

No. 660,849.

Patented Oct. 30, 1900.

W. I. ENTWISTLE.  
LOCK STRIKE AND ALARM.

(Application filed June 4, 1900.)

(No Model.)

2 Sheets—Sheet 1.

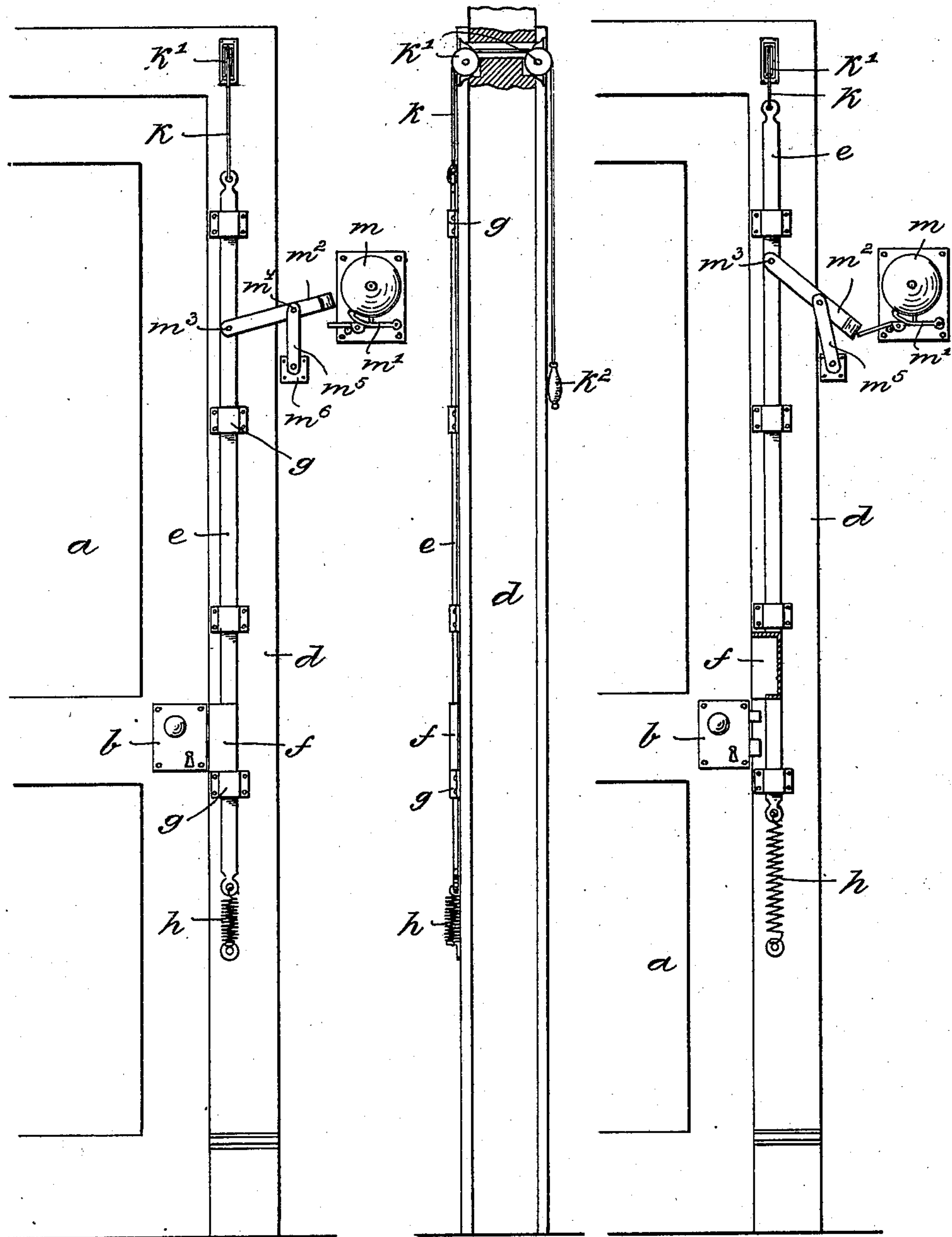


Fig. 1

Fig. 2.

