

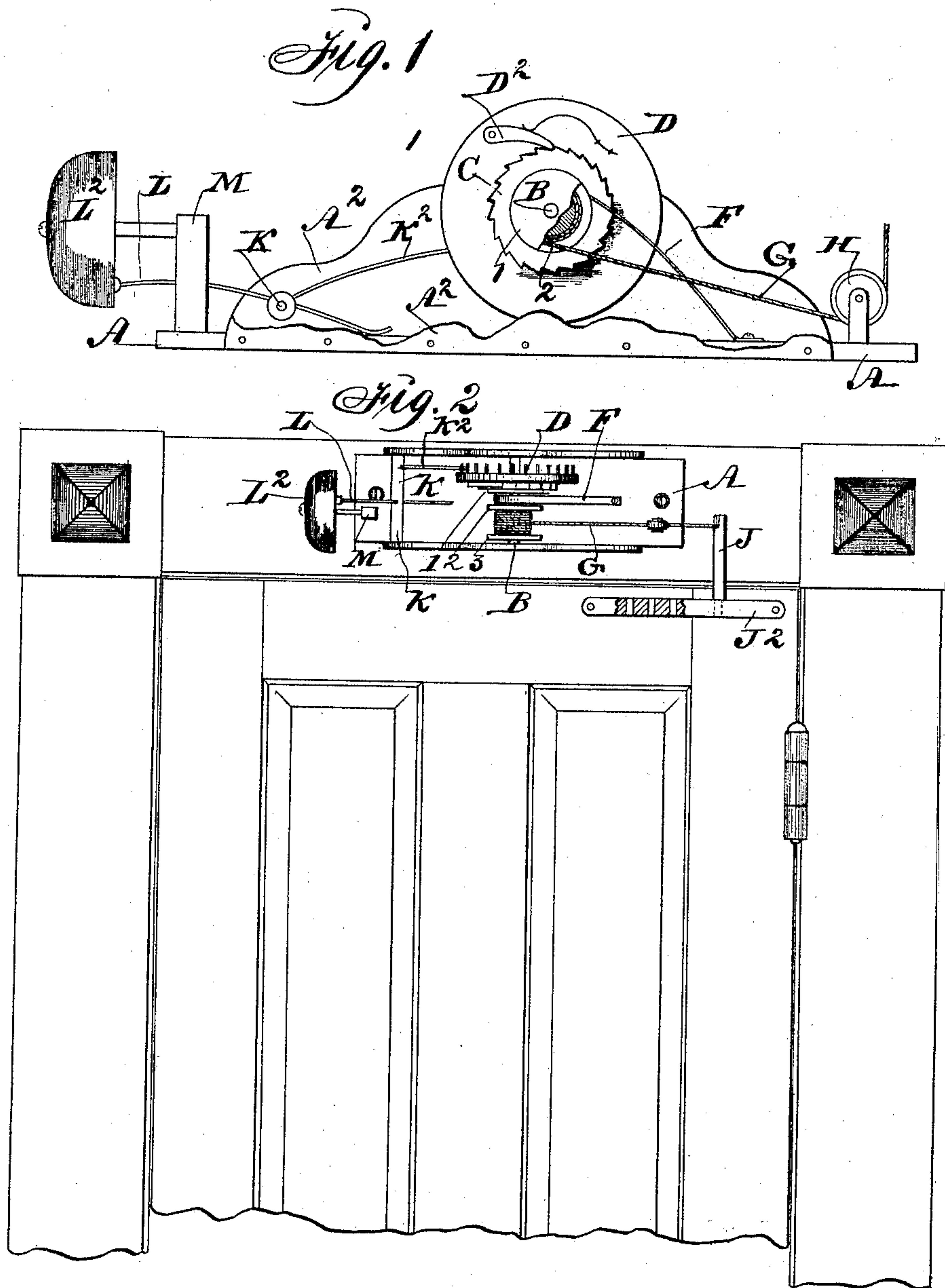
(No Model.)

