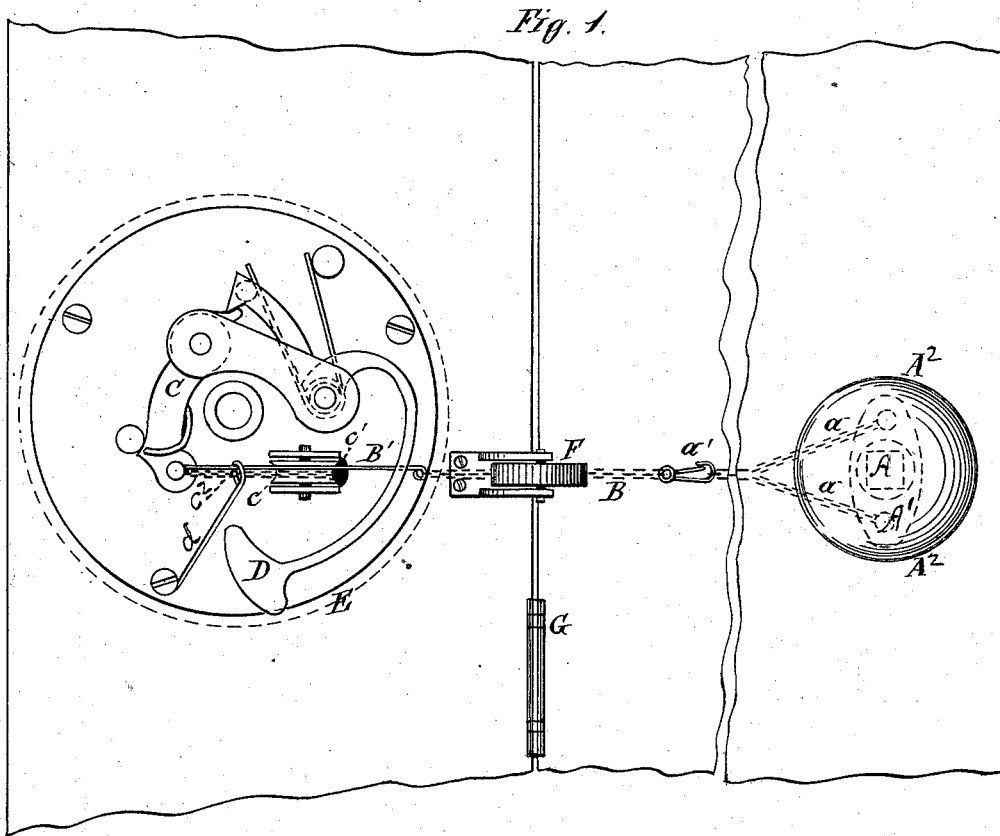
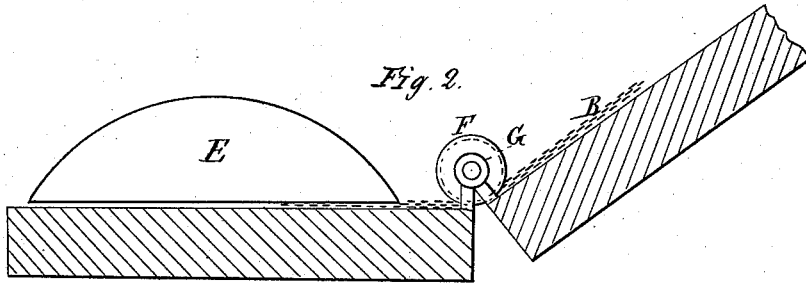


J. A. WEED.
Burglar-Alarm.

No. 164,888.

Patented June 22, 1875.



Witnesses
Henry Orth
Geo. B. Coburn

Inventor
James A. Weed
by H. H. Doubleday
att'y.

UNITED STATES PATENT OFFICE.

JAMES A. WEED, OF BINGHAMTON, NEW YORK, ASSIGNOR TO H. H. DOUBLEDAY, OF WASHINGTON, DISTRICT OF COLUMBIA.

IMPROVEMENT IN BURGLAR-ALARMS.

Specification forming part of Letters Patent No. 164,888, dated June 22, 1875; application filed May 3, 1875.

To all whom it may concern:

Be it known that I, JAMES ALEXANDER WEED, of Binghamton, in the county of Broome and State of New York, have invented certain new and useful Improvements in Combined Door-Bell and Burglar-Alarm; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification:

Figure 1 represents a side elevation of a door having my invention applied to it, the bell being removed to more clearly show the striking mechanism, and Fig. 2 a horizontal section of a part of the same.

A is the spindle of the latch, which may be of any ordinary or approved construction. A¹ is a two-armed lever, attached to and operated by the spindles. *a a* are chains extending from each end of lever A¹ to a hook, *a'*. B is a chain connecting hook *a'* with a wire, B', which in turn is attached to the tripping-lever C of the striking mechanism. As any of the many well-known constructions of devices for actuating the hammer D may be employed, it is not necessary to enter into a detailed description of this part, any further than to state that in the one which I have adopted the chain *c*² runs over pulley *c*, and is connected, through an opening represented at *c'*, with a bell-pull, the shank of which is arranged at a right angle to chain B. The bell is represented at E. F is a pulley, supported on a line substantially coincident with the pivots of the hinges G, upon which the door is hung. When the knob A² is turned in either direction to unlatch the door, the movement of lever will draw the

chains and strike the bell, as will be readily seen without further description. *d* is a guide through which the chain *c*² and the chain or link B' pass, the object of this guide being to insure that when lever *c* is operated by either the chain or the link the idle one shall not be displaced from its proper position.

By an examination of Fig. 2, it will be seen that in case from the shrinkage of the door, or from any other reason, the latch can be withdrawn without necessitating moving lever A¹ far enough to ring an alarm, the act of opening the door will, under the arrangement of parts there shown, produce a movement of the chain which will strike the bell. When it is desired to throw the alarm out of action, the hook *a'* may be detached from chains *a a*.

Having thus described my invention, what I claim is—

1. The combination, with the chain *c*² and chain or link B', of the guide *d*, substantially as set forth.

2. The combination, with the tripping-lever C, of the chains *c*² B *a a*, link B', spindle A, lever A¹, and the detachable fastening *a'*, whereby the bell E may be used as a door-bell only, or as a door-bell and burglar-alarm, substantially as set forth.

3. The combination, with the lever A¹, the striking mechanism, and the connecting-chains, of the pulley F, by which the opening of the door serves to operate the alarm, substantially as set forth.

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

JAMES A. WEED.

Witnesses:

ROBT. BROWN,
MOSES E. CONKLING.