

(No Model.)

H. M. COOPER & L. J. KOHL.

BURGLAR ALARM.

No. 347,688.

Patented Aug. 17, 1886.

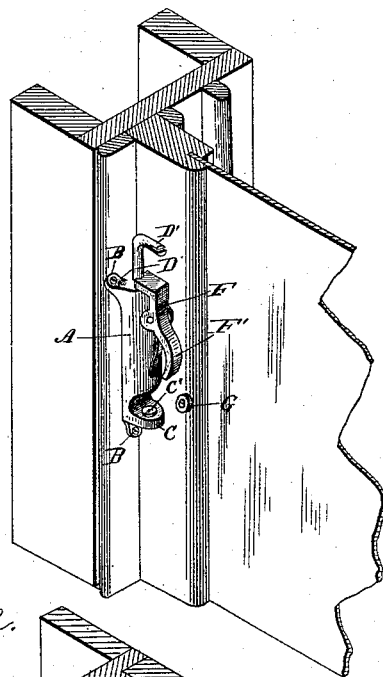


Fig. 1.

Fig. 2.

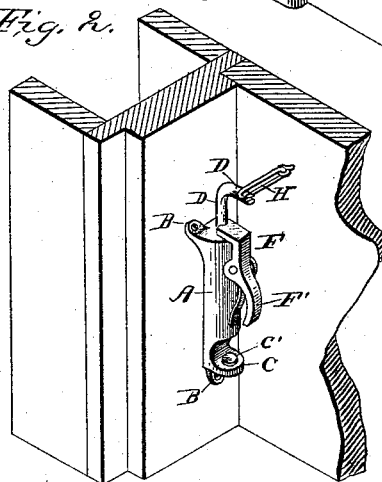


Fig. 3.

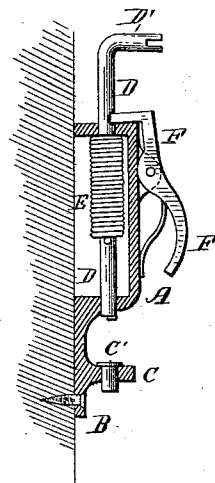


Fig. 4.



Witnesses

C. H. Adams
John C. Jenkins

Inventors

H. M. Cooper & L. J. Kohl

By their Attorney

W. M. Alexander

UNITED STATES PATENT OFFICE.

HENRY M. COOPER AND LEA J. KOHL, OF NEW ALBANY, INDIANA, ASSIGNORS
TO FRANK A. SEARS AND JOHN T. STEEL, BOTH OF SAME PLACE.

BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 347,688, dated August 17, 1886.

Application filed May 7, 1886. Serial No. 301,450. (No model.)

To all whom it may concern:

Be it known that we, HENRY M. COOPER and LEA J. KOHL, citizens of the United States, residing at New Albany, in the county of Floyd and State of Indiana, have invented certain new and useful Improvements in Burglar-Alarms, of which the following is a specification, reference being had therein to the accompanying drawings.

Our invention relates to certain new and useful improvements in that class of burglar-alarms in which a cartridge is used to give the alarm; and it has for its objects to provide a device of simple and cheap construction that may be readily attached to the doors and windows of dwellings or apartments, and be so arranged that the act of opening the same will cause the cartridge to explode, and thus alarm the occupants.

The invention consists in certain novel features of construction, that will be fully described in the following, and particularly pointed out in the claims.

The above objects we attain by the means illustrated in the accompanying drawings, in which Figure 1 represents a perspective view of our invention applied to a window; Fig. 2, the same applied to a door; Fig. 3, a longitudinal sectional view of the device, and Fig. 4 a detail view of a portion of the plunger-rod.

In the drawings, A designates a triangular or other shaped casing. Upon the upper and lower ends of this casing perforated ears or lugs B are formed, for the purpose of attaching the same to the frame or jamb. A perforated abutment or shelf, C, is also formed upon the lower end of the casing, for the support and reception of the cartridge C'. The plunger D passes vertically through the casing, and is arranged concentrically with the cartridge C' upon the shelf directly beneath. A coiled spring, E, surrounds this plunger inside of the casing, and serves to give the requisite force to explode the cartridge. A spring-actuated trigger, F, provided with a downwardly-extending curved arm, F', is pivoted to a projection or ear formed integral with the casing, and engages in a notch cut in the plunger D when set.

G designates a pin or lug attached to the

window-sash in such a manner that upon raising the same the lower end of the trigger will be pressed inwardly, and thereby disengage the upper end from the plunger D, whereupon the latter will be forced down upon and explode the cartridge by means of the coiled spring E.

The plunger D at its upper end is provided with a slotted lateral extension, D', to be connected to the door by means of the pivoted link H. By this arrangement, when the door is opened, the plunger will be partially rotated to disengage it from the trigger F, which rests in the notch in the same. The upper edge of the notch in the plunger is partially cut away or beveled, in order that the trigger may be easily disengaged therefrom when in use upon a door. The impact end of the plunger or exploder is provided with a lug or teat to effectively explode the cartridge.

Having thus fully described our invention, what we claim, and desire to secure by Letters Patent, is—

1. In a burglar-alarm, the combination, with the casing A, provided with attaching means and the cartridge-abutment C, of the spring-actuated plunger-rod D, arranged concentrically with the cartridge, the spring-trigger F, provided with the downwardly-extending curved arm F', and adapted to engage in a notch in the said plunger-rod, and the operating-pin G, substantially as herein set forth.

2. In a burglar-alarm, the combination, with the casing A, provided with the abutment C and suitable attaching means, the spring-actuated plunger-rod D, passing through the casing and provided with the slotted lateral extension D', and the spring-trigger F, engaging in a notch in the plunger and pivoted to the casing, of the link H, pivoted to the door and adapted to rest in the slot in the extension D' when the alarm is set, substantially as herein set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

HENRY M. COOPER.
LEA J. KOHL.

Witnesses:

C. D. DAVIS,
JOHN C. LEPPelman.