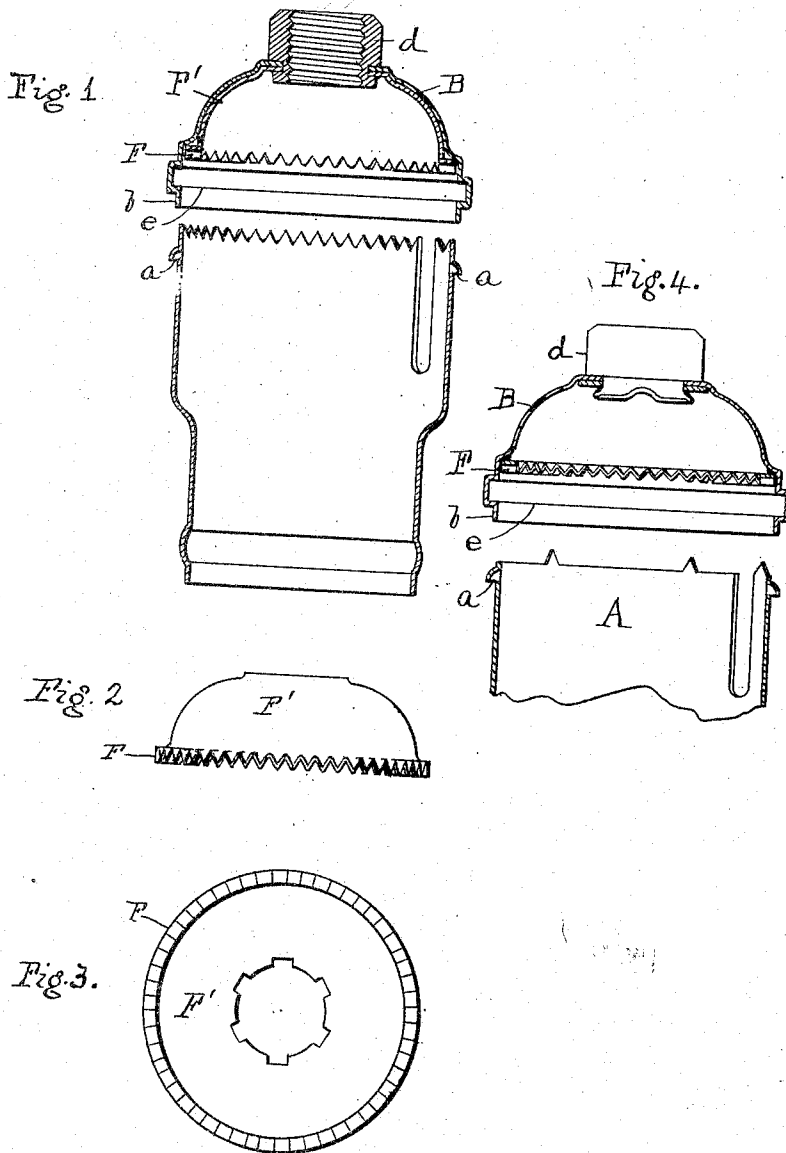


947,123.

J. G. PETERSON.
ELECTRIC LAMP SOCKET.
APPLICATION FILED OCT. 25, 1909.

Patented Jan. 18, 1910.



WITNESSES:
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UNITED STATES PATENT OFFICE.

JOHANN G. PETERSON, OF HARTFORD, CONNECTICUT, ASSIGNOR TO THE ARROW ELECTRIC COMPANY, OF HARTFORD, CONNECTICUT, A CORPORATION OF CONNECTICUT.

ELECTRIC-LAMP SOCKET.

947,123.

Specification of Letters Patent.

Patented Jan. 18, 1910.

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To all whom it may concern:

Be it known that I, JOHANN G. PETERSON, a citizen of the United States of America, residing in the city of Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Electric-Lamp Sockets, of which the following is a specification.

My invention relates to that class of electric lamp sockets in which the metallic cap and shell are provided with means for detachably securing them together in any one of many different positions rotarily, these means including teeth on the inner end of the shell in combination with corrugations in the cap to receive the teeth on the end of the shell and spring latching means to prevent the endwise detachment of the shell from the cap.

The object of my invention is to provide a convenient, and inexpensive construction of the cap part, such that the cap will be stronger than as heretofore constructed, and presenting a better appearance externally, while at the same time more effective holding means are provided to cooperate with the teeth on the end of the shell.

In the accompanying drawings Figure 1 is a vertical section of a cap and shell, embodying my invention and shown detached from each other; Fig. 2 is a side view of the internal holding ring in cup form, before it is secured in the cap; Fig. 3 is a face view of the same; Fig. 4 is a sectional view of a modification.

As shown in Fig. 1, the end of the shell A which is to be sleeved within the flange b of the cap B is made with any suitable number of teeth. These teeth, which may conveniently be shaped like saw teeth, may be many in number, as indicated in Fig. 1, or few as indicated in Fig. 4.

In cap and shell fastening constructions employing this arrangement of teeth to hold the cap and shell rotarily, the notches or teeth to cooperate with the teeth on the shell have been formed in the metal of the cap itself, but that I found to be undesirable both because it weakens the cap and injures its appearance, and also because it is difficult to get in the cap satisfactory hold-

ing teeth or notches. To meet these difficulties I secure within the cap a corrugated ring whose width lies in a plane at right angles to the axis of the cap and shell. I prefer to form this ring as the flange of a cup to be secured within the cap by means of the nipple, as hereinafter described.

Referring to Figs. 1, 2 and 3, the cap B has any usual or convenient form of nipple d, and the cap is, as heretofore, spun up with an internal annular shoulder e to receive and engage the bevel latching projections a on the shell A to secure the two together longitudinally. Just back of this shoulder e I provide the corrugated engaging ring F, which I prefer to form on or as the flange of a sheet metal cup-shaped piece F', fitting within the cap B, and secured in place by the flanging over of the nipple d. The width of the flange F lies in a plane substantially at right angles to the axis of the cap and therefore it presents a wide face for engagement of the teeth on the end of the shell. Instead of making this corrugated ring as the flange of a cup which is secured to the cap as described, the ring may be made without the supporting cup part, and may be secured within the cap by soldering, as indicated in Fig. 4. In either case, the corrugated sheet metal ring, besides possessing the advantages above described, is easy and economical to make, and yet strong and durable and also strengthening to the cap.

I claim as my invention:

1. An incandescent lamp socket, comprising a shell with teeth on its inner end in combination with a cap, containing a corrugated ring secured in the cap to engage the teeth on the end of the shell and means for latching the shell and cap together against endwise detachment.

2. An incandescent lamp socket, comprising a shell with teeth on its inner end in combination with a cap containing a cooperating corrugated ring secured in the cap and whose width is in a plane at right angles to the axis of the cap and means for latching the shell and cap together against endwise detachment.

3. An incandescent lamp socket, compris-

ing a shell with teeth on its inner end in combination with a cap containing a flanged cup secured in the cap, said flange being corrugated to cooperate with the teeth of the
5 shell and spring latching means to hold the shell and cap together longitudinally.

In testimony whereof I have signed my

name to this specification, in the presence of two subscribing witnesses.

JOHANN G. PETERSON.

Witnesses:

D. J. GLAZIER,
CHAS. B. KELSEY.