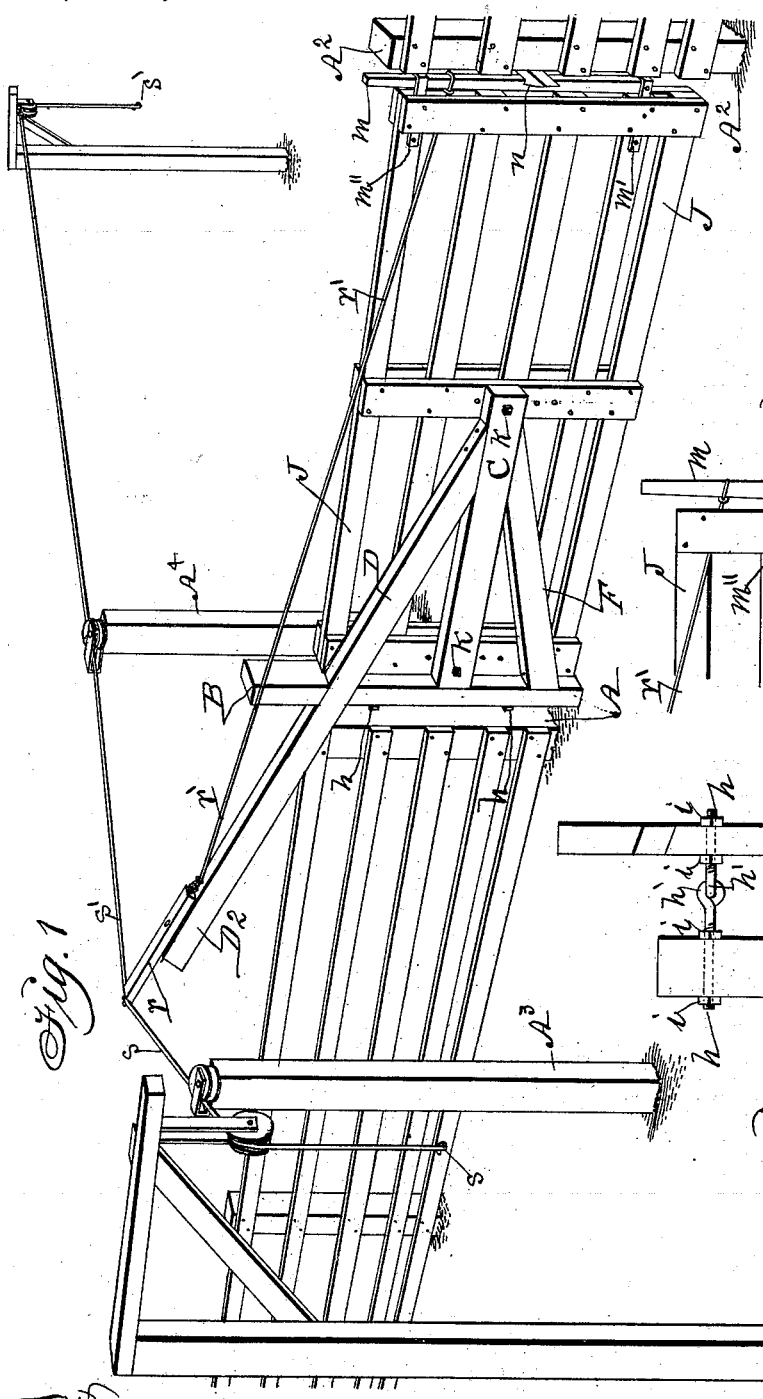
No. 648,559. Patented May 1, 1900.

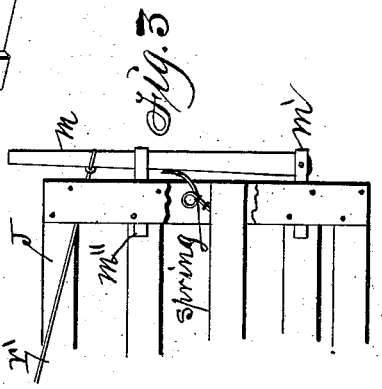
J. L. GROUT.

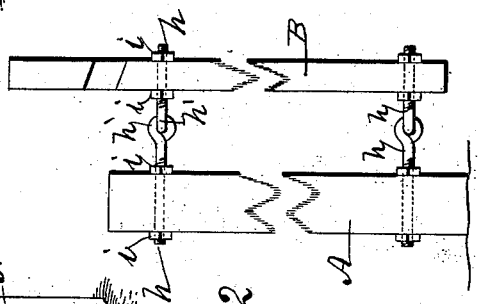
FARM GATE.

(Application filed Dec. 12, 1899.)

(No Model.)







Witnesses:
R. S. Orwig.
F. C. Stuart

Inventor: James L. Grout,
By Thomas G. Orwig, Attorney.

UNITED STATES PATENT OFFICE.

JAMES LEE GROUT, OF BONACORD, IOWA.

FARM-GATE.