Fig. 3.

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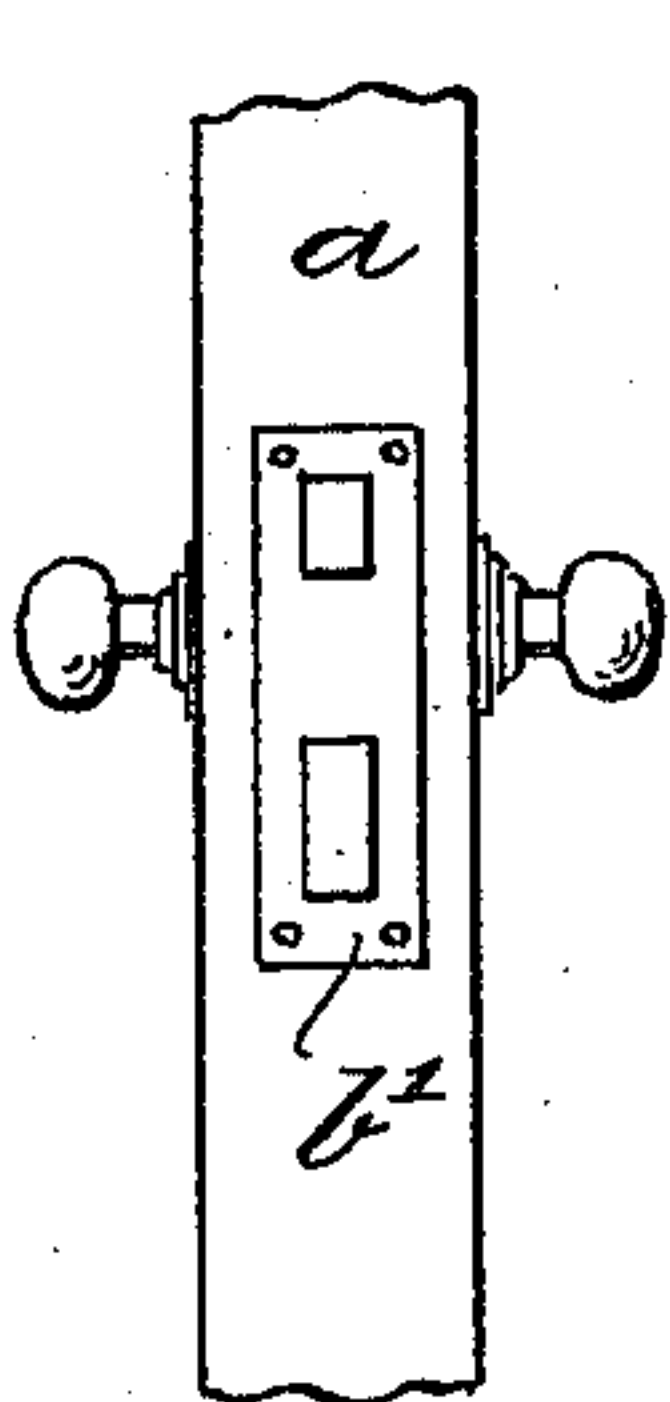


Fig. 8.

