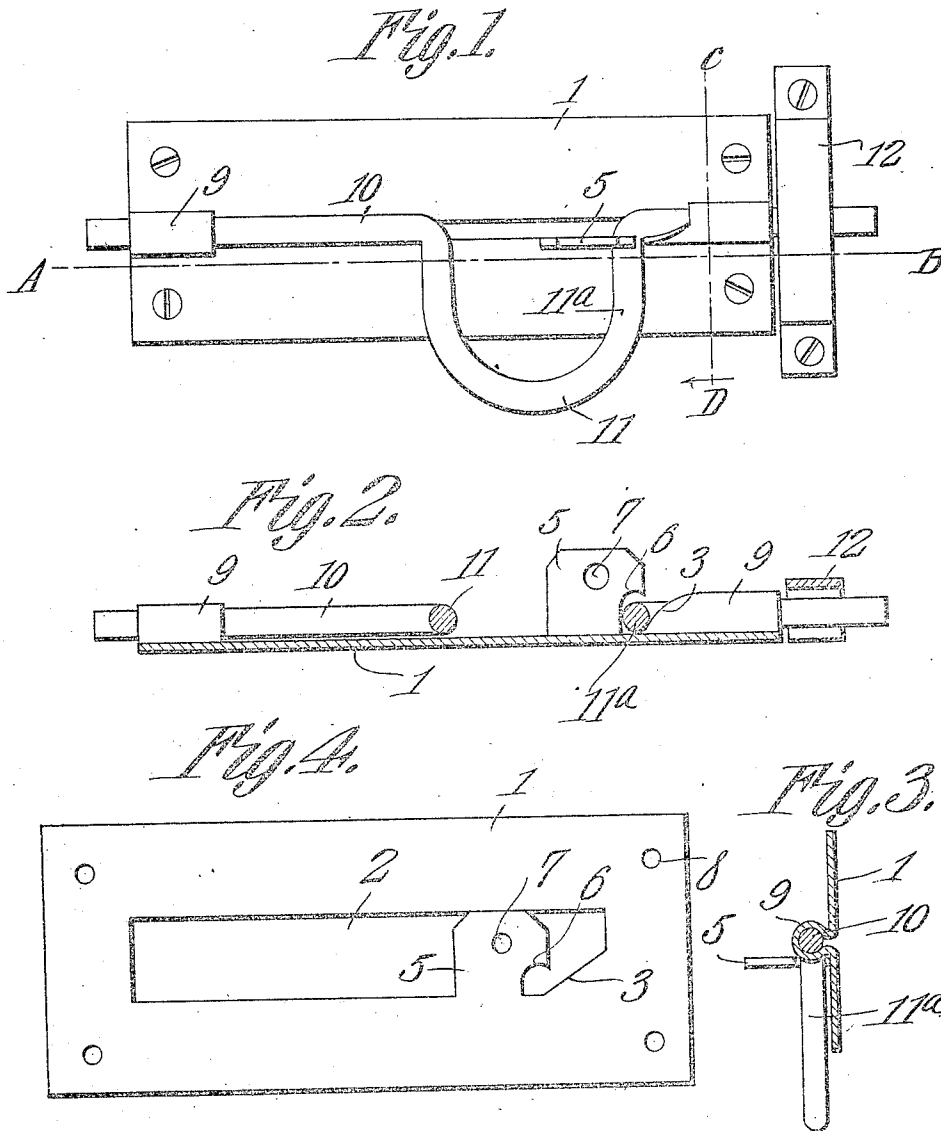


W. T. S. DICKEY.
LOCKING BOLT.
APPLICATION FILED NOV. 3, 1908.

931,735.

Patented Aug. 24, 1909.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM T. S. DICKEY, OF MINERALBLUFF, GEORGIA.

LOCKING-BOLT.

931,735.

Specification of Letters Patent. Patented Aug. 24, 1909.

Application filed November 3, 1908. Serial No. 460,804.

To all whom it may concern:

Be it known that I, WILLIAM T. S. DICKEY, a citizen of the United States, residing at Mineralbluff, in the county of Fannin and State of Georgia, have invented a new and useful Locking-Bolt, of which the following is a specification.

This invention relates to locking bolts and its object is to provide a device of this character which is simple and durable in construction, the same being formed of but two parts, one of which constitutes the base and guides, while the other constitutes the slidable member.

Another object is to provide novel means whereby the bolt can be securely held in locking position so as to prevent it from being withdrawn by live stock.

Another object is to provide a bolt of this character which can readily be locked in shifted position by means of a padlock.

Another object is to provide a locking bolt which can be used either upon left-hand or right-hand doors as desired.

With these and other objects in view the invention consists of certain novel details of construction and combinations of parts hereinafter more fully described and pointed out in the claims.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings:—Figure 1 is a front elevation of the lock embodying the present improvement. Fig. 2 is a section on line A—B Fig. 1. Fig. 3 is a section on line C—D Fig. 1. Fig. 4 is a view of the blank from which the base portion of the bolt is formed.

