

(No Model.)

G. W. McLAUGHEN & W. L. GALLANT.
BURGLAR ALARM.

No. 518,532.

Patented Apr. 17, 1894.

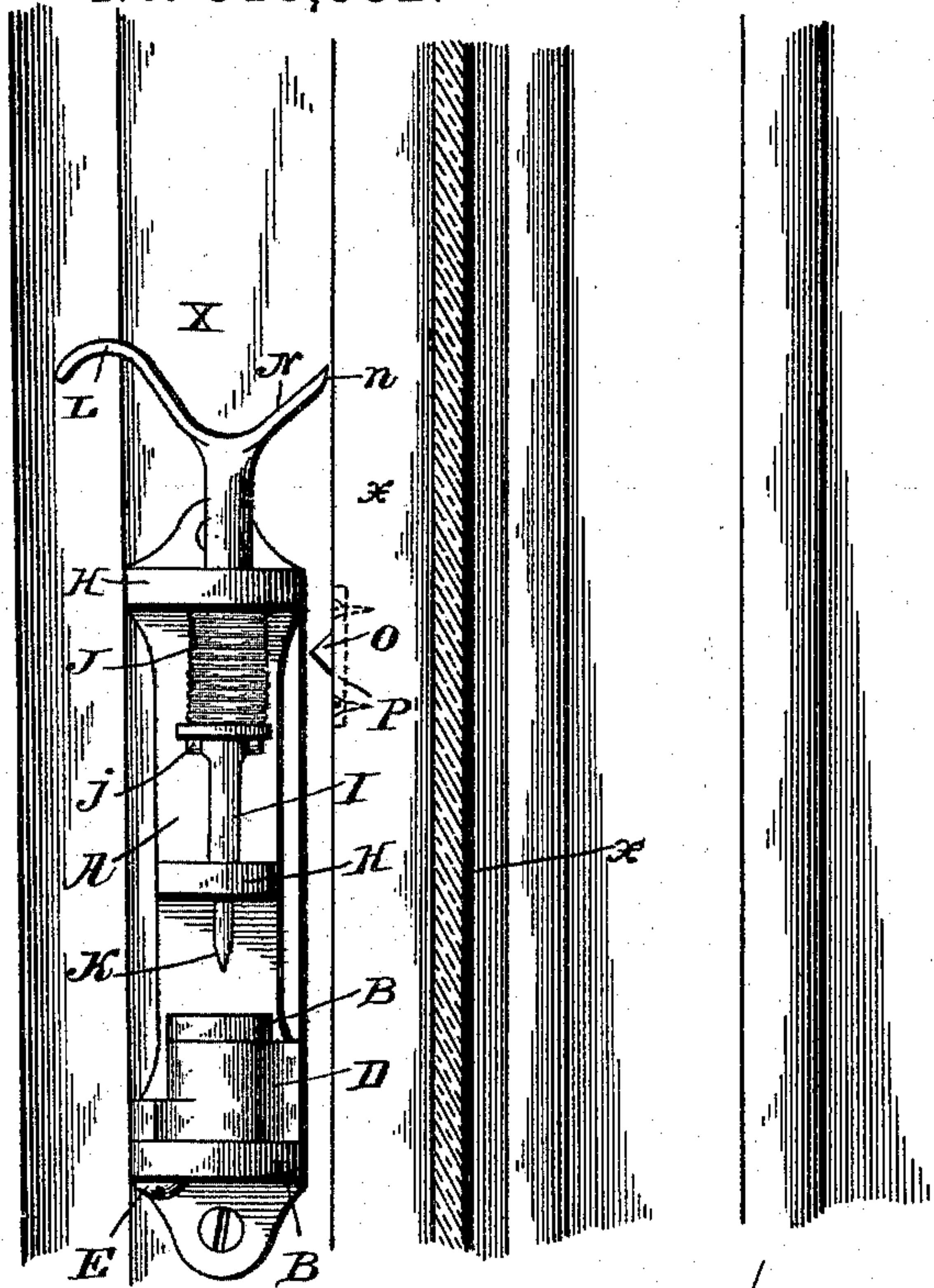


Fig. 1.

