

(No Model.)

A. T. TREGURTHA.

CEILING BLOCK FOR INCANDESCENT ELECTRIC LAMPS.

No. 433,915.

Patented Aug. 5, 1890.

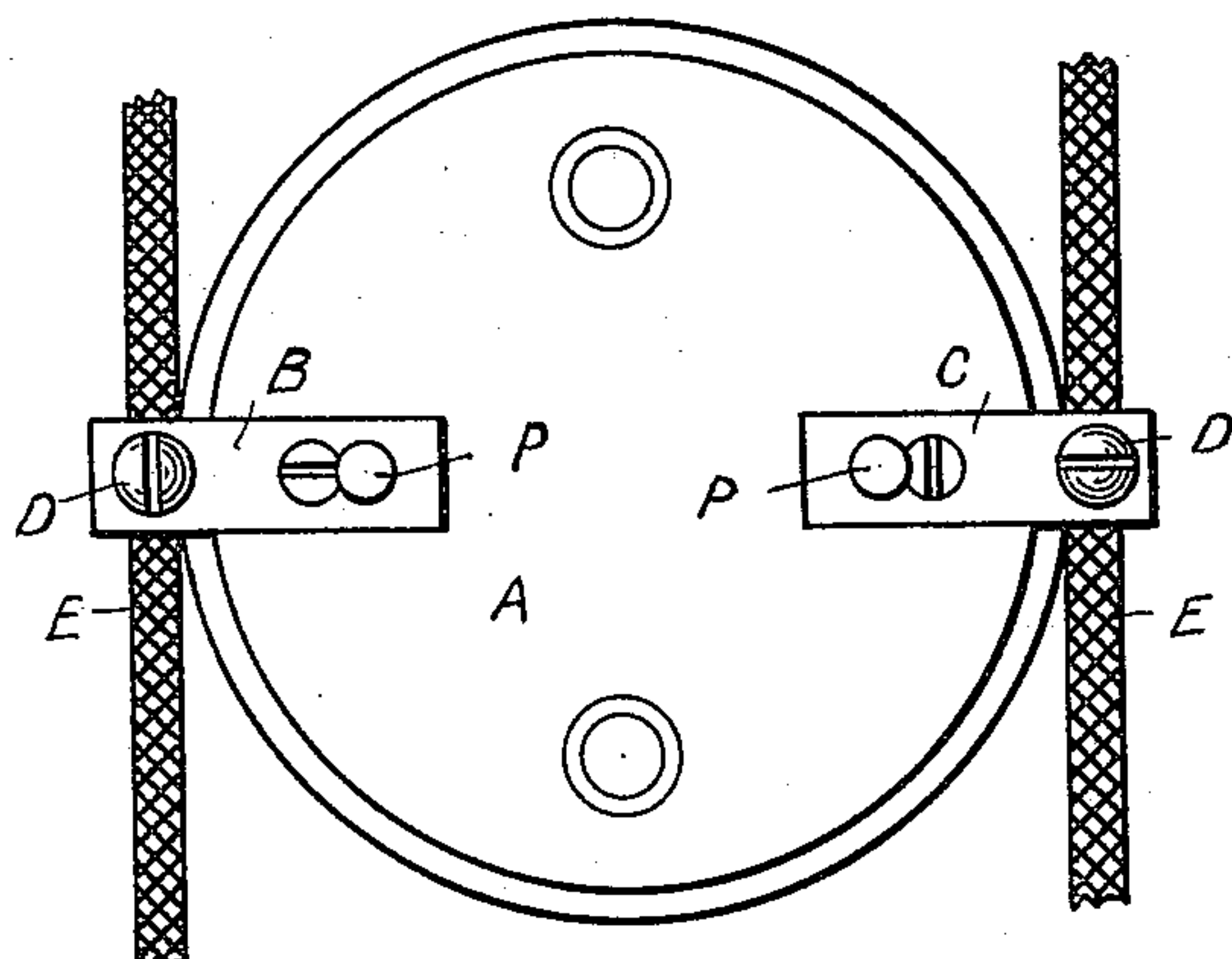


Fig. 1.

