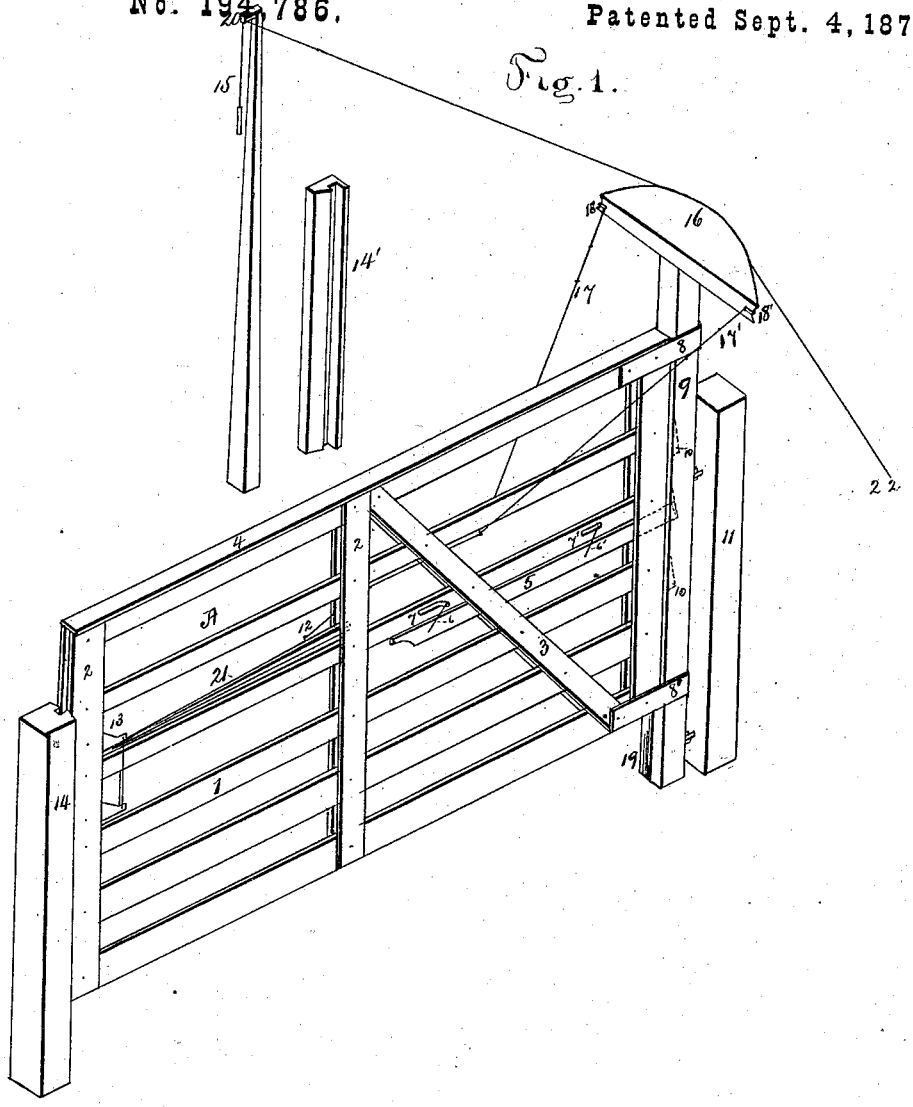
2 Sheets—Sheet 1.

K. E. RUDD.

GATES.

No. 194,786. Patented Sept. 4, 1877.

Fig. 1.



Attest:

Donn A. Garwood.

Stephen J. Harrington

Inventor:

Karl E. Rudd.

