(No Model.)

O. E. JACOB.

BURGLAR ALARM.

No. 584,782. Patented June 22, 1897.

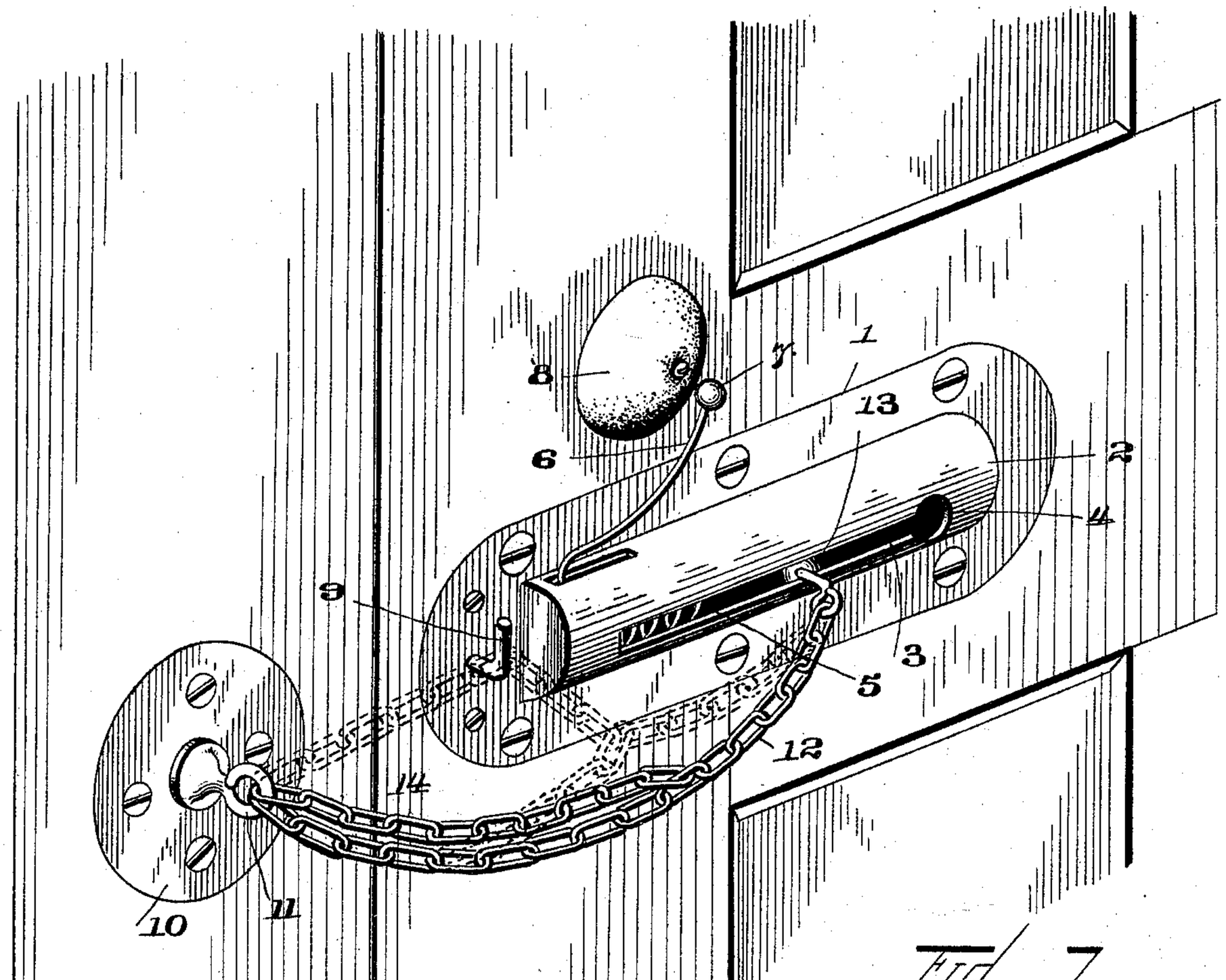

FIG. 1.

