

1,046,776.

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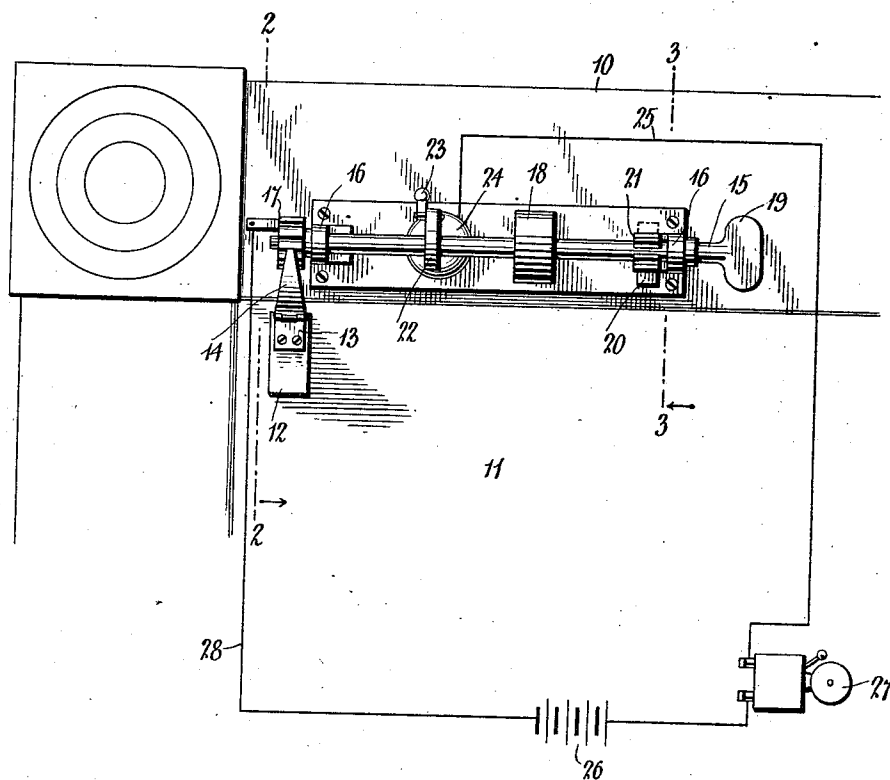
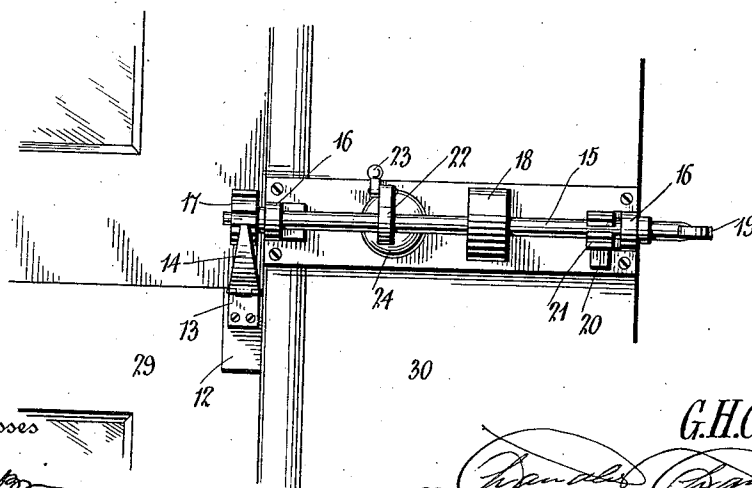


FIG. 4



Witnesses

W. J. Burch.

Inventor*

G. H. Gunderson,

Attorneys

G. H. GUNDERSON.
BURGLAR ALARM.
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Patented Dec. 10, 1912.
2 SHEETS—SHEET 2.

FIG. 2

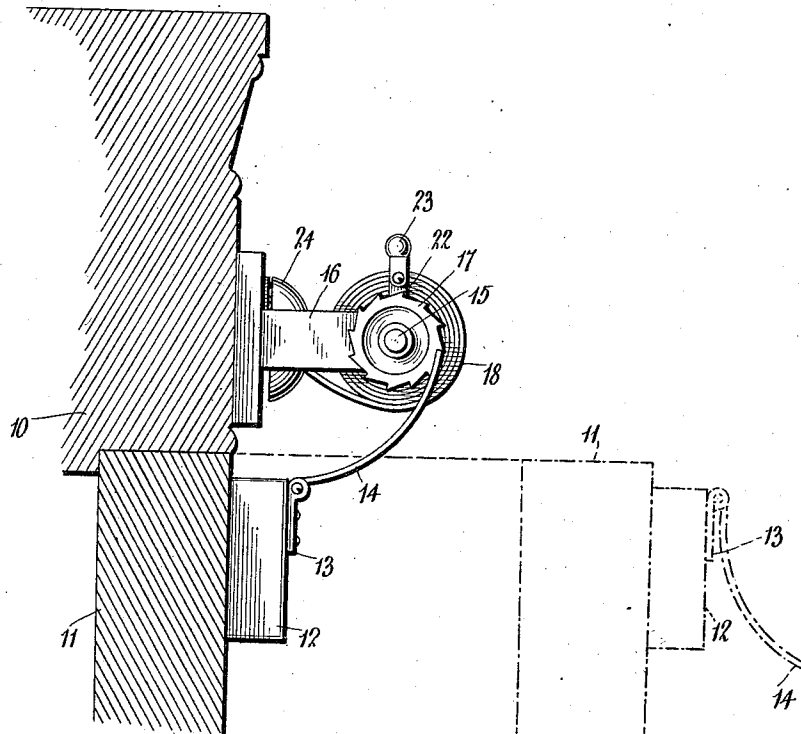
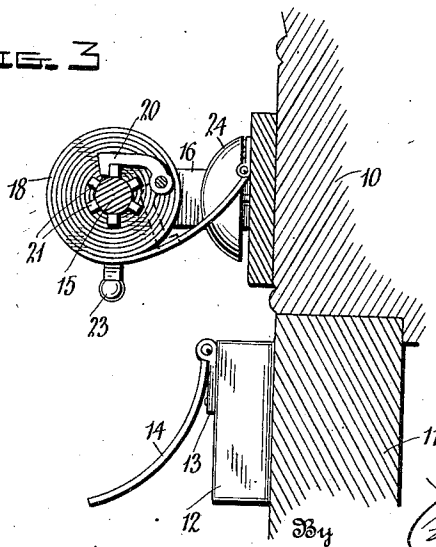


