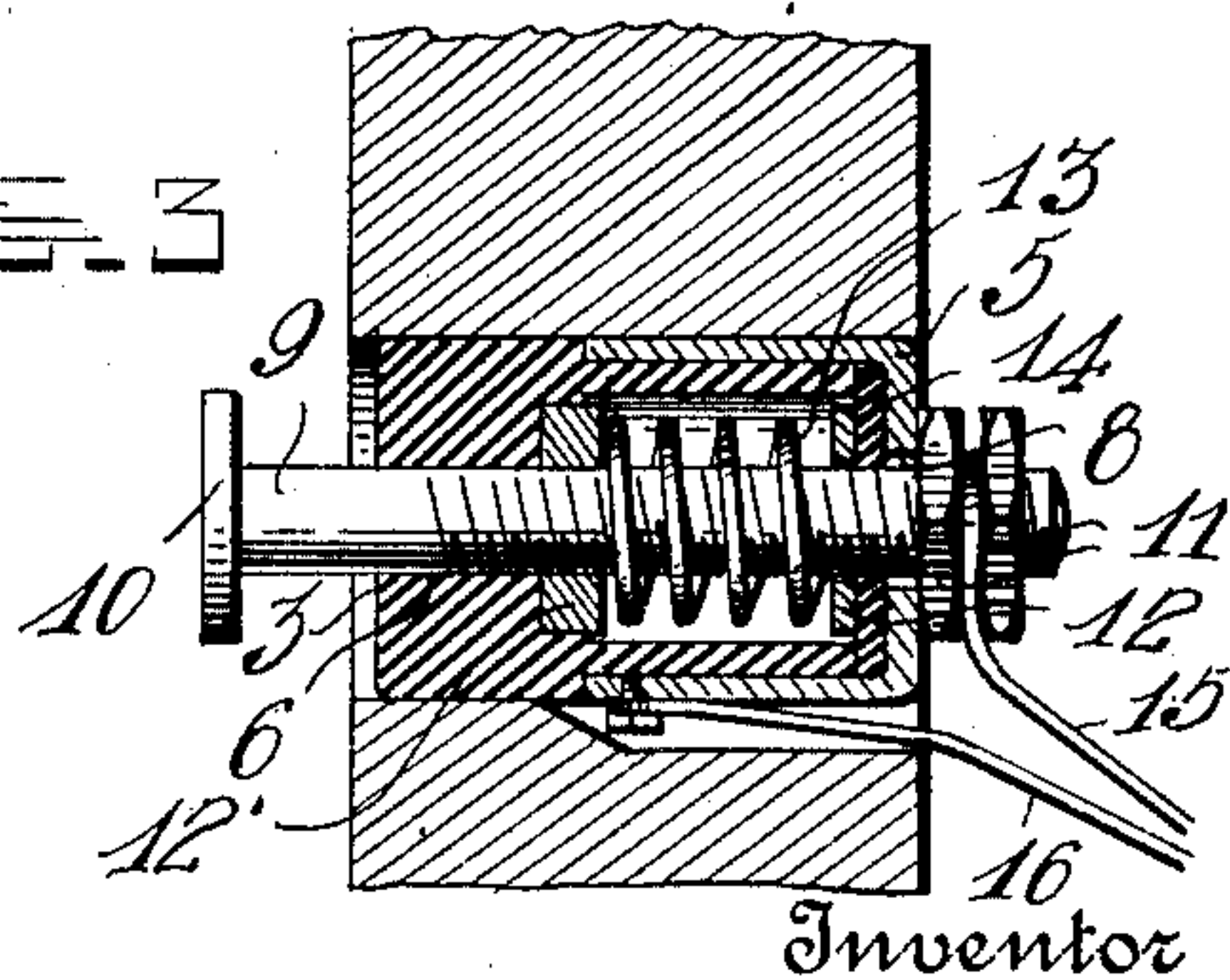
