(No Model.)

J. SWIHART.

ALARM LOCK.

No. 456,783. Patented July 28, 1891.

Fig. 1.

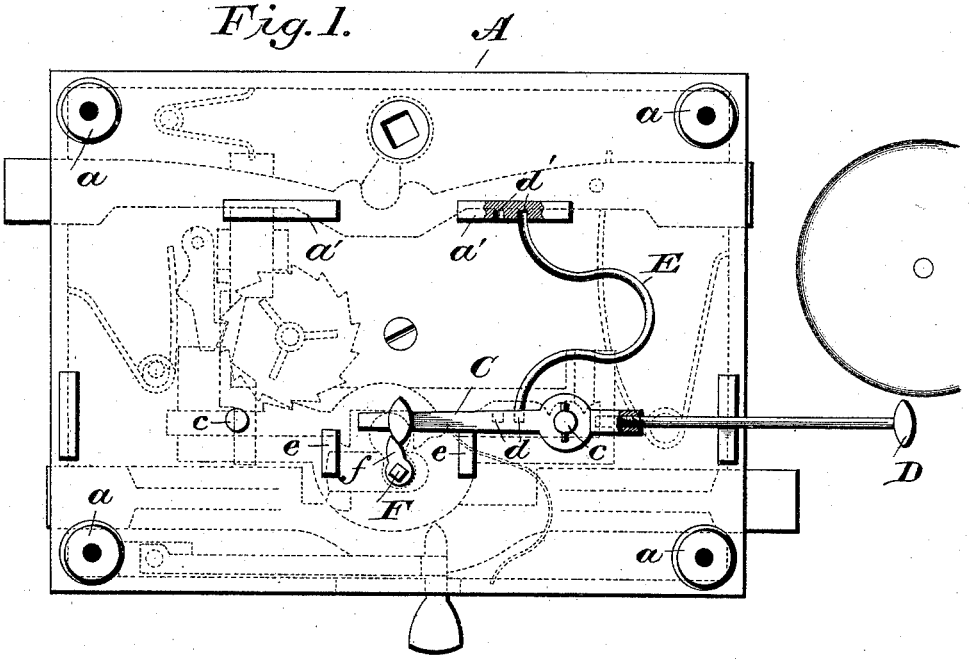
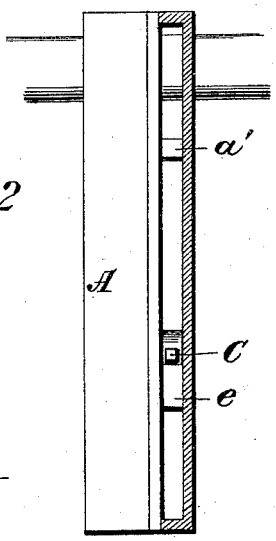


Fig. 2



Witnesses
L. S. Elliott.
C. M. Johnson

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UNITED STATES PATENT OFFICE.

JAMES SWIHART, OF RIOTA, OHIO.

ALARM-LOCK.

SPECIFICATION forming part of Letters Patent No. 456,783, dated July 28, 1891.

Application filed March 12, 1891. Serial No. 384,730. (No model.)

To all whom it may concern:

Be it known that I, JAMES SWIHART, a citizen of the United States of America, residing at Riota, in the county of Preble and State of Ohio, have invented certain new and useful Improvements in Alarm-Locks; 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in alarm attachments for locks.

The object of the invention is to provide a lock with means whereby when the bolt is shot a bell will be sounded, this device being designed more particularly for attachment to my improved lock patented November 25, 1890, and numbered 441,602.

In the accompanying drawings, Figure 1 is a side view showing my improvement applied to a lock, the covering-plate of said lock being removed; and Fig. 2 is an end view, the covering-plate being shown in section.

A designates the lock, which is preferably constructed as shown in my prior patent above referred to, the drawings showing the lock mechanism in dotted lines, the back plate of said lock being provided with projecting portions *a a* and raised blocks *a'*, against which a back plate will contact when held thereon by the screws employed to attach the lock to the door. The projections *a* extend a sufficient distance to allow room for the working parts which lie between these two plates.

To the actuating-spindle F, which throws the lock-bolt, is attached a cam *f*, which engages with projections formed on or attached to the lever C, which carries the bell-hammer D. This lever is provided near one end with a perforation through which passes the lug *c*, and is held upon said lug by a key. The upper edge of the lever is provided with recesses *d d*, within which lies one end of a spring E, the opposite end of said spring engaging with a recess *d'* in the block *a'*. By providing several recesses *d* and *d'* the action of the spring upon the bell-hammer can be varied according to the distance it is placed from its fulcrum. The short end of the lever C is provided with a screw-threaded aperture in which the threaded end of the bell-hammer D is secured. Adjacent to the spindle F are blocks *e e*, against one of which the lever will abut to limit the downward movement thereof and hold the bell-hammer normally out of contact with the bell G.

It will be observed by the construction shown that the parts are reversible. When the actuating-spindle is turned, one end of the lever will be raised, and when released and forced back against the stop *e* the bell-hammer will be sprung in contact with the bell to sound a sharp and effective alarm. It will also be observed that in both locking and unlocking the door an alarm will be sounded.

Having thus described my invention, I claim—

In combination with a lock, a plate therefor having projections *a' a'*, *c c*, and *e e*, a reversible lever C, carrying a bell-hammer, and a spring E, the actuating-spindle being provided with a cam for moving the lever against the action of the spring, substantially as shown, and for the purpose set forth.

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

JAMES SWIHART.

Witnesses:

JAMES ALBERT,

JEHU W. KING.