

(No Model.)

W. C. McLELLAN.  
BURGLAR ALARM.

No. 538,789.

Patented May 7, 1895.

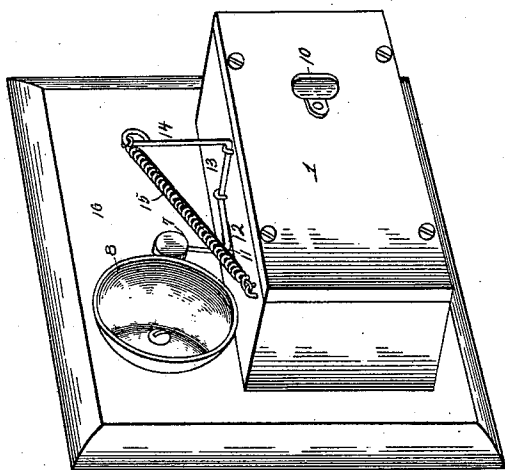


Fig. 1-

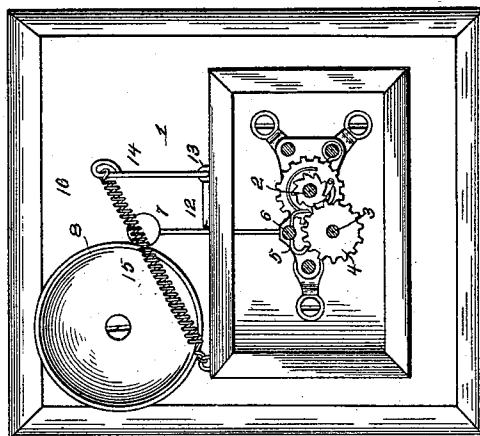


Fig. 2-

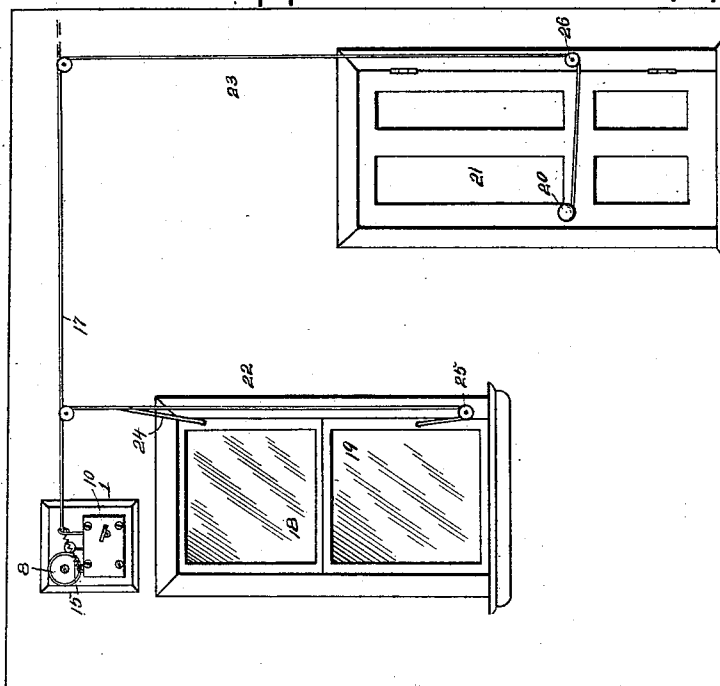


Fig. 3-

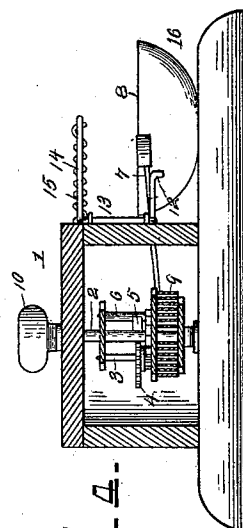


Fig. 4-

Inventor

William C. McLellan,

By his Attorneys.

Cash & Co.

Witnesses  
Thos. W. Riley  
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Fig. 1-

# UNITED STATES PATENT OFFICE.

WILLIAM C. McLELLAN, OF SOUTH PITTSBURG, TENNESSEE, ASSIGNOR OF ONE-HALF TO SHELVEY LOVELACE AND ANDREW J. JENKINS, OF SAME PLACE.

## BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 538,789, dated May 7, 1895.

Application filed October 5, 1894. Serial No. 525,027. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM C. McLELLAN, a citizen of the United States, residing at South Pittsburg, in the county of Marion and State of Tennessee, have invented a new and useful Burglar-Alarm, of which the following is a specification.

