

(No Model.)

T. E. BRODT.
SWINGING GATE.

No. 400,631.

Patented Apr. 2, 1889.

~~Fig. 1.~~

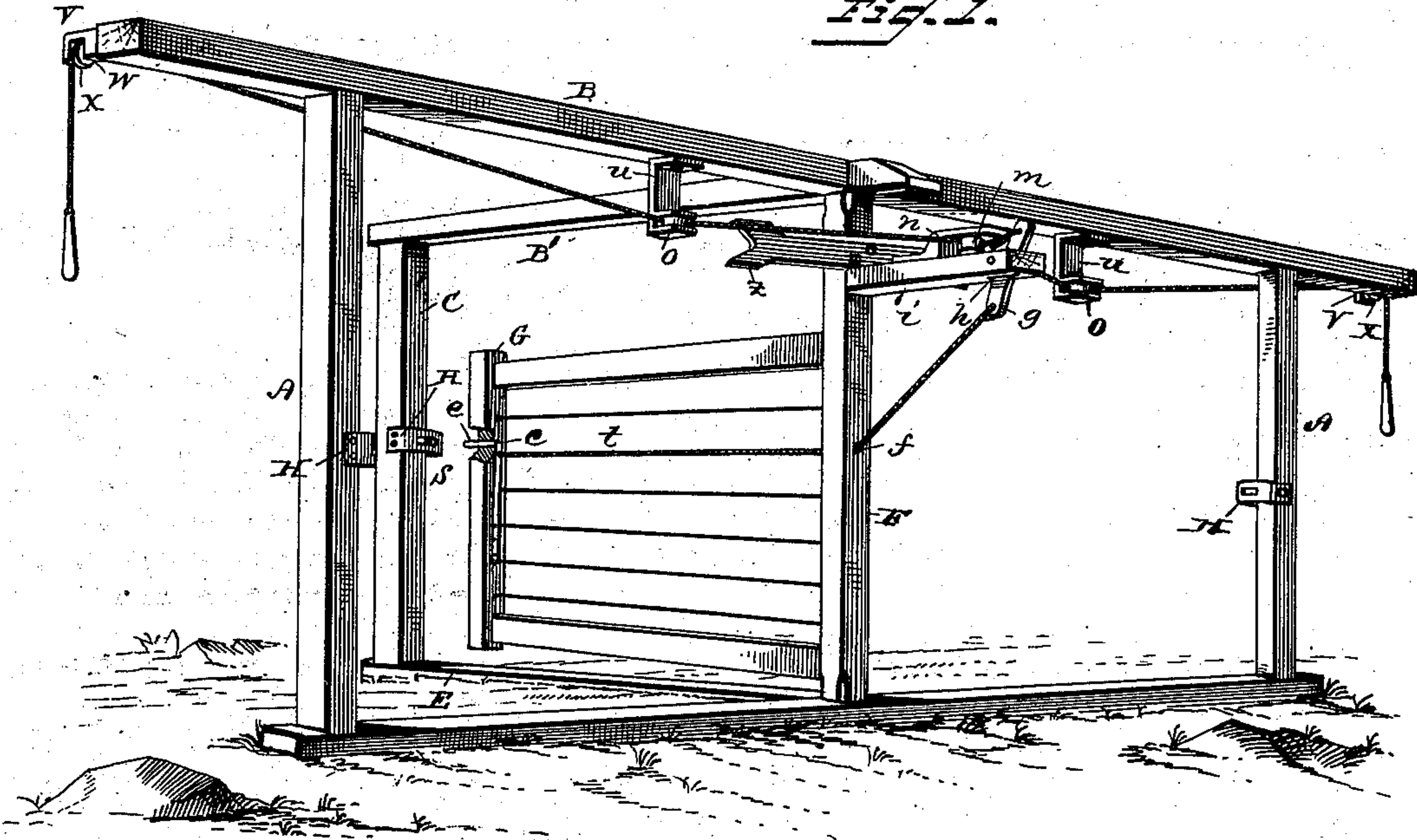
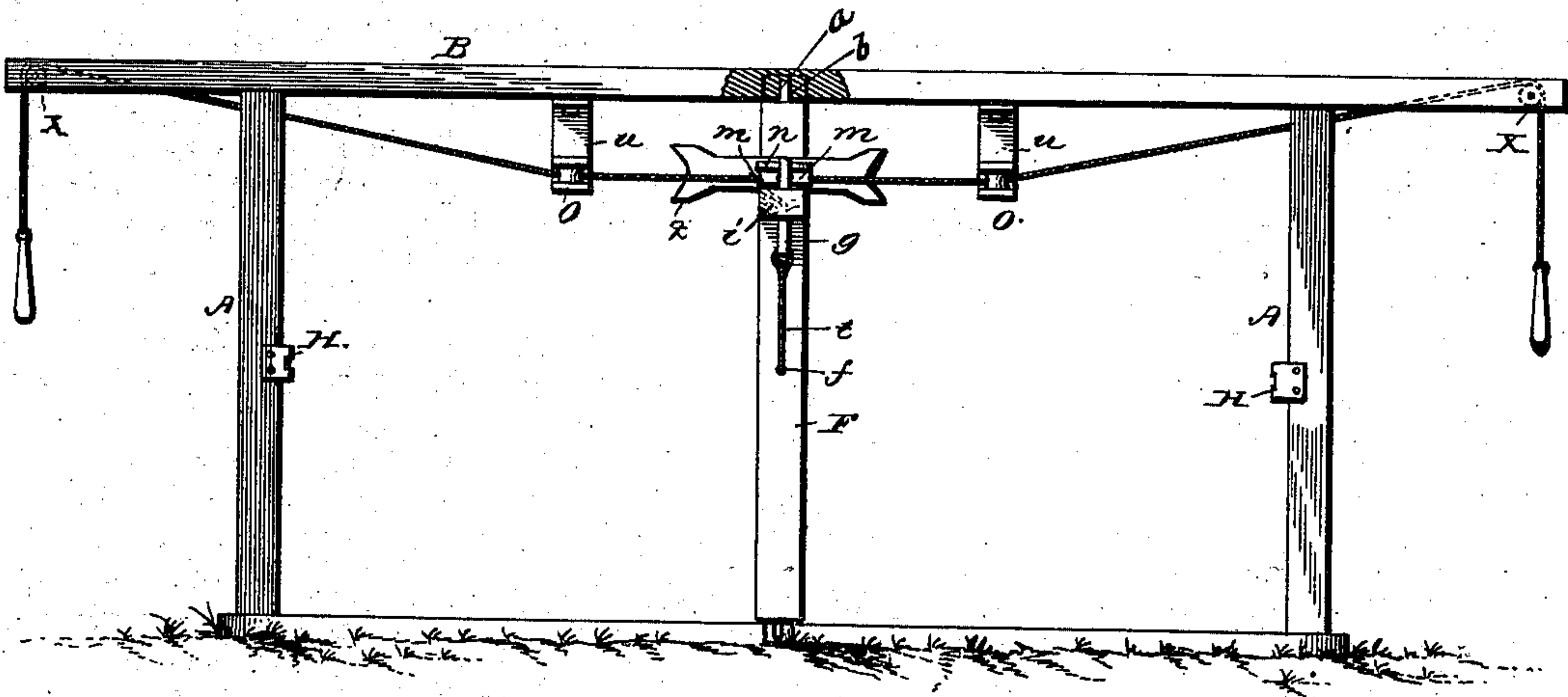


