T. McC. WILSON.

Farm-Gate.

No. 202,973. Patented April 30, 1878.

Fig. 1.

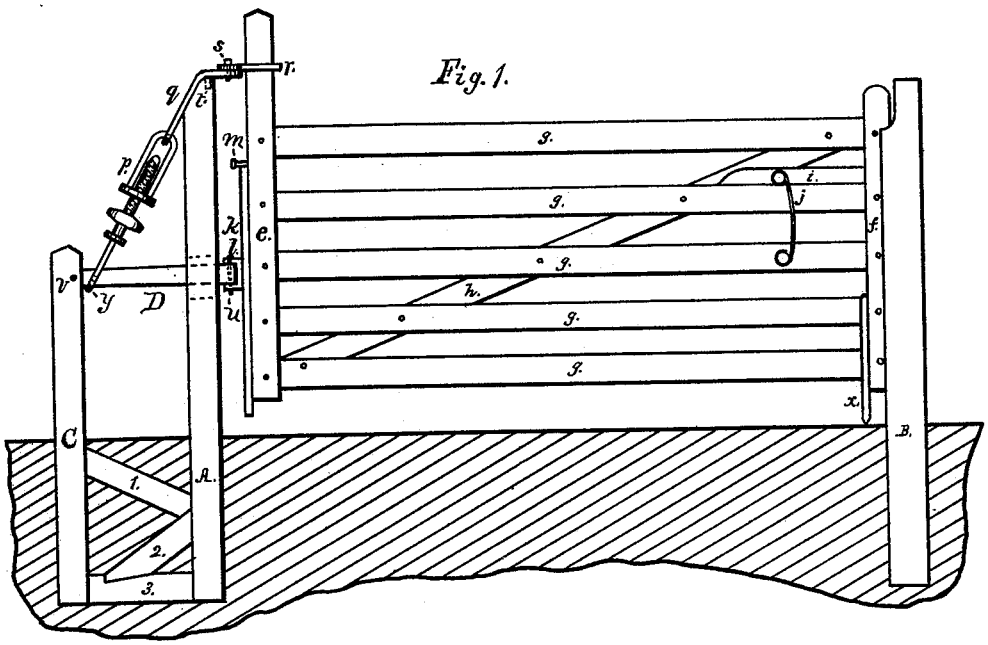
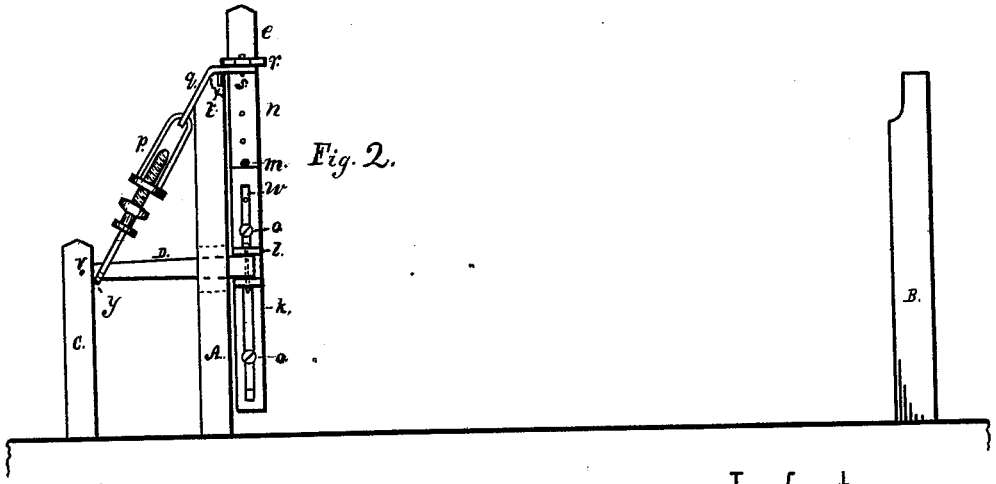


Fig. 2.



Witnesses

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THOMAS McC. WILSON, OF VENICE, PENNSYLVANIA.

IMPROVEMENT IN FARM-GATES.

Specification forming part of Letters Patent No. **202,973**, dated April 30, 1878; application filed January 10, 1878.

