June 2, 1953

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2,640,455

BURGLAR ALARM

Filed Oct. 25, 1951

Fig. 1

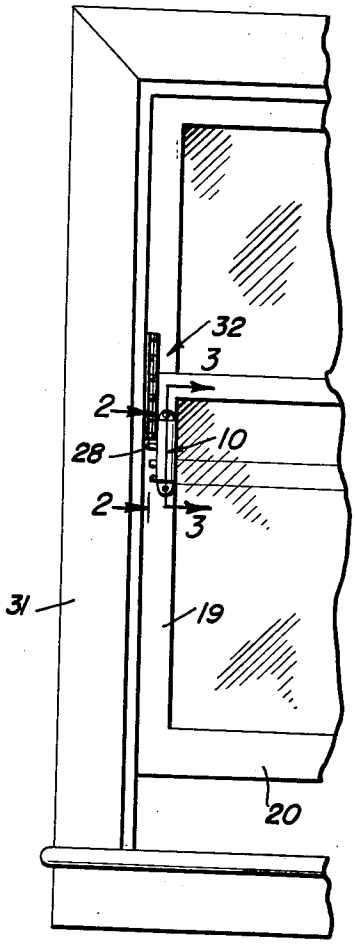


Fig. 2

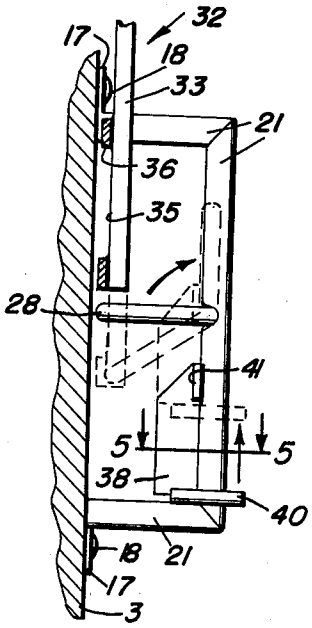


Fig. 7

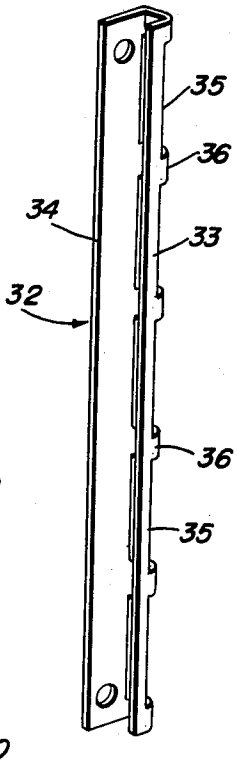


Fig. 3

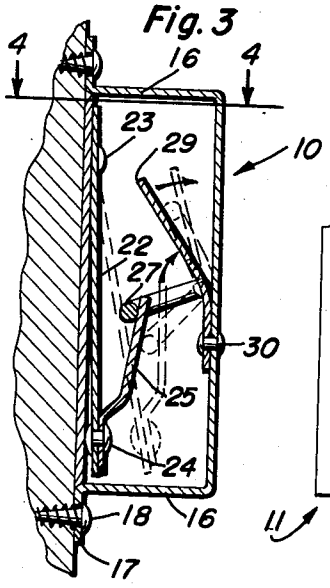


Fig. 6

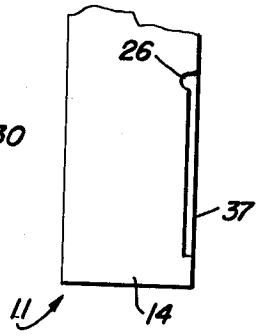


Fig. 4

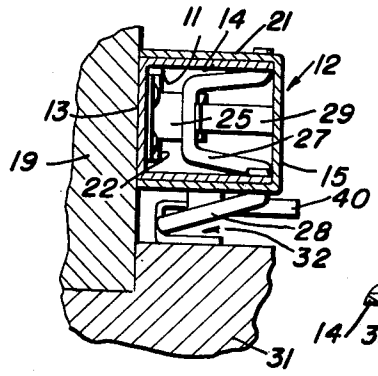
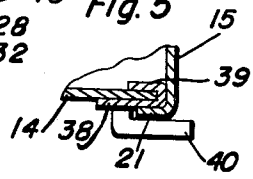


Fig. 5



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BURGLAR ALARM

Samuel Talucci, Philadelphia, Pa.

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3 Claims. (Cl. 116—86)

1

The present invention relates to new and useful improvements in burglar alarms for use particularly on sliding window sashes and has for its primary object to provide in a manner as hereinafter set forth, a device of this character embodying novel means for sounding one or more sharp signals if the sash is raised to open position, thereby warning the occupants of the house or building and frightening off the intruder.

Another important object of the invention is to provide a burglar alarm of the aforementioned character which may be readily rendered inoperative when desired.

Other objects of the invention are to provide a burglar alarm of the character described which will be comparatively simple in construction, strong, durable, highly efficient and reliable in use, compact, inconspicuous and which may be manufactured at low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawing, wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is a view in front elevation, showing a burglar alarm in accordance with the present invention installed on a window.

Figure 2 is a vertical sectional view, taken substantially on the line 2—2 of Figure 1;

Figure 3 is a vertical sectional view, taken substantially on the line 3—3 of Figure 1;

Figure 4 is a view in horizontal section, taken substantially on the line 4—4 of Figure 3;

Figure 5 is a fragmentary view in horizontal section, taken substantially on the line 5—5 of Figure 2;

Figure 6 is a detail view in side elevation of the portion of the housing on which the slidable latch is mounted; and

Figure 7 is a perspective view of the stationary actuating device.

