

(No Model.)

T. URIE.
GATE.

No. 286,092.

Patented Oct. 2, 1883.

Fig. 1.

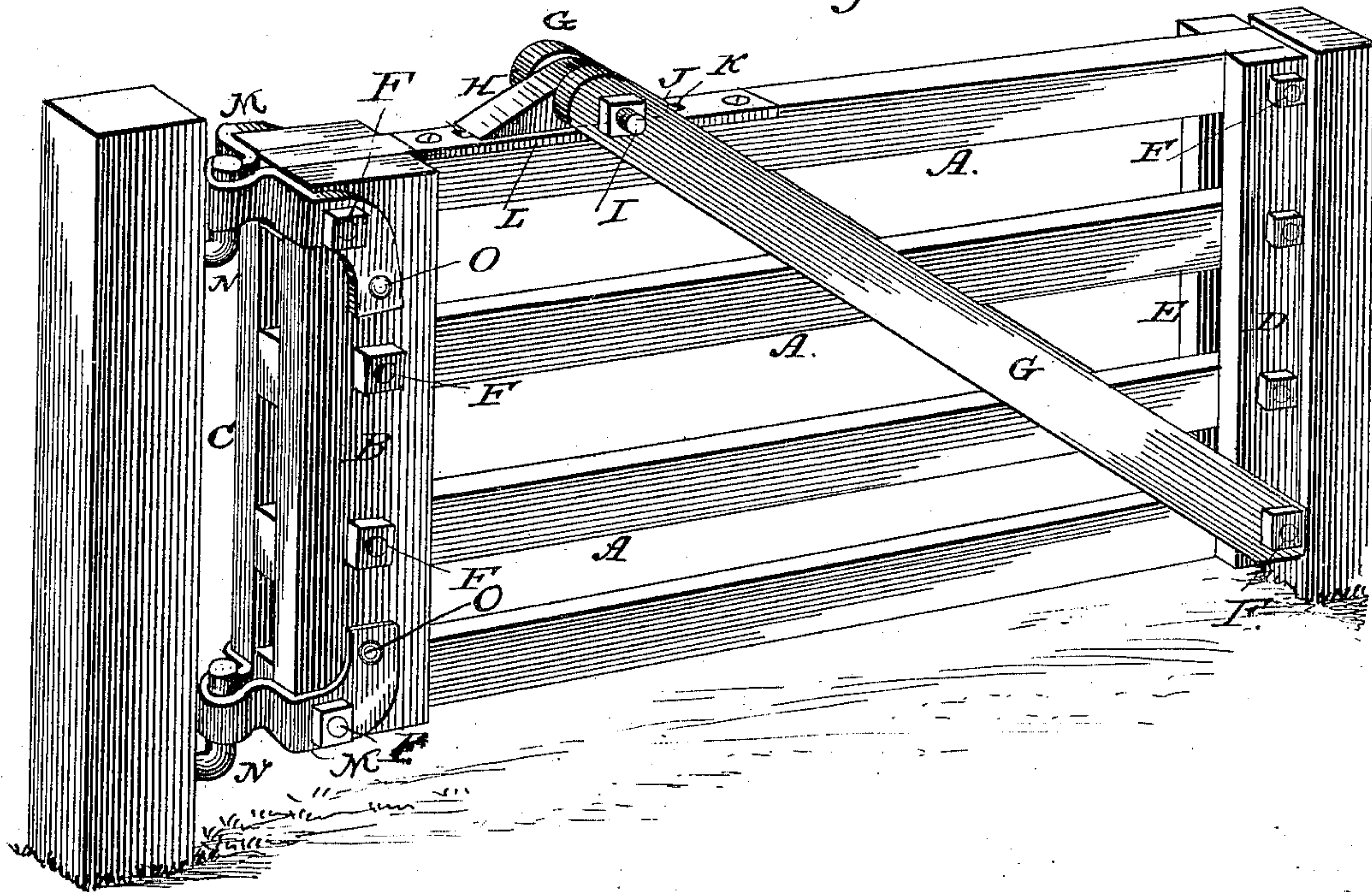


Fig. 2.

