E. H. FREEMAN.

FASTENING FOR ELECTRICAL SIGN RECEPTACLES.

APPLICATION FILED FEB. 4, 1909.

925,168. Patented June 15, 1909.

Fig. 1.

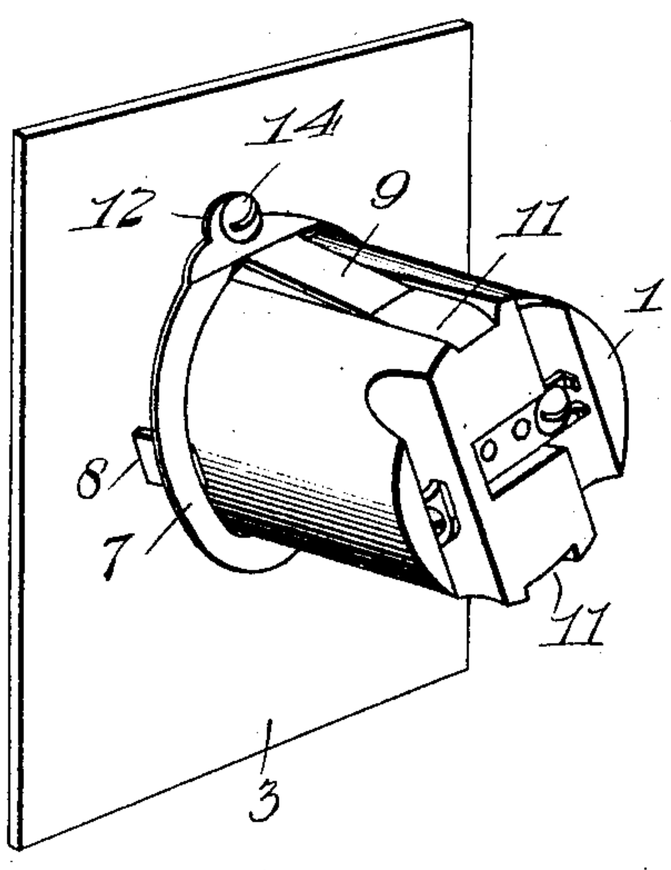


Fig. 2.

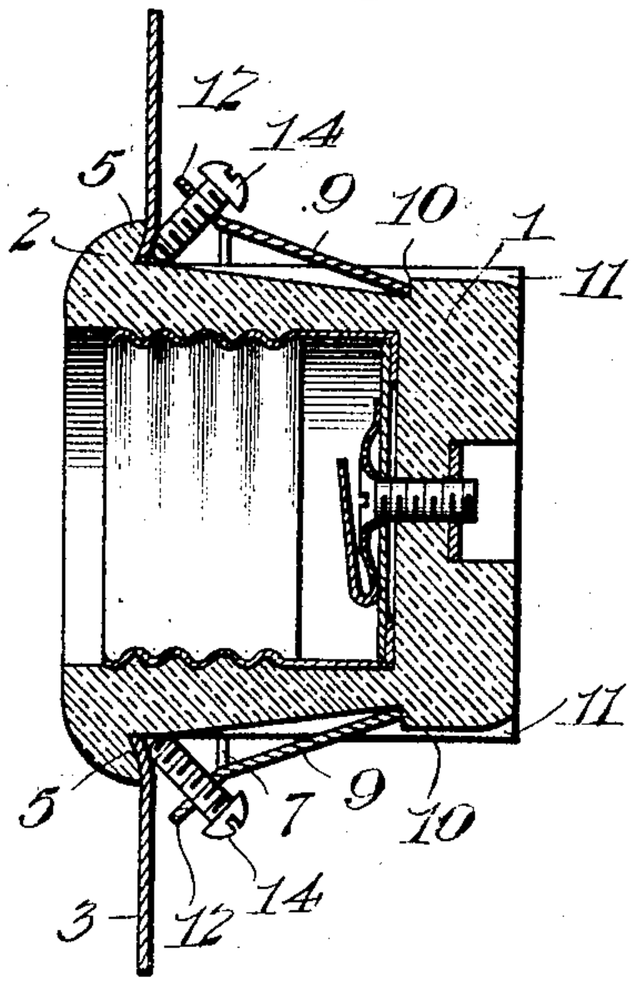


Fig. 3.