Fig. 2.



Witnesses

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SWINGING GATE.

SPECIFICATION forming part of Letters Patent No. 400,631, dated April 2, 1889.

Application filed May 7, 1888. Serial No. 273,016. (No model.)

To all whom it may concern:

Be it known that I, TILDEN EUGENE BRODT, a citizen of the United States, residing at Brodtville, in the county of Grant and State of Wisconsin, have invented certain new and useful 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 appertains to make and use the same.

My invention relates to that class of swinging gates which are opened and closed by means of cords or wires extending along and suspended from posts or frames, to avoid the necessity of getting out of a vehicle in order to open or close them.

The particular form of my improved gate is shown in the accompanying drawings, and its operation and advantages described in the following specification.

Reference being had to the drawings, it will be seen that Figure 1 is a perspective view of my improved gate partly open, and Fig. 2 is a rear view of the gate when closed.

Similar letters refer to similar parts in both views.

In constructing this gate, posts A are placed firmly in the ground, or may be fixed to a sill, as shown in the drawings, and are connected with each other and braced by means of a cross-beam, B, on top of and extending on either side beyond the posts A. A third post, C, is also set in the ground, or may rest on a sill at a point from the center of the cross-beam B of just half the distance between the posts A. The top of the post C is connected with the beam B and braced by a cross-piece, B', and from the bottom of the post C to a point under the center of the beam B there is partly sunk in the ground a sill, E. This sill forms a bearing for the bottom of the post F, which revolves upon it by means of a pin fixed in the post and working loosely in a hole or slot in the sill. A corresponding pin, *a*, is fixed in the top of the post F and works in a slot, *b*, in the beam B. To the post F is built the gate proper, which may be of the usual form or may have wires strung across it between the top and the bottom boards, which connect the posts F and G. Through a hole, *c*, in the post G works a spring-latch, *e*, fast-

ened at its lower end to the post and operated or released from the catch H by means of a wire, *t*, running from the top of the latch through a hole, *f*, in the post F to the lower end of the lever *g*. This lever is pivoted in a slot, *h*, in the outer end of an arm, *i*, which extends at right angles from the post F near its top.

On the upper side of the arm *i* and near the lever *g* are two pulleys, *m*, which revolve horizontally on pins that pass through a hood, *n*, which is securely fixed to the arm *i* and extends over the pulleys. Above the arm *i*, to the post F, is fastened a double fish-tail piece, *z*, at right angles with the arm *i*. From the beam B on either side of the post F and between it and the posts A are suspended pulleys *o*, which revolve horizontally in the pulleys-supports *u*. At the ends of the beam B extend inwardly brackets *v*, having slots *w*, in which vertically revolve pulleys *x*. From the upper end of the lever *g* extend in opposite directions wires or ropes, which pass between the pulleys *m* on the inside of the pulleys *o* and over the pulleys *x* and terminate in suitable handles at a convenient distance from the ground.

The catch H, which is a part of the latching device of my gate, is preferably made of metal bent to form rounded corners and embrace the post to which it is attached. In addition to having a catch H on the post C, I provide each of the posts A with a catch, so that the gate may be held open on either side or may close roadways running at right angles with the road, for which the gate is specially constructed. When the gate is in this position, by pulling either of the handles the upper end of the lever *g* is drawn in and the lower end correspondingly drawn out, causing the wire *t* to release the spring-latch from its catch on one of the posts A, and by reason of the lateral tension caused by the ropes or wires bearing on the fish-tail piece the same movement serves to close the gate, and this is one of the important advantages of my invention. A similar operation, in which, however, the piece *z* is not a factor, serves to open the gate.

While my improved gate is applicable to all purposes of the farm or city roadways, it is especially adapted to stock-yards, where it is

frequently desired to open one alley and at the same time close another. The simplicity of its operation, the cheapness of its construction, and the fact that the parts liable to get
5 out of order by reason of exposure to the weather are protected from the elements are points in my improved gate which render it useful and practical.

Having thus described the construction and
10 operation of the gate which I have invented, what I claim as novel, and desire to secure by Letters Patent, is—

1. In a swinging gate, the combination, with the posts A and cross-beam B, of the post C,
15 the gate having the outer post, G, and the extended inner post, F, which is pivoted in the beam B and in a suitable base, the spring-latch C on the outer post of the gate, a wire, *t*, attached to said latch and extending through
20 the post F, an arm, *i*, extending out from the post F near its top, a lever, *g*, centrally pivoted in the outer end of the arm *i*, pulleys on the arm in the rear of the lever, the brackets
25 *u* on the beam B, having pulleys mounted thereon, pulleys on the ends of the beam B,

the ropes, and catches on the posts A and C, substantially as described.

2. The combination of the posts A A and C, having catches H, the cross-beams B B', the gate consisting of posts F and G, connected
30 by boards or wires, the spring-catch *e*, the wire *t*, lever *g*, arm *i*, hood *n*, pulleys *m*, fish-tail piece *z*, brackets *u* and *v*, pulleys *o* and *x*, and ropes or wires for operating the lever *g*, substantially as herein set forth.

3. The combination, with the posts A and C and the beam B, of the gate-post F, having arm *i* extending therefrom, the lever *g*, centrally pivoted in the end of the arm, its
35 arms being above and below the arm *i*, respectively, the latch on the gate, the flexible connection between the same and the lever *g*, the pulleys on the arm and ends of the beam, and the catches on the posts A and C, substantially as described.

TILDEN EUGENE BRODT.

Attest:

FRANK H. KOLB,
NEWTON BRODT.