G. F. SNIDER.

BURGLAR ALARM AND DOOR CLOSING DEVICE.

No. 475,903.

Patented May 31, 1892.



Witnesses: *M. J. Sankey*  
*R. H. Orwig* } Inventor: *Gabriel F. Snider,*  
*By Thomas G. Orwig, Attorney.*

# UNITED STATES PATENT OFFICE.

GABRIEL FINANDEZ SNIDER, OF ABINGDON, IOWA.

## BURGLAR-ALARM AND DOOR-CLOSING DEVICE.

SPECIFICATION forming part of Letters Patent No. 475,903, dated May 31, 1892.

Application filed May 8, 1891. Serial No. 392,088. (No model.)

*To all whom it may concern:*

Be it known that I, GABRIEL FINANDEZ SNIDER, a citizen of the United States of America, and a resident of Abingdon, in the county of Jefferson and State of Iowa, have invented a new and useful Burglar-Alarm and Door-Closing Device, of which the following is a specification.

My object is to combine automatic bell-ringing mechanism and a device for regulating the force thereof with a hinged door in such a manner that opening the door will actuate the alarm and at the same time store power in a spring for automatically closing the door, and I accomplish the results contemplated as hereinafter set forth.

In the accompanying drawings, Figure 1 is a bottom view with part of the frame and part of a flange removed, showing the operative mechanism; and Fig. 2 is a front view of the complete device applied to a door-frame and connected to a door, as required for practical use.

A is the base.

A<sup>2</sup> are the parallel sides of the frame, having at their tops and centers perforations adapted to admit a rotating axle and at one of their ends perforations adapted to admit a rock-shaft.

B is an axle having fixed collars or flanges 1, 2, and 3, which form spools upon which a cord and spring are wound.

C is a ratchet-wheel firmly fixed to the axle B.

D is a pin-wheel placed loosely on the axle B, with pins projecting at regular intervals from its top face and a pawl D<sup>2</sup> on its lower side engaging with the ratchet-wheel C in such manner as to operate the pin-wheel D when the ratchet-wheel C is moved forward.

F is a spring attached to and coiled around the axle B on the spool formed by the flanges 1 and 2 and fastened at one end to the base A of the frame.

G is a cord attached to and wound around the axle B on the spool formed by the flanges

2 and 3. It passes over the direction-pulley H and is attached to the door by means of the post J. The cord G and the spring F are wound around the axle in reverse ways, so that the cord, being unwound by opening the door, winds up the spring, which in turn winds up the cord when the tension is released, and thereby automatically closes the door.

J<sup>2</sup> is a wooden strip fastened to the top of the door, having vertical perforations at regular intervals, into which the post J can be placed, as required, to regulate the tension of the spring F and cord G.

K is a rock-shaft supported by the parallel sides A<sup>2</sup> of the frame and is operated by the rod K<sup>2</sup>, which strikes against the pins in the pin-wheel D when the pin-wheel is rotated.

L is a spring-actuated bell-striker, which passes through the rock-shaft K, so that its lower end engages with the base of the frame, and on its other end is a knob, which strikes against a bell when the rock-shaft is operated.

L<sup>2</sup> is a bell of common form attached to the supporting-post M.

I claim as my invention—

An automatic alarm consisting of an arbor mounted on a base adapted to be fixed to a door-frame, a coiled spring and clock-work mechanism connected with said arbor and adapted to actuate a bell-striker, and a bell and striker mounted on the same base and said base fixed to a door-frame above the top of a door hinged to the door-frame, a wooden strip or bar fixed to the top portion of a door hinged to the door-frame and said bar provided with perforations to admit a pin, and a movable wooden pin connected with said arbor by means of a cord, all arranged and combined with a door-frame and door to operate in the manner set forth, for the purposes stated.

GABRIEL FINANDEZ SNIDER.

Witnesses:

GEO. W. CALDWELL,  
S. D. KIRK.