

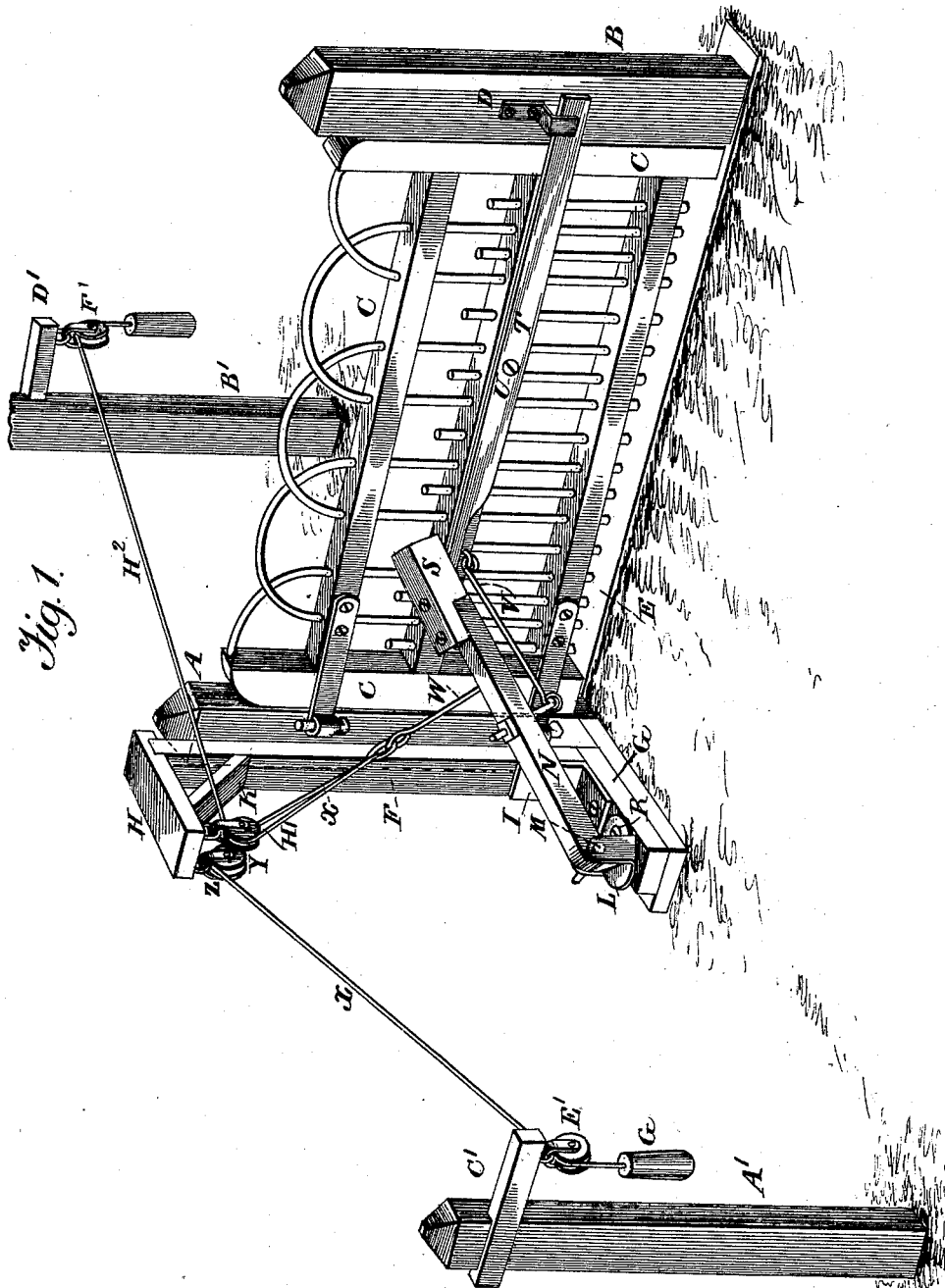
(No Model.)

2 Sheets—Sheet 1.

J. CHAMBERS  
GATE.

No. 423,216.

Patented Mar. 11, 1890.



WITNESSES:  
A. Ruppert.  
C. D. Davis

INVENTOR  
James Chambers  
BY C. M. Alexander

**ATTORNEY.**

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Fig. 2.

