

F. Clymer.
Door-Latch.

N^o 71982

Patented Dec. 10, 1867

Fig. 3.

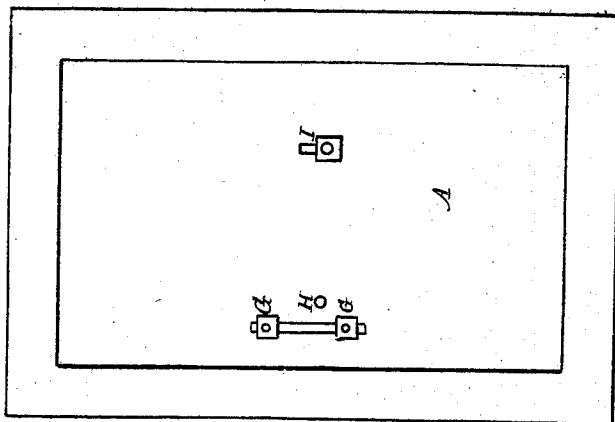


Fig. 2.

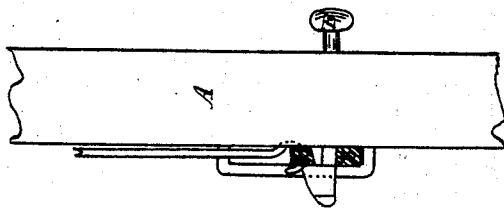
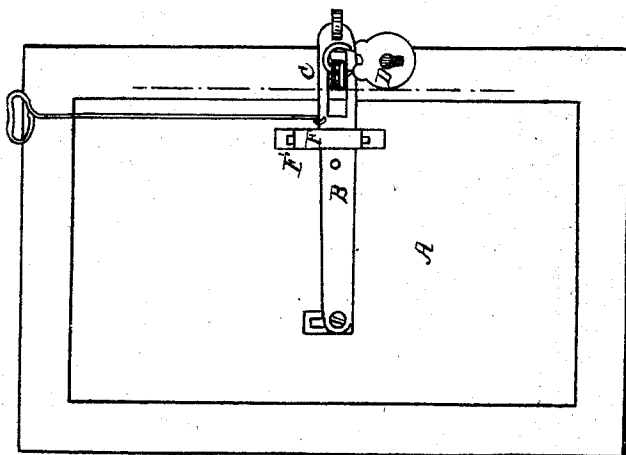


Fig. 1.



Witnesses

Chas. F. Clancy
Lawrence Murphy

Inventor:

Francis Clymer
by
S. P. Holloway
his atty.

United States Patent Office.

FRANCIS CLYMER, OF GALION, OHIO.

Letters Patent No. 71,982, dated December 10, 1867.

IMPROVED DOOR-LATCH.

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, FRANCIS CLYMER, of Galion, in the county of Crawford, and State of Ohio, have invented a new and useful Improvement in Latches for Doors; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is an elevation of a door with my latch attached.

Figure 2 is a vertical cross-section of the same; and

Figure 3 an elevation of the inside of the door, showing the mode of attaching the same.

The same letters are employed in all the figures for the indication of identical parts.

This invention consists in attaching to a door a hasp which also acts as a latch by means of screw-bolts passing through slots in the door, so arranged that the height of the latch may be adjusted in case the door should sag from use, by loosening the nuts on the bolts and changing the position of the latch, and thus fastening it by simply tightening the nuts.

A is the door, and B the latch, turning upon a pivot at one end, and fastened by a hasp in the jamb of the door. This form of latch in common use is very cheap and convenient, but subject to the objection that it cannot be locked. I make the latch with a slot near the end where it projects beyond the door. This slot passes over the horizontally-placed staple C, which is constructed with its sides sloping upwards, and with a notch on each side to receive the latch. The width of the slot in the latch must be at least equal to the depth of the staple. I prefer to bevel the upper edge of the slot so that the latch shall rise more readily on the sloping face of the staple. The latch, when the door is closed, may be secured by a padlock, D. By this arrangement I unite the advantages of the ordinary hasp and drop-latch.

One inconvenience in the use of this class of latches on barn-doors and other cheap and illy-made doors, is that the doors soon "sag," so that the latch will not operate. I obviate or provide for this difficulty by the mode of attaching the latch. The pivot is passed through a vertical slot at I, and fastened on the inside by a nut or nut and washer. In like manner the staple F, supporting the latch near the edge of the door, is formed in two parts, F and F', of which F is the staple proper, and F' a plate through which the points of the staple pass. A vertical slot, H, is cut in the door, and the staple secured by nuts G. These slots allow the latch to be adjusted vertically, as may be required to accommodate it to the changes in the bevel of the door.

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

The mode of attaching a combined latch and hasp, B, and staple, F, to doors, by means of slots I and H, so as to permit the adjustment of the same, substantially as set forth.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

FRANCIS CLYMER.

Witnesses:

M. E. BARLOW,

J. D. BARRETT.