

(No Model.)

F. POLITZ.
BURGLAR ALARM.

No. 312,508.

Patented Feb. 17, 1885.

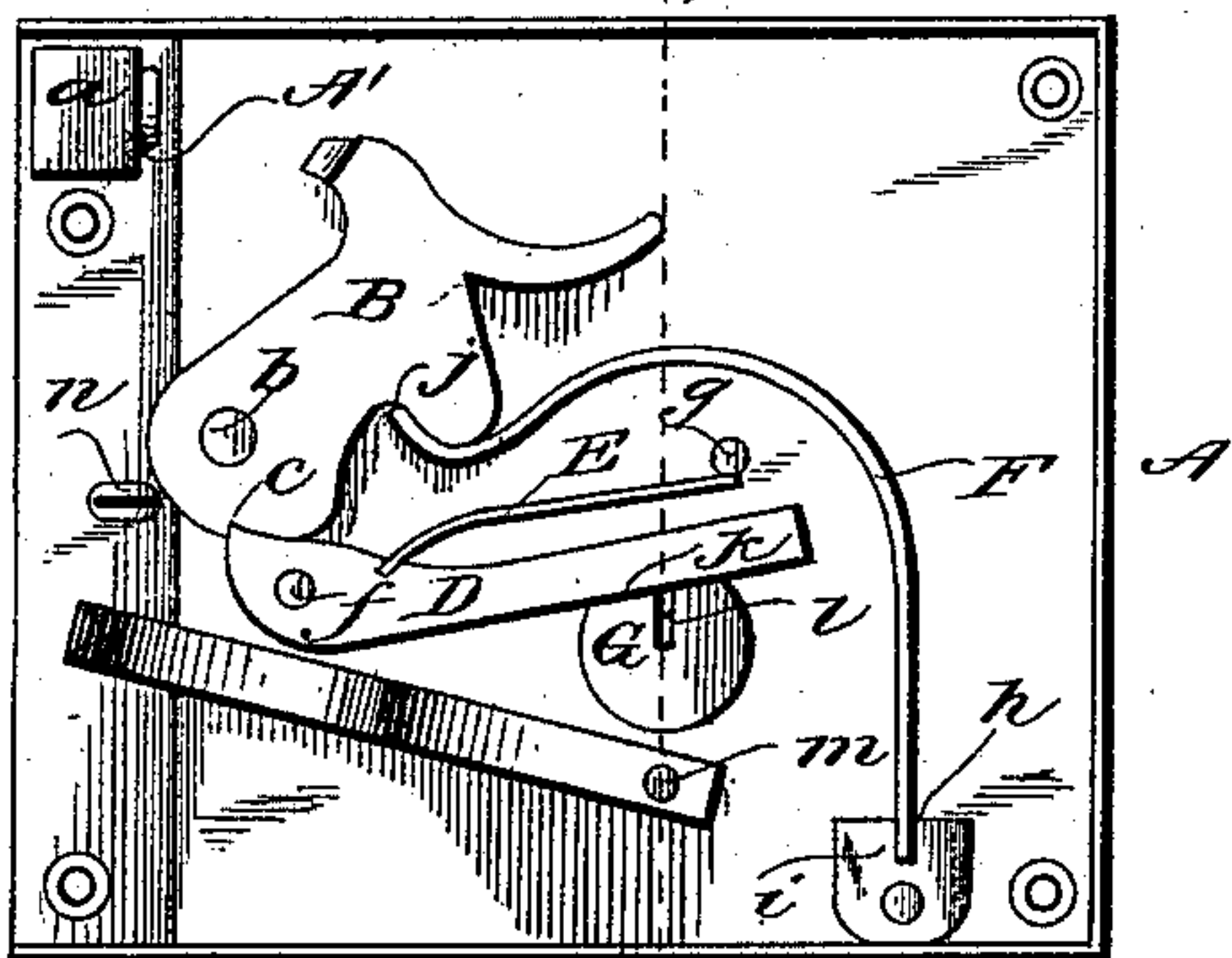


Fig. J.

