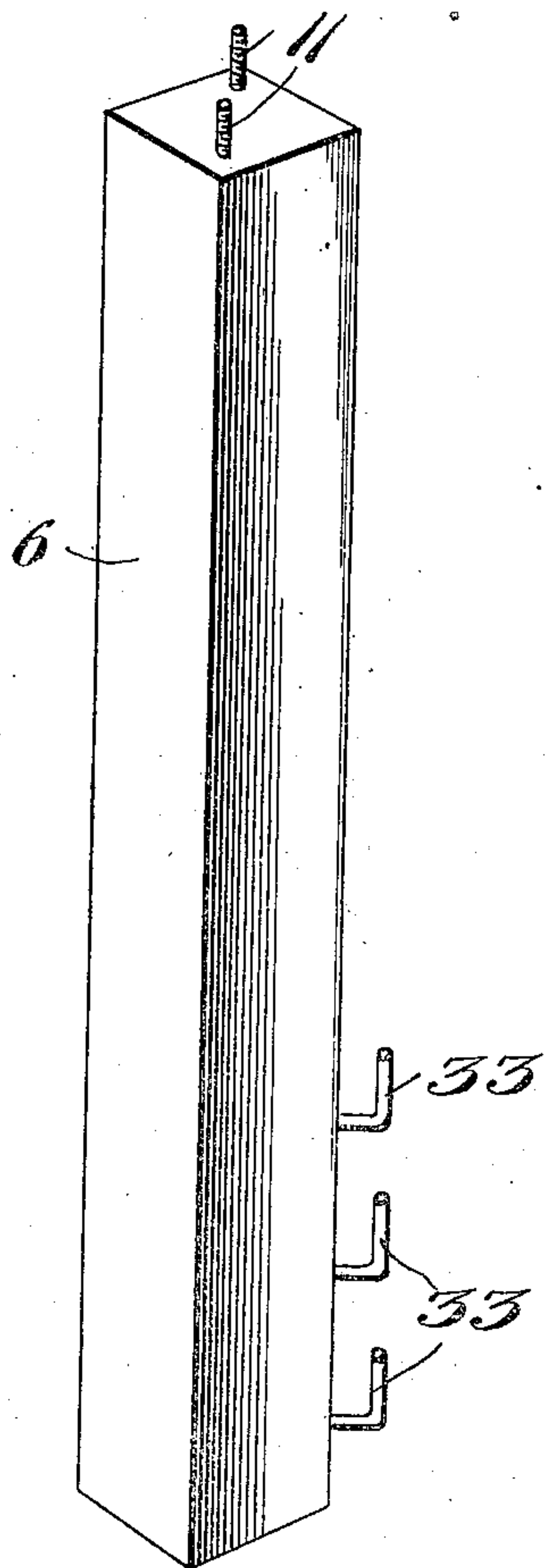
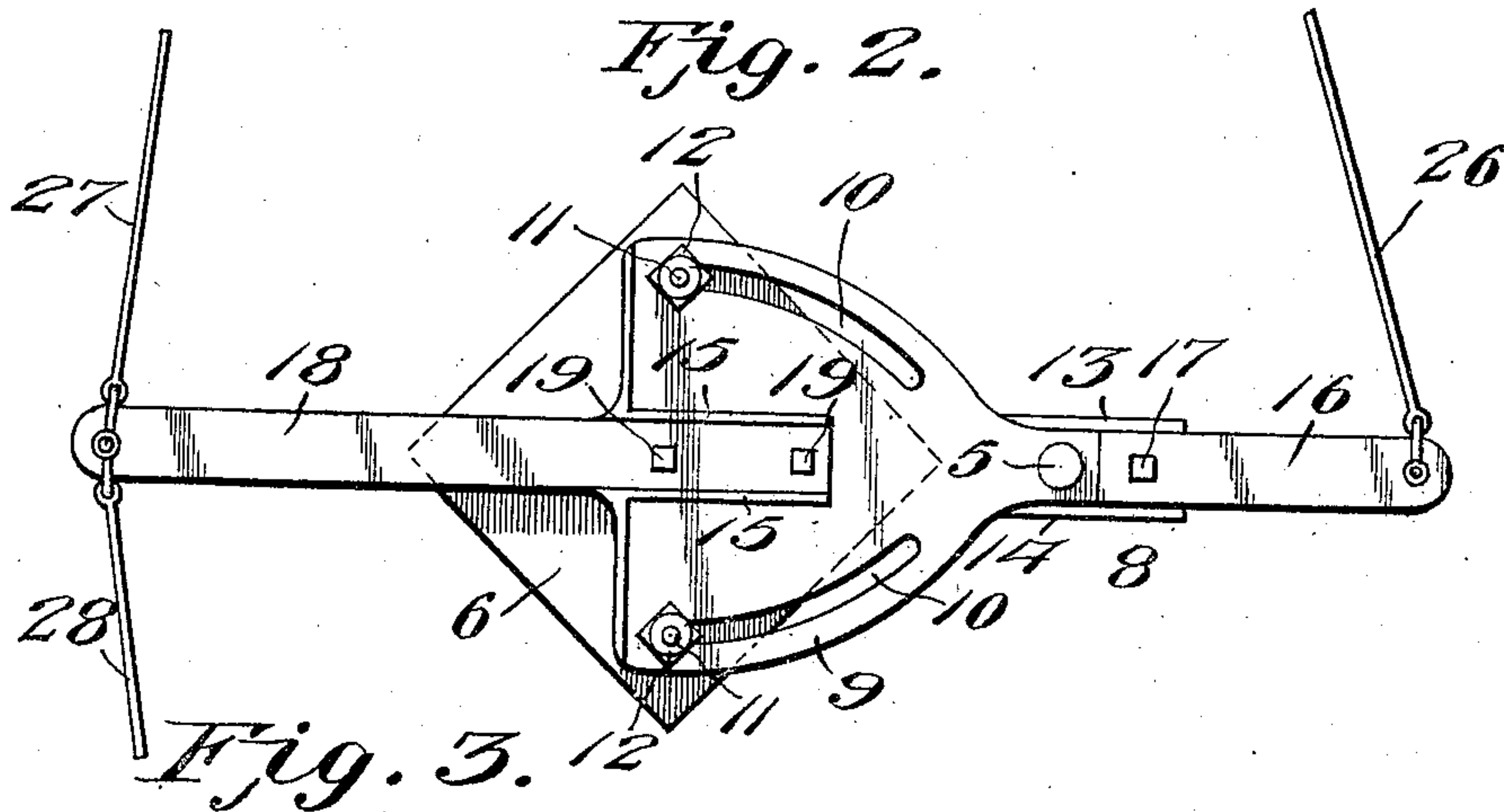