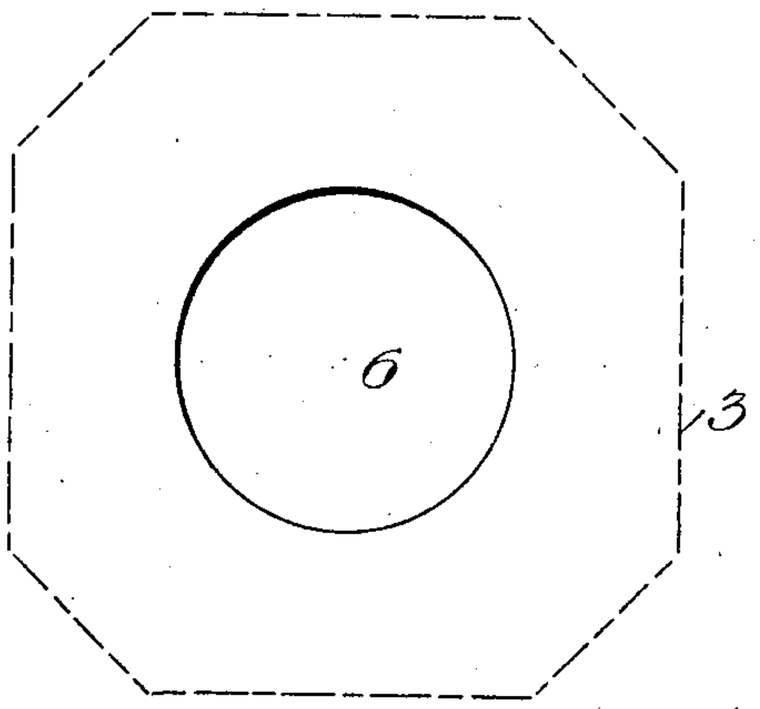


Fig. 5.

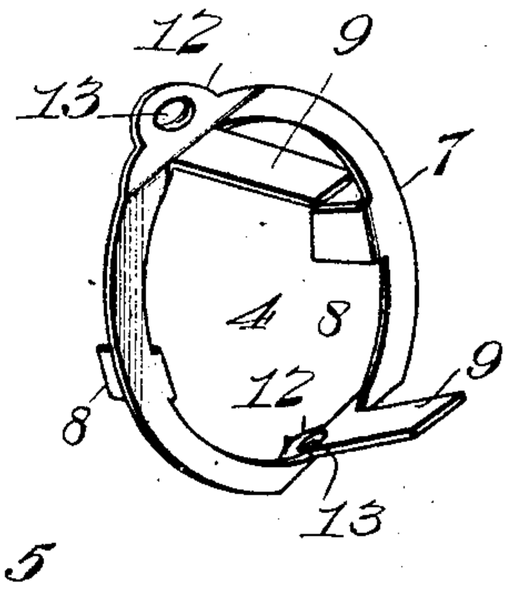
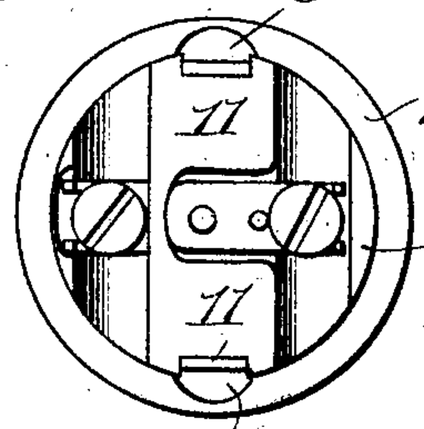


Fig. 4.



Witnesses

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FASTENING FOR ELECTRICAL SIGN-RECEPTACLES.

No. 925,163. Specification of Letters Patent. Patented June 15, 1909.

Application filed February 4, 1909. Serial No. 476,052.

To all whom it may concern:

Be it known that I, EDGAR H. FREEMAN, a citizen of the United States, residing at Trenton, in the county of Mercer and State of New Jersey, have invented certain new and useful Improvements in Fastenings for Electrical Sign-Receptacles, of which the following is a specification.

This invention relates to electrical sign receptacles, and particularly to the mounting and fastening thereof upon a sign board or equivalent supporting element or sheet.

The primary object of the invention is to provide a simple and inexpensive form of fastening device capable of general application to any and all kinds of sign receptacles and which can be easily handled and manipulated, while at the same time providing for readily and securely fastening the receptacle to the sign board or other supporting element in which it may be installed.

With these and other objects in view, which will readily appear to those familiar with the art, the invention consists in the novel construction, combination and arrangement of parts hereinafter more fully described, illustrated and claimed.

In the accompanying drawings: Figure 1 is a rear perspective view of a sign board or other supporting element illustrating an electrical receptacle fastened therein by a fastening device constructed and arranged in accordance with the present invention. Fig. 2 is a sectional view of the construction shown in Fig. 1. Fig. 3 is a plan view of the sign board or supporting element illustrating the plain round formation of the hole to receive the receptacle body. Fig. 4 is a rear elevation of the receptacle body illustrating the keeper notches in an annular collar at the front end of the receptacle body. Fig. 5 is a detail in perspective of the complete fastening device removed from the receptacle body.

