

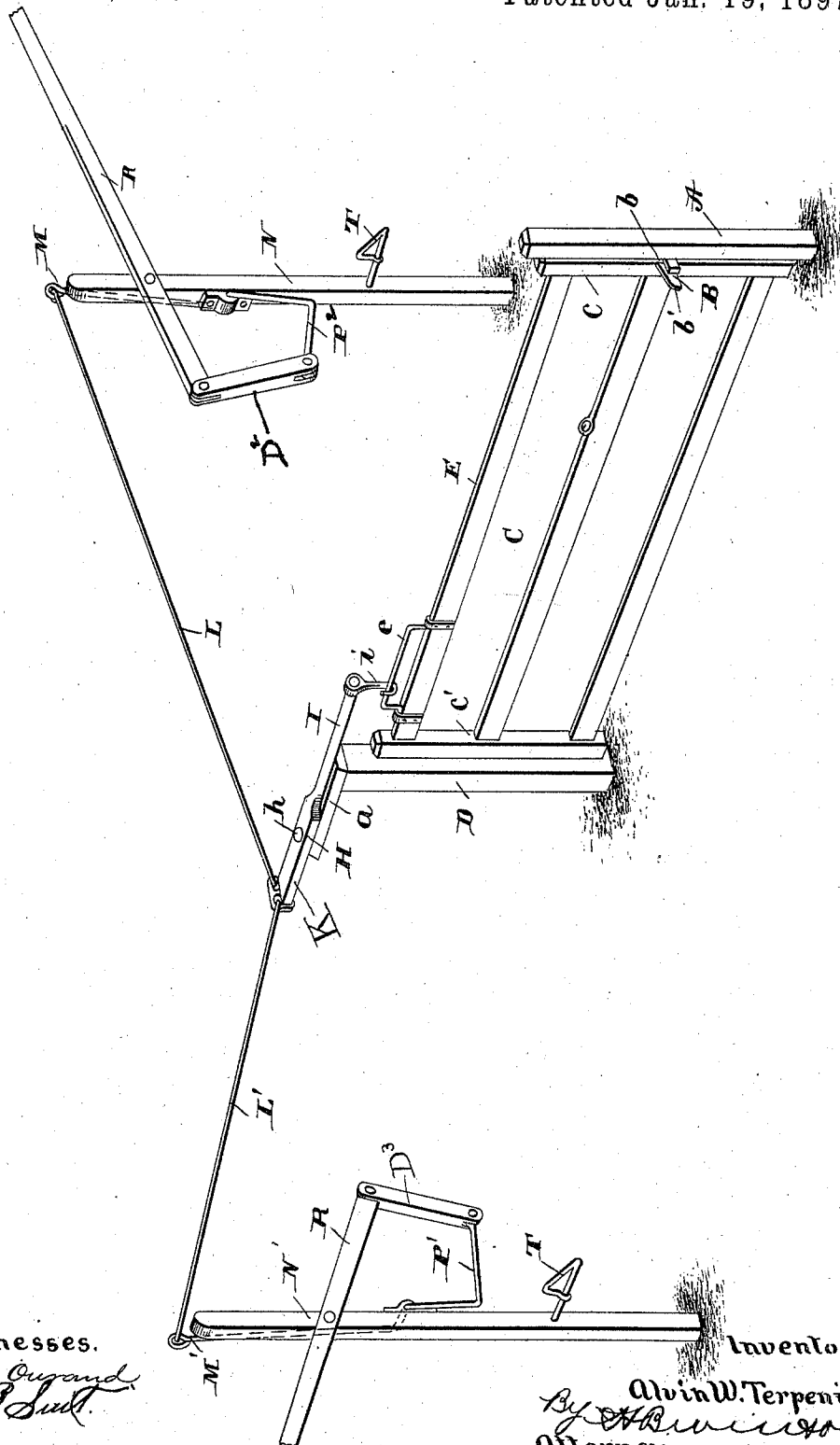
(No Model.)

A. W. TERPENING.
FARM GATE.

3 Sheets—Sheet 1.

No. 575,442.

Patented Jan. 19, 1897.



Witnesses.