FIG. 3



Witnesses

J. D. Johnson
J. E. Lurch

Inventor

G. H. Gunderson,

Charles *Charles*

Attorneys

UNITED STATES PATENT OFFICE.

GUNDER H. GUNDERSON, OF FAIRCHILD, WISCONSIN.

BURGLAR-ALARM.

1,046,776.

Specification of Letters Patent.

Patented Dec. 10, 1912.

Application filed August 17, 1911. Serial No. 644,647.

To all whom it may concern:

Be it known that I, GUNDER H. GUNDERSON, a citizen of the United States, residing at Fairchild, in the county of Eau Claire, State of Wisconsin, have invented certain new and useful Improvements in Burglar-Alarms; 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 burglar alarms adapted for use in connection with doors or windows to automatically sound an alarm upon the opening of the door or window by an intruder but which may be set in an inoperative position when desired.

Another object of the invention is to provide a burglar alarm comprising novel means to sound an audible signal upon the opening of the door or window when the device is set for operation and which will simultaneously operate an electric alarm disposed at any convenient place removed from the window or door.

With the above and other objects in view the invention consists of certain other combinations and arrangements of parts as will be hereinafter more fully described and claimed, it being a still further object of the invention to provide a device which will not be likely to get out of working order.

In the drawings:—Figure 1 is a front elevation of my improved signal device applied to a door, a fragmentary portion of the door and frame thereof being shown. Fig. 2 is a sectional view of the device on the line 2—2 of Fig. 1. Fig. 3 is a sectional view taken on the line 3—3 of Fig. 1. Fig. 4 is a front elevation of the invention as applied to a window frame, a fragmentary portion of the frame and sash being shown.

Referring to the drawings in detail, there is shown a door frame 10 in which a door 11 is movable and in the application of my improved burglar alarm, a block 12 is attached to the door preferably adjacent the top thereof and has a plate 13 connected thereto and provided with a pointed pawl 14 which is hinged to the plate and adapted to fall by gravity upon the block 12. A shaft 15 is rotatably mounted in a horizontal position in bearing brackets 16 projecting from the door frame over the door and carries at one end a ratchet wheel 17 adapted to be engaged by the hinged pawl 14 so as to anchor

the shaft against movement in one direction when the door is in a closed position.

A coiled spring 18 is connected to the shaft and to the door frame and adapted to be wound upon the shaft by a key 19 formed at the opposite end of the shaft relative to the ratchet wheel, the said pawl permitting the winding of the spring but preventing unwinding thereof, and the said bracket 16 adjacent to the key 19 carries a pivotally mounted operating dog 20 adapted to engage in a series of teeth 21 formed upon the shaft so as to hold the shaft from rotation when it is desired to use the door and hold the alarm inoperative. An arm 22 is secured to the shaft 15 intermediate its ends and carries a pivotally mounted striker arm 23 adapted to contact with a bell or other electrically conducting gong 24 secured to the door frame so that when the dog 20 is disengaged from the teeth 21 and pawl 14 is engaged with the teeth of the ratchet wheel and the door is opened, the said pawl will be disengaged and will drop by gravity and thereby permit the shaft to unwind under the action of the coiled spring to rotate the striker arm in contact with the bell or gong 24 thereby sounding an alarm. If desired, to sound an alarm at a point distant from the door, a conductor wire 25 is connected to the striker base 24 and is included in a circuit with a suitable source of electrical energy 26 and an alarm 27 positioned at any convenient point in connection with a conductor wire 28 which is operatively supported adjacent a bracket 16 to contact with the ratchet wheel 17 thereby intermittently closing the circuit through the shaft 15 as the striker arm contacts with the bell or gong 24.

In the application of the alarm to a window, the block 12 and pawl 14 are connected to the upper portion of the sash 29 and the shaft supported upon the window frame 30 so that upon the raising of the window, the pawl will be disengaged from the ratchet wheel and the alarms will sound in a similar manner.

From the foregoing description in connection with the accompanying drawings, it will be seen that I have provided an alarm bell in which an electrical and mechanical signal will simultaneously operate by the opening of the door or window so that the alarm will be sounded in a room in which the entrance is attempted and also

to another part of a house as for instance in calling for assistance, thereby enhancing the value of the device.

I claim:—

5 In a burglar alarm device, the combination with a stationary member and a movable member; of a hinged pawl carried by the movable member, a shaft rotatably mounted upon the stationary member, a ratchet wheel at one end of the shaft
10 adapted by engagement with the pawl to hold said shaft against rotation in one direction, a spring connected to the shaft and

stationary support and adapted to be wound upon the shaft, a striker arm carried by the shaft and a gong engaged by said arm to sound an alarm by rotation of the shaft under the action of the spring upon movement of the movable member to disengage the pawl from the ratchet wheel. 15 20

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

GUNDER H. GUNDERSON.

Witnesses:

HENRY R. GILBERTSON,
PETER HOLMAN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."