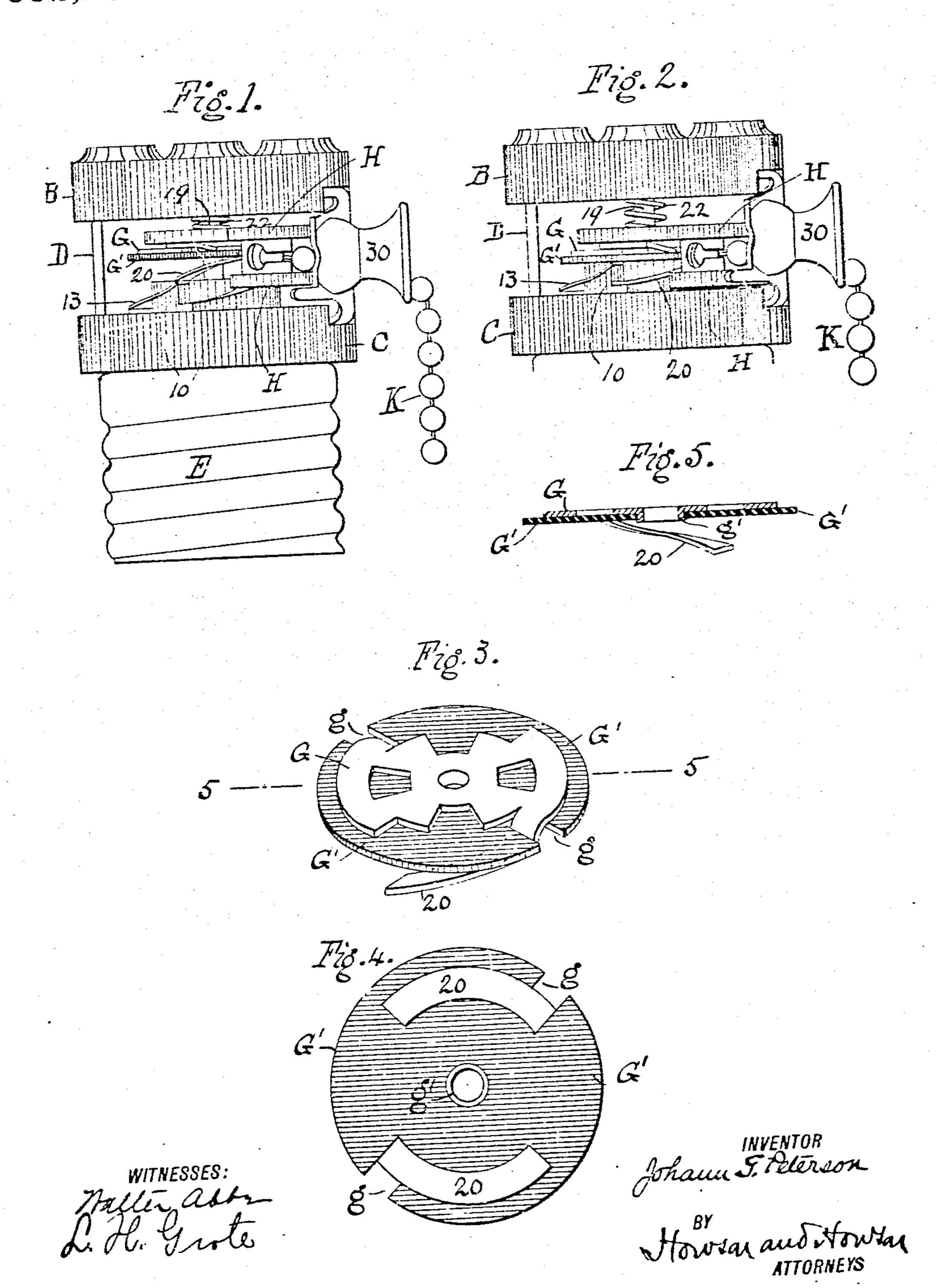
J. G. PETERSON. ELECTRIC LAMP SOCKET. APPLICATION FILED DEC. 17, 1909.

952,276.

Patented Mar. 15, 1910.



UNITED STATES PATENT OFFICE.

JOHANN G. PETERSON, OF HARTFORD, CONNECTICUT, ASSIGNOR, BY MESNE ASSIGN-MENTS. TO MARSHALL ELECTRIC COMPANY, OF HARTFORD, CONNECTICUT, A COR-PORATION OF MAINE.

ELECTRIC-LAMP SOCKET.

952,276.

Specification of Letters Pateni. Patented Mar. 15, 1919.

Application filed December 17, 1909. Serial No. 533,633.

To all whom it may concern:

Be it known that I. Johnny G. Peterson. nectical, have invented certain new and useful Improvements in Electric-Lamp Sockets, of which the following is a specification.