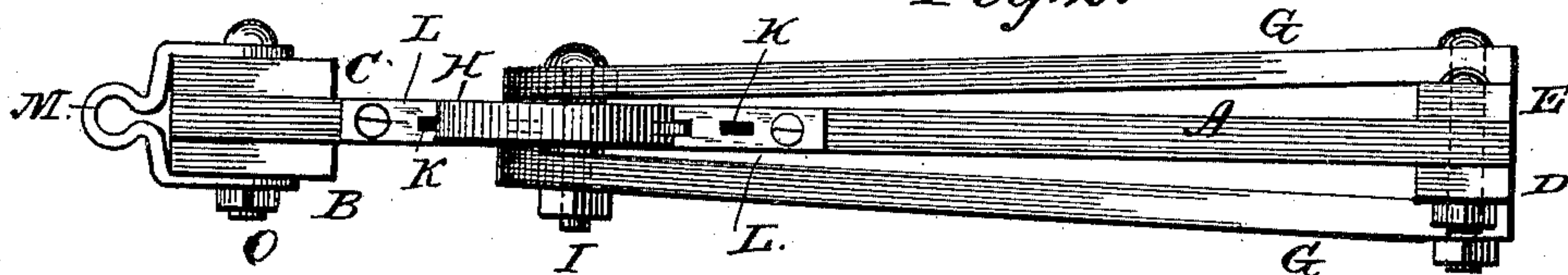
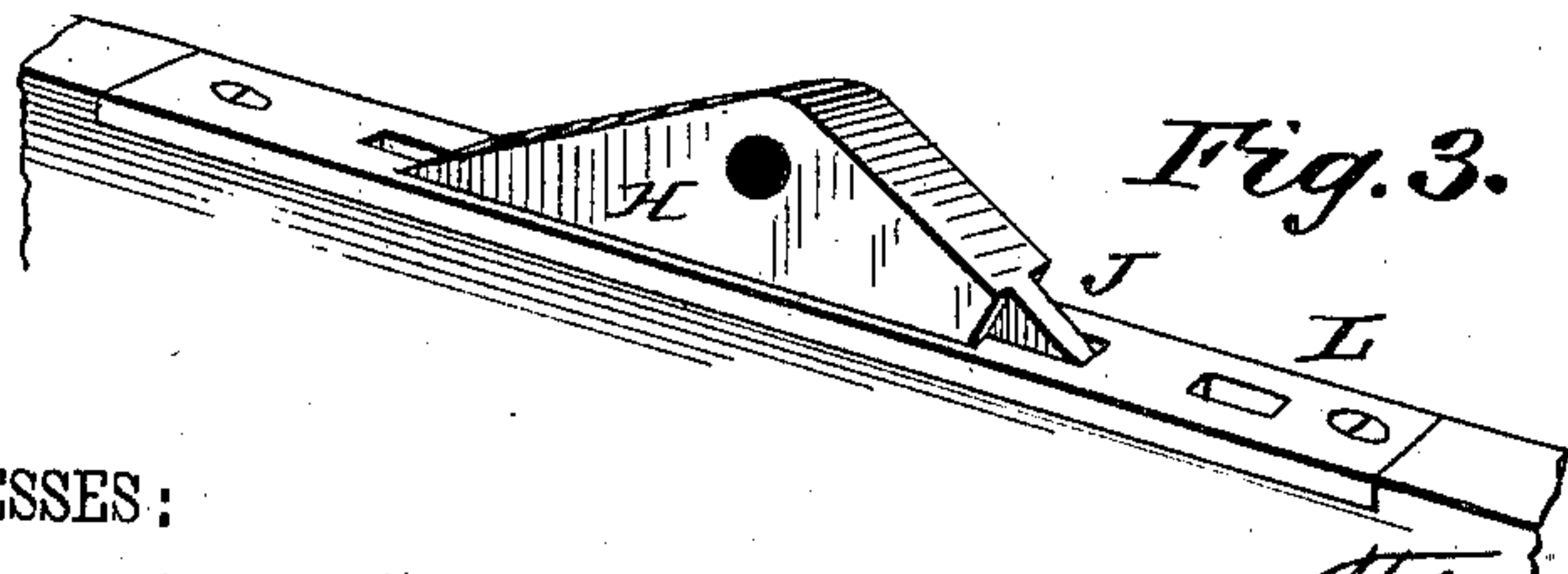


