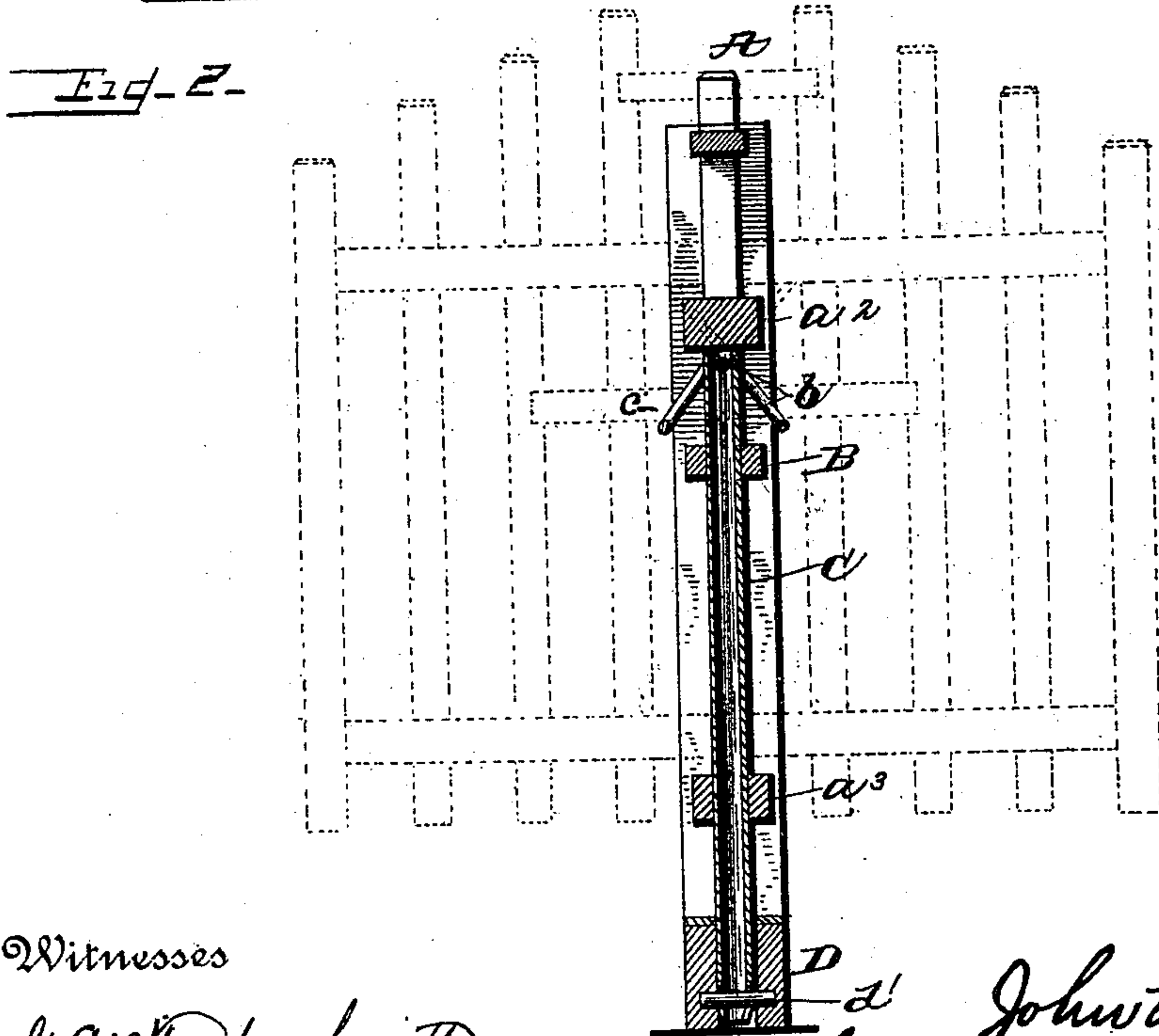
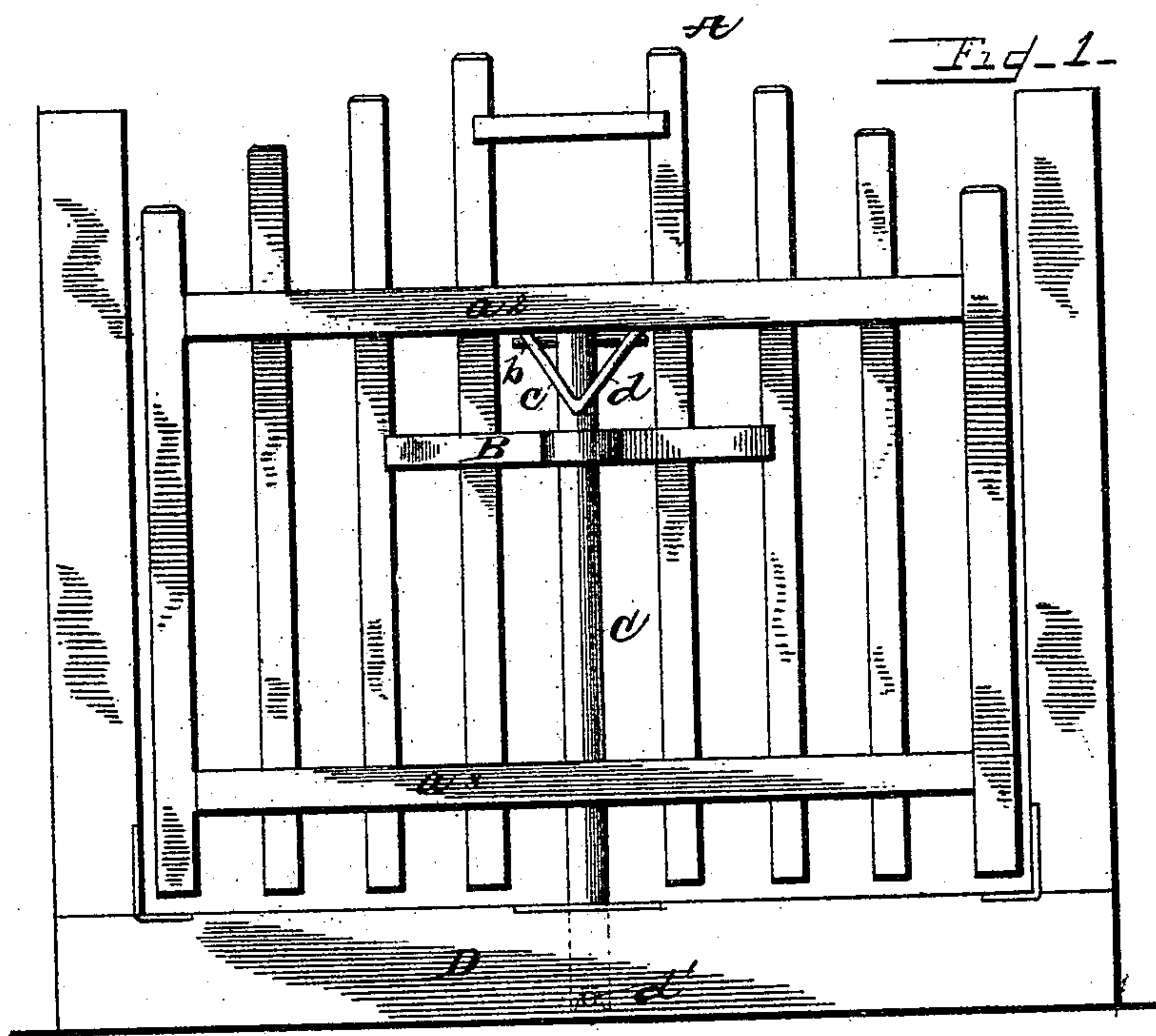


