

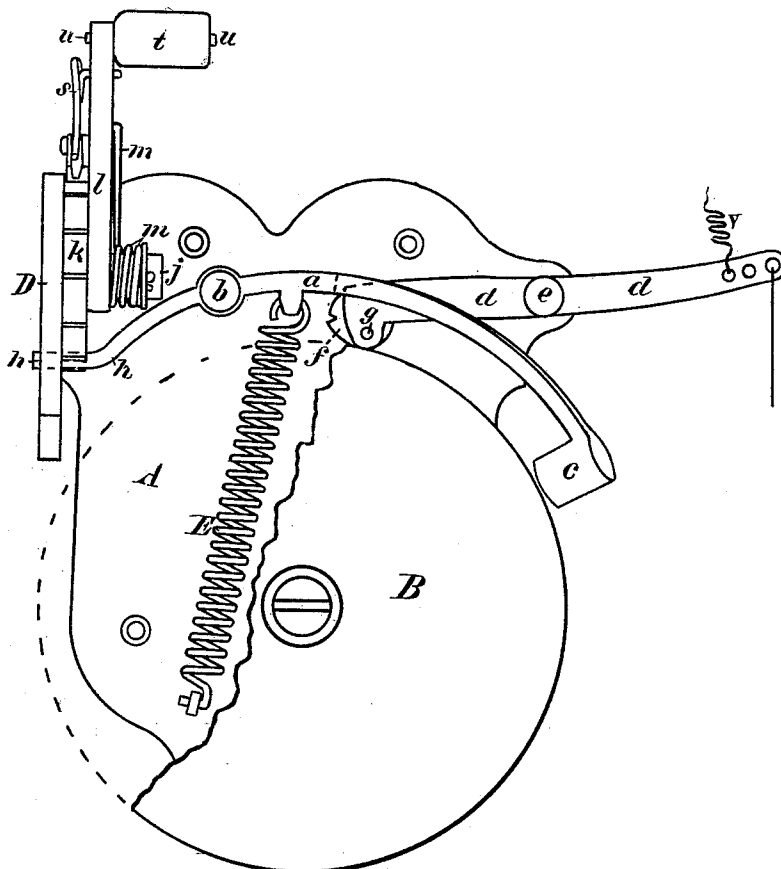
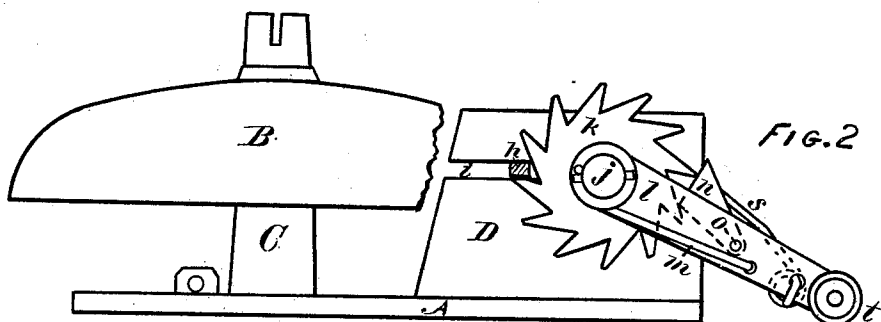
(No Model.)

F. N. COTTLE.
Door Gong and Alarm.

No. 231,152.

Patented Aug. 17, 1880.

FIG. 1



WITNESSES.

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FREEMAN N. COTTLE, OF CHELSEA, MASSACHUSETTS.

DOOR-GONG AND ALARM.

SPECIFICATION forming part of Letters Patent No. 231,152, dated August 17, 1880.

Application filed May 22, 1880. (No model.)

To all whom it may concern:

Be it known that I, FREEMAN N. COTTLE, of the city of Chelsea, State of Massachusetts, have invented an Improved Door-Gong and Alarm, of which the following is a specification.