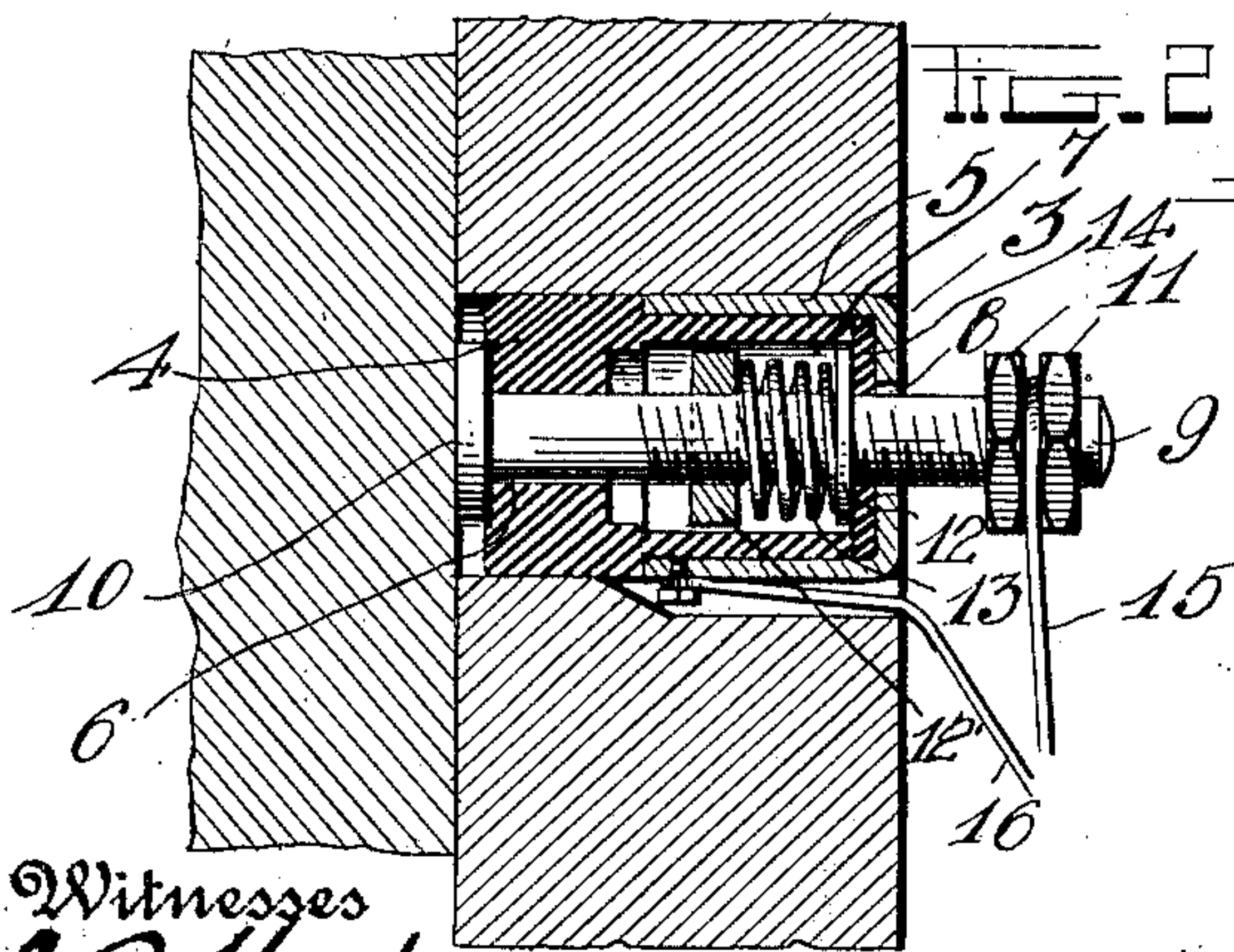
