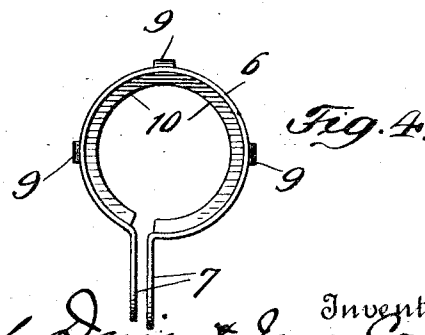
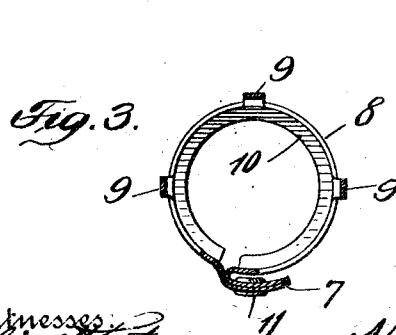
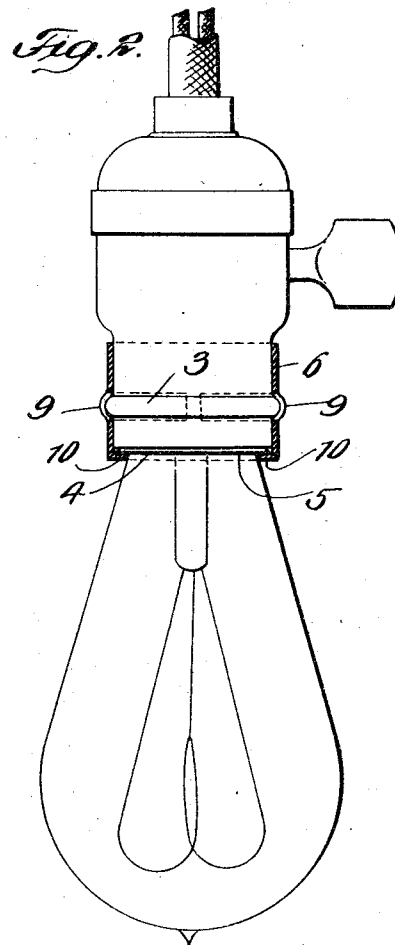
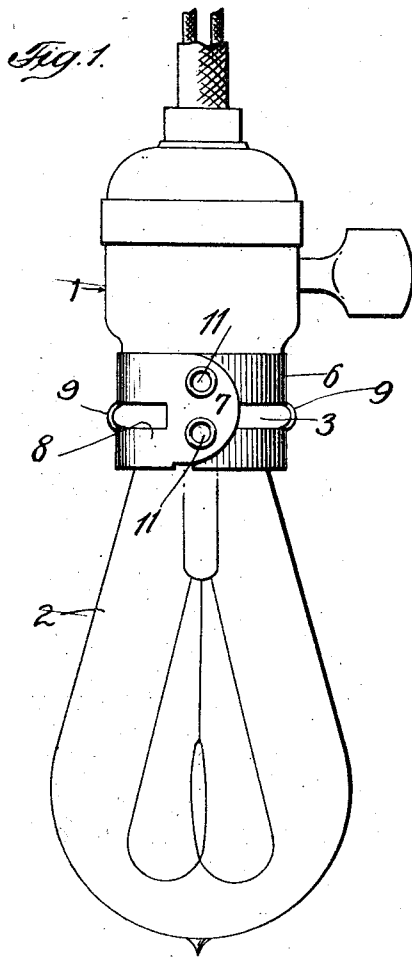


H. DAVIES & J. COOKE.
 INCANDESCENT LAMP LOCK AND SEAL.
 APPLICATION FILED JULY 9, 1912.

1,062,228.

Patented May 20, 1913.



Witnesses:
Julius Miller
 J. R. Miller.

Inventors:
 Hugh Davies & James Cooke
 By *Wm. H. Miller*
 David Davis

UNITED STATES PATENT OFFICE.

HUGH DAVIES AND JAMES COOKE, OF WEST NEW YORK, NEW JERSEY.

INCANDESCENT-LAMP LOCK AND SEAL.

