

UNITED STATES PATENT OFFICE.

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GATE.

SPECIFICATION forming part of Letters Patent No. 701,905, dated June 10, 1902.

Application filed March 5, 1902. Serial No. 96,838. (No model.)

To all whom it may concern:

Be it known that I, HILTON MELROSE LOCKETT, a citizen of the United States, residing at Henderson, in the county of Henderson and State of Kentucky, have invented a new and useful Gate, of which the following is a specification.

The invention relates to improvements in gates.

10 The object of the present invention is to improve the construction of sliding gates and to provide a simple, inexpensive, and efficient one of great strength and durability, adapted to be readily operated at a distance from
15 either side of it to enable it to be opened and closed without dismounting from a horse or leaving a vehicle.

The invention consists in the construction and novel combination and arrangement of
20 parts, hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a gate constructed in accordance with
25 this invention. Fig. 2 is an enlarged detail sectional view illustrating the manner of mounting the vertically-movable locking-bar and guide. Fig. 3 is a similar view illustrating the arrangement of the guide-pulleys for
30 the flexible connection between the operating-levers and the gate and illustrating the manner of locking the latter.

Like numerals of reference designate corresponding parts in all the figures of the drawings.
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1 designates a sliding gate mounted on suitable rollers or wheels 2 and 3 and arranged between uprights 4 and provided with an extension 5, composed of extensions of two of
40 the bars or rails of the gate and arranged in slots or openings 6 and 7 of a post or support 8. The arm or extension of the gate is arranged between rollers or wheels 9 and 10, located above the upper rail or bar and below
45 the lower rail or bar, and these rails or bars are connected at their rear ends by a suitable cross-piece. The arm or extension 5 of the gate assists in counterbalancing the same, and it relieves the gate of strain and prevents
50 the gate from sagging when closed.

The bars or uprights 4 have mounted upon them a vertical guide 11, composed of bars

spaced apart and having the opening or space between them arranged at right angles to the opening or space between the posts or up- 55 rights 4, and the lower posts or uprights and the upper guide-bars form a frame for supporting the gate and the locking mechanism thereof. The posts or uprights 4 are spaced apart by suitable blocks 12 and 13, having 60 openings in which is mounted a guide-tube 14, and the latter receives the lower gate-engaging portion 15 of a vertically-movable combined guide and locking bar 15. The upper portion of the vertically-movable bar 15 65 extends through a guide-opening 16 at the upper ends of the bars 11. The vertically-movable bar is provided between its ends with a flange or stop 17, and it is enlarged above the same to receive a pivot or pin 18 70 for connecting it to the inner adjacent ends of a pair of operating-levers 19, which are fulcrumed between their ends on movable supports 20, adapted to swing outward and inward as the levers are operated. The op- 75 erating-levers are provided at their inner ends with perforations or ears receiving the pin or pivot 18, and the said operating-levers are connected with the gate by a flexible connection 21, secured at its upper end 80 to one of the operating-levers and connected at its lower end to the top of the gate at 22. When the gate is closed, the outer arms of the operating-levers, which are provided with suitable handles, are elevated and are adapt- 85 ed to be drawn downward to raise the inner arms of the levers, whereby the flexible connection is pulled upon and actuates the gate. When the operating-levers are pulled down- 90 ward, the gate is actuated with sufficient force to carry it to its open position, and in completing its movement in either direction it draws the inner arms of the operating-levers downward, returning the operating-levers to their initial position. The flexible connec- 95 tion, which may be constructed in any desired manner, extends downward at one side of the guide-tube 14 and passes between a pair of guide-pulleys 23, mounted between the posts or uprights 4 and located directly above the 100 gate. The oscillating supports 20 consist of bars or uprights pivoted at their lower ends by pins 24 in bifurcations of short posts 25, and the upper ends of the bars or uprights

20 are provided with suitable brackets 26, having upwardly-extending arms, between which the operating-levers are pivoted. The bars or supports 20 swing inward and outward as the levers are moved upward and downward.

The gate is provided at its upper edge with front and rear recesses 27 and 28, forming sockets and adapted to be engaged by the lower end of the vertically-movable combined guide and locking-bar, as illustrated in Fig. 3 of the accompanying drawings. The combined guide and locking-bar engages the rear notch or recess to hold the gate in its closed position, and it similarly engages the front notch or recess to retain the gate in its open position.

It will be seen that the gate is exceedingly simple and inexpensive in construction, that it is easily operated to open and close it at a distance from either side of it, and that it is securely locked in its open and closed positions.

What I claim is—

1. The combination of a frame or support, a gate, a vertically-movable locking-bar guided on the frame and arranged to engage the gate, supporting-bars pivotally mounted at opposite sides of the gate, operating-levers fulcrumed on the supporting-bars and connected to the vertically-movable locking-bar, and means for connecting the latter with the gate, substantially as described.

2. The combination of a frame or support, a

sliding gate, a vertically-movable locking-bar mounted on the frame or support and located above and adapted to engage the gate at the limit of its movement, the supporting-bars pivotally mounted at opposite sides of the gate, the operating-levers fulcrumed on the supporting-bars and connected with the vertically-movable bar, and a flexible connection extending from the gate to the operating-levers, substantially as described.

3. The combination of a frame or support having a gate-receiving opening and provided with upper bars spaced apart to form an opening, a gate arranged to slide in the lower gate-receiving opening, a pair of pulleys located above the gate, a vertically-movable locking-bar and guide mounted on the frame or support, a tube or casing receiving the lower portion of the locking-bar and guide, operating-levers extending into the upper openings of the frame or support and connected to the said locking-bar and guide, movable fulcrums supporting the operating-levers, and a flexible connection extending between the said pulleys and connected with the gate and with the operating-levers, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

HILTON MELROSE LOCKETT.

Witnesses:

V. P. TAYLOR,

JNO. FRANCIS LOCKETT.