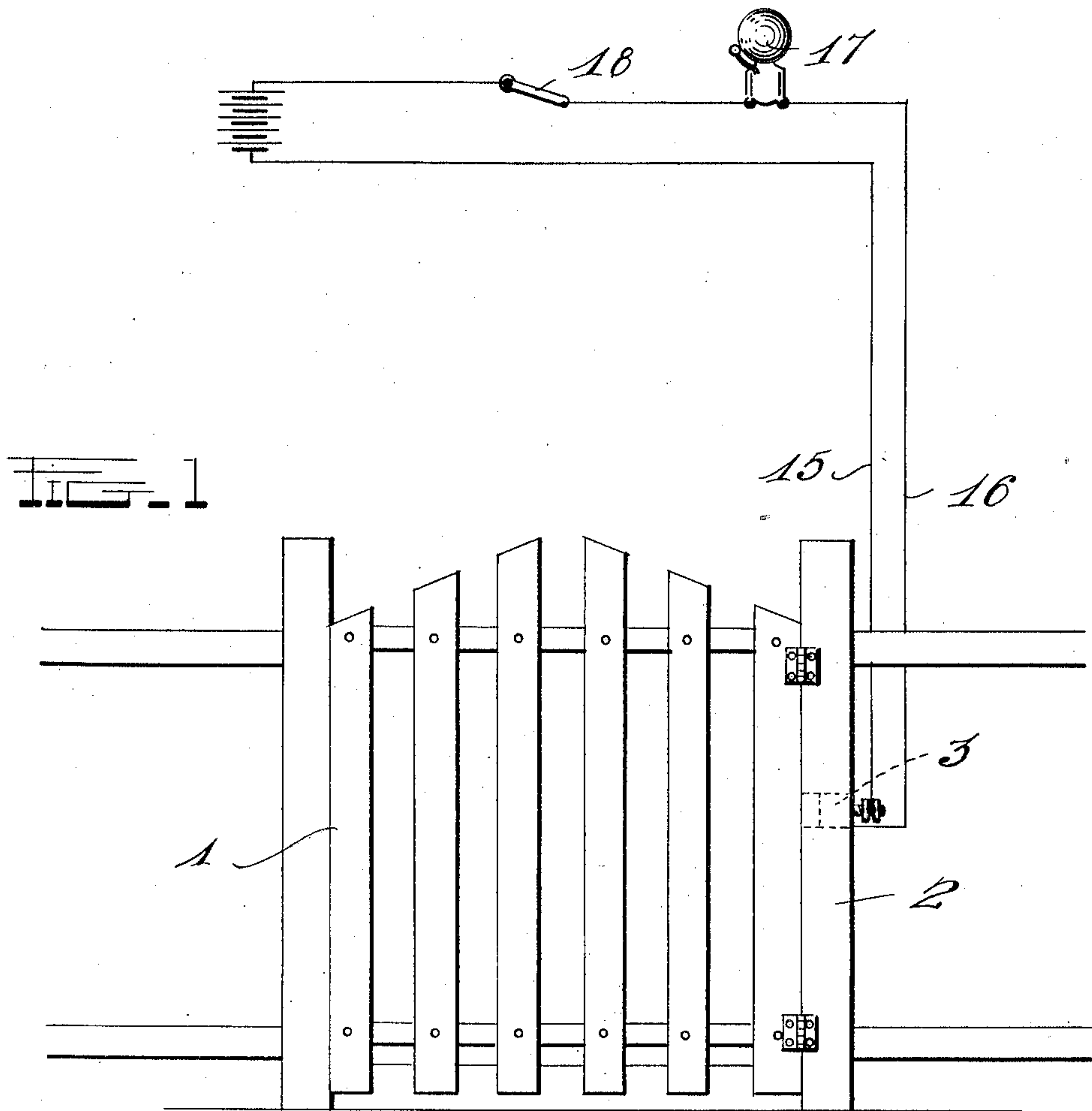


