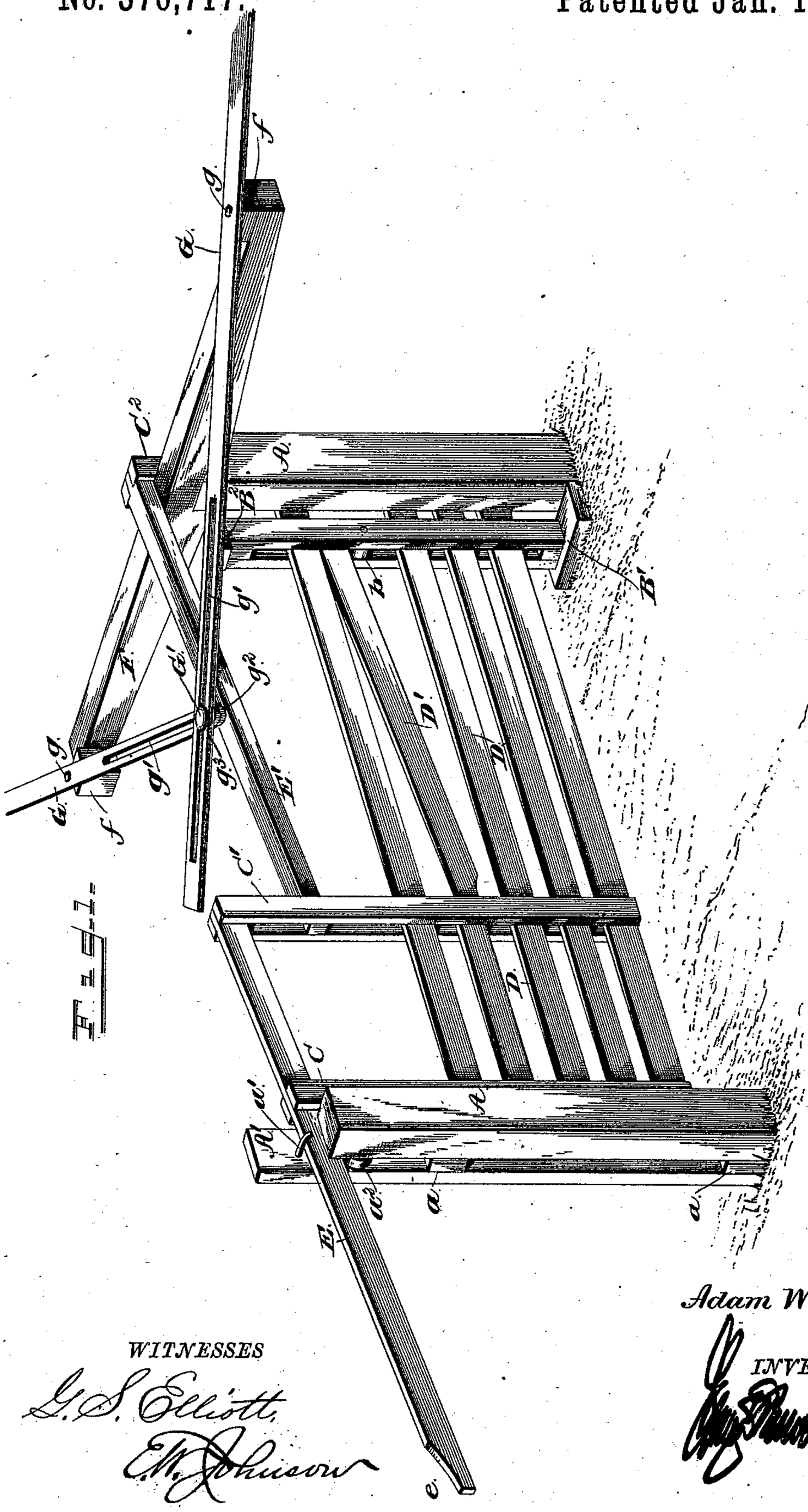
(No Model.) 2 Sheets—Sheet 1.

A. W. MEEK.

SLIDING GATE.

No. 376,717. Patented Jan. 17, 1888.



