

(No Model.)

A. F. L. WILLATOWSKY.
ELECTRIC CIRCUIT CONTROLLER.

No. 390,329.

Patented Oct. 2, 1888.

Fig 1

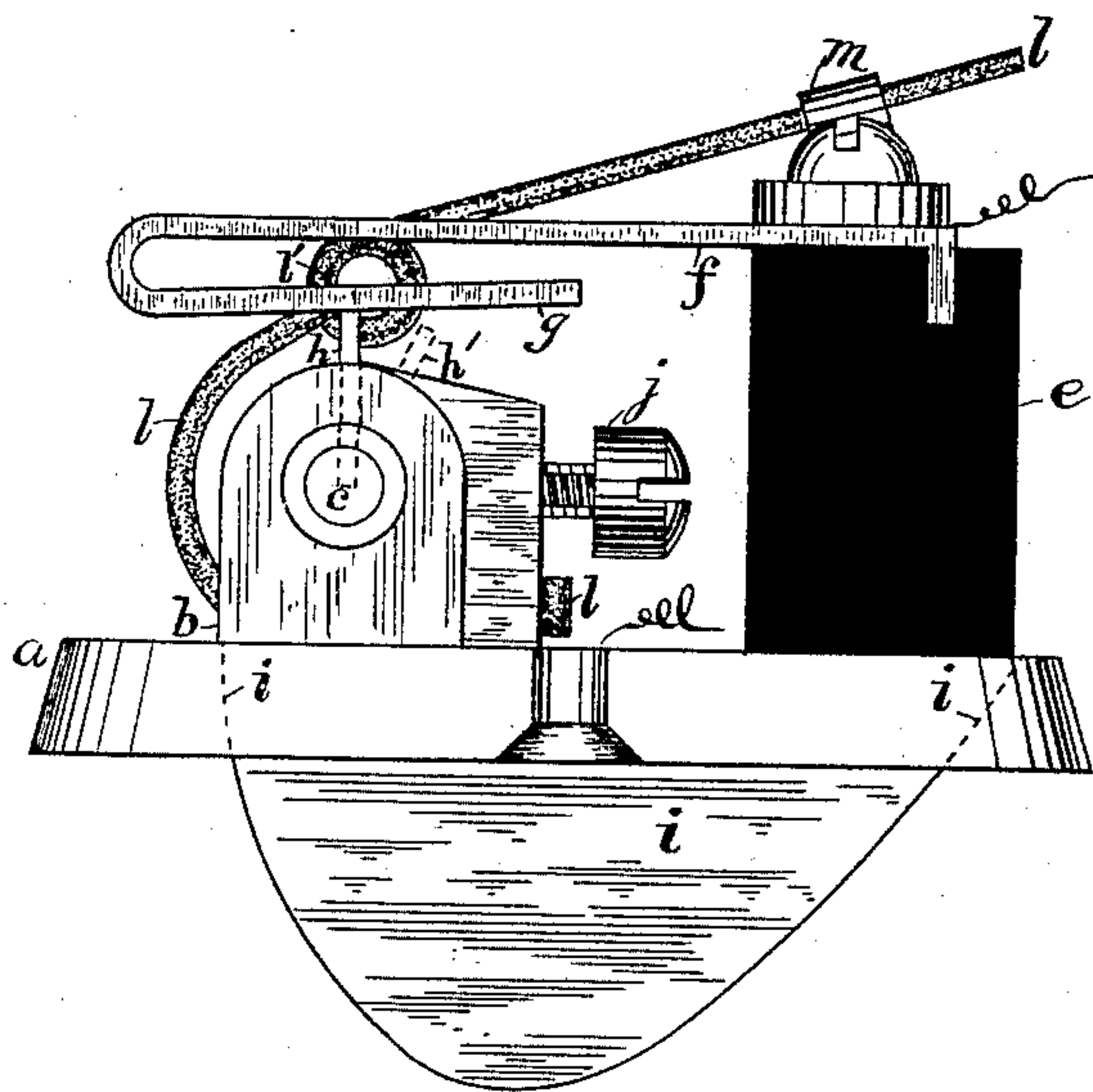
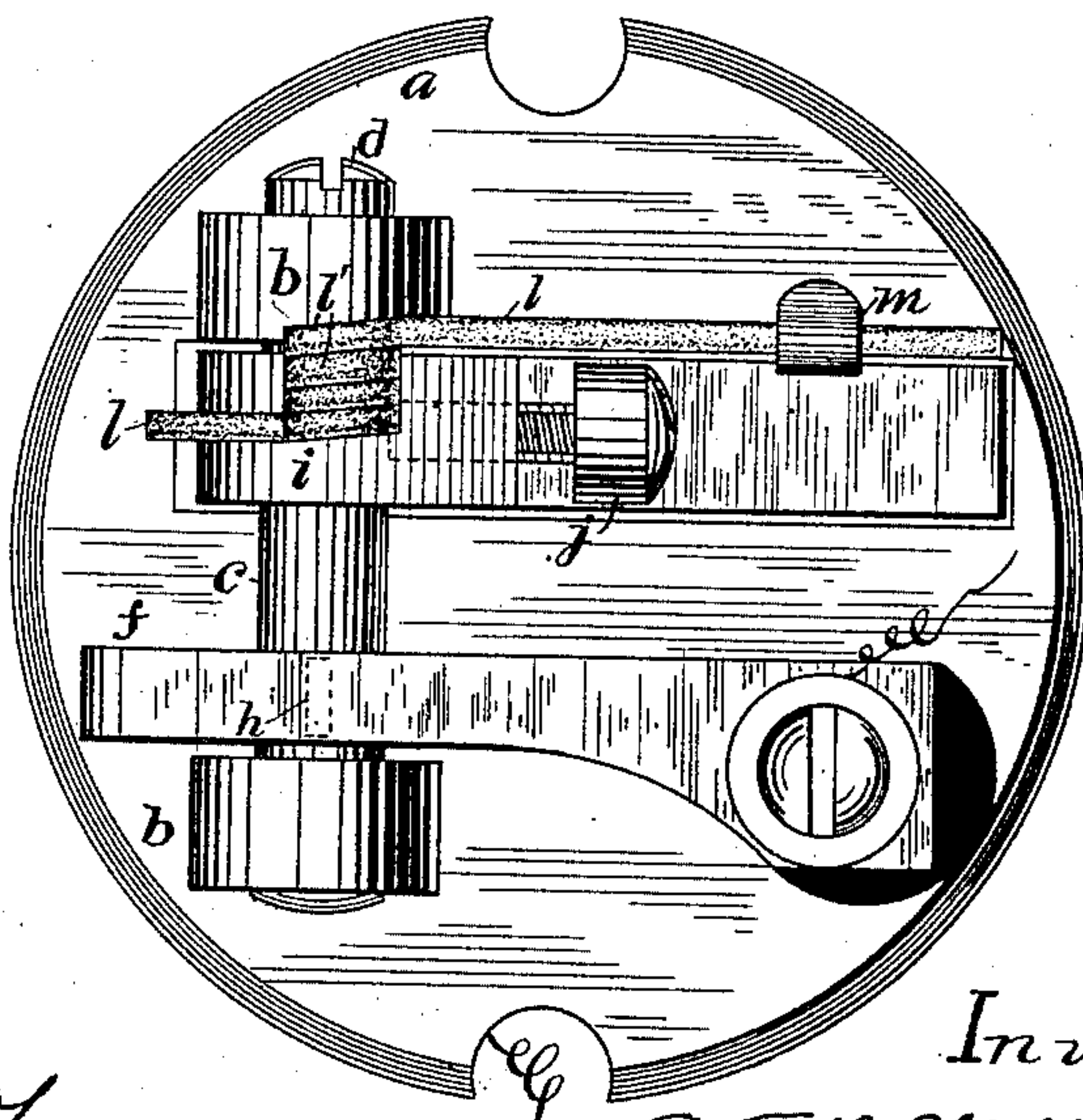