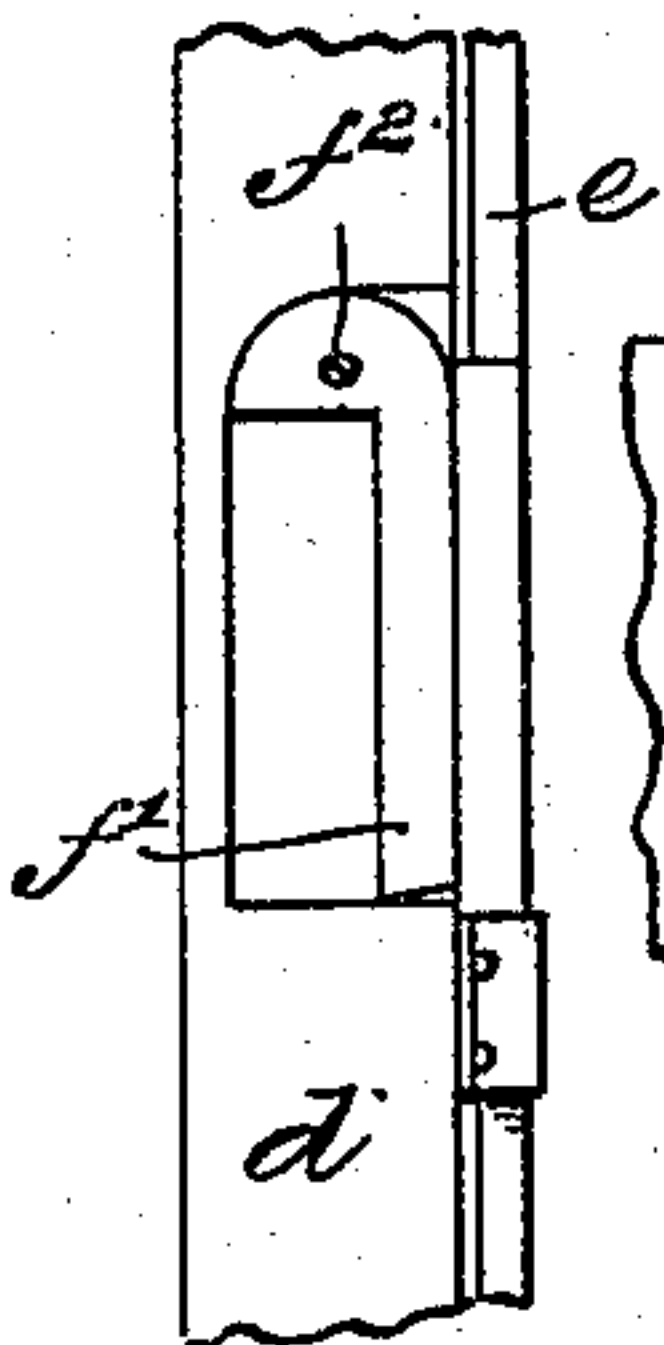


Fig. 9.

