(No Model.)

G. E. THAXTER.

ELECTRICAL CIRCUIT CLOSER.

No. 362,192. Patented May 3, 1887.

Fig. 1.

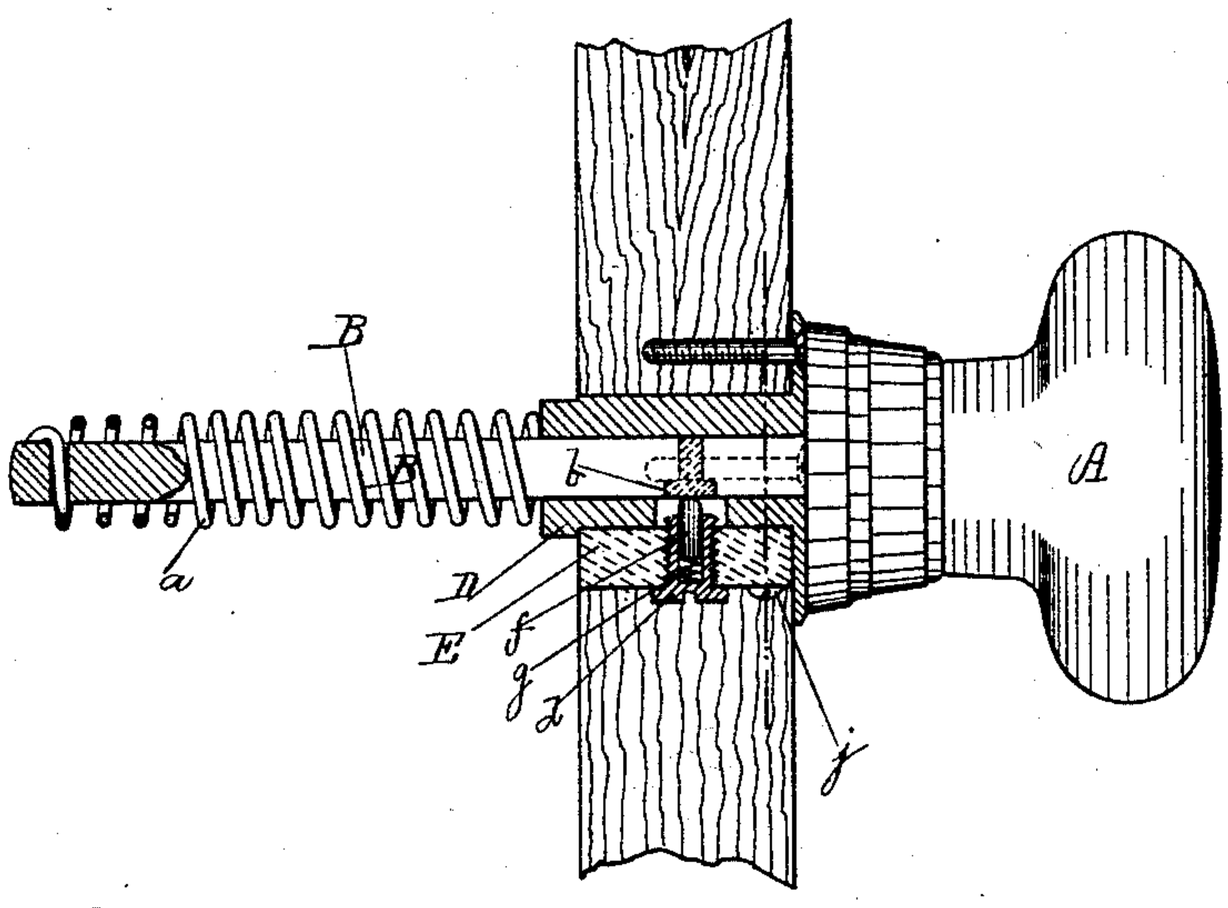
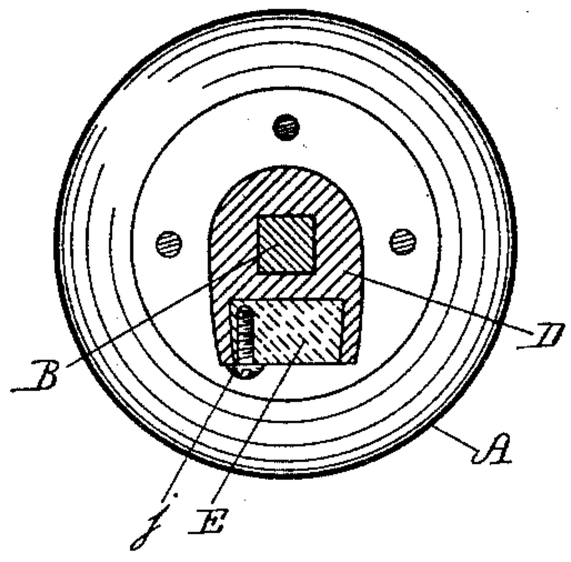


Fig. 2.



