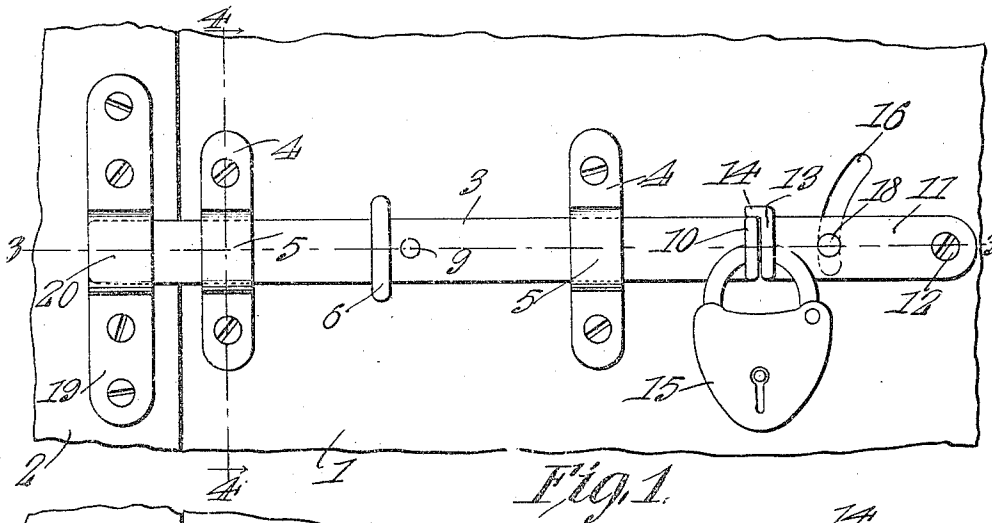
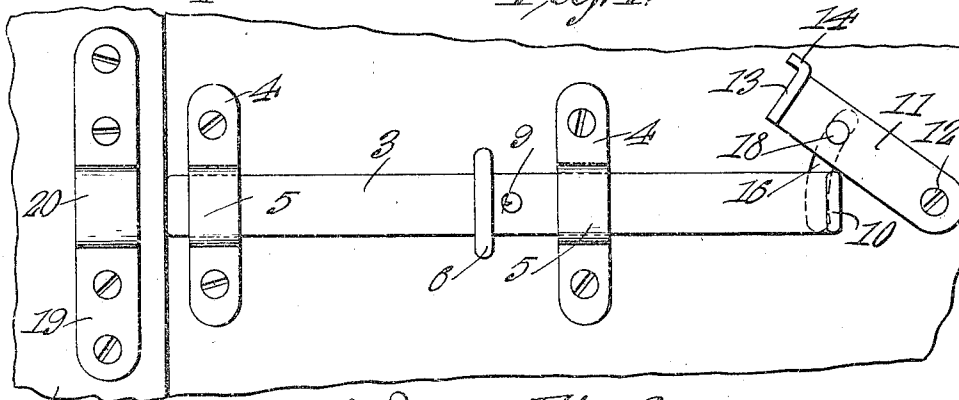
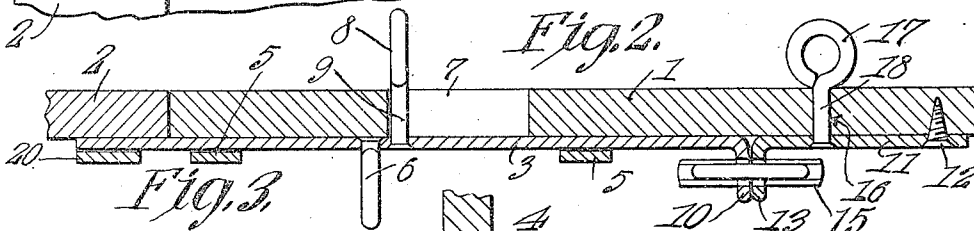
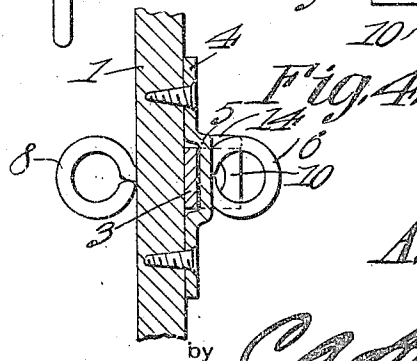


A. SMITH.
LATCH FOR GATES, BARN DOORS, &c.
APPLICATION FILED JULY 7, 1916.

1,260,469.

Patented Mar. 26, 1918.



Witnesses

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UNITED STATES PATENT OFFICE.

ARCHIBALD SMITH, OF ROBINSONVILLE, MISSISSIPPI.

LATCH FOR GATES, BARN-DOORS, &c.

1,260,469.

Specification of Letters Patent.

Patented Mar. 26, 1918.

