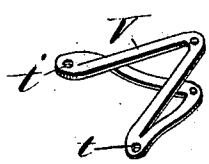
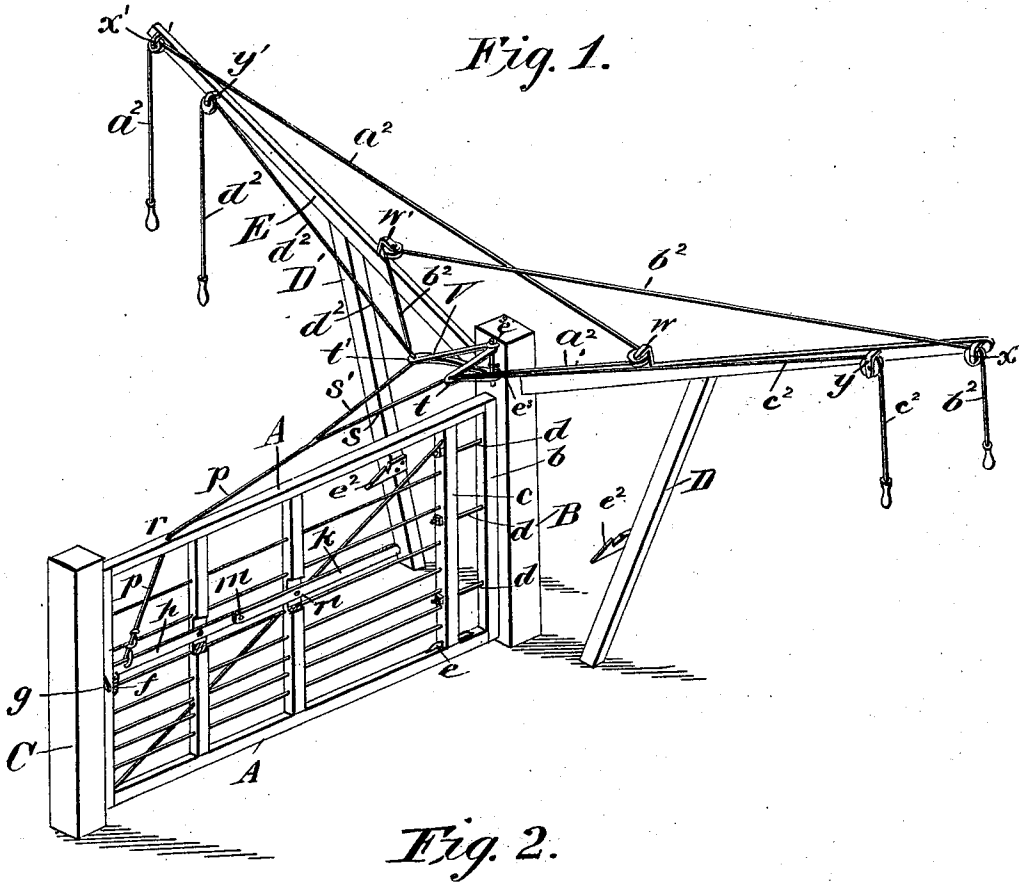


(No Model.)

C. L. LEONARD & W. A. CARTER.
GATE.

No. 510,689.

Patented Dec. 12, 1893.



Witnesses:

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UNITED STATES PATENT OFFICE.

CASWELL LEE LEONARD, OF STEAM CORNER, AND WILLIAM A. CARTER, OF YEDDO, INDIANA.

GATE.

SPECIFICATION forming part of Letters Patent No. 510,689, dated December 12, 1893.

Application filed March 23, 1893. Serial No. 467,394. (No model.)

To all whom it may concern:

Be it known that we, CASWELL LEE LEONARD, residing at Steam Corner, and WILLIAM A. CARTER, residing at Yeddo, in the county of Fountain and State of Indiana, citizens of the United States, have invented a new and useful Gate, of which the following is a specification.

Our invention relates to means for opening and closing swinging gates. We attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a representation of the entire gate. Fig. 2 is the "V," the principal device in the said improvement.

Similar letters refer to similar parts throughout the two views.

The gate, which may be of any desired construction is supported in the usual way between hinge post B and latch post C. The gate shown has a slide *c* connected to the frame by bolts *d*, *d*, *d*, and the remainder of the space is filled with wires attached to the slide. The tension of these wires is adjusted when necessary by turning the taps on the bolts.

The latch consists of two parts, or is double, and the coil spring *f*, holds the same down into the catches, *g*, and *e*² and *e*². Both latches or parts are raised by the wire *p* which fastens into the eyes *t* and *t'*. The object of this double latch is to have a power at the rear that will raise the rear end of the front part and cause the latch to press into the catch on main post.

To the hinge post B are secured oblique bars E, which are supported by inclined posts D. Posts D carry catches *e*² and are placed at a proper distance for the latch to engage with said catches when the gate is opened. Bars D extend along the road far enough to bring the operating ropes within reach of the driver of any vehicle. Each bar has near its outer end its two pulleys *x*, *y*, or *x'*, *y'* to guide the opening and closing ropes, and each has also a pulley *w*, or *w'* for the opening rope between posts B and D.

On the face of post B, near the top is at-

tached by a pintle bolt and two staples what we call the "V."

The V consists of a metal plate shaped like the letter "V" with a rounded point, having cuts parallel to each side, which meet at the point and divide the plate into two V's, the inner one of which is bent upward. Perforations *t*, *t'* are made where the limbs meet, and a perforation at each point, and the device is secured to the face of the hinge post, by a pintle rod passing through the latter perforations and two staples inserted in the post. The cord *b*² passes through pulley *x* and across through *w'* to the eye *t'* of the V and the cord *a*² goes through the pulley *x'* and across round pulley *w*, and into eye *t* of the V. The cord *c*² passes through pulley *y* and to eye *t* and cord *d*² passes through pulley *y'* to eye *t'*. The V swings with the gate and is fastened to post B with staples as aforesaid, and is connected with the latch by the said cords *h*, *s*, *s'*.

The gate is manipulated as follows: By pulling the cord *b*² the gate will open on opposite side and catch on *e*² which is on the post D², or by pulling cord *c*² the gate will close, and by still pulling on same cord *c*² the gate will open and catch on *e*² which is on post D. By manipulating the cords *a*², *b*² the same result will be attained. Again, by pulling the cord *b*² the gate will open on opposite side and catch on *e*² which is on post D, and by pulling the cord *a*² the gate will close.

What we do claim as our invention, and desire to secure by Letters Patent, is—

The combination of a double V shaped plate, formed as described, and hinged at its points to the gate post, with the pull cords *a*², *b*², *c*² and *d*², attached to its legs, and guided by pulleys as shown, and the cords *s*, *s'*, also attached to its legs and connected to latch *p*, all substantially as set forth.

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Witnesses:

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