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A. B. Smith

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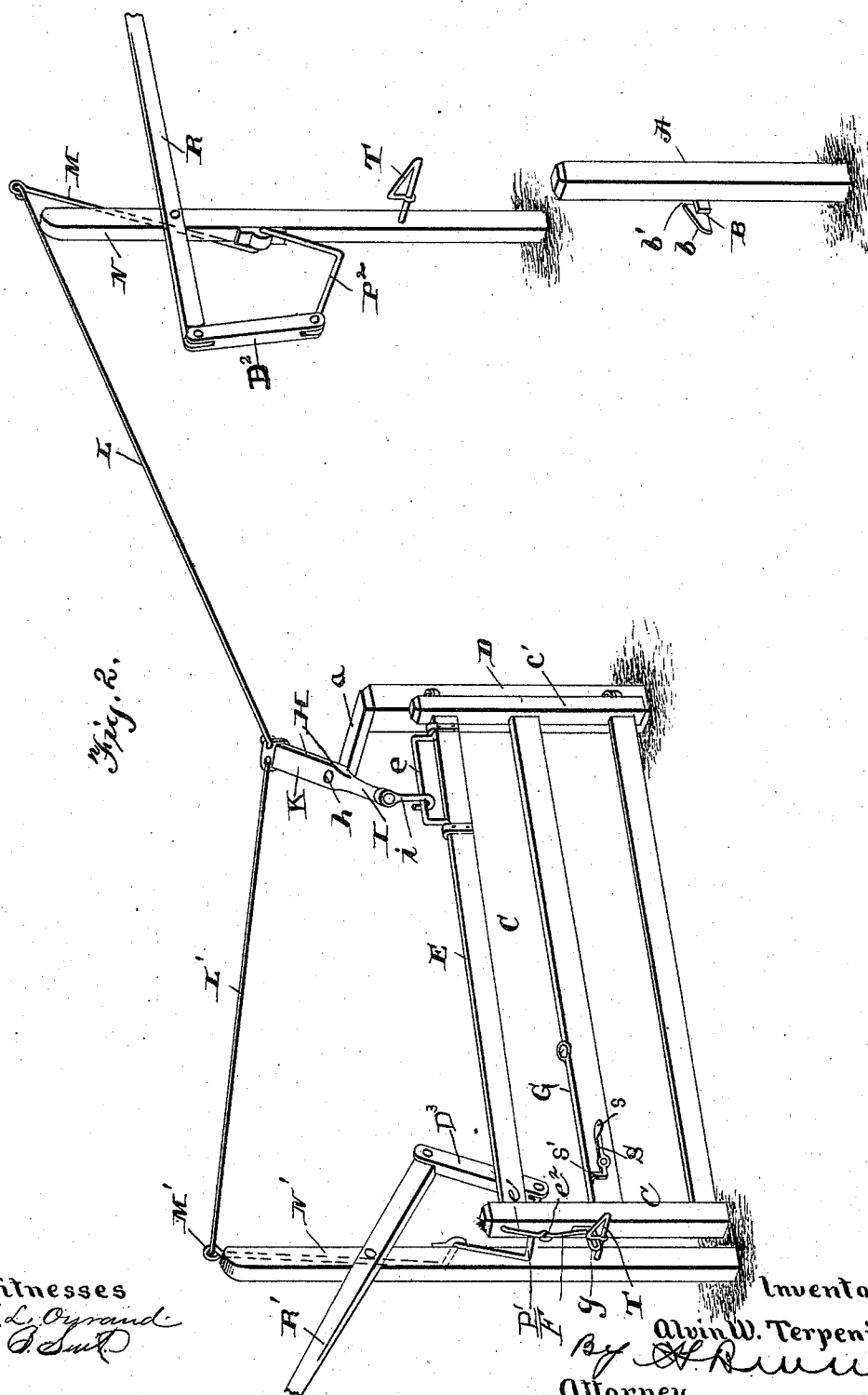
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3 Sheets—Sheet 2.

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Patented Jan. 19, 1897.



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3 Sheets—Sheet 3.

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Fig. 3.

