

E. H. FREEMAN.
ELECTRICAL RECEPTACLE MOUNTING.
APPLICATION FILED AUG. 3, 1908.

947,154.

Patented Jan. 18, 1910.

Fig. 1.

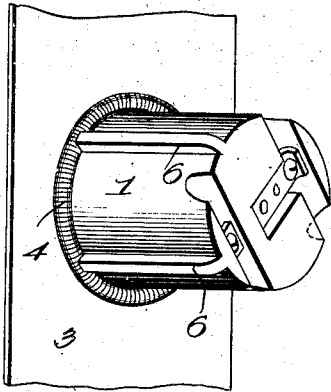


Fig. 2.

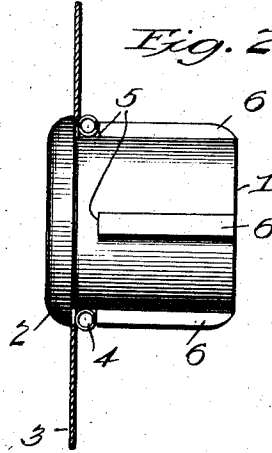


Fig. 3.

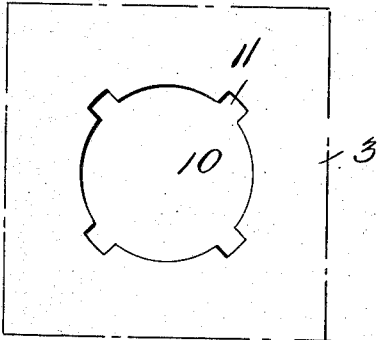


Fig. 4.

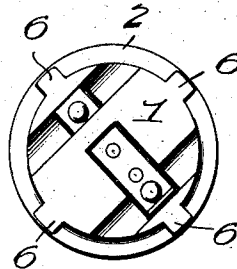


Fig. 5.

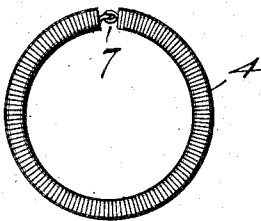
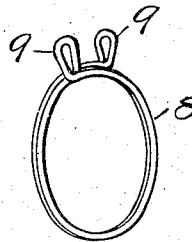


Fig. 6.



Witnesses

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UNITED STATES PATENT OFFICE.

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ELECTRICAL-RECEPTACLE MOUNTING.

947,154.

Specification of Letters Patent.

Patented Jan. 18, 1910.

Application filed August 3, 1908. Serial No. 448,788.

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 Electrical-Receptacle Mountings, of which the following is a specification.

This invention relates to the subject of electrical receptacles, and more particularly to the mounting of such receptacles on a sign board, junction box cover, or other supporting element.

To this end the invention has in view associating with the receptacle body a simple, practical, and inexpensive form of clamping device easily handled and manipulated, and at the same time providing means for readily and satisfactorily fastening the receptacle to the sign board or other supporting element in which it may be installed.

A further general object of the invention is to provide a simple fastening device capable of general application to any and all types of sign receptacles without requiring any material change in the construction of the receptacle body.

The improved fastening device may be utilized in different forms, and various modifications may be resorted to in the application of the invention, but certain practical embodiments of the latter are shown in the accompanying drawings, in which:

Figure 1 is a general perspective view illustrating an electrical receptacle fastened upon a sign board or other supporting element by the spring clamping device claimed herein. Fig. 2 is a sectional elevation of the construction shown in Fig. 1. Fig. 3 is a plan view of the sign board or supporting element showing the formation of the hole to receive the receptacle body illustrated in Figs. 1 and 2. Fig. 4 is a rear end view of the design of receptacle body shown in the drawings. Fig. 5 is a plan view of one form of spring clamping band that may be employed in carrying out the invention. Fig. 6 is a detail in perspective of another form of a spring clamping band which may be used for the fastening device.

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

The improved spring fastening forming the subject matter of this application may be fitted to different kinds and styles of

electrical receptacles, but for illustrative purposes, the same is shown in the drawings as applied to a receptacle of a form possessing special utility as a sign receptacle, and embodying in its organization a one-piece porcelain or equivalent receptacle body 1. This receptacle body is illustrated as being provided at what may be termed its outer end, with an annular binding collar 2 presenting at its inner side a binding shoulder to impinge against one side of the sign sheet or other supporting element 3 in opposition to the spring clamping device 4, which is adapted to be sprung or snapped over the receptacle body at the opposite side of the supporting element 3.

The spring clamping device 4 is in the form of a spring band capable of being expanded sufficiently to be slipped over the receptacle body, and which, when released, will contract under spring pressure onto and about the body so that it will firmly remain in its clamping position behind and against the sign sheet or supporting element 3 and within what may be termed an annular retaining seat 5 provided on and around the receptacle body next to the binding collar 2. This annular retaining seat is practically a groove about the receptacle body provided by forming the receptacle body with a plurality of longitudinally arranged spaced holding ribs 6 presenting shoulders between which and the sign sheet the spring clamping device is confined. The spring clamping band 4, as shown in Figs. 1, 2 and 5, simply consists of a closely wound coiled spring looped into ring form and coupled together at its extremities as at 7. Obviously, various other forms of spring bands, capable of expanding and contracting may be utilized, and another example of the same is suggested in Fig. 6, which illustrates a spring clamping band consisting of a spirally coiled length of spring wire 8 having its terminals extended past each other and deflected outwardly to form finger pieces 9. These finger pieces, when drawn toward each other, serve to spread or expand the band so that it may be slipped over the body and sprung into engagement with the retaining seat 5.

In using a body with the holding ribs 6, the receptacle receiving hole 10 is formed in its edges with guiding notches 11 which prevent the receptacle from turning in the

face of the sign. In this connection it will be observed from Fig. 2 of the drawings, that short sections of the ribs 6 lie in the notches 11 of the sign sheet to secure the
5 function noted.

Changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the
10 invention.

I claim:

In an electrical receptacle mounting, the combination with a supporting element hav-

ing notches in the edge of the receiving hole, the receptacle body having external ribs for 15 engagement with said notches, and a continuous spring band sprung over said body between one side of the supporting element and adjacent end portions of said ribs.

In testimony whereof I hereunto affix my 20 signature in the presence of two witnesses.

EDGAR H. FREEMAN.

Witnesses:

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