

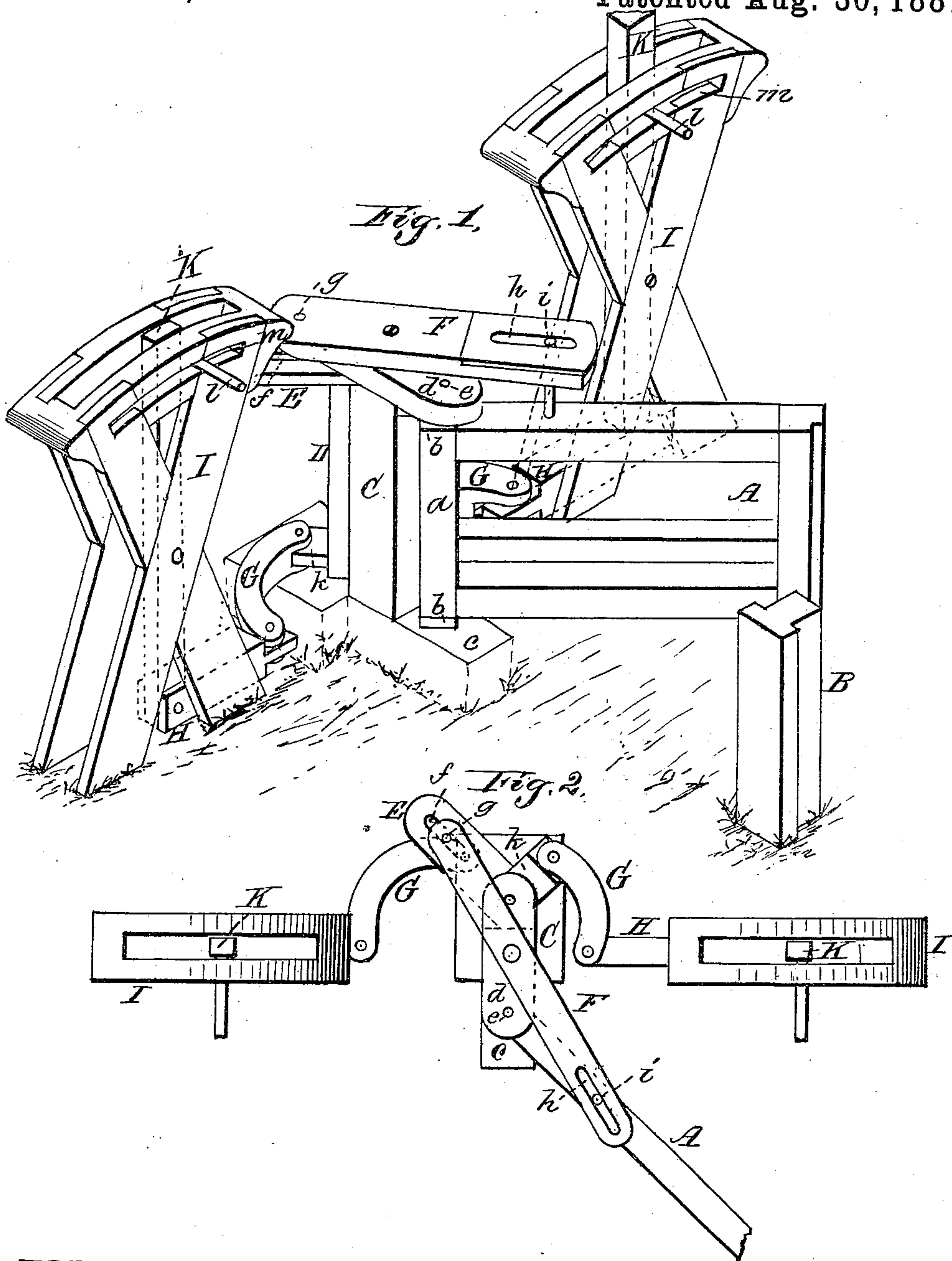
(No Model.)

J. A. WOLFRAM.

FARM GATE.

No. 246,357.

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Witnesses:
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UNITED STATES PATENT OFFICE.

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FARM-GATE.

SPECIFICATION forming part of Letters Patent No. 246,357, dated August 30, 1881.

Application filed June 18, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. WOLFRAM, a citizen of the United States, residing in the county of San Patricio and State of Texas, have invented certain new and useful Improvements in Farm-Gates; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a perspective view of my invention, and Fig. 2 is a top-plan view of the same, with a portion of the gate and outer gate-post removed.

The present invention has relation to that class of swinging farm-gates operated by an arrangement of levers upon both sides thereof, whereby the gate can be opened and closed by the driver or occupant of the vehicle without getting down from his seat.

