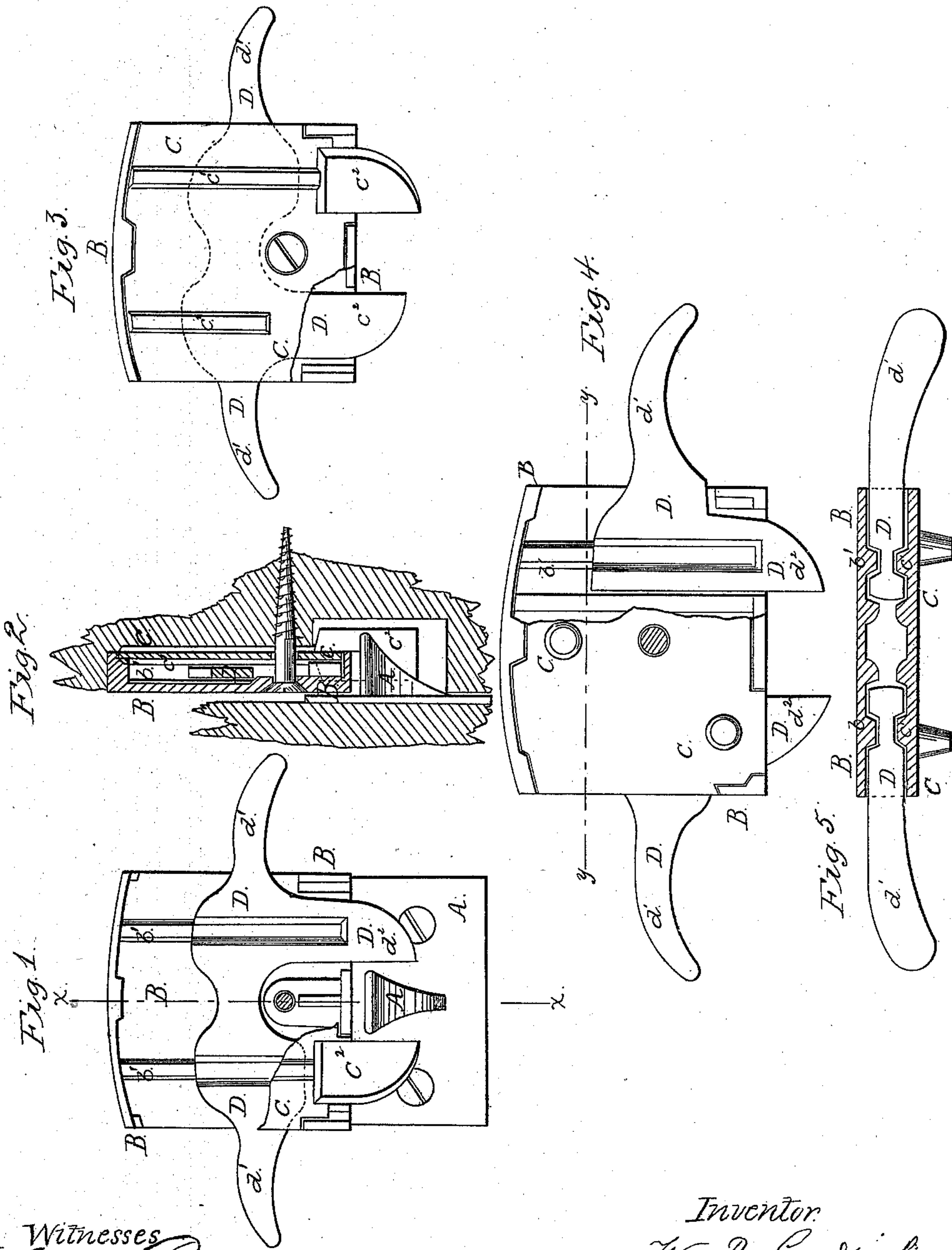


W. R. Goodrich.

Gate Latch.

N<sup>o</sup> 104,447.

Patented Jun. 21, 1870.



Witnesses  
Chas. Nida  
Jno. F. Brooks

Inventor  
W. R. Goodrich.  
per *Wm. M. M.*  
Attorney's



# United States Patent Office.

WILLIAM R. GOODRICH, OF WHITESTOWN, NEW YORK.

Letters Patent No. 104,447, dated June 21, 1870.

## IMPROVEMENT IN LATCHES FOR 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, WILLIAM R. GOODRICH, of Whitestown, in the county of Oneida and State of New York, have invented a new and useful Improvement in Gate-Latches; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a side view of my improved latch, part of the inner plate being broken away.

Figure 2 is a vertical section of the same, taken through the line *xx*, fig. 1.

Figure 3 is a side view of the same, showing the latch and inner plate reversed.

Figure 4 is a side view of a modified form of the same, part of the inner plate being broken away.

Figure 5 is a detail sectional view of the same, taken through the line *yy*, fig. 4.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved drop-latch for gates, which shall be simple in construction, convenient in use, and effective in operation; and

It consists in certain novel features of construction hereinafter specified.

A represents the catch, which is securely attached to the front gate-post.

B is the outer, and

C is the inner plate of the latch.

The outer plate B is made with flanges at its upper and lower edges, to receive and support the inner plate C.

The outer plate B is formed with two ribs or tongues *b'* upon its inner surface, and the inner plate C is formed with two vertical tongues or ribs, *c'*, upon its inner surface, directly opposite the ribs *b'* of the outer plate B.

D is the latch, which is formed with the thumb-piece, *d'*, projecting out between the side edges of the plates A and B.

The latch D is formed with two vertical grooves upon each of its sides, which fit upon the ribs or tongues *b'* and *c'* of the plates B and C, so as to compel the latch D to move up and down perpendicularly.

The lower end or catch *d'* of the latch D projects through a hole in the bottom flange of the plate B, and its outer corner is beveled off, so that, as the gate swings shut, the latch D may be raised automatically by striking against the catch A attached to the gate-post, and may drop by its own weight to fasten the gate.

*c'* is a stationary catch or stop cast upon the lower edge of the plate C, and projecting through a hole in the bottom flange of the plate B.

The stop *c'* is made thick, so that, while its one side projects into the hole in the bottom flange of the plate B, its other side may project into a recess in the gate-bar, to assist in supporting the latch against the shock of stopping the gate.

The inner plate C is formed with ribs or tongues *c'* upon both of its sides, so that, by reversing the positions of the plate C and latch D, the latch may be adjusted for a gate swinging in either direction.

In the case of gates swinging in both directions, two independent drop-latches, D, may be used, moving up and down upon the ribs or tongues *b'* *c'*, and each being provided with a thumb-piece *d'*. In this case the plate C need have ribs or tongues *c'* formed only upon one side, and the latch may be supported against the shock of stopping the gate by projections cast upon said plate C and entering recesses in the gate-bar.

I do not desire to be understood to claim broadly the combination of latches D, and outer and inner plates B C; but

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

1. A gate-fastening, formed of the latches D D, grooved as shown, and the outer and inner plates B C, having ribs *b'* *c'* *c'*, respectively, thereon, each constructed and arranged with respect to the others, as shown and described.

2. Forming the plate C, when used with a single drop-latch D, with ribs *c'* upon both sides, and with a stop, *c'*, substantially as herein shown and described and for the purpose set forth.

W. R. GOODRICH.

Witnesses:

GEO. A. KINCAID,  
DEXTER GILLMORE.