WITNESSES

G. S. Elliott.

E. M. Johnson

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INVENTOR

Attorney

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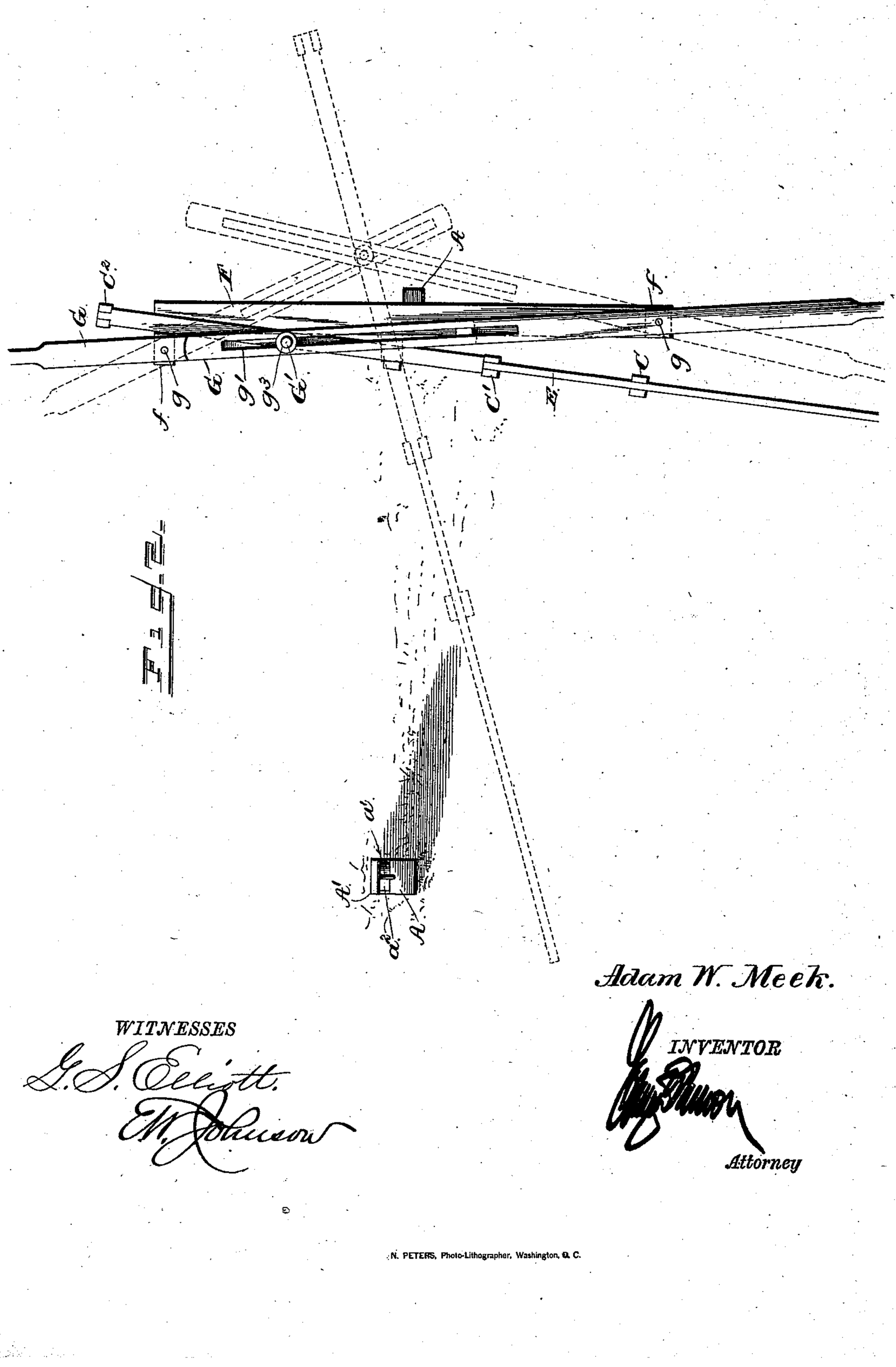

WITNESSES

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UNITED STATES PATENT OFFICE.

ADAM W. MEEK, OF HUDSON, INDIANA, ASSIGNOR OF ONE-HALF TO DAVID E. MEEK, OF SAME PLACE.

SLIDING GATE.

SPECIFICATION forming part of Letters Patent No. 376,717, dated January 17, 1888.

Application filed October 6, 1887. Serial No. 251,634. (No model.)

To all whom it may concern:

Be it known that I, ADAM W. MEEK, a citizen of the United States of America, residing at Hudson, in the county of Steuben and State of Indiana, have invented certain new and useful Improvements in Sliding 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to an improvement in gates; and it consists in the construction and arrangement of the parts thereof, which will be more fully hereinafter described, and pointed out in the claims.

The object of my invention is to provide a convenient form of gate which is adapted to be partially or wholly opened, as may be desired, and which is operated by suitable extending levers.

In the accompanying drawings, wherein like letters of reference indicate similar parts in the several views, Figure 1 is a perspective view of my improved form of gate, showing the same partially opened. Fig. 2 is a top plan view thereof, showing the gate wholly opened in full lines and in the act of closing in dotted lines.

A indicates the two posts, the forward one of which has a strip, A′, mounted therewith, and separated therefrom to form an open space by dividing-blocks *a*, which are a sufficient width apart to allow the gate to enter between the same. The strip A′ projects above the post A, adjacent thereto, and has a hook-arm, *a′*, projecting inwardly over the top of the said post. At the upper portion of the post and between the same and the strip A′ a roller, a^2, is mounted, for a purpose which will be more fully hereinafter set forth.