The object of the invention is to provide a system of levers and connect them together in such manner with the gate as to insure their perfect and easy operation in opening and closing the gate, and also the special construction of the several parts, as hereinafter specified, rendering them strong and durable, with great leverage power, which is of indispensable value in this class of farm-gates. These objects I attain by the construction substantially as shown in the drawings and hereinafter described.

In the accompanying drawings, A represents the gate of the ordinary construction, its outer end closing against the usual post, B, let into the ground. The inner upright, *a*, which forms the end of the gate A, has secured to its upper and lower ends socket-plates *b*, of metal, cast with pins, the lower one resting in a socket in an offset or bed, *c*, firmly embedded in the ground. An inner or main post, C, projects from the bed *c*, to the top of which is a stationary arm, *d*, the upper pin, *e*, of the upright *a* entering said arm, which supports and retains the gate in a horizontal position, and admits of its swinging open or closed when required. To the opposite end of the stationary arm *d* is pivoted a post, D, having rigidly connected to its upper end, between it and said stationary arm, a plate, E, having an elongated slot, *f*, into which enters a short rod, *g*, pro-

jecting from the under side of a bar or lever, F. This bar or lever is pivoted to the stationary arm *d*, and has elongated slot *h*, into which projects a short rod, *i*, secured to the gate A.

Both the elongated slots *f* *h* may be protected from wear by cast-metal plates secured to the plate E and bar or lever F.

The post D is pivoted at its lower end to the bed *c*, and is formed or cast with horizontal plates *k*, which are disposed at right angles to each other. To these plates *k* are pivoted the inner ends of curved toggles G, the outer ends thereof being pivoted to the ends of horizontal arms H, which are guided in their outward movement by standard-frames I, located a suitable distance from the gate A, upon each side and at the rear or inner end thereof.

The outer ends of the arms *h* are pivoted to hand-levers K, which may project above the frames, for convenience of operating them. I prefer, however, that one only of the levers K project above the upper end of the frame, which I term the "main lever," for opening the gate, while the opposite lever may be provided with a suitable handle, *l*, projecting at right angles thereto, and passing out through a curved elongated slot, *m*, in the upper portion of the frame, by which arrangement the lever can be conveniently operated to close the gate. I have shown, however, both the frames I with the slots *m*, each lever being provided with handles, although I do not wish to be understood as confining myself thereto. These frames I retain the levers and also the arms in their proper relative position; also guide them in their movement, and prevent the levers from being pressed out laterally, which would tend to break the pivotal connections between the levers, arms H, and toggles G, by the strain brought upon them.

The toggles G are also an essential and important feature of my invention, as their curved form and manner of connecting them to the post D and to the arms H greatly lessens the extent of swing of the levers necessary to close and open the gate, which is of great convenience to the occupant of the vehicle or driver when he is passing through the gateway, as the greater the extent of movement or arc of circle through which the levers are moved the greater the awkwardness to successfully operate them.

The manner, also, of connecting the gate to the levers by the arrangement of devices consisting of the lever F and post D, with the plate E, the elongated slots and rods, further increases
 5 the easy and successful operation of opening and closing the gate, which, in addition to the toggles and their connections, gives great leverage power with little effort on the part of the person opening and closing the gate.

10 In some cases it is found necessary to vary the distance between the frames I and gate A, and in such case the levers K may be connected to the arms H by metal rods, any number of sections being used, according to the distance
 15 the frames are to be placed from the gate, said sections being kept in place by suitable stakes driven in the ground or in posts inserted in the ground even with the surface thereof. This, however, is considered as an obvious expedient, and does not affect the essential features
 20 of my invention.

An additional advantage of the frames I may be here mentioned—that of protecting the levers and arms from being interfered with by
 25 the wheels of the vehicle running against them.

If desired, the gate may be formed in two sections similar to a double gate, each swinging upon its own pivotal connection, thus enabling any one and every one, no matter in what
 30 direction traveling, to open and close the gate.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The pivoted gate A, rod *i*, pivoted lever F, having at one end an elongated slot, *h*, and
 35 at its opposite end a rod, *g*, in combination with the pivoted post D, having rigidly connected to its upper end a plate, E, with slot *f*, said post being connected to a suitable mechanism for operating it, substantially as and for
 40 the purpose specified.

2. The pivoted or swinging gate A, having rod *i*, the slotted lever F, carrying rod *g*, in combination with the pivoted post D, slotted
 45 plate E, and levers K, connected to said post by curved toggles G, substantially as and for the purpose set forth.

3. The standard-frames I, containing levers K, the arms H, toggles G, post D, and slotted
 50 plate E, in combination with the slotted lever F, swinging gate A, having connected thereto rod *i*, substantially as and for the purpose described.

In testimony that I claim the above I have hereunto subscribed my name in the presence
 55 of two witnesses.

JOHN ARNOLD WOLFRAM.

Witnesses:

JAMES C. FULTON,
 G. W. FULTON.