No. 654,579. Patented July 24, 1900.

A. ERICSON.

DOOR BOLT.

(Application filed Oct. 28, 1899.)

(No Model.)

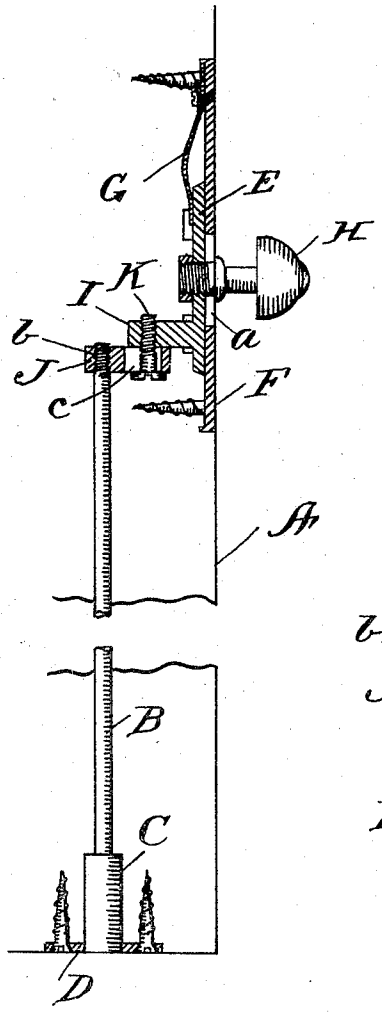


Fig. 1

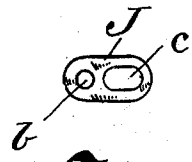


Fig. 2

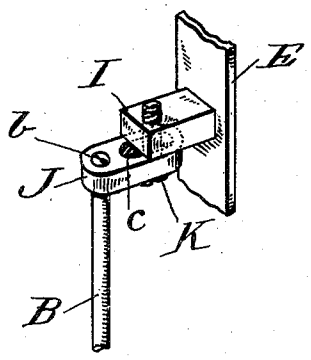


Fig. 3

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UNITED STATES PATENT OFFICE.

AUGUST ERICSON, OF SAN FRANCISCO, CALIFORNIA.

DOOR-BOLT.

SPECIFICATION forming part of Letters Patent No. 654,579, dated July 24, 1900.

Application filed October 28, 1899. Serial No. 735,097. (No model.)

To all whom it may concern:

Be it known that I, AUGUST ERICSON, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Door-Bolts; and I do hereby 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.

This invention relates to bolts for doors; and it has for its objects to produce a bolt which will possess the requisites of strength and durability and which will be especially simple in construction, readily applied, and efficient in operation.

In the character of bolt-lock shown it is an extremely difficult task to bore a hole sufficiently accurate from the lower edge of the door to meet the lock on the sliding latch, especially so if the grain of the wood runs in the direction of the bolt-hole.

Now to obviate this difficulty, or, in other words, to render the device operative even should the position of the hole be thrown out of a true line, is the prime object of my present invention.

The above ends I am enabled to accomplish by the means illustrated in the accompanying drawings, in which—

Figure 1 is a central vertical section of the complete device. Fig. 2 is an elevation of the adjusting-plate, and Fig. 3 is a perspective view showing the adjustable method of connecting the bolt-rod with the sliding latch.

Referring now to the above views by letter, A represents the lines of an ordinary door, which is bored vertically to receive the bolt-rod B of the bolt C, the latter being guided by the ordinarily-formed face-plate D. Adapted to operate this bolt C is the mechanism shown at the upper portion of Fig. 1. It consists of the sliding member E, held firmly against the face-plate F by means of the spring G and connected to the projecting knob H, the latter passing through a rectangular slot *a* in face-plate F.

It will be readily seen that were the upper extremity of the bolt-rod B threaded directly into the lug I, which projects inward from the sliding member E, it would necessitate the boring of a very true hole from the perforation in the face-plate D to this lug I. Now considering that the grain of the wood generally runs in the direction of the hole to be bored it is almost impossible to bore a hole sufficiently accurate to intersect these two points, and in order to provide means to cope with this difficulty I have provided the adjusting-plate J. This adjusting-plate is provided with a threaded perforation *b*, into which the upper extremity of the bolt-rod B is screwed, while the opposite extremity of the adjusting-plate is formed with the oblong slot *c*, through which the headed set-screw K passes and engages with the lug I. It is manifest that by means of this slot *c* the adjusting-plate can be shifted backward or forward or to the right hand or left hand until the bolt-rod is permitted to slide evenly, when the set-screw K is tightened and the adjustment complete.

The construction and arrangement of the several parts of my door-bolt being thus made known, the operation and the advantages of the same will, it is thought, be readily understood.

What I claim, and desire to secure by Letters Patent, is—

A door-bolt consisting of a sliding plate, a bolt-rod leading from said plate and terminating in a bolt-head, a plate secured to the upper extremity of said rod and provided with an oblong slot, and a set-screw adjustably engaging said slot and said plate, substantially as set forth.

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

AUGUST ERICSON.

Witnesses:
GEORGE PATTISON,
L. A. GOLDBECK.