

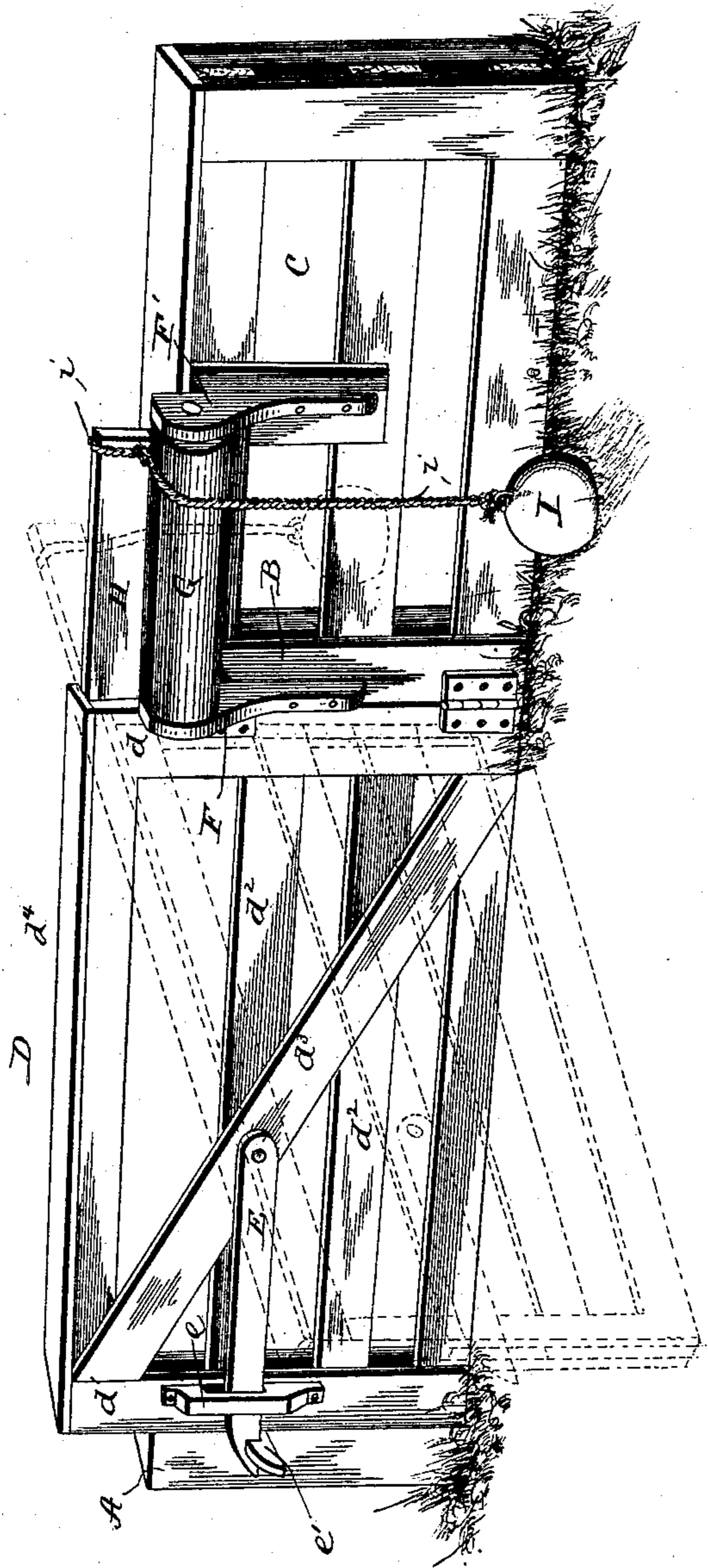
(No Model.)

J. W. PARK & W. R. SANDERS.

GATE.

No. 387,730.

Patented Aug. 14, 1888.



Witnesses,

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# UNITED STATES PATENT OFFICE.

JAMES WESLEY PARK AND WILLIAM RILEY SANDERS, OF SULLIVAN,  
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## GATE.

SPECIFICATION forming part of Letters Patent No. 387,730, dated August 14, 1888.

