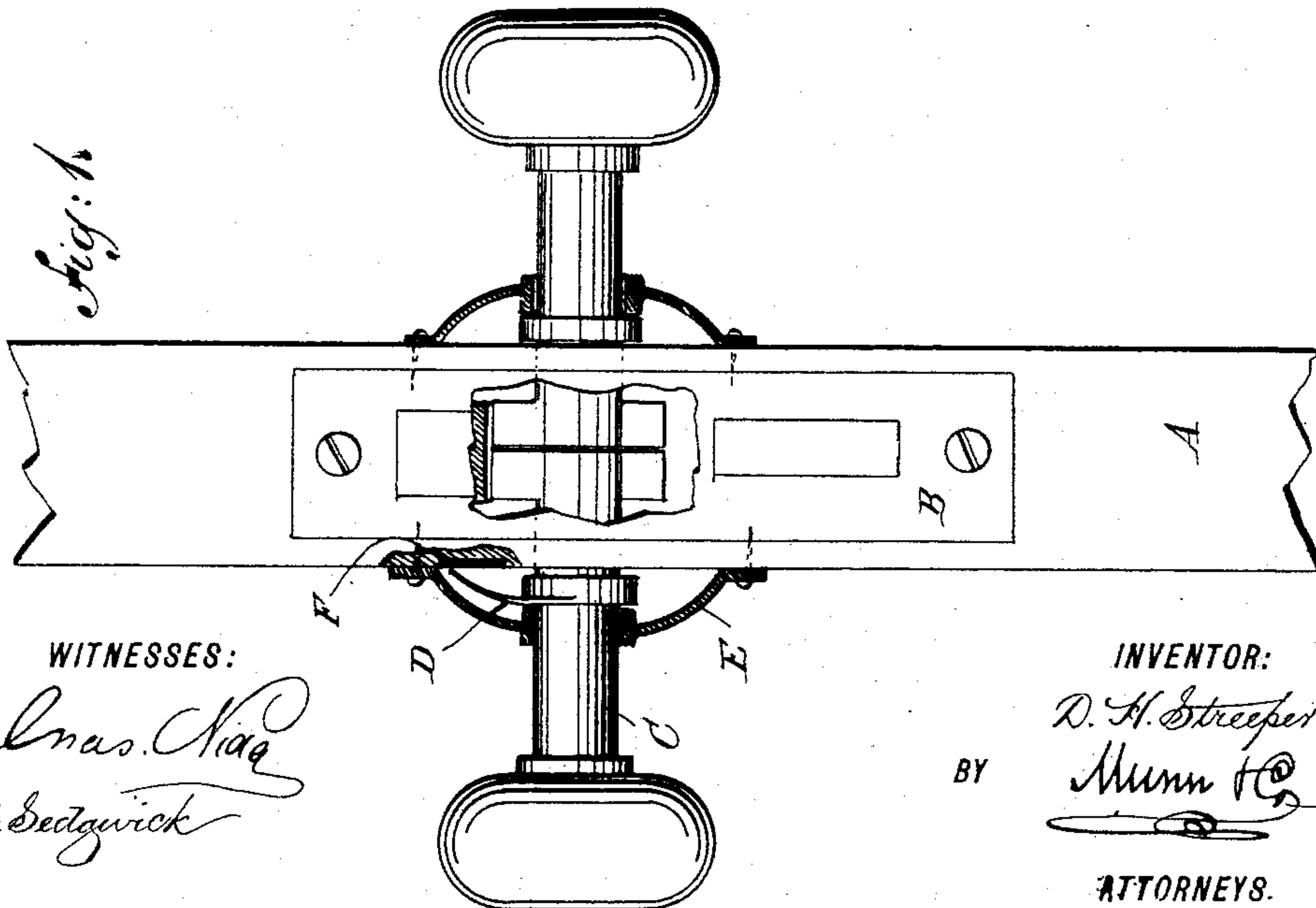
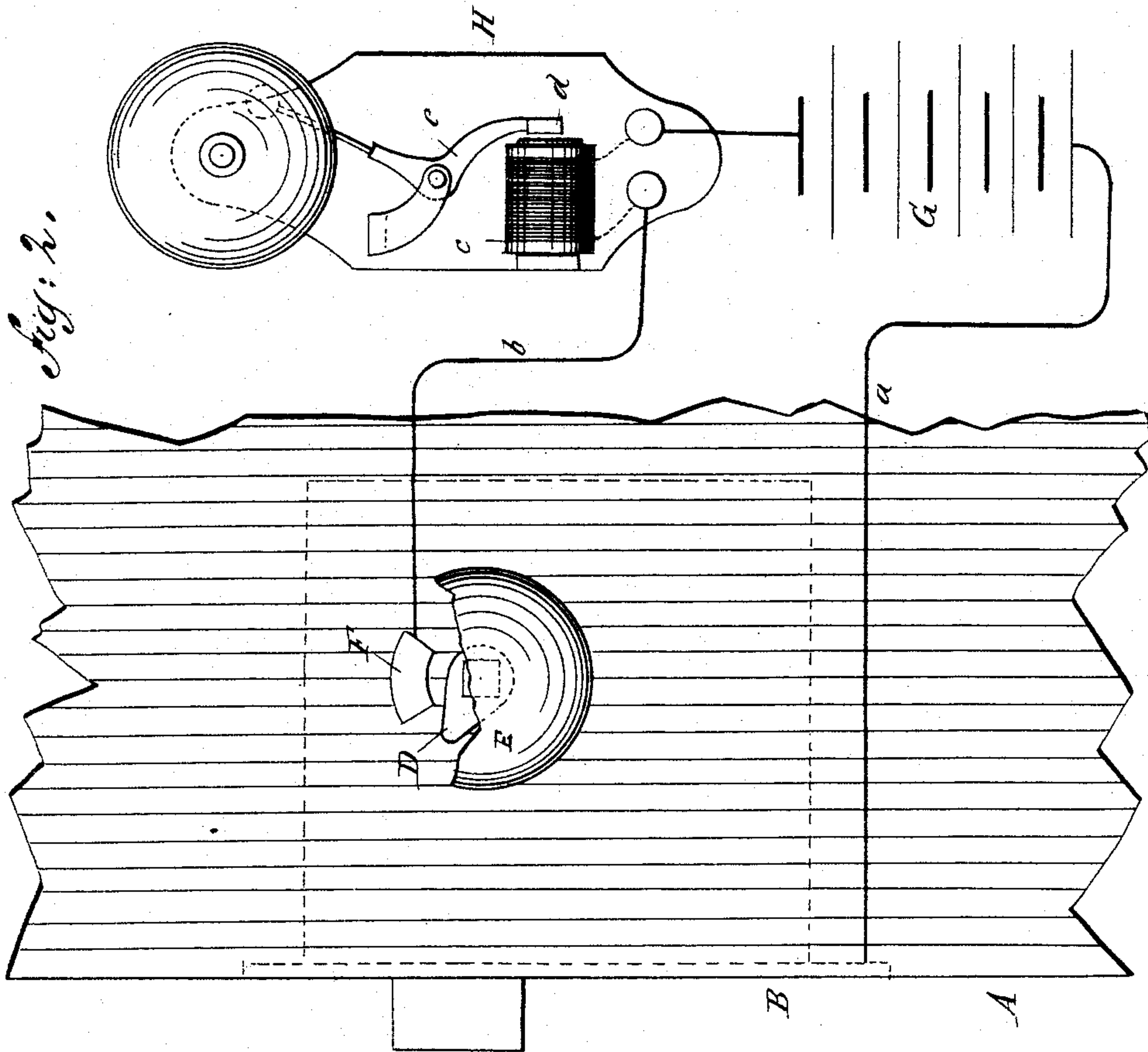


