

W. W. JONES.
DOOR HINGE FOR ELECTRICAL RECEPTACLES.
APPLICATION FILED OCT. 30, 1908.

913,504.

Patented Feb. 23, 1909.

Fig. 1.

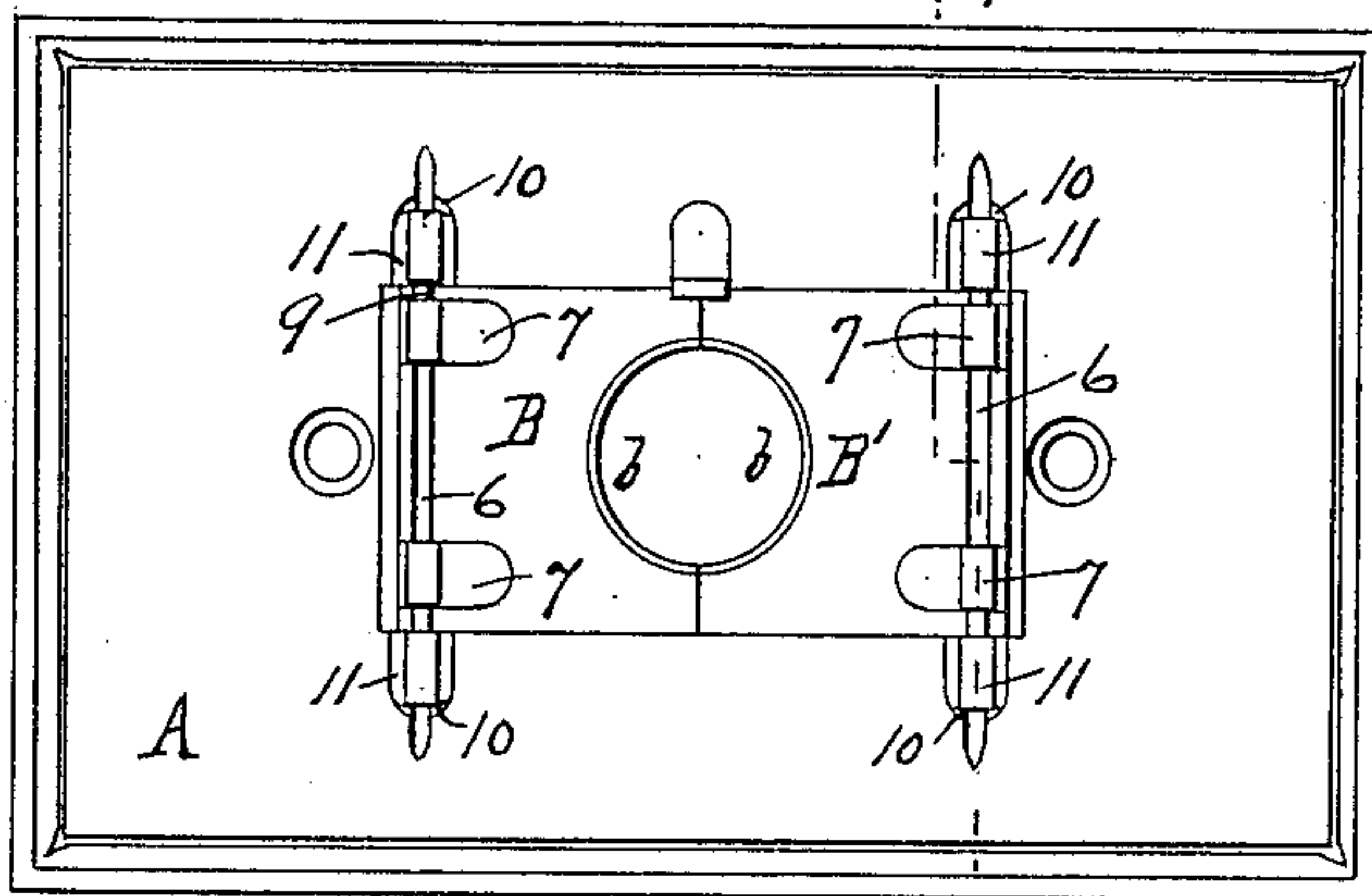


Fig. 2.

