

H.R. Van Eijs,

Gate Latch.

NO. 106,519.

Patented Aug 16, 1870.

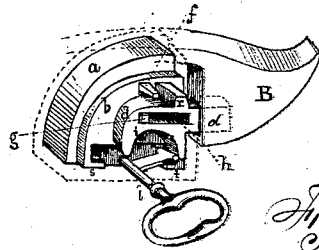


Fig. 1.

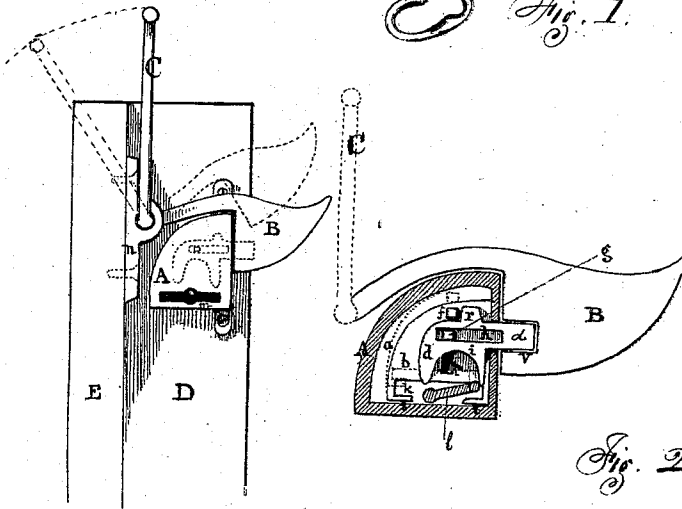


Fig. 2.

Fig. 3.

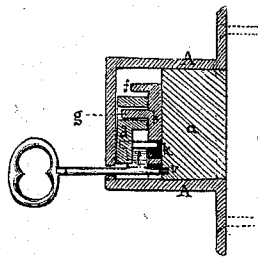


Fig. 4.

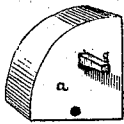


Fig. 5.

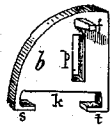


Fig. 6.

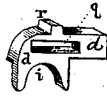


Fig. 7.

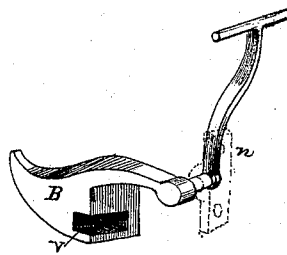


Fig. 8.

Witnesses  
E. Thurston  
Henry M. Wells

Inventor  
Henry R. Van Eijs  
By Attorney, G. B. Jones

# United States Patent Office.

HENRY R. VAN EPS, OF PEORIA, ILLINOIS.

Letters Patent No. 106,519, dated August 16, 1870.

## IMPROVEMENT IN COMBINED LATCH AND LOCK 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 R. VAN EPS, of the city of Peoria, in the county of Peoria, and in the State of Illinois, have invented a Gate-Catch and Lock; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawing, making a part of specification, in which like letters of reference refer to like parts, and in which—

Figure 1 represents a perspective view.

Figure 2, a front elevation of the lock.

Figure 3, an elevation of the catch and lock.

Figure 4, a section from front to rear.

Figure 5, perspective view of back piece.

Figure 6, view of quadrant-shaped block between the back-piece and the bolt.

Figure 7, view of the bolt.

Figure 8, perspective view of the catch and handle.

Like letters in the different figures of the drawing indicate like parts.

This invention combines the plan of a latch and a lock, and consists of a box, A, fastened to the gate-post D, the face or front of the box curving upward and backward for the guidance of the latch B. This face fronts toward the front of the line of fence and gate.

The box A contains a back-piece, *a*, from which projects a horizontal pin, *g*.

The latter passes through a vertical slot, *p*, in a quadrant-shaped block, *b*, this block having also another slot, *k*, a horizontal one, being entirely open on the lower side, leaving two arms, *s* and *t*, at each angle of the block.

Another horizontal pin, *f*, projects from near the upper corner of this block, intended as a stop to lock the bolt *d* when the block *b* falls to the bottom of the lock A.

Against the face of the lock *b* is placed the bolt *d*, which is kept in place by the before mentioned pin *g*, projecting from the back-piece *a* through the block *b*, and passing through a horizontal slot in the said bolt *d*.

The latter has a dog, *r*, in its upper surface, by which the bolt is retained or locked by the action of the pin *f*.

The lower inner end of the bolt terminates in two arms, connected by a semicircular or hollow slot, *z*, for the admission of the key.

The box A has a horizontal slot, *m*, opening into the interior, for the insertion of the key *l*.

The box has a flange or projection above and be-

low, having a screw-hole in each, by which the box is fastened to the flank of the gate-post.

A recess, V, in the lower part of B, represents a catch, with a curved front, made thus for the purpose of sliding up the front of the lock A, the stem of which terminates in front of the lock on the gate in an axle, having its bearing in a box, *n*, screwed onto the back of the gate.

From the axle there projects upward a lever, C, and cross-handle, forming a ready means of unlatching the gate, as the handle or lever projects well above the wood-work of the gate.

The hook of the catch B has a recess, V, as described, for receiving the bolt-head *d*.

The back-piece *a* has a hole, *o*, to receive the heel of the key.

The operation is as follows:

In closing the gate the catch B slides up the incline of the quadrant-shaped block A; the hook then falling over the inner edge of the lock, fastens the gate. The locking of the gate, when necessary, is done by inserting the key *l* into the horizontal slot in the side of the lock A, with the ward toward the left hand, and turning the key to the right, the ward of the key pressing against the right-hand side of the curved slot *i* of the bolt *d*, the latter being allowed this motion by its slot *g*, at the same time the inner end of the key entering the slot *k* of the block *b*, raises the block, and with it its pin *f*, then on the right side of the dog *r* of the bolt *d*.

This motion causes the pin *f* to liberate the dog and allow the pressure of the key-ward to carry the bolt-head forward into the recess of the catch B. The block *b* then falls with its pin behind the dog *r*.

To unlock the same, a reverse motion is set up by corresponding reversion of the key.

Having thus fully described my invention,

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

The combined gate-latch and lock, consisting of the quadrant-shaped box or lock A, with key *l*, constructed and attached to gate-post as described, in combination with the catch B, provided with the recess V, and lever C, having its bearing in box *n* on the gate, substantially as described.

In testimony that I claim the foregoing catch and lock for gates, I have hereunto set my hand this 23d day of March, 1870.

HENRY R. VAN EPS.

Witnesses:

E. THURLOW,  
HENRY W. WELLS.