

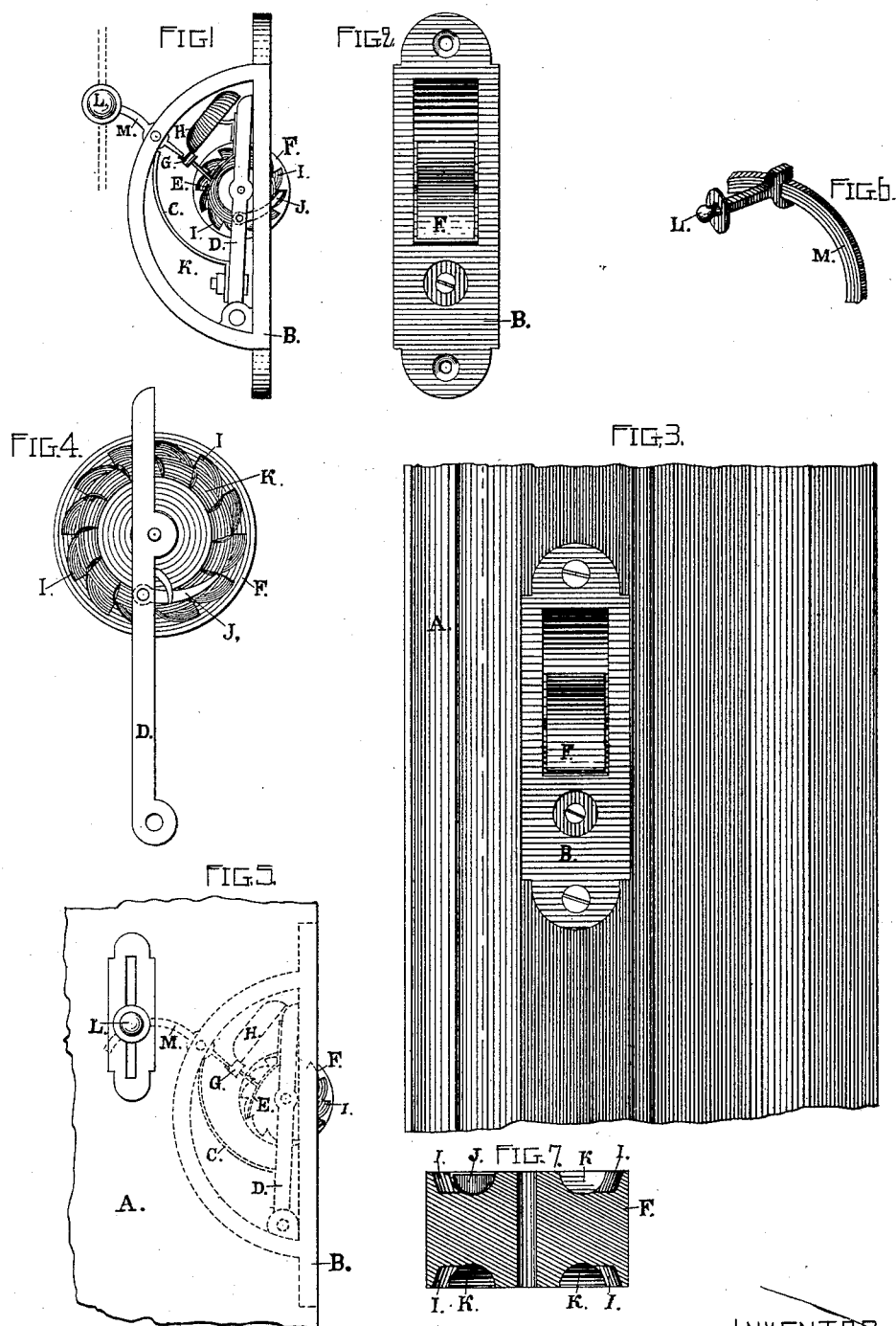
(No Model.)

