No. 841,077. PATENTED JAN. 8, 1907.

W. T. DOTSON.

GATE.

APPLICATION FILED JUNE 25, 1906.

2 SHEETS—SHEET 1.

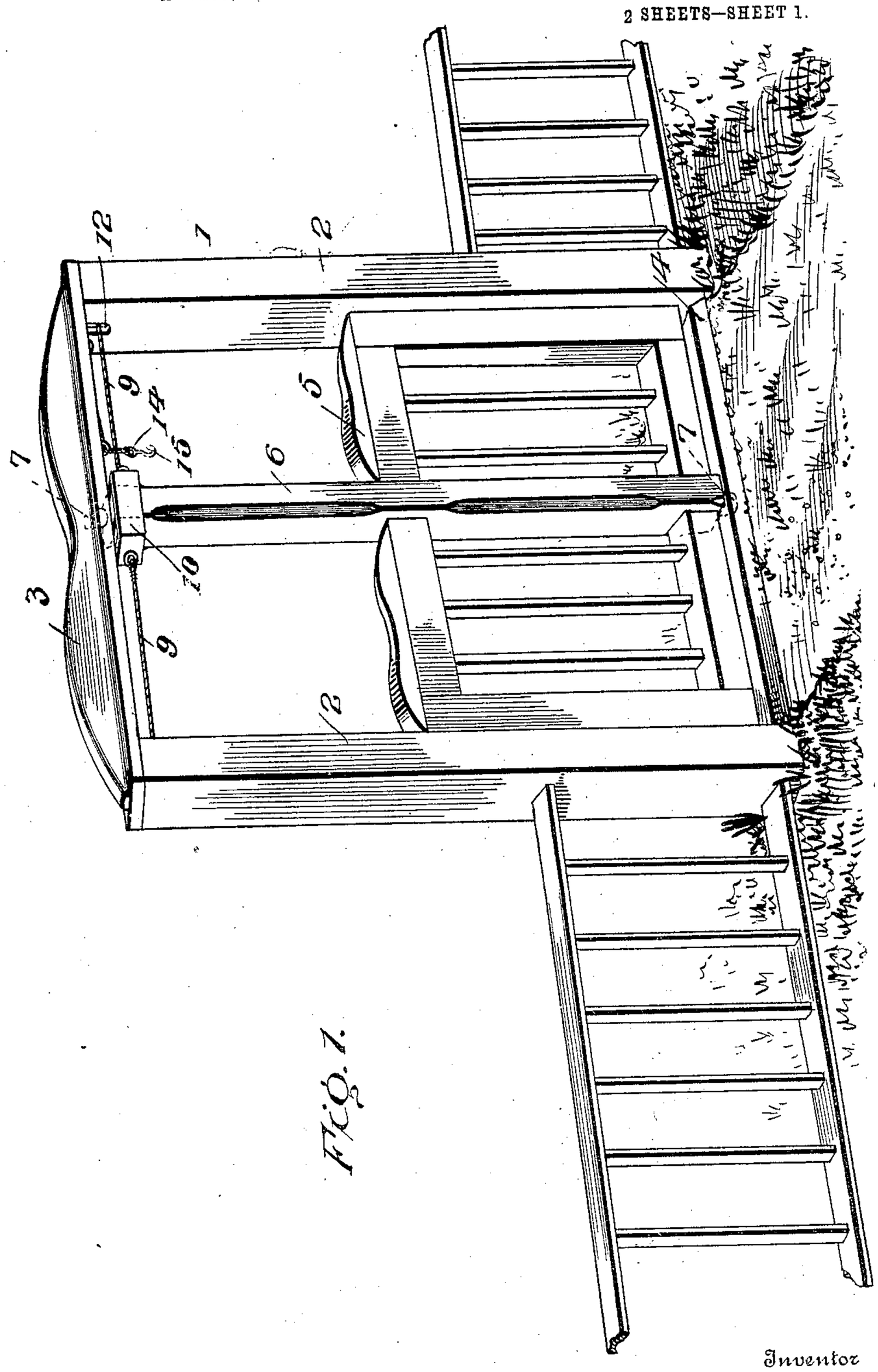

Fig. 1.

Witnesses

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2 SHEETS—SHEET 2.