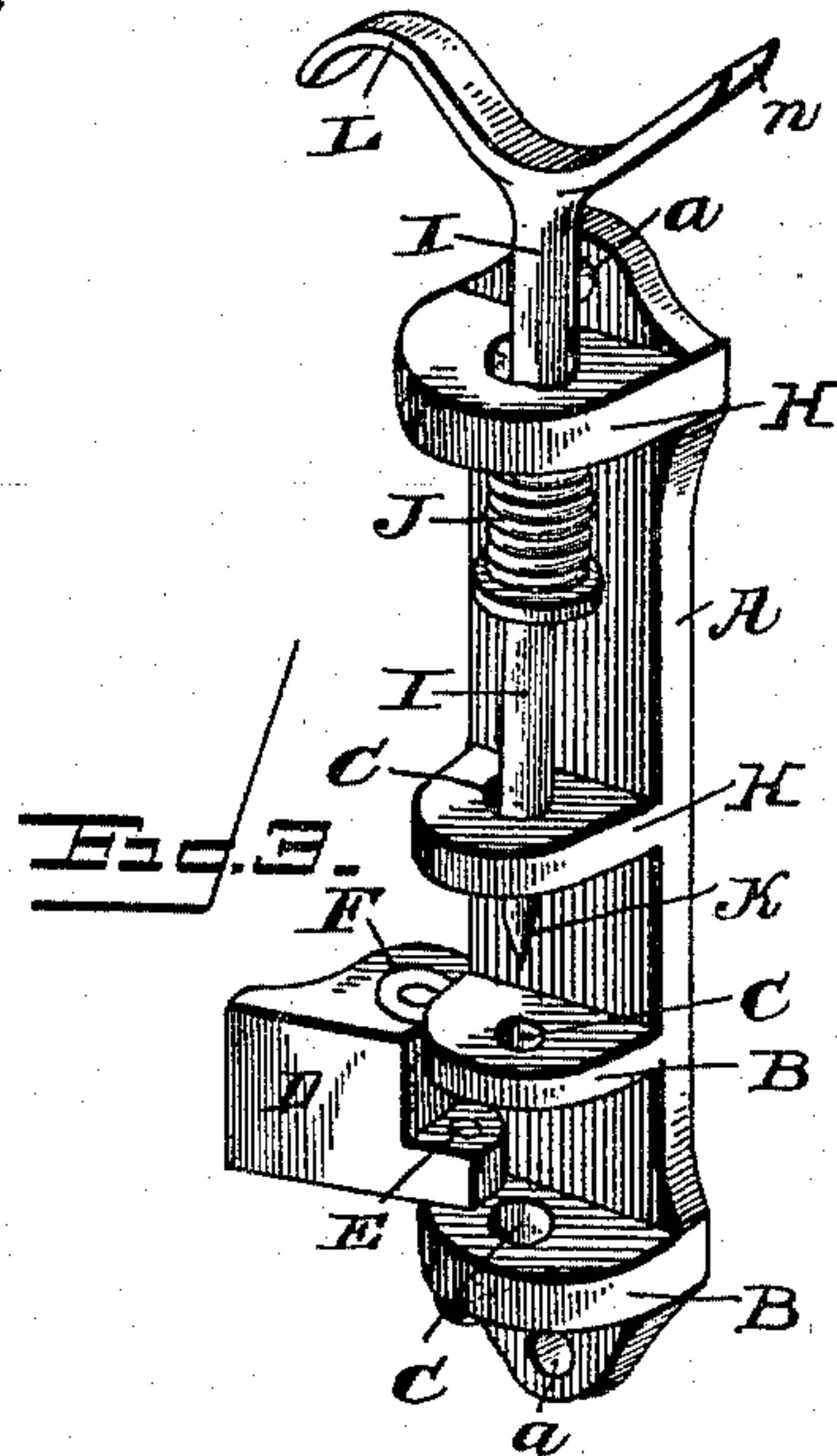


Fig. 2.

