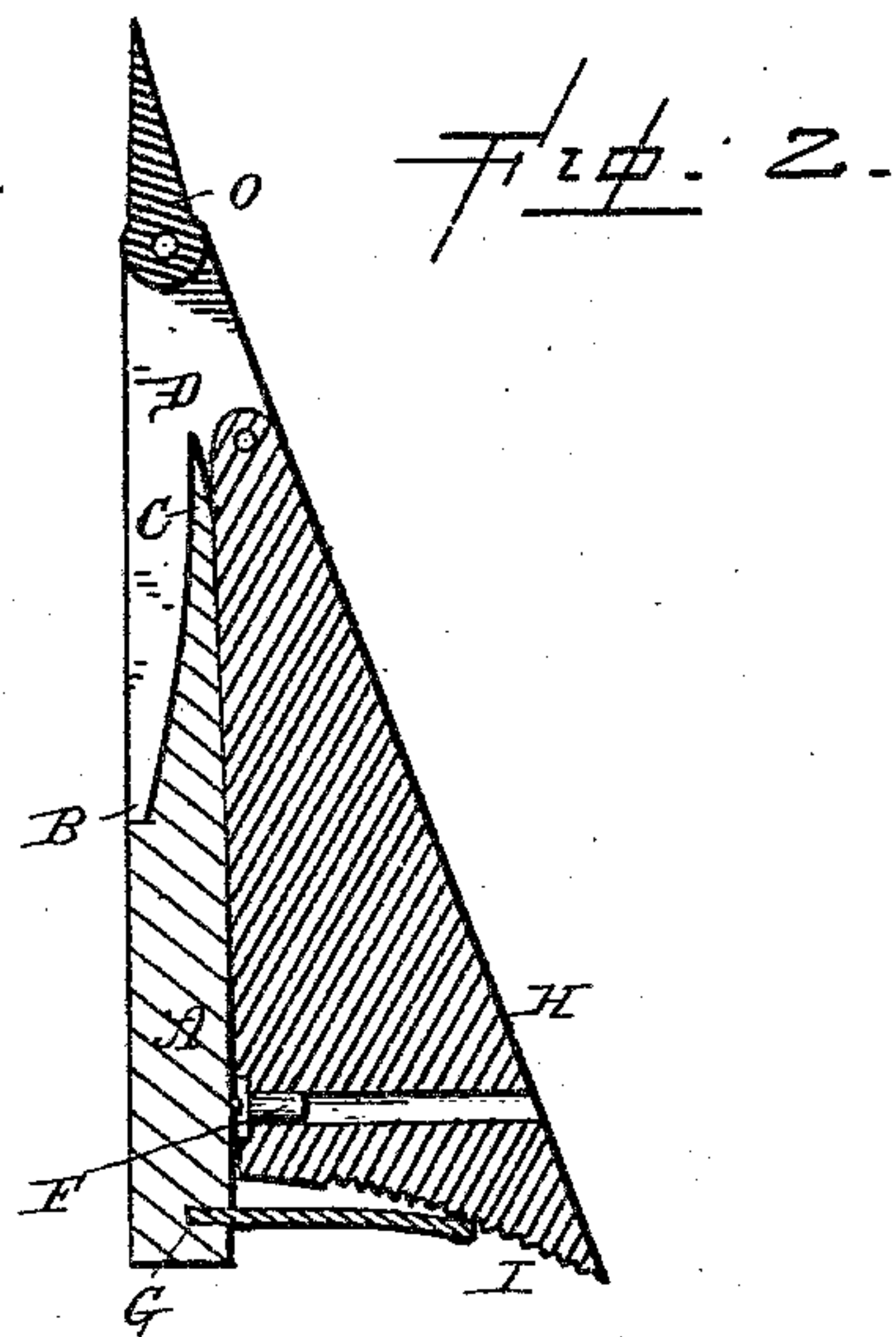
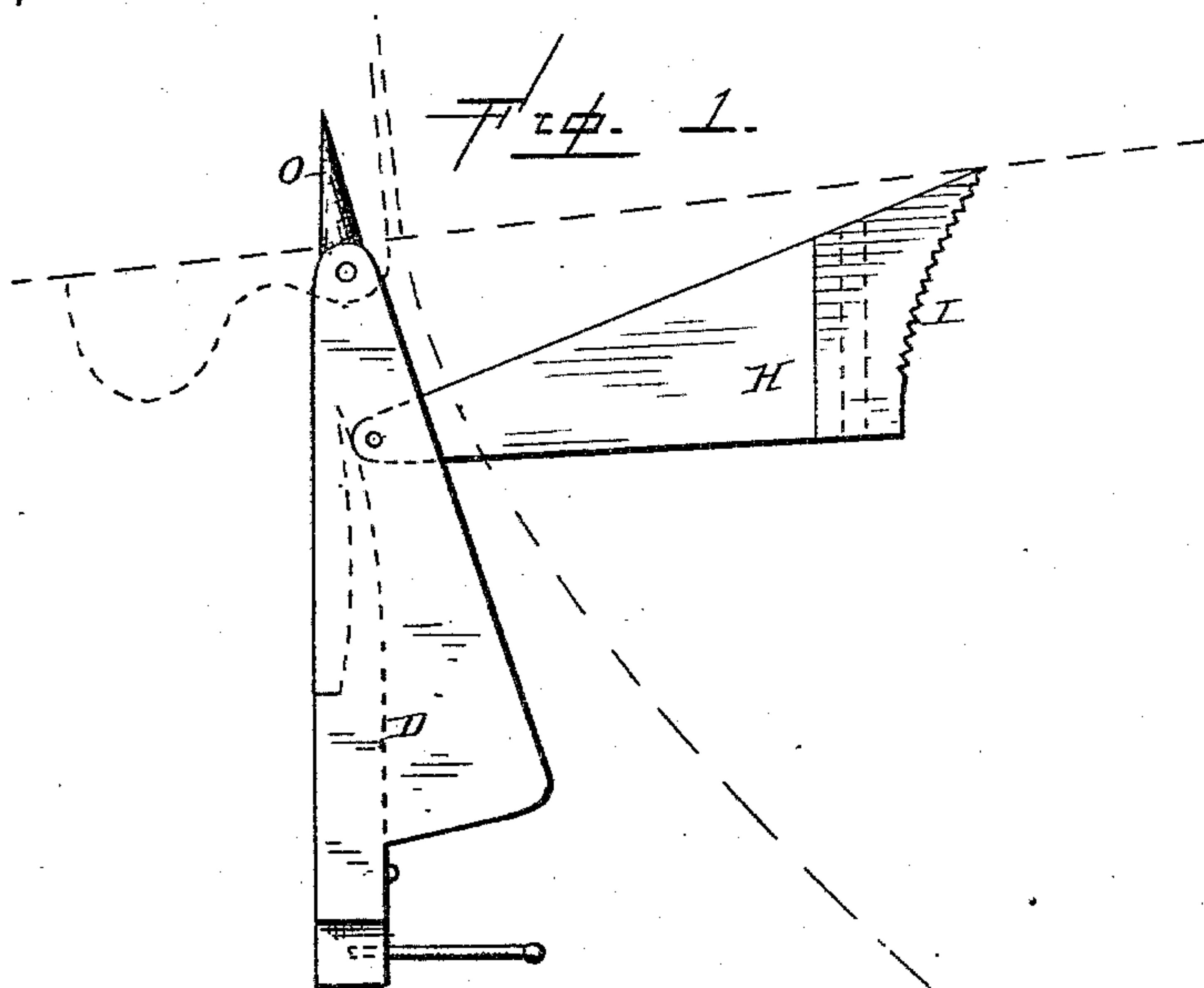