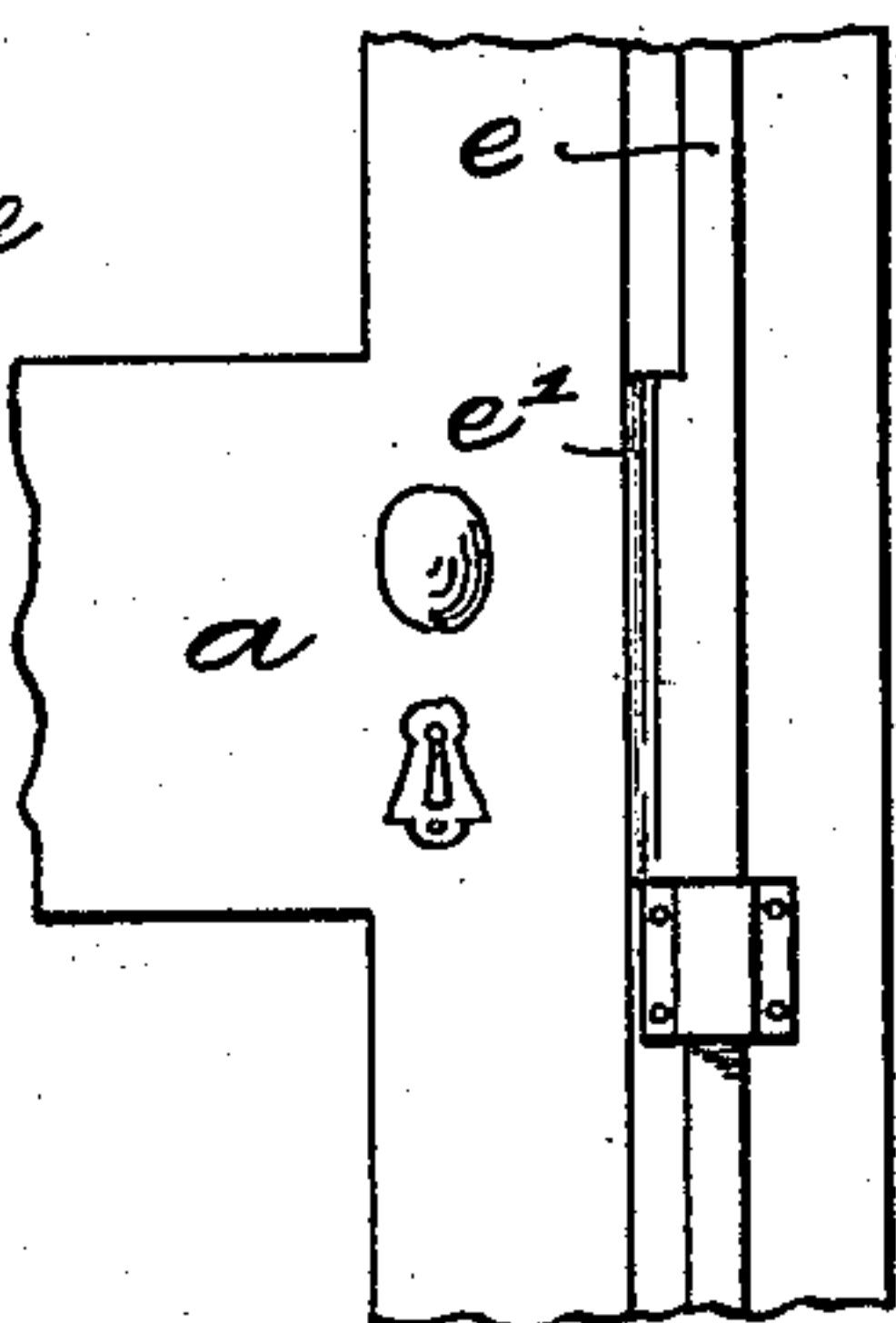


Fig. 10.

