

No. 819,914.

PATENTED MAY 8, 1906.

I. J. NEFF.
BURGLAR ALARM.
APPLICATION FILED JULY 6, 1905.

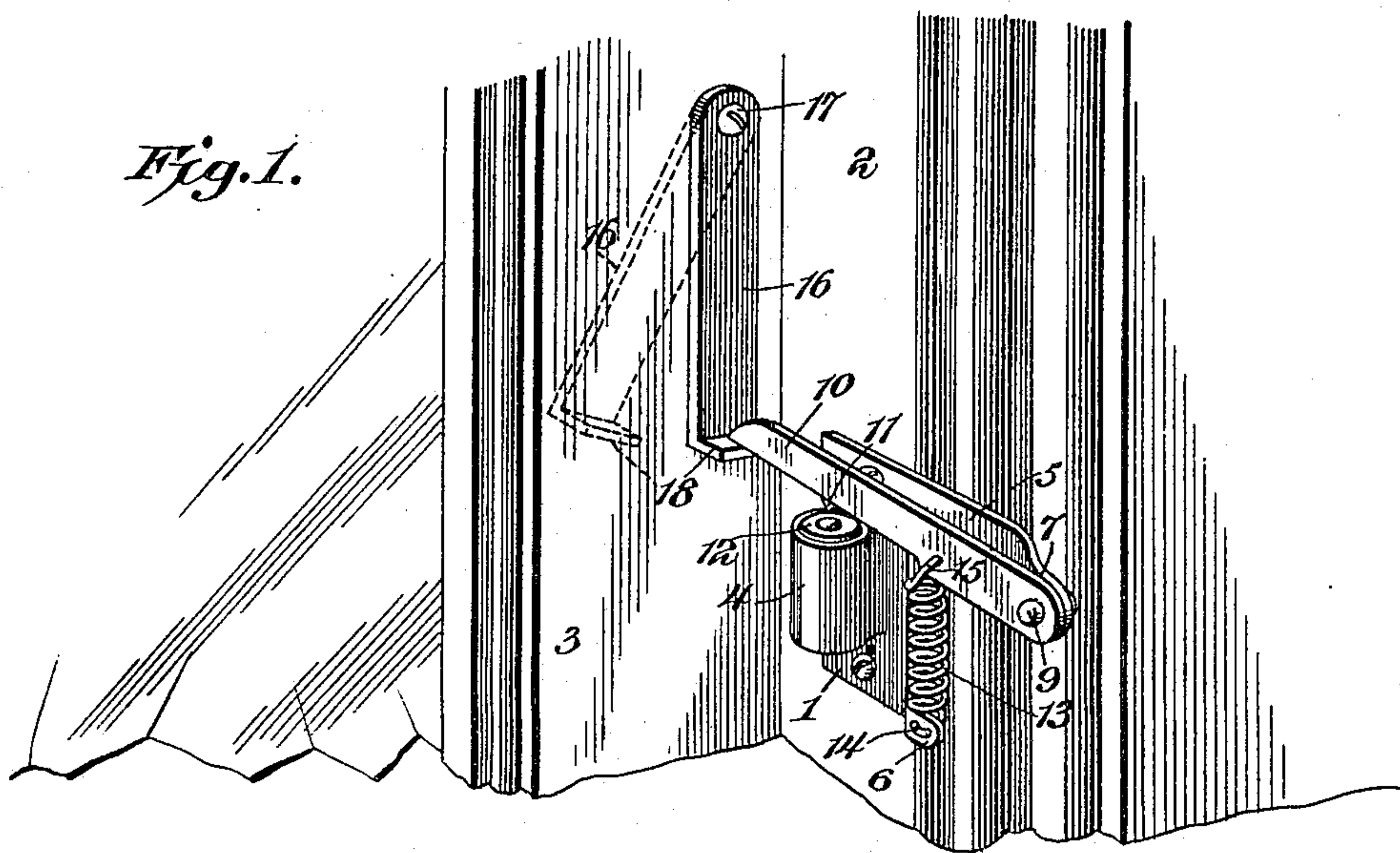


Fig. 3.