The invention relates to improvements in burglar alarms.

The object of the present invention is to improve the construction of burglar alarms and to provide a simple and inexpensive one which is adapted to be readily connected with a number of windows and doors, and capable of sounding an alarm in event of the opening of a sash of a window, or a door.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

In the drawings, Figure 1 is an elevation showing a burglar-alarm constructed in accordance with this invention and connected with a door and a window. Fig. 2 is a detail perspective view of the burglar-alarm. Fig. 3 is a longitudinal sectional view of the same. Fig. 4 is a transverse sectional view.

Like numerals of reference indicate like parts in all the figures of the drawings.

1 designates a casing, which contains the alarm mechanism, the latter being of any suitable construction, and having a spring-impelled arbor 2, connected by gearing with an arbor 3; and on the arbor or shaft 3 is fixed a tappet-wheel 4, which is engaged by oppositely-disposed tappet-arms 5, of a shaft or arbor 6, carrying an oscillating hammer 7, arranged to engage a bell 8. The arbor 2 is connected in the ordinary manner with a barrel spring 9, and is provided with a handle 10 for winding up the spring.

The oscillating hammer extends through a slot 11 of the casing, and it is retained out of operation to prevent a ringing of the bell, by means of an L-shaped arm 12 of a rock-shaft 13. The arm 12 is arranged at the inner end of the rock-shaft, and swings in the same general direction as the direction of the oscillations of the bell-hammer, and the rock-shaft is provided at its outer end with an arm 14,

to which is connected a spring 15 for normally holding the inner hammer-engaging arm in a horizontal position for engaging the hammer. The oscillating hammer is arranged at a slight inclination, and when the inner arm 12 is swung upward, by means hereinafter described, it separates itself from the hammer and frictionally engages the same until its upward movement is sufficient to free the hammer and permit the same to oscillate, whereby injury to the hammer or to the arm of the rock-shaft is avoided.

When the bell-hammer and the arm 12 of the rock-shaft are in upright positions, as illustrated in Fig. 4 of the accompanying drawings, they lie in diverging planes, the point of intersection or meeting of the planes being at the upper face of the top of the casing where the arm 12 contacts squarely with the bell-hammer, when the said arm 12 is in a horizontal position, as illustrated in Figs. 2 and 3 of the accompanying drawings. This arrangement causes the arm 12 to separate itself from the bell-hammer in swinging upward, and to approach the bell-hammer gradually when swung downward.

The back 16 of the casing is extended vertically to form a support for the bell 8; and the outer arm of the rock-shaft is connected, by a cord 17, wire or the like, with the upper and lower sashes 18 and 19 of a window, and the knob 20 of a door 21, and may be extended and similarly connected with a series of windows and doors, and is arranged on suitable pulleys. It has branches 22 and 23, extending to the window and the door, and it will be apparent that if the knob is turned, or the upper and lower sashes moved, the bell will be rung. The branch 22 is connected by a portion 24 directly to the upper sash, and it extends around a lower pulley 25, and its adjacent terminal is attached to the lower sash. The other branch extends around a pulley 26 of the door-frame and is connected with the knob, as before described.

It will be seen that the alarm is simple and comparatively inexpensive in construction, that it is adapted to be readily applied to doors, windows, and the like, and that it is capable of sounding a bell if such doors or windows be tampered with.

Changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

What I claim is—

In a burglar alarm, the combination of a casing having a horizontal top surface, a bell, an upwardly-extending bell-hammer capable of oscillation and arranged to engage the bell and disclosed at a slight outward inclination, mechanism arranged within the casing for oscillating the bell-hammer, a rock-shaft journaled at the top of the casing and provided at its outer end with an arm and having at its inner end an L-shaped arm arranged to swing in a plane in a line with the direction of oscillation of the bell-hammer, the bell-hammer and the L-shaped arm, when in up-

right positions, lying in diverging planes, whereby the engaging end of the L-shaped arm in swinging downward gradually approaches the plane of oscillation of the bell-hammer, and is adapted to frictionally engage and retard the latter before positively contacting therewith, a spring connected with the outer arm of the rock-shaft for holding the inner arm in engagement with the hammer, and connections designed to extend to doors and windows, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WILLIAM C. McLELLAN.

Witnesses:

JAS. F. FERGASON,  
CHAS. G. STEWART.