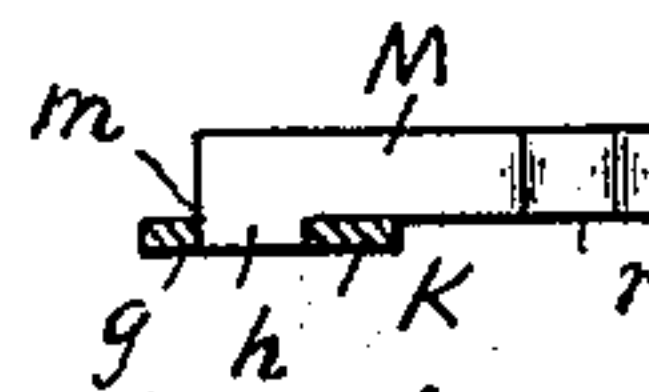
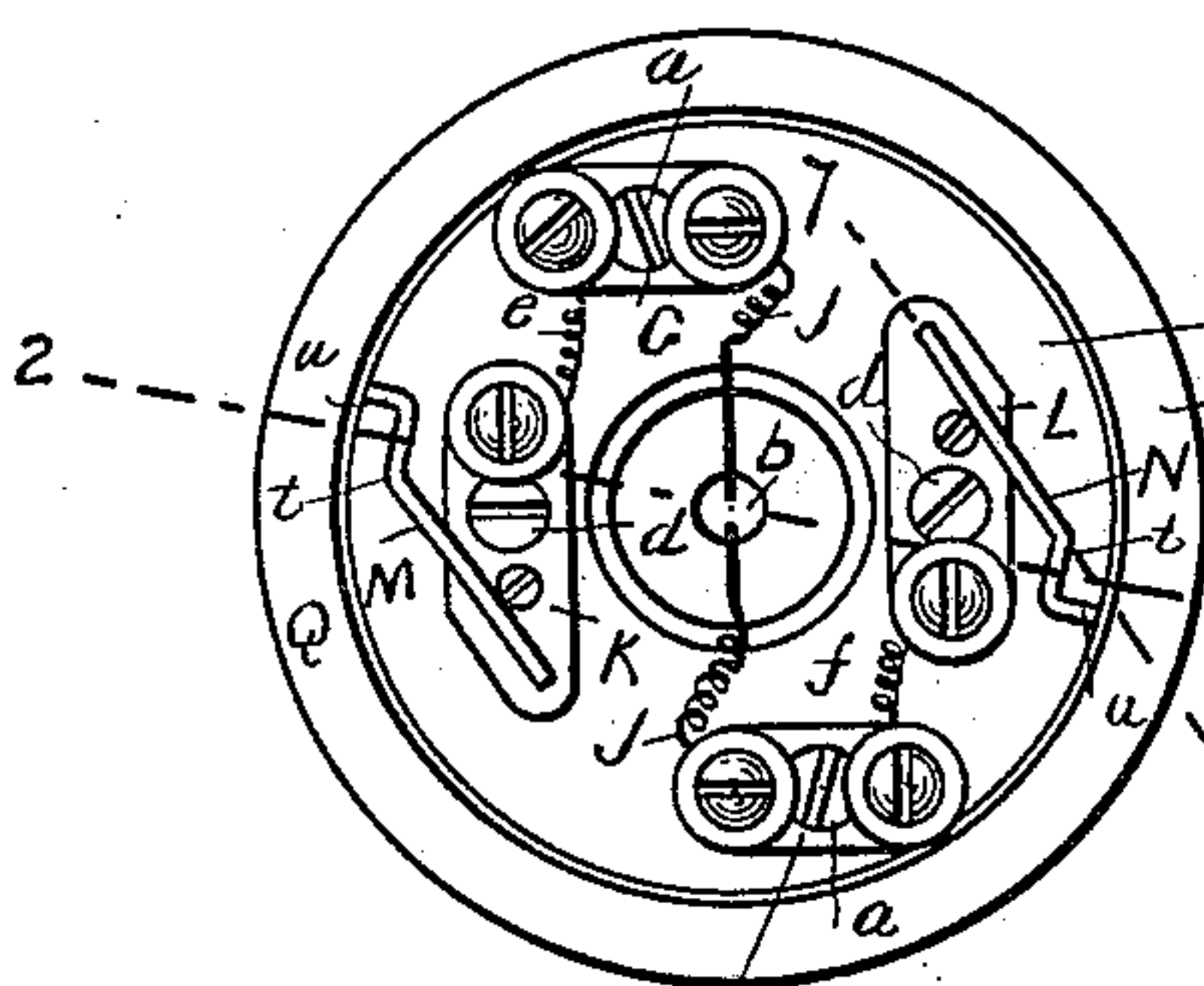


Fig. 7.