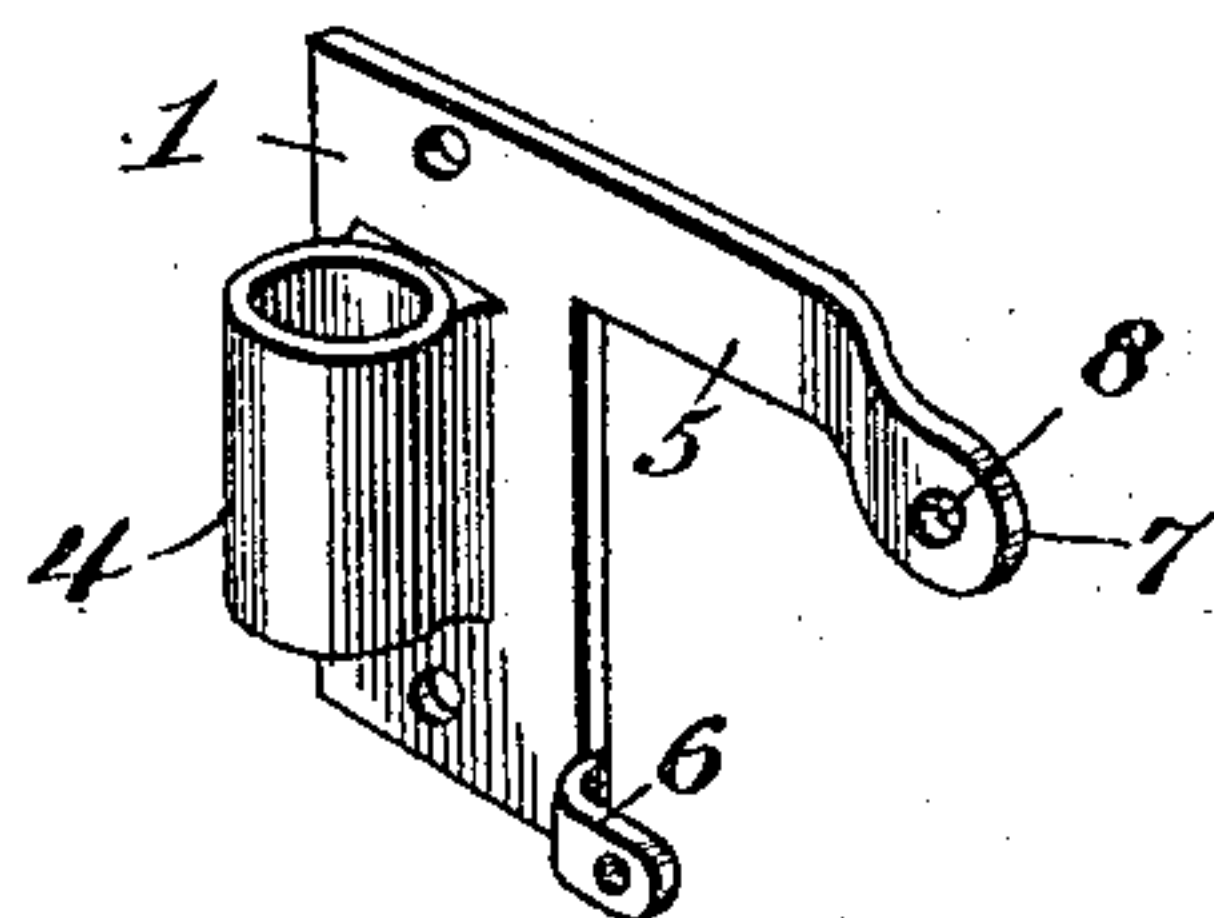
