

A. J. Loomis,

Burglar Alarm.

No. 47,841.

Patented May 23, 1865.

Fig. 1.

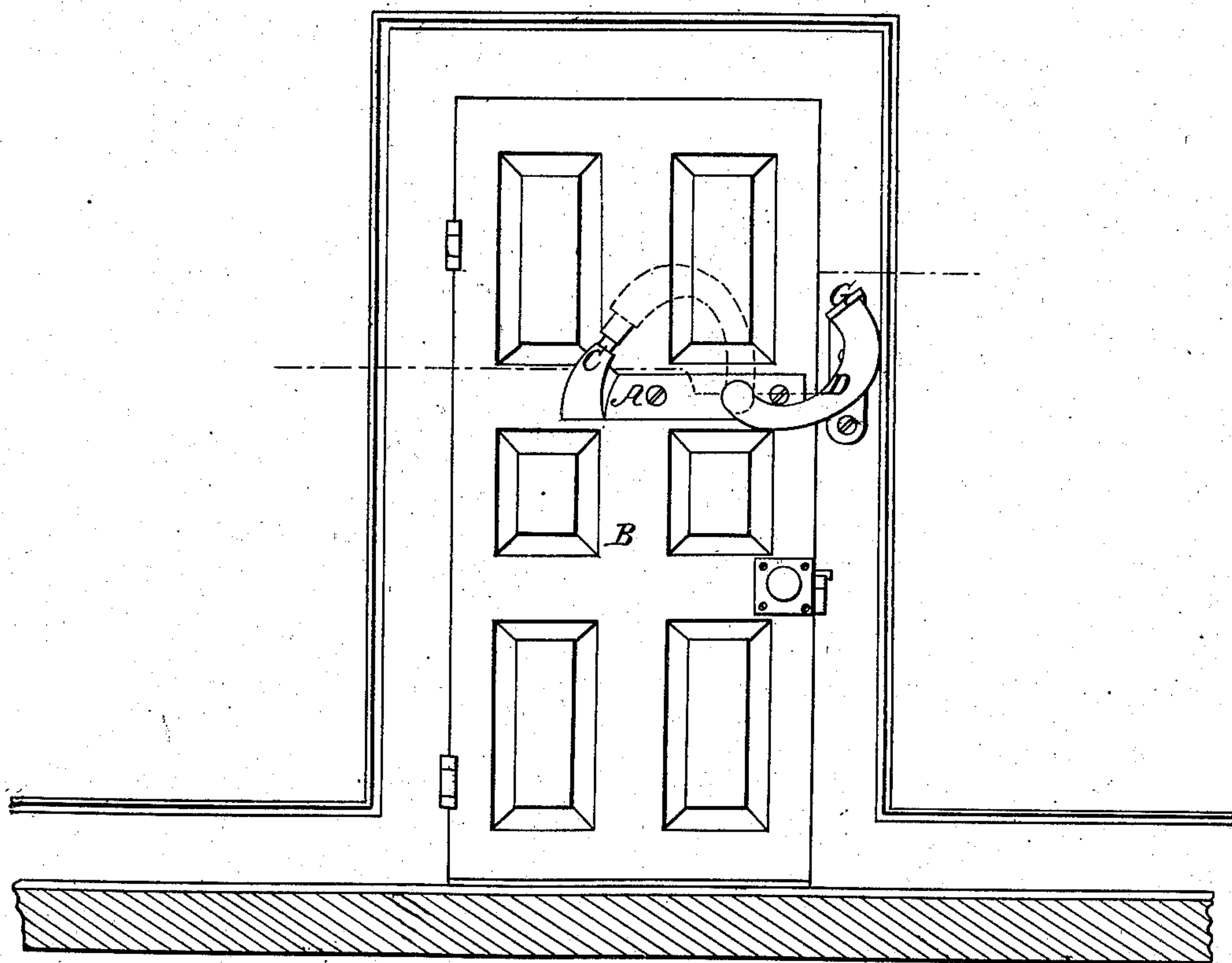
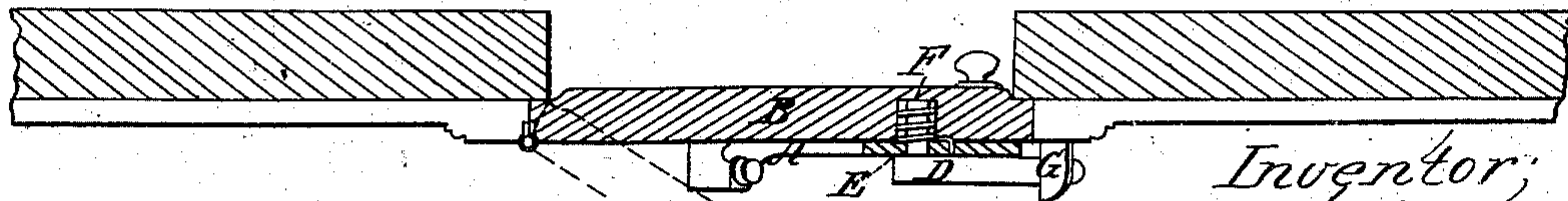


