

(No Model.)

D. WALKER.
FARM GATE.

No. 441,518.

Patented Nov. 25, 1890.

Fig. 1.

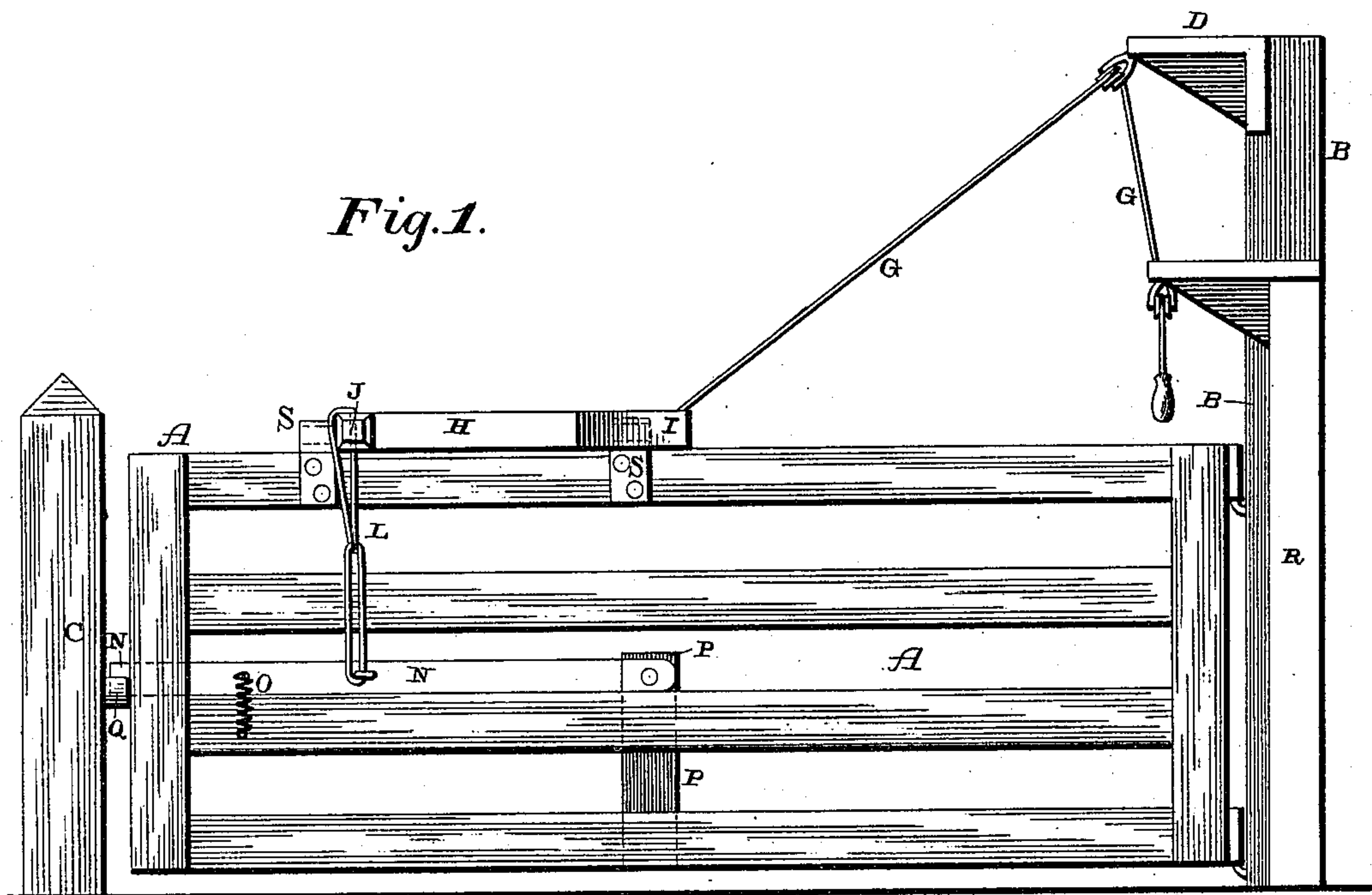
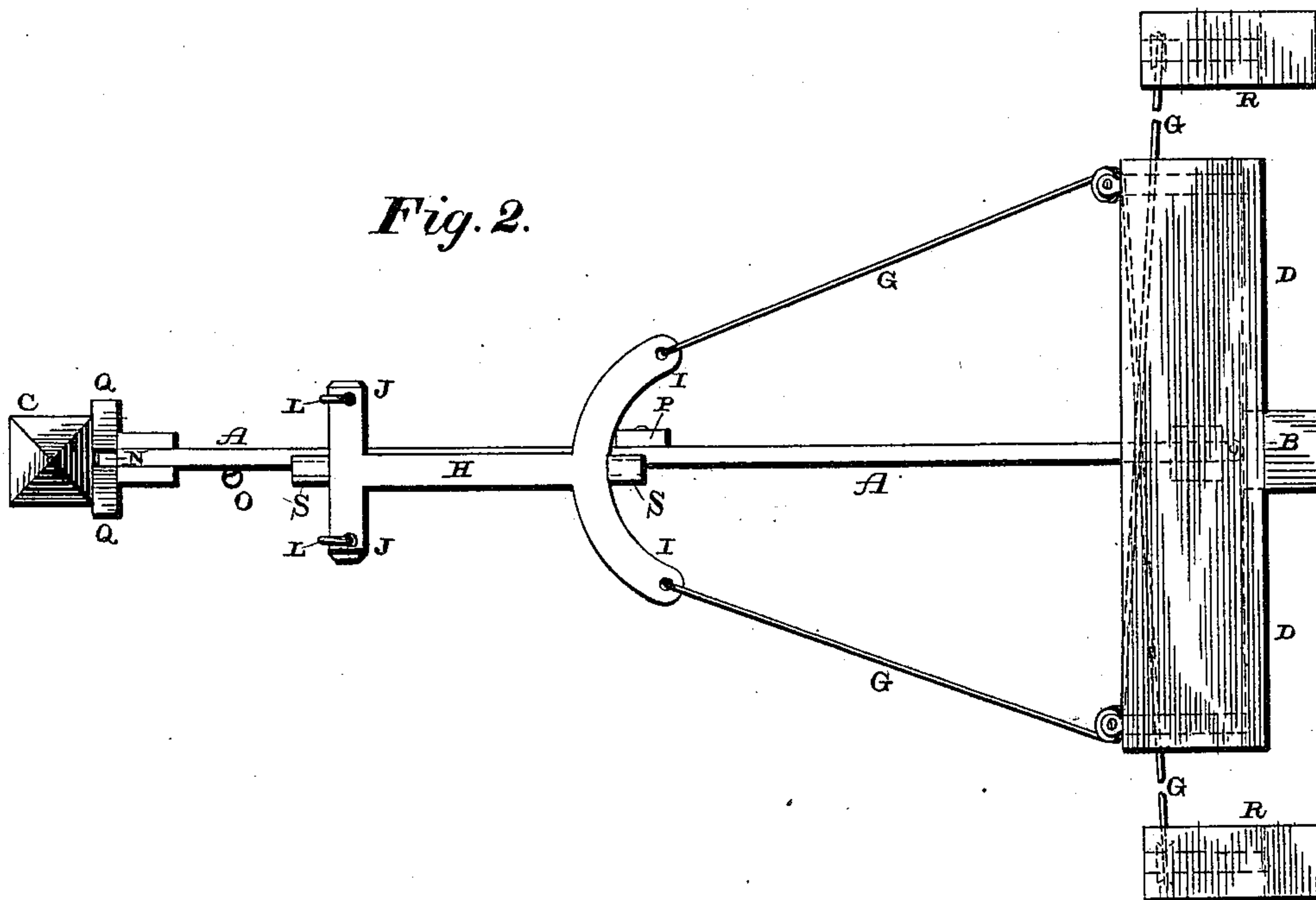