1,062,228.

Specification of Letters Patent.

Patented May 20, 1913.

Application filed July 9, 1912. Serial No. 708,461.

To all whom it may concern:

Be it known that we, HUGH DAVIES and JAMES COOKE, citizens of the United States, and residents of West New York, county of Hudson, and State of New Jersey, have invented certain new and useful Improvements in Incandescent-Lamp Locks and Seals, of which the following is a specification.

In hotels lighted by electricity and in large office buildings similarly lighted, considerable loss results from the theft of incandescent lamp bulbs and particularly of that class of bulbs fitted with tungsten and like expensive filaments. In hotels it frequently occurs that the guests remove the lamp bulbs from the sockets and connect chafing dishes and other electric cooking utensils and electrically heated irons to the light circuit. This frequently results in over-loading the circuit and the consequent burning out of the fuses. Where the fuses are not destroyed there is an excessive consumption of current which is a direct loss to the hotel.

It is the main object of this invention to provide a simple means for locking the incandescent bulb to the socket in such manner that it cannot be removed without the removal of the lock and seal.

Another object of the invention is to provide a simple locking and sealing device which may be readily applied to the lamp sockets now in use and which when in position will permit the lamp to be rotated to a certain extent within its socket so that the lamp bulb is not rigidly bound or locked.

Another object of the invention is to provide a very simple lock and seal which may readily be placed in position on a lamp socket, and to provide means whereby said lock may be removed and the lamp thereby released without destroying the locking device so that it may be used again.

There are other objects and advantages of the invention which will appear hereinafter.

In the drawing Figure 1 is an elevation of an incandescent lamp bulb and socket with the locking and sealing device in position; Fig. 2 a similar view showing the locking and sealing device in sectional view; Fig. 3 a horizontal sectional view of the locking and sealing device removed from

the lamp socket; and Fig. 4 an end view of the locking and sealing device.

Referring to the various parts by numerals, 1 designates the lamp socket; 2 the incandescent lamp bulb carried thereby and 3 an annular bead formed on the lamp socket. This bead is present in practically all of the commercial sockets now in use. The lamp bulb and the socket may, of course, be of any desired construction.

The lamp is provided with the usual threaded metal plug 4 which is adapted to screw into the socket, said plug being slightly larger in diameter than the lamp at the point where the lamp end enters the plug. This forms a shoulder 5, as shown clearly in Fig. 2 of the drawing.

The lock and seal consists of a split annular band 6 which is adapted to encircle the end of the lamp socket, the two ends of said band projecting outwardly to form the arms 7. This band is made of tough, readily bendable, non-resilient material, preferably metal. This locking band, as shown in the drawing is formed with an annular slot 8 substantially midway between the longitudinal edges thereof, and extending across this slot are transverse outwardly curved bridge pieces 9. The bead 3 fits within the slot 8 when the lock is in position and the bridge pieces 9 curve outwardly around said bead, as shown clearly in the drawing. It is manifest that the bridge pieces may be as broad as desired and that the slot may be dispensed with if desired. In this latter case the locking band will be formed with a groove in its inner surface to receive the bead 3 of the lamp socket. The locking band is provided along one of its longitudinal edges with an inwardly extending locking flange 10 which is adapted to fit under the shoulder 5 formed by the lamp plug when the locking band is bent around a lamp socket containing a lamp bulb. The ends of the locking band extend outwardly and are preferably brought together and rigidly secured in position by means of tubular rivets 11. These rivets are preferably of comparatively soft metal so that they may be readily placed in position by a hand tool to securely fasten the locking band in position. After the rivets 11 are placed in position the two ends 7 of said strip are bent inwardly to the

main body of the locking band, as shown clearly in Figs. 1 and 3 of the drawing.

It is manifest that by placing the locking band around the lamp socket with the locking flange 10 under the shoulder 5, the bead 3 projecting into the slot 8 and then riveting together the two ends 7 of the locking band, the lamp bulb is securely locked in position and it will be impossible to detach said lamp from said socket without first removing the locking band. It is also manifest that the lamp may be turned slightly in the lamp socket after the clamping ring is in position thereon. This is important for the reason that if the lamp is rigidly locked against all movement it is likely to be broken by persons endeavoring to detach it. If, however, the lamp turns readily for a limited distance and then becomes rigidly locked they are warned that the lamp is not secured in position in the ordinary manner and no attempt will be made to force the screw plug outwardly through the clamping and sealing device.