To all whom it may concern:

Be it known that I, THOMAS MCCORKLE WILSON, of Venice, in the county of Washington and State of Pennsylvania, have invented a new and useful Improvement in Farm-Gates; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, forming part of the same.

This invention relates to farm-gates, some of which have been adapted, through the medium of a tightening-screw, to be raised from a sagging position, and others, by means of various devices, to be raised sufficiently high to admit of the passage of small stock thereunder.

The improvement consists, first, in a tightening-screw, suitably connected with, and adapted to exert a tightening force upon, the upper hinge of the gate, in combination with and adapted to exert a lifting power upon the strap of the lower hinge, said strap being pivoted to a stay-post, and operating as a lever when the screw is tightened up.

It also consists in the construction and combination of certain parts of my improved gate, as will be hereinafter described and claimed.

In the accompanying drawings, forming part of this specification, Figure 1 is a front elevation of the gate, representing the manner of bracing the hinge and stay-post; and Fig. 2 represents the gate open, showing the end of the gate with relation to the hinges.

Referring to the drawings, A represents the stay-post, the lower end of which is sunk in the ground about three feet, and braced through the medium of the timbers 1 2 3 and the stay-post C. In the hinge-post A is a slot, through which passes a part of a hinge, D, which, at *v*, is pivoted in the stay-post C. To the outer end of the part or strap D of the hinge is attached, as shown in Fig. 1, links *p*, provided with a swivel and screw, for the purpose of adjusting their length, which links form the adjustable part of the upper hinge, and extend its length, so as to obtain an attachment at the proper point. To the upper end of the links *p* is attached the middle part of the upper hinge *q*, which passes over the top of the hinge-post A, and to its upper end, at *s*, is pivoted the part *r* of the upper hinge, having an opening in it corresponding to the form of the stile *e* of the gate, so that the stile *e* may move up and down in said part *r*. On the inside of the part *q* is a pivot, *t*, which enters an opening in the top of the hinge-post A; and when the upper hinge is shortened, by means of the screw, this pivot engages the hinge-post A, and draws it toward the stay-post C. To the strap D is fitted a part of a hinge, *l*, having a flat bar, *k*, provided with a slot, *w*, in which are guides *o*, secured to the stile *e* of the gate, and the two parts of the hinge D and *l k w* are held in juxtaposition by a pintle, *u*. The stile *e* is provided with a series of openings, *n*, for a pin, *m*, against which the upper end of the slotted bar *k w* of the hinge rests, so that the end of the gate next to the hinge-post A is supported by the pin *m*, resting on the slotted bar *k w* of the lower hinge.

Now, by shortening the upper hinge by means of the screw, the part of a hinge, D, will rise to the upper end of the slot in the hinge-post, bringing up the gate with it, thus showing that the lateral or side draft of the gate on the hinge-post A is transmitted to the stay-post C. Any settling down of the latch end of the gate may be remedied through the medium of the upper hinge, through which the sagging weight of the gate is transmitted to the part of a hinge, D, at *y*, and through D to the stay-post C. The gate is of ordinary construction, composed of the stiles *e f*, bars *g*, and brace *h*. It is provided with a latch, *i*, held by spring *j* and holding-bolt *x*.

The advantages of my improvement in farm-gates will be apparent to farmers. By the peculiar construction of the several parts connected with the hinging of the gate, and its adjustability with relation to the surface over which it has to travel in opening and closing it, all the difficulties attendant upon the opening and closing of gates in cold and snowy weather, and the varying position of the gate-post, caused by the action of the frost and the weight of the gate, are provided against.

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

1. In a farm-gate adapted to be raised from a sagging position, the tightening-screw, suit-

ably connected with and adapted to exert a tightening force upon the upper hinge of the gate, in combination with and adapted to exert a lifting power upon the strap of the lower hinge, said strap being pivoted to a stay-post, and operating as a lever when the screw is tightened up, substantially in the manner as herein shown and described, and for the purposes specified.

2. The herein-described hinge, having a strap, D, pivoted to the rear stay-post, in combination with the slotted bar *k* and gate-stile *e*, with guides *o*, adapted to work within the slot, and also having holes *n* for a stop-pin, substantially as shown and described, and for the purposes set forth.

THOMAS McCORKLE WILSON.

Witnesses:

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