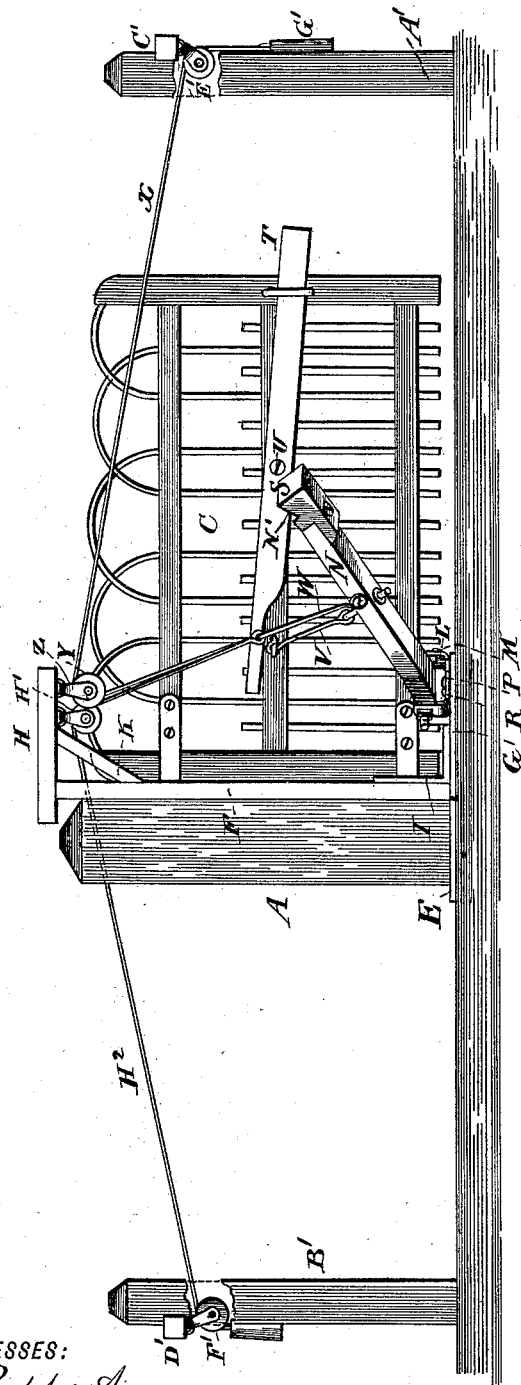
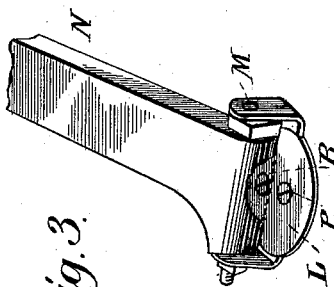


Fig. 3.



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# UNITED STATES PATENT OFFICE.

JAMES CHAMBERS, OF COLUMBUS, INDIANA.

## GATE.

SPECIFICATION forming part of Letters Patent No. 423,216, dated March 11, 1890.

Application filed November 25, 1889. Serial No. 331,483. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES CHAMBERS, a citizen of the United States, residing at Columbus, in the county of Bartholomew and State of Indiana, have invented certain new and useful Improvements in Gates, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention has for its objects to provide an attachment that may be applied to any ordinary gate whether opening to the right or left, and by means of which the gate can be opened or closed and fastened from either side by a rider without dismounting from his animal, or by the occupant of a vehicle without removing from the same.

In the accompanying drawings, forming part of this specification, Figure 1 is a perspective view of a gate, showing my attachment applied thereto. Fig. 2 is a side elevation of the posts and the gate partly open, taken from the side of the roadway at which the gate is hinged, the outer posts being broken away to show the pulleys over which the operating-cords pass; and Fig. 3 is a detached perspective view of the lever by which the gate is opened and closed and the latch operated, showing also an adjustable plate having fulcrum-bearings for the lever.

Referring to the drawings, the letters A and B indicate the respective gate-posts, and C the gate hung to the post A, the post B being provided with a catch D for the gate-latch. These parts may all be of the ordinary or any approved form of construction, and the posts are mounted, preferably, upon a sill E, although this is not essential.