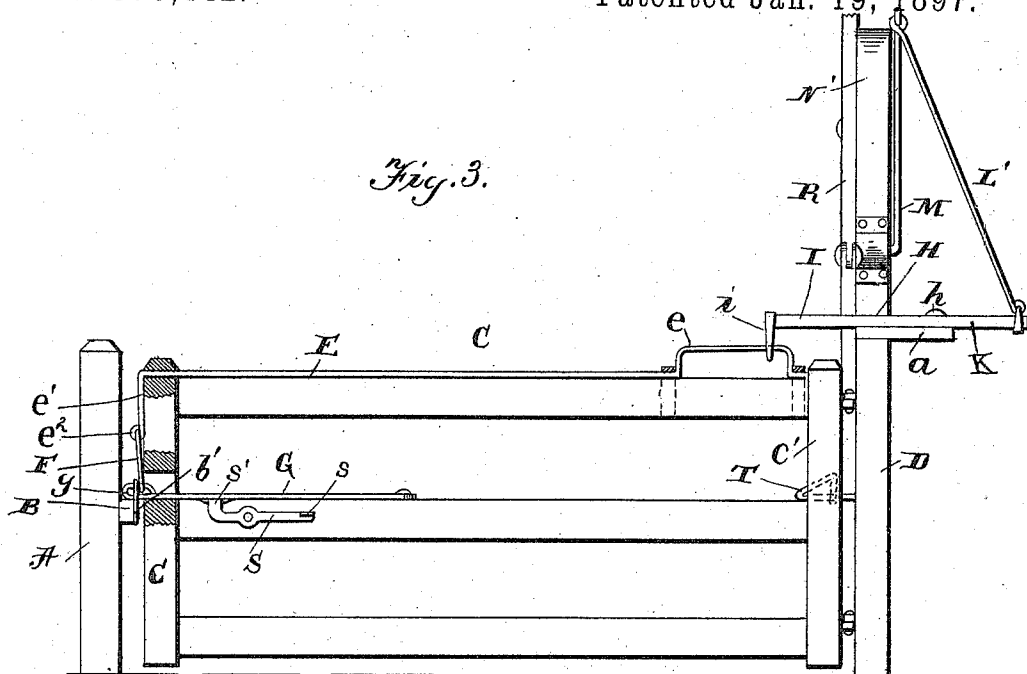
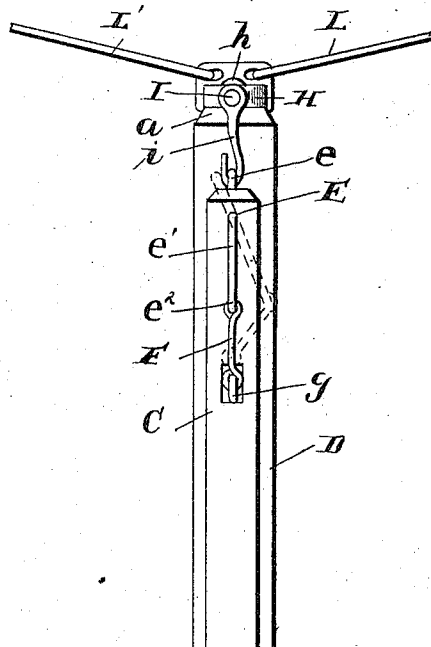


Fig. 4.



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UNITED STATES PATENT OFFICE.

ALVIN W. TERPENING, OF UTAH, ILLINOIS.

FARM-GATE.

SPECIFICATION forming part of Letters Patent No. 575,442, dated January 19, 1897.

Application filed April 7, 1896. Serial No. 586,568. (No model.)

To all whom it may concern:

Be it known that I, ALVIN W. TERPENING, a citizen of the United States, residing at Utah, in the county of Warren and State of Illinois, have invented certain new and useful Improvements in Farm-Gates; and I do 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 has relation to farm-gates; and the object of the device is to provide a gate of this class that will be simple and cheap in construction, reliable in operation, and easily operated by a person on foot, or, if the person be riding in a vehicle or mounted on a horse, as easily opened and closed without alighting as if on foot; and to these ends the novelty consists in the construction, combination and arrangement of the several parts of the same, as will be hereinafter more fully described, and particularly pointed out in the claims.

In the accompanying drawings the same letters of reference indicate like parts of the invention.

Figure 1 is a perspective view of my improved gate as it appears when closed. Fig. 2 is a similar view of the gate open. Fig. 3 is a longitudinal section through the gate, showing the latch and its operating mechanism; and Fig. 4 is a front view of the same.