Like references designate corresponding parts in the several figures of the drawings.

The fastening device claimed herein may be fitted to different kinds and styles of electrical receptacles which are designed to be installed in a sign sheet or equivalent supporting element, so for illustrative purposes, there is shown in the drawings an electrical sign receptacle of the type which embodies in its organization a one-piece porcelain or equivalent body 1 which is equipped with the necessary contacts and line terminal elements. The receptacle body 1 is illustrated as being provided at its front or outer end with an annular binding collar 2 presenting at its inner side a shoulder to impinge against one side of a sign sheet or other supporting element 3 in opposition to the fastening device 4, which is adapted to be placed over the receptacle body, at the opposite side of the supporting element, as plainly shown in Figs. 1 and 2 of the drawings.

In carrying forward the present invention, it is unnecessary to provide any special means, in the formation of the hole in the sign board or sheet, or in or upon the receptacle body, to prevent the latter from turning, as this function is provided for by the construction and action of the fastening device in connection with keeper notches or equivalent seats 5 provided in diametrically opposite portions of the shoulder at the inner side of the collar 2, as will be presently explained. Hence, in using the present invention, it is only necessary to provide the sign board or equivalent supporting element 3 with the plain circular holes 6 for receiving the receptacle body.

The fastening device 4 essentially consists of a one-piece metal blank so stamped and set up as to provide a ring member 7 having at diametrically opposite points forwardly projecting bearing feet 8 bent laterally from the inner edge portions of the ring member at opposite points and adapted to be held in firm contact with the supporting element 3 in opposition to the inner side of the collar 2 of the receptacle body. The said ring or frame member 7 of the fastening device also has struck up therefrom at diametrically opposite points, rearwardly extending spring locking tongues 9 adapted to engage behind catch shoulders 10 formed on opposite sides of the receptacle body 1. In connection with the opposite catch shoulders 10, the body is also provided in opposite sides at and contiguous to the inner end thereof with the guiding grooves 11 which serve to guide and lead the free ends of the spring tongues 9 up to the point where they snap into engagement with the snap shoulders 10. In addition to the elements specified, the ring or frame member 7 is provided at opposite points with offstanding slightly inclined or deflected bearing ears 12 having threaded openings 13 therein adapted to adjustably receive therein the binding screws

14. These binding screws are held at an inclination by the ears 12 and are adapted to be screwed tightly against edge portions of the supporting element directly over the keeper notches 5 so as to slightly pinch said edges into said notches 5 and thus interlock the several elements together to prevent turning of the receptacle in its hole. The loosening of the screws 14 and the lifting of the free ends of the tongues 9 out of engagement with the shoulders 10 permits the fastening device to be readily removed from the receptacle body, and in mounting the parts in place, after a receptacle body has been inserted in its hole, it is only necessary to slip the fastening device over the body to the position described and then tighten up the screws 14, with the result of obtaining a very secure and non-slipping fastening for the receptacle, all of which will be readily understood by those familiar with the art.

I claim:

1. In an electrical receptacle mounting, the supporting element, the receptacle body having catch shoulders, and a fastening device comprising a ring member provided at one side with spring locking tongues for engagement with said catch shoulders, and at the side opposite said tongue with offset binding elements for engagement with one side of the supporting element.

2. In an electrical receptacle mounting, the supporting element having a plain round receiving hole, the receptacle body adapted to be inserted through said hole and provided with a collar presenting a binding shoulder bearing against one side of the supporting element and provided with keeper notches, and a fastening device mounted upon the receptacle body and carrying binding screws engaging edge portions of the supporting element over said keeper notches.

3. In an electrical receptacle mounting, the supporting element, the receptacle body having a binding shoulder provided with keeper notches therein, and a fastening device having an interlocking engagement with the receptacle body and provided with bearing ears, binding screws adjustably mounted in said bearing ears and impinging edge portions of the supporting element over said keeper notches.

4. In an electrical receptacle mounting, the supporting element, the receptacle body having oppositely arranged catch shoulders, and a fastening device comprising a ring member provided with opposite inclined spring locking tongues engaging the catch shoulders, offstanding bearing feet engaging against one side of the supporting element, and oppositely located threaded bearing ears, and binding screws mounted in said bearing ears and impinging against edge portions of the supporting element.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

EDGAR H. FREEMAN.

Witnesses:

FLORENCE BAUMEISTER,

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