H. UNGER.
Gate-Latch.

No. 204,267. Patented May 28, 1878.

Fig. 1.

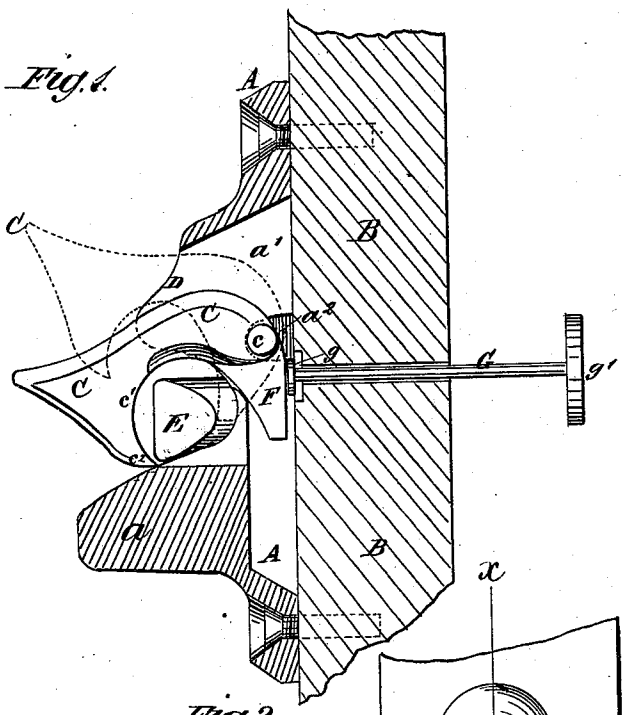


Fig. 2.

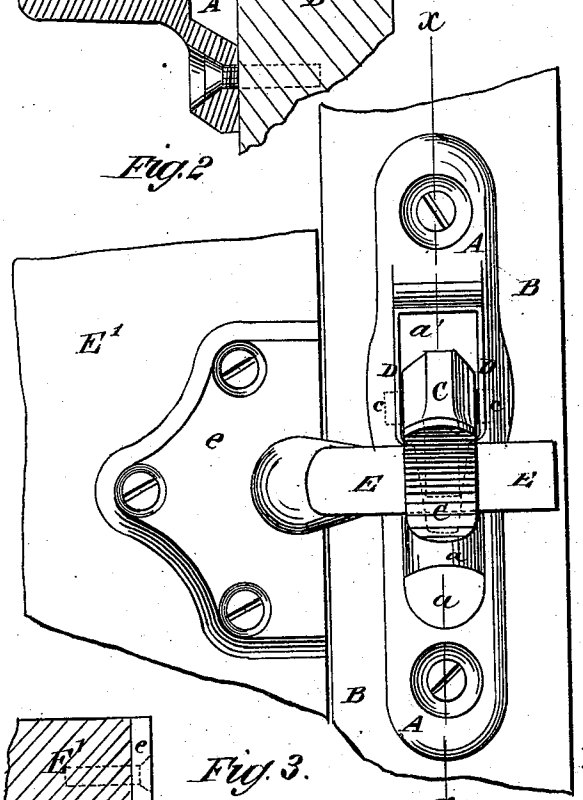
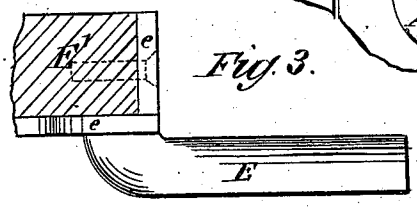


Fig. 3.



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UNITED STATES PATENT OFFICE.

HIRAM UNGER, OF GERMANTOWN, ASSIGNOR TO HIMSELF AND JACOB S. ANTRIM, OF MONTGOMERY COUNTY, OHIO.

IMPROVEMENT IN GATE-LATCHES.

Specification forming part of Letters Patent No. **204,267**, dated May 28, 1878; application filed March 29, 1878.

To all whom it may concern:

Be it known that I, HIRAM UNGER, of Germantown, county of Montgomery, State of Ohio, have invented a new and Improved Gate-Fastening, of which the following is a specification:

The object of my invention is to provide a strong and effective fastening for gates, so constructed that the gate cannot be opened accidentally by being lifted, or by rebounding of the catch or latch.

The invention consists in combining a casting that has a lug, stud, and recesses, as hereinafter described, with a catch having pivots and arm, operated by a slide.

In the accompanying drawing, Figure 1 represents a vertical section of my improved gate-fastening, taken through the line *x x* of Fig. 2. Fig. 2 is a front view of the same. Fig. 3 is a detail view of the latch.

Similar letters of reference indicate corresponding parts.

A is a plate, attached by screws to the gate-post B, and provided with a stud, *a*, which is inclined on its upper surface, and on which the gate-latch slides up and rests when the gate is closed.

Above the stud *a* the plate A is provided with an opening, a^1, in the two opposite inner sides of which are formed recesses a^2, as bearings for the reception of the pivots *c* of the gate hook or catch C, which is thus fitted to work in the said opening a^1. The sides of the opening a^1 are extended forward, forming a lug, D, on each side of the catch C, said lugs projecting from the plate A at a suitable distance above the stud *a* to give room for the latch between the stud *a* and the lugs D, and reaching far enough forward to serve as a stop to the raising of the latch, and thus prevent unfastening by any attempt of cattle to lift the gate.

F is a downward-projecting arm or lever formed upon the rear end of the hook or catch C below its pivots *c*.

G is a lifter, to raise the catch C by pressure on the arm F, and thus open the gate from the side opposite to the latch. The lifter G consists of a pin or rod fitted to slide in the gate-post B directly behind the arm F of the catch C, and provided on its forward end with a washer, *g*, to keep it in place, and on its rear end with the knob *g'* for operating it.

E is the latch, cast in one piece with the angle-plate *e*, by which it is secured to the gate E'.

The latch E is made of a triangular form of cross-section, with rounded-off corners, as shown in Fig. 1, so as to adapt it to enter easily between the downward incline of the catch C and the upward incline of the stud *a*. The rising of the latch E up the incline of the stud *a* retards the velocity and lessens the concussion consequent upon a violent closing of the gate, and the rebounding of the catch C, struck by the entering latch E, which often causes the reopening of the gate, is prevented by the latch E striking the arm F of the catch C, as shown in dotted lines in Fig. 1, and forcing it down to its place.

The inner side of the catch C is made of a curved or circular form at c^1, and ending below with the inward-turned point c^2. By this construction the two rear corners of the latch E will be encircled by the catch C, the point c^2 of which will enter underneath the lower corner of the latch while the latter is resting on the stud *a*, thus preventing the catch from being raised and the gate opened by any rebounding of the latch E or outward pressure on the gate.

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

The casting A, having lug D, stud *a*, opening a^1, and recesses a^2, in combination with the catch C, having pivots *c* and arm F, the latter operated by a slide, G, as and for the purpose specified.

HIRAM UNGER.

Witnesses:
CHAS. W. SHIMP,
JNO. ZEHRING.