

W. G. SPIEGEL.
BURGLAR ALARM.
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1,030,138.

Patented June 18, 1912.

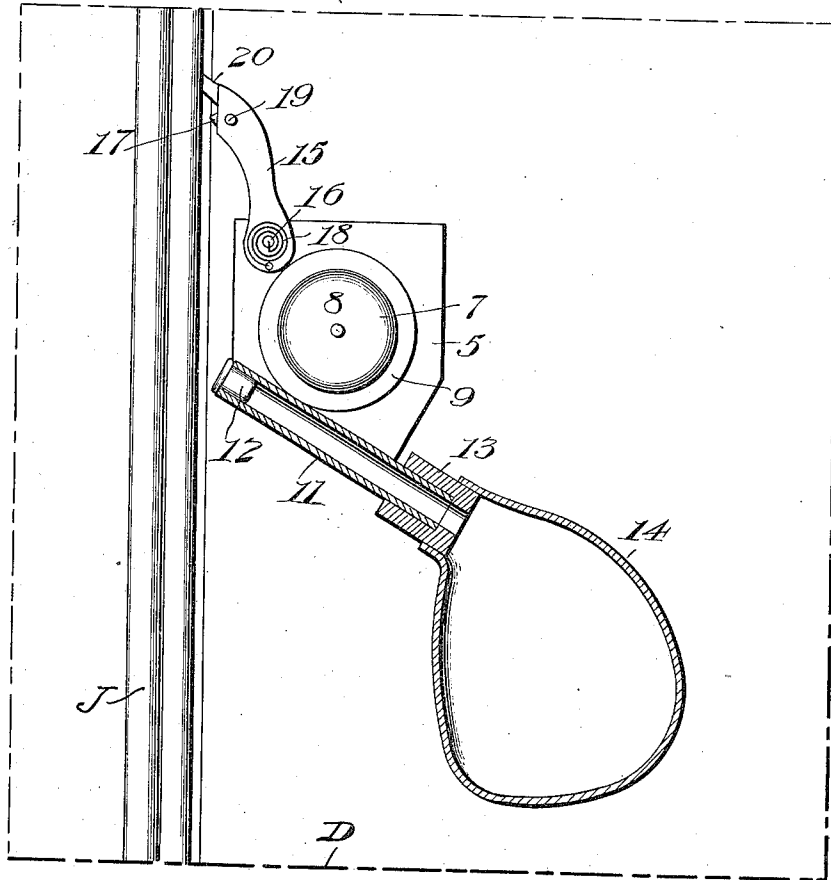


Fig. 1.

Fig. 3.

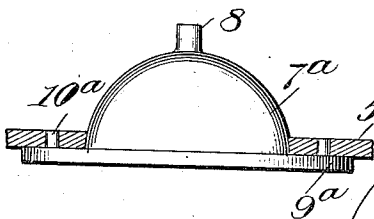


Fig. 2.

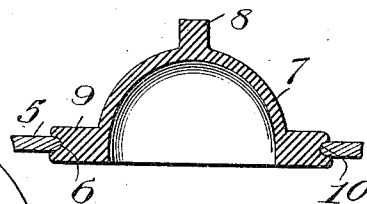
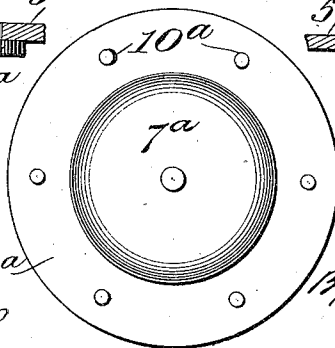


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

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BURGLAR-ALARM.

1,030,138.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM G. SPIEGEL, a citizen of the United States, residing at New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Burglar-Alarms, of which the following is a specification.

The present invention relates to burglar alarms, and the object is to provide a simple compact device of this character that can be readily carried in the pocket, and can be mounted in operative position upon any supporting surface, such as a door or frame without the necessity of employing screws or other fastening devices that would mar the woodwork.

A further and important object is to provide alarm mechanism, in the form of cartridge-exploding means, and to employ in connection therewith a receiver for the cartridge wads, sparks and products of combustion so as to effectively prevent any danger of the same igniting adjacent articles.

The preferred form of construction is illustrated in the accompanying drawings, wherein:—

Figure 1 is a view partially in elevation, and partially in section of the alarm. Fig. 2 is a detail longitudinal sectional view through the base, illustrating one manner of mounting the vacuum holder thereon. Fig. 3 is a sectional view through another form of construction. Fig. 4 is a plan view of the vacuum holding device illustrated in Fig. 3.

Similar reference numerals designate corresponding parts in all the figures of the drawings.

In the embodiment illustrated, a base 5 is employed having an opening 6 therethrough. In this opening is fitted a vacuum holding device in the form of a rubber or other elastic cup 7 having an open side disposed on one side of the base and having a central projection or knob 8 arranged on the opposite side. This cup may be mounted in various ways. Thus in Fig. 2, said knob is provided with an annular flange 9 having a peripheral groove 10 therein that receives the edge walls of the opening 6. In Figs. 3 and 4, the cup, which is designated 7^a has an annular flange 9^a provided with a plurality of projections 10^a that are forced into sockets in the base.

Secured to the lower margin of the base, is an open ended barrel 11, one end of which is designed to receive a cartridge 12, while detachably fitted on the other end is a sleeve 13 preferably of rubber or other elastic material. Secured to this sleeve in any suitable manner is a receiving receptacle or bag 14 preferably of fire-proof material. A hammer 15 is pivoted as shown at 16 upon the upper portion of the base, and is provided with a projection 17 that will strike the cartridge 12 to explode the same. A spring 18, connected to said hammer and surrounding the pivot 16, constitutes means for swinging said hammer against the cartridge. This hammer furthermore has an actuating knob 19 and a projection 20, the latter of which is arranged to engage a door jamb J to hold the hammer against movement.

In using the device, the base is placed upon a supporting surface (as a door D) at the desired point, and the cup is compressed to produce a partial vacuum therein, so that the air pressure will maintain the base in place. A cartridge having been introduced into one end of the barrel, the bag is fitted upon the other end, and the hammer is then moved against the action of the spring until the projection 20 is engaged with the door jamb J. The parts will thereupon be in the position shown in Fig. 1, and will retain this position until the door is opened, whereupon the hammer being released, will swing around, and the projection 7 will strike the cartridge, exploding the same. The contents of said cartridge will of course be delivered through the barrel 11 into the bag 14, and the force of the explosion may detach said bag from the barrel. In any event, however, the products of combustion will be received in said bag or other receptacle, and consequently do no injury nor can they ignite any adjacent articles of inflammable material.

From the foregoing, it is thought that the construction, operation and many advantages of the herein described invention will be apparent to those skilled in the art, without further description, and it will be understood that various changes in the size, shape, proportion and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

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

5 A burglar alarm comprising a base having supporting means for engagement with a flat surface at any point, an open-ended barrel carried by said base and arranged to receive a cartridge in one end, a combustion and flame-smothering bag fitted to the other
10 end of said barrel, and a spring actuated

hammer pivoted to said base and arranged to have a movement over that end of the barrel which holds the cartridge.

In testimony whereof I hereunto affix my signature in the presence of two witnesses. 15

WILLIAM GEORGE SPIEGEL.

Witnesses:

S. B. GOODALE,

J. W. SMITH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents
Washington, D. C."