Fig 2



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UNITED STATES PATENT OFFICE.

AUGUST F. L. WILLATOWSKY, OF STAMFORD, CONNECTICUT.

ELECTRIC-CIRCUIT CONTROLLER.

SPECIFICATION forming part of Letters Patent No. 390,329, dated October 2, 1888.

Application filed April 19, 1888. Serial No. 271,152. (No model.)

To all whom it may concern:

Be it known that I, AUGUST F. L. WILLATOWSKY, a citizen of the United States, and a resident of Stamford, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Electric-Circuit Controllers, of which the following is a specification.

My invention relates to a new form of electric connection especially adapted for doors, windows, floors, and other locations in a system of burglar-alarms, and arranged so that it can be readily changed from a circuit-breaker to a circuit-closer.

In the accompanying drawings the device is illustrated on an enlarged scale.

Figure 1 is a view in elevation, and Fig. 2 is a plan view, both views being drawn to approximately the same scale.

The device consists of the combination of a base plate, *a*, two upright posts, *b*, provided with bearings, a rotary shaft or spindle, *c*, having a screw-head, *d*, and supported in said bearings, an insulator, *e*, carried upon said base and provided with a projecting spring, *f*, which has an inwardly-turned spring or arm, *g*, a pin, *h*, secured to the spindle and normally pressing against the said arm *g* when the device is to be employed as a circuit-breaker, a cam, *i*, passing loosely through the base-plate and carried by the said spindle, a set-screw, *j*, located upon the cam and normally screwed tightly against the spindle, so that the spindle will move with the cam, a spring, *l*, having at its middle portion a coil, *l'*, and secured to the cam, an elevated guide, *m*, for one end of the spring, and suitable screw-holes, *n*, in the base-plate, whereby the device may be attached to the door or other desired location.

One of the electric terminals is attached to the spring *l* and the other to any convenient part of the instrument, the same being made of metal.

The *modus operandi* is as follows: When the set-screw *j* is loosened, the pin *h* may be set in any direction by turning the spindle *c*. If it is turned to the position shown, then the set-screw is turned so that the cam is held rigidly by the said set-screw. The device having been

put into the required location, then when the cam is forced so as to rotate to the left the pin no longer presses against the spring *l*, and therefore the circuit becomes broken. *h'* represents the position in which the pin is to be placed when the device is to be employed as a circuit-closer. A similar motion of the cam will cause the pin to impinge against the spring and close the circuit. In either of the two cases the spring *l* forces the cam and pin back into their original positions as soon as the cam is liberated. It may be noticed that the pin in its motion has a scraping or rubbing effect upon the spring *f*, thereby insuring good contact. The device may be easily changed from a circuit-breaker to a circuit-closer, affording a great convenience and economy in its manufacture and use. When employed as a foot-switch, in which case it is located on the floor, it is not clogged by dust and sweepings, for such can drop through the space around the cam without interfering with the points of contact. In such use the device would have an inverted position from that shown in the drawings. Heretofore it has been usual in floor-connections to have a projecting plunger extending above the floor, and the same is often bent by a brisk walker, whereas this cam or lever-cam may be pressed upon either perpendicularly or obliquely, and yet it will operate—*i. e.*, it will pass through the hole in the plate and operate the contacts.

In practice the two pillars or posts *b* are closer together and the insulator is moved nearer to the cam, so that the device occupies space very economically. I reserve the right to make similar changes not shown and not possessed of patentable novelty.

I claim as my invention—

1. A circuit-controller consisting of the combination of a suitable support provided with an insulator which carries a spring-contact, a spindle provided with a set-screw and with a cam for the purpose, as described, of operating to make and break the circuit, a contact-pin secured to said spindle, and a retractile spring attached to the said spindle.

2. A circuit-controller consisting of the combination of a pivoted cam, a set-screw carried by said cam and screwed against the pivot or

spindle of the cam, an electric contact pin se-
cured to said spindle, a second contact termi-
nating in a spring arranged in the path of the
first-named contact, and a spring having one
5 end attached to the cam and the other bearing
frictionally in a guide.

In testimony that I claim the foregoing as

my invention I have signed my name, in pres-
ence of two witnesses, this 14th day of April,
1888.

AUGUST F. L. WILLATOWSKY.

Witnesses:

JOHN B. REED, Jr.,

HERVEY SMITH.