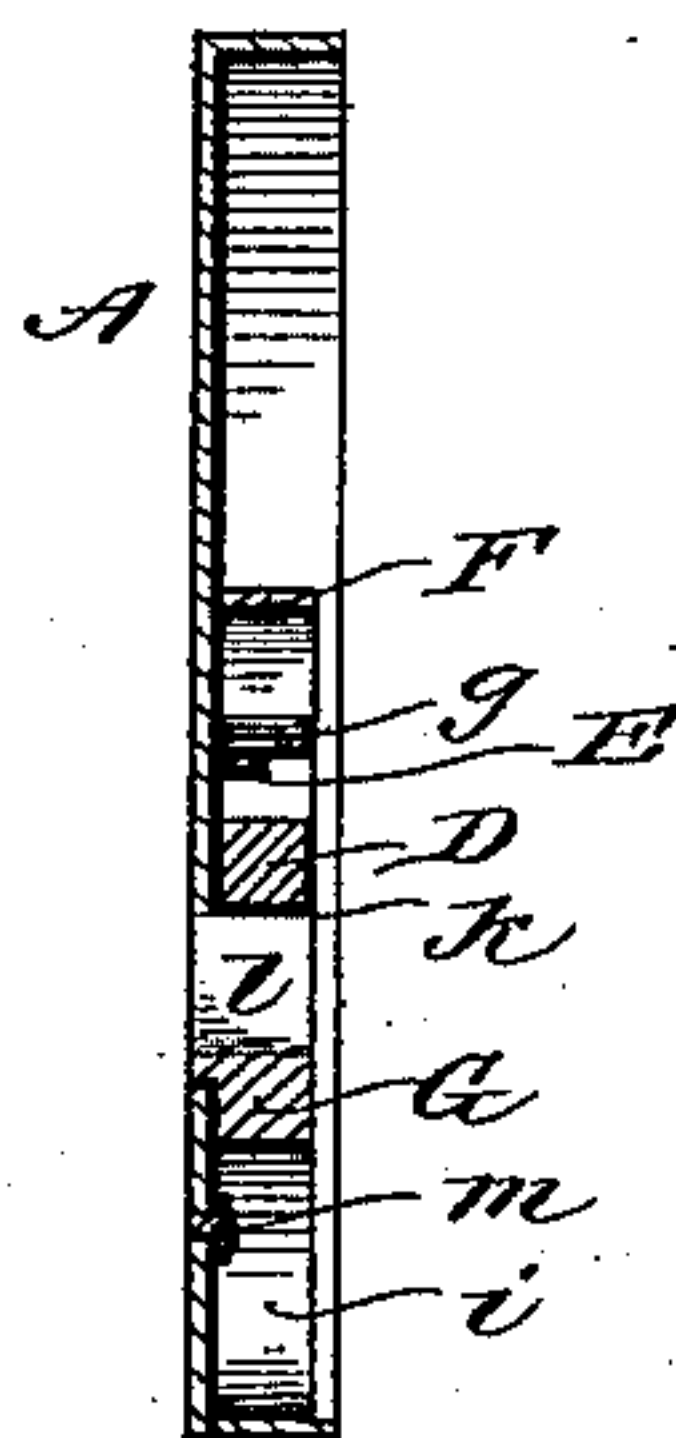


Fig. 2.