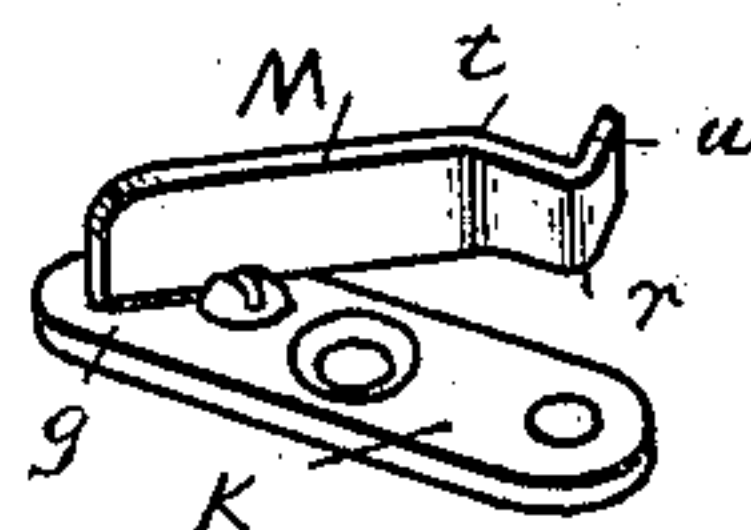


Fig. 3.

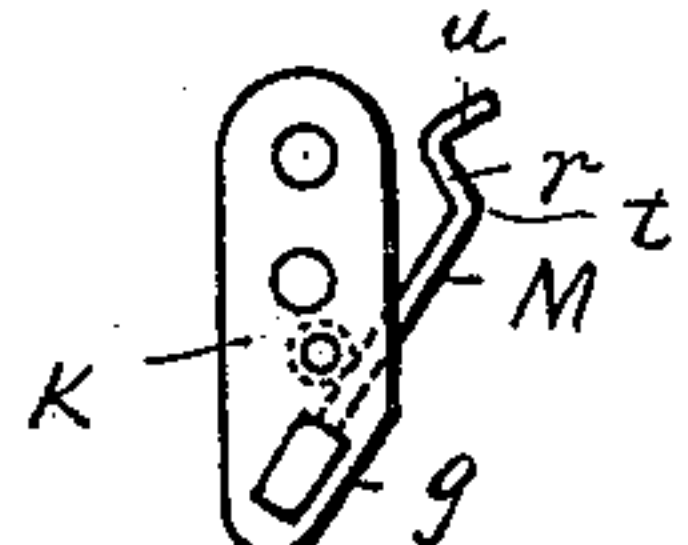


Fig. 4.