(No Model.)

D. H. STREEPER.
ELECTRICAL DOOR ALARM.

No. 412,563.

Patented Oct. 8, 1889.



WITNESSES:

Chas. H. Hagg
C. Sedgwick

INVENTOR:

D. H. Streeper
Munn & Co.

BY

ATTORNEYS.

UNITED STATES PATENT OFFICE.

DANIEL H. STREEPER, OF NORRISTOWN, PENNSYLVANIA.

ELECTRICAL DOOR-ALARM.

SPECIFICATION forming part of Letters Patent No. 412,563, dated October 8, 1889.

Application filed July 19, 1889. Serial No. 317,983. (No model.)

To all whom it may concern:

Be it known that I, DANIEL H. STREEPER, of Norristown, in the county of Montgomery and State of Pennsylvania, have invented a new and Improved Electrical Door-Alarm, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof, in which—

Figure 1 is a front elevation, partly in section, of a door-knob and lock to which my improvement has been applied; and Fig. 2 is a side elevation, partly in section.

Similar letters of reference indicate corresponding parts in both views.

The object of my invention is to provide a simple and effective alarm which will give notice within when the door-knob is turned from the outside of the door.

My invention consists in the combination, with the knob-socket, of a switch-arm connected with the socket so as to turn with it, and a contact-plate inserted in the door in the path of the switch-arm, the said knob-socket and contact-plate being in the circuit of a battery including an alarm-bell, all as will be hereinafter more fully described.

To the door A is fitted a lock B, of ordinary construction, the said lock B being provided with two spindles axially in line with each other, and adapted to operate independently upon the mechanism of the lock in the usual way. To the knob-socket C, placed upon the outer spindle, is attached a switch-arm D, which is covered by the collar E. In the face of the door is inserted a contact-plate F.

The lock B is connected with one pole of the battery G through the wire *a* and the hinges of the door, and the contact-plate F is connected through the wire *b* and the door-hinges with the electric bell H, and the said bell is in turn connected with the remaining pole of the battery G. The electric bell H is provided with an electro-magnet *c*, which is capable of acting upon the armature *d*, connected with the bell-hammer lever *e*.

So long as the door is opened by turning the inside knob the electric circuit remains unchanged; but when the outer knob is turned the switch-arm D is brought into contact with the plate F and the circuit is closed, giving the alarm.

The bell represented as a part of my device is shown as a single-stroke bell; but it is obvious that I may employ a vibrating bell in lieu thereof whenever it may be necessary.

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

The combination, with a door, its lock having operating-knob, and an escutcheon E, of the electric alarm and battery, the contact-plate F, secured to the door under the escutcheon and in the circuit of the battery, and the switch-arm D, secured to the knob-shank and also concealed by the escutcheon, substantially as set forth.

DANIEL H. STREEPER.

Witnesses:

JOHN J. CORSON,
HAROLD CORSON.