The letter F indicates a flat bar of slightly-greater height than the post A, provided with a horizontal sill G at its lower end, and with a horizontal head H at its upper end. The sill G is securely attached to the bar F by means of an angle-plate I, or otherwise, the said sill extending under the lower end of the bar F, and into a recess in the sill E, upon which the gate-posts are mounted. The head H is mortised to the upper end of the bar F, and is braced thereto by means of a brace-bar K.

The letter L indicates a metal plate or disk, which is provided with vertical lugs on opposite sides, in which are formed fulcrum-

bearings for the fulcrum-pins M of the lever N. The plate or disk L is provided with a central opening through which a screw P passes into the sill G, securing the plate to the sill, but permitting it to be turned freely. The said disk or plate is also provided with an aperture through which passes a screw R, by means of which the plate or disk may be adjusted to apply the attachment to gates opening to the right or left, as more fully hereinafter explained. The lever N consists of a bar or beam, preferably constructed of wood and having secured to its upper end a metallic weight S, which is beveled on one of its faces, as indicated by the letter N' in Fig. 2, so as to strike squarely against one end of a latch-lever T, fulcrumed at U to the gate. The opposite end of said latch-lever extends partially across the gate-post B, below the catch D. The lever N is connected to the gate by means of a link V, by means of which the said gate is opened or closed.

W indicates a link, also connected to the lever N and to a line X, passing over a pulley Y, mounted in a block Z, secured to the head H, before mentioned.

The letters A' B' indicate two posts mounted at opposite sides of the gate-post A at suitable distances therefrom. The said posts are provided with lateral arms C' D' near their upper ends, from which depend the pulley-blocks E' F'. Over the pulley in the block E' extends the line X, its free end being provided with a weighted hand-hold G', by means of which the lever N may be operated to open or close the gate. The head H is provided with another block and pulley H', over which is passed a line H<sup>2</sup>, similar to the line X, the said line connecting with the link W and extending over the pulley F', being provided with a hand-hold similar to the hand-hold G', by means of which the gate may be operated from the opposite side.

In the present instance the gate is shown as arranged to open at the right hand; but it is evident that by securing the attachment and other parts to the opposite side of the post A the gate may be arranged to open at the left hand. In the last-mentioned instance the disk or plate L would be adjusted so as to cause the lever N to incline in an opposite

direction to that shown herein, the adjustment being effected by the swivel plate or disk L and the screw R, before mentioned.

The parts of the attachment being in the position shown in Fig. 1 to open the gate, a sudden pull is given on the end of either of the lines X or H<sup>2</sup>. This draws the lever N quickly back, releasing the rear end of the latch-lever and permitting its heavier forward end to fall out of the catch. The lever N, after passing back beyond a vertical line, falls back farther by the gravity of the weight S, opening the gate to its full extent. To close the gate, either of the lines is pulled suddenly as before, drawing the lever N forward until it passes a vertical line, moving the gate with it, the weight falling upon the rear end of the latch-lever, which it depresses, throwing its forward end into engagement with the catch and holding the gate in a closed and fastened position.

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

1. The combination, with a swinging gate hinged to a post A, a latch-post B, provided with a catch D, and a latch-lever T, pivoted on the gate and adapted to engage the said catch D, of an attachment consisting of a vertical bar F, secured to the hinge-post and provided with horizontal arms H and G, an

adjustable plate L, secured to the lower arm G, an inclined lever N, pivoted upon this plate L and provided with a beveled weight upon its forward upper end, this weight normally resting upon and depressing the rear end of the pivoted latch-lever T, a link V, pivotally connecting the said lever N to the adjacent side of the gate, a link W, pivoted upon the side of the weighted lever N, and operating-ropes connected to this link W and passing up over pulleys hung upon the said upper arm H, substantially as hereinbefore set forth.

2. The combination, with a swinging gate, provided with a pivoted latch-lever T, of a lever N, pivoted upon a rotatively-adjustable plate L, this lever being provided with a weight S on its forward end, normally resting upon and depressing the rear end of the latch-lever T, a link connecting this weighted lever to the gate, a link W, pivotally connected to the side of the lever N, and operating-ropes connected to the link W and passing over overhead pulleys, substantially as described.

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

JAMES CHAMBERS.

Witnesses:

DAVID STOBO,  
GEORGE FFEIFER.