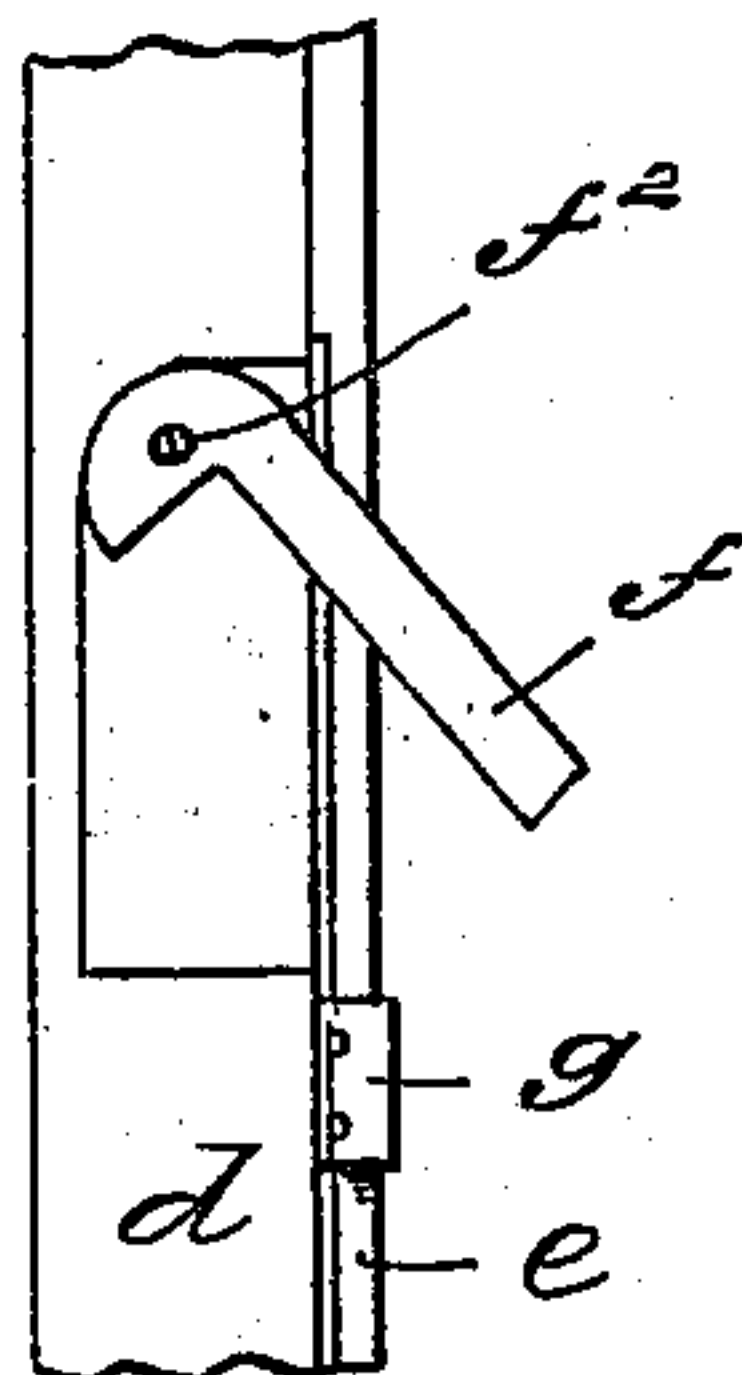


Fig. 11.