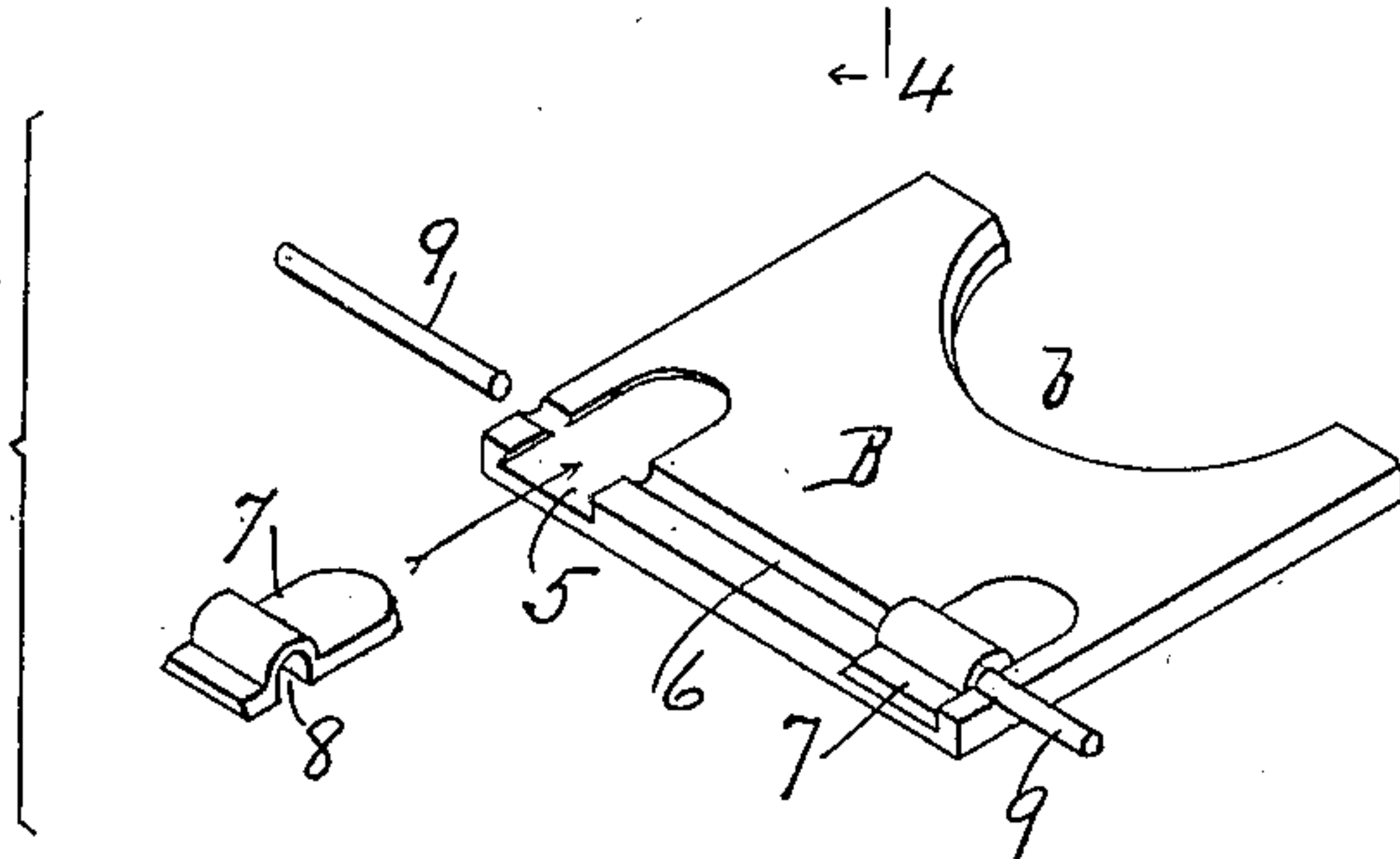


Fig. 3.

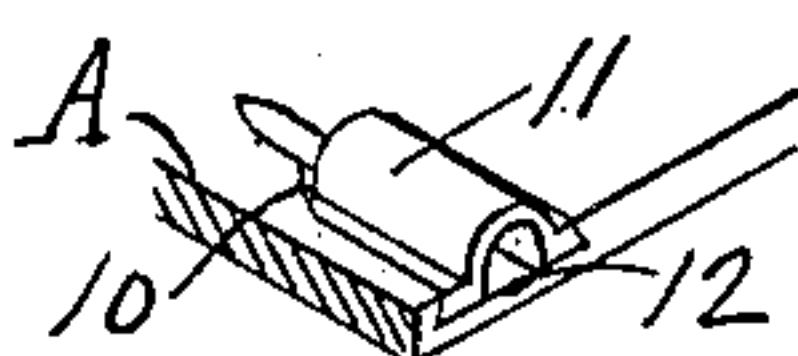
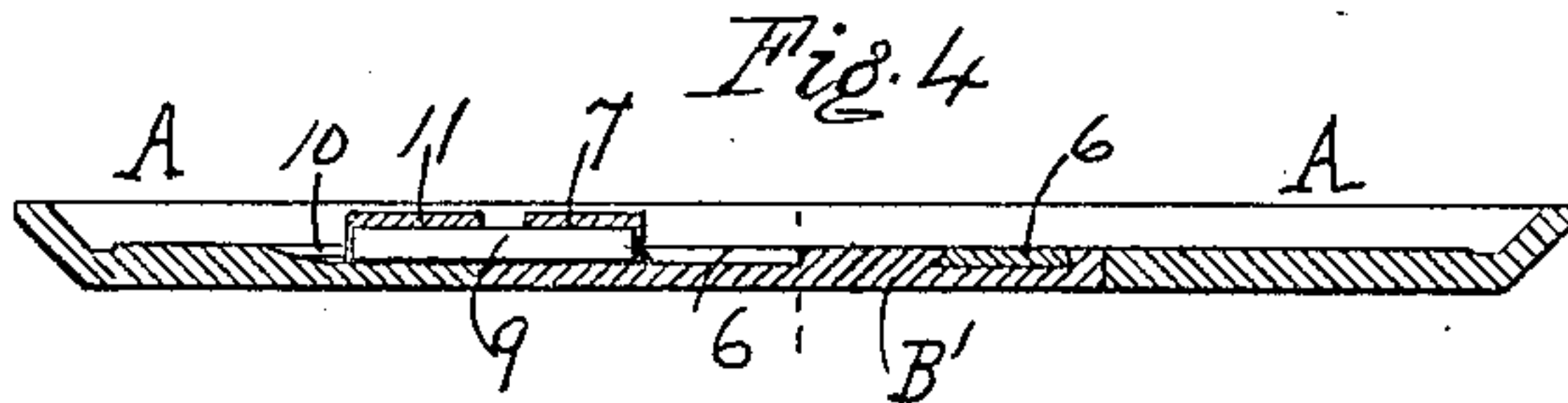