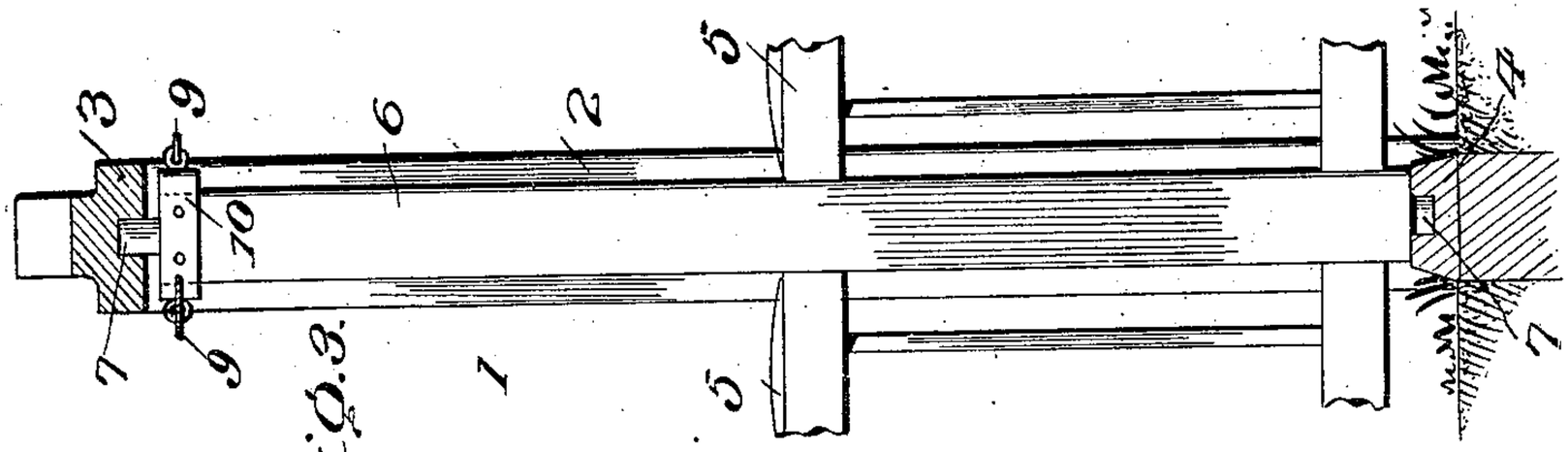

FIG. 3.

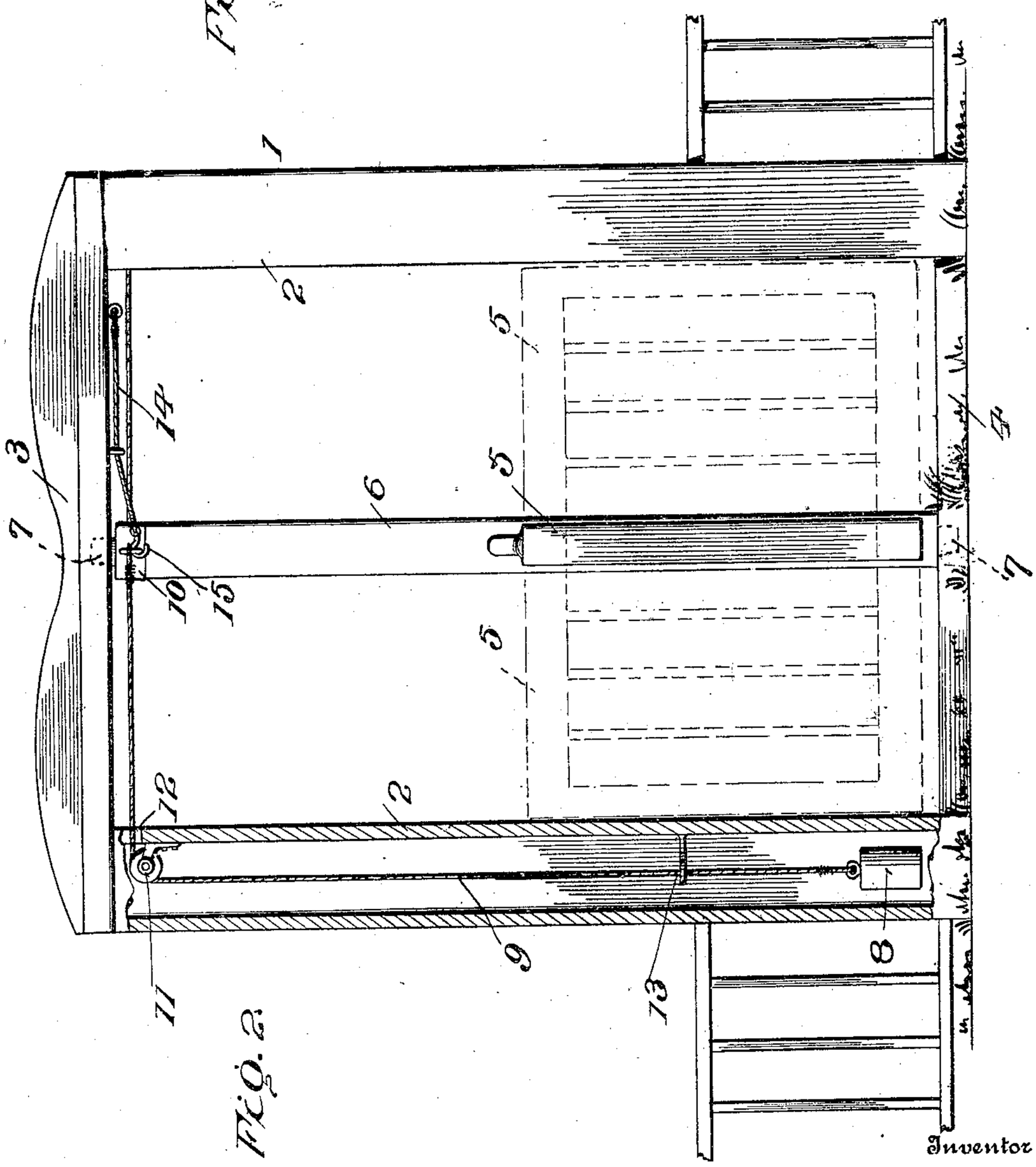

FIG. 2.

Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM T. DOTSON, OF MANASSA, COLORADO, ASSIGNOR OF ONE-FOURTH TO WILBUR SOWARDS AND HARMON SOWARDS, OF MANASSA, COLORADO.

GATE.

No. 841,077. Specification of Letters Patent. Patented Jan. 8, 1907.

Application filed June 25, 1906. Serial No. 323,362.

To all whom it may concern.

Be it known that I, WILLIAM T. DOTSON, a citizen of the United States, residing at Manassa, in the county of Conejos and State of Colorado, have invented certain new and useful Improvements in Gates, of which the following is a specification.

This invention embodies novel improvements in gates, and the essential features of the invention reside in novel details of construction the structure and advantages of which will appear more fully as the description proceeds.

For a full understanding of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and accompanying drawings, in which—

Figure 1 is a perspective view of a gate embodying the invention. Fig. 2 is a side elevation showing the gate in open position and held open by means provided especially for this purpose. Fig. 3 is a vertical section through the gate centrally thereof.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Specifically describing the invention and referring to the drawings, the numeral 1 designates a gate-frame which comprises the spaced vertical uprights 2 and the upper and lower connecting or cross bars 3 and 4, respectively. The gate is indicated at 5 and is adapted for rotation, being supported by means of a gate-bar 6, from which the opposite end portions of said gate project. The gate-bar 6 has its upper and lower extremities formed with journals mounted in bearings 7 in the upper and lower bars 3 and 4 of the frame 1. It will be apparent from the foregoing that each end of the gate 5 being free same is adapted to yield to pressure from either direction, so that the gate may open in any desired direction.

In order to normally hold the gate 5 closed, it is designed to connect weights 8 therewith, said weights being arranged to move up and down on the uprights 2 of the frame 1 and being connected by flexible connections, such as ropes 9, cords, or the like, with a band 10 attached to the upper end of the gate-post 6. The connections 9 pass over sheaves or pulleys 11, located at the upper end portion of the uprights 2, and from thence extend through transverse openings 12 in said uprights and near the sheaves or pulleys 11 aforesaid. The weights 8 are prevented from swinging by means of U-shaped guides 13, receiving the connections 9 at the pendent portions thereof. The connections 9 being secured to opposite sides of the band or member 10, attached to the upper end of the gate-post 6, it will be obvious that when the gate 5 is forced open in either direction the weights 8 will be elevated a short distance and will exert a normal tendency to close the gate as soon as pressure thereon is relieved. The weights 8 therefore constitute means for automatically closing the gate, and the operation of these weights will be readily apparent. Under some conditions it may be desirable to hold the gate 5 open temporarily, and for this purpose it is contemplated to provide a short flexible member 14, one end of which is attached to the top bar 3 of the gate-frame 1 and the other end of which is provided with a hook 15, adapted to engage a side portion of the band 10 after the gateh as been opened, and thereby prevent the gate from swinging closed. The arrangement of the member 14 and its operation are simple and provide an extremely advantageous means for accomplishing the desired result.

Having thus described the invention, what is claimed as new is—

1. In combination, a gate-frame comprising spaced uprights and top and lower bars connecting said uprights, a gate arranged between the uprights, a gate-bar having journals at its upper and lower ends mounted in bearings in the upper and lower bars of the gate-frame, weights movable on the uprights of the gate-frame, flexible connections connected at one end with the weights and having the other end attached to the upper portion of the gate-bar, sheaves or pulleys attached to the upper portion of the uprights and having the flexible connections passing thereover, and guides attached to the outer side of the gate-frame and having flexible connections passing therethrough.

2. In combination, a gate-frame comprising spaced uprights and top and lower bars connecting said uprights, a gate arranged between the uprights, a gate-bar having journals at its upper and lower ends mounted

in bearings in the upper and lower bars of the gate-frame, weights movable on the uprights of the gate-frame, flexible connections connected at one end with the weights and having the other end attached to the upper portion of the gate-bar, sheaves or pulleys attached to the upper portion of the uprights and having the flexible connections passing thereover, guides attached to the gate-frame and having the flexible connections passing therethrough, and a member secured at one end to the gate-frame and provided at its opposite end with engaging means to connect with the upper portion of the gate-post to hold the same in an open position.

3. In combination, a gate-frame comprising spaced uprights, a gate arranged between the uprights, a gate-bar having journals at its upper and lower ends mounted in the gate-frame, weights connected with the upper end portion of the gate-bar to normally hold the same in closed position, and means for holding the gate in an open position temporarily and comprising a member secured at one end to the gate-frame and having an engaging member at its opposite end to connect with the gate-post.

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

WILLIAM T. DOTSON. [L. S.]

Witnesses:

EMILY C. FOSTER,

HENRY FOSTER.