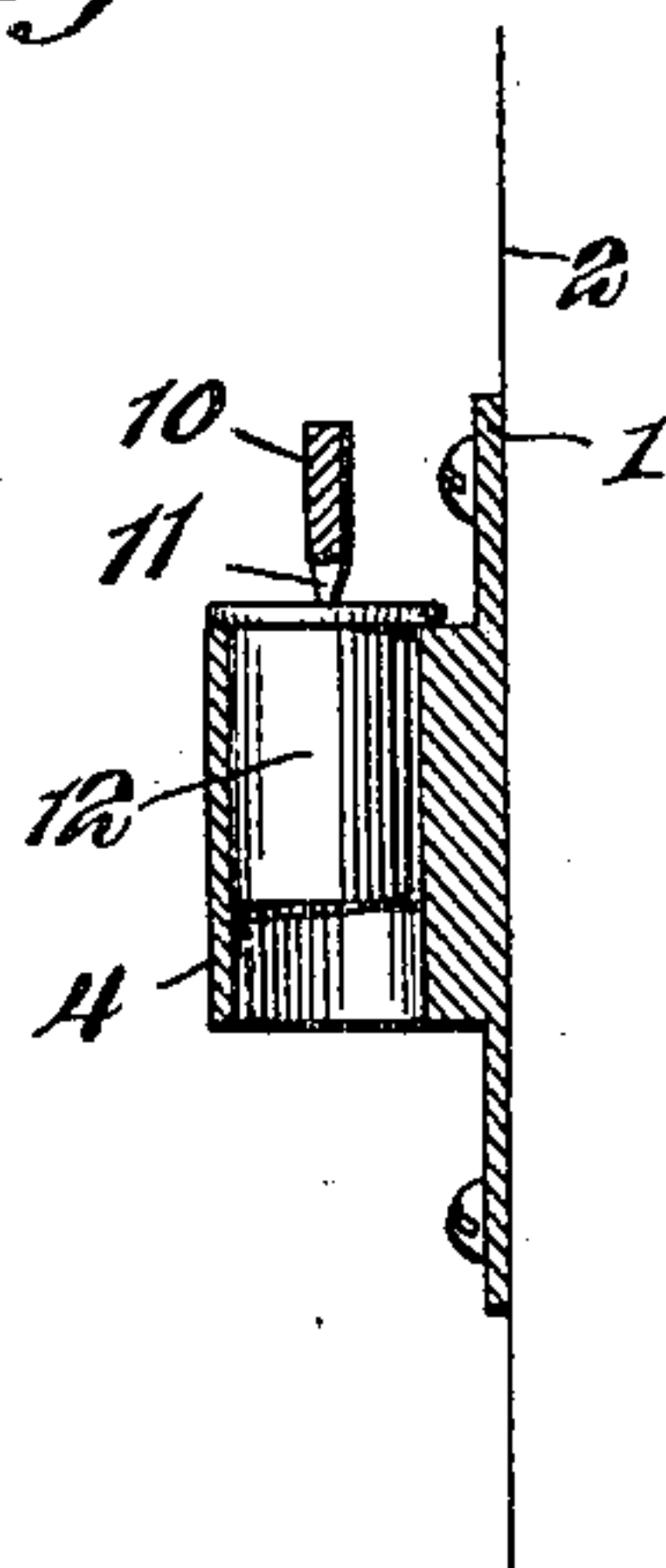


