

J. S. RANNEY.
Burglar-Alarm.

No. 212,053.

Patented Feb. 4, 1879.

Fig. 1.

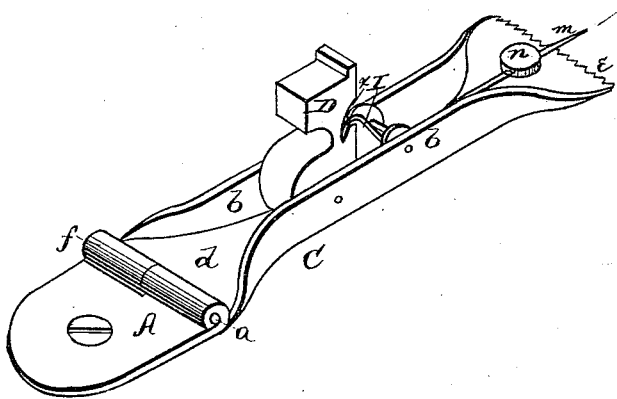
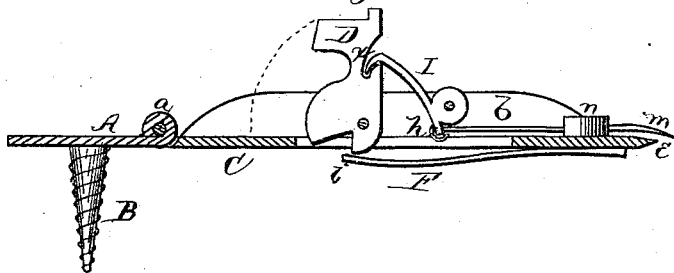


Fig. 2.



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IMPROVEMENT IN BURGLAR-ALARMS.

Specification forming part of Letters Patent No. **212,053**, dated February 4, 1879; application filed November 4, 1878.

To all whom it may concern:

Be it known that I, JOHN S. RANNEY, of Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in a Combined Window and Door Fastener and Burglar-Alarm; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

The nature of my invention consists in the construction and arrangement of a door or window lock combined with a burglar-alarm, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a perspective view of my invention. Fig. 2 is a longitudinal section of the same.

A represents a metal plate, of any suitable dimensions, provided with a screw, B, firmly riveted or otherwise fastened in the plate, in such a manner that it can be screwed into a door, the plate acting as a lever or handle for turning the screw. At one end of the plate A is a suitable projection, in which is fastened a pin, *a*, to form the pintle for a hinge.

It will be understood that in fastening the plate A to the door, the pin *a* will be at the lower end of the plate and in a horizontal position.

The main part C of my invention consists of a plate struck up to form longitudinal side flanges, *b b*, with a V-shaped or tapering receptacle, *d*, at the upper end. At the lower end is formed a broad toothed projection, *e*, the whole part C thus forming, as it were, a dog, at the upper end of which is formed an eye, *f*, to be placed on the pin *a*, and thereby hinging the dog to the plate A.

Between the side flanges, *b b*, of the dog C is pivoted a hammer, D, which is formed with a notch, *x*, in the rear side, as shown. This hammer is actuated by a spring, F, attached to the lower part of the dog, and operating through a slot in the same against a shoulder, *i*, on the hammer.

Below the hammer, and between the side flanges, *b b*, is pivoted a hook, I, to catch in the notch *x* and hold the hammer in a raised position. The hook I is formed, below the pivot-point, with a projection, *h*, to which is attached a wire tooth, *m*. This tooth passes through a post or guide, *n*, formed on the lower part of the dog C, and the end of said tooth projects slightly beyond the toothed projection *e* of the dog.

The part or dog C, with its attachments, can be easily attached to or detached from the plate A, which is fastened to the door. When attached to said plate by simply placing the eye *f* on the pin *a*, the dog hangs down in contact with the floor. The hammer D is raised and held up by the hook I, and a percussion wafer is placed in the tapering receptacle *d*, which retains it in proper position to be exploded by the hammer when the same is let down. When an attempt is made to open the door, the tooth *m* at once takes hold in the floor and raises the hook I out of the notch *x* in the hammer, so that the spring F will throw the hammer down forcibly and explode the percussion wafer, which forms the alarm, and the toothed end *e* of the dog then takes into the floor, so that the dog will form a brace to prevent the door from being opened.

It will thus be seen that in operation the alarm is sounded first, and then the same device which causes the alarm to be sounded forms a stop or brace to prevent the door from being opened.

The device is simple, cheap, and durable, and can be carried in the pocket, to be applied in any place or location where desired or thought necessary. It can also be applied to windows equally as well as to doors, and I do not confine myself to any particular place or position for its application.

The plate A always forms one leaf of a hinge, while the part or dog C forms the other and detachable part of the hinge.

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

1. In a combined door and window stop and burglar-alarm, the combination of the part A, forming one leaf of a hinge, and the part or dog C, forming the other part of the hinge and

carrying the alarm device, substantially as herein set forth.

2. The detachably-hinged dog C, formed with the side flanges, *b b*, and the tapering receptacle *d*, in combination with the hammer D, provided with notch *x*, the wire tooth *m*, and hook I, all constructed substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own invention I affix my signature in presence of two witnesses.

JOHN S. RANNEY.

Witnesses:

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