G. W. GOODRIDGE.

INCANDESCENT ELECTRIC LAMP SOCKET.

APPLICATION FILED JULY 31, 1907.

907,782. Patented Dec. 29, 1908.

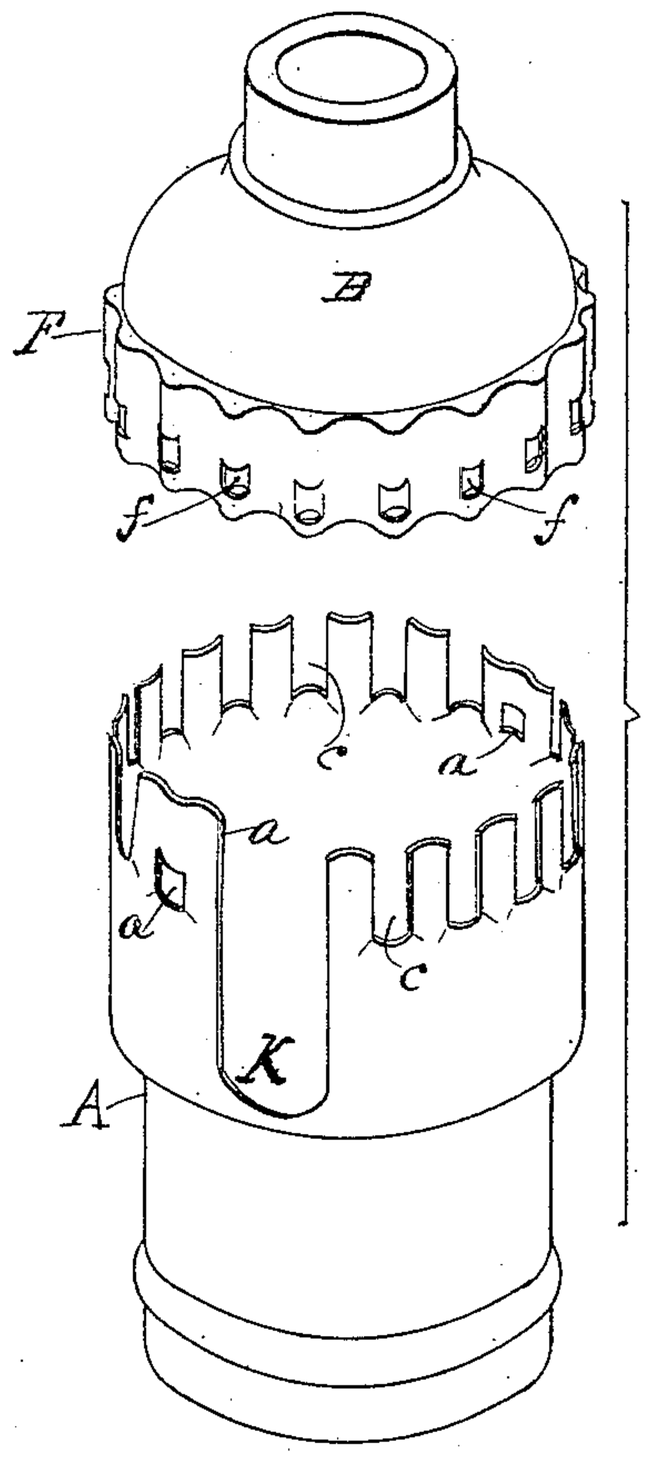

Fig. 1.