C. E. BLACKBURN.
BURGLAR ALARM.
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997,036.

Patented July 4, 1911.



Witnesses
C. P. Hardy
O. B. Hopkins

Inventor
C. E. Blackburn
by A. B. Wilson & Co.
Attorneys

UNITED STATES PATENT OFFICE.

CLOUMBUS E. BLACKBURN, OF HODGE, LOUISIANA.

BURGLAR-ALARM.

997,036.

Specification of Letters Patent.

Patented July 4, 1911.

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To all whom it may concern:

Be it known that I, CLOUMBUS E. BLACKBURN, a citizen of the United States, residing at Hodge, in the parish of Jackson and State of Louisiana, have invented certain new and useful Improvements in Burglar-Alarms; and I do 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 appertains to make and use the same.

This invention relates to improvements in circuit closers for electric burglar alarms for gates, doors, windows or the like.

One object of the invention is to provide a burglar alarm of this character having an improved construction and arrangement of circuit closer adapted to be actuated by the opening of the gate or other object to which it is applied thereby closing the circuit and sounding the alarm.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings: Figure 1 is a diagrammatic view of an electric burglar alarm constructed in accordance with my invention and applied to a gate; Fig. 2 is an enlarged vertical sectional view through a portion of a gate and its hinge post showing my improved circuit closer applied thereto and in an open or inoperative position; Fig. 3 is a similar view through the latch post and circuit closer showing the latter in a closed or operative position.

Referring more particularly to the drawing, 1 denotes a gate, 2 denotes the hinge post thereof, 3 denotes my improved circuit closer which consists of an inner member 4 formed of any suitable non-conducting or insulating material and having a reduced outer end with which is engaged a metal cap 5 which forms one terminal of an electric circuit. In the outer end of the member 4 is formed a hole 6 which communicates with a socket 7 formed in the inner end of said member. Slidably mounted in the hole 6 and projecting through the member 4 and through a passage 8 formed in the end of the cap 5 is a bolt 9 having on its inner end a head 10. The threaded outer end of the bolt projects a suitable distance beyond the outer end of the cap 5 and forms

the other terminal of the electric circuit, the conducting wire of which is secured to the threaded end of the bolt between clamping nuts 11 arranged thereon as shown. On the bolt 9 in the socket 7 is arranged a loose washer 12 between which and a nut 12' arranged on the inner end of the bolt is arranged a coiled spring 13 the pressure of which is exerted to close the circuit as will be hereinafter more fully described. The washer 12 is engaged with a washer 14 arranged in the outer end of the cap 5, said washer 14 being formed of suitable insulating material whereby the bolt 9 and washer 12 are insulated from the cap.

As hereinbefore stated one of the wires 15 of the electric circuit is connected to the outer end of the bolt 9 by the nuts 12 and the wire 16 of the circuit is secured to the inner edge of the cap 5 in any suitable manner. The wires 15 and 16 are connected with a suitably located battery and have arranged therein an alarm bell 17 which also may be located at any suitable point and a switch 18 whereby the circuit may be completed for operation by the circuit closer or may be broken to prevent the operation thereof by said closer.

The circuit closer 3 is suitably secured in the hinge post of the gate or in the frame of the door or window to which the same is applied so that the head end of the bolt 9 will be in position to be engaged and projected to an inoperative position when the gate or other object to which the alarm is applied is in closed position. When thus arranged as soon as the gate or other object is opened the spring 13 in the socket 7 will project the bolt thereby bringing the nuts 11 on the outer end thereof into engagement with the outer end of the cap thus forming an electric connection between the bolt and the cap and thereby completing the circuit when the switch 18 is closed and thus sounding an alarm.

From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention as defined in the appended claims.

Having thus described my invention, what I claim is:

1. A circuit closer of the character described comprising a cylindrical block of insulating material having a reduced end, a central socket and a longitudinal passage concentric with the socket and leading through the end of the block, a metallic cap on the reduced end of the block forming one terminal of an electric circuit and having an opening in its end in alinement with the socket and passage of the block, a bolt slidably mounted in the openings of the block and cap forming the other terminal of the electric circuit and a spring engaging the bolt to keep it normally projected from the block.

2. A circuit closer of the character described comprising a cylindrical block of insulating material having a reduced end, a central socket and a longitudinal passage concentric with the socket and leading through the end of the block, a metallic cap on the reduced end of the block forming one

terminal of an electric circuit and having an opening in its end in alinement with the socket and passage of the block, a bolt slidably mounted in the openings of the block and cap forming the other terminal of the electric circuit, a nut on the bolt in the socket of the block, a washer of insulating material on the bolt and separating the end of the block from the end of the cap, a pair of contact and binding nuts on the bolt outside the cap, and a spring coiled about the bolt in the socket of the block between the inner nut and the insulating washer serving to normally project one end of the bolt out of the block and normally hold the contact nut in contact with the cap and the circuit closed.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

CLOUMBUS E. BLACKBURN.

Witnesses:

H. R. JOHNSON,

A. J. ROSS.

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