

O. R. WINSLOW.  
LATCH.

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# UNITED STATES PATENT OFFICE.

ORLANDO R. WINSLOW, OF MARSHFIELD, MISSOURI.

## LATCH.

SPECIFICATION forming part of Letters Patent No. 546,373, dated September 17, 1895.

Application filed January 19, 1895. Serial No. 535,532. (No model.)

*To all whom it may concern:*

Be it known that I, ORLANDO R. WINSLOW, a citizen of the United States, residing at Marshfield, in the county of Webster and State of Missouri, have invented a new and useful Door-Latch, of which the following is a specification.

My invention relates to a latch designed for use in connection with barn-doors, gates, &c.; and the objects in view are to provide a simple, inexpensive, and efficient latch adapted for locking the door or gate in either its open or closed position; to provide a latch which is adapted to engage a catch of the same construction in either its open or closed position, and to provide means whereby the latch may be disengaged from the catch from the opposite side of the gate or door from that to which it is secured.

Further objects and advantages of this invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of a fastening device embodying my invention. Fig. 2 is a detail view showing the manner of using the disengaging device. Fig. 3 is a plan view showing the door in section. Fig. 4 is a detail view in perspective of the latch.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a longitudinally-slotted bracket provided with lateral ears 2, perforated to receive screws 3, whereby the bracket may be secured to the jamb or post of a door or gate, and 4 represents a transverse pin or rivet intersecting the slot 5 of the bracket to support the ring 6, which is arranged in the slot. The center of this ring is normally arranged below the plane of the lower side of the bracket in the path of the latch 7, which is secured to the door 8. This latch is so arranged with relation to the catch as to operate at its upper edge in a plane contiguous to and slightly below the lower edge of the bracket, the body portion of said latch extending beyond the free edge of the door and extending under the bracket. Beyond the outer side of the bracket the latch is provided with an offset 9

to form a tongue 10, which is parallel with the body portion of the latch and extends outward or from the bracket.

When the gate or door is in its closed position, as shown in Fig. 1 in full lines, the body portion of the latch is engaged by the ring and lies in contact with the surface of the post or jamb, said ring being prevented from swinging outward to allow the latch to pass by the outer end of the slot in the bracket. When the gate or door is opened and occupies a position approximately parallel with the fence or side of the barn, as shown in dotted lines in Fig. 1, the offset tongue is engaged by the ring 11 of the catch 12, secured to said fence or side of the barn at a distance from the hinged edge of the gate or door corresponding approximately with the width of the gate or door. This offset tongue operates the ring of the secondary or auxiliary catch in the same way as the body portion of the latch operates the ring of the primary or main catch, said tongue forming a stop which strikes the fence or the side of the barn and prevents further movement of the gate or door.

In order to disengage the latch from the ring of the catch, it is necessary to raise the ring, as in other devices of this class, and in order to provide for raising the ring of the main or primary catch from the opposite side of the gate or door from that to which the latch is applied I provide a disengaging-arm 13, which is pivoted at one end to the body portion of the latch by means of a transverse spindle 14, terminating at the inner or remote side of the gate or door in a handle 15, said spindle being extended through an opening in the gate or door and having a shoulder 16 at the inner surface of the body portion of the latch to bear against the latter and a similar shoulder 17 at the outer surface of the body portion of the latch against which the end of the disengaging-arm bears, a nut 18 being arranged upon the end of the spindle to hold said arm in place thereon. The free end of this disengaging-arm is enlarged, the outer side thereof being inclined outward from the plane of the inner side to the plane of the tongue 10, and the extremity of the arm is flared, as shown at 19, to insure proper engagement thereof with the lower side of the ring when the arm is operated.



The offset tongue at the extremity of the latch forms a convenient handle for the gate or door by which to open same, whereby the hand which grasps said tongue is in convenient position to raise the ring, the latter operation being accomplished by means of the thumb of the hand which grasps the tongue. In the same way the projecting end of the body portion of the latch forms a handle by which to swing the door from its open position, said projecting end of the body portion being arranged contiguous to the ring of the secondary or auxiliary catch when the gate or door is in its open position.

In practice various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

Having described my invention, I claim—

1. The combination with main and auxiliary catches located, respectively, at the free edges of a gate or door and at a distance from the hinged edge thereof corresponding approximately with the width of the gate or door, said catches having gravity rings, of a latch rigidly secured to a gate or door with its body portion projecting beyond the free edge thereof to engage the ring of the main catch and provided with a forwardly offset tongue parallel with the body portion of the latch and adapted to serve as a handle when the gate

or door is in its closed position and to engage the ring of the auxiliary catch when the gate or door is in its open position, said offset tongue being also adapted to serve as a stop to limit the swinging movement of the gate or door when it reaches its open position, substantially as specified.

2. The combination with a catch having a gravity ring and means for limiting the movement thereof, of a latch adapted to be secured to a gate or door in a plane contiguous to the lower side of the catch, said latch being provided with an offset tongue parallel with the body portion of the latch, and a pivotal disengaging arm mounted upon the body portion of the latch at an intermediate point of the latter and terminating in an abrupt extremity contiguous to the offset of the latch and approximately equal to the interval between the plane of the body portion and the tongue thereof, said disengaging arm being provided with a perpendicularly disposed handle adapted to extend through the gate or door, substantially as specified.

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

ORLANDO R. WINSLOW.

Witnesses:

E. BREWINGTON,  
GUY WINSLOW.