Fig. 2.



Witnesses;
Charles D. Smith
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UNITED STATES PATENT OFFICE.

ANDREW J. LOOMIS, OF MADRID, NEW YORK.

BURGLAR-ALARM.

Specification forming part of Letters Patent No. 47,841, dated May 23, 1865.

To all whom it may concern:

Be it known that I, ANDREW J. LOOMIS, of Madrid, St. Lawrence county, State of New York, have made certain new and useful Improvements in Burglar-Alarms, or instruments intended to make an alarm on the surreptitious opening of a door; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a front view or elevation of the machine seen in position attached to a door. Fig. 2 is a section of the same on the line *xx*, Fig. 1, showing the position of the spring which vibrates the hammer.

Similar letters of reference indicate corresponding parts in the two figures.

The object of this improvement is to provide a detonating arrangement to be attached permanently or otherwise to a door, the trigger of which shall be held back by a pin or projection on the door-post so that on the surreptitious opening of the door the hammer shall be released and the cap exploded, whether the report shall be increased by a charge in a chamber under the fulminate being a matter of taste or to be determined by the location of the door so protected or the propinquity of the parties supposed to be within hearing.

It consists of a plate, A, properly secured to a door, B, and having upon it a nipple or stump, C, upon which a percussion-cap is to be placed. A hollow in the end of the nipple may contain an extra pellet of fulminate or a charge, or may lead to a charge-chamber as in ordinary nipples. Generally, it is thought that the report of a well-charged cap will be sufficiently audible to answer the purpose intended by this device. The hammer D has a pivoted shaft, E, upon which is wound a spiral spring, F, which constantly tends to project the hammer toward the nipple. The spring is connected to the hammer-shaft E and the plate C, and the shaft and spring occupy a

small cylindrical recess in the door under the plate A.

The whole apparatus consists of but three pieces and is about as simple as it can well be made.

The detaining lug or pin G is attached to the door-post.

To operate the device, as the door is closed the hammer is retracted so that it catches behind the projection G and the door latched. A percussion-cap is then placed on the nipple, and the apparatus is set for the detection of the opening of the door, which in withdrawing the hammer from the catch releases it to the action of the spring and explodes the cap. This does not form a safeguard against the opening of a door, but insures the notification of the fact to the party interested under ordinary circumstances, which is all that I propose to do, as it is beyond my province to attempt to secure infallibility. It may also be set in connection with places of valuable deposits, or so charged and attached to places in public situations as to afford publication to the neighbors of any tampering with the door or shutter to which it was connected.

I shall not attempt to anticipate all the locations and conditions to which it is or may be applicable.

Having thus fully, clearly, and exactly described the nature, construction, and operation of my invention, what I claim therein as new, and desire to secure by Letters Patent, is—

The combination of the plate A, the hammer, with its axial shaft E and spring F, the catch G, the whole arranged substantially as described, and applied in the manner and for the purpose specified.

To the above specification of my improved burglar alarm I have signed my hand this 18th day of February, 1865.

Witnesses: ANDREW J. LOOMIS.
EDWARD H. KNIGHT,
CHARLES D. SMITH.