Application filed July 7, 1916. Serial No. 107,981.

To all whom it may concern:

Be it known that I, ARCHIBALD SMITH, a citizen of the United States, residing at Robinsonville, in the county of Tunica and State of Mississippi, have invented a new and useful Latch for Gates, Barn-Doors, &c., of which the following is a specification.

The present invention appertains to latches, and aims to provide a novel and improved latch for use upon gates, barn doors, and the like.

It is the specific object of the invention to provide in connection with a latch bolt, novel means for locking it in projected position.

It is also the object of the invention to provide a latch device which can be readily applied to various gates, doors and the like, and which is not only extremely simple and inexpensive in construction, but which is also thoroughly efficient and practical for its intended purposes.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

The invention is illustrated in the accompanying drawing, wherein:—

Figure 1 is a front view of the device with the latch bolt projected and locked.

Fig. 2 is a similar view with the latch bolt retracted and released.

Fig. 3 is a horizontal section on the line 3—3 of Fig. 1.

Fig. 4 is a vertical section on the line 4—4 of Fig. 1.

In the drawing, the numerals 1 and 2 designate two arbitrary parts which are movable relative to one another out of a common plane. For example, one of said parts can represent a gate post and the other a gate, or one or both parts may represent the door of a barn, or the like.

In carrying out the invention, there is provided a horizontal slidable latch bolt 3, preferably formed from a bar, and mounted for horizontal sliding movement against one side of the part 1, vertical guide straps

4 being secured by means of screws or otherwise to the part 1 and having offsets 5 between their ends through which the latch bolt 3 is slidable. A ring-shaped or other suitable handle 6 is attached to the latch bolt 3 in order that it can be readily slid, and a similar handle 8 is provided at the opposite side of the part 1 and has a shank 9 working within a horizontal slot 7 with which the part 1 is provided, and said shank is riveted or otherwise secured to the latch bolt 3. The handles 6 and 8 permit the latch bolt to be projected and retracted from opposite sides of the door or part 1. When the latch bolt 3 is projected, it overlaps the part 2, and when it is retracted, the parts 1 are released in order that one of them can be moved relative to the other.

As a means for locking the latch bolt 3 in projected position, the rear or heel end thereof is provided with an outstanding apertured ear 10 for coöperation with a swingable detent 11, preferably formed from a bar, having one end pivoted, as at 12, to that side of the part 1 at which the latch bolt 3 is disposed. The detent 11 is pivoted in order that when the latch bolt 3 is projected, the detent 11 can be swung into alignment with the latch bolt 3, with the free end of the detent 11 abutting the rear end of the latch bolt. The free end of the detent 11 is provided with an outturned apertured ear 13 to complement the ear 10, and the ear 13 has an angularly extending flange or stop 14 to contact with the ear 10 when the detent is swung into alignment with the latch bolt 3, whereby to properly limit the movement of the detent. As illustrated, the detent 11 is arranged to swing upwardly to releasing position, and downwardly to locking position. The detent 11 can be readily raised from the corresponding side of the part 1 to permit the latch bolt 3 to be retracted, and in order to permit the detent 11 to be raised from the opposite side of the part 1, said part is provided with an arcuate slot 16 and a ring-shaped or other suitable handle 17 has a shank 18 working within the slot 16 and secured to the detent 11. This handle 17 can be readily raised for releasing the detent 11 from the latch bolt 3.

A vertical strap 19 is secured in any suitable manner to the part 2 and has an offset providing a keeper for receiving the end of the latch when it is projected, in order to latch the parts 1 and 2 together. To

- unlatch the parts 1 and 2, the detent 11 is raised, which permits the latch bolt 3 to be retracted, and the detent will then rest upon the rear or heel end of the latch bolt
- 5 3. As soon as the latch bolt is projected, the detent will drop in rear thereof, and hold it in projected position. A padlock 15 can be readily applied to the ears 10 and 13 for locking the latch bolt in place.
- 10 Having thus described the invention, what is claimed as new is:
- The combination with a door, of a latch bolt at one side thereof, guides for the latch bolt carried by the door, the latch bolt being projectable beyond one edge of the door, the door having a slot behind the latch bolt, a handle secured to the latch bolt and projecting through said slot to the opposite side of the door, a detent pivoted to the
- 20 door at the first mentioned side beyond the rear end of the latch bolt and swingable into alinement with the latch bolt when it is projected, the rear end of the latch bolt and free end of the detent having apertured ears projecting away from the door for the
- 25 reception of a pad lock, the ear of the detent having a flange at its upper edge to rest upon the ear of the latch bolt, the door having an arcuate slot behind the detent, and a handle secured to the detent and projecting through the arcuate slot to the opposite side of the door.
- 30 In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

ARCHIBALD SMITH.

Witnesses:

H. C. KINNEY,
M. R. SMITH.