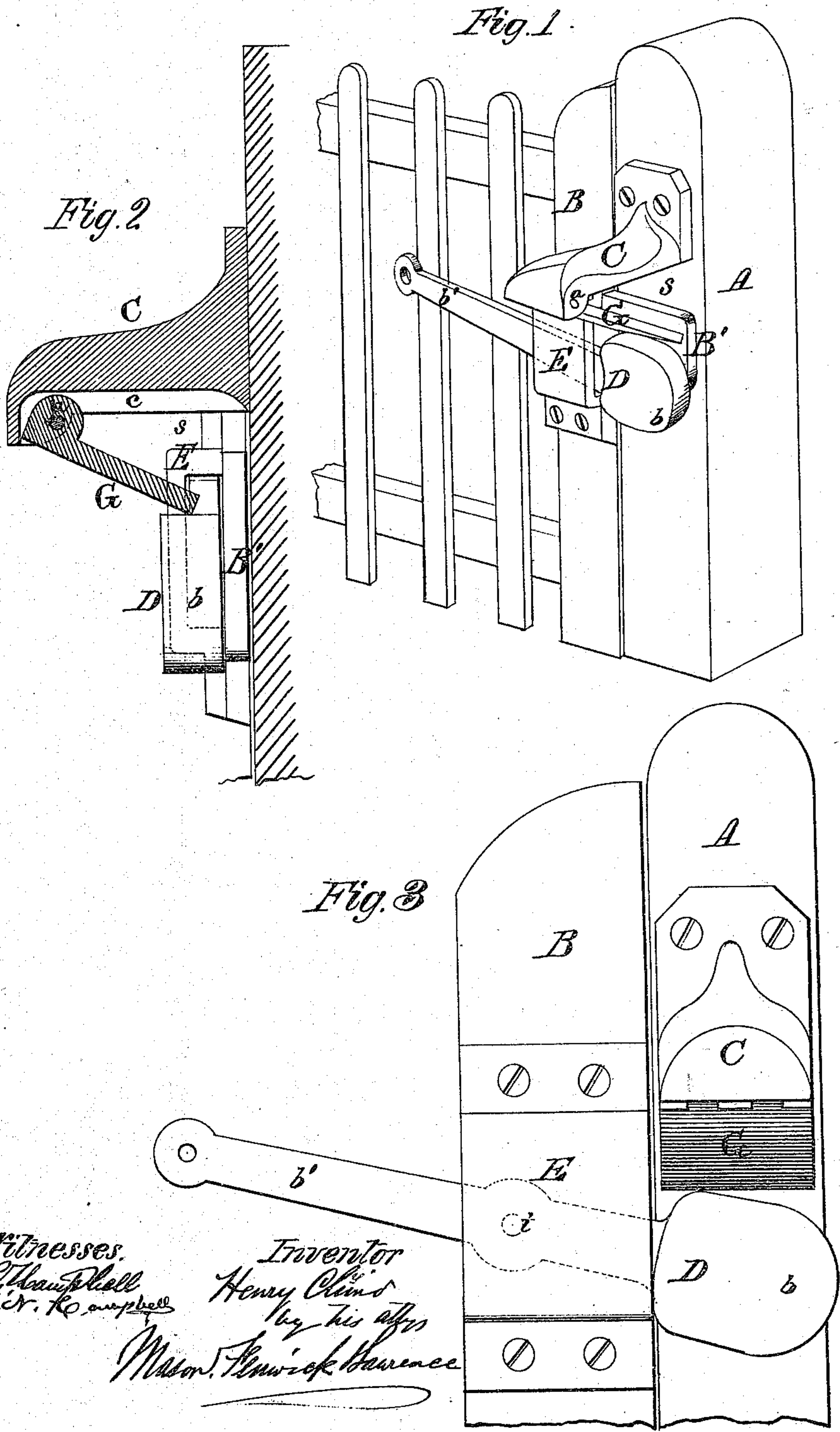


*H. Clymo,*  
*Gate Latch.*

*No. 103/43.*

*Patented May 17. 1870.*



*Witnesses.*  
*W. H. Russell*  
*J. R. Campbell*

*Inventor*  
*Henry Clymo*  
*By his atty*  
*Mason Hewitt Lawrence*



# United States Patent Office.

HENRY CLYMO, OF GALENA, ILLINOIS.

