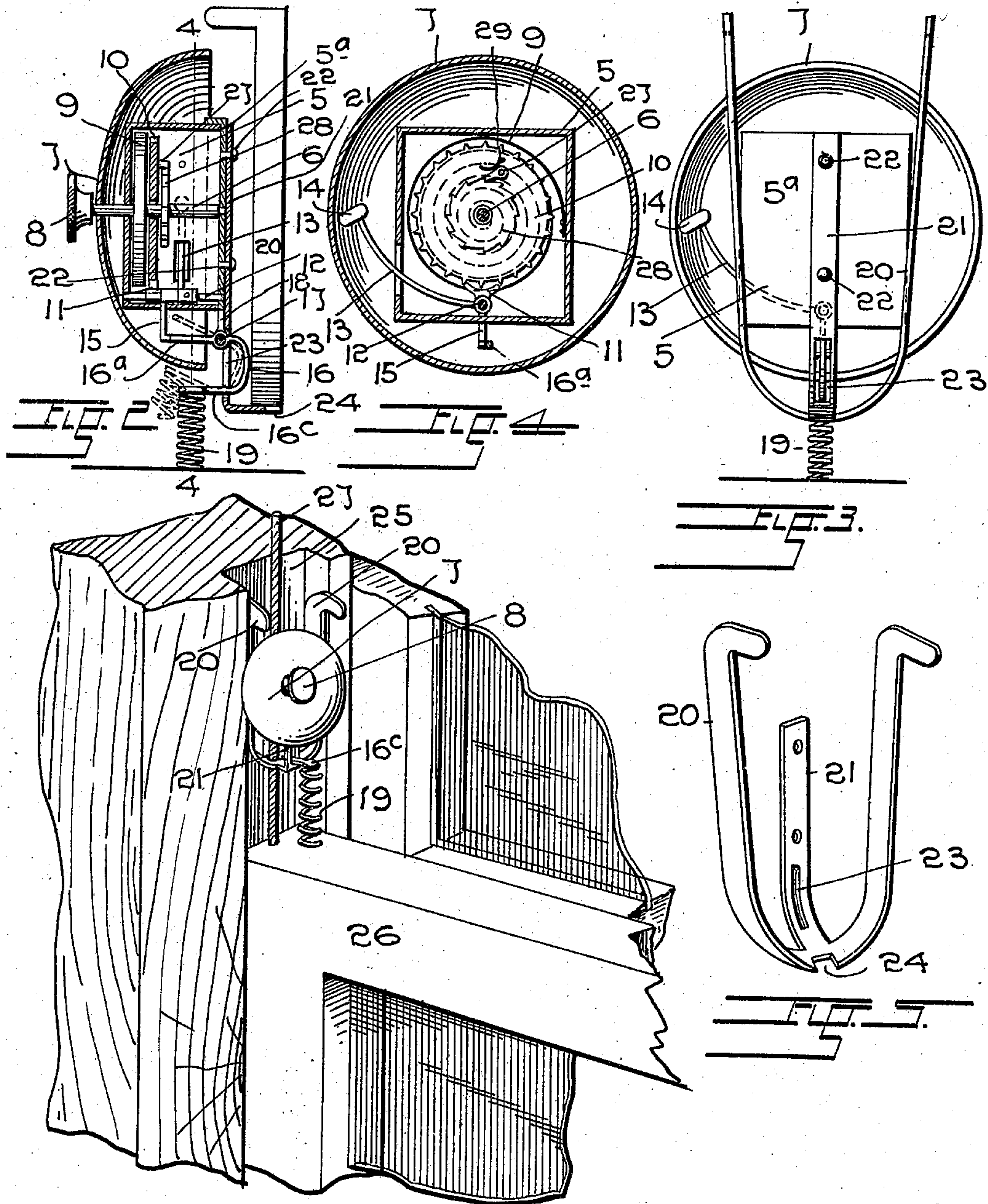


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E. L. RYCRAFT.
BURGLAR ALARM.
APPLICATION FILED NOV. 21, 1906.



WITNESSES:

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EVA L. RYCRAFT, OF DENVER, COLORADO.

BURGLAR-ALARM.

No. 848,129.

Specification of Letters Patent.

Patented March 26, 1907.

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To all whom it may concern:

Be it known that I, EVA L. RYCRAFT, a citizen of the United States of America, residing at Denver, in the county of Denver and State of Colorado, have invented certain new and useful Improvements in Burglar-Alarms, of which the following is a specification.

This invention relates to improvements in burglar-alarms, and has for its object to provide a device which may be attached to a window-casing irrespective of the position of the lower sash and without marring the parts with which it connects and which is actuated by the said sash when moving in upward direction.

I attain this object by the mechanism illustrated in the accompanying drawings, in the various views of which like parts are similarly designated, and in which—

Figure 1 represents a perspective view of a portion of a window casing and sash with my device in operative position; Fig. 2, a vertical section through the device; Fig. 3, a rear elevation thereof; Fig. 4, a vertical section taken along a line 4 4, Fig. 2; and Fig. 5, a perspective view of the detached fastening means.