Fig. 4.



WITNESSES
L. H. Grote
M. E. Leir

INVENTOR
William W. Jones
BY

Horace A. Brown

ATTORNEYS

UNITED STATES PATENT OFFICE.

WILLIAM W. JONES, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO THE PERKINS ELECTRIC SWITCH MANUFACTURING COMPANY, OF BRIDGEPORT, CONNECTICUT, A CORPORATION OF CONNECTICUT.

DOOR-HINGE FOR ELECTRICAL RECEPTACLES.

No. 913,504.

Specification of Letters Patent.

Patented Feb. 23, 1909.

Application filed October 30, 1908. Serial No. 460,302.

To all whom it may concern:

Be it known that I, WILLIAM W. JONES, a citizen of the United States of America, residing in the city of Bridgeport, in the county of Fairfield, in the State of Connecticut, have invented certain new and useful Improvements in Door-Hinges for Electrical Receptacles, of which the following is a specification.

My invention relates more particularly to the face plates of electrical plug receptacles and the like, where hinged doors are provided to cover the hole in the face plate through which the plug is introduced into the receptacle, but my invention is applicable to the hinging of doors in other devices.

Face plates for plug receptacles are now preferably made of stamped metal, but owing to the thinness of the metal sheet, it is not convenient to hinge the doors in the ways heretofore employed with plates made of thick metal. I have devised a construction whereby the doors may be conveniently, cheaply and simply but securely hinged to comparatively thin metal plates.

In the accompanying drawings Figure 1 is a view of the inner face of an electrical plug receptacle face plate provided with my invention; Fig. 2 is a perspective view, drawn to a larger scale, of one of the doors, with one of its hinging parts detached; Fig. 3 is a perspective view of part of the plate; Fig. 4 is a transverse section on the line 4—4, Fig. 1, but drawn to a larger scale.

A is the stamped metal face plate intended to be secured over the open end of a plug receptacle casing of porcelain or the like. In the center of the face plate is the usual rectangular opening for the introduction and removal of the attachment plug, and closed by two doors B, B¹, hinged near their outer ends to the plate and meeting when closed at the center of the plate, where, however, semi-circular notches *b, b*, in the meeting edges leave a round hole for the free passage of the insulated cords leading to the inserted plug. To hinge each of these doors to the plate, I provide the following construction: I mill out of the inner face of each door from its back edge two undercut recesses 5, one near each side of the door. I also cut in the inner face of the door a

circular in cross-section, and parallel with the back edge of the door. I then provide hinging plates 7 with undercut edges to fit into the undercut recesses 5, and each of these plates is stamped up to provide a substantially semicircular groove 8 across its inner face to register with the transverse groove 6, when the hinge plate is fitted into its recess. When thereupon a hinge pin 9 is introduced into the socket thus provided by the grooves 6 and 8, the hinge pin will serve at the same time to lock the plate 7 in its recess 5. I follow a similar construction in providing the socket in the plate for each hinge pin, that is to say, I mill out on the back of the plate adjacent to where the hinge pin will come an undercut recess 10 to receive a socket plate 11, which has a substantially semicircular groove 12 formed on its inner face to receive the end of the hinge pin. By cutting the groove 6 all the way across the back of the plate, the hinge pin 9 for the two hinges in each door may be introduced into the part of the groove 6 between the plates 7, 7, and each pin in turn may then be pushed outwardly through the socket in its plate 7 and into the socket in plate 11. The hinge pins may then be secured in place by staking down their inner ends in the grooves 6.

I claim as my invention—

1. A door having an undercut recess and a transverse groove therethrough with a grooved hinging plate in said undercut recess, in combination with a hinge pin passing through the grooves of the door and plate and securing them together and extending beyond to go into a receiving socket.

2. A hinge of the character described, comprising a grooved socket plate with beveled edges adapted to engage an undercut recess in a stationary abutment, in combination with a pin engaging in the groove of said socket plate and adapted to engage a socket on the movable member to form a hinge, substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses.

WILLIAM W. JONES.

Witnesses:

L. B. WHEELER,

H. W. GOLDSBOROUGH.