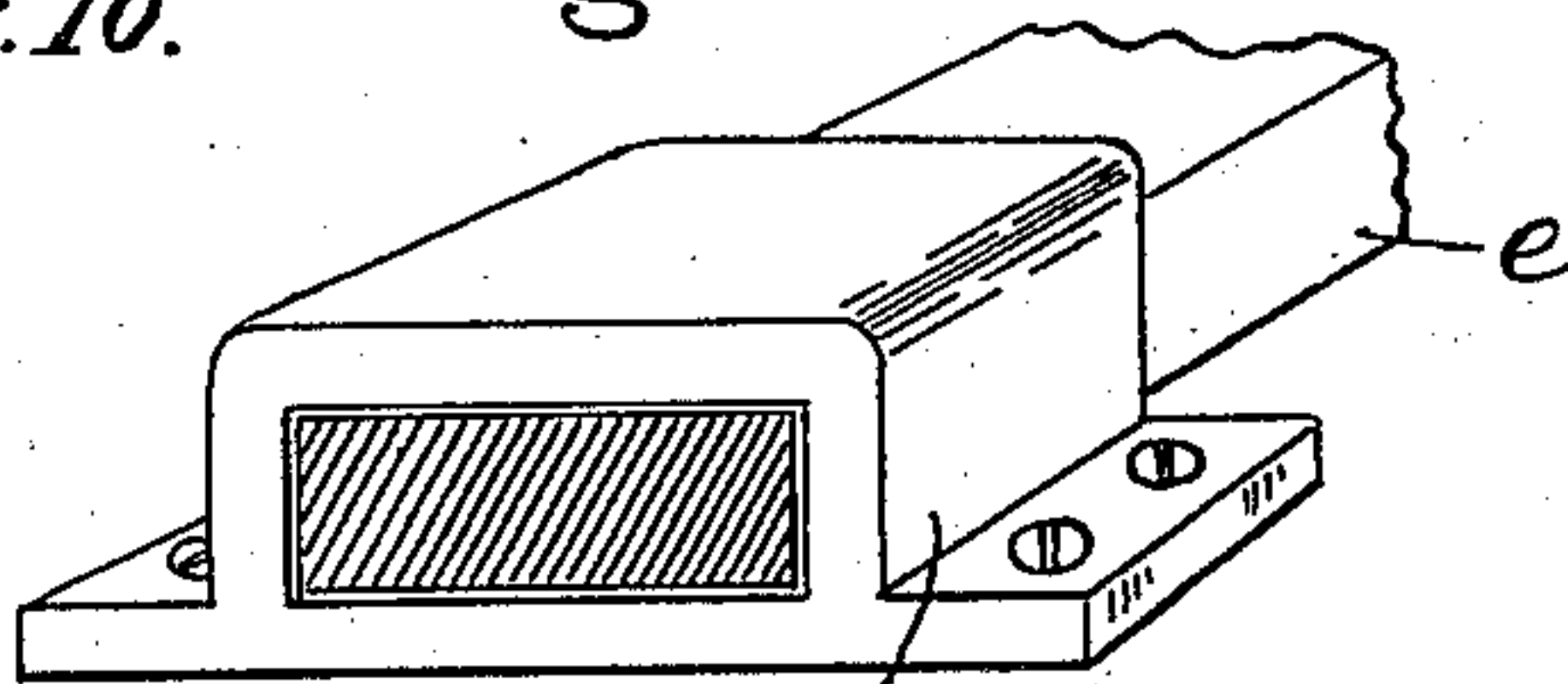


Fig. 7.

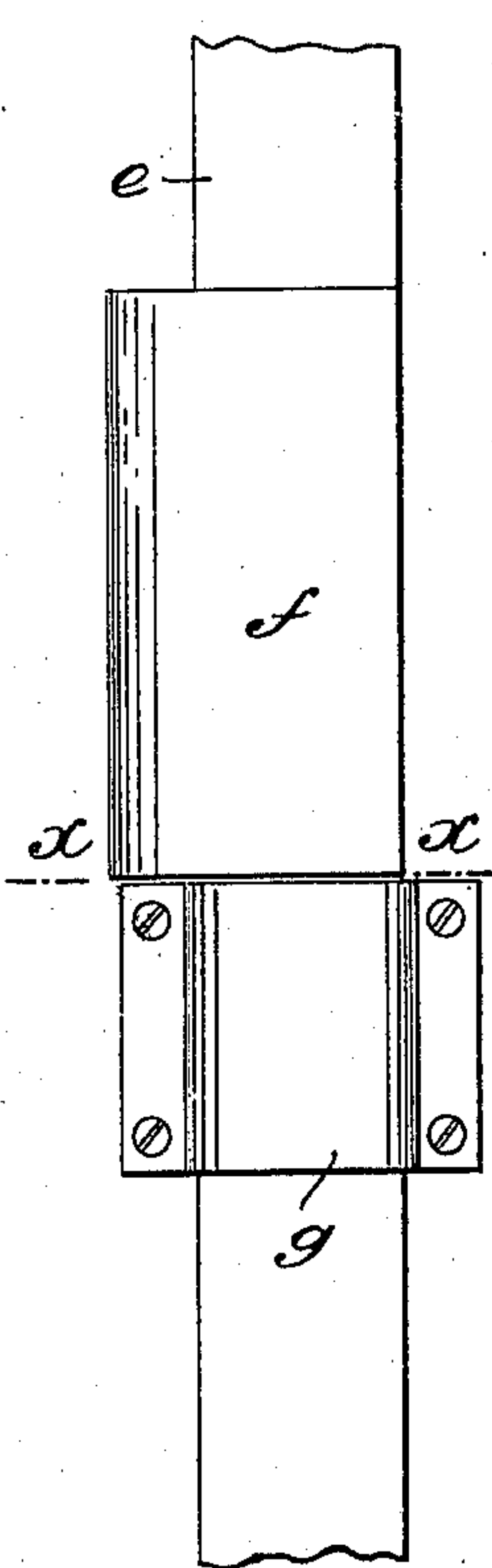


Fig. 4.

