

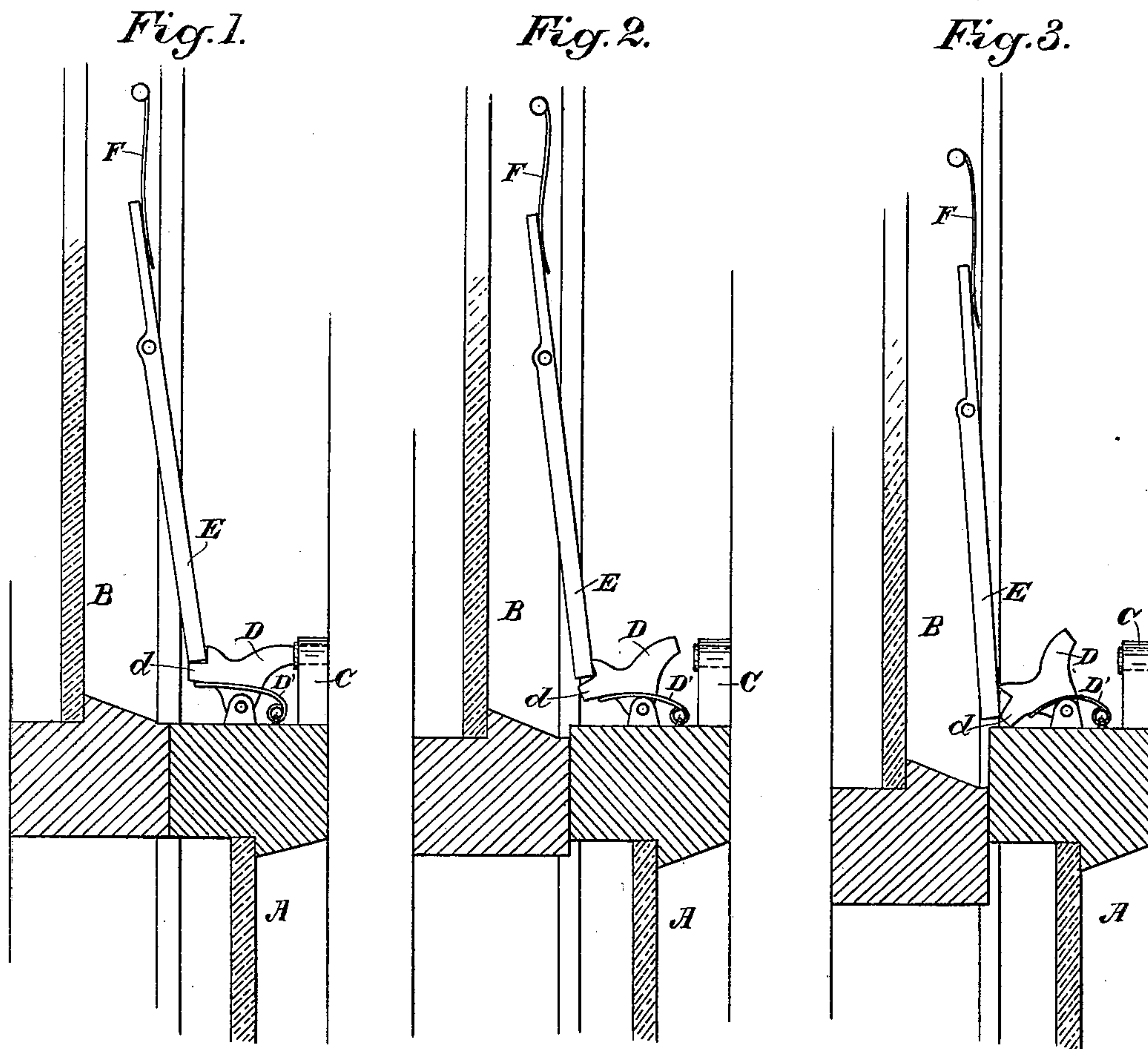
No. 625,980.

