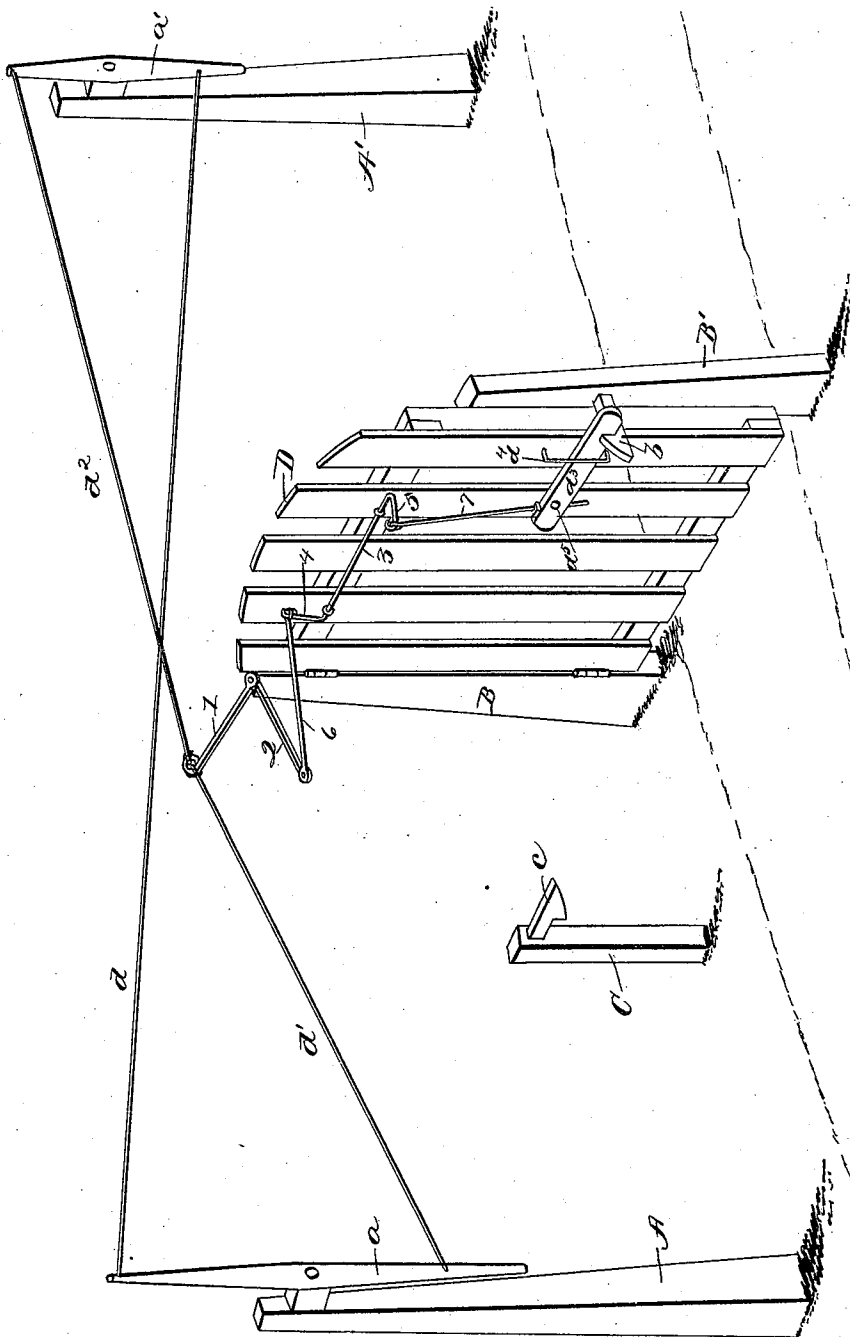


(No Model.)

A. C. JOHNSON.
LEVER OPENING SWINGING GATE.

No. 553,619.

Patented Jan. 28, 1896.



Witnesses:

J. M. Fowler Jr.
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UNITED STATES PATENT OFFICE.

AMMIE CEPHUS JOHNSON, OF DRAKE'S CREEK, ARKANSAS.

LEVER-OPENING SWINGING GATE.

SPECIFICATION forming part of Letters Patent No. 553,619, dated January 28, 1896.

Application filed November 12, 1895. Serial No. 568,710. (No model.)

