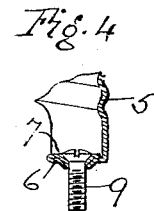
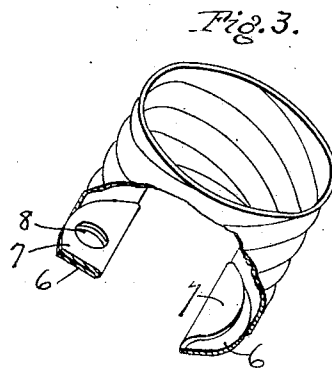
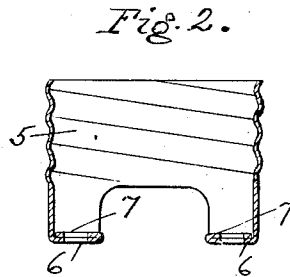
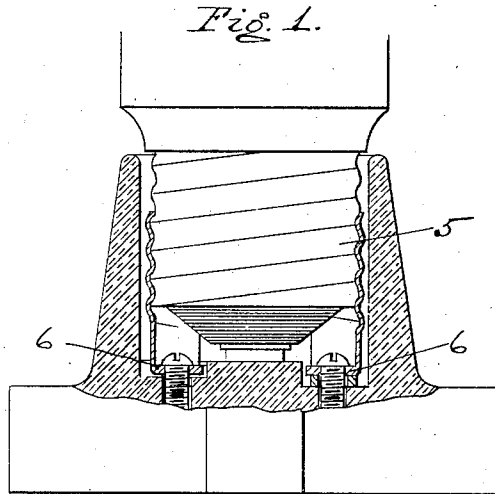


G. W. GOODRIDGE.
ELECTRICAL RECEPTACLE.
APPLICATION FILED MAY 6, 1909.

940,526.

Patented Nov. 16, 1909.



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ELECTRICAL RECEPTACLE.

940,526.

Specification of Letters Patent.

Patented Nov. 16, 1909.

Application filed May 6, 1909. Serial No. 494,303.

To all whom it may concern:

Be it known that I, GILBERT W. GOODRIDGE, a citizen of the United States of America, and residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented a certain new and useful Improvement in Electrical Receptacles, of which the following is a specification.

My invention relates to electrical receptacles and particularly to shell receptacles of the type commonly employed in incandescent lamp sockets, and screw plug receptacles of various sorts, such for instance as connection blocks, fuse plug blocks and the like, my object being to improve the construction of such shells in the particular pointed out hereinafter.

In the accompanying drawings, Figure 1 is a broken section of a screw plug receptacle to the shell of which my invention has been applied; Fig. 2 is a vertical section of a screw shell showing my invention in another form; Fig. 3 is a perspective view of said shell partially broken away to show a third form; and Fig. 4 is a section of portion of the shell showing a detail of construction.

It is customary to make the screw shells for plug receptacles, sockets, etc. of very thin metal which may be drawn up in suitable dies to the desired shape, and then to punch out of the base an aperture for the admission of the center contact. This aperture usually extends across the base and partially up the sides of the shell, leaving the sides of the base as inwardly projecting flanges which are perforated to receive the screws by means of which the shell is fastened to its base. Inasmuch as the shell is of quite thin metal however, the flanges thus formed are not strong and it not infrequently happens, particularly in the case of attachment plug and fuse plug receptacles, that on the screwing in of the attachment or fuse plug, the screws are torn wholly or partially through these flanges and the shell thereby loosened on the base. The strain on the flanges of the shell if the plug is still rotated after its projecting center contact has reached the center contact of the receptacle, will be readily understood. To obviate this defect I propose to make the screw shell with a reinforced securing flange. This may be accomplished in any suitable manner. Thus in Fig. 1 the flanges 6 on the shell 5

are shown as substantially twice as heavy as the metal of the shell proper; this being accomplished by using heavier sheet metal and drawing out to the desired thinness only that portion which forms the screw shell proper. The same result may be more readily accomplished however, by using the customary thin metal and folding back upon the flange a suitable portion 7 of the base, which is ordinarily cut away as waste. This is shown in cross section in Fig. 2. While it is not necessary that this folded back portion cover the entire flange 6, a neater and more finished shell is produced when this is done, as shown in Fig. 3. In the latter figure, the flange on the left hand side is shown with the reinforcing base portion shaped thereto and rolled over in place, with the perforation 8 for the securing screw passing through both thicknesses of metal. The right hand side of this figure shows the reinforcing base portion being rolled over into place.

The partial section illustrated in Fig. 4 shows the customary offsetting of the metal adjacent the perforation for the securing screw 9 to receive the head of the latter.

Other ways of accomplishing the results above described may be readily devised and I do not limit myself to the precise structures shown but

I claim as my invention.

1. A screw shell for an electrical receptacle having securing flanges, portions of said receptacle being bent over upon said flanges to reinforce the same for the purpose specified.

2. A screw shell for an electrical receptacle having a base cut away to form securing flanges, portions of said base being rolled over upon said flanges to reinforce the same for the purpose specified.

3. A screw shell for an electrical receptacle having a base cut away to form securing flanges, portions of said base being shaped to and rolled over upon said flanges to reinforce the same for the purpose specified.

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

GILBERT W. GOODRIDGE.

Witnesses:

A. H. JONES,

H. W. GOLDSBOROUGH.