S. W. MOORE.

Gate.

No. 204,497. Patented June 4, 1878.

Fig. 1.

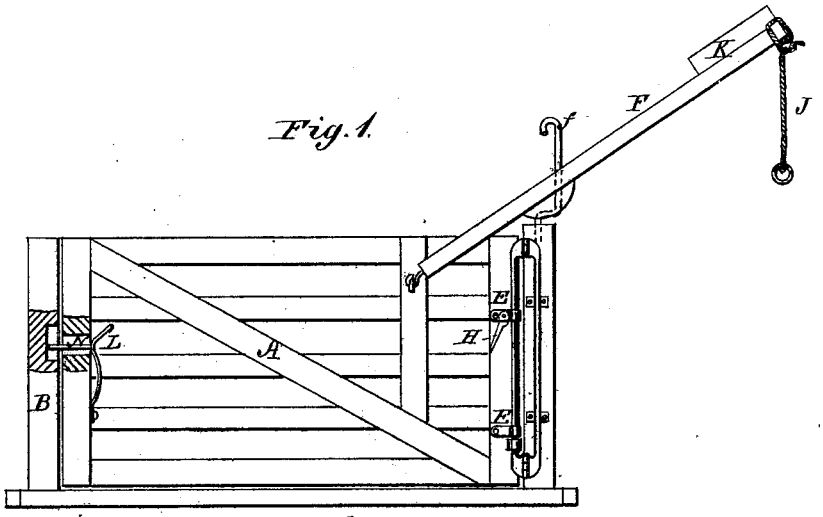


Fig. 2.

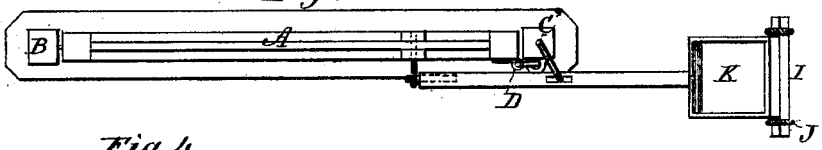


Fig. 4.

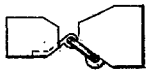


Fig. 3.

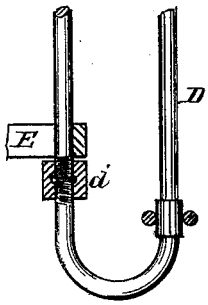
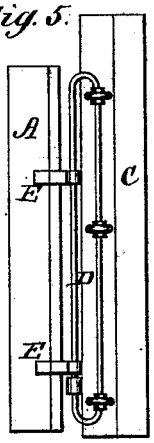


Fig. 5.



WITNESSES:

Solon C. Kemon

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UNITED STATES PATENT OFFICE.

STEPHEN W. MOORE, OF MOUNT ETNA, INDIANA.

IMPROVEMENT IN GATES.

Specification forming part of Letters Patent No. **204,497**, dated June 4, 1878; application filed December 31, 1877.

To all whom it may concern:

Be it known that I, STEPHEN WALL MOORE, M. D., of Mount Etna, in the county of Huntington and State of Indiana, have invented a new and useful Improvement in Gates, of which the following is a specification:

Figure 1 is a side elevation, and Fig. 2 a plan view, of my improved gate. Figs. 3, 4, 5 are detail views.

The invention relates to the construction of the pivot of the lever that operates the gate, the construction of the hinge of the gate, and the device for locking the gate in any vertical adjustment, as hereinafter described.

A represents the gate, about the construction of which there is nothing new. B is the front or catch post, and C is the rear or hinge post. D is the hinge, which, as shown in part of the figures, is made of a rod of iron or other metal, bent into link form, and with its ends meeting upon its forward side, a little above its lower band. The ends of the rod D have screw-threads cut upon them to fit into the screw-thread of the long nut *d'*. The screw-thread of one end of the rod D is made of the same length as the thread of the nut *d'*, or longer, so as to also receive a jam-nut, and the thread of the other end is made about half the said length, so as to stop the said nut with the said ends in its center.

The outer arm of the hinge D is secured to the post C by staples, or other suitable means, and is flattened to receive the said staples and prevent it from slipping through them. The forward arm of the hinge D is passed through eyes E, formed in or upon bolts, straps, or angle-plates, which are attached to the rear upright of the gate A.

The lower eye E upon the gate A, in its lowest position, rests upon the long nut *d'*, and, as the said gate A is moved up and down, the eyes E slide upon the forward arm of the hinge D.

F is a lever, which is pivoted on a bent arm, *f*, attached to said post, so that the lever is placed at one side of the plane of the gate. Its forward end is pivoted to said gate by a clevis. By this construction the gate A may be raised and lowered by operating the lever F, and may be locked in any position into which it may be adjusted by a cam-lever, H, which is pivoted to one of the hinge-eyes E in such a position as to bear against the front bar of the hinge D.

For convenience in operating the lever F when its rear end may be directly over a fence, a cross-bar, I, may be attached to it, to the ends of which, when the said rear end is high, cords J may be attached.

To the rear end of the lever F may also be attached a box, K, to receive stones or other weights, to wholly or partly balance the gate, and enable it to be more easily raised and lowered.

The link-hinge D may be made in two parts, hinged to each other at the centers of its bends, as shown in Fig. 1. This hinge permits the gate to open so that no part of the gate-stile or rear upright will be left projecting past the inner side of the gate-post C.

The two forms of hinge above described have this common characteristic, that they are of link form, and hence have curved ends. This form, besides giving greater strength, enables the hinge to be attached to the gate-post and to assume the position above indicated.

L is a spring having a pin or bolt attached, which constitutes the fastening or latch of the gate.

In case it be desired to have the gate A swing open in both directions, the forward side of the hinge-post C and the rear side of the rear upright of the gate A have their adjacent edges beveled, as shown in Figs 4 and 5, and the hinge D is attached to one of the bevels of the said post C.

I am aware of Patent No. 66,823, and claim nothing therein shown.

What I claim is—

1. The hinge having link-form, in combination with the gate and post, as shown and described.

2. The combination of the locking-cam, the link-hinge, and the adjustable gate, as shown and described.

3. The combination of the bent pivot-rod *f* and the lever, gate, and gate-post, as shown and described.

4. The link-hinge formed in two like parts, hinged together at top and bottom, as shown and described.

STEPHEN WALL MOORE, M. D.

Witnesses:
J. W. MILES,
CHAS. E. NEA.