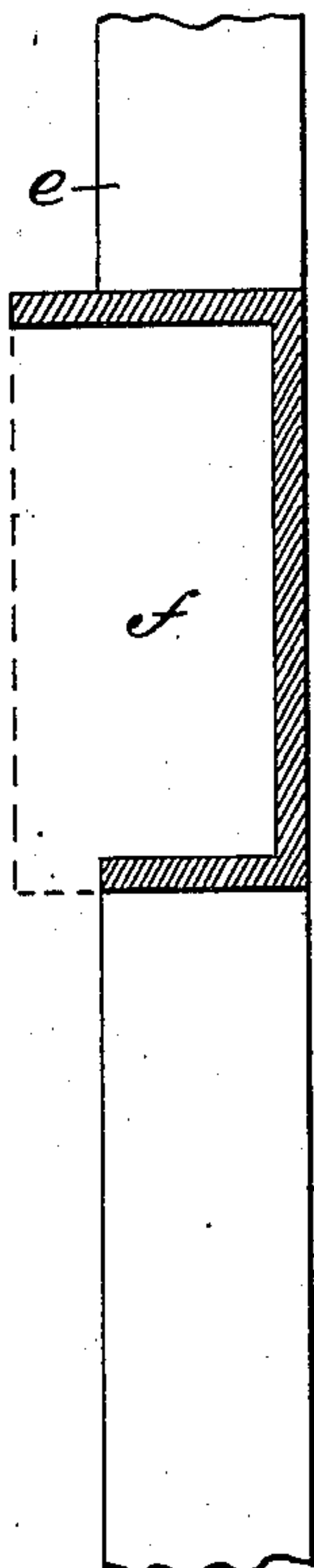


Fig. 5.

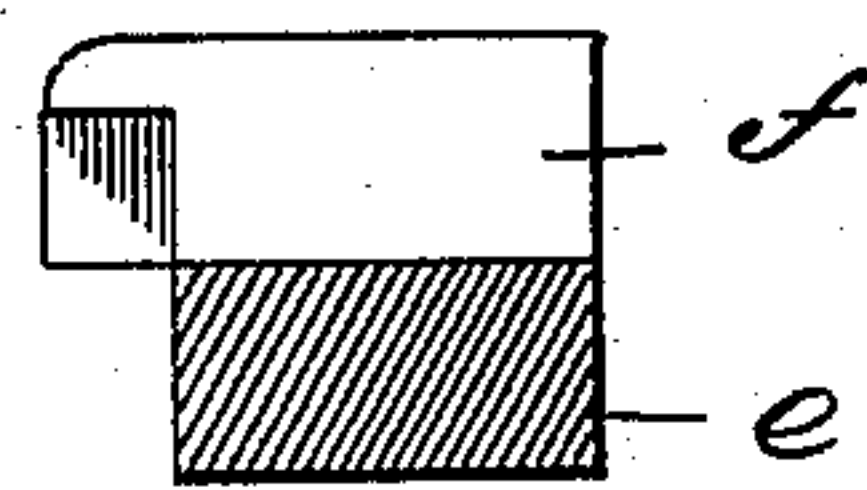


Fig. 6.

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# UNITED STATES PATENT OFFICE.

WILLIAM I. ENTWISTLE, OF PHILADELPHIA, PENNSYLVANIA.

## LOCK STRIKE AND ALARM.

SPECIFICATION forming part of Letters Patent No. 660,849, dated October 30, 1900.

Application filed June 4, 1900. Serial No. 18,948. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM I. ENTWISTLE, a citizen of the United States, residing at the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Lock Strike and Alarm Mechanism, of which the following is a specification.

My invention has relation to a mechanism for releasing door-locks and at the same time operating an audible alarm, particularly to be used in case of fire or other emergencies, and in such connection it relates more particularly to the construction and arrangement of such an apparatus.

The principal object of my invention is to provide a simple and efficient mechanism for quickly opening or unlocking the door of an interior or sleeping apartment, the operation of the mechanism being accompanied by the actuation of a gong or audible signal. Such a mechanism is peculiarly useful in the case of fire or emergency when it is necessary that the doors of all interior rooms shall be almost instantly opened to permit of egress to the hallway.

