(No Model.)

E. J. LANE.

GATE.

No. 329,056. Patented Oct. 27, 1885.

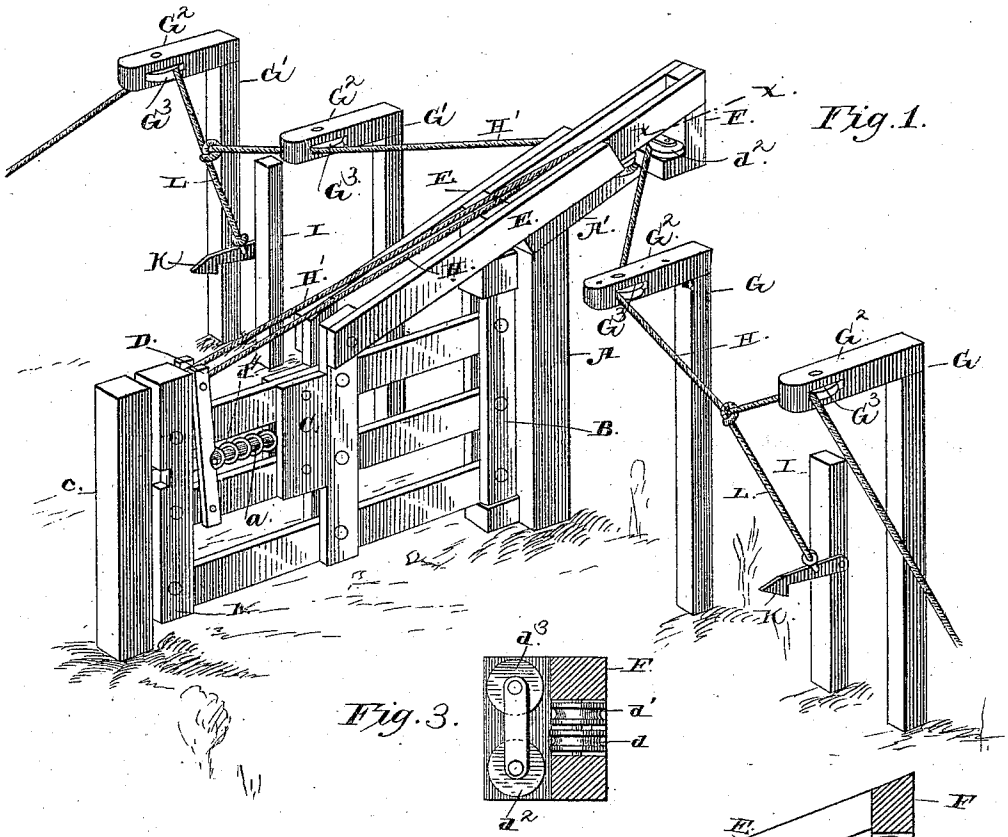

Fig. 1.

Fig. 3.

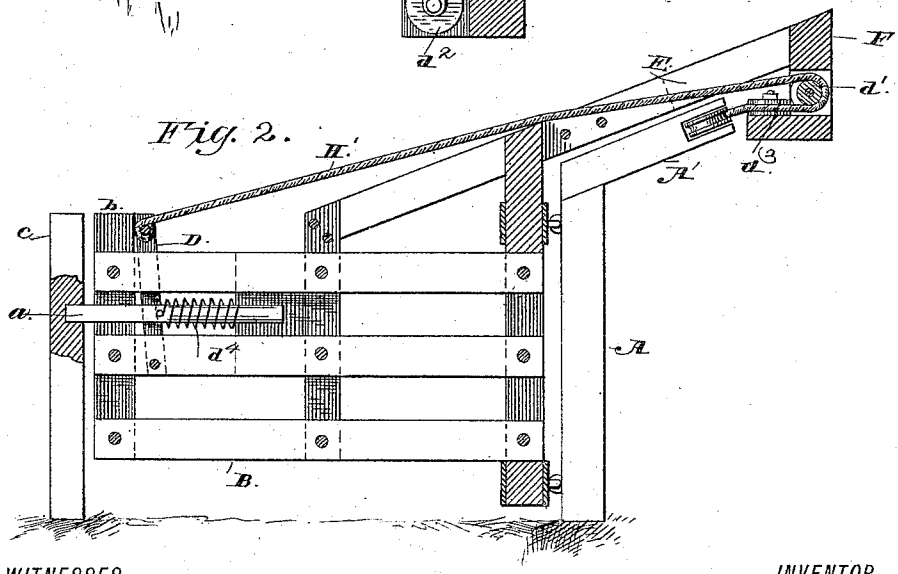

Fig. 2.