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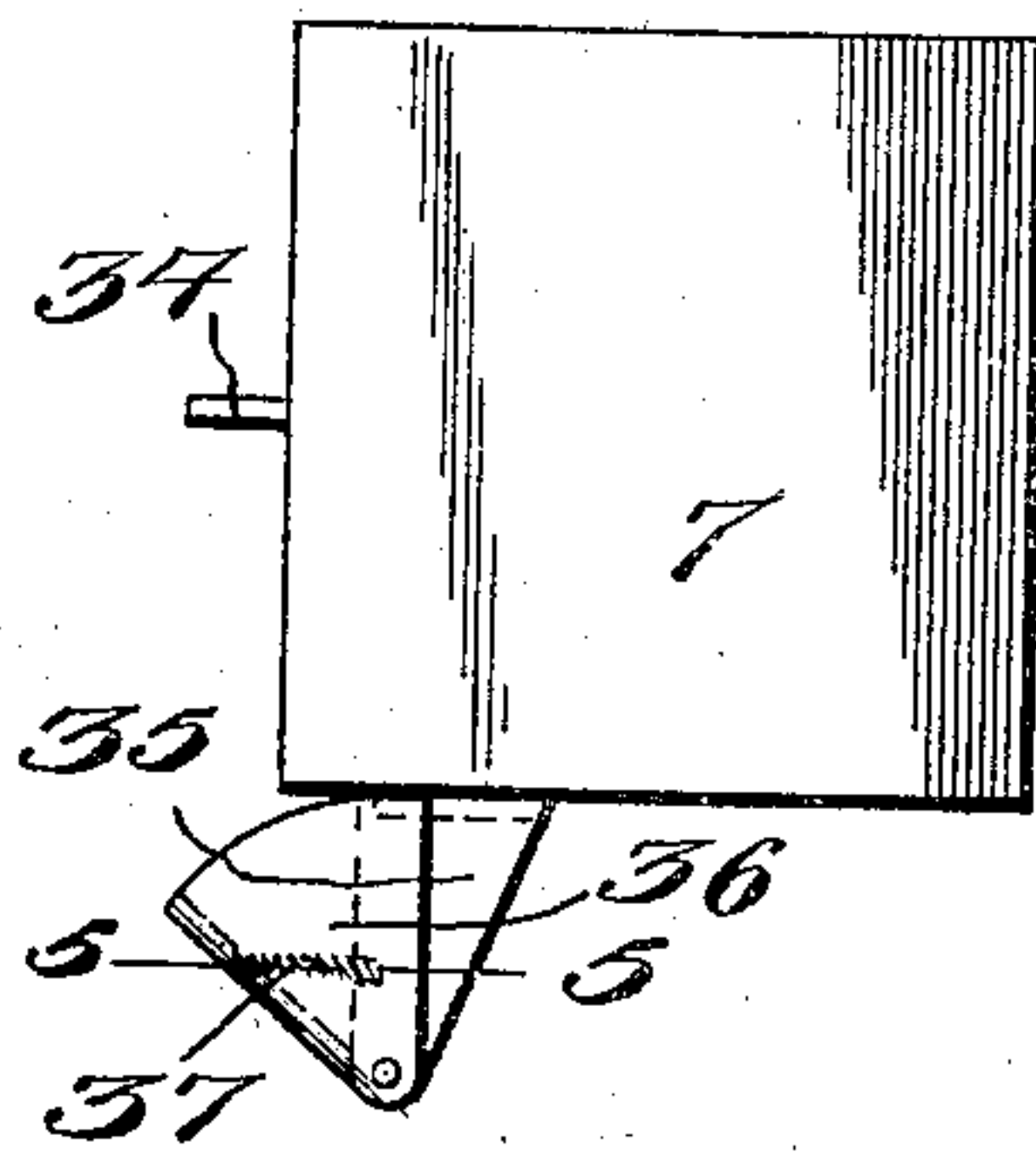
