

No. 695,531.

Patented Mar. 18, 1902.

R. H. BERKSTRESSER.

GATE.

(Application filed June 18, 1901.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.

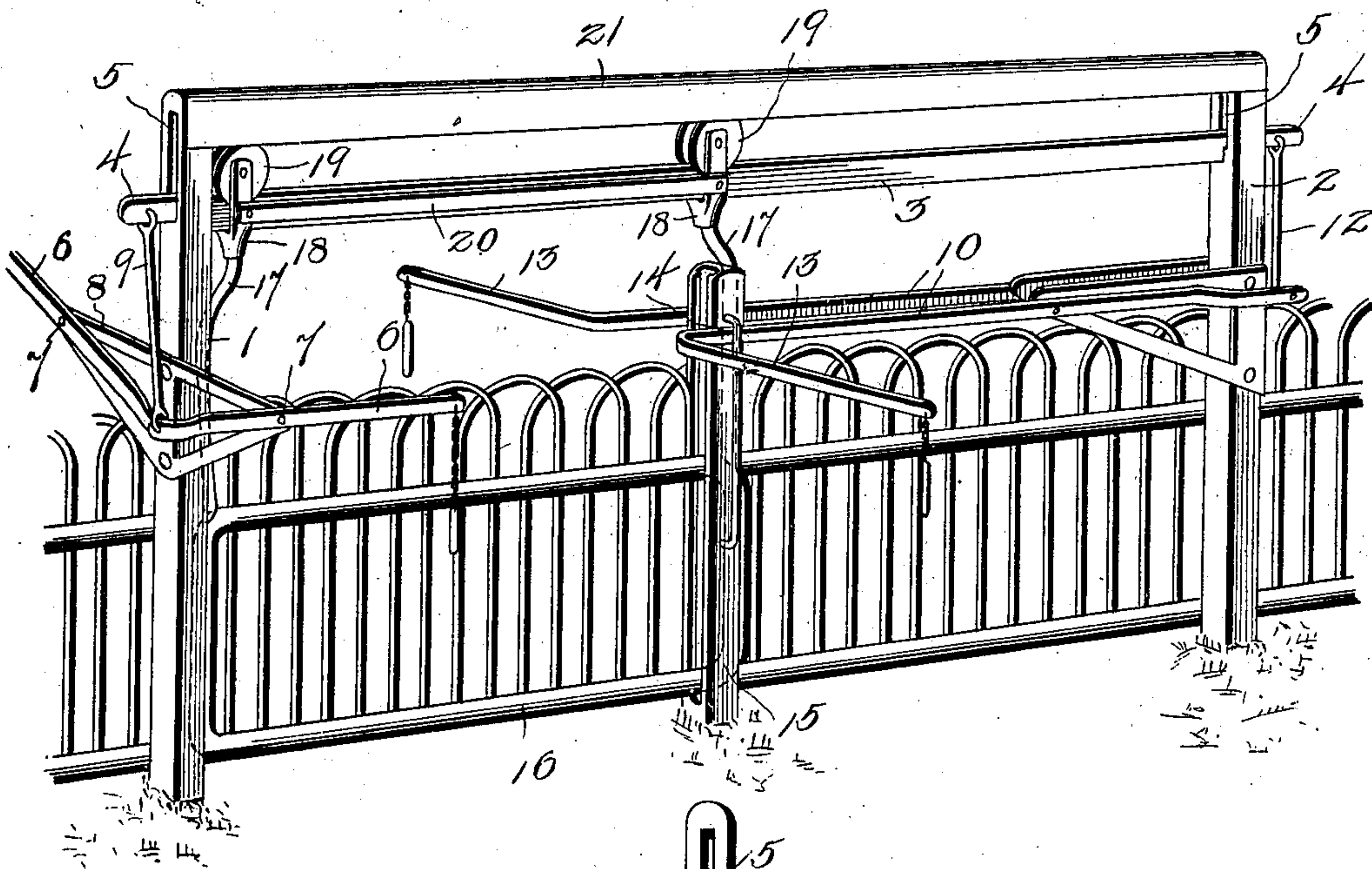
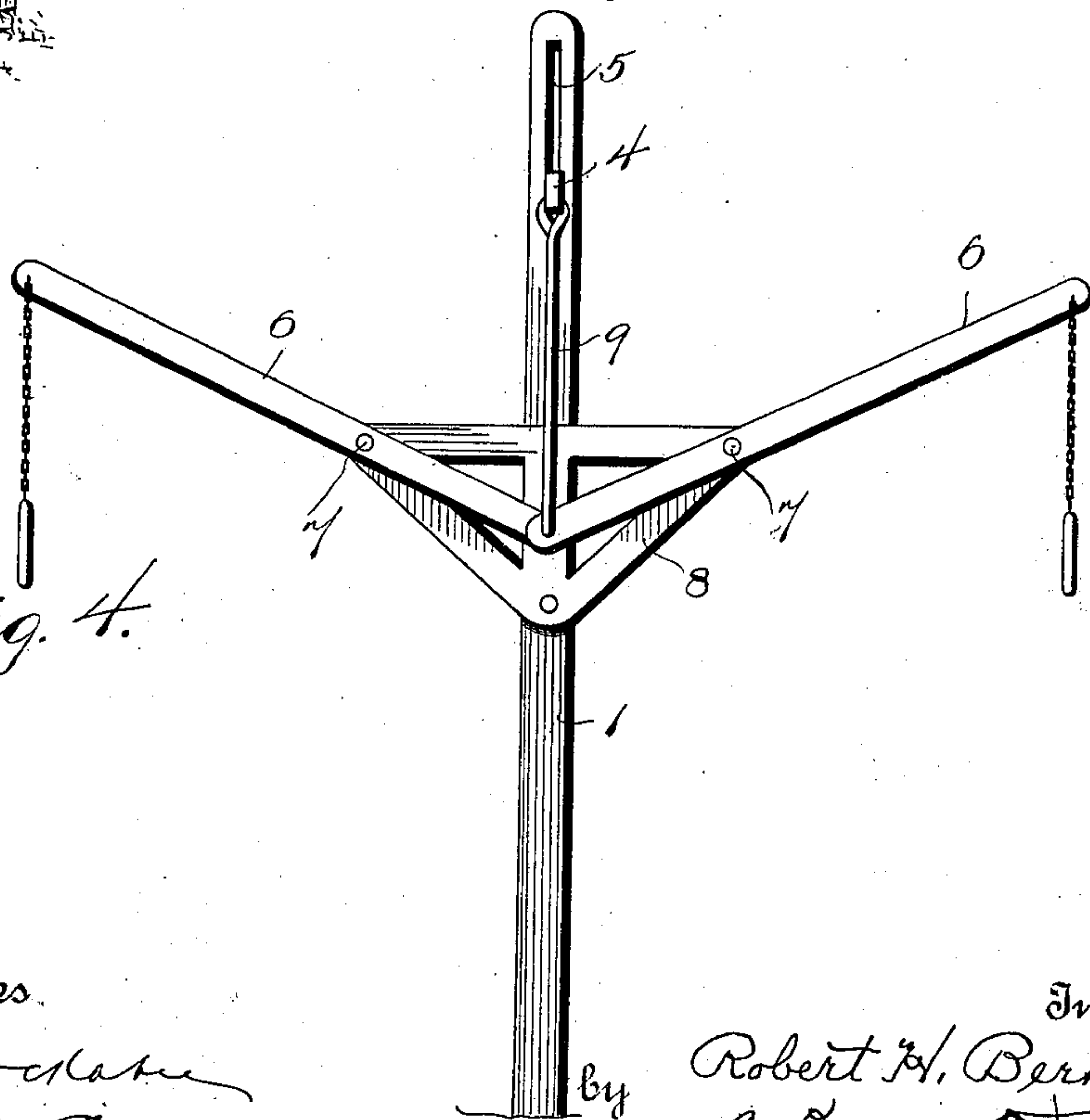