Patented May 30, 1899.

W. P. MURPHY.
BURGLAR ALARM.

(Application filed Mar. 14, 1899.)

(No Model.)



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM P. MURPHY, OF WILLOWGLEN, CALIFORNIA.

BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 625,980, dated May 30, 1899.

Application filed March 14, 1899. Serial No. 709,038. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM P. MURPHY, a citizen of the United States, residing at Willowglen, county of Santa Clara, State of California, have invented an Improvement in Burglar-Alarms; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to a novel device for protecting doors, windows, and the like openings in buildings and other structures by giving warning of any tampering with or the opening of doors or windows thus protected.

It consists, essentially, of a device for exploding a cartridge or cap or producing an electrical or other contact or in other ways sounding an alarm which will awaken the occupants of the building upon the disturbance of the door or window and a connection by which said mechanism is actuated.

It also comprises details of construction which will be more fully explained by reference to the accompanying drawings, in which—

Figure 1 shows the window closed. Fig. 2 shows it partially raised and the apparatus moving to the position to give the alarm. Fig. 3 shows the movement so far completed that the alarm apparatus is disengaged.

I have here illustrated my invention as applied to a vertically-sliding window consisting of an upper and lower sash; but it will be manifest that it can be altered to suit any position where it is desired to apply it by a mechanic without materially altering the character of the invention.

As shown in the present case, A is the lower and B the upper sash of a window. Upon the top rail of the lower sash is fixed a cartridge-holder C, and just behind it is fulcrumed a spring-pressed hammer D, the spring D' having sufficient tension so that when the hammer is drawn back and suddenly released the spring will cause the point of the hammer to strike against the cartridge contained in the holder and thus explode it. The hammer has a shoulder or projection *d* at the opposite side of the fulcrumed point from the striking end and against this normally rests or stands in

line with the lower end of a lever-arm E, which is pivoted to the upper sash, as shown. F is a spring pressing against this lever and holding the lower end normally in position to engage the shoulder *d* whenever either of the sashes are moved, this position being well shown in Fig. 1.

When the lower sash is raised or the upper sash lowered, the operation will be as follows: The lug or shoulder *d* of the hammer pressing against the lower end of the lever-arm E, the latter acts to cause the hammer D to turn about its fulcrum-point, the spring D' yielding for that purpose until the sashes have been moved with relation to each other so far that the end of the lever E slips off of the lug *d*, when the spring D' acts to return the hammer, causing its end to strike against the cartridge and explode it. The spring F, which holds the lever E in its normal position, will yield, so as to allow the lug *d* of the hammer to pass the lever E and the hammer to strike the cartridge. The lever E then presses against the back of the lug *d*, and as soon as the sashes are again returned to their closed position the lever E will have passed above the lug *d* and the spring F will act to throw the lever forward in position to again engage the lug *d*.

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

1. An alarm device consisting of a spring-pressed pivoted hammer, a cartridge-holder standing in line with the head of the hammer, a lug projecting from the hammer upon the opposite side of the fulcrum from the head, a spring-pressed lever fulcrumed upon the second sash and normally engaging the hammer-lug whereby the hammer is raised by the movement of the two parts with relation to each other.

2. An alarm apparatus consisting of a hammer centrally fulcrumed to one of the movable parts of the window or like structure having a spring by which it is normally pressed in one direction, a cartridge-holder fixed in the line of movement of the head of the hammer, a lug projecting from the opposite arm

of the hammer, a lever pivoted upon the other
movable part of the sash or window, or like
structure, a spring pressing upon the lever
and holding it normally in the line of move-
5 ment of the hammer-lug whereby the two en-
gage to withdraw the hammer, said spring
yielding when the hammer-lug has passed the
end of the lever whereby the lever is retracted

to allow the hammer to be returned by its
spring to strike the cartridge. 10

In witness whereof I have hereunto set my
hand.

WM. P. MURPHY.

Witnesses:

H. A. BLANCHARD,
C. A. LINQUIST.