

F. L. HOLMES.  
BURGLAR ALARM.  
APPLICATION FILED AUG. 7, 1909.

975,952.

Patented Nov. 15, 1910.

Fig. 1.

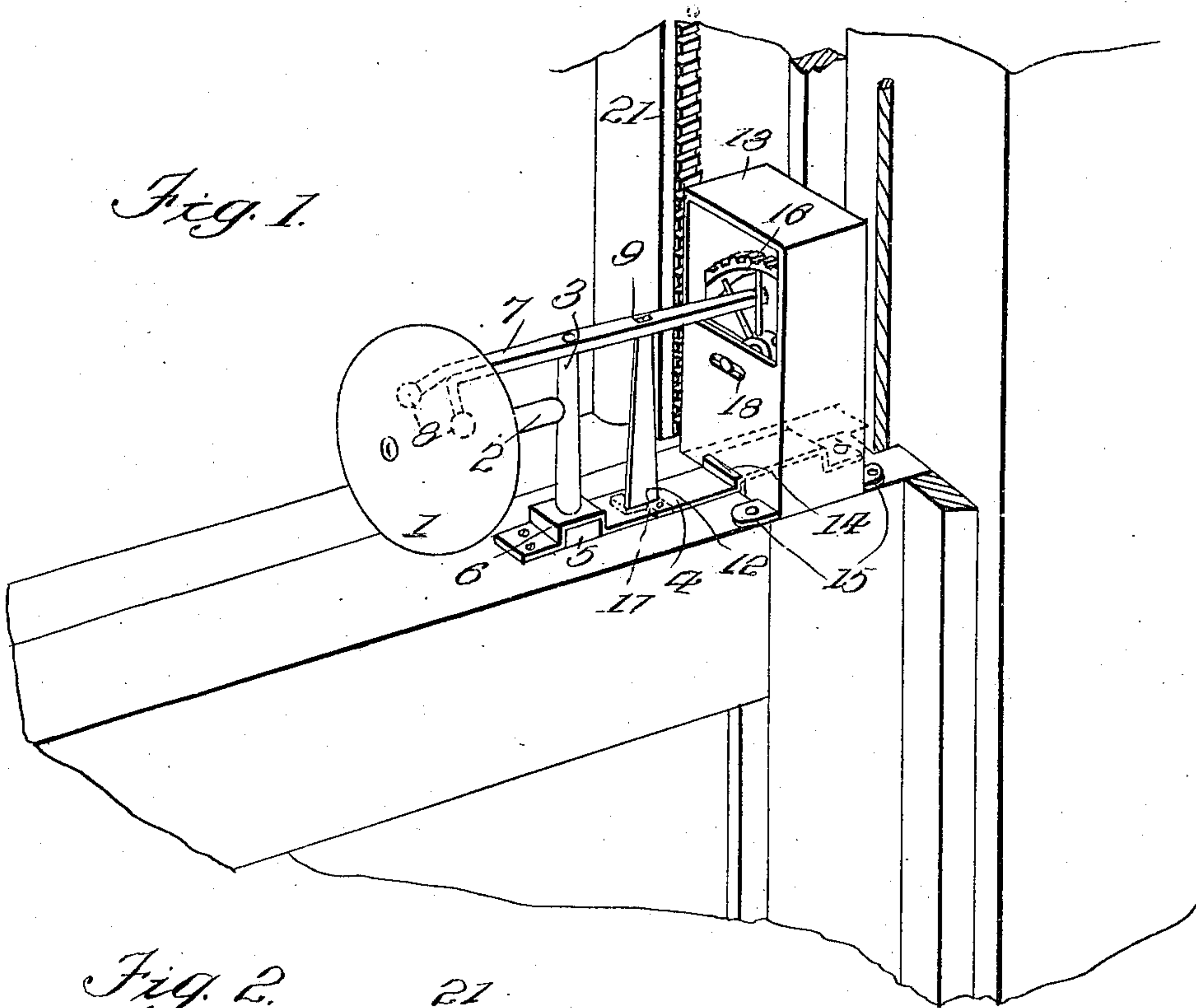


Fig. 2.

