

W. Broomhall,

Gate Latch.

N<sup>o</sup> 51,417.

Patented Dec. 12, 1865.

Fig. 1.

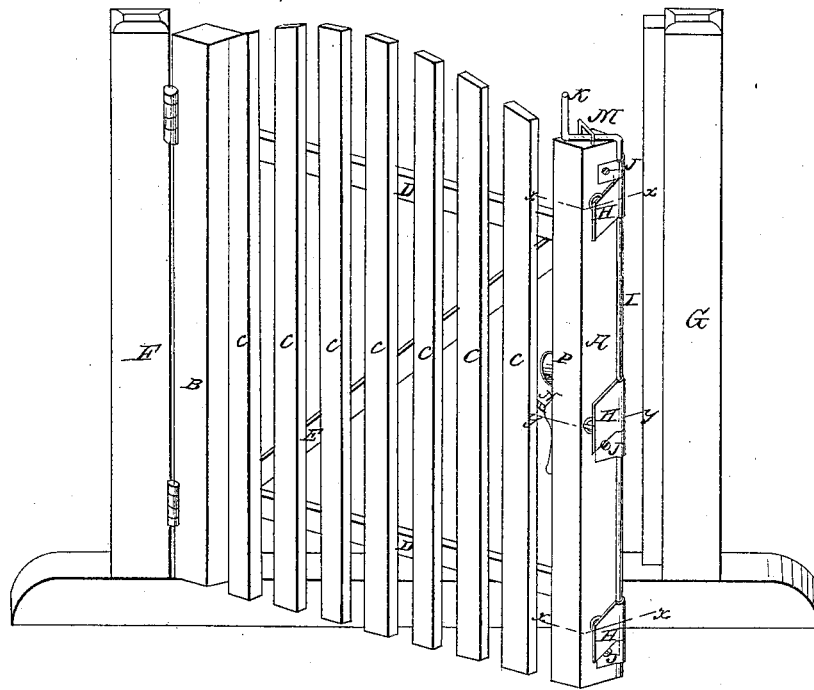


Fig. 2.

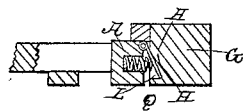
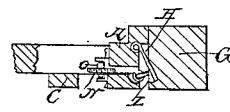


Fig. 3.



Witnesses:

W. F. Hall.  
J. L. Owen.

Inventor:

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# UNITED STATES PATENT OFFICE.

WEBB BROOMHALL, OF CIRCLEVILLE, OHIO.

## IMPROVEMENT IN GATE-FASTENINGS.

Specification forming part of Letters Patent No. 51,417, dated December 12, 1865.

*To all whom it may concern:*

Be it known that I, WEBB BROOMHALL, of Circleville, in the county of Pickaway and State of Ohio, have made new and useful Improvements in Fastenings for Gates; and I do hereby declare the following to be a full, clear, and exact description of the nature, construction, and operation of the same, sufficient to enable one skilled in the art to construct and use the same, reference being had to the accompanying drawings, which are made part of this specification, and in which—

Figure 1 is a perspective view of the same. Fig. 2 is a section on the line *x x*, Fig. 1. Fig. 3 is a section on the line *y y*, Fig. 1.

The improvement consists of a spring-fastening, which is attached by a vertical axis to that face of the stile of the gate which is adjacent to the gate-post, closing against the said stile as the gate is pressed shut, and then expanding into a rabbet in the post to retain the gate in a closed condition.

A B are the stiles of the gate; C, the slats; D, the cross-pieces; E, the brace; F, the post to which the gate is hinged, and G the post against which it shuts.

The fastening consists of one or more pallets or catch-plates, H, on a rod or axis, I, which is journaled in eyes or straps J to that face of the stile A which is presented to the gate-post G. This axis is bent over the top of the gate-stile, and again assuming the vertical at K, forms a handle by which the axis of the latch is rotated, releasing the catch-

plates H from their engagement with the rabbet L in the post. The staple M restrains the motion of the handle within certain limits, though the range of motion of the catch-plates is directly controlled in one direction by contact with the stile of the gate, and in the other by the means of the bolt N, Fig. 3, whose nut O in the handle P is capable of being adjusted so as to allow the catch-plate the required motion to occupy the depth of the rabbet in the post.

One or more of the catch-plates has a spring, Q, Fig. 2, beneath it, so as to give the catch-plates a determination outwardly to maintain them within the rabbet when the gate is closed, and to spring them into it after the plates have been pressed against or toward the stile A as the gate is being closed.

The pressure of the catches against the post has a tendency to prevent the sagging of the gate.

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

The catch-plates attached to the vertical axis, adjusted by the bolt, operated by the spring, and engaging in the rabbet of the post, substantially as described and represented.

WEBB BROOMHALL.

Witnesses:

JOHN ALEXANDER,  
JASON CASE.