

G. W. GOODRIDGE.
ELECTRIC LAMP SOCKET CAP.
APPLICATION FILED OCT. 22, 1909.

958,626.

Patented May 17, 1910.

Fig. 1

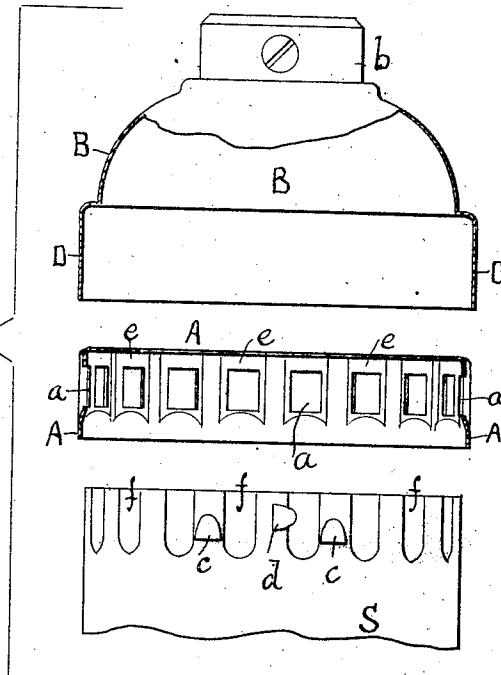


Fig. 2

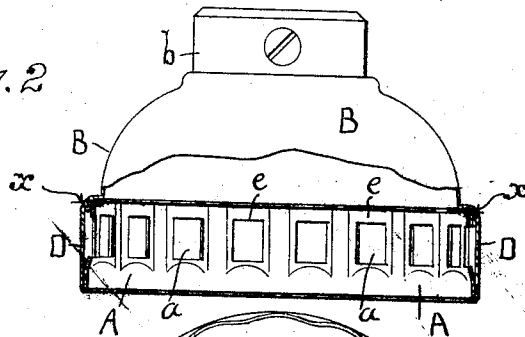
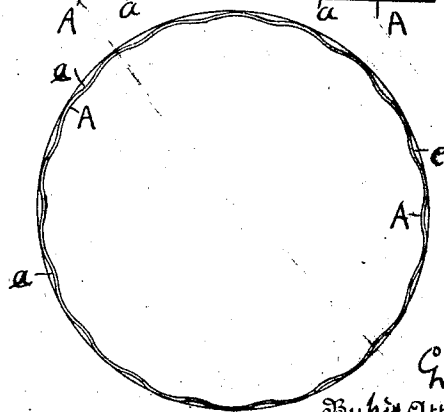


Fig. 3



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UNITED STATES PATENT OFFICE.

GILBERT W. GOODRIDGE, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO THE BRYANT ELECTRIC COMPANY, OF BRIDGEPORT, CONNECTICUT, A CORPORATION OF CONNECTICUT.

ELECTRIC-LAMP-SOCKET CAP.

958,626.

Specification of Letters Patent.

Patented May 17, 1910.

Application filed October 22, 1909. Serial No. 523,980.

To all whom it may concern:

Be it known that I, GILBERT W. GOODRIDGE, a citizen of the United States of America, residing in the city of Bridgeport, in the county of Fairfield, in the State of Connecticut, having invented a certain new and useful Improved Electric-Lamp-Socket Cap, of which the following is a specification.

My invention has more particular reference to sockets for incandescent electric lamps of the general type illustrated in my Letters Patent No. 879,819, dated February 19, 1908, and No. 872,283, dated November 26, 1907. One of the characteristic features of these sockets is the provision of means whereby the shell may be secured to the cap in any one of many different positions rotarily. For this purpose, in the preferred form of the the sockets shown in my patents the flanges of the caps and the shell are provided one, with a large number of symmetrically arranged openings to cooperate with engaging means on the other and as shown in my Patent No. 782,283, the flange of the cap is preferably also corrugated longitudinally of its axis in proportion to the number of engaging openings therein.

The main object of my present invention is to so construct a cap of this character that it will be stronger and more rigid than the old style of cap, and easier to finish and polish and manufacture, and will possess all the advantages growing out of the use of my said patented improvements.

In the accompanying drawings Figure 1 is a vertical section showing two parts of my cap before they are put together; Fig. 2 is a sectional view when the parts are secured together; Fig. 3 is a plan view of the retaining ring to be secured within the cap.

The cap B may be provided with any usual or convenient form of nipple *b*, and it has a plain flange D.

In the sockets of my above mentioned patents some of the engaging means for securing the shell and cap together were formed in the flange of the cap. According to my present invention I provide a separate ring for this purpose to be secured within the flange of the cap.

In the drawings I have shown the specific form of latching and securing means on the shell and cap disclosed in my said Patent No. 872,283, and I have formed in the in-

serted ring A a large number of symmetrically arranged rectangular openings *a* through the walls of the ring, and I have likewise shown the ring as corrugated *e* parallel with its axis, the number of corrugations *e* being proportionate to the number of openings *a*. The end of the shell S is correspondingly corrugated longitudinally of its axis as shown at *f*, and it is provided with two sets of latching lips *c*, *d*, punched and cut out of the metal of the shell to engage the openings *a* in the ring, one set of these latches being designed to prevent a longitudinal detachment of the shell from the cap and the other to prevent rotary motion of the shell within the cap.

The securing ring A is made to fit closely within the flange of the cap and is secured in place by spinning the outer edge of this cap over the ring as seen in Fig. 2. Any suitable means may be used to prevent the ring A from turning within the flange of the cap. This may be accomplished by making the ring A a very tight fit within the flange, forcing it into place, or as indicated at the left-hand side of Fig. 2, one or more dents may be punched into the cap of the flange to drive the metal of the cap into the space or spaces between corrugations.

The cap thus made is very strong and rigid at its flange where principal strain would come, and at the same time a smooth outer surface is presented which is much easier to finish and to polish than the corrugated perforated flange.

I claim as my invention:

1. An electric lamp socket having a plain flange with a ring to aid in securing the shell to the cap in any one of the many different positions, said ring being permanently secured within the flange of the cap.

2. A socket having a shell with outwardly projecting tongues, a cap fitting said shell, and a perforated ring located in the cap, said tongues being adapted to enter openings in said ring when the shell and cap are put together.

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,

A. J. WATERHOUSE.