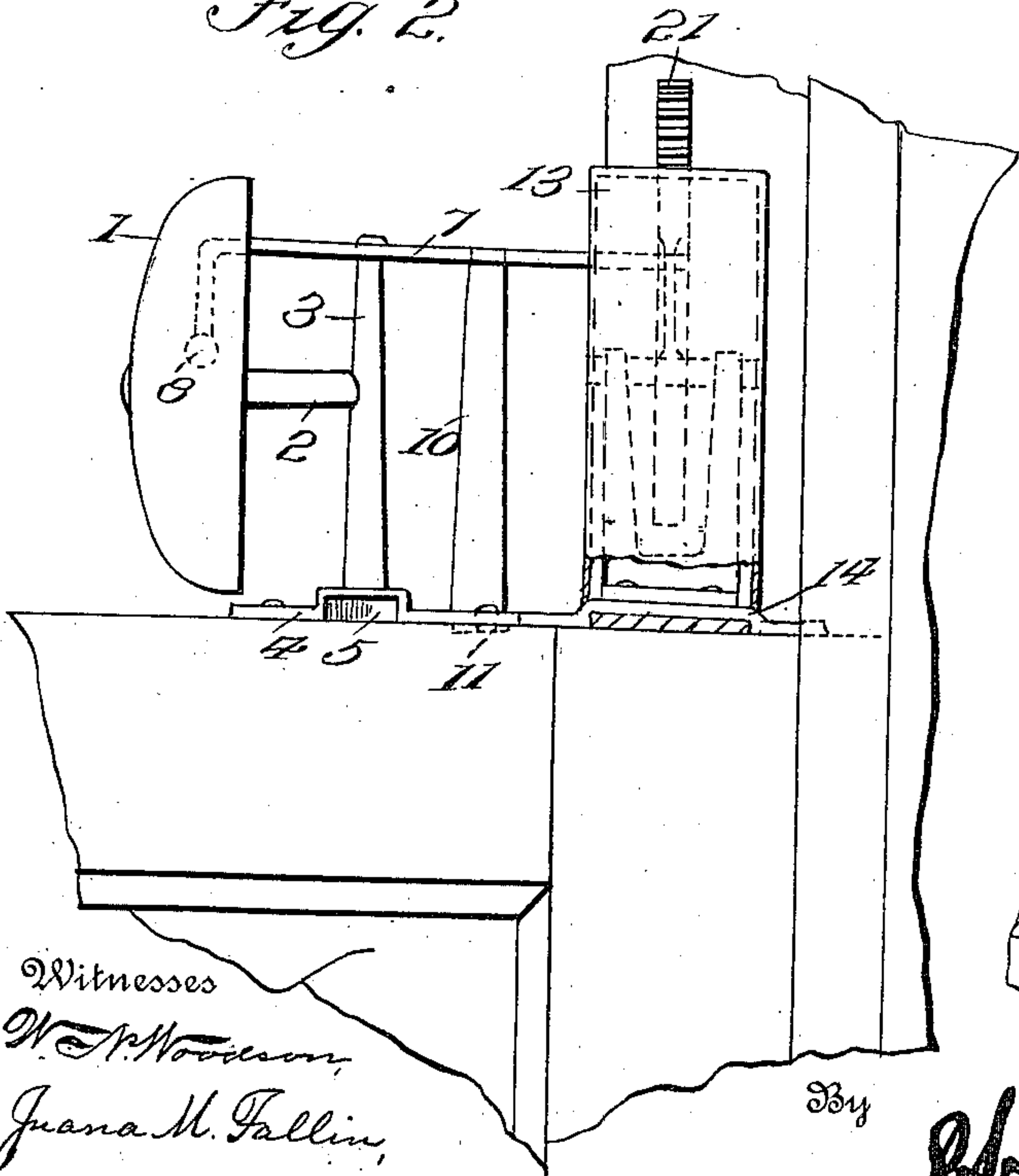
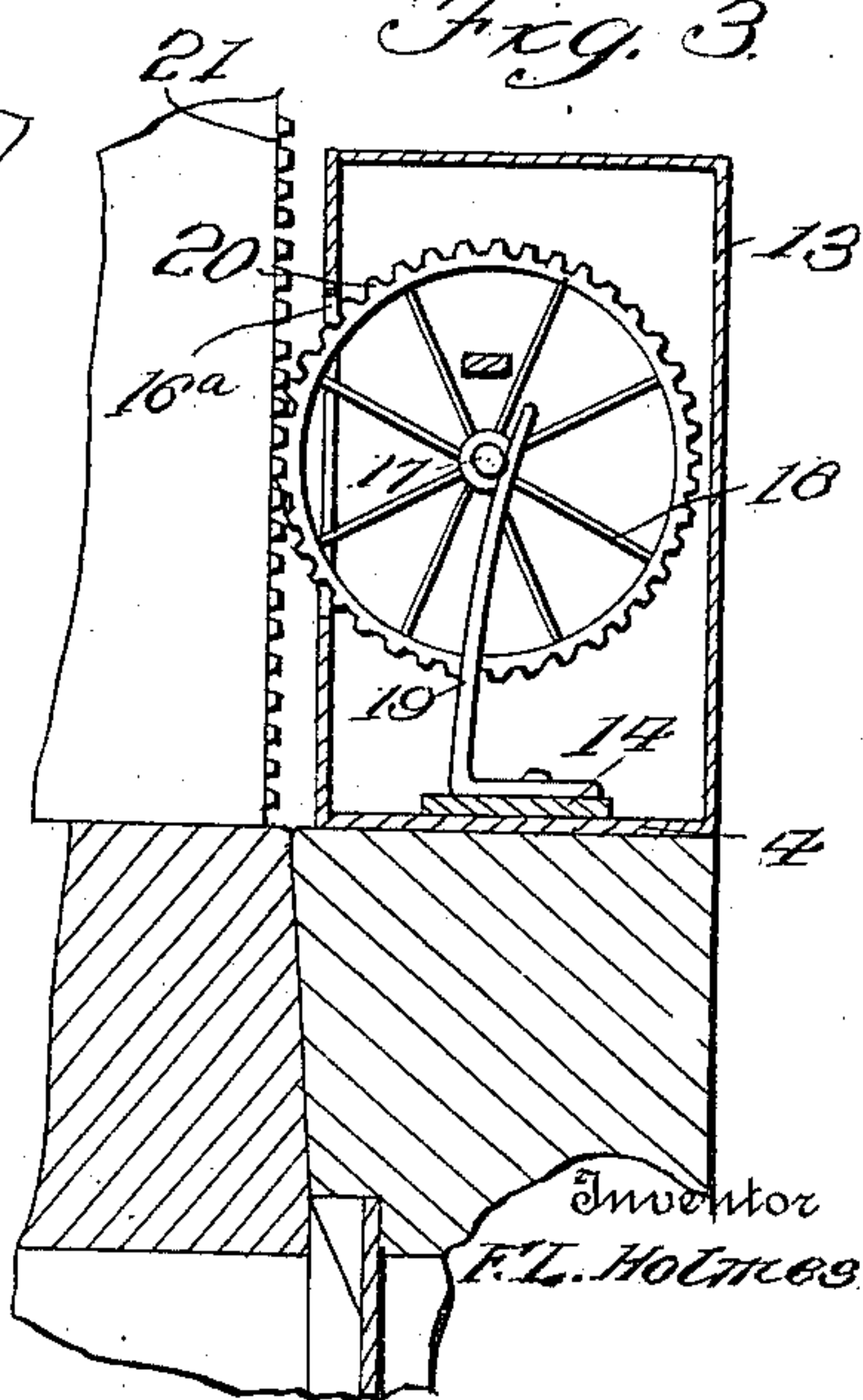