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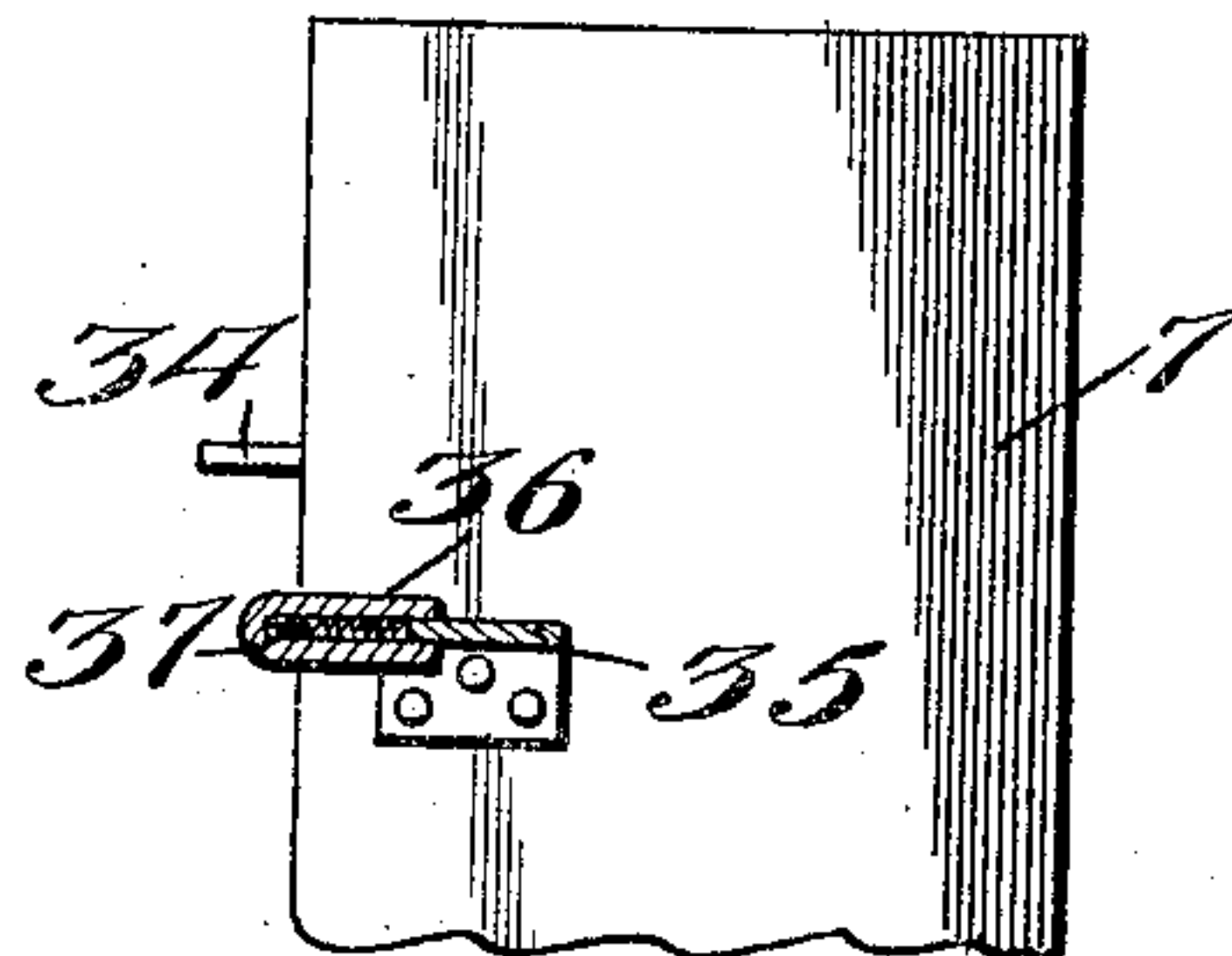
2 SHEETS—SHEET 2.