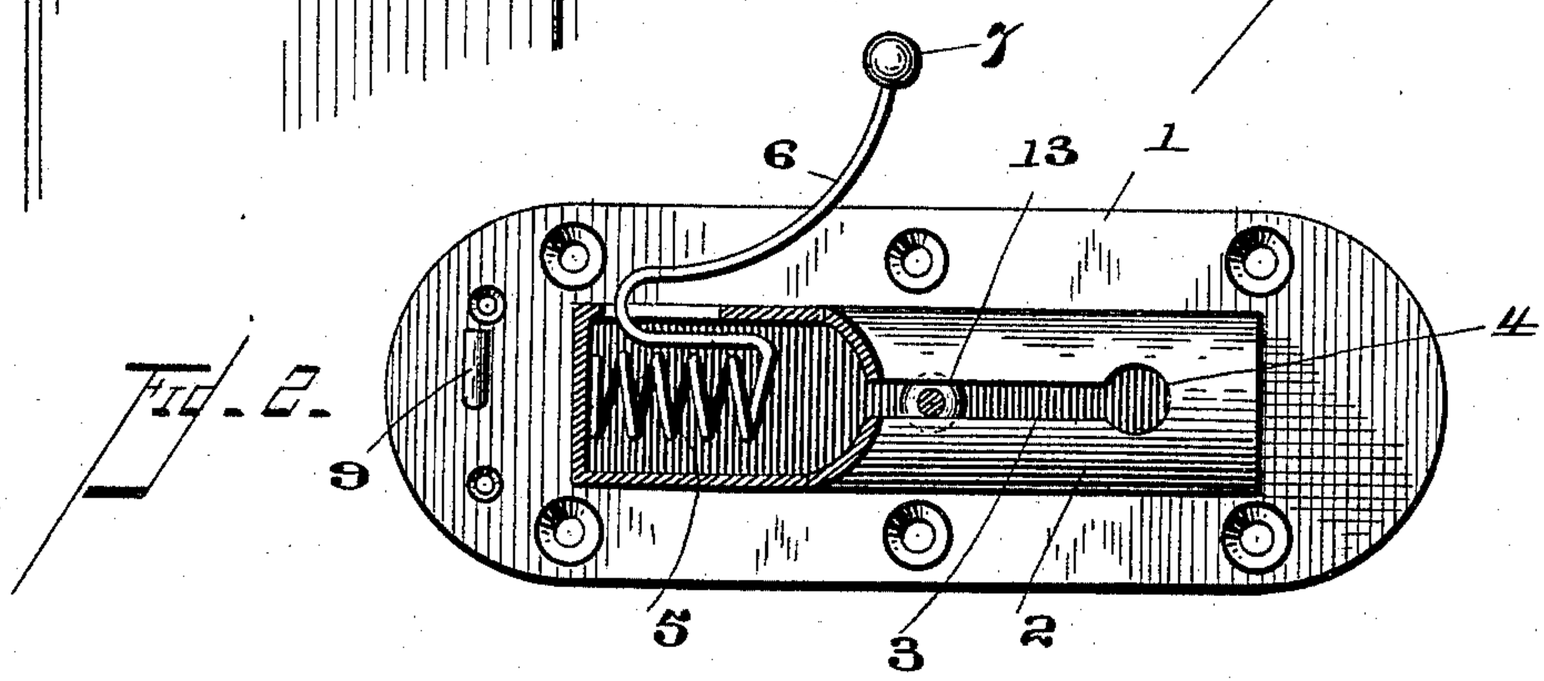

FIG. 2.

WITNESSES

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BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 584,782, dated June 22, 1897.

Application filed March 13, 1897. Serial No. 627,271. (No model.)

To all whom it may concern:

Be it known that I, OSCAR ERHARD JACOB, a citizen of the United States, residing at Toledo, in the county of Lucas and State of Ohio, have invented certain new and useful Improvements in Keyless Door-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.

