(No Model.)

A. E. DURLAND.

DOOR BOLT.

No. 497,445. Patented May 16, 1893.

Fig. 1.

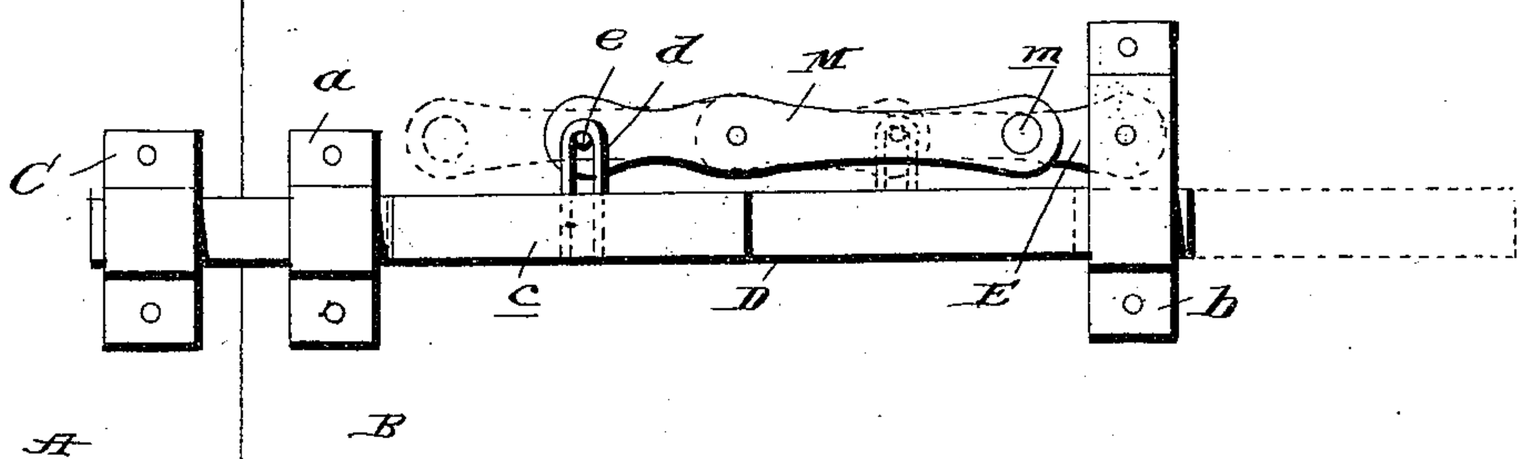
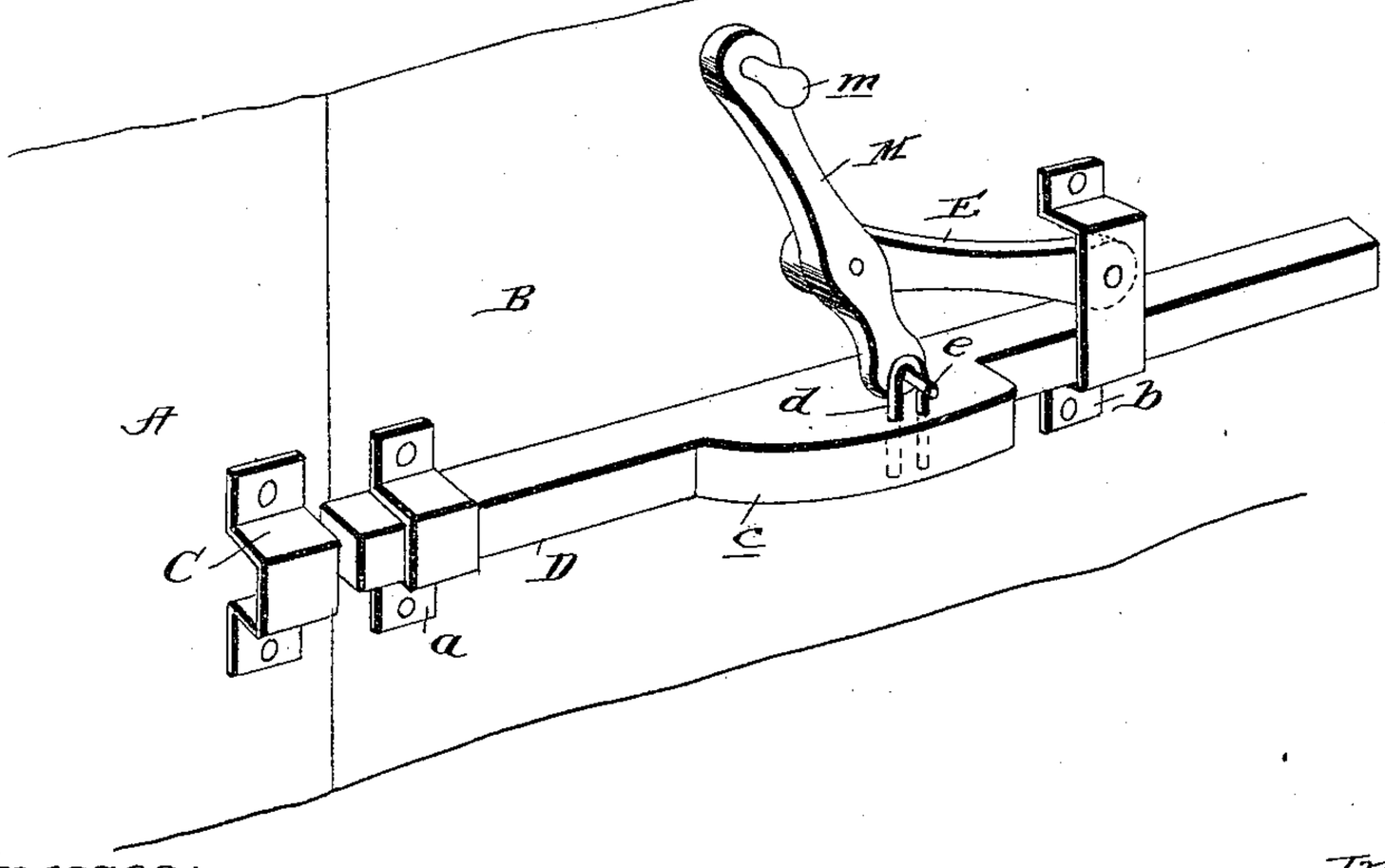