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

THOMAS URIE, OF BOULDER, COLORADO, ASSIGNOR OF ONE-THIRD TO
FREDERICK S. HALL, OF SAME PLACE.

GATE.

SPECIFICATION forming part of Letters Patent No. 286,092, dated October 2, 1883.

Application filed May 4, 1883. (No model.)

To all whom it may concern:

Be it known that I, THOMAS URIE, of Boulder, in the county of Boulder and State of Colorado, have invented certain new and useful Improvements in Gates; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved swinging gate. Fig. 2 is a top view of the same, and Fig. 3 is a detail view of the catch.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to that class of adjustable swinging gates in which the free end of the gate may be adjusted in a raised or lowered position by means of a dog or catch pivoted in the outer end of two diagonal struts or braces hinged at the lower outer corner of the gate, and engaging a series of notches in the upper rail of the same; and it consists in the detailed construction and combination of parts of the catch, as hereinafter more fully described and claimed.

In the accompanying drawings, the letters A indicate a number of horizontal rails, hinged by means of bolts F, passing through their ends between two pairs of upright posts, B C and D E, in such a manner that either end of the gate-panel thus formed may be raised or lowered, all the rails remaining parallel. Two struts or diagonal braces, G, are hinged at one end upon the bolt F in the outer lower corner of the gate, and extend upward and rearward, having a dog or catch, H, pivoted between their upper ends upon a bolt, I, which dog has a reduced flattened point, J, which engages a series of slots, K, in a metallic plate, L, fastened in the upper edge of the top rail, so that by moving the upper ends of the struts and the dog from a slot nearer to the outer end of the gate to a slot nearer to the inner end of the gate the outer end of the gate will be raised, and vice versa. The dog is formed in the shape of a triangle, having its upper point rounded, and the point pointing in the direction of the outer end of the gate reduced to form shoulders and slightly downwardly pointing, so that

it will catch into the slots of the metallic plate, bearing with its base upon the upper surface of the same, thus always forcing the point into one of the slots when slid upon the plate, and resting with its entire base upon the same, the metallic plate preventing wear and breakage upon the upper rail, and preventing it from being weakened by slots or notches cut into it, as is often the case in gates of this class, the slots in this gate being only cut into the plate.

The gate is hung upon two hinges, formed by two flat metallic bars, M, bent to form eyes *m* at their middle, which fit and turn upon two pintles, N, fastened in the post upon which the gate is hung, whereupon the ends are bent to clamp the sides of the end posts of the gate-panel, and secured by the lower and upper of the bolts F, one end of each bar upon the side of one of the end posts being bent at a right angle to the clamping portion of the bar, and secured by means of a bolt, O, passing through it and through one of the end posts. By this manner of forming the hinge it may be made very substantial and at a very low cost, with very little labor, and it will be seen that by removing one of the bolts F the corresponding rail may be removed for repairs, or any other purpose, without disturbing the remainder of the gate, the bolts O supporting the end post if either the upper or lower bolt F is removed.

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

The combination, in a fence the rails of which are hinged to swing in a vertical plane, of a triangular dog pivoted between the upper ends of two inclined struts hinged at the lower outer corner of the gate, said dog having a flat lower edge and a flat reduced point, bent slightly downward upon the end pointing toward the outer end of the gate, with a slotted plate fastened upon the upper edge of the upper rail of the gate, as and for the purpose shown and set forth.

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

THOMAS URIE.

Witnesses:

W. B. TETERS,

G. A. VAN FLERT.