We preferably form the tubular rivets of soft metal so that they may be readily removed with a proper tool. They will securely hold the two ends of the locking band together under ordinary conditions and will prevent the detachment of the locking band, unless some special tool is employed to remove the fastening rivets.

It will, of course, be understood that any suitable form of fastening device may be employed and we do not wish to be limited in this respect. It is also manifest that other changes and modifications may be made in the structure within the scope of the invention.

It will, of course, be understood that the removable tubular rivets merely exemplify one form of removable fastening means which may be employed in this device. Any suitable form of removable or breakable fastening devices may be employed, and we, of course, do not wish to be limited in this respect.

What we claim is:

1. The combination of a lamp socket having an annular bead near its open end, a lamp bulb provided with a screw plug adapted to fit said lamp socket, a sealing and locking band adapted to embrace the lamp socket and to receive the bead of said socket, a locking flange on said band adapted to engage the plug on the lamp bulb to prevent its withdrawal from the lamp socket, the ends of said band extending outwardly and being formed of readily bendable, non-resilient material and adapted to be bent back upon themselves to bring them close to the side of the body of the band, and readily removable means for rigidly connecting together the ends of the band.

2. The combination of a lamp socket hav-

ing an annular bead near its open end, a lamp bulb provided with a screw plug adapted to fit said lamp socket, a sealing and locking band adapted to embrace the lamp socket and to receive the bead of said socket, a locking flange on said band adapted to engage the plug on the lamp bulb to prevent its withdrawal from the lamp socket, the ends of said band extending outwardly and being formed of readily bendable, non-resilient material and adapted to be bent back upon themselves to bring them close to the side of the body of the band, and readily removable, soft metal fastening means for rigidly connecting together the ends of the band.

3. The combination of a lamp socket having an annular bead near its open end, a lamp bulb provided with a screw plug adapted to fit said lamp socket, a sealing and locking band adapted to embrace the lamp socket and to receive the bead of said socket, a locking flange on said band adapted to engage the plug on the lamp bulb to prevent its withdrawal from the lamp socket, the ends of said band extending outwardly and being formed of readily bendable, non-resilient material and adapted to be bent back upon themselves to bring them close to the body of the band, and a soft metal cylinder for rigidly connecting together the ends of the band.

4. A lamp lock and seal consisting of a single piece of metal bent to form an annular band and provided with an annular internal groove adapted to receive a bead of a lamp socket, and an annular inwardly extending flange adapted to engage the screw plug of a lamp to lock the lamp to the socket and formed with outwardly extending bendable ends which may be bent back to bring them close to the side of the body of the lock, and means for riveting the bendable ends together to contract the band and permanently secure the lock in position.

5. A lamp lock and seal comprising an annular band adapted to encircle the lower end of a lamp socket and provided with means to receive an annular external bead on said socket, said band being also provided with an inwardly extending flange adapted to engage the screw plug of a lamp to lock the lamp to the socket, and formed with outwardly extending readily bendable ends and soft metal rivets for rigidly securing the ends together to permanently secure the locking band to the socket, the rivets being adapted to be bent transversely to cause them to lie close to the side of the body of the band.

6. A lamp lock and seal consisting of a single piece of metal bent to form an annular band provided with an annular internal groove adapted to receive the external bead of a lamp socket, an annular, inwardly ex-

tending flange adapted to engage the threaded plug of the lamp to lock the lamp to the socket, the ends of the band extending outwardly from the body of the band and
5 means for permanently securing together the outwardly extending ends of the band to permanently lock it in position on the lamp socket.

In testimony whereof we hereunto affix our signatures in the presence of two witnesses this 8th day of July 1912.

HUGH DAVIES.
JAMES COOKE.

Witnesses:

LILLIAN MCGUIRE,
F. R. MILLER.