Fig. 2.



Witnesses:
C. H. Raeder
R. F. Matthews.

Inventor
Albert E. Durland.
By James J. Sheehy
Attorney

UNITED STATES PATENT OFFICE.

ALBERT E. DURLAND, OF STAPLEHURST, NEBRASKA.

DOOR-BOLT.

SPECIFICATION forming part of Letters Patent No. 497,445, dated May 16, 1893.

Application filed January 31, 1893. Serial No. 460,185. (No model.)

To all whom it may concern:

Be it known that I, ALBERT E. DURLAND, a citizen of the United States, residing at Staplehurst, in the county of Seward and State of Nebraska, have invented certain new and useful Improvements in Door or Gate Fasteners; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has relation to improvements in door and gate fasteners, and it has for its general object to provide a fastener embodying a sliding bolt and such means for manipulating said bolt that the same will be locked against casual movement in its unlocked, as well as its locked position.

A further object of the invention is to provide such means for manipulating the bolt that the same may be quickly and easily shot in either direction.

To the attainment of the foregoing and other objects, the invention consists in combination with a sliding bolt, of a swinging lever pivoted or fulcrumed at one end, and a hand lever fulcrumed upon the swinging lever and pivotally connected to the sliding bolt; the said swinging and hand levers being so arranged with respect to each other and the bolt that when said bolt rests in either its locked or unlocked position the swinging lever and the hand lever will rest in alignment and a dead center will be thereby formed which will prevent movement of the bolt in either direction.

The invention will be fully understood from the following description and claims when taken in connection with the accompanying drawings, in which—

Figure 1, is an elevation of my improved fastener applied to a door; the bolt being illustrated in its locked position by full lines and in its unlocked position by dotted lines. Fig. 2, is a perspective view illustrating the bolt as partly shot.

Referring by letter to the said drawings: A, indicates a door casing, and B, indicates a door, both of which may be of any ordinary or approved construction.

Suitably secured upon the casing A, is a keeper C, for the engagement of the sliding bolt D, which takes through suitable guide straps *a*, *b*, and is preferably provided upon its outer edge at an intermediate point in its length with a shoulder or enlargement *c*, as shown, for a purpose presently described.

E, indicates the swinging lever, which may be pivoted or fulcrumed between the guide strap *b*, and the door, as shown, or at any other suitable point. Pivotally connected or fulcrumed at an intermediate point in its length to the swinging lever E, preferably at the free end thereof is the hand or manipulating lever M, which is preferably provided at one end with a hand piece *m*, and is pivotally or loosely connected at its opposite end to the bolt. In effecting this connection of the hand lever to the bolt I prefer to provide the bolt with a staple as *d*, and the hand lever with a lateral stud or lug *e*, which takes through the staple as illustrated.

In practice when it is desired to shoot the bolt into its locked position; the parts resting in the position illustrated by dotted lines in Fig. 1, the hand lever M, is swung down as shown in Fig. 2, and is then swung upwardly toward the guide strap *b*, until it rests in alignment with the lever E; the bolt being moved by such manipulation of the lever, through the keeper C. When it is desired to move the bolt into its unlocked position, the movement of the hand lever M, is simply reversed.

From the foregoing description, it will be readily seen that while the bolt may be easily and quickly shot through the medium of the hand lever M, it cannot be moved by pressure applied directly to it, while the levers rest in alignment and form a dead center as before described. Thus it will be seen that a casual movement of the bolt from its locked or unlocked position will be absolutely prevented.

Having described my invention, what I claim is—

In a door or gate fastener, substantially as described, the combination with a slidable bolt; of a swinging lever E, pivoted or fulcrumed at one end to a stationary support and a hand lever M, pivoted or fulcrumed at an intermediate point in its length upon the swinging lever at or adjacent to the swinging end thereof and also pivotally connected at one end to the slidable bolt; the said swing-

ing and hand levers being so arranged with respect to each other and the bolt that when said bolt rests in either its locked or unlocked position, the swinging lever and the hand lever will rest in alignment so as to form a dead center, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

ALBERT E. DURLAND.

Witnesses:
GEO. W. LOWLEY,
J. ARTHUR WHITE.