

J. G. SHERMAN.

GATE.

No. 173,348.

Patented Feb. 8, 1876.

Fig. 1.

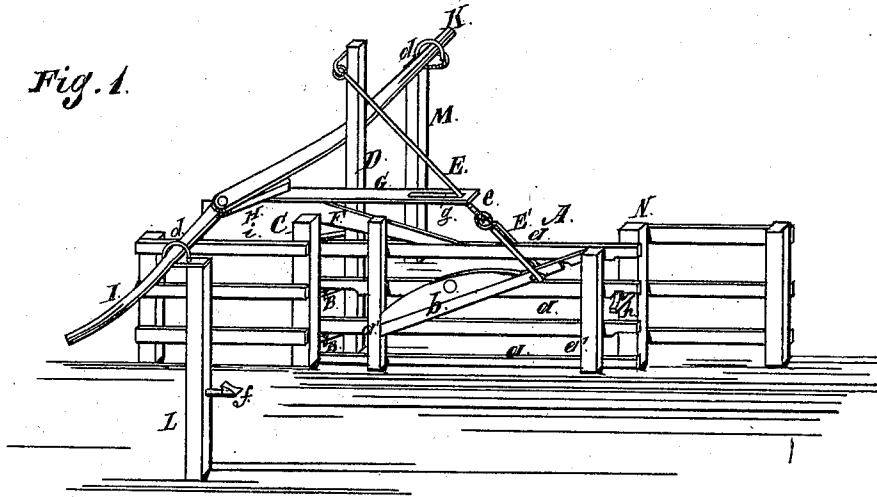
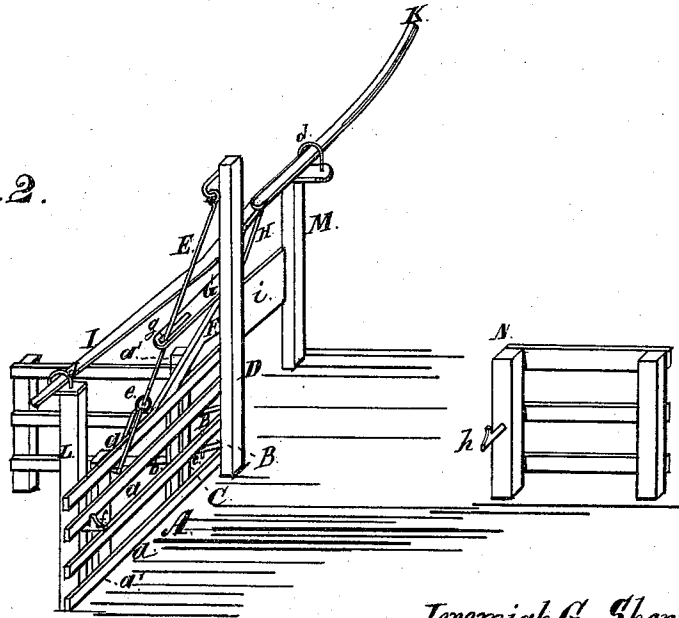


Fig. 2.



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UNITED STATES PATENT OFFICE.

JEREMIAH G. SHERMAN, OF McHENRY, ILLINOIS.

IMPROVEMENT IN GATES.

Specification forming part of Letters Patent No. **173,348**, dated February 8, 1876; application filed December 14, 1875.

To all whom it may concern:

Be it known that I, JEREMIAH G. SHERMAN, of McHenry, in the county of McHenry and State of Illinois, have invented a new and useful Improvement in Farm-Gates, which is fully described in the following specification, reference being had to the accompanying drawings, in which—

Figure 1 is a plan view of the gate when closed, and Fig. 2 a similar view of the gate when open.

The object of my invention is to make the gate adjustable in height, and easily opened and closed by a person on horseback or in a carriage.

The invention consists in hanging the gate upon adjustable supports, and also in an arrangement of arms and levers for opening and closing it, as will be hereinafter fully described.

In the drawings, A represents a gate of one panel, consisting of rails *a a*, fastened to upright posts *a'*, and braced by the inclined rail *b*. The rear end of the gate is supported upon short rails B, extending from fence-post C to the post D, the extreme ends of the rails of the gate resting upon the short rails B. A hole is bored through each of the short rails B, and a pin, *c*, is attached to one of the rails, *a*, which is inserted in the hole of one of the short rails B, and thus forms the pivot upon which the gate turns. To the upper end of the post D is loosely attached one end of a rod, E, which is attached at *e* to a wire loop, E', which passes around the upper rail of the gate underneath the brace *b*, which is notched at its upper end, for the purpose of receiving and holding the lower end of the loop. To the top rail of the gate is attached an arm, F, which extends upward and backward to the rear of the gate, and upon the top of this arm is fixed a strip, G, the front end of which is provided with a slot, *g*, through which the rod E passes. To the rear end of this strip is fastened a short arm, H, which projects outward and backward, as seen in Fig. 1. To the outer end of this short arm are pivoted two long rods or handles, I and K, which extend outward upon opposite sides of the gate, their outer ends being held loosely in staples *d*, sup-

ported upon the posts L and M. Upon the post L is a catch, *f*, which engages with one of the rails of the gate, and holds the latter in position when opened. Upon the fence-post N is a catch, *h*, which engages with one of the rails, and holds the gate securely when closed.

The rear end of the arm F, if desired, may be enlarged to form a wind-board, *i*, which will afford great assistance in opening and closing the gate in a high wind, as, on account of its being located in rear of the pivot of the gate, it will act as an equalizer in either opening or closing the gate against the wind.

To open the gate it is only necessary to push upon the rod I or pull upon the rod K. In either case the rod acts in the proper direction upon the outer end of the short arm H to turn the gate, and the forward end of the strip G, pressing upon the flexible connection E E', will at the same time raise the forward end of the gate, so that it will swing free from the catch *h*, and permit the gate to be opened.

In closing the gate the operation is the same, except that the force applied to the rod I or K must be reversed.

If it is desired to raise the gate so that it will swing above the snow in winter, it is only necessary to lift it up and disengage the pin *c* from the short rail in which it is supported, and insert it in the hole of the rail next above. At the same time the loop E' must be set up one notch on the arm *b*.

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

1. A gate supported at its inner end by a pivot, and at its outer end by a flexible rod, E E', attached to the auxiliary post D, and to the gate near its outer end, substantially as and for the purpose set forth.

2. The combination of the gate A, pivoted at its rear end, as described, the notched brace *b*, and a flexible connection, E E', attached at its upper end to a suitable post, D, for the purpose of supporting and adjusting the height of the gate, substantially as described.

3. The combination, substantially as described, of the slotted strip G, rigidly at-

tached to the gate, flexible rod E E', post D, and gate A, arranged and operating as set forth.

4. The combination, substantially as described, of the arm H, rigidly connected to the gate, sliding rods I K, and supporting-posts L M, provided with staples *d*.

5. The combination, substantially as described, of the rods I K, short arm H, slotted

strip G, and flexible rod E E', for the purpose set forth.

6. The combination, substantially as described, of the wind-board F i, short arm H, sliding rods I K, and gate A.

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Witnesses:

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wds.