Fig. 2.



Witnesses:

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per
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UNITED STATES PATENT OFFICE.

DOUGLAS WALKER, OF LIBERTY, ILLINOIS.

FARM-GATE.

SPECIFICATION forming part of Letters Patent No. 441,518, dated November 25, 1890.

Application filed September 1, 1890. Serial No. 363,687. (No model.)

To all whom it may concern:

Be it known that I, DOUGLAS WALKER, of Liberty, in the county of Adams and State of Illinois, have invented certain new and useful
5 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 pertains to make and use it, reference be-
10 ing had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in swinging gates; and it consists in the combination and construction of parts, which will
15 be fully described hereinafter, and pointed out in the claim.

The object of my invention is to provide a peculiar device, hereinafter shown and described, for operating a latch of a swinging
20 gate and at the same time opening or closing the gate.

Figure 1 is a side elevation of a gate to which my invention is applied. Fig. 2 is a plan view of the same.

25 A represents a gate of ordinary construction, which is hung upon the tall post B in the usual manner, and which closes against the post C. The post B rises high above the gate and has the cross-piece D secured thereto, which cross-piece is provided with suitable
30 guides for the passage of the operating-wires G and for the purpose of changing their directions.

Journalled upon the top of the gate and extending in a line therewith is the partially-revolving rod or shaft H, of any suitable length, which is provided with the arms I at its rear end and the arms J at its front one. The arms I are considerably longer than arms J, and
40 instead of extending straight out at right angles to the rod or shaft are curved backward. The rod H is provided at each end with a journal, which revolves in the bearings S upon the top rail of the gate. To the outer ends of
45 the arms I the operating-wires G are fastened. To the outer ends of the arms J suitable loops L are fastened, and these loops extend down and are secured to the latch N, which is held pressed downward by means of the spring O.
50 The latch N is pivoted at its rear end to a vertical piece P, which extends partially up the

center of the gate, and the outer end of the latch has a free rising-and-falling movement. The spring O serves to keep the latch in positive contact with the catch Q, and hence the
55 latch is made automatic in closing, and the gate can only be opened after the latch has been positively operated.

When the rod H, which is journalled on the top of the gate in a line with the latch N, is
60 caused to turn partially by a pull upon either one of the wires G, the arm J on the same side as that to which the operating-wire is fastened rises, causing the latch N to rise so as to free the gate, and then the continued pull upon
65 the wire causes the gate to swing open away from the operator.

Each wire G extends up from its arm I to the guide upon one end of the cross-piece D, and from this guide it extends along the cross-
70 piece D and out to the side post R, placed at one side of the gate, from which the free end of the wire hangs within easy reach of persons in vehicles or on horseback.

By using a partially-revolving rod or shaft
75 which is journalled upon the top of the gate I am enabled to use a latch which has a spring attached to it, so as to keep it constantly pressed downward against the catch, and thus prevent the latch from being operated by the mere
80 shaking of the gate and cause it to engage automatically with the catch when the gate is closed.

Having thus described my invention, I
85 claim—

In a gate, the combination, with the gate, of a rod having laterally-extending arms near each end and journals at its extremities, bearings upon the gate for the said journals, a
90 latch, connections between the arms at one end of the rod and the latch, a support above the gate having guides, and operating-cords passing through the guides and connected with the arms at the opposite end of the rod,
95 substantially as described.

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

DOUGLAS WALKER.

Witnesses:

R. E. LINN,

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