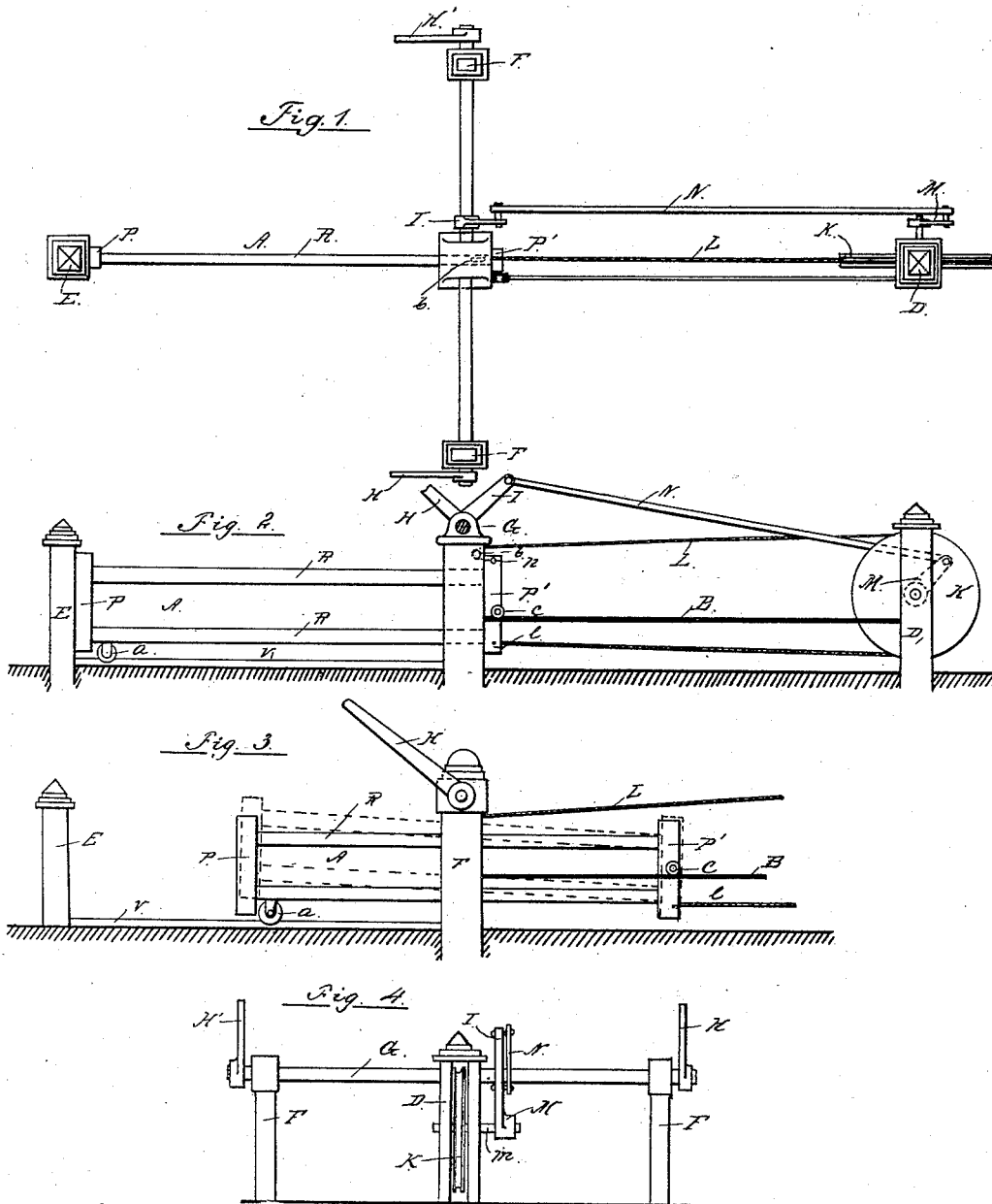


(No Model.)

D. BAKER.
GATE.

No. 418,363.

Patented Dec. 31, 1889.



Witnesses:

Geo. A. Lane
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UNITED STATES PATENT OFFICE.

DANIEL BAKER, OF FERTILITY, PENNSYLVANIA.

GATE.

SPECIFICATION forming part of Letters Patent No. 418,363, dated December 31, 1889.

Application filed August 31, 1888. Serial No. 284,269. (No model.)

To all whom it may concern:

Be it known that I, DANIEL BAKER, a citizen of the United States, residing in Fertility, in the county of Lancaster and State of Pennsylvania, have invented certain Improvements in Gates, of which the following is a specification.

My invention relates to that class of gates which are opened and closed by being moved backward or forward on their points of support; and it consists in the construction and combination of the various parts, as hereinafter fully described and claimed, and as illustrated in the accompanying drawings, making a part of this specification, in which—

Figure 1 is a plan view of my invention. Fig. 2 is a side elevation of the same with the gate closed and one of the hand-levers removed, and Fig. 3 is a similar view with the gate partially open. Fig. 4 is a rear elevation of the invention.

In the drawings, A is the gate, composed of the front and rear battens P P' and the horizontal bars or rails R.

E represents the front post; C, the rear post, and D a post placed back of it, for a purpose to be hereinafter described. Posts E, C, and D are each composed of two uprights placed side by side with a space between them and united at the top by ornamental caps. The gate moves back and forth between the uprights of the rear post C, the front end thereof being received between the uprights forming the post E when the gate is closed.

c represents a grooved roller attached to one of the rear battens P' of the gate at or below the center thereof. This roller rests upon a rod or bar B, extending between and upheld by the posts C and D. As the gate is opened and closed the roller c travels on the rod B, the groove therein embracing the rod and preventing lateral motion of the gate.

Beneath the front end of the gate and just back of the battens a roller a, similar to c, is secured, which supports the front end of the gate, and as the latter is moved back and forth travels upon the rail V. This construction of the gate and its supports permits the front end of the former to be raised, as shown by dotted lines in Fig. 3, that it may pass over obstacles which would otherwise prevent

it from being opened and closed, while attaching the rear pulley at or below the center of the gate makes it easier to raise the front, as the more that end of the gate is elevated the more of its rear end is thrown back of that point of support.

On opposite sides of the rear gate-post C, on a line passing through the center of the same and at right angles with the line of movement of the gate, there are posts F, placed at such distance as may be convenient for the purpose for which they are used, to be hereinafter described. A rock-shaft G is journaled in the tops of the three posts F C F, having a hand-lever H attached to it at each end, which projects outward toward the road. Adjoining the post C a crank I is keyed to the shaft G, which is connected by the pitman N with a crank M on one end of a shaft m, journaled in the uprights of the post D. Between the said uprights a large grooved pulley K is keyed to the shaft m.

At a point l below the roller c there is a cord L, fastened to the batten P'. This cord passes to and around the pulley K, thence to and around a pulley b, journaled between the uprights of the post C, and thence to the batten P', to which it is fastened at n.

Opening and closing the gate is effected by depressing or raising one of the hand-levers H, the movement of the rock-shaft caused thereby being communicated to the gate through the cranks, pitman, pulley, and cord just described.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

With a sliding gate, the combination of a rock-shaft, posts for supporting the same, and means for oscillating it, a pulley journaled in a post back of the rear post of the gate, a pitman connecting the rock-shaft and pulley, and a cord passing around said pulley and having its ends fastened to the rear batten of the gate, and a pulley b, journaled in the rear gate-post, around which the upper end of the cord passes, all arranged and operating substantially as specified.

DANIEL BAKER.

Witnesses:

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