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HENRY W. ROBIE.

Improvement in Latches for Gates.

No. 122,061.

Patented Dec. 19, 1871.

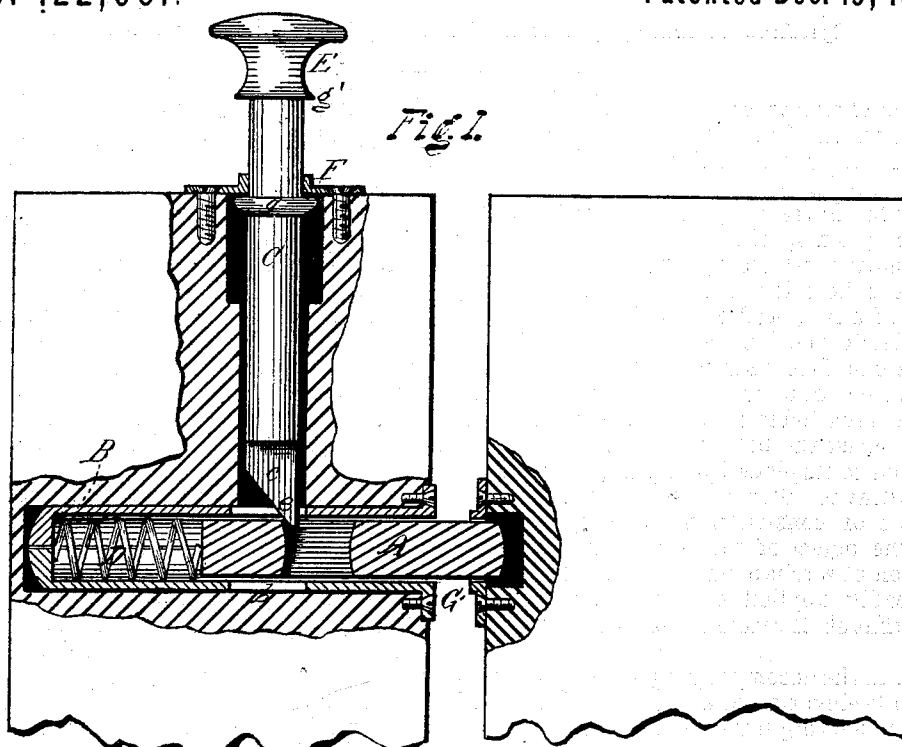


Fig. 2.

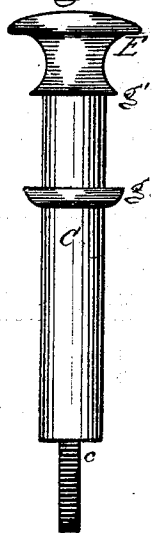


Fig. 3.

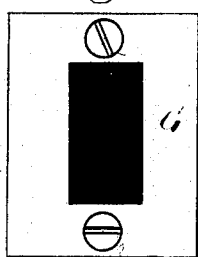


Fig. 4.

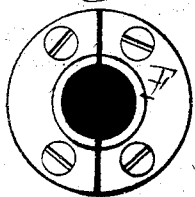
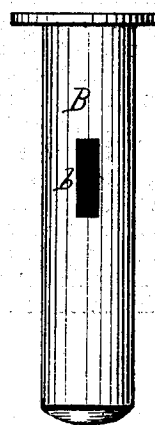


Fig. 5.



Fig. 6.



Witnesses.

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HENRY W. ROBIE, OF BINGHAMTON, NEW YORK.

IMPROVEMENT IN LATCHES FOR GATES.

Specification forming part of Letters Patent No. 122,061, dated December 19, 1871.

To all whom it may concern:

Be it known that I, HENRY W. ROBIE, of Binghamton, in the county of Broome and State of New York, have invented certain Improvements in Latches for Gates or other purposes, of which the following is a specification:

The invention relates to that class of latches in which the bolt is withdrawn from the catch by means of a latch-rod or spindle arranged at right angles to the bolt, and provided with an inclined or cam-face which engages with a corresponding face in or upon the bolt in such manner that as the latch-rod is thrust inward its inclined face shall thrust the bolt backward, the bolt being returned to its place by a spring as the latch-rod is withdrawn. The invention consists of certain details of construction which will be explained: the object of the invention being the construction of a reliable and efficient latch that may be readily applied and conveniently operated, and that shall recommend itself to the public.

Figure 1 in the accompanying drawing is a section of a side elevation of a gate with the device attached embodying my invention, showing the parts in position. Fig. 2 is the latch-rod detached. Fig. 3 is the catch. Fig. 4 is the divided flange or rose. Fig. 5 is the latch or bolt; Fig. 6, the cylindrical case.

A is the latch or bolt which works in the cylindrical case B. This latch has a longitudinal slot, *a*, corresponding to slots *b b* in said case, which has a flange with holes for screws to hold it in place. C is the latch-rod which works at a right angle with the latch A and has a flattened end, *c*, which is tapered from the inside to an angle of about forty-five degrees, extending nearly to the end, leaving a nib or projection, *e*, which extends through the slot *b* in the cylindrical case B into the slot *a* in the latch, and prevents said latch from being thrown out of place by the spiral spring D, which is placed in the end of the case B. The latch-rod C is operated by the knob

E and prevented from being thrown out of position by the reaction of the spring by the guide-socket F, which is secured in place by screws. This socket is made in two parts, for the purpose of applying it between the shoulders *g g'*. G is the catch, which has inclined sides and an oblong hole for the latch to enter to allow for the settling or depression of the gate.

The gate is opened by pressing upon the knob E, thereby engaging the tapered or inclined end of the latch-rod C with the end of the slot *a* in the latch or bolt A, which disengages it from the catch G and compresses the spring D, which by its reaction throws back the bolt and latch-rod to their places. The gate may then be re-latched by pressing the latch against the inclined side of the catch in the ordinary manner, or the knob may be held down until the gate is closed.

This device may also be attached to windows for locking or holding them in position.

From the above description it will be seen my construction and arrangement are very simple and can be cheaply made. As the latch-rod does not extend through the shell B I am obliged to provide a shoulder or stop, *g*, to prevent it from being thrown out of its place as the bolt snaps forward.

It being cheaper to cast the said rod with its shoulder *g* and the knob in one piece, I have done so, and then make the rose F in two parts, so that it shall when applied fit the rod closely, and serve as a stop against the under side of which the shoulder shall strike.

I claim as my invention—

The combination of shell B, recessed bolt A, spring D, vertical latch-rod C provided with the beveled end *c*, shoulder *g*, and knob E with the divided rose F, substantially as set forth.

HENRY W. ROBIE.

Witnesses:

S. W. ROGERS,
J. C. ROBIE.

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