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WINDOW BURGLAR ALARM.

No. 346,105.

Patented July 27, 1886.



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UNITED STATES PATENT OFFICE.

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WINDOW BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 346,105, dated July 27, 1886.

Application filed September 15, 1885. Serial No. 177,172. (No model.)

To all whom it may concern:

Be it known that I, JAMES E. HUNT, a citizen of the United States, residing in the city and county of San Francisco, and State of California, have invented a new and useful Improvement in Combined Window-Stops and Burglar-Alarms, of which the following is a specification.

My invention relates to combined window-stops and burglar-alarms; and it consists in a certain device and arrangement which will be more readily understood by reference to the accompanying drawings.

Figure 1 is a side elevation of the device; Fig. 2, a front elevation or face view of the same. Fig. 3 shows the same set in a window-frame. Fig. 4 shows the roll F and spring-lever D and the silent pawl and alarm-spring E. Fig. 5 shows the device in a sash, and Fig. 6 shows the connection of the thumb-piece L with the lever M. Fig. 7 is a central section of the roll F.

A represents the window-frame; B, the frame of the stop and alarm; C, the spring which is attached to the lever which bears the roll against the sash; D, the spring-lever which bears the roll against the sash; E, the alarm-spring; F, the bearing-roll; G, the hammer; H, the alarm-bell; I, the catch or alarm notches of the bearing-roll; J, the pawl; K, the guide-channel. M is the lever which connects the thumb-piece L with the hammer G.

The following is the construction of the device: I form the frame B of brass or any suitable metal, and the levers and springs of similar metal to that generally employed for similar constructions. The alarm-spring E is of a thin flat form, so as to produce a sharp rattling effect similar to that of the policeman's rattle. The pawl J bears lightly in the guide-channel while the sash is being raised, and has no tendency to fall out against the catch-notches I; but as soon as the sash begins to descend and the roll to revolve backward the end of the pawl is caught by the slight channel or extension of one of the notches I and carried into the notch, which holds it in the same way as the ordinary rack and catch-pawl. The guide-channel K is a smooth round-bottomed groove with the notches I extending from the outside nearly to the middle, but not sufficiently far to cause a rattling sound by the end of the pawl J as

they pass the same when the sash is raised and the roll F is revolved. I employ the knob or thumb-piece L to press back the hammer G, thereby forcing the alarm-spring E out of gear with the notches I, as will be explained.

The following is the operation of the device: As the sash is raised the roll F, pressing against the same, forces it against the window-frame, producing sufficient friction to prevent the sash from dropping down so long as the roll F is held from revolving by the pawl J, which falls into the notches I whenever the weight of the sash revolves the roll F. Thus the sash is held up at any desired point. When the sash is to be lowered, it is pressed slightly against the roll F and pulled down with sufficient force to overcome the friction. When it is desired to throw the alarm-spring E out of gear, the thumb-piece L is moved up, vibrating the lever and pressing back the hammer G and alarm-spring E, thus throwing the hammer G away from the bell H and the alarm-spring E out of gear with the notches I. When the burglar-alarm is required, it is only necessary to force the knob L down and release the hammer and alarm-spring. The alarm-spring then falls into the notches I, and as each notch passes a sharp click is heard, and at the same time the hammer G strikes the bell H, ringing the same and causing a very distinct alarm. When the alarm is out of gear, the window-sash may be raised without noise and held at any required height, and may be pulled down by the hand.

What I claim, and desire to secure by Letters Patent, is—

1. In combined window-stops and burglar-alarms, the spring-lever D, provided with the alarm-spring E, carrying a hammer, and the pawl J, in combination with the bell H, the roll F, having the notches I, and channel K, substantially as set forth.

2. The combination of the frame B, the lever D, carrying the roll F, having a channel and notches, as described, the spring C, the pawl J, spring E, bell H, hammer G, lever M, and finger-piece L, substantially as set forth.

JAMES E. HUNT.

Witnesses:

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