To all whom it may concern:

Be it known that I, AMMIE CEPHUS JOHNSON, a citizen of the United States, residing at Drake's Creek, in the county of Madison and State of Arkansas, have invented certain new and useful Improvements in Lever-Opening Swinging Gates; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention is a hand-lever-opening gate; and it consists in the novel construction and arrangement of its parts.

The figure in the accompanying sheet is a perspective view of my invention.

My invention is described as follows:

A and A' are posts situated on the side of the road. *a* and *a'* are levers pivoted near the top ends of said posts.

B and B' are gate-posts, and C is another gate-post. In post B' is a latch-keeper *b*, with the nib turned up, and in post C is a latch-keeper *c*, with the nib turned down.

Extending from the upper end of the lever *a* is a cord *d*, which is attached to the lower end of the lever *a'*. Extending from the lower end of the lever *a* is a cord *d'*, which is attached to the free end of the lever 1. Extending from the free end of the lever 1 is another cord *d''* attached to the upper end of the lever *a'*.

To the post B is hinged a gate D, provided with a latch *d³*, held in place by a staple *d⁴* and a bolt *d⁵*. On the upper end of the gate-post B is pivoted a lever 1, having an elbow-arm 2.

To the face of the gate is pivoted a rod 3, having elbow-arms 4 and 5. These arms have in their ends eyes. The arm 4 is nearly vertical, while the arm 5 is horizontal.

To the free end of the lever 2 is pivoted one end of a link 6, while the other is pivoted or hinged to the free end of the arm 4. To the free end of the arm 5 is pivoted or hinged a rod 7, the lower end of which passes through the latch *d³*, in rear of the bolt *d⁵*, so that when the rod 7 is pressed down it raises the forward end of the latch *d³* out of the keeper *b*.

When the gate is opened the latch passes

under the keeper *c* in the post C, and the gate is latched to stand open.

The operation of the gate is as follows: The rider or driver approaches the gate from the north, (supposing the upper end of the sheet to represent north.) He takes hold of the lower end of the lever *a* and pushes it south. That has the effect of throwing the free end of the lever 1 north, which throws the free end of the arm 2 back, or west. The first movement of the arm 2 is to pull the arm 4 outwardly from the gate. This throws the free end of the arm 5 down, which has the effect of pressing down the rear end of the latch *d³* and throwing its front end up and out of the keeper *b*. The second effect is to throw the gate open. The gate falls against the post C and the latch under the keeper *c*. The momentum given to the parts 1, 2 and 6 by the swinging of the gate causes them to continue their motion a little when the gate has been stopped against the post C, which raises the latch and causes it to catch in the notch of the keeper *c*.

When the rider passes through to the south side of the gate, he takes hold of the lower end of the lever *a* and pushes it southward. The first result is to throw the latch *d³* down which releases it from the keeper *c*. The next result is to close the gate.

I admit that the posts A and A', the levers *a* and *a'*, and cords *d*, *d'* and *d''* are old, and therefore they are not broadly claimed by me; but

What I claim as new, and desire to secure by Letters Patent, is—

1. In a lever opening gate, substantially as shown and described, the lever 1, pivoted on the upper end of the post-B, and having rigidly secured to it an arm 2; rod 3, pivoted to the face of the gate and having the vertical arm 4 and horizontal arm 5; rod 6, having one end pivoted to the free end of the arm 2, and the other to the free end of the arm 4; rod 7, having its upper end pivoted to the free end of the arm 5, and its lower end secured to the rear end of the latch *d³*, post B' and keeper *b*, substantially as shown and described and for the purposes set forth.

2. In a lever opening gate, substantially as shown and described, the lever 1, pivoted on

the upper end of the post B, and having rigidly secured to it an arm 2; rod 3, pivoted to the face of the gate and having the vertical arm 4, and horizontal arm 5; rod 6, having
5 one end pivoted to the free end of the arm 2, and the other to the free end of the arm 4; rod 7, having its upper end pivoted to the free end of the arm 5, and its lower end secured to the rear end of the latch d^3 , post B'
10 and keeper b ; latch d^3 , adapted to catch un-

der keeper c ; and cords d , d' , d^2 , substantially as shown and described and for the purposes set forth.

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

AMMIE CEPHUS JOHNSON.

Witnesses:

E. H. SHIPLEY,

ALEX. M. JOHNSON.