My invention, stated in general terms, consists of a lock strike and alarm mechanism constructed and arranged in substantially the manner hereinafter described and claimed.

The nature and scope of my invention will be more fully understood from the following description, taken in connection with the accompanying drawings, forming part hereof, in which—

Figure 1 is a front elevational view of a portion of a door and the adjacent jamb with the mechanism for releasing the door-lock and actuating the alarm illustrated in locked or inoperative position. Fig. 2 is an end elevational view of the same. Fig. 3 is a view similar to Fig. 1, the mechanism embodying my invention being illustrated in operative or released position. Fig. 4 is an enlarged detail view in elevation of the releasing-bolt and the movable keeper secured thereto. Fig. 5 is a view similar to Fig. 4, with the keeper illustrated in section. Fig. 6 is a cross-sectional view on the line *xx* of Fig. 4. Fig. 7 is a perspective view, enlarged, of the bolt and one of the channel or guide pieces there-

for. Fig. 8 is an edge view of a door having a mortise-lock. Fig. 9 is a similar view of the jamb and a modified form of keeper for use with mortise-locks, the keeper being illustrated as held in locked position. Fig. 10 is a front elevational and detail view of the door having a mortise-lock, the jamb and keeper and the operating-bolt in locked position; and Fig. 11 is a view similar to Fig. 9, but with the keeper in open or released position.

Referring to the drawings and particularly to Figs. 1 to 7, inclusive, *a* represents a door having on its inner face a lock *b*. On the jamb *d*, adjacent to the free edge of the door, is arranged a long bar or bolt *e*, to which is secured the keeper *f* of the lock *b*. This bolt *e* is adapted to slide along the jamb *d* in the channel or guide pieces *g* and is maintained in depressed or locked position by means of a spring *h*. To the upper end of the bolt *e* is secured a cord or chain *k*, which passes over a pulley *k'*, set in the jamb *d* and through said jamb. The cord or chain *k* depends from the pulley *k'* on the outside of the door-jamb *d* and is provided with a handle or pull *k<sup>2</sup>*. On the wall adjacent to the jamb *d* is located a gong *m*, having a spring-actuated hammer *m'*. In alinement with the operating end of the hammer *m'* is arranged an arm *m<sup>2</sup>*, pivoted, as at *m<sup>3</sup>*, to the bolt *e*. This arm *m<sup>2</sup>* is also pivoted intermediate of its ends, as at *m<sup>4</sup>*, to a link *m<sup>5</sup>*, one end of which is pivoted in a bracket *m<sup>6</sup>*, attached to the wall.

When for any reason it is desirable to release the lock *b* of the door, the cord or chain *k* is depressed by means of the handle *k<sup>2</sup>* from the outside of the door. The bolt *e* is thereby elevated and the keeper *f* of the lock *b* is elevated, as illustrated in Fig. 3, to clear the bolt and latch of the lock *b*. If desired, the door *a* may be provided with springs or weights (not shown) which when the keeper clears the lock will swing the door *a* open.

In the form illustrated in Figs. 8 to 11, inclusive, the door *a* is provided with a mortise-lock *b'*, and in this instance in the edge of the jamb *d* is inserted a swinging keeper *f'*, pivoted, as at *f<sup>2</sup>*, in the jamb. The bolt *e* is cut away, as at *e'*, to permit the keeper *f'* to swing outward when the bolt *e* is raised, as illustrated in Fig. 11.

Having thus described the nature and object of my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a device of the character described, a  
5 shifting keeper, a bolt or bar serving as a carrier and a support for said keeper, means for shifting said bolt or bar, a gong arranged adjacent to the bolt or bar and having a hammer and an arm carried by the bolt or bar and  
10 adapted to actuate the hammer when said

bolt or bar is elevated to release the keeper from the lock, substantially as and for the purposes described.

In testimony whereof I have hereunto set my signature in the presence of two subscribing witnesses.

WM. I. ENTWISTLE.

Witnesses:

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THOMAS M. SMITH.