My invention relates to improvements in 16 the wireh mechanism of electric lamp sockets and like electrical appliances, and the main object of my present invention is to so construct such switch mechanism that the several operating parts may be combined in 15 a small space, and that there shall be as little danger as possible from short circuits by areing or contact of parts of opposite polarity. This object I obtain by the construction which I will now describe, refer-20 ring to the accompanying drawing in which I have shown my invention as embodied in an electric lamp socket of the pull socket type, that is to say, one in which the switch mechanism is operated by pulling on a flexi-25 ble chain or cord.

In the accompanying drawing Figure 1 is a side elevation of such a socket, the usual inclosing cap and shell being omitted; Fig. 2 is a similar view of the upper part of the 30 socket but showing parts of the switch mechanism in different positions from those which they occupy in Fig. 1: Fig. 3 is a perspective view of the contact plate or commutator: Fig. 4 is a view of the under-35 side of the same: Fig. 5 is a section on the

line 5 5, Fig. 3. In the feregoing illustration of my invention. I have shown it applied specifically to that construction of pull socket which 40 forms the subject of patents taken out by Harvey Hubbell, and more particularly the construction shown in his Patent No. 693.799, dated February 18, 1902, but it will be understood that I do not restrict my invention 45 to employment in this particular type of

socket.

Referring to Figs. 1 and 2. B is the upper insulating block and C the lower insulating block, the latter carrying the lamp-receiving ! 56 confacts of the Edison or other type, the 55 standards is provided a guide 30 for the G. By this means I am enabled to bring 110

flexible chain K by which the switch mechanism is operated. The inner end of the a citizen of the United States of America, chain is laiched to the insulated operating residing in the city of Hartford, in the wheel or plate II in the usual or any con-5 county of Hartford, in the State of Con- venient way. This operating plate H is 60 provided on its underside with pawl teeth. as usual, to engage shoulders on the upper face of the rotating contact plate G, which has curved spring contact fingers 20 to bear upon the inclined faces 10 on the upper side 65 of the lower porcelain block C. The operating plate II turns on the central post 19 held in the two blocks, and the operating plate is held closely in engagement with the contact plate by means of the usual spiral 70 spring 22, one end of which engages the post 19, while the other end engages the operating plate and acts to return the latter to its normal position, after each actuation by the chain and also to retain the contact fingers 75 20 of the contact plate closely in engagement with the inclines 10 upon the lower in alating block C.

On the upper face of one of the inclines 10 is a centact 13 in electrical connection 80 with one of the posts D, which has a binding screw for one of the leading-in wires, as

I construct my improved commutator or contact plate as shown more clearly in Figs. 85 3, 4 and 5, that is to say, I combine with the metal plate G. a sheet or disk of insulating material G. having radial notches g at diametrically opposite points for the passage therethrough of the curved spring contact 90 fingers 20 which are suitably bent from the plate for that purpose, as best seen in Fig. 3. I prefer to draw the center of the metal plate G into a ferrule g^1 to be passed through a central opening in the disk G' to rivet the 95 disk to the plate, as seen in Fig. 5. In the socket the insulating disk G' lies on the underside of the plate G except in so far as the curved spring contact fingers 20 of the plate. project under the disk. I give such bends to 100 these contact fingers 20 that when in the rotation of the contact plate a spring linger 20 drops off the top of one incline to the bottom of the next, as seen in passing from the position Fig. 1 to the position Fig. 2, the in- 105 usual Edison screw shell E for the purpose | sulating inside G of the plate G may, and being indicated in Fig. 1. The two blocks | preferably does, come into contact with the are spaced apart by suitable standards such | upper end of the contact i3, which would as D, and in connection with one of the not be practicable but for the protecting disk

spring 22 gives a puff of air which will help | tact plate toward the inclined faces. 5 to extinguish any are formed by the contact [3. A contact plate for electric switch

I claim as my invention-

pliances, comprising a series of inclined which said contact fingers pass. 10 faces, and a contact thereon, in combination: 4. A contact plate for electric switch to the inclined faces.

2. A switch mechanism for electric appliances, comprising a series of inclined name to this specification, in the presence of faces and a contact thereon in combination 20 with a rotary contact plate having secured to that side of it which is adjacent to the inclines an insulating disk with notches through which pass the spring contact fin-

the plates B and C much closer together gers on the plate, an operating plate to inthan heretofore. At the same time this de- termittently rotate the contact plate, and a 25 seent of the disk G under the action of the spring to press the operating plate and con-

finger 20 leaving the plate 13. . . . mechanism, having spring fingers and an insulating disk secured to one face of the 30 1. A switch mechanism for electric ap- | plate and provided with notches through

with a rotary contact plate having spring | mechanism having curved spring contact fingers to pass over said inclined faces and fingers bent up therefrom and a central fer- 35 contact, means to intermittently rotate the rule with an insulating disk secured to the contact plate, and insulating material car- | contact plate by said ferrule and having 15 ried by the contact plate on the side adjacent notein. Through which the contact fingers

In testimony whereof I have signed my 40

two subscribing witnesses.

JOHANN G. PETERSON.

. Witnesses:

D. J. GLAZIER, Chas. B. Keisey.