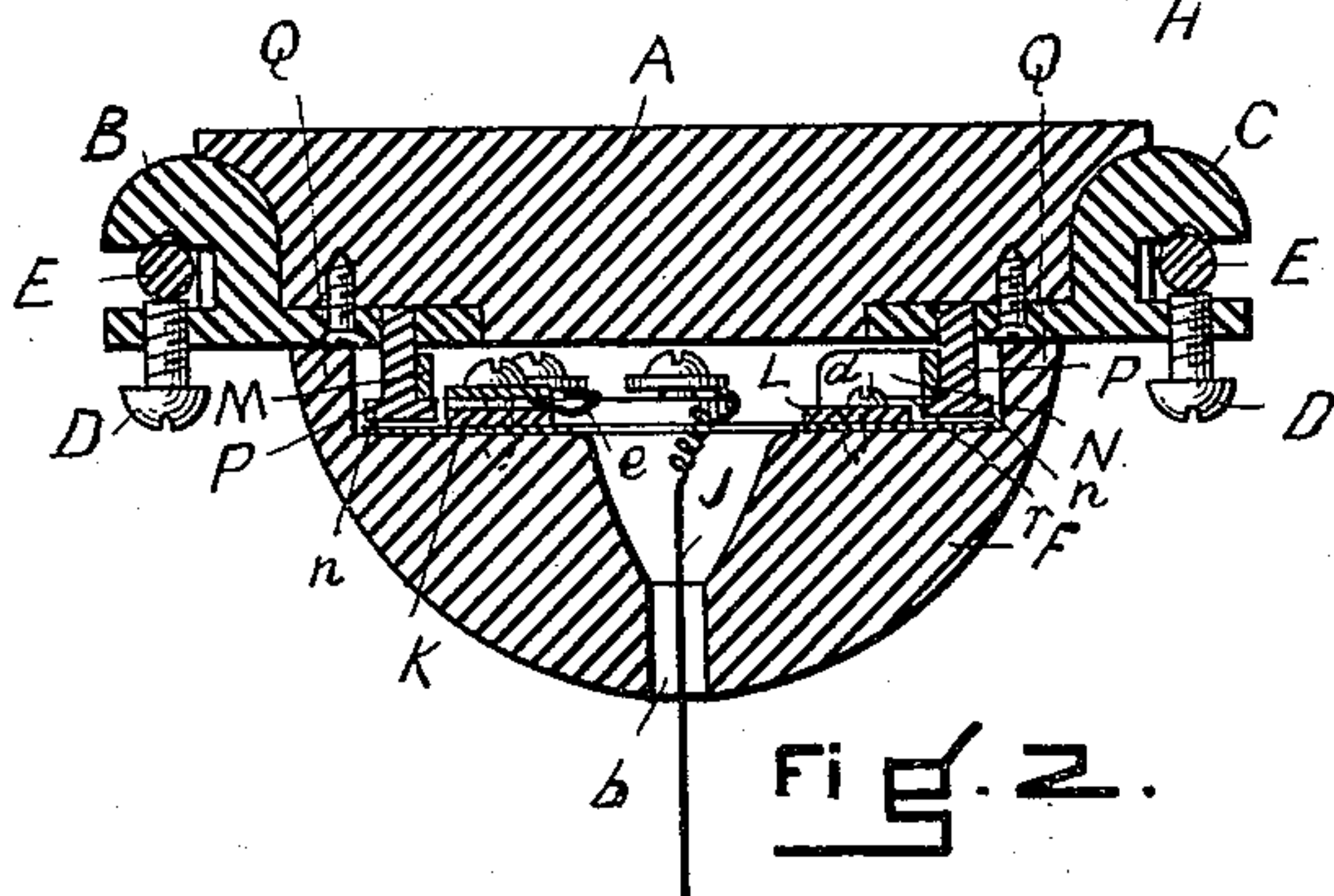


Fig. 2.

WITNESSES.