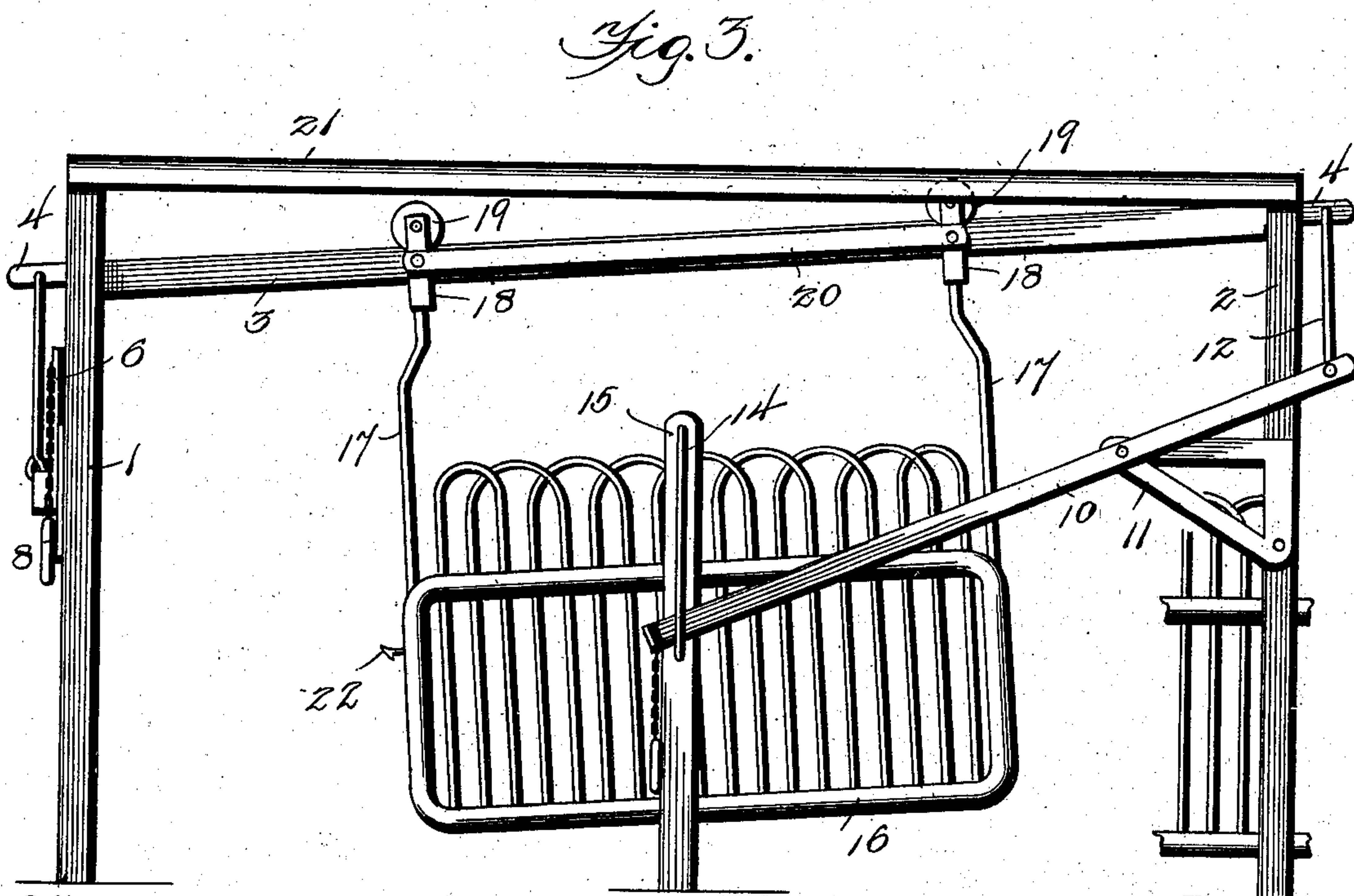
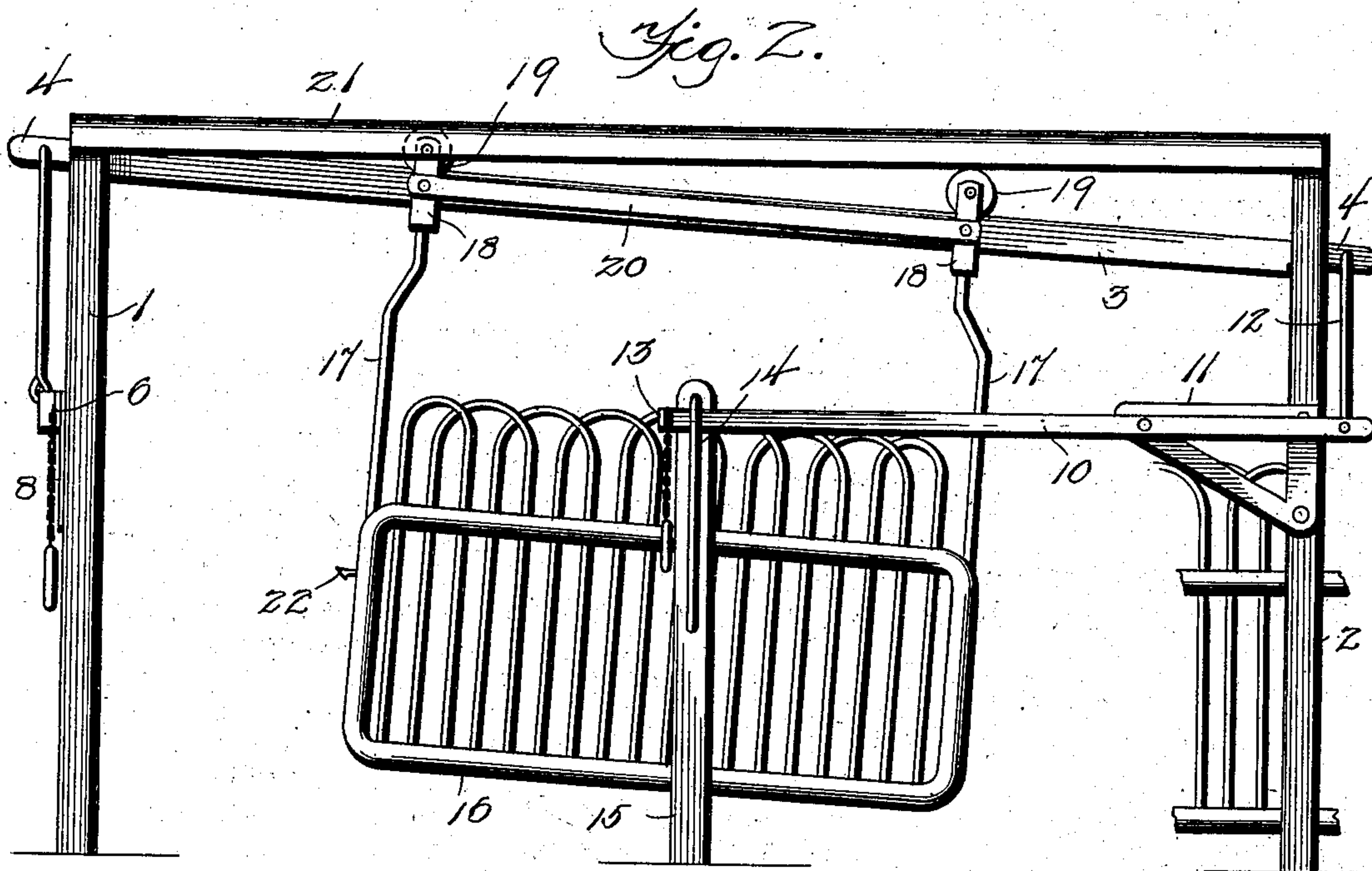