A is the ordinary post, to which is secured the keeper B, having retaining-recess *b* and inclined faces *b'* *b'*.

C is the gate-panel, and it consists of two uprights *c c'*, to which are secured the ordinary rails, the upright *c'* being hinged to the post D, securely set in the ground.

Along the top of the top rail is mounted an oscillating shaft E, having an elongated integral double crank *e*, and its forward end terminates in a depending arm *e'*, passing through and extending on the outside of the upright *c*, its extreme lower end terminating in an open eye *e²*, to which is secured one end of a connecting-rod F, the other end of which is connected to an open eye *g* in the free end of the spring-latch G, the other end of which is rigidly secured to the top of the second rail, as shown, and it will be ob-

served that if the elongated double crank *e* be operated to oscillate the shaft E to the right or to the left the depending arm *e*, through its connecting-rod F, will raise the spring-latch G out of the recess *b* in the keeper B and allow the gate to be swung in either direction.

H is a horizontal lever fulcrumed at *h* to an arm *a* of the post D. The longer arm I of said lever H is provided with a depending rigid hook *i*, which engages the elongated double crank *e* of the oscillating shaft E, and the shorter arm K of said lever H is connected by a connecting-rod L to the upper arm of a rock-lever M, journaled in the post N, and the depending arm of said lever M is bent longitudinally at a right angle and its outer end P² is connected by a connecting-rod D² with the shorter arm of a hand-lever R, fulcrumed to the side of the post N.

A second connecting-rod L' connects the shorter arm K of the lever H to the upper arm of a rock-lever M', journaled in a post N', and the depending arm of said lever M' is bent longitudinally at a right angle, and its lower horizontal end P' is connected by a connecting-rod P³ with the shorter arm of a hand-lever R', fulcrumed to the side of the post N', these parts being an exact duplication of those first described.

On the second rail of the gate-panel is a hand-lever S, fulcrumed thereto and provided with a handle *s* and an upwardly-extending arm *s'*, which extends along the rail under the spring-latch G, so that when the handle *s* is pressed down by hand the arm *s'* will raise the end of the spring-latch G and release it from the keeper B to open the gate.

The operation of my improved gate is as follows: When a person riding approaches the closed gate, he pulls the longer arm of the lever R down. The first motion of this operates the horizontal lever H, the rigid hook *i* of which forces the enlarged double crank *e* over from the operator. This oscillates the shaft E, which raises the spring-latch from the keeper, and the continued downward movement of the lever R throws the gate forward from the operator until it assumes a longitudinal position at a right angle to its closed position and the end of

the latch catches the keeper T on the post N', thereby holding it in this open position until the rider passes through, after which he simply pulls the lever R' down, which releases the latch from the keeper T, and the gate is then swung to and closed by the latch riding up the inclined face *b'* of the keeper B and then dropping in the recess *b*, thus securing the gate in a closed position.

10 Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. A farm-gate comprising the hinge-post D, provided with the rearwardly-projecting arm *a*; the gate proper C, carrying upon its upper rail the oscillating shaft E having the elongated double crank *e* and the depending arm *e'*; in combination with the connecting-rod F; the spring-latch G; the horizontal lever H fulcrumed on arm *a*; the rigid hook *i* depending from said lever and engaging crank *e*; rock-lever M, and hand-lever R secured to post N; and rods L and D² respectively connecting the upper and lower ends of lever M

with levers K and R, substantially as and for the purpose set forth. 25

2. A farm-gate comprising the hinge-post D, provided with the rearwardly-projecting arm *a*; the gate proper C carrying the oscillating shaft E, having the elongated double crank *e* and the depending arm *e'*; the rod F; the spring-latch G; the hand-lever S, fulcrumed to one of the rails of said gate, and adapted to operate said latch; the horizontal lever H fulcrumed on arm *a*; the rigid hook *i* depending from said lever and engaging crank *e*; rock-lever M and hand-lever R fulcrumed on post N, and rods L and D², respectively connecting the upper and lower ends of lever M with levers K and R, substantially as and for the purpose set forth. 30 35 40

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

ALVIN W. TERPENING.

Witnesses:

GEO. A. COOKE,

A. B. HARRIS.