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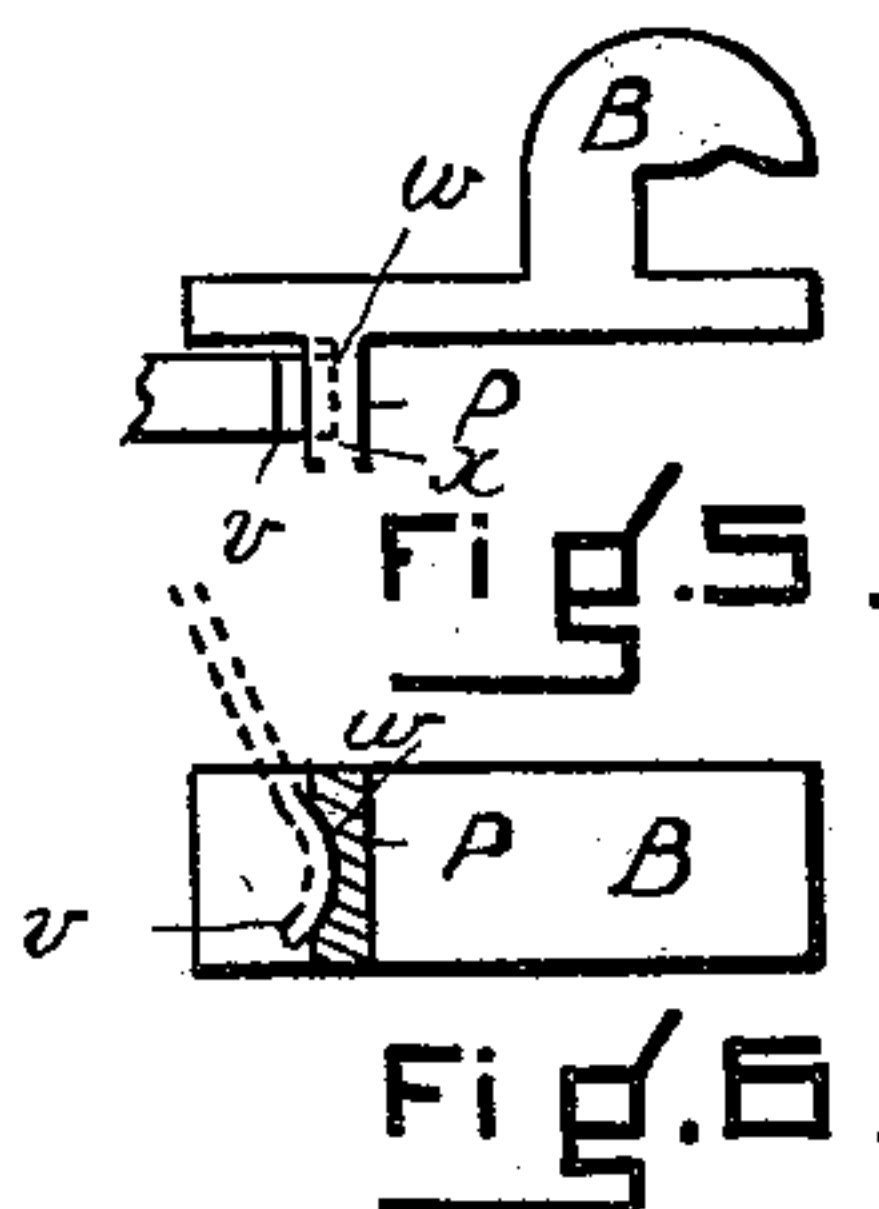


Fig. 6.

INVENTOR

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UNITED STATES PATENT OFFICE.

ALFRED T. TREGURTHA, OF EVERETT, ASSIGNOR OF ONE-HALF TO HENRY A. CLARK, OF BOSTON, MASSACHUSETTS.

CEILING-BLOCK FOR INCANDESCENT ELECTRIC LAMPS.

SPECIFICATION forming part of Letters Patent No. 433,915, dated August 5, 1890.

Application filed September 28, 1889. Serial No. 325,404. (No model.)

To all whom it may concern:

Be it known that I, ALFRED T. TREGURTHA, of Everett, in the county of Middlesex and State of Massachusetts, have invented certain
5 new and useful Improvements in Electrical Cut-Outs, of which the following is a full, clear, and exact description.

This invention relates to the supporting parts of an electrical cut-out for electric incandescent lights more particularly, and
10 which support consists, substantially, of a base, to which the main electric wires are attached, and a cap or cover detachably secured thereto; and the invention consists of means
15 for securing the cap or cover to the base, so that it can be readily and quickly attached thereto and detached therefrom, and when attached held firmly in its proper position, all substantially as and hereinafter fully described,
20 reference being had to the accompanying sheet of drawings, in which is illustrated the present invention, in connection with an electric cut-out having a base and cap or cover thereto.

25 Figure 1 represents the face of the base having the electric main wires attached thereto and the inside face of the cap or cover detached from the base. Fig. 2 is a central cross-section on line 2 2, Fig. 1, with the cap
30 or cover attached to the base; Figs. 3 and 4, detail perspective views, respectively, of some of the parts to be hereinafter referred to; Figs. 5 and 6, side and under views, respectively, of one of the parts to be hereinafter referred to. Fig. 7 is a detail section on
35 line 7 7, Fig. 1.

