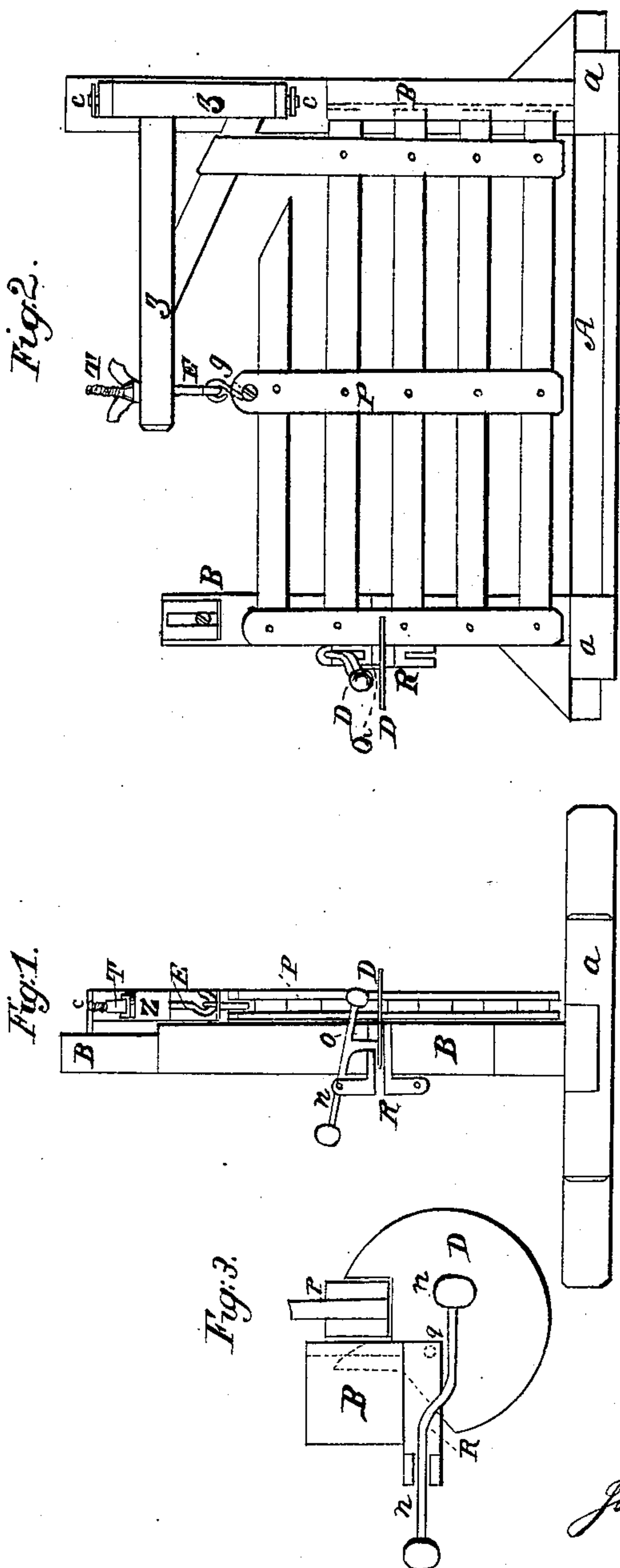


J. CURTIS.

Farm Gate.

No. 77,174.

Patented April 28, 1868.



Witnesses.

Jesse E. Phelps.
W. Durrie.

Inventor.

John Curtis per
G. B. Jowles.

United States Patent Office.

JOHN CURTIS, OF TRURO, ILLINOIS.

Letters Patent No. 77,174, dated April 28, 1868.

IMPROVEMENT IN FARM-GATES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOHN CURTIS, of Truro, in the county of Knox, and State of Illinois, 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 of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is an end view.

Figure 2 is a side elevation.

Figure 3 is a top view of gate-fastener.

Like letters in the different figures of the drawings indicate like parts.

My improvement relates to a novel mode of constructing and hanging gates, by which they can be opened or unswung with greater ease and facility than has hitherto been obtained in the ordinary mode of their construction.

Its nature consists in the combination of the sills *a a*, the posts or standards *B B*, the crane *z*, the gate-door *P*, and the automatic latch.

To enable any one skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A a a represent a cross-shaped sill, resting upon the ground, into which the posts or uprights *B B* are fitted, and said posts may project through said sill and into the earth a suitable distance, when requisite, to impart additional strength to the structure.

To the post *B* a crane, *z*, is attached or swung, and hinged by the angular pins *c*.

The gate is swung or attached to the rod *E* at the point of the pivotal equipoise of the same. The bar *E* projects through a perforation in the arm of said crane, at said pivotal point, which bar is so curved as to form a connecting-link with the link *g*, attached to the gate.

The apex of the bar *E* is screw-threaded, and by means of the nut *T*, attached thereto, which nut has suitable flaring projections, the gate can be elevated or lowered, and can be adjusted to any required height, the better to facilitate the closing thereof during or immediately subsequent to a snow-storm, and can not only be raised or lowered at pleasure, but can be thrown out of gear should drifted snow make it desirable, or easily removed and readjusted, or transported to a distance, should economy or convenience require it.

D represents a metallic plate, nearly circular in shape, but having a groove or mouth for the reception of the gate, which metallic plate is attached by the pin *q*, fig. 3, to the slotted angular bar *R*, and works in said slot horizontally upon said pin or hinge, the slot being the guide thereof.

The angular bar *R* is firmly attached to the post or upright, *B*, and the metallic plate works in the slot of said bar.

At the point of the said angular bar is pivoted the lever *n*, having the projection *O*, which constantly, because being attached to or a part of the longer arm of the lever, rests upon the metallic plate *D*. In the said plate there is a perforation, at *o*.

The closing of the gate, by impinging against the metallic plate, revolves it, and thus brings the hole or perforation in the latter immediately under the projection *O*, which then descending, fastens and secures it until the arm of the lever *h* is again raised, and the gate thus opened.

The great necessity of a gate which can be adjusted to suit the requirements of that large section of country which, for a great portion of the year, is subject to the inconveniences arising from frequently-recurring snow-drifts, being obvious to the inventor, has induced him to endeavor to present to the community a device comprising within itself all the practical advantages to be attained in the construction of such a device.

And it will readily be perceived that the combination of the hinge or link *g* with the crane *z*, permits the easy elevation or removal of the gate, notwithstanding the greatest depth of a snow-drift, and that, by means

of the lever *h*, the traveller can open, drive through, and close the gate behind him, without being subject to those annoyances or that detention which have hitherto so frequently prevailed.

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

1. The combination of the gate *P*, with the crane *z*, link or hinge *g*, and screw-rod *E*, substantially as, in the manner, and for the purpose as herein shown and described.

2. The construction and arrangement of the slotted angular bar *R*, metallic plate *D*, and lever *h*, when used in combination with a farm-gate, and operating substantially in the manner and for the purpose as herein set forth.

JOHN CURTIS.

Witnesses:

P. B. CURTIS,
RICHARD WELCH.