

(No Model.)

J. GILES.
BURGLAR ALARM.

No. 252,095.

Patented Jan. 10, 1882.

Fig. 1.

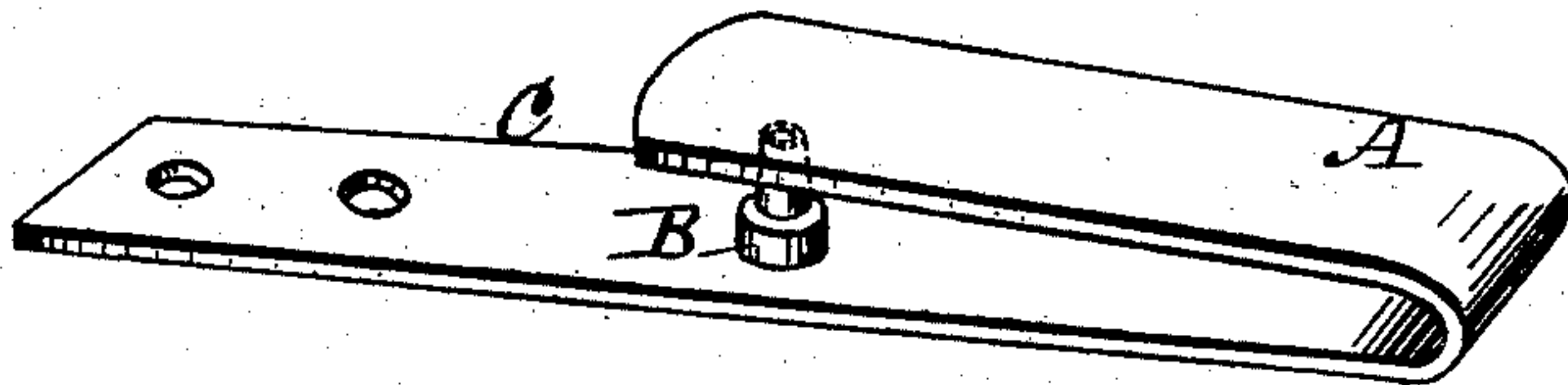


Fig. 2.