Fig. 4.



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UNITED STATES PATENT OFFICE.

ROBERT H. BERKSTRESSER, OF YORK, PENNSYLVANIA.

GATE.

SPECIFICATION forming part of Letters Patent No. 695,531, dated March 18, 1902.

Application filed June 18, 1901. Serial No. 65,027. (No model.)

To all whom it may concern:

Be it known that I, ROBERT H. BERKSTRESSER, a citizen of the United States, residing at York, in the county of York and State of Pennsylvania, have invented certain new and useful Improvements in Gates, of which the following is a specification.

This invention relates to gates, and has special reference to the type commonly known as "sliding" gates.

The main and primary object of the invention is to provide novel means for hanging and operating the sliding gate, door, or equivalent object, whereby a minimum number of parts may be employed, while at the same time insuring a positive and reliable action.

With these and many other objects in view, which will more readily appear as the nature of the invention is better understood, the same consists in the novel construction, combination, and arrangement of parts hereinafter more fully described, illustrated, and claimed.

My invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a sliding gate shown in its closed position and embodying the improvements contemplated by the invention. Fig. 2 is a side elevation illustrating the track or track-rail tilted in a direction to provide for the opening of the gate. Fig. 3 is a similar view showing the track or track-rail tilted in a direction to provide for the automatic closing of the gate. Fig. 4 is an end view showing the pair of operating-levers associated with one end of the track-rail.

Like numerals of reference designate corresponding parts in the several figures of the drawings.

In carrying out the invention it should be understood that the improvements are necessarily susceptible to use in connection not only with a sliding gate, but also with a sliding door or similar object; but it is deemed sufficient for illustrative purposes to show the improvements in connection with a sliding-gate structure.

Referring particularly to the drawings, the numerals 1 and 2 represent a pair of oppositely-arranged track-supports, which, in connection with a gate, are in the form of standards and constitute the gate-posts. These

track-supports or supporting-standards are arranged a sufficient distance apart to permit of the opening and closing of the gate in the interval between the same. There is associated with the said track-supports a horizontally-arranged tiltable track-rail 3, which extends the entire distance between the supports 1 and 2 and is provided at its opposite extremities with the reduced terminal arms 4, loosely projecting through the vertically-disposed slots or ways 5, provided at the upper end of said supports 1 and 2. The vertically-disposed slots or ways are of sufficient length to permit of considerable vertical play for the ends of the track-rail working therein, whereby either end of the track-rail may be elevated to provide for tilting the track-rail in the direction desired. Hence the construction described provides for supporting the track-rail in such a way as to permit the same tilting in either of two directions, according as it may be desired to open or close the gate. The tilting of the track-rail 3 may be effected by any suitable operating devices; but there is preferably associated with each of the posts 1 and 2 a pair of operating-levers. The pair of operating-levers associated with post 1 next to the road or passage closed by the gate are designated by the numerals 6 6, said levers being pivoted intermediate their ends, as at 7, upon opposite ends of an approximately triangular supporting-bracket 8, fitted to the post 1 and projecting at both sides thereof. Each operating-lever 6 has a link connection 9 with the contiguous terminal of the tiltable track-rail, so that by depressing the outer end of either lever said end of the track-rail will be elevated, thus tilting the rail in a direction to provide for the automatic opening of the gate. The operating-levers for the other end of the track-rail are designated by the numeral 10, the same being pivoted to the triangular offstanding brackets 11, fitted to opposite sides of the standard or post 2. The said levers 10 have link connections 12 with the adjacent terminal arm 4 of the track-rail and are also provided with lateral offstanding handles 13. The handle portions of the levers 10 are preferably confined to work within keepers 14, arranged at opposite sides of a bifurcated or slotted guiding-post 15, arranged intermediate the supports or stand-

ards 1 and 2 and serving to guide the sliding gate-panel 16. The gate-panel 16 may be of any suitable construction, but in the present invention has connected to the upper corners 5 thereof the hanger-rods 17, to the upper extremities of which rods are fitted the bifurcated hanger-stirrups 18, carrying supporting rollers or travelers 19, riding upon the upper edge of the track-rail 3. A brace-bar 10 20 rigidly connects the oppositely-arranged hangers to provide a strong hanger-support for the gate-panel.

A protective hood 21 is arranged longitudinally above the track-rail and is carried by 15 the supports 1 and 2 to provide a proper housing for the traveling hangers, and to provide for holding the gate in either a closed or open position there may be associated with the same suitable latches 22.

20 From the foregoing it will be seen that by operating the levers from either side of the gate the track-rail may be tilted in either direction, according as it is desired to have the gate automatically run to an open or a closed 25 position.

Various changes in the form, proportion, and minor details of construction may be re-

sorted to without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus described my invention, what I desire to secure by Letters Patent is— 30

The combination of a frame comprising end posts, and a gate-post located intermediate of the same, a tilting track-rail, a gate suspended 35 therefrom, a frame extending at right angles to the movement of the gate secured to one end post, levers pivoted thereto, and a connection between the same and one end of the tilting rail, a frame arranged parallel to the 40 movement of the gate secured to the other post, levers pivoted thereto having their rear ends connected to said rail, the forward ends of the levers extending to the intermediate post and being deflected therefrom in a direc- 45 tion at right angles to the movement of the gate.

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

ROBERT H. BERKSTRESSER.

Witnesses:

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