(No Model.)

M'K. DRISCOLL.

DOOR BOLT.

No. 344,174. Patented June 22, 1886.

Fig. 1.

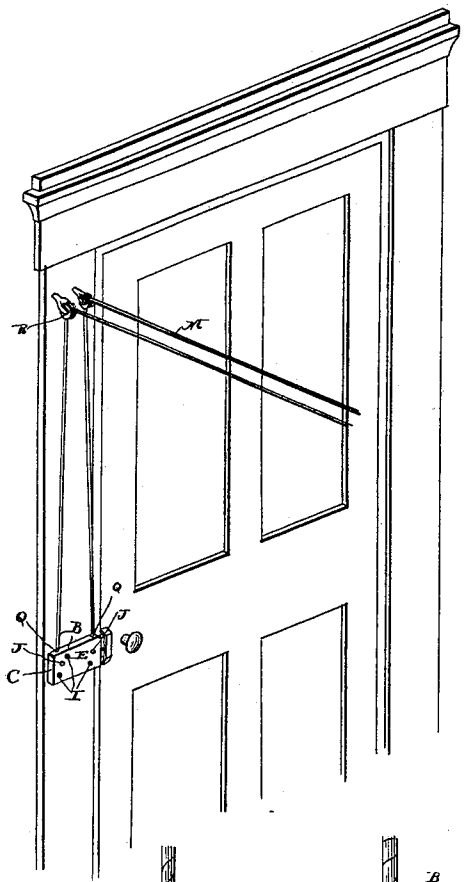


Fig. 2.

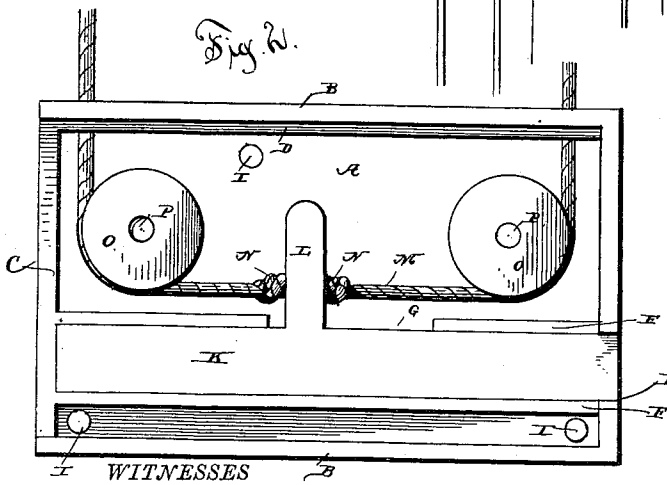
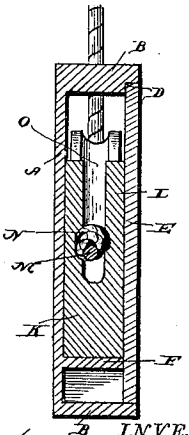


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

M'KENDREE DRISCOLL, OF LOUISVILLE, KENTUCKY.

DOOR-BOLT.

SPECIFICATION forming part of Letters Patent No. 344,174, dated June 22, 1886.

Application filed April 30, 1886. Serial No. 200,707. (No model.)

To all whom it may concern:

Be it known that I, M'KENDREE DRISCOLL, a citizen of the United States, and a resident of Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Door-Locks; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view showing my improved door-lock in position. Fig. 2 is a side view of the lock with one side piece removed, and Fig. 3 is a transverse sectional view through the middle of the casing.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to that class of locks which may be operated by means of cords from any desired part of a room; and it consists in the improved construction and combination of parts of a lock of this class having a sliding bolt having two cords attached to it for sliding it forward and backward, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates one side of the casing, which is formed with the side flanges, B B, and end flanges, C C, one of which end flanges is lower than the other, and serves, together with a shoulder, D, upon the inner side of one of the side flanges, as a support for the removable side E. Two flanges, F F, extend from the end flanges parallel with the side flanges, and the inner one of these flanges is formed with a longitudinal slot, G, or cut-away portion, while the end flange is cut away to form an aperture, H, at the end of the groove formed by the two flanges.

The sides of the casing are preferably formed with three perforations, I, each, through which perforations the fastening nails or screws may pass, and, furthermore, with two pairs of registering perforations, J J, near the ends of the casing. A bolt, K, slides in the groove formed by the parallel flanges, having one end projecting through the aperture in the end flange when drawn out, and one side of the bolt is provided with a bifurcated arm or lug, L, which projects through the slot or opening formed in one of the parallel guide-flanges. A cord, M, is secured in this bifurcated arm by means of knots N N upon both sides of the arm, and passes over two sheaves, O O, having their trunnions P journaled in the registering two pairs of perforations in the sides of the casing. The ends of the cord pass out through the perforations Q Q in one of the side flanges, near the ends of the same, and pass over guide-pulleys R upon the door, frame or walls to any place in the room from which it is desirable to operate the lock.

It will be seen that by drawing one end of the cord the bolt will be drawn out, and by drawing the other end of the cord the bolt will be drawn in, and the bolt may thus be drawn or withdrawn at will, the lock and casing being either secured upon the door or door-frame, and, being reversible, the casing may be secured at either side of the door, and either at the side of the door or frame, or at the top of the door or frame, the bolt operating equally as well in one position as in the other.

The lock is very simple of construction and cannot easily be broken or get out of order, and the door may be bolted or unbolted at will from any point of the room, the lock remaining with the bolt within the casing when the bolt has been withdrawn, thus avoiding the necessity of holding the cord operating the bolt, so as to prevent the bolt locking, which will be necessary where the bolt has a spring for forcing it out and a cord for drawing it back.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. In a door-lock, the combination of a sliding bolt having a bifurcated projecting arm at its middle, with an operating-cord having its middle secured between the bifurcated parts of the arm by means of two knots, and passing over pulleys in the lock and over guide-pulleys, as and for the purpose shown and set forth.

2. In a door-lock, the combination of a casing, a roller at each end of said casing, a bolt, and a cord having its middle secured to said bolt and having its ends passing over said

pulleys, through each end of the casing, and over pulleys outside of the casing, as shown, and for the purpose set forth.

3. In a door-lock, the combination of a casing having a lower end flange and a shoulder upon the inner side of the same height as the low end flange, and formed with guide-flanges for the bolt of the same height as the shoulder and end flange, a side piece resting upon the guide-flanges and upon the shoulder and end flange, and fastening screws or nails passing through registering perforations in the side pieces of the casing, and securing the said pieces together and to the door or frame, as and for the purpose shown and set forth.

4. In a door-lock, the combination of a casing having a low end flange and a shoulder upon the inner side of a side flange, and having two parallel guide-flanges parallel with the side flanges, and formed with a longitudinal aperture in the inner flange, a bolt sliding between the guide-flanges and out through an aperture in the end flange, and having a bifurcated arm projecting from one side into the aperture in the guide-flange, a removable side piece resting upon the low end flange and upon the shoulder and upon the guide-flanges, and having fastening-screws passing through registering perforations in the side pieces of the casing into the door or frame, pulleys having their trunnions journaled in perforations in the side pieces near the ends, and a cord passing through perforations in one side flange and over the pulleys, having its middle secured in the bifurcated arm by two knots, and passing over guide-pulleys to the destination of the ends, as and for the purpose shown and set forth.

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

M'KENDREE DRISCOLL.

Witnesses:
FRED WEITLAUF,
A. GERNLEIN, JR.