Referring now to the drawings in detail, it will be seen that the embodiment of the invention which has been illustrated comprises a vertically elongated housing of metal or other suitable material which is designated generally by reference numeral 10. The housing 10 includes complemental sections 11 and 12. The section 11 is formed from a single sheet of suitable metal and comprises a base or back wall 13 having side walls 14 formed integrally therewith. The housing section 12 is also formed from a single sheet of suitable metal and comprises a front wall 15

2

together with integral upper and lower end walls 16. The end walls 16 are provided with outwardly turned apertured ears 17 which accommodate screws 18 for firmly securing the unit 10 in position on the inner face of the side rail 19 of a slidable lower window sash. The walls 15 and 16 of the housing section 12 have formed integrally therewith marginal flanges 21 which overlie the side walls 14.

Mounted vertically in the housing 10 is a flat spring 22 having its upper end portion firmly secured to the back wall 13 as at 23, the lower end of said spring being free. Mounted on the free lower end portion of the spring 22, as at 24, is an upwardly divergent arm 25.

The front edges of the side walls 14, also the opposed flanges 21 of the front wall 15, are notched in a manner to provide bearings 26 in which a crank shaft 27 is journaled. At one end, the crankshaft 27 terminates in an arm or finger 28 which extends adjacent one of the side walls 14. The purpose of the member 28 will be presently set forth. Mounted in the housing 10 on the front wall 15 thereof is an upwardly and rearwardly inclined shock absorbing and return spring 29 for the crankshaft 27. This return or bumper spring 29 is secured at 30 to the wall 15.

Mounted on the window frame 31 adjacent to but above the unit 10 is an actuator 32. The actuator 32 is in the form of a channel bar 33 provided on one side with an integral flange 34 which is apertured to accommodate screws for firmly securing said actuator in position on the window frame 31. The channel bar 33 has formed therein a series of longitudinal slots 35 defining spaced transverse bars or obstructions 36, the purpose of which will also be presently set forth.

As best seen in Figure 6 of the drawing, the lower portion of the front edge of one of the side walls 14 is cut away or recessed as at 37 to accommodate a latch 38 which is slidable on the housing 10. The latch 38 includes a substantially U-shaped marginal portion 39 (see Figure 5) which is operable in the recess 37 between the front wall 13 and the side wall 14 on which said latch is mounted. The latch 38 is provided on its lower end with an operating handle 40. An ear or lug 41 extends outwardly from the upper end portion of the latch 38 for engagement with the arm or finger 28 for rendering the device inoperative when desired.

It is thought that the operation of the alarm will be readily apparent from a consideration of the foregoing. Briefly, when the device is set for

operation with the sash 20 in lowered position or substantially so, the crankshaft 27 normally rests by gravity on the inclined arm 25 substantially as shown in full lines in Figure 3 of the drawing. The actuator 34 is in the vertical path of the free end portion of the arm or finger 28. Thus, should the sash 20 be raised to open position the arm, finger or lever 28 enters the channel bar 23 and successively strikes the bars 36 and is swung downwardly and outwardly thereby. In this manner the crankshaft 27 is actuated to flex the spring 22 to the position shown in dotted lines in Figure 3 in the drawing. As the arm or lever 28 clears the members 36 the spring 22 is suddenly released and snaps back to its former position, giving a sharp audible signal as it does so. When this occurs the crankshaft 27 is thrown upwardly by the arm 25 but strikes the resilient bumper 29 and is instantly returned by said bumper and by gravity to lowered position in engagement with said arm 25. Thus, engagement of the arm or lever 28 with each of the elements 36 is insured. If the sash 20 is lowered the arm or lever 28 simply rides over the elements 36 and the crankshaft 27 swings idly. To render the device inoperative, the arm or lever 28 is swung upwardly to a vertical position as suggested in Figure 2 of the drawing and the latch 38 is then elevated for engaging the lug or ear 41 with said arm or lever for retaining the same.

It is believed that the many advantages of the burglar alarm constructed in accordance with the present invention will be readily understood and although a preferred embodiment of the device is as illustrated and described, it is to be understood that changes in the details of construction and in the combination and arrangement of the parts may be resorted to which will fall within the scope of the invention as claimed.

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

1. A burglar alarm of the character described comprising a vertically elongated housing for mounting on a slidable window sash, a flat sounding spring mounted in the housing and having one end portion secured thereto, the other end portion of said spring being free, an arm on said other end portion of the spring, a crank shaft journaled in the housing and engaged with the arm for actuating the spring, and an operating lever on one end of said crankshaft.

2. A burglar alarm comprising a housing for mounting on a window sash, said housing comprising a pair of complemental sections secured together, one of said sections including a back wall and side walls integral with said back wall and having notches therein, the other of said sections including a front wall and end walls integral with the front wall, attaching ears on the end walls, a sounding spring mounted on said back wall, a crankshaft journaled in the notches and operatively connected to the sounding spring, and an operating lever on one end of said crankshaft, said other section further including marginal flanges on said front wall overlying the side walls and engaged with the crankshaft for retaining same in the notches.

3. A burglar alarm of the character described comprising a housing for mounting on a window sash, a flat sounding spring mounted in the housing, a crankshaft journaled in the housing and operatively connected to the sounding spring for actuating the same, an operating lever on one end of the crankshaft, and a manually operable latch slidably mounted on the housing and engageable with the lever for securing the crankshaft in inoperative position in the housing.

SAMUEL TALUCCI.

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