Fig. 3.



Witnesses  
W. P. Woodson,  
Juana M. Fallin,

By

*F. L. Holmes*  
Attorneys



# UNITED STATES PATENT OFFICE.

FRANKLIN L. HOLMES, OF SMETHPORT, PENNSYLVANIA.

## BURGLAR-ALARM.

975,952.

Specification of Letters Patent.

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*To all whom it may concern:*

Be it known that I, FRANKLIN L. HOLMES, a citizen of the United States, residing at Smethport, in the county of McKean and State of Pennsylvania, have invented certain new and useful Improvements in Burglar-Alarms, of which the following is a specification.

This invention comprehends certain new and useful improvements in devices for sounding an alarm upon the unauthorized or surreptitious opening of window sashes, cash drawers, and the like, and the invention has for its primary object, a simple, durable and efficient construction of burglar alarm of this type which will embody the characteristics of neatness in appearance, cheapness in the cost of manufacture, simplicity and durability, and which will be positive and otherwise effective in operation.

With this main and other objects in view as will more fully appear as the description proceeds, the invention consists in certain constructions, arrangements and combinations of the parts that I shall hereinafter fully describe and claim.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawings in which:

Figure 1 is a perspective view illustrating one application of my improved burglar alarm; Fig. 2 is a side elevation thereof; and, Fig. 3 is a vertical longitudinal section.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawings by the same reference characters.

In the present embodiment of the invention, which is shown as applied to the meeting rails of window sashes, the invention consists essentially in a gong, strikers therefor, and actuating devices for the strikers, all of which are arranged to be carried by one of the sashes, the actuating device embodying a rotary element or wheel adapted to be rotated by and upon the opening movement of the other sash.

In the drawing, the numeral 1 designates the gong which may be of any desired size or design, the same being secured in any desired way on a bracket 2 formed on or secured to an upright post 3 designed to be supported on the upper edge of the meeting rail of a lower sash. In the present embodiment

of the invention, the post 3 is secured to the meeting rail by a base plate 4, the post having an annular enlargement or head 5 at its lower end around which engages a struck up flange 6 formed on the base plate. The base plate is secured by screws or other fastening devices to the meeting rail as clearly illustrated in the drawing.