Adjacent to the rear post A a slotted guide-standard, B, is mounted upon a suitable base-block, B′, and connected to the said post by a cap-strip, B^2, the said standard being pivoted at its upper and lower ends in said base-block and cap-strip. Within said standard an anti-friction roller, *b*, is mounted.

The gate is provided with forward uprights, C and C′, inclosing the front portions of the rails D, the upright C being mounted at the front end of the gate and the upright C′ in the rear thereof. The gate is also provided with a rear upright, C^2, which incloses the rear ends of the rails D. The uprights C and C′ project above the top rail, D, the latter projecting slightly above the former, and have a downwardly-inclined arm, E, secured in the top thereof, which is adapted to pass under the arm *a′* and over the roller a^2 when the gate is slid toward the front post A. The said arm E is also provided with a reduced outer end, *e*, which clears the hooked arm *a′* when the gate is swung open. The rear upright, C^2, also projects upward, and has one end of a downwardly-inclined arm, E′, secured thereto, and at its opposite end to the upright C′. This arm moves over the top of a cross-head, F, centrally mounted on the top portion of the rear post A, by means of a mortise formed therein, which engages with said post. The top surface of the cross-head beam F is slightly beveled from the rear to the front, to accord with the incline of arm E′, which rests and slides thereon, and on its outer ends level fulcrum-blocks *f* are secured, upon which extended levers G are mounted by fulcrum-pivots *g*. The inner portions of the said levers G are formed with elongated slots *g′*, through which passes a vertically-mounted headed pin, G′, the said pin being secured to the rear downwardly-inclined arm, E′. A washer, g^2, is mounted on the pin G′, between the two levers G, one of which is situated above the other. A top washer, g^3, is also provided, which engages with the top surface of the upper lever, G, between the same and the head of the pin G′. These washers prevent wear upon the levers in their sliding movement.

Between the uprights C′ and C^2 a rail, D′, is mounted and secured at its ends therein. This rail inclines downwardly from the rear upright, C^2, to the forward upright, C′, passing through the guide-standard B and over the roller *b*.

The arms E and E′ and rail D′ are all inclined downward and are parallel, as shown in Fig. 1.

The operation of my improved gate is as fol-

lows: By pulling one or the other of the levers G inward from the cross-head F the gate is drawn partially back through the guide-standard B. When the gate moves back, the arm E slides over the roller a^2, the arm E′ over the top of the cross-head F, and the rail D′ over the roller *b* in the guide-standard, and thereby slightly elevate the gate from the ground. This operation is due to the inclination of the said arms and rail, and by said elevation of the gate small live stock is permitted to pass thereunder, while larger stock or vehicles pass through the opening between the end of the gate and the outer post. When the gate has been drawn back a sufficient distance to permit the reduced outer end, *e*, of the arm E to clear the hooked arm *a′* and the top of the post A, it may be swung open, as shown in Fig. 2, in the pivoted guide-standard B. The levers G are then drawn inward toward the cross-head F, as shown in full lines in Fig. 2, from the position shown in dotted lines in said figure, and thereby form no impeding projections against the unretarded passage of a vehicle between the posts A.

The handles of the levers G project outward a sufficient distance to be readily engaged when it is desired to operate the gate.

The parts are all constructed durable and light and operate with positiveness and accuracy.

The utility of my improvement being obvious, it is unnecessary to further enlarge upon the same herein.

Having thus described my invention, what I claim as new is—

1. The combination, with the posts and the gate carrying the inclined arms, of the cross-head, the pivoted guide-standard carrying a roller and connected to the rear post, and the elongated slotted levers working on a pin secured to one of the inclined arms and secured to the outer end of the cross-head by being fulcrum-pivoted, substantially as described.

2. The combination, with the front and rear posts, of the extending strip vertically mounted with the front post and separated therefrom, the hooked arm at the top of said strip, the roller between the said front post and vertical strip, the cross-head on the rear post having a top beveled surface, the extended uprights of the gate carrying downwardly-inclined arms, the forward arm, E, having an outer reduced end, the inclined rail within the gate, the pivoted guide-standard having a roller therein, and the extended levers slotted at their inner ends and in movable engagement with a stud or pin on the inclined arm E′ of the gate and pivotally fulcrumed on the ends of the cross-head, substantially as described.

3. The combination of the posts A, the strip A′, having a hooked arm, *a′*, the roller a^2, the guide-standard B, pivoted between a base-block, B′, and a top connecting-cap, B^2, the roller *b* in said standard, the cross-head F, having end fulcrum-blocks, *f*, the gate having the extended uprights C, C′, and C^2, the forward inclined arm, E, the rear inclined arm, E′, the inclined rail D′, the elongated slotted levers G, pivoted to the fulcrum-blocks *f*, and the headed pin G′, secured to the arm E′ and passing through slots in the said levers and having washers thereon separating the said levers, substantially as described.

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

ADAM W. MEEK.

Witnesses:
A. S. SOCKUDER,
EHE. HACKATHORN.