

(No Model.)

F. A. GOELZE.
BURGLAR ALARM.

No. 485,101.

Patented Oct. 25, 1892.

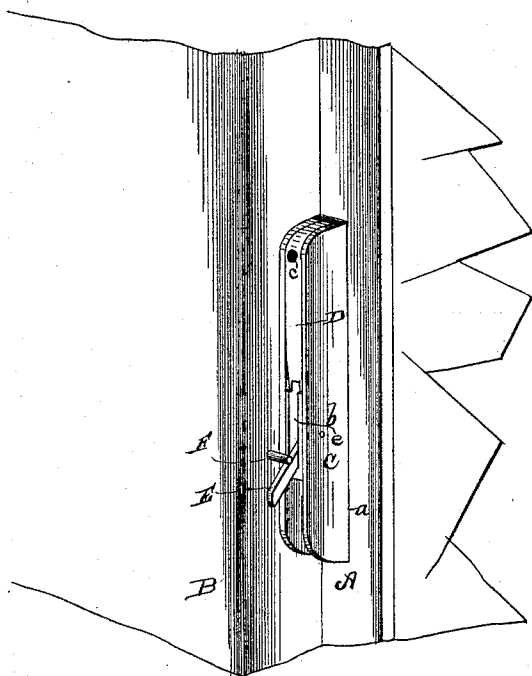
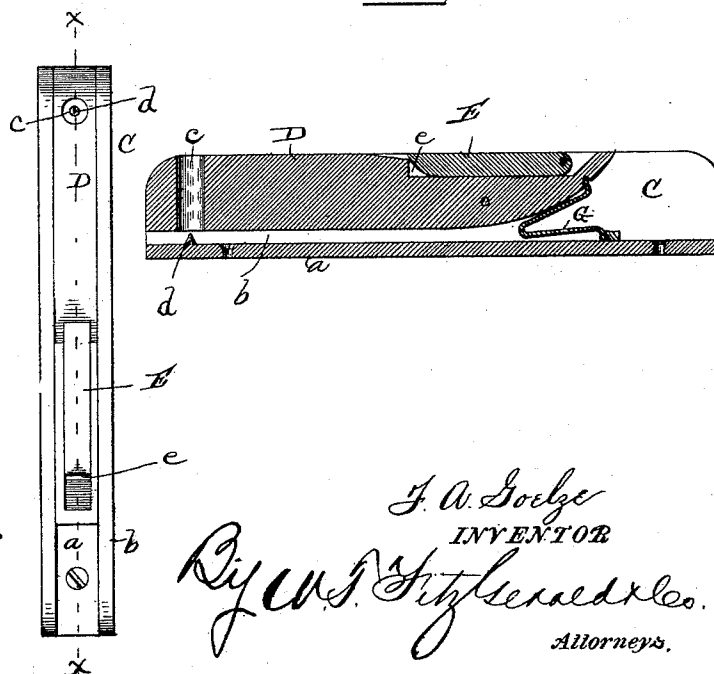


Fig. 1.

Fig. 2.

Fig. 3.



WITNESSES

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BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 485,101, dated October 25, 1892.

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To all whom it may concern:

Be it known that I, FRANK ALBERT GOELZE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Burglar-Alarms; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has relation to improvements in burglar-alarms; and it consists in the peculiar construction, certain novel combinations, and the adaptation of parts hereinafter described, and particularly pointed out in the claims appended.

In the accompanying drawings, Figure 1 is a perspective view of a portion of a window-sash and sash-frame with my improved alarm in an operative position. Fig. 2 is a front elevation of the alarm removed from the window-sash, and Fig. 3 is a longitudinal section taken in the plane indicated by the line $x x$ on Fig. 2.

Referring by letter to the said drawings, A indicates the sliding window-sash, and B indicates the frame thereof, both of which may be of the ordinary or any approved form and construction. Suitably connected by screws or the like to the window-sash A is the casing C of my improved alarm, which preferably comprises the base-plate a and the parallel side walls b , as illustrated. Fulcrumed at an intermediate point in its length between the side walls b is the hammer D, which is provided at its upper end with a bore c to receive a blank cartridge, which is designed to be struck against the pointed stud d on the base-plate a and be exploded when the window-sash is raised, as will be presently described. The hammer D is provided adjacent to its lower end with a longitudinal slot e , which has its lower end beveled, as illustrated, so as to hold the trigger E in about the position illustrated when the same is extended. This trigger E, which is designed to engage the finger F, fixedly connected to the sash-frame B, is so pivoted in the slot e of the hammer D that when desired it may be swung up and into said slot, so that it will rest flush with the outside of the ham-

mer and permit the sash to be moved up and down without exploding the alarm-cartridge. Interposed between the lower end of the hammer D and the base-plate a is a spring G, which is preferably of a V form, as illustrated, and is designed to normally hold the hammer within the casing, as shown, and to violently return the hammer to its normal position and explode the cartridge immediately after the trigger E engages the finger F.

In practice when it is desired to move the sash up and down without exploding the cartridge the trigger E is swung up and nested in the slot e ; but when it is desired to set the alarm so as to explode the cartridge when the sash is raised the said trigger is swung into the position illustrated in Fig. 1. With the trigger in such position it will be readily perceived that when the sash is raised it will engage the finger F and the lower end of the hammer will be pressed inwardly, while the upper end, which carries the cartridge, will be thrown outwardly. Thus it will be seen that as soon as the trigger passes the finger the spring G will cause the hammer to violently resume its normal position, when the cartridge carried by said hammer will be struck against the pointed stud d and exploded.

My improved alarm embodies a very simple and compact construction, and when made of a bright metal and applied to a window-sash it will enhance rather than mar the appearance thereof.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a burglar-alarm, the combination, with the casing having a base-plate, a hammer provided with a longitudinal slot therein and fulcrumed in the casing, and a spring connected to the hammer and base-plate, of a trigger pivoted in said slot and normally flush with the hammer when the implement is not set for explosion, substantially as specified.

2. In a burglar-alarm, substantially as described, the combination, with the casing adapted to be connected to a sliding sash and having a pointed stud, a hammer fulcrumed in said casing and having a bore adjacent to its upper end and a longitudinal slot adjacent

to its lower end, a spring interposed between the lower end of the hammer and the base-plate of the casing, and a trigger pivotally mounted in the longitudinal slot of the hammer, of a finger adapted to be connected to a sash-frame so as to engage the trigger when the sash is raised, substantially as specified.

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

FRANK ALBERT GOELZE.

Witnesses:

C. H. FENTON,
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