Letters Patent No. 103,143, dated May 17, 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, HENRY CLYMO, of Galena, in the county of Jo Daviess and State of Illinois, have invented a new and improved Gate-Latch; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings making part of this specification, in which—

Figure 1 is a perspective view of the improved gate-latch applied to a gate and gate-post.

Figure 2 is a sectional view through the bracket and catch, and an end view of the loaded lever and tongue on the gate.

Figure 3 is a front view of the device.

Similar letters of reference indicate corresponding parts in the several figures.

This invention consists of a gate-latch, combining in its construction the following elements, to wit: A vibrating, gravitating catching-tongue, which is pivoted to a fixed bracket; a loaded lever, which is pivoted to the gate, for lifting the said catching-tongue, and a tongue which is applied to the gate, so as to be caught by said catching-tongue, all as will be hereinafter explained.

To enable others skilled in the art to understand my invention, I will describe its construction and operation.

A is a gate-post, and

B, a horizontally-swinging gate.

E is a broad staple, which is secured properly to the gate B, and through which a lever, D, is passed, that is pivoted at *i*, and loaded at *b*.

The long arm *b'* of this lever is arranged in a position that will allow it to be conveniently grasped from either side of the gate.

The horizontal tongue *B'* is secured rigidly to the gate, so as to extend out therefrom, and, when the gate is shut, lie beneath a bracket, C, which is secured to the gate-post A, as shown in figs. 1, 2, and 3.

Between the upper edge of said tongue *B'* and the bottom of the bracket C is a space, *s*, of sufficient depth to allow the gate to be opened when the free end of a catch, G, is raised, by means of the loaded lever D.

The bracket C is a rectangular piece, secured rigidly to the gate-post, and extending out perpendicularly therefrom.

Its bottom surface presents a concavity, *c*, and to

its outer end a flat catching-tongue, G, is pivoted by a horizontal pin, *a*.

The free end of this catching-tongue rests upon the loaded end *b* of the lever D, when the gate is shut, and in this condition of things the said catch G prevents the gate from being opened.

To open the gate, the free end of the catch G is first raised by means of lever D, until the tongue *B'* will pass beneath this catch.

By loading the shortest arm of lever D, this end will of itself assume a position which will allow the free end of the catch G to drop and fasten the gate, when the latter is shut.

This lever D serves not only as a means for lifting the free end of the catch, to open the gate, but it also serves as a support for the free end of said catch, when the gate is fastened.

The bracket C serves two purposes, to wit: It is a support for the outer end of the catch G, and it is a cover for this catch, to prevent the accumulation above it of snow.

This bracket C is concave on its bottom, so that, should a foreign substance find lodgment in the catch, it will be received into this concavity, and not prevent the catch from being raised.

The tongue *B'* serves, in conjunction with the catch G, to fasten the gate, and also as a stop for the gate, when it is brought against the post A in position to be fastened.

I am aware that gravitating catches and latches have been used for gates and other purposes long prior to the device herein described, and, therefore, I make no claim, broadly, to self-fastening gravitating catches.

Having described my invention,

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

1. The combination of the vertically-vibrating gravitating catch G, applied to bracket C, a loaded lever, D, pivoted to the gate, and the horizontally-swinging tongue *B'*, applied to the gate, said parts being arranged to operate substantially as described.

2. The construction of the fixed bracket C, with a concavity, *c*, in its bottom surface, in combination with the vertically-vibrating catch G, substantially as described.

Witnesses :

W. R. HOLDER,  
W. M. DAVIS.

HENRY CLYMO.