SPECIFICATION forming part of Letters Patent No. 648,559, dated May 1, 1900.

Application filed December 12, 1899. Serial No. 740,040. (No model.)

To all whom it may concern:

Be it known that I, JAMES LEE GROUT, a citizen of the United States, residing at Bonacord, in the county of Johnson and State of Iowa, have invented a new and useful Farm-Gate, of which the following is a specification.

My object is to provide a frame specially adapted to be utilized in the manner of a crane for adjustably connecting a gate and mechanism for unlatching and swinging the gate horizontally as required in opening and closing the gate.

My invention consists in the arrangement and combination of fixed posts, a gate-support hinged to a post, a gate adjustably fixed to the hinged gate-support, a spring-actuated latch, and means for operating the latch and swinging the gate, as hereinafter set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view showing the gate in a closed and latched position. Fig. 2 is a detail view illustrating the manner of hinging the gate-support or crane to the fixed post. Fig. 3 illustrates the manner of applying the spring-actuated latch.

The letter A designates the base of the crane, in the form of a fixed post.

B is an upright, and C an arm fixed to the central part thereof to extend at right angles therefrom. D is a brace fixed to the free end portion of the arm C and the top portion of the upright B, and D^2 is an extension adapted to support gate-operating mechanism. F is a brace fixed to the free end portion of the arm C and the lower portion of the upright B, and the parts thus joined together constitute a rigid and strong frame adapted to support and carry a gate when the frame is hinged to the post A to swing horizontally in the manner the arm of a crane is operated. By the integral extension D^2 of the brace D an arm is advantageously provided for supporting gate-latching and gate-swinging mechanism, because no additional bar or auxiliary frame is required for such purpose. The frame thus constructed is hinged to the post A by means of screw-bolts *h*, that are joined together by means of eyes or integral links *h'*, as shown in Fig. 2, or in any suitable way.

J is a gate that may vary in size and weight. It is detachably and adjustably fixed to the hinged gate-support or crane-arm by means of bolts *k*, passed through bolt-holes in the part C and bolt-holes in the upright at one end of the gate and another upright at the center of the gate, as shown in Fig. 1. By means of a plurality of bolt-holes in the gate it is obvious the gate may be raised or lowered relative to the hinged support and the ground for the purposes stated.

m is a spring-actuated latch pivotally connected with the lower corner portion of the free end of the gate by means of a fixed bearer *m'* to extend vertically through a fixed loom *m''*, fixed to the upper portion of the gate.

A^2 is a fixed gate-post at the free end of the gate, and *n* is a striker fixed to the post to engage the spring-actuated latch *m* when the gate is swung from either direction as required to retain the gate in a closed position. A lever *r* is pivoted to the end of the extension D^2 and connected direct with the top portion of the latch *m* by means of a wire *r'*, and *s* and *s'* are ropes connected with the other end of the lever and extended in opposite directions through bearings or over directing-pulleys fixed to posts A^2 and A^3 in such a manner that the ends of the ropes will be within reach of persons when the gate is to be opened or closed. Pulling the rope *s* when the gate is closed will actuate the lever *r* and by means of the wire *r'* disengage the latch *m* from the striker *n* and swing the gate open, and when the gate is open pulling on the other rope *s'* will swing the gate back into a closed and latched position.

By means of the bar C, extending at right angles from the central portion of the upright B and providing it with bolt-holes K at its end portions and corresponding bolt-holes in the uprights of the gate, and the braces D and F, fixed to the upright and the free end portion of the bar C, the gate can be advantageously fixed at its one end and center to be securely retained and carried by the hinged crane and also readily raised or lowered.

The latch being connected direct with the lever, it is obvious the latch can be opened and the gate can be swung open to the right or left by means of force applied to the ropes *s* and *s'*, as desired.

Having thus described the construction and

operation of my invention, its utility will be manifest to farmers and others familiar with the art to which it pertains, and what I claim as new, and desire to secure by Letters Patent therefor, is—

1. In a farm-gate, a support for carrying a swinging gate composed of an upright, an arm fixed to its central portion to extend at right angles, and provided with bolt-holes at its end portions, a brace fixed to the free end portion of the arm and the top portion of the upright and extended beyond the upright to support a lever; a lever pivoted on the top of the free end portion of said extension and the upright hinged to the fixed base or post, as shown and described for the purposes stated.

2. A farm-gate comprising a fixed post, a frame composed of an upright hinged to the post, a fixed arm extending at right angles from the central part of the upright, a brace fixed to the free end of said arm and the top portion of the upright and an integral extension of said brace for supporting a lever, a gate adjustably fixed to the said hinged frame, a lever pivoted to the said extension, a latch pivoted to the lower portion and free end of the gate, a wire connected direct with the top of the latch and the lever, and ropes connected with the other end of the lever and extended laterally over pulleys, all arranged and combined to operate in the manner set forth.

JAMES LEE GROUT.

Witnesses:
J. E. WHITMORE,
CHAS. DURST.