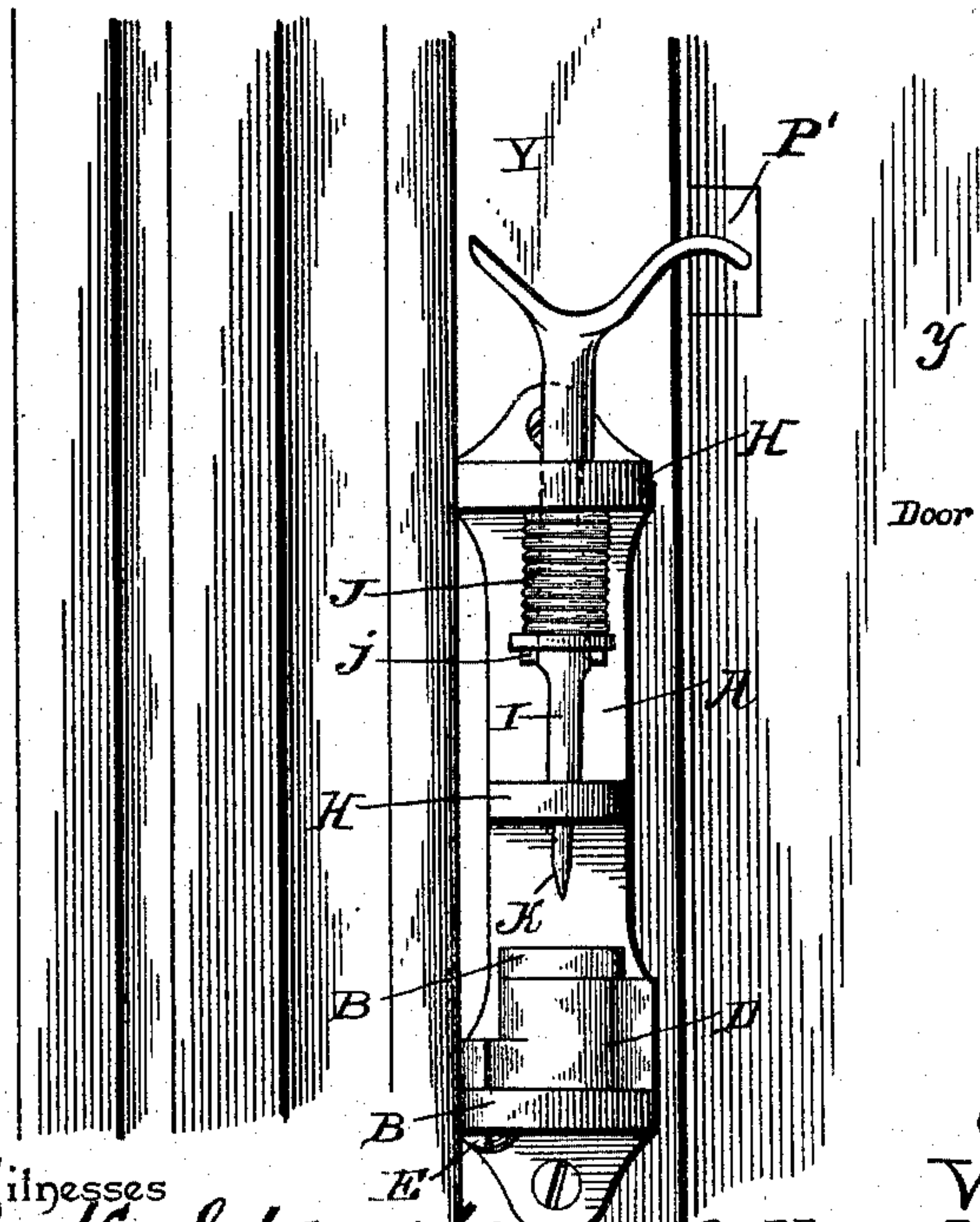
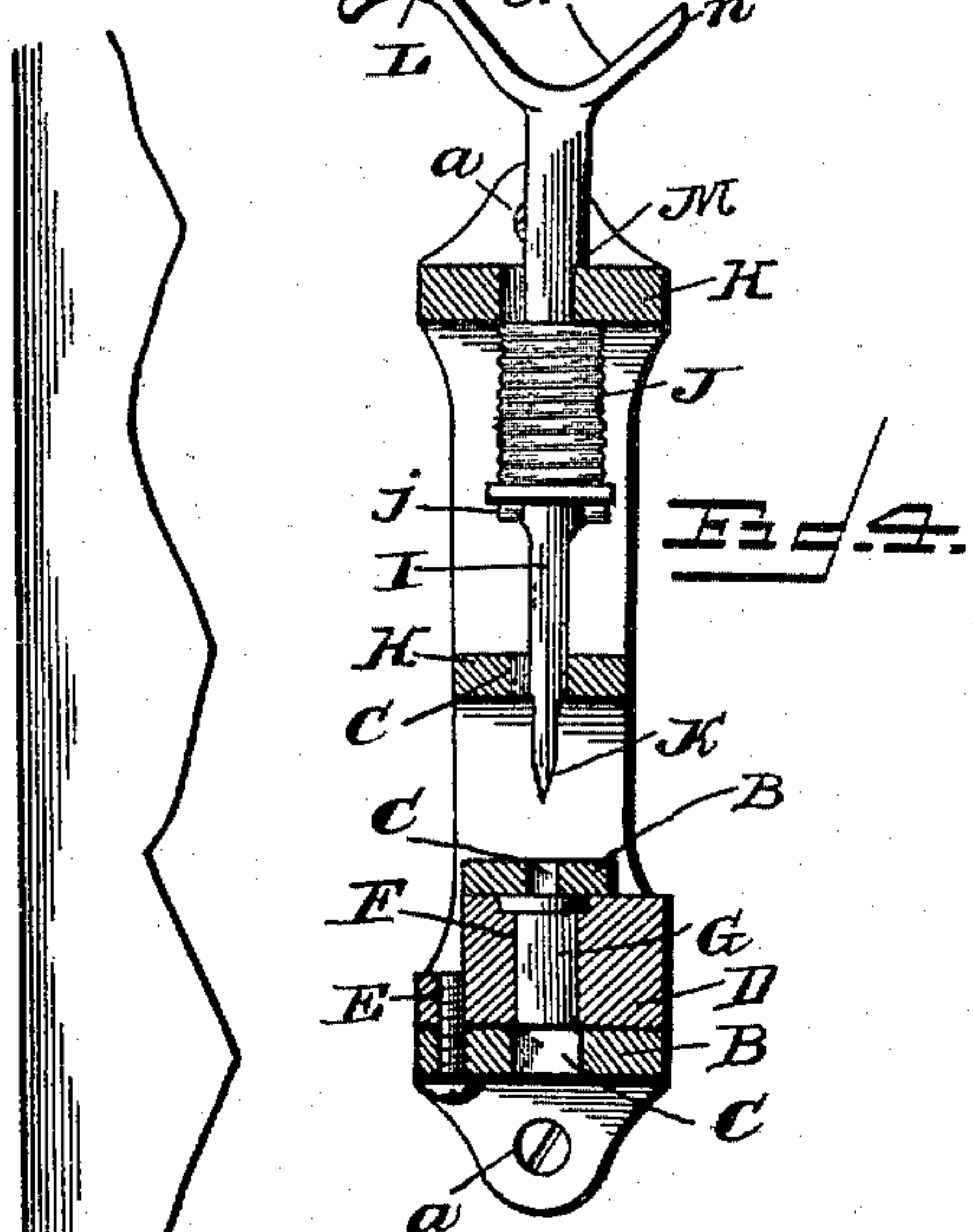