Witnesses.

M. A. Thompson
Laurits N. Möller.

Inventor.

George E. Thaxter,
by Wm. A. Macleod.
his atty.

UNITED STATES PATENT OFFICE

GEORGE E. THAXTER, OF BOSTON, MASSACHUSETTS.

ELECTRICAL-CIRCUIT CLOSER.

SPECIFICATION forming part of Letters Patent No. 362,192, dated May 3, 1887.

Application filed August 2, 1886. Serial No. 209,764. (No model.)

To all whom it may concern:

Be it known that I, GEORGE E. THAXTER, of Boston, county of Suffolk, State of Massachusetts, have invented certain new and useful Improvements in Pulls for Electrical Bells, of which the following is a specification, taken in connection with the drawings accompanying and forming a part hereof, in which—

Figure 1 is a vertical section showing my improved pull set in the outer casing of a door-frame. Fig. 2 is a section on dotted line of Fig. 1.

The object of my invention is the construction of a simple and effective pull for electrical bells; and it consists, essentially, in a body or frame which is secured in the casing and which forms the stationary member or part of the device, and which is provided with a connecting-screw having a spring-bolt, which, when the pull is in its normal condition, bears against an insulating-block set in the movable part or member of the device—viz., the shank of the pull—and which, as this part is withdrawn, bears against the metallic part thereof and closes the circuit.

My invention will be readily understood by a description of the device as it is shown in the accompanying drawings.

A is the knob, to which the shank B is secured, and which slides in the body or socket D, which is secured by screws or otherwise to the casing. A spiral spring, *a*, secured to one end of the shank and at the other bearing against the inner end of the socket B, acts to keep the pull in or in its closed position when it is not being used. The shank B is provided with a block or pin, *b*, of rubber or insulating material, which is securely set therein, and which is flush with the surface of the shank. In the socket D is placed another block, E, of rubber, or other insulating material, which is suitably secured with screws or otherwise. Directly opposite the insulating-pin *b*, which is set in the shank B, a hole is provided through the insulating-block E and socket D, which receives a screw-threaded binding-post, *d*, said post *d* being in contact only with the insulating-block into which it is screwed. This binding-post *d* has a hole in its inner end, within which is placed a small bolt, *f*, and beneath the bolt a spiral spring, *g*, which acts to keep the bolt pressed outwardly.

When the pull is in, in its normal position, the end of bolt *f* bears against the insulating-pin *b* in the shank B, as shown Fig. 1, and the circuit is open. A screw, *j*, is set in the insulating-block E, so as to touch and make connection with the metallic body or socket D. To this screw *j* one of the battery-wires is connected, while the other is connected with the binding-screw *d*. When, now, the knob is in, in its normal position, the spring-bolt *f* bears on the insulating-piece *b* and the circuit is open. As soon, however, as the knob is withdrawn, the insulating-piece *b* is moved past the bolt *f*, which then bears on the metallic shank, making the circuit through the screw *j* and causing the bell to ring.

It will be obvious that by slight mechanical changes the spring contact-bolt *f* might be placed in the movable part or shank of the pull and the insulating-piece *b* in the stationary socket without changing, essentially, my invention.

What I claim is—

1. An electric bell-pull consisting of a spring-retracted shank or spindle, and a socket piece or bushing adapted to be attached to a casing to support said spindle, and through which the said spindle extends, and in which it is movable, one of the said parts being provided with a spring-acted contact device housed therein and the other with an insulating-stop, against which the said contact device normally impinges, substantially as set forth.

2. The combination, with the spring-retracted shank or spindle B, of the socket piece or bushing D, by which the said shank or spindle is supported, and in which it is movable, said shank or spindle being provided with the insulating-piece *b*, and the said socket-piece having a spring-acted contact-pin insulatingly attached thereto, substantially as set forth.

3. The combination, with the knob-shank B, provided with the insulating-piece *b*, of the socket D and its insulated connecting-screw *d* and spring-bolt *f*, and the connecting-screw *j*, substantially as set forth.

GEORGE E. THAXTER.

Witnesses:
WM. A. MACLEOD,
M. A. THOMPSON.