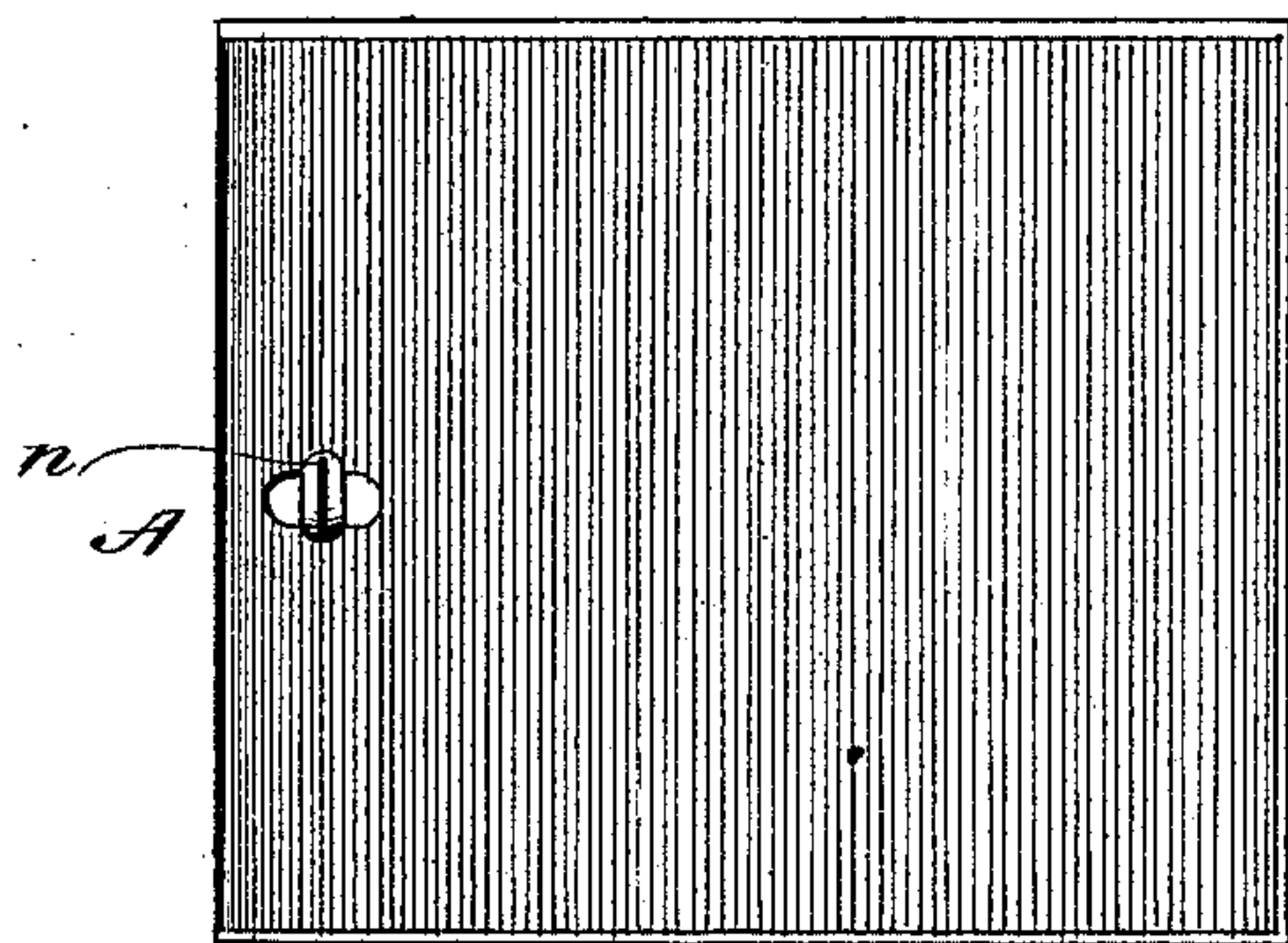


Fig. 3.

WITNESSES

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FREDERICK POLITZ, OF BRIDGETON, NEW JERSEY.

BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 312,508, dated February 17, 1885.

Application filed October 15, 1884. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK POLITZ, a citizen of the United States, residing at Bridgeton, in the county of Cumberland and State of New Jersey, have invented a new and useful Improvement in Burglar-Alarms, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to an alarm adapted to be applied to money-drawers, doors, &c.; and it has for its object to provide a device of this character which shall be simple in its construction and effective in its operation, and one that will be strong and durable.