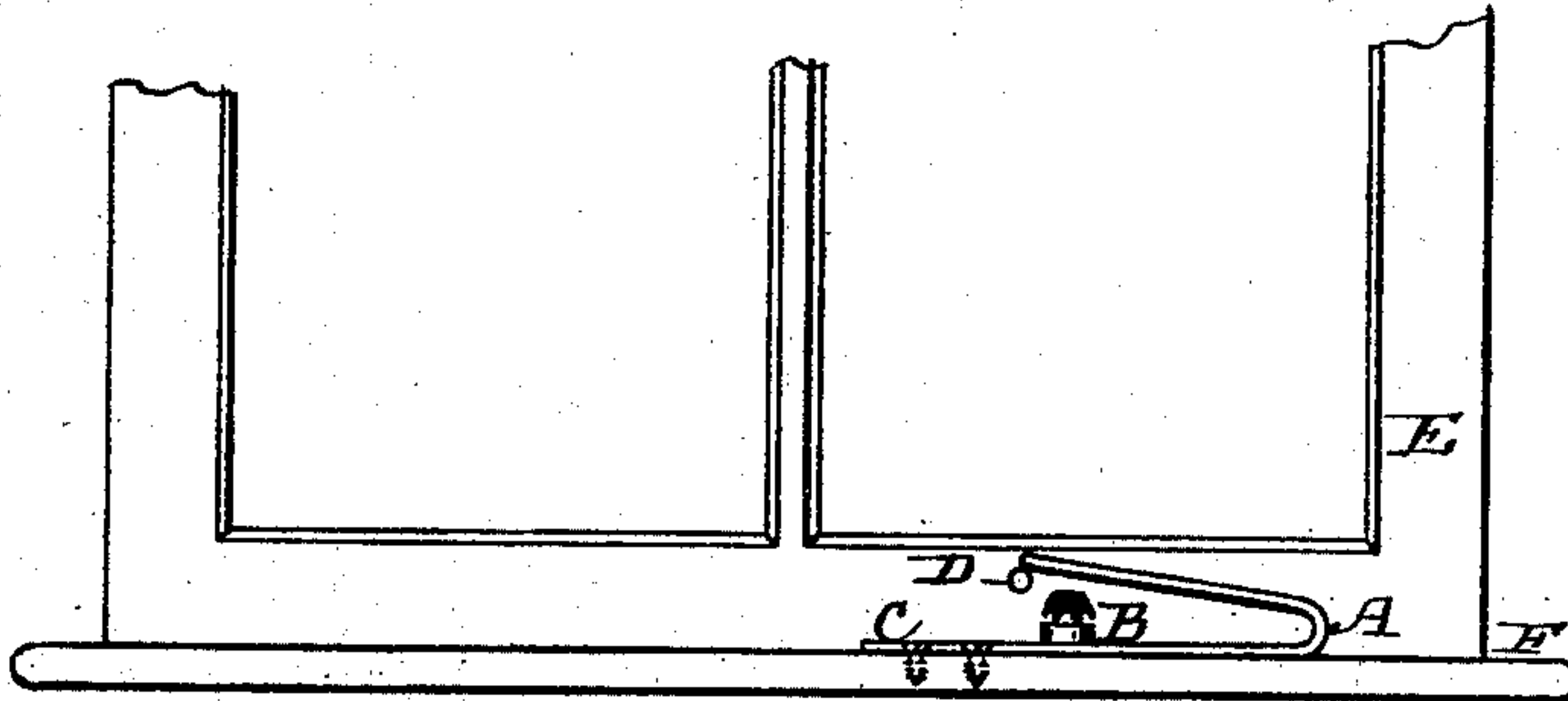


Fig. 3.

