

L. DAVIS.
 INCANDESCENT LAMP LOCK.
 APPLICATION FILED JULY 31, 1909.

Patented Apr. 26, 1910.

956,047.

Fig. I.

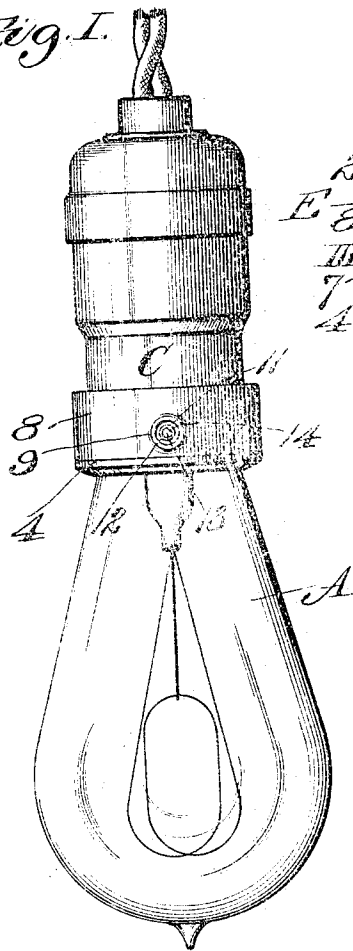


Fig. II.

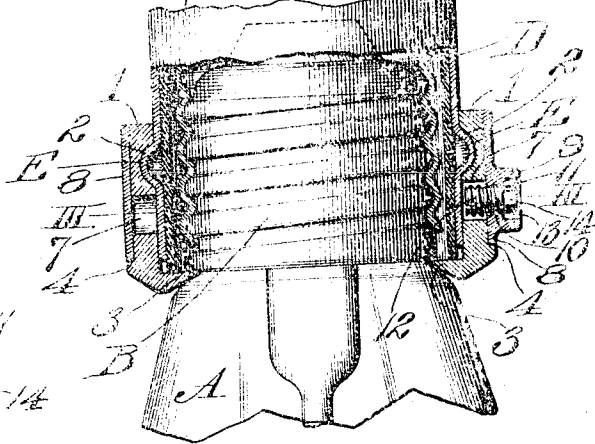


Fig. III.

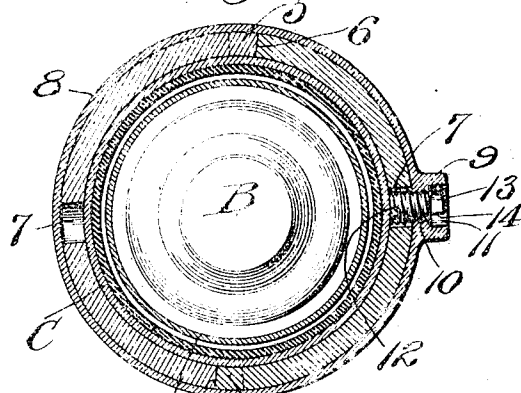


Fig. IV.

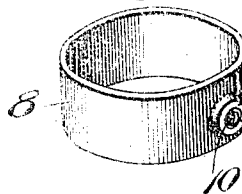


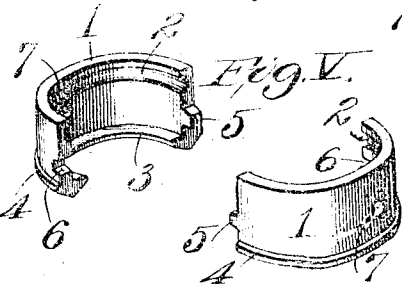
Fig. VI.



Fig. VII.



Fig. V.



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UNITED STATES PATENT OFFICE.

LEVI DAVIS, OF ALTON, ILLINOIS.

INCANDESCENT-LAMP LOCK.

956,047.

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To all whom it may concern:

Be it known that I, LEVI DAVIS, a citizen of the United States of America, residing in Alton, county of Madison, and State of Illinois, have invented certain new and useful Improvements in Incandescent-Lamp Locks, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a device for locking incandescent lamps in their sockets to prevent theft of the lamp bulbs, the present invention having in view the construction of a simple device of this description that may be readily applied to the socket of an ordinary incandescent lamp in its original position, thereby avoiding the necessity of deviating from the ordinary construction of the sockets, or preparing the sockets for a lock in some manner as is necessary in order that devices of the nature of my improvement may be put into service.

Figure I is an elevation of an incandescent electric lamp with my lock applied thereto. Fig. II is an enlarged view, in part a longitudinal section through the incandescent lamp socket and my lock, and in part an elevation of the neck of a lamp bulb seated in the socket and held by the lock. Fig. III is a cross section taken on line III—III, Fig. II, the end of the lamp bulb neck being shown in full lines. Fig. IV is a perspective view of the band of my lock. Fig. V is a perspective view of my sectional locking ring with the sections separated from each other. Fig. VI is an end view of a key for use in connection with my lock. Fig. VII is in part an elevation and in part a longitudinal section of the key shown in Fig. VI.

In the accompanying drawings: A designates a lamp bulb having the usual screw threaded neck B.

C is the socket that receives the neck of the lamp bulb, and is provided with an internal screw threaded member D with which said lamp bulb neck engages. The socket C is provided with the usual external bead E that encircles it.

1 designates the sections of a sectional locking ring that are adapted to be fitted around the socket D and be held assembled by means to be hereinafter more fully referred to. Each of the sections 1 is provided intermediate of its ends with a groove

2 into which the outwardly extending bead E of the lamp socket enters, as seen in Fig. II. At the lower end of each section 1 is an inwardly extending flange 3 preferably wedge shape in cross section, and which is adapted to extend across the lower edge of the lamp socket so that the said flanges 3 of the two sections will engage the neck B of the lamp bulb A when said neck is in position in the lamp socket. At the lower end of each section 1, at its exterior, is a shoulder 4 having utility to be hereinafter made clear. The two ring sections 1 are provided at their abutting edges with bosses 5 and notches 6, the bosses being adapted to enter into the notches for the purpose of preventing endwise movement of either section independently of the other section. In each ring section is an aperture 7.

8 designates a keeper band that encircles the ring sections 1 to hold them from separation, and which is provided with an outwardly extending boss 9 containing a screw threaded aperture 10 and having a recessed seat 11.