This invention relates to a chain alarm-lock for doors and other purposes wherein the use of all forms of keys is dispensed with; and it consists, essentially, of a chain carrying a ball on the end thereof engaging a hollow center piece carrying a spring continued outward in the form of a bell-hammer to engage a bell.

The object of the invention is to provide simple and effective means for locking a door entirely closed, or partially opened, if desired, through the medium of mechanism that is operated to give an alarm by improper persons attempting to make an entrance through the door.

In the drawings, Figure 1 is a perspective view of a portion of a door and the adjacent part of the framing, showing the improved lock applied thereto and showing the chain in full lines to permit the door to be slightly opened, and in dotted lines when the door is securely closed thereby. Fig. 2 is a sectional elevation of the improved device.

Referring to the drawings, wherein similar numerals of reference are employed to indicate corresponding parts in the several views, the numeral 1 indicates a metal frame or casing which is adapted to be secured to a door adjacent to the edge thereof, having the tubular chamber 2, with an outer elongated slot 3, provided at one end with an enlarged entrance-opening 4. Within the said tubular chamber 2, at its front end, is mounted a coiled spring 5, whose free end is extended downwardly through the upper part of said chamber and formed into an arm 6, carrying a bell striker or hammer 7 on the free end thereof, which is normally situated close to a bell or gong 8. On the end of the plate 1, also adjacent to the edge of the door, is an outwardly-projecting hook 9. Secured to the casing, preferably in line with and near the plate 1 when the door is closed, is a supporting-plate 10, having a central attaching-eye or other suitable device 11, to which is connected a chain 12 of suitable length and carrying a ball 13 on the free end thereof. To insure additional strength in the said chain, it is made double in form, as at 14, and said double form of the chain also permits a suitable slack, whereby one part may be used to engage the hook 9 and the other part be free to cause an operation of the ball 13, in a manner which will be presently described.

When the door is secured so that it can be slightly opened, the ball 13 is inserted through the aperture 4 in the tubular casing, and the part thereof to which the chain is attached is movable in the elongated slot 3.

In operation when it is desired to secure the door so that it can be slightly opened the ball 13 is placed in the tubular chamber 2, heretofore stated, and when an attempt is made to open the door from the exterior side of the same the said ball 13 moves through the tubular chamber, presses upon or contracts the spring 5, which actuates the arm or support 6, and causes the hammer or striker 7 to engage the bell 8, thereby giving an alarm which will indicate that the door is being tampered with. When it is desired to lock the door closed, one part of the double portion of the chain 12 is caused to engage the hook 9, and by this means a secure lock is provided.

It will be understood that the chain 12 is long enough to permit the ball 13 to be removed from the tubular chamber 2 when it is desired to open the door a greater distance than would be permitted by the chain if the latter was left in contact with said chamber.

It will also be understood that the parts hereinbefore set forth may be suitably ornamented and increased or diminished in size, as may be found convenient and desirable.

Having thus described the invention, what is claimed as new is—

1. In a device of the character set forth, the combination of a ball and chain connected to a stationary support, a tubular chamber to movably and removably receive the ball on the chain and supported on a movable device, a spring within the said chamber extending outwardly in the form of an arm carrying a striker or hammer, and a bell or gong with which said striker or hammer is adapted to

engage, substantially as and for the purposes specified.

2. In a device of the character set forth, the combination of a chain having a ball on the free end thereof, said chain being attached to a stationary support, a tubular chamber carried by a movable support and having suitable openings therein, a spring within the said chamber with which the ball is adapted to contact and having an outwardly-projecting arm carrying a hammer or striker, a bell situated adjacent to the said striker or hammer, and a hook on the front portion of the support of the said tubular chamber, substantially as and for the purposes specified.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

OSCAR ERHARD JACOB.

Witnesses:

CASPER MÜLLER,

R. WOSCHECK.