In the drawings, A represents a circular base of wood or other suitable material adapted to be secured to the ceiling or any
40 suitable support, having secured thereto metal blocks B C diametrically opposite to each other, to each of which is attached by a set-screw D an electric main wire E.

45 F is the cap or cover, to which on its inner face is secured by screws *a* metal plates G H, to which are connected—one to each plate—a wire J, which wires pass down through a central opening *b* and connect with an incandescent electric lamp, (not shown in the drawings,) by which the electric circuit is main-
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tained with the lamp and the lamp also supported from the cover.

K L are plates of metal secured to the cap by screws *d*, which plates are electrically connected to the metal plates G H by fusible
55 wires *e f*.

M N are two flat metallic spring-hooks, one to each metal plate K L, respectively, and rigidly secured to its respective plate at its end *g* by a side edge tongue *h*, which closely
60 fits in a slot *m* or opening in the plate and is riveted on the other side. These springs are located on the cap so that their hooks will be diametrically opposite to each other and in
65 position for a headed pin or projection P (one on each block) to engage with one of the hooks when the cover is in place on the base, each pin or projection having a head *n*, which lies under the edge *r* of the spring-hook, securing
70 the cover firmly in position on the base.

To place the cap or cover in position on the base, put the cover over the base so that the hook of each spring will be a little to the left of a pin or projection on the base, there being
75 space enough between the springs at such place and the rim Q of the cap for the pin-head, and then turn the cap or cover to the right, when the springs will be sprung back sufficiently for the pin to pass by its projecting
80 portion *t* and into the hook between the parts *t* and *u*, the head of the pin passing under the hook and between it and the cap, the portion *u* of each hook stopping further movement of the cap, the pressure of the springs
85 not only firmly securing the cap in its place, but also being equally distant radially from the center of the cap. With the pins correspondingly so on the base, the cap is brought
90 to its central position on the base. When the cap is attached to the base, the pins P and spring M N also make electric contact between the plates G H and metal blocks B C, to which the main wires are secured. This
95 mode of attachment of the cap to the base makes a convenient means for attaching the two together and as readily detaching the same, and also firmly secures them together; also, from the shape of the hooks, having two bearing places or shoulders *t u*, prevent any
100 backward or forward movement of the cap, as

well as holding the cap to its proper central position.

In Figs. 5 and 6 is shown a slight modification of the construction of the pin or projection P and the springs. In these views each spring has its free end *v* bent in the reverse direction, and when the cap is in place on the base it fits in a hollow or socket *w* in the side of the projection or pin P of the block, which prevents backward or forward movement on the base, and by its shoulder *x* prevents its detachment therefrom otherwise.

If desired, the hooks can be placed on the base and the shouldered pins or projections on the cap; also, the pins or projections need have no heads or shoulders, being straight and plain, which might answer in cases where there is no direct pull of the cap from the base; but in such case the head or shoulder should be used.

Having thus described my invention, what I claim is—

1. The combination, with a base provided with electric-wire binding or contact blocks, each having a headed or shouldered pin or projection, of a cap or cover provided with spring-hooks projecting laterally in opposite directions and arranged to engage with the pins or projections, for the purpose specified.

2. The combination, with the base provided

with electric-wire binding or contact blocks and having pins or projections, each provided with a head or shoulder, of a cap or cover provided with spring-hooks M N, each attached to a metal plate secured to the cap or cover by a tongue *h*, riveted in a slot in its plate, for the purpose specified.

3. The combination, with the base provided with electric-wire binding or contact blocks and having pins or projections, each provided with a head or shoulder, of a cap or cover provided with laterally-projecting spring-hooks M N, each having two bearings or shoulders *t u*, for the purpose specified.

4. The combination, with the base provided with electric-wire binding or contact blocks, each block provided with a pin or projection having a head or shoulder, of a cap or cover provided with spring-hooks projecting laterally in opposite directions, attached to metal plates on said cap or cover and arranged to engage with the pins or projections on the base, for the purpose specified.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

ALFRED T. TREGURTHA.

Witnesses:

EDWIN W. BROWN,
CARRIE E. NICHOLS.