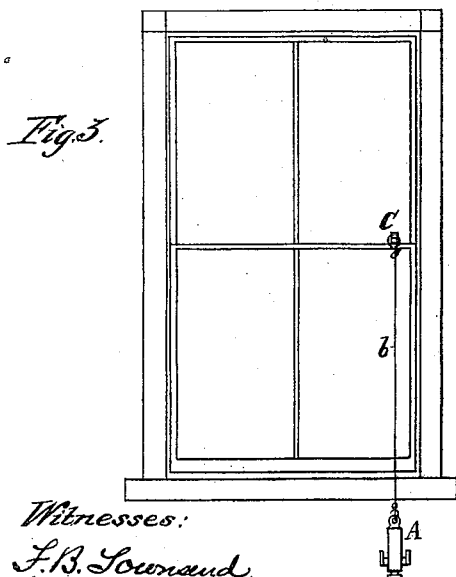
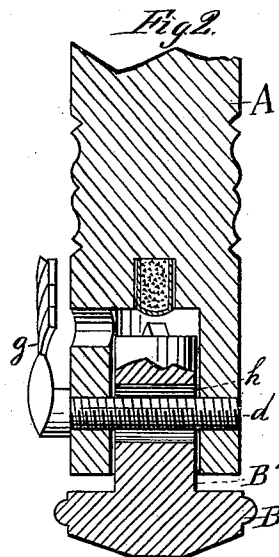
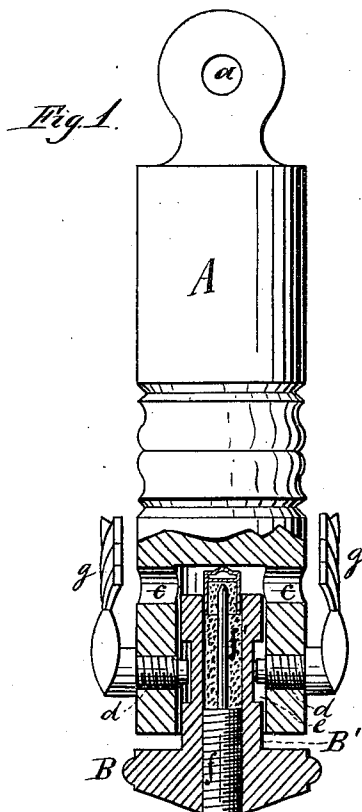


(No Model.)

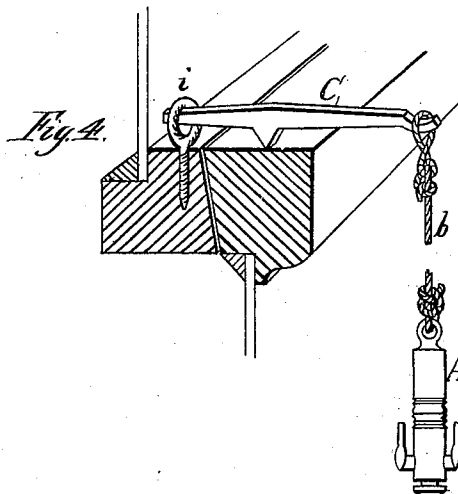
K. E. TIMMERMANN.
Burglar-Alarm.

No. 228,490.

Patented June 8, 1880.



Witnesses:
F. B. Townsend.
Rich. T. A. Dyer.



Inventor:
Karl Emil Timmermann
per Wm H Lotz
Attorney.

UNITED STATES PATENT OFFICE.

KARL E. TIMMERMANN, OF SENFTENBERG, PRUSSIA.

BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 228,490, dated June 8, 1880.

Application filed March 20, 1880. (No model.)

To all whom it may concern:

Be it known that I, KARL EMIL TIMMERMANN, of Senftenberg, Kingdom of Prussia, have invented a certain new and useful Improvement in Burglar-Alarms, of which the following is a specification.

The object I have in view is to produce a torpedo for attachment to doors or windows, so that when the same are opened the torpedo will be released, and falling will strike the floor and explode, which torpedo will be simple and cheap in construction, can be loaded to produce a loud explosion, and at the same time will not set fire to the curtains or carpet in the room where it is placed.

My invention consists in the peculiar construction of the torpedo, as fully hereinafter explained.

In the accompanying drawings, forming a part hereof, Figure 1 is a central section of the torpedo; Fig. 2, a sectional view of a modified form of the same; Fig. 3, an elevation of a window, with my torpedo attached thereto, and Fig. 4 a sectional perspective view, showing the method of attaching the torpedo.

Like letters denote corresponding parts in all of the figures.

A is a weight of metal, and preferably of cylindrical form. It has an eye or hole, *a*, in its upper end, to which is connected the cord *b* for suspending the torpedo. The lower end of the weight is bored out to form a cylindrical chamber, at the upper end of which a transverse hole, *c*, is bored through the walls of the same.

A round head, B, has a shank, B', which fits loosely in said chamber, and is held therein by screws *d*, which enter a groove, *e*, in the shank. This annular groove *e* is wide enough to permit a vertical play of the head B and its shank.

A hole is bored up through the center of the head and shank B B', and in this hole is turned a screw, *f*, having an extension, *f'*, with a point resembling that of a screw-driver. A chamber to receive the explosive compound is formed around the extension *f'* of the screw *f*. The point of the extension *f'* rises a short distance above the shank B', and receives the percussion-cap, as shown.

The screws *d* carry guards *g*, which are situated opposite the holes *c*, and prevent the

gases of the explosion from setting fire to the carpet or curtains of the room.

It will be seen that if the torpedo is allowed to drop when loaded the head B will strike the floor and the powder will be exploded.

In the modification, Fig. 2, the shank B' has an oval hole, *h*, made through it transversely, and is held by a single screw, *d*, passing through such hole. The hole *c* extends through one side only of the chamber in the lower end of the weight, and there is but one guard, *g*.

The solid shank B' has a wedge-shaped striking-point rising from it, and the percussion-cap, filled with fulminating-powder or other strong explosive, is held in a small hole in the weight directly above the shank B'.

To apply the torpedo to a window it may be hung on a small lever, C, resting by a point on the lower sash and held by an eye, *i*, on the upper sash, so that when either sash is moved the lever will be released and the torpedo allowed to fall.

The torpedo can be hung the right distance from the floor or the window-seat, so that it will do no damage when it strikes.

The torpedo can be attached to a door by any simple means, so that it will fall when the door is opened.

The torpedo can also be used on railroad-trains to sound an alarm, and may be connected with the signal-cord.

To load the torpedo the head and shank B B' have to be removed from the weight.

What I claim as my invention is—

1. In a burglar-alarm, the falling torpedo, having vent-holes *c* and guards *g*, substantially as described and shown.

2. In a burglar-alarm, the torpedo described, consisting of weight A, bored out at its lower end, the head and shank B B', screws *d*, guards *g*, vent-holes *c*, screw *f*, and extension *f'*, constructed and arranged substantially as set forth and shown.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

KARL EMIL TIMMERMANN.

Witnesses:

G. DITTMAR,
FRANK C. ZIMMERMAN.