Referring to the drawings, 5 indicates a preferably rectangular casing, in which a shaft 6 is transversely and revolvably mounted. One of the extremities 6^a of this shaft projecting outside the casing supports a gong 7 and is provided with a knob 8, by means of which it may be rotated for the purpose of winding a spring 9, which, being coiled around the shaft within the casing, is attached thereto at one extremity, while its opposite end connects with a convenient stationary part. A cog-wheel 10, mounted loosely on the shaft, is provided on its outer face with a pawl 27, which is held in engagement by a spring 29 with the peripheral teeth of a ratchet-wheel 28, fixedly secured upon the shaft in juxtaposition to wheel 10. A second shaft 12, revolvably mounted in the casing below and in parallel relation to the first-named shaft, carries a double-acting pawl 11, which is arranged to project into the peripheral interdenal spaces on the cog-wheel.

Rigidly secured upon the shaft 12 is a curved arm 13, provided at its outer extremity with a bell-hammer 14, which in practice is disposed in close proximity to the inner surface of the gong. A second arm 15, projecting from the shaft 12, extends down-

wardly outside the casing, to be engaged at its extreme end by the extremity of the arm 16^a of a curved lever 16, which is fulcrumed, by means of a pin 17, upon a downwardly-ranging extension 18 of the back plate 5^a of the casing. The opposite arm 16^c of lever 16 is curved and terminates in either a rigidly-secured or integral helical spring 19, the lower extremity of which engages in practice the upper surface of the lower sash of the window to which the device is applied.

20 designates a U-shaped spring-clamp the ends of which are provided with laterally-extending thumb-pieces to facilitate manipulation. An inwardly-bent upwardly-ranging member 21 is integral with the lower curved portion of the clamp and is intended to secure the latter upon the rear plate 5^a of the casing by means of screws 22. A slot 23, cut in the lower portion of the arm, is arranged to admit the intersecting curved portion of the arm 16^c of lever 16, while a notch 24, cut in the curved portion of the spring-clamp, is designed to permit passage of the sash-cord when the device is in place on the window-casing.

To apply my improved burglar-alarm to the window, the upwardly-extending normally diverging members of the spring 20 are compressed for the purpose of inserting the latter within the channel 25 of the window-casing, which guides the lower sash during its up and downward movement. The spring 20 on being released will by its tendency to relax forcibly engage the sides of the channel, and thus firmly hold the device against displacement. When the alarm is in this position, the sash-cord 27 extends through the notch 24 in the lower curved portion of the spring-clamp, while the helical yielding extension of the arm 16^c of lever 16 is in engagement with the lower sash. The coil-spring having previously been wound by manipulation of the knob 8 on shaft 6 is maintained in this condition by the engagement of the extreme end of the arm 15 on the shaft 12 with the adjacent extremity of the arm 16^a, which connection through instrumentality of the wheels 10 and 28 and the therewith-engaging pawls 11 and 27 holds the shaft 6 against rotation. When the lower sash of the window is raised, the pressure exerted on the member 19 of lever 16 will cause the latter to turn about its fulcrum, with the result that its upper extrem-

ity is moved out of engagement with the arm 15, leaving the spring 9 free to unwind, which through instrumentality of the above-described mechanism causes the clapper 14
5 to engage the gong and sound the alarm.

The yielding properties of the member 19 mitigate any damaging effects on the device should the window-sash be quickly and forcibly raised, while the peculiar construction of
10 the fastening and actuating means permits the use of the appliance irrespective of the position of the sash.

The last-named feature of the device renders it of special value for use in sleeping-
15 rooms, as it permits the occupants to leave the window partly raised during the night for ventilating purposes with the assurance of immediate warning at the slightest attempt to gain entrance to the apartment by further
20 raising of the window.

Having thus described my invention, what I claim is—

1. A burglar-alarm, comprising in combination, a casing, a shaft extending there-
25 through, a gong, a clapper in operative relation to the said gong, a spring - actuated mechanism arranged to impart a vibratory movement to the said clapper, an arm rigidly connected with the latter, and a lever ful-
30 crumed upon the casing to engage the said arm with one extremity and having a down-

wardly-ranging, elastic member at its opposite end.

2. A burglar-alarm, comprising in combination, a casing a shaft extending there- 35 through, a gong, a clapper in operative relation to the said gong, a spring - actuated mechanism arranged to impart a vibratory movement to the said clapper, means adapted to release the spring by engagement with
40 the upwardly-moving part of the window to which the device is attached, and a spring-clamp upon the said casing adapted to frictionally engage the opposite sides of a channel in the window-casing. 45

3. A burglar-alarm comprising in combination a casing, a shaft extending there- through, a gong, a clapper in operative relation to the said gong, a spring - actuated mechanism arranged to impart a vibratory
50 movement to the said clapper, means adapted to release the spring by engagement with the upwardly-moving part of the window to which the device is attached, and a U-shaped spring-clamp secured upon and spaced from
55 the said casing.

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

EVA L. RYCRAFT.

Witnesses:

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K. M. STUMP.