(No Model.)

J. W. GORHAM.  
SWINGING GATE.

No. 457,852.

Patented Aug. 18, 1891.



Witnesses

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# UNITED STATES PATENT OFFICE.

JOHN W. GORHAM, OF MOUNT UNION, IOWA.

## SWINGING GATE.

SPECIFICATION forming part of Letters Patent No. 457,852, dated August 18, 1891.

Application filed May 12, 1891. Serial No. 392,484. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN W. GORHAM, a citizen of the United States, residing at Mount Union, in the county of Henry and State of Iowa, have invented certain new and useful Improvements in 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 relates to that class of swinging gates which are supported and pivoted at their center.

The object of my invention is to provide a centrally-pivoted automatically-closing gate operated by a cam-like device; also a gate, as above described, which may be readily lifted from its frame and placed out of the way when it is desired to pass large teams through the gate-opening.

With these ends in view my invention consists in the parts and combination of parts, as will be fully described, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a front elevation of a gate with my invention attached. Fig. 2 is a vertical section through the center of the gate and post, the gate shown open in dotted lines.

The gate A is pivoted between two posts. If desired, there may be a catch between the posts and gate; but in practice such device has been found unnecessary, as the device hereinafter described has been found sufficient to keep the gate closed against the action of the wind, &c.

Between the two central pickets of the gate A is secured a guide B, having a vertical central bore  $a$  through its entire body. The top and bottom horizontal bars  $a^2$  and  $a^3$  also have vertical central bores in line with the bore  $a$  in guide B.

C is a removable hollow post, which may be made of any suitable material, but in the present instance it is made of metal.

$b$  is a pin, secured in the post, as shown. The bottom of the post C is notched and engages a pin  $d'$  in a post or base D, secured in the ground.

Secured to the rail  $a^2$  of the gate are cams  $c$   $d$ , which form a double-V cam.

The post C being in position, and the pin  $b$  resting between the inclined faces at their juncture, and the lower portion of the post resting over the pin  $d'$  of post D, it is obvious that a push from or on either side or end of the gate will cause the pin  $b$  to ride up the cam faces, thus raising and opening the gate simultaneously. Upon being released the gate will automatically close itself. If the pressure brought to bear upon the gate be sufficient it will turn around and close the pin  $b$ , riding down the opposite inclined faces. It will thus be seen that I provide an automatically-closing gate, and one that can be removed very readily from its position and placed to one side; also a gate that is simple in construction.

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

In an automatic-closing centrally-pivoted swinging gate, the combination, with a base D and the post C, removably secured thereto, and having a pin  $b$  secured near its top, of a guide B, having a central bore through which the post C works, and the double-V cam secured to the top rail  $a^2$  of the gate, all combined and operating substantially as described.

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

JOHN W. GORHAM.

Witnesses:

I. DEAL,  
MARY DEAL.