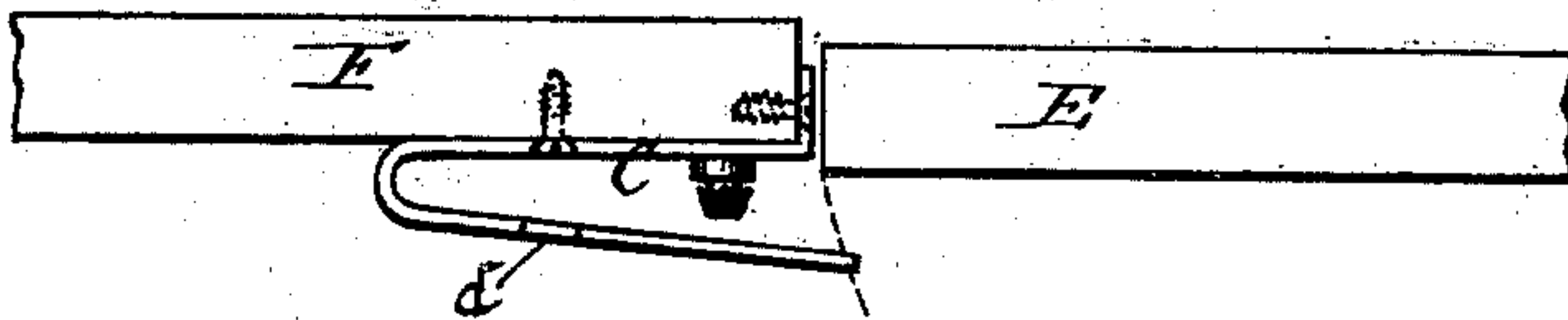
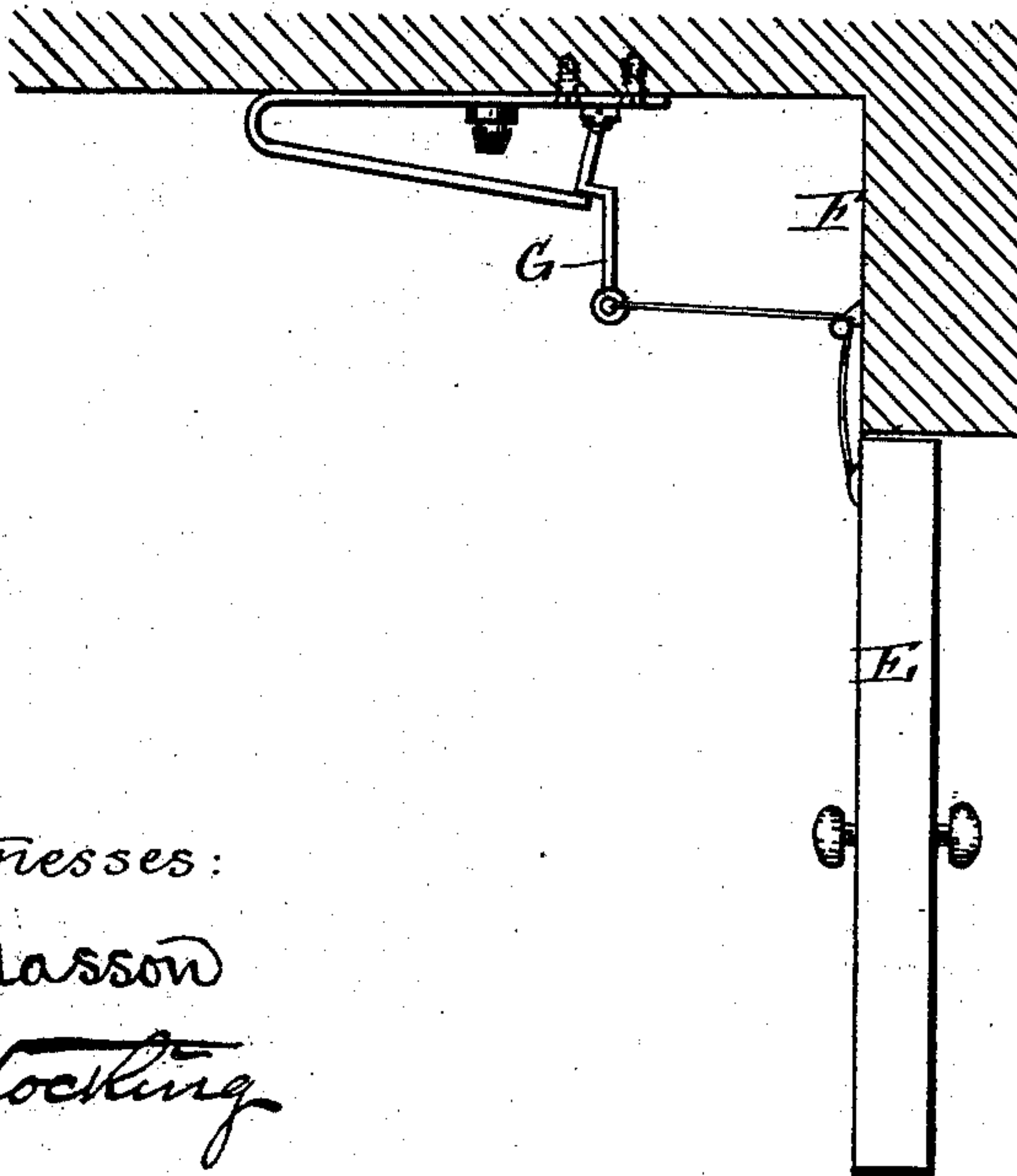


Fig. 4.



Witnesses:
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Inventor:

By *[Signature]*
Att'y.

UNITED STATES PATENT OFFICE.

JEROME GILES, OF SOUTH BEND, INDIANA.

BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 252,095, dated January 10, 1882.

Application filed October 24, 1881. (No model.)