A clapper actuating or carrying arm 7 is detachably mounted upon the upper arm of the post 3. This arm which is in the nature of a trip, is provided at one end with depending and diverging fingers 8 formed at their extremities with the clapper heads and mounted within the gong 1 on opposite sides of the bracket 2 so that as the trip arm 7 is actuated, the clappers will strike the gong. The oppositely extending end of the trip arm 7 is formed with a slit 9 adapted to receive the upper end of a vertically disposed spring which is secured at its lower end to the base plate 4. In the present instance, the means attaching the spring 10 in place consists of oppositely extending lugs 11 formed on the lower extremities of the spring and extending underneath the base plate 4 after the spring has been passed upwardly through a slot 12 in the base plate so as to secure the laterally turned lower extremity of the spring between the base plate and the meeting rail. A casing 13 is mounted contiguous to the spring 10, said casing in the present embodiment of the invention being formed with bottom openings through which a slightly raised portion 14 of the base plate extends so as to secure the casing in place. If desired, in addition to this means of attaching the casing, the latter may be provided with outstanding ears 15 secured to the meeting rails by screws or other fastening devices. A rotary element or wheel 16 is mounted within the casing 13, on a horizontally extending spindle or shaft 17 journaled in horizontally disposed slots 18 formed in the sides of the casing and a spring 19 is formed with two oppositely extending arms bearing with tension on two ends of the shaft 17 on opposite sides of the wheel 16, the said spring being secured to the bottom of the casing in place at its lower end in any desired way. The wheel 16 projects out through a vertical slot 16<sup>a</sup> formed in one wall of the casing and may be provided with teeth 20 designed to mesh with a vertically disposed rack 21 secured to the adjacent rail of the upper sash. The



trip arm projects into the casing in between the spokes of the wheel 16 as clearly illustrated in the drawing. Obviously the periphery of the wheel 20 may directly engage the rail of the upper sash so as to operate by frictional engagement only, in which event the wheel may be provided with a rubber or similar rim to secure the proper frictional contact.

From the foregoing description in connection with the accompanying drawing, it is believed that the operation of my improved burglar alarm is obvious. In the practical operation or use of the device, the base plate 4 is secured to the meeting rail of the lower sash, so as to secure the post 3, spring 10 and casing 13 in proper position, one end of the trip arm 7 extending in between the spokes of the wheel 16 as above stated. The parts 21 are so arranged that the periphery of the wheel 16 will directly engage the adjacent rail of the upper sash or the rack 21 secured thereto, and obviously then when either of the sashes is moved in an unauthorized attempt to open the window, the wheel 16 will turn and the spokes thereof will successively strike the trip arm 7 which carries the clappers so that the latter will strike the gong and sound the alarm.

It will be seen that the device is composed of comparatively few parts that may be easily and cheaply manufactured and readily assembled. In order to render the device inoperative, it is only necessary to detach the trip arm 7 whereupon either of the sashes may be moved without sounding any alarm upon the gong.

While I have shown my device as applied to a window sash, it is obvious that it is equally applicable for use with cash or other locked drawers or the like, that it may be secured to any side of the window or other movable part by merely reversing the position of the base plate and concomitant parts.

It is to be understood that the invention is not limited to the exact construction, arrangement and proportion of the parts herein shown and described, as various changes may be made in the details of construction and relative arrangement of the

parts without departing from the scope of the invention as defined by the appended claims.

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

1. A burglar alarm, embodying a casing formed with slots, a gong, a support for the casing and gong, a shaft mounted in said slots, a trip wheel mounted on said shaft, a trip arm arranged to strike the gong and adapted to be actuated by engagement with the trip wheel, and a spring secured in the casing and formed with two arms bearing on the shaft on opposite sides of said wheel with a tendency to move the shaft toward one end of the slots, and means for turning said wheel upon the movement of said support.

2. A burglar alarm, comprising a post provided with a laterally extending bracket, a gong secured to the bracket, a trip arm mounted upon the upper end of said post, a vertically disposed spring secured to said trip arm, means for holding said spring in place, a casing, means for fastening said casing in place, and a wheel mounted to turn in said casing and protruding therefrom, said wheel embodying spokes adapted to engage the trip arm and actuate the same.

3. A burglar alarm, comprising a base plate, a post provided with a head, and the base plate being formed with a flange engaging said head, the post being provided with a bracket, a gong secured to said bracket, a trip arm mounted on one end of said post, the base plate being formed with a slit, a spring formed at one end with a lug taking through and underneath said slit, said spring engaging at its other end the said trip arm, a casing, the base plate being formed with a raised portion extending over the bottom of the casing to secure the same in place, and a rotary element mounted in said casing and connected to the trip arm.

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

FRANKLIN L. HOLMES. [L. s.]

Witnesses:

J. S. MCCARTHY,

WILLIAM F. SPECHT.