Referring to the figures by characters of reference 1 designates the base-plate of the device, the same being formed with an elongated slot or opening 2 therein having a diagonally extending wall 3 at one end thereof for the purpose hereinafter set forth, there being an ear 5 formed integral with one longitudinal wall of the slot 2. This ear has a notch 6 at one end thereof designed to partly lap the diagonal wall 3 of the slot, and an opening 7 is formed within the ear. Openings 8 are also formed within the plate 1 and are for the purpose of receiving screws or other fastening devices used for securing the bolt to a door or other structure. The base is designed to be stamped in a single blank as indicated in Fig. 4, after which it is folded

along a line extending longitudinally thereof so that the end portions of the base form eyes 9 at the centers thereof, said eyes being disposed in alinement and constituting guides as hereinafter set forth. The diagonal wall 3 constitutes a portion of one of the eyes and operates as a cam, as hereinafter set forth. The ear 5 is bent in position at right angles to the plate 1.

The eyes 9 are designed to receive the end portions of a bolt 10 having an intermediate U-shaped or arched portion 11. One arm, 11^a, of this arched portion, is designed to ride upon the cam 3 and to be directed thereby into the notch 6, as indicated in Fig. 2. This is the position of the bolt when the same is held against retraction from its keeper 12.

It will be seen, from the foregoing description, that the bolt here described is formed of but two parts, to wit the base-plate 1 and the slidable member 10. When the bolt is retracted the arched portion 11 thereof rests between the ear 5 and that eye 9 which is located farthest from the cam 3. When it is desired to shift the bolt, the arched portion 11, which constitutes an efficient handle, is swung upwardly into a plane above the tongue or ear 5 and is then slid over the ear 5 until the arm 11^a thereof is brought into contact with the eye 9 having the cam 3 thereon. This movement is sufficient to project the bolt into its keeper 12. As soon as the limit of movement has been reached the arched portion 11 is released and drops by gravity into lowered position. The arm 11^a thereof rides downward on the cam 3 and is deflected thereby into the notch 6. It will be apparent therefore that it is impossible to disengage the arched portion from the notched ear simply by swinging it vertically. Instead, said arched portion must be pushed upwardly along the cam 3 until it passes out of the notch 6, whereupon it can be swung upwardly a sufficient distance to pass over the ear 5. By providing this notched ear 5 it is impossible for live stock to raise the arched portion 11 or in any wise shift the bolt. By placing a padlock within the opening 7 the bolt can be held against longitudinal movement and thus securely held within its keeper 12.

It is of course to be understood that various changes may be made in the construction and arrangement of the parts without de-

parting from the spirit or sacrificing the advantages of the invention.

What is claimed is:—

1. In a locking bolt a longitudinally slot-
5 ted sheet metal base having outstanding in-
tegral guide eyes bridging the ends of the
slot, there being a retaining device integral
with and outstanding from one wall of the
slot, and a bolt slidably mounted within the
10 eyes and having an intermediate arched
handle portion movable into engagement
with said device.

2. A device of the character described
comprising alining guides, a retaining mem-
15 ber interposed therebetween and out of
alinement therewith, a member slidably
mounted within the guides and having an
outstanding handle portion slidable upon
and disposed to swing into position at either
20 side of the retaining member, and deflecting
means for directing said handle portion into
engagement with the retaining member dur-
ing the swinging movement of the handle
portion in one direction.

25 3. A device of the character described
comprising alining guides, a recessed retain-
ing member therebetween and out of aline-
ment therewith, a member slidably mounted
within the guides and having an outstanding
30 handle portion slidable past said retaining
member and mounted to swing into position
at either side thereof, and means upon one
of the guides for deflecting the handle portion

into the recess within the retaining member
during the swinging movement of said han- 35
dle portion in one direction.

4. A device of the class described com-
prising a longitudinally slotted base-plate
having alining folds at the ends of said slots
constituting guiding eyes, there being a cam 40
integral with one of said eyes and a recessed
retaining member integral with one wall of
the slot and extending perpendicularly from
the plate, and a bolt slidably mounted within
the eyes and having an intermediate arched 45
portion shiftable against the cam and into
the recessed retaining member.

5. A device of the class described com-
prising a guide, a recessed retaining member
interposed therebetween and out of aline- 50
ment therewith, and a bolt slidably mounted
within the guide and having an intermediate
arched portion slidable over the retaining
member and disposed to swing to either side
thereof, and means upon the guide for de- 55
flecting the handle portion into engagement
with the recessed retaining member during
the swinging movement of said handle por-
tion in one direction.

In testimony that I claim the foregoing as 60
my own, I have hereto affixed my signature
in the presence of two witnesses.

WILLIAM T. S. DICKEY.

Witnesses:

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J. F. McNELLEY.