Fig. 3.



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UNITED STATES PATENT OFFICE.

GEORGE W. McLAUGHEN AND WILLIAM L. GALLANT, OF GASTONIA, NORTH CAROLINA, ASSIGNORS OF ONE-THIRD TO T. C. PEGRAM, OF SAME PLACE.

BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 518,532, dated April 17, 1894.

Application filed November 8, 1893. Serial No. 490,379. (No model.)

To all whom it may concern:

Be it known that we, GEORGE W. McLAUGHEN and WILLIAM L. GALLANT, citizens of the United States, residing at Gastonia, in the county of Gaston and State of North Carolina, have invented a new and useful Burglar-Alarm, of which the following is a specification.

This invention relates to burglar alarms; and it has for its object to provide a simple and efficient burglar alarm attachment which can be easily and readily attached to doors, windows, drawers, safes, and other similar objects whereby the opening thereof by a burglar or unauthorized person will cause a cartridge or other explosive to explode, and not only give a loud alarm, but also intimidate the burglar.

To this end the main and primary object of the present invention is to construct an alarm attachment of the character noted which shall dispense with bells and other similar devices apt to become easily disordered, while at the same time providing an attachment which will not at all detract from the appearance of the object to which it is attached.

With these and other objects in view, which will readily appear as the nature of the invention is better understood, the same consists in the novel construction, combination, and arrangement of parts hereinafter more fully described, illustrated, and claimed.

In the drawings:—Figure 1 is vertical sectional view of a portion of a lower window sash showing the burglar alarm attached to the sash frame at one edge thereof. Fig. 2 is a detail elevation of a portion of a door and its frame or jamb showing the attachment used in connection therewith. Fig. 3 is a detail in perspective of the attachment showing the hinged or pivoted shell holder swung outward from the attachment plate. Fig. 4 is a central vertical longitudinal sectional view of the construction shown in Fig. 3.

Referring to the accompanying drawings:—A represents an elongated attachment plate constructed of any suitable metal and shaped as may be desired according to the finish and appearance to be given to the completed attachment, and said attachment plate A, is

provided at its upper and lower ends with the screw openings *a*, adapted to receive suitable securing screws for fastening the alarm attachment to any desired object. As illustrated in Fig. 1 of the drawings, the attachment plate is shown as fastened at one side of a sash frame X, in close proximity to the moving lower sash *x*, so that means shall be provided for the sounding of an alarm when the sash is raised.