WITNESSES

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GATE.

SPECIFICATION forming part of Letters Patent No. 329,056, dated October 27, 1885.

Application filed June 6, 1885. Serial No. 167,858. (No model.)

To all whom it may concern:

Be it known that I, ENOCH J. LANE, a citizen of the United States, residing at Williams, in the county of Colusa and State of California, have invented a new and useful Improvement in Gates, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to gates, the object being to provide improved means for opening and closing the same by a person in a carriage or upon horseback without the necessity of alighting from the carriage or dismounting.

With these ends in view the invention consists in the improved construction and combinations of parts hereinafter fully described, and pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a gate constructed in accordance with my invention. Fig. 2 is a vertical section through the gate, and Fig. 3 is a horizontal section on the line *x x* of Fig. 1.

In the accompanying drawings, in which like letters of reference indicate corresponding parts in all the figures, A represents a suitable standard or upright to which is hinged the gate B. The gate B consists of a series of horizontal bars connected by a series of vertical bars.

C represents strips connecting two of the horizontal bars near their outer ends, and between said strips is arranged a sliding bar, *a*, the outer end of which projects through an opening in the outer vertical bar, *b*, beyond the gate, and is adapted to engage an opening in a post, *c*. Upon this sliding bar is a spiral spring, d^4, which bears against the strips C at one end and against the pivoted levers D at the other end. The levers D are pivoted to one of the horizontal bars of the gate, and are connected with the sliding bar *a*, so that when said levers are moved inwardly the bar *a* will be removed from engagement with the post *c* and allow the gate to be opened. Extending upward in an inclined direction from the top of the gate B, at its middle, are beams E. Depending from the outer ends of the beams E is a bracket, F, within which are journaled horizontally rollers *d d'*, and adjacent to said rollers *d d'* are journaled vertically rollers d^2 d^3.

G G' are posts having inwardly-extending arms G^2, which have horizontal slots or openings in which are journaled rollers G^3.

H H' are cords for opening and closing the gate. The said cords are secured to the levers D at their inner ends, and from there pass up and over the rollers *d d'*, and then engage with the rollers d^2 d^3, the cord H passing to posts G, and the cord H' to the posts G'. It will thus be seen that should either of the cords be pulled it will release the latch or spring-pressed sliding bar from the post *c*, and that the gate will be opened in an opposite direction to that in which the cord is pulled.

For holding the cords in proper position when the gate is opened, and allowing a greater leverage on the inner end of the gate, I have provided an outwardly-extending arm, A', on the upper end of post A, in which arm is journaled a roller, which is adapted to be engaged by either one of the cords H H', according to the direction in which the gate is opened. Between the posts G and G' are provided short posts I, carrying pivoted latches K, which, when the gate is opened, are adapted to engage the projecting end of the sliding bar *a*, and thus hold the gate open until the carriage has passed the end of the same, when the cord is pulled to close the gate, which raises the latch through the medium of a connecting-cord, L, thus allowing the gate to be closed, when the sliding bar *a* engages the opening in post *c* and holds the gate shut.

Having thus described my invention, I claim—

The combination, with the post A, having the extended arm A' provided with a roller, and with the post *c*, against which the gate swings, of the gate hinged to post A, having the inclined rearwardly-extending beams E, carrying the bracket F at their outer ends, and the rollers journaled in said bracket, the spring-actuated latching-bar *a*, the pivoted levers D, engaging with said bar to move the same and unlatch the gate, and the cords or ropes secured to the levers D and passing over the rollers to swing the gate, substantially as described.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

ENOCH JACKSON LANE.

Witnesses:
A. J. SMITH,
L. D. LANE.