*Fig. 4.*



*Fig. 5.*



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# UNITED STATES PATENT OFFICE.

GEORGE W. CROSBY, OF HEBER, ARKANSAS.

## GATE.

No. 833,732.

Specification of Letters Patent.

Patented Oct. 23, 1906.

Application filed March 10, 1906. Serial No. 305,423.

*To all whom it may concern:*

Be it known that I, GEORGE W. CROSBY, a citizen of the United States, residing at Heber, in the county of Cleburne and State of Arkansas, have invented new and useful Improvements in Gates, of which the following is a specification.

This invention relation to gates of the type disclosed in Letters Patent No. 762,148, granted to me June 7, 1904, and has for its objects to produce a simple inexpensive device of this character in which the gate-operating member or yoke may be readily connected with the gate and its hinge, one where- in the yoke-arms may when worn or in the event of being broken be readily replaced without discarding the yoke, one in which the arms are rigidly and detachably engaged with the yoke, and one whereby the construction of the parts and operation of the device as a whole is materially simplified and improved.

With these and other objects in view the invention comprises the novel features of construction and combination of parts, more fully hereinafter described.

In the accompanying drawings, Figure 1 is a perspective view of a gate constructed in accordance with the invention. Fig. 2 is a top plan view of the hinge-post and adjacent parts. Fig. 3 is a perspective view of the hinge-post. Fig. 4 is a plan view of the latch-post equipped with an improved latching member. Fig. 5 is a detail side elevation, partly in section, the section being taken on the line 5 5 of Fig. 4.

Referring to the drawings, 1 designates a gate preferably comprising a rectangular metal frame 2, having a wire-fabric covering 3 and provided at its inner end with a vertically-uprising arm 5, said gate being arranged for swinging movement between the hinge-post 6 and a latch-post 7.

Arranged upon the top of the hinge-post 6 is a horizontal gate-operating lever or yoke 8, having a substantially triangular body portion 9, provided with opposite arcuate slots 10, designed to receive pivoting elements or bolts 11, fixed to and arising vertically from the post and threaded for the reception of nuts 12, whereby the lever is retained in movable position on the post, while provided on the yoke is a forward extension or neck 13, having vertical side flanges 14, arranged in axial alinement with parallel vertical flanges 15, extending fore and aft at the center of the yoke and between the slots 10.

Carried by the yoke 8 is a forwardly-extending arm 16, having its inner end seated between the flanges 14 and secured by means of a fastening member or bolt 17, there being also carried by the yoke a rearwardly-extending arm 18, having its inner end seated between the flanges 15 and secured by fastening members or bolts 19, it being noted that the upright 5 at the rear end of the gate extends upward through and is journaled in the forward extension 13 at a point adjacent the rear end of the arm 16, as seen in Fig. 2, while disposed, respectively, at opposite sides of and at points suitably remote from the post 6 is a pair of posts or standards 20 21, of which the latter is provided with a horizontal bracket-arm 22, extended parallel with the roadway and having centrally pivoted to its outer end an operating-lever 23, while the post 20 is provided with a horizontal bracket-arm 24, extended transversely of the roadway and carrying at its outer end a guide-pulley 25.