Near one end of the attachment plate A, the same is provided with the parallel off-standing holder lugs B, having aligned openings C, and adapted to accommodate therebetween the pivoted or hinged shell holder D. The shell holder D, is pivoted at one edge on the pivot screw E, to the outer one of the holder lugs B, thus leaving its other end free to be moved flat against the attachment plate or swung outward from between the said holder lugs when ejecting a discharged shell or loading the holder. The said pivoted or hinged shell holder D, is preferably of a rounded shape to register with the parallel lugs B, and thus give a finished appearance to the attachment, and the same is provided with a central shell opening F, therein which is adapted to receive an ordinary powder-cartridge G, which is adapted to be exploded in the holder while the contents of the cartridge are ejected by the explosion passes out through the opening C, of the outer one of said holder lugs.

Beyond the inner one of the holder lugs B, are arranged the separated perforated guide lugs H, which accommodate therein, for a reciprocating movement, the hammer-rod I. The hammer-rod I, is adapted to be normally pressed toward the shell holder D, by means of the coil spring J, arranged thereon between the guide lugs and having one end thereof bearing against the pin *j*, or other suitable fastening for connecting the spring with the hammer-rod. The said hammer-rod, which is thus normally moved toward the cartridge or shell, is provided at its inner end with an exploding point K, which, under the tension of the spring J, is moved into the opening of the inner one of the lugs B, and against the cartridge or shell in the holder

D, so as to explode the same, and the outer end of said hammer-rod is provided with a curved off-standing finger grasp L, which is grasped by the finger so as to move the hammer-rod outward against the tension of the spring and slip the catch shoulder M, into engagement with one edge of the outer one of the guide lugs H. The catch shoulder M, is located at a suitable point adjacent to one end of the hammer-rod, so that, when engaged with the said guide lug, it will hold the hammer-rod set for a sufficient play to explode the cartridge when the said shoulder is thrown off of the guide lug by the raising of the sash or opening of the door, drawer, or other object in connection with which the alarm is used. The outer end of the hammer rod I, is further provided with an angularly disposed trip-arm N, having an outer beveled extremity *n*, which is adapted to be engaged by the wedge or double beveled strike lug O, projected from the strike plate P. The strike plate P, is suitably secured to one side of the sash *x*, so that when the sash is raised any material distance, which is of course predetermined when mounting the attachment, the said wedge lug or projection will be moved against the trip-arm N, and thereby disengage the shoulder M, so that the hammer-rod will be forced against the cartridge to explode the same.

It will of course be understood that the relative position of the strike plate and the alarm attachment may be changed as may be required, it being simply necessary to have one part fixed to a stationary object adjacent to the moving object to which the other part must be attached, and as illustrated in Fig. 2 of the drawings the alarm attachment may be secured to one edge of a door-frame or jamb Y, while to one edge of the moving door *y*, is attached a strike plate P'. When the attachment is mounted as just described, the opening of the door will bring the strike plate P', against the trip arm and turn the hammer-rod sufficiently so that its catch shoulder will be disengaged and an alarm sounded.

The manner of attaching the alarm is accommodated to the object with which it is employed, and it will be further understood that changes in the form, proportion and the minor details of construction may be resorted to without departing from the princi-

ple or sacrificing any of the advantages of this invention.

Having thus described the invention, what is claimed, and desired to be secured by Letters Patent, is—

1. In a burglar alarm, the combination with a strike plate; of an attachment plate having separate perforated holder and guide lugs, a shell holder pivoted or hinged to one of the holder lugs and adapted to be swung between and out of the same, said holder being adapted to fill the space between the holder lugs and having a central shell opening agreeing with the perforations in the lugs above and below the holder and a spring-actuated hammer-rod mounted in said guide lugs and provided with a catch shoulder adapted to engage one edge of the upper one of the lugs, and an off-standing trip-arm at its outer end, substantially as set forth.

2. In a burglar alarm, the combination of a suitably arranged attachment plate having separate pairs of perforated holder and guide lugs, a swinging perforated shell holder pivoted or hinged at one end to one of the holder lugs and adapted to register in the space there-between, a reciprocating hammer rod mounted in the guide lug and provided at its inner end with a firing point, an intermediate catch shoulder, adapted to engage on one of the guide lugs and at its outer end with a curved off-standing finger grasp and an oppositely extending angularly disposed trip arm having an outer beveled extremity, and an actuating spring mounted on the hammer-rod between the guide lugs, either said finger grasp or said trip arm being adapted to be engaged by a suitable trip, substantially as set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

GEORGE W. McLAUGHEN.
WILLIAM L. GALLANT.

Witnesses to the signature of Geo. W. McLaughen:

C. B. ARMSTRONG,
I. N. ALEXANDER, Jr.

Witnesses to the signature of W. L. Gallant:

JOHN H. SIGGERS,
E. G. SIGGERS.