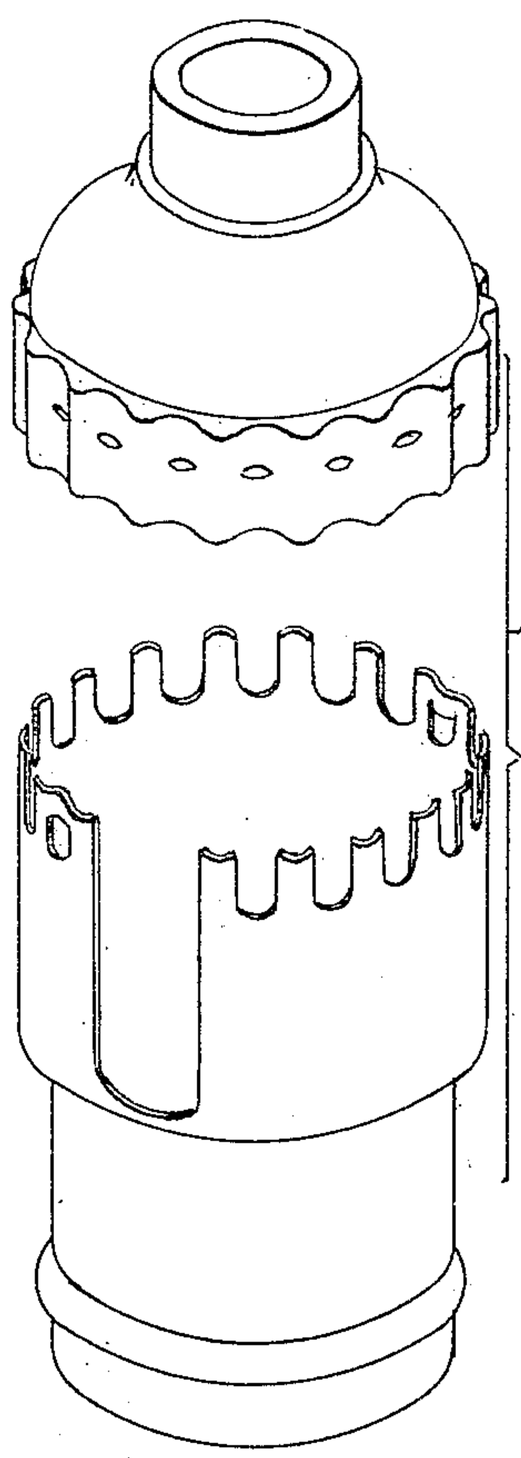

Fig. 6

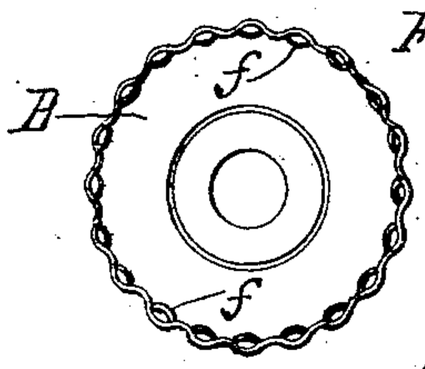

Fig. 4.

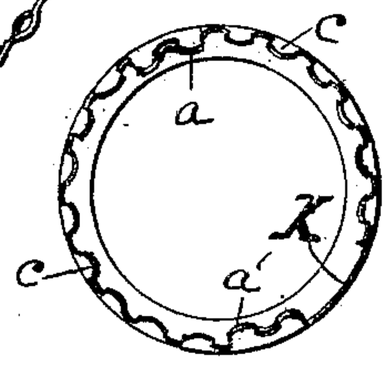

Fig. 5.

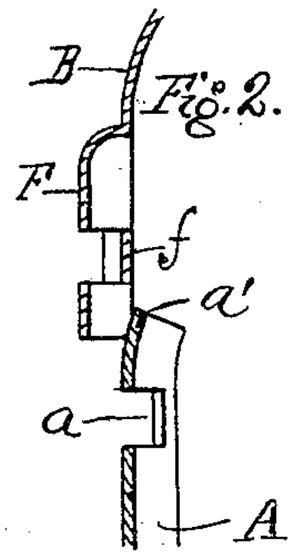

Fig. 2.

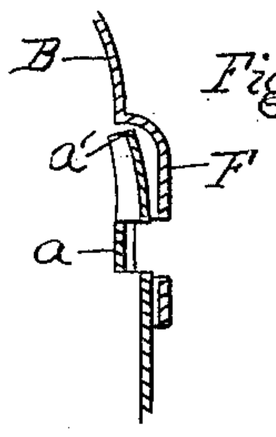

Fig. 3.

WITNESSES

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

INCANDESCENT-ELECTRIC-LAMP SOCKET.

No. 907,782. Specification of Letters Patent. Patented Dec. 29, 1908.

Application filed July 31, 1907. Serial No. 386,333.

To all whom it may concern:

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

My invention consists of an improvement in that class of incandescent electric lamp sockets, in which means are provided for permitting the shell to be fitted into the metal cap in any desired position rotarily.

In my application for patent filed July 20, 1907, Serial No. 384,732, I have described a construction of lamp socket, in which the shell can be fitted to the cap in almost any position rotarily, and that is accomplished by many times repeating the latching element symmetrically around the circumference of one of the telescoping parts and preferably also by corrugating that part longitudinally of the axis of the socket and also corrugating the other part accordingly.

In the accompanying drawings Figure 1 is a perspective view of a socket shell and cap detached, embodying my invention; Fig. 2 is a sectional view of one side of the socket, showing the manner of latching the two parts; Fig. 3 is a similar view of the diametrically opposite side of the socket, but showing the two parts latched; Fig. 4 is an inner face view of the cap; Fig. 5 is an end view of the shell; and Fig. 6 is a perspective view of a modification.

A is the shell with the key or other slot K, and B is the cap, the flange F of which is corrugated longitudinally of the axis of the socket. The number of such corrugations may be twenty for a socket of standard size. On this flange I form a series of inward projections *f*, equal in number to the corrugations, and in Figs. 1 to 5, I have shown these projections as punched inwardly from the outwardly projecting parts of the corrugations. These projections form the many times repeated latching elements on the cap.

The end of the shell which telescopes within the flange of the cap is corrugated to correspond, and the outwardly projecting parts of two of these corrugations are provided with openings *a*, with which any two corresponding projections *f* on the cap may latch. The corrugations thus provided with openings *a* are preferably diametrically opposite each other and one of them is adjacent to the slot *k*. The end of the corrugation above or beyond each opening *a* is beveled as at a^1, Figs. 1 and 2, for the more ready insertion of the shell within the cap. All the other corrugations in the shell, except these two having the openings *a*, are notched or cut away, open to the end of the shell as at *c*, Fig. 1, so that the cap will be latched only at the desired points, but may be latched in any desired position rotarily.

The latching projections on the cap and the latching openings in the shell with the intermediate notches may be formed at the depressed parts of the corrugations, as indicated in Fig. 6, instead of at the outwardly projecting parts. In this case, the latching projections on the flange of the cap are formed by cutting single horizontal slits in the flange and pressing the metal below the slits inwardly to form on the inner face beveled latches so that two of these latches may engage the openings *a* in the shell.

I claim as my invention—

1. An incandescent lamp socket having a cap with projections on the flange many times repeated symmetrically around the circumference of the cap in combination with a shell having openings and open notches also symmetrically arranged around its circumference, some of the projections on the cap latching with said openings and the other projections entering the notches.

2. An incandescent lamp socket, having a cap with corrugated flange and projections thereon many times symmetrically repeated around the circumference of the cap, in combination with a shell with corrugated end having openings at some of the corrugations and open notches at the others to coöperate with the projections on the cap.

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.