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

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BURGLAR-ALARM.

No. 819,914.

Specification of Letters Patent.

Patented May 8, 1906.

Application filed July 6, 1905. Serial No. 268,358.

To all whom it may concern:

Be it known that I, IRA JASPER NEFF, a citizen of the United States, residing at Elkhart, in the county of Elkhart and State of Indiana, have invented a new and useful Burglar-Alarm, of which the following is a specification.

The invention relates to improvements in burglar-alarms.

The object of the present invention is to improve the construction of burglar-alarms and to provide an exceedingly simple and inexpensive device adapted to be readily applied to a window and capable of exploding a cartridge should the sash be surreptitiously raised.

A further object of the invention is to provide a device of this character which may, when desired, be thrown out of operation, so that the sash may be freely opened and closed without operating the burglar-alarm.

With these and other objects in view the invention consists in the construction and novel combination and arrangements of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended, it being understood that various changes in the form, proportion, size, and minor details of construction within the scope of the claim may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a perspective view of a portion of a window provided with a burglar-alarm constructed in accordance with this invention, the firing-lever being slightly raised to illustrate the construction more clearly. Fig. 2 is a transverse sectional view of the same. Fig. 3 is a detail perspective view of the attachment-plate which carries the cartridge-support.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates an attachment or supporting plate which is provided with perforations for the reception of screws or other suitable fastening devices for securing it to a window-frame 2 at one side of the sash 3. The attachment-plate, which carries a cartridge-support 4, is provided at its outer side with a pair of horizontally-disposed arms 5 and 6 of unequal length, located at the top and bot-

tom of the plate. The upper arm 5, which extends beyond the lower arm 6, has its outer portion 7 bent outwardly beyond the plane of the inner portion of the arm and provided with a perforation 8 for the reception of a pivot 9, which fulcrums a firing-lever 10 on the said arm 5. The pivot passes through the outer end of the firing-lever, which is normally arranged in an approximately horizontal position, and which extends inwardly across the window-frame to a point adjacent to the sash 3. The lever is provided at a point between its ends with a projection 11, extending from the lower edge of the lever and arranged to engage a cartridge 12, as clearly shown in Fig. 2 of the drawings. The cartridge-support 4 consists of a vertically-disposed sleeve or barrel adapted to receive a blank cartridge, which is placed in the support from the upper end.

The firing-lever is carried into engagement with the cartridge by means of a vertically-disposed coiled spring 13, located at the outer edge of the plate and having its lower end 14 passed through a perforation of the lower arm 6, which is also bent outwardly to offset it from the plane of the plate 1. The upper end 15 of the coiled spring is passed through a perforation of the firing-lever, and when the latter is raised and tripped, as hereinafter explained, the spring is adapted to throw the firing-lever downward with sufficient force to explode the cartridge.

The firing-lever is operated by a substantially vertical plate or member 16, pivoted by a screw 17 or other suitable fastening device to the sash 3 and provided at its lower end with a projection or lip 18, which when the sash 3 is closed is located at the lower edge of the firing-lever and which when the sash is raised is adapted to lift the lever until the upward movement of the sash carries it beyond the said lever, whereby the latter is tripped or released to permit the spring to throw it into engagement with the cartridge 12. The exploding of the cartridge will sound an alarm and indicate that the window has been surreptitiously opened by a burglar or other intruder. The operating plate or member 16 is adapted to be swung backward, as illustrated in dotted lines in Fig. 1 of the drawings, to carry its projection or lip away from the firing-lever. When the operating plate or member is arranged as shown in

dotted lines in Fig. 1, the sash may be freely opened and closed without operating the device.

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

A device of the class described comprising a vertical plate designed to be secured to a window frame or casing and having a vertical tubular cartridge-support and provided at its top and bottom with projecting horizontal arms extending from its outer edge, the upper arm being extended beyond the lower one, an approximately horizontal lever pivoted at its outer end to the said upper arm at the terminal thereof and extending across the upper end of the cartridge-support and provided at an intermediate point with means for engaging a cartridge, a spring

located at the outer side of the cartridge-support and secured at its upper end to the lever and at its lower end to the short arm of the said plate, and an operating device consisting of a vertical plate pivoted at its upper end to the sash and provided at its lower end with an outwardly-projecting lip arranged to engage the inner end of the lever, said operating device being movable on its pivot to carry its lip beyond the plane of the inner end of the lever.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

IRA JASPER NEFF.

Witnesses:

CHARLES E. FRANK,
JOHN H. MAURMAN.