Engaged at one end with the outer end of arm 16 is a flexible traction element or cable 26, having its other end engaged with the lower end of lever 23, while engaged with the upper end of said lever is one end of a flexible traction element 27, having its other end connected with the outer terminal of arm 18, in which is also connected one end of a traction element 28, extended to and passed around the guide-pulley 25 and equipped at its free end with an end piece 29, there being also engaged with the outer end of arm 16 the upper end of a spring 30, having its lower end connected, as at 31, with the gate at a point in advance of and suitably remote from the standard 5.

Attached to the lower rear end of the gate at a point adjacent its lower edge is a hinge member or eye 32, adapted for pivotal engagement with any one of a series of vertically-spaced pintle members 33, fixed at the lower end of the post. Fixed upon the latch-post 7 adjacent its upper end is a rearwardly-projecting stop member or pin 34, with which the gate contacts when in closed position, there being fixed at one side face of the post 7 a horizontal bracket-arm 35, having pivoted thereto a latch member 36, preferably composed of sheet metal and of substantially sector shape, as shown, and normally held in latching position by means of a spring 37.

In practice when the lower end of lever 23 is moved in the direction indicated by the arrow in Fig. 1 traction will be exerted on the



element 26 for swinging the front end of arm 16 to the right, thereby moving the upper end of standard 5 rearwardly and laterally and at the same time acting through spring 5 30 to lift the forward end of the gate out of engagement with stop 34, whereupon the gate will swing by gravity to open position, as usual, while, on the other hand, if the lower end of lever 23 be moved in a direction re- 10 versely to that indicated by the arrow traction will be exerted on the element 27 for swinging the rear end of arm 18 to the right and imparting a reverse movement to the arm 16, whereupon the gate will be lifted out 15 of engagement with latch 36 and will swing by gravity in a reverse direction to open position. If traction be exerted upon the free end of element 28, the parts will be actuated for opening the gate in the manner and in the 20 direction first explained.

From the foregoing it is apparent that I produce a simple device admirably adapted for the attainment of the ends in view, it being understood that in attaining these ends 25 minor changes in the details herein set forth may be resorted to without departing from the spirit of the invention.

Having thus fully described my invention, what I claim as new is—

30 1. The combination with a gate and its hinge-post of a horizontal operating-lever provided with opposite cam-slots, fastening members engaged with the top of the post and entered through said slots for securing 35 the lever movably in place, said lever having forwardly and rearwardly projecting arms and the gate being provided with an uprising standard pivotally engaged with the forward arm of the lever at a point between its ends, 40 hinge connections between the lower end of the gate and post, a standard planted at a point in line with and remote from the hinge-post, an operating-lever centrally and pivot-

ally connected with the standard, and traction elements engaged respectively with the 45 front and rear arms of the gate-operating lever and having their other ends connected with the second lever at points respectively above and below its pivot.

2. The combination with a gate and its 50 hinge-post, of a horizontal gate-operating member provided with opposite arcuate slots and having a forwardly-extending portion provided with side flanges, a pair of spaced 55 flanges extending forwardly from the rear edge of the member in line with the extension, vertical pivoting members fixed to the upper end of the post and projecting through the slots for bolting the member movably in 60 place, a forwardly-extending arm having its inner end connected between the flanges of the extension, a rearwardly-extending arm having its inner end connected between the flanges, a hinge connection between the lower 65 end of the gate and post, said gate being provided with a vertical standard journaled in the forward extension of the operating member, a pair of posts disposed respectively at opposite sides of and remote from the hinge- 70 post, a guide-pulley connected on one of the posts, a flexible element threaded through the guide and engaged at one end with the rear arm of the operating member, an operating-lever centrally pivoted between its ends 75 on the other post, a pair of traction elements engaged respectively with the outer ends of the front and rear arms of the operating member and connected with the lever at points respectively above and below the fulcrum of 80 the latter.

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

GEORGE W. CROSBY.

Witnesses:

ROBERT G. CHANDLER,  
W. C. WILLIAMS.