(No Model.)

H. FERRIS.  
BURGLAR ALARM.

No. 286,598.

Patented Oct. 16, 1883.



— WITNESSES. —

Louis F. Cardner  
J. W. Garner

— INVENTOR. —

Hudson Ferris  
per J. A. Lehmann  
Atty



# UNITED STATES PATENT OFFICE.

HUDSON FERRIS, OF CHICAGO, ILLINOIS.

## BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 286,598, dated October 16, 1883.

Application filed July 10, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, HUDSON FERRIS, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful  
5 Improvements in 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 pertains to make and use it, reference being  
10 had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in burglar-alarms; and it consists in the combination of suitable side pieces, which have the  
15 combined bottom bar and spring pivoted between them, with the hammer, which has a socket for a cartridge and a roughened surface for striking a match as it falls, and which has its inner end to bear upon the inner end  
20 of the operating-spring, and a pivoted screw, by means of which the alarm may be fastened upon any suitable support, all of which will be more fully described hereinafter.

The object of my invention is to provide a  
25 burglar-alarm which is so shaped as to be operated by the opening of the door, and then to act as a wedge, so as to prevent the door from being opened any farther, and which will both sound an alarm and strike a light at the  
30 same time.

Figure 1 is a side elevation of my invention, showing the hammer raised. Fig. 2 is a vertical longitudinal section of the same, showing the hammer closed.

35 A represents the bottom bar, which has a shoulder, B, formed in its under side at any suitable point, and then the bar is made thinner from this shoulder on to its inner end, so as to form the operating-spring C. This  
40 combined bar and spring is rigidly secured between the side pieces, D, which are made wedge shape, as here shown, so that they will allow the door to be just opened far enough to set off the alarm and then prevent the door  
45 from being opened any farther. This bottom bar has a projection, F, formed upon its top, for the purpose of exploding the cartridge, and has a socket, G, to receive a match, ta-

per, or any other equivalent object or device, which will be ignited by the falling of the ham- 50  
mer. The hammer H is pivoted between the side pieces near their front end, and is preferably made of the shape here shown. In its outer end is formed a socket to receive a cartridge, and its outer end is beveled away and 55  
roughened, as shown at I, so that when the hammer falls the match or taper held in the socket will strike against this curved roughened part, and thus be ignited. When the hammer is in the position shown in Fig. 2, it 60  
exerts no pressure upon the spring; but when the hammer is raised into position its inner end bears down upon the spring to such an extent that when the hammer falls the spring acting on this inner end forces the hammer 65  
downward with force enough to explode the cartridge and light the match or taper. Between the inner end of the side pieces is pivoted a screw, O, which is to be screwed into the floor or any other suitable support, and 70  
thus hold the alarm rigidly in place. In using the alarm the screw will be inserted into the floor close to the door, so that when the door is being opened it strikes against the hammer and knocks it down, and then runs upon the 75  
top edges of the side pieces, which act as a wedge to prevent the door from opening any further. By this construction an alarm is given, the door is prevented from being opened, and a light struck at the same time. 80

Having thus described my invention, I claim—

In a burglar-alarm, the combination of the wedge-shaped side pieces, the combined bottom bar and spring having a socket to hold 85  
the match or taper, and the hammer, which has its end curved and roughened so as to ignite the match or taper, substantially as set forth.

In testimony whereof I affix my signature in 90  
presence of two witnesses.

HUDSON FERRIS.

Witnesses:

WILLIAM H. CASS,  
THOMAS J. McGRATH.