This invention relates to that class of signal and alarm gongs which are employed in connection with the doors, windows, or other openings in dwelling-houses and other buildings for the purpose of enabling well-intentioned persons to signal the occupants of such buildings of their desire to enter the same, and to signal to the occupants of such buildings when evil-disposed persons are attempting to feloniously enter the same; and the invention consists in the devices and the combination thereof by which a single-tap alarm may be sounded upon the gong by those seeking to enter lawfully, while those seeking to effect an unlawful entrance will sound a rapidly-repeated tapping alarm upon such gong.

Figure 1 is an elevation of my invention complete, except that the gong is represented as partly broken away to show the striker-spring. Fig. 2 is a side elevation as viewed from the right in Fig. 1, and with the striker and its actuating-lever removed to show the repeating tapping devices.

In these views, A represents the bed-plate. B is the gong, mounted in the usual manner upon stud C of bed A.

The usual striker-lever is shown at *a*, pivoted at *b*, and formed with the customary head *c*, and provided with the actuating-spring E.

The usual striker-actuating lever *d* is pivoted at *e*, and is provided in the usual manner with the trigger *f*, pivoted in the lever at *g*, the returning-spring of said lever being shown at *v*. This portion of my alarm is of the usual and well-known construction.

Upon the edge of bed A is formed the raised angle D, having the slot *i*, in which the extension *h* of striking-lever *a* freely plays.

A stud, *j*, formed upon or secured in angle D, serves as the pivot of ratchet *k*, which is arranged next to D, as shown. An actuating-lever, *l*, and its returning-spring *m* are also pivoted upon said stud, and said parts are secured thereon by a pin and washer, as shown.

A pawl, *n*, is pivoted in lever *l* at *o*, and is

provided with a contact-spring, *s*, also secured in said lever, as shown, which serves to insure the contact of the pawl with the teeth of the ratchet.

A roll, *t*, is pivoted upon pin *u*, secured in the outer end of lever *l*, as shown in both Figs. 1 and 2.

In use the alarm is secured by means of bed A in such position that when the door, window, or shutter where it is applied is moved in opening, its contact with roll *t* will vibrate lever *l*, thereby, through pawl *n*, actuating ratchet *k*, the teeth of which, as they successively pass arm *h*, will vibrate the same, and as it is successively liberated from such teeth the reaction thereof will allow striker *c*, actuated by spring E, to sound the gong, which will be repeated as each tooth so passes the arm, thereby sounding a repeated tapping-alarm, while but a single tap will be struck at each pull upon lever *d*.

It will be obvious that lever *l* may be formed of such length and with such curves or angles as will adapt it to the requisite contact with the door, window-shutter, or other movable part in each position where it is to be applied and that it may be constructed to be thrown out of contact with such moving part of the building at any time when danger of burglary is not to be apprehended.

I am aware that it is not new to combine with a door-bell a projecting contact arm or lever, or an equivalent device, which can be arranged to sound an alarm by repeated tapping upon the door-bell, when the door or other movable part to which such bell is connected or with which it is used is moved in the act of opening the same; and I am also aware that door-bells have been so constructed that by a continuous movement of the crank or other operating device in the same direction a repeated tapping-alarm can be sounded upon the bell; and I do not claim the same either broadly or in the abstract, my invention being confined to the specific subject-matter defined in the claims.

I claim as my invention—

1. In a door-gong and alarm having the bed A, with bell B and striking-lever *a* mounted thereon, the slotted angle D of such bed, with the extension-arm *h* of lever *a* engaged in such

slot, ratchet *k*, to engage arm *h*, pivotal lever *l*, with its returning-spring *m* and its elastic contact-pawl *n*, to engage said ratchet, and the pivotal roll *t*, to form contact with the door, sash or shutter, all substantially as specified.

2. The combination of bell B, mounted upon bed A, striking-lever *a*, with its extension-arm

h, the single-tapping lever *d*, ratchet *k*, and lever *l*, with its return-spring *m*, roll *t*, and spring contact-pawl *n*, all substantially as specified.

FREEMAN N. COTTLE.

Witnesses:

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