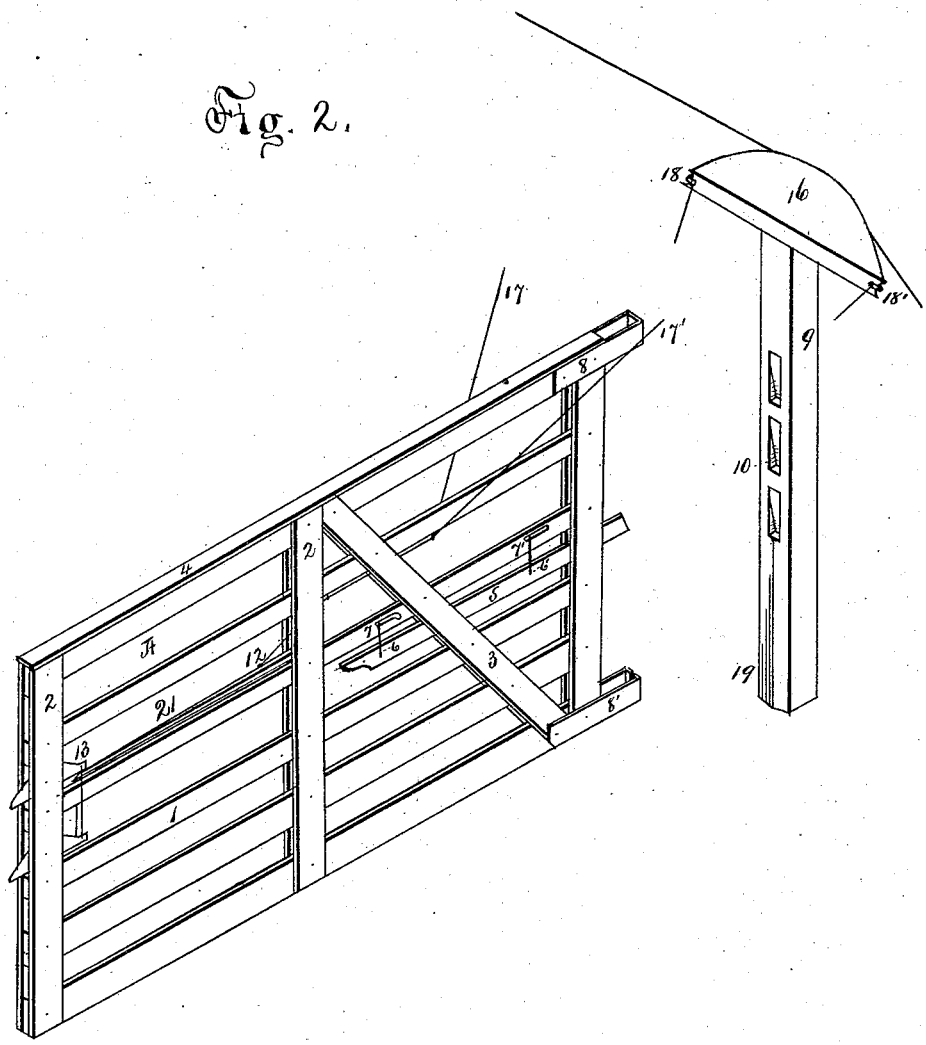
2 Sheets—Sheet 2.

K. E. RUDD.

GATES.

No. 194,786. Patented Sept. 4, 1877.

Fig. 2.



Attest:

Donn A. Garwood

Stephen F. Harrington

Inventor:

Karl E. Rudd.

UNITED STATES PATENT OFFICE.

KARL E. RUDD, OF CASSOPOLIS, MICHIGAN.

IMPROVEMENT IN GATES.

Specification forming part of Letters Patent No. **194,786**, dated September 4, 1877; application filed July 10, 1877.

To all whom it may concern:

Be it known that I, KARL E. RUDD, of the village of Cassopolis, in the county of Cass and State of Michigan, have invented certain new and useful Improvements in Gates, which improvements are fully set forth in the following specification and accompanying drawings.

The object of my invention is to furnish a simple means by which the gate may be opened and closed from a wagon or other vehicle, to allow the passage of the same, and to raise and lower it upon a swinging supporting-post, so that the gate, in swinging, may be cleared of contact with a body of snow or other impeding matter. By raising the gate any suitable distance while closed, room is afforded for hogs, sheep, and small animals to pass out and in, while cattle are prevented from passing.

Referring to the drawings, the gate A may be of any desired style or construction. In order to give greater strength to the same I make it with the ordinary longitudinal bars 1 having vertical end and center supports 2 and rear half-diagonal braces 3. 4 is a supplemental strengthening-bar along the top of the gate. 9 is a swinging supporting-post, secured to the gate at the top by the single metallic clasp 8, and at the bottom by the sliding clasps 8′. 5 is a sliding bar, hung loosely by the bent iron rods 6 6′. 7 7′ are slots through the bar, to allow the upper end of the iron hooks 6 6′ to move back as the slide 5 comes in contact with the bar to which it is attached. 10 are ratchet-mortises in the swinging post 9, in which rests the end of the slide 5 to hold the gate at any required height. The slot 7 is cut with a depression or notch at the end, in which the iron hook 6 drops as it passes back when the front end of the slide 5 is raised, and so held firmly in place. The post 9 swings upon the main supporting-post 11 by the ordinary hook and eye or other suitable hinge. 16 is a segment of a circle with grooved perimeter, and attached to the top of the swinging post 9. 17 17′ are wires passing from 18 18′ to 21, which is a lever of the third class, used to raise the latch 13. The swinging post 9 is beveled from the center of the front side at 19, and the post is thus easily given a slight twisting motion sufficient to raise the lever 21 when the cord is pulled at 15 or 22.

It will be seen by the foregoing that the gate may be opened by drawing the cord at 22, and closed by drawing at 15, and the reverse.

When the gate is raised the slide 5 rests in one of the ratchet-mortises 10, and thus holds the gate at any desired height.

The gate may be lowered by raising the hook 6 from the depression in the slot 7 and drawing the slide 5.

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

1. The slide 5, hung by iron hooks 6 6′ in slots 7 7′, and resting in ratchet-mortise in swinging post 9.

2. The combination of latch 13, lever 21, and connecting-wires 17 17′, substantially as described, and for the purposes set forth.

KARL E. RUDD.

Witnesses:
STEPHEN S. HARRINGTON,
GRENVILLE L. SMITH.