Application filed April 24, 1888. Serial No. 271,665. (No model.)

*To all whom it may concern:*

Be it known that we, JAMES WESLEY PARK and WILLIAM RILEY SANDERS, citizens of the United States, residing at Sullivan, in the county of Sullivan and State of Indiana, have invented a new and useful Improvement in Gates, of which the following is a specification.

The invention relates to improvements in gates, being adapted for attachment to either farm or yard gates; and it consists in the construction and novel combination of parts hereinafter described, illustrated in the accompanying drawing, and pointed out in the appended claims.

The figure in the drawing is a perspective view of a gate embodying the invention, the gate being shown open in dotted lines.

In the drawing, A designates the latch-post, B the hinge-post, and C the panel adjoining the gate and extending from the hinge-post.

The gate D is composed of the vertical end bars,  $d$   $d'$ , respectively, which are arranged in pairs, with the ends of the rails  $d^2$  secured between them, the pair of bars  $d$  adjoining the hinge-post and the pair  $d'$  adjoining the latch-post.

The gate has the diagonal brace  $d^3$ , running from the top of the end bar  $d'$  to the bottom of the end piece  $d$  on its front or outer side, and it has, also, the cap-board  $d^4$ , which connects the tops of the end bars and stands edge-wise transversely.

E is a latch-bar, pivoted at its inner end to the middle portion of the diagonal brace passing through the vertical staple  $e$  on the side of the outer end bar,  $b'$ , and engaging at its outer end the upwardly-facing latch-hook  $e'$ , secured to the latch-post.

F F' are bearing-brackets secured to the panel C, the former to the hinge-post and the latter to the rails of the panel at about the central part thereof. The said brackets stand vertically, and have in their upper portions the bearing-openings for the journals of the long roller G, which is of large diameter.

H is a horizontal arm extending from between the tops of the vertical end bars  $d'$ , above the top rail of the fence-section C. The said arm is aligned with the top rail of the

gate, and may, if desired, be an extension therefrom. The said arm H extends nearly, but not quite, to the inner end of the roller, and has secured to it near its end a cord or rope,  $i$ , which passes over said roller and has a weight, I, attached to its lower end, which weight nearly touches the ground when the gate is closed.

The operation of the invention is obvious from the above construction. The roller is made as long as described for the purpose of supporting the rope  $i$  at whatever angle the arm H may stand in relation to the panel C, and is made of large diameter to better support the rope  $i$  and not press thereon within too narrow a space, so that there would be danger of wearing through the rope. The weight I, combined with the leverage of the arm H, counterbalances the gate and prevents the latter from sagging.

Having described our invention, we claim—

1. The combination, with the hinged gate and the arm extending therefrom over the fence-panel adjoining and attached to the hinge-post, of the horizontal roller of large diameter journaled in brackets at the top of the panel, which are respectively secured to the hinge-post and to the middle portion of the panel extending from said post, the rope having its upper end secured to said arm near the end thereof, and the weight secured to the lower end of the rope and nearly touching the ground when the gate is closed, substantially as specified.

2. The combination, with the hinged gate and the arm extending horizontally from the end bars thereof, adjoining the hinge-post and extending over the panel adjoining said post, of the rope attached to said arm near the end thereof, the long horizontal roller of large diameter journaled in brackets secured to the top of the panel adjoining the hinge-post, and the weight attached to the lower end of said rope, the weight and the leverage of the arm combined counterbalancing the gate and preventing the same from sagging, substantially as specified.

3. The combination of the latch-post A, the vertical bar  $e^2$ , secured thereto, the latch-hook  $e'$ , the gate composed of the pairs of end bars,

*d d'*, and connecting-rails, the latch-bar pivoted to the gate, the hinge-post B, the panel C, extending from the hinge-post, the arm H, extending over said panel, the long horizontal  
5 roller G, journaled on the brackets F, secured to the top of the panel C, the rope *i*, and the weight I, all constructed and arranged substantially as and for the purpose specified.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

JAMES WESLEY PARK.

WILLIAM RILEY SANDERS.

Witnesses:

WM. T. CRAWFORD,

L. E. LISTON.