To all whom it may concern:

Be it known that I, JEROME GILES, a citizen of the United States of America, residing at South Bend, in the county of St. Joseph and State of Indiana, have invented certain new and useful Improvements in Percussion 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 is a perspective of my improved percussion burglar-alarm. Fig. 2 represents the same applied to a window. Fig. 3 illustrates its application to a door-casing, and Fig. 4 shows a modified form of its application to a door.

Like letters of reference refer to like parts in all of the figures.

The object of my invention is to provide a simple, cheap means of protection to doors and windows, so that in case of an unauthorized opening of the same an alarm will be sounded; and my invention relates to that class of alarms which may be termed "detonating" or "percussion" alarms, and in which a spring-operated lever is released from confinement in a compressed or depressed condition at the moment that a door or window to which the device is attached is opened or partly opened, when the lever so released is immediately and forcibly brought against a nipple, which, being supplied with an ordinary percussion-cap, produces a report which gives warning of the opening of said door and window.

A represents the form of my device; and it consists of a U-shaped spring, A, of flat steel, and having one of the legs of the U extended beyond the other, in which extension are two screw-holes, C, properly countersunk, and a nipple, B, so located that the shorter leg of the spring projects over and beyond the same, and when in its normal position the said shorter leg of the spring rests and bears upon said nipple. If desired, the longer leg may be provided with screw-holes between the nipple and the bend of the spring, as seen at *d*, Fig. 3, in which case holes may be provided in the shorter leg, through which the fastening-screws may be in-

serted and driven, and, if desired, two or more nipples may be provided with seats in, or, in other words, may be attached to, the longer or lower leg of the spring.

To use my device at and with a window the longer leg is secured to the sill F, Fig. 2, by the screws C, and a screw or pin, D, is driven into the sash in such a position that it will just lift and depress the upper leg of the spring as it is raised and lowered. To set the alarm the upper leg is raised by the sash, or it may be by the hand, and a cap is placed upon the nipple and the leg lowered carefully until it rests on the pin D. It will readily be seen that if the sash be now raised the leg of the spring is also raised and will be released when under tension, and will strike and explode the cap, causing the alarm or report to be sounded.

In applying the device to a door it may be secured to the casing F by bending the extension of the lower leg at a right angle and securing it by the screws within the door-casing; or this bent portion may be dispensed with and the screws C be placed back of the nipple, as above mentioned, and as clearly shown in Fig. 3. A screw in the edge of the door E, or the edge of the door itself, may perform the function of exploding the cap, as does the pin D.

In Fig. 4 I have illustrated a modified arrangement of the device, wherein I secure it to the ceiling and attach a latch, G, which holds the spring distended, and is connected to the door E by a cord or wire passing through suitably-located screw-eyes, and attached to the latch G in such a manner that the opening of the door releases the spring from the latch and sounds the alarm.

My device is exceedingly simple and adapted to be attached to any openings usually occurring in buildings—such as doors, windows, skylights, or scuttle-holes, blinds, and window-screens, in which latter the wires of which they are composed, or an additional wire interlaced therein, may serve the function of pin D, so that when cut to gain an admittance, as they usually are, said wires or wire will release the spring and produce the alarm.

I do not wish to be limited to the particular manners herein shown of applying my alarm, as it may be attached to the door or window or to the casing of either, as it is evident that the

spring and pin will co-operate when one is attached to the moving part and the other to the stationary part of an entrance, and by lengthening the cord attached to latch G a door or window may be guarded when partly open, as for ventilation.

I am aware the U-shaped alarms have been used, and with a screw formed integral therewith and an operating-lever located between the nipple and bend of the spring, and do not claim such as of my invention; but,

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

As an article of manufacture, the flat steel U-shaped spring A, the short leg of which is provided with the nipple B and screw-holes c, and the long leg of which is provided with the aperture d, and arranged, when not under strain, to rest upon the nipple B, substantially as shown and described.

In testimony whereof I have affixed my signature in presence of witnesses.

JEROME GILES.

Witnesses:

LUCIUS HUBBARD,
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