(No Model.)

W. L. STOVALL.

GATE LATCH.

No. 325,577. Patented Sept. 1, 1885.

Fig. 1.

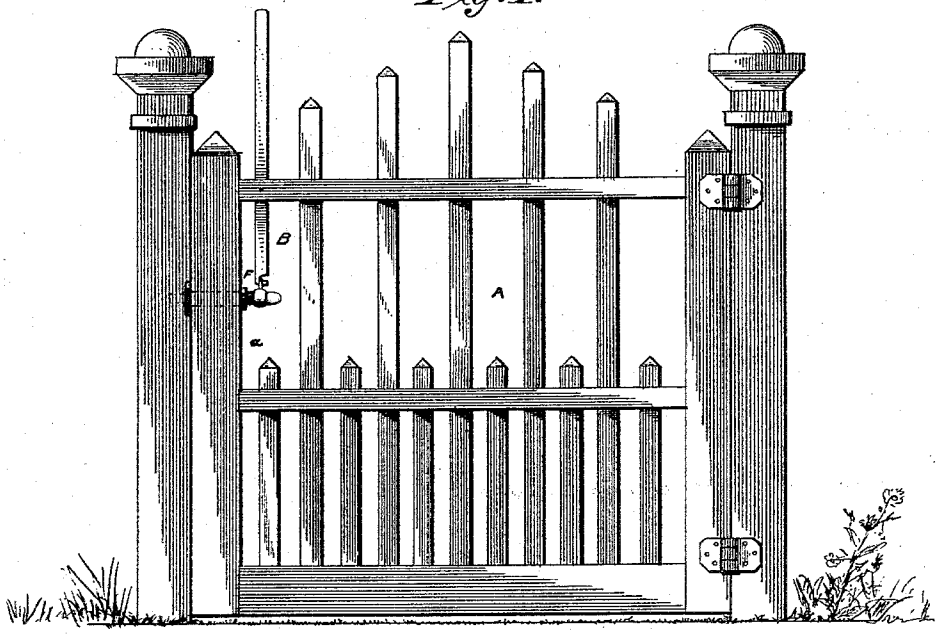


Fig. 2.

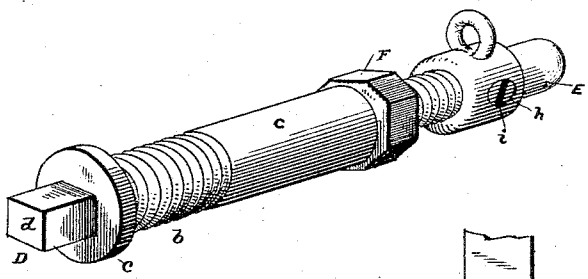
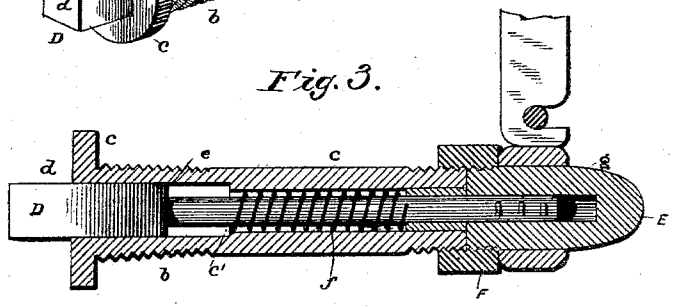


Fig. 3.



WITNESSES

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WASHINGTON L. STOVALL, OF WINONA, MISSISSIPPI.

GATE-LATCH.

SPECIFICATION forming part of Letters Patent No. 325,577, dated September 1, 1885.

Application filed January 30, 1885. (No model.)

To all whom it may concern:

Be it known that I, WASHINGTON L. STOVALL, a citizen of the United States, residing at Winona, in the county of Montgomery and State of Mississippi, have invented a new and useful Improvement in Gate-Latches, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to gate-latches; and it has for its object to improve the details of construction of the latch for which Letters Patent No. 290,717 were granted me December 25, 1883.

With these ends in view the invention consists in the improved construction and detailed arrangement of parts hereinafter fully described, and pointed out in the claims.

In the drawings, Figure 1 is a side elevation view of a gate, showing my improved latch applied thereto. Fig. 2 is a detail view in perspective of the latch detached, and Fig. 3 is a longitudinal vertical section.

In the accompanying drawings, in which like letters of reference indicate corresponding parts in all the figures, A represents the gate hinged to a post or upright, as usual.

B represents the latch, which is located in an opening formed in the upright or posts *a* of the gate A.

C represents a cylindrical casing having exterior screw-threads, *b*, by which it can be secured in the said hole or opening in the forward post of the gate, said casing being also provided with an annular flange, *c*, which fits in a mortise in the gate surrounding said opening. (Not shown.) The casing C is formed with a longitudinal opening or passage, which is preferably square in cross-section at its flanged end, and is provided with an interior shoulder, *c'*, and said casing or cylinder is also exteriorly threaded at its other end.

D represents the bolt, which is preferably square in cross-section at its outer end, *d*, to correspond to the square opening in the end of the casing C, and is reduced to form a shoulder, *e*, said reduced portion of the bolt being preferably cylindrical in cross-section.

Upon the reduced portion of the bar D is mounted a spiral spring, *f*, which bears against the shoulder on said bolt at one end and against the shoulder on the inner side of the casing at its other end. The said reduced end of the bolt extends beyond the end of the casing, and is provided with a series of ridges or projections, *g*.

E represents a sleeve adapted to receive the end of the bar D, said sleeve or cap having a screw-threaded opening, *h*, in which is seated a set-screw, *i*, adapted to bite the end of the bar D and hold the sleeve rigidly upon the end of said bar. It will be seen that by loosening the set-screw the end of the bar D may be adjusted in the cap or sleeve to take up any shrinkage of the timbers of the gate or to provide for lateral displacement of the gate-post, whereby positive engagement of the bolt D with the latch-plate on the gate-post is secured.

The inner end of the cap or sleeve E is exteriorly threaded, and fitted upon the threaded inner end of the casing C is a nut, F, having a milled edge, whereby it may be easily turned. When it is desired to lock the bolt, the said nut is turned so that it will engage the threaded inner end of the cap or sleeve and still be in engagement with the inner end of the casing, thus locking the bar and preventing it from being withdrawn from engagement with the latch-plate until said nut is removed from engagement with the threaded end of the cap or sleeve.

G represents an eye or loop which is formed integral with the cap or sleeve, and which is adapted to be engaged by the hooked end of an arm or lever mounted in a mortise in the gate or pivoted thereto, whereby upon operating said lever the bolt D may be removed from engagement with the latch-plate to allow the gate to be opened.

The improvements above described are cheap and simple in their construction, effective in their operation, and may be readily applied.

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

1. The combination, with a casing exteriorly threaded at its inner end and a spring-actuated bolt sliding therein, of a cap or sleeve adapted to be rigidly attached to the inner end of said bolt, said cap being exteriorly threaded at its inner end, and a nut fitted on the threaded inner end of the casing and

adapted to engage the threaded inner end of the cap or sleeve, substantially as set forth.

2. The combination, with a casing and a spring-actuated bolt sliding therein, of a cap or sleeve adapted to be rigidly attached to the inner end of said bolt, an eye or loop formed integral with said cap or sleeve, and an arm or lever having a hooked end to engage said eye or loop, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WASHINGTON L. STOVALL.

Witnesses:
C. FASER,
J. C. SPIVEY.