With these ends in view the invention consists in the combination, with a suitable casing, of a cartridge or cap holding chamber and mechanism operated by the key for causing the explosion of a cartridge or cap.

The invention further consists in the improved construction and combinations of parts hereinafter fully described, and pointed out in the claims.

In the drawings, Figure 1 is a side elevation of an alarm constructed in accordance with my invention, the cap or cover of the casing containing the mechanism being removed. Fig. 2 is a section on the line *xx* of Fig. 1, and Fig. 3 is a side elevation showing the cover or top adjusted and held in place upon the casing.

In the accompanying drawings, in which like letters of reference indicate corresponding parts in all the figures, A represents a suitable casing having in one of the upper corners thereof a chamber for containing a cap or cartridge, said chamber being formed in a block, *a*, secured to or formed integral with said casing. Upon the inner side of the casing is pivoted upon an inwardly-projection pin, *b*, a cock or hammer, B, which is so arranged that when it is lowered its point will strike the cartridge or cap contained in the chamber A'. This hammer or cock B is of any ordinary or well-known construction, and is formed at its lower end with a notch, *c*, for the reception of the end of a pivoted trip, D. Said trip is formed with a sharp point at its forward end, and is pivoted upon an inwardly-extending pin, *f*.

Adjacent to the rear or free end of the pivoted trip D, just above the same, is provided

an inwardly-extending pin, *g*. E represents a flat spring, the forward end of which is fitted in a notch upon the upper side of the pivoted trip D at one end, its other end bearing against the under side of the pin *g*. The object of this spring is to hold the end of the pivoted trip in engagement with the notch in the lower end of the cock or hammer B, to hold the same in a raised position, as shown in Fig. 1.

F represents the mainspring, one end of which is seated in a slot, *h*, of a block, *i*, at one of the lower corners of the casing. The other end of this mainspring bears in a seat, *j*, on the hammer. It will thus be seen that when the trip D is raised from engagement with the notch in the hammer or cock B the same will be lowered with considerable force, and thus explode the cap or cartridge in the chamber before mentioned.

G represents a tumbler having a flat upper face, *k*, upon which rests or bears the under side of the rear end of the trip. This tumbler is reduced, as shown, and said reduced end has bearing in a hole or opening formed in the rear side of the casing, thus holding said tumbler in place, and allowing it to be turned. The tumbler is formed with a vertical slit or slot, *l*, for the reception of the end of a key.

Upon one of the side walls of the casing, on the inner side thereof, is provided a flat spring, which is held in place at one end by a screw, *m*. By the use of this spring it will be seen that when the cap or cover to the casing is adjusted in place all rattling of the parts will be prevented. The cap or cover of the casing is formed with a slightly elongated slot, which is adapted to receive the head of a thumb-screw, *n*, extending from the inner side of the casing. It will be seen that when the head of said screw is inserted through the slot, and then turned transversely across the same, the top or cover will be held in place upon the casing.

In using the above-described alarm the key is left in the tumbler, and upon it being turned in either direction the tumbler raises the rear end of the trip, thus releasing it from engagement with the hammer, which is forced downwardly, to explode the cap, by means of the mainspring.

The above-described alarm is simple in its

construction, may be manufactured and supplied at a comparatively slight cost, is effective in its operation, strong and durable, and may be applied to drawers, doors, trunks, and
5 to other objects employing a lock, and where an alarm is needed.

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

10 In an alarm, the combination, with a suitable casing, of a cap or cartridge chamber, a cock or hammer, a mainspring, a trip, a spring

for holding said trip in position, and a tumbler having a flat upper face, and reduced at its end, said tumbler also having a slot for the
15 reception of a key, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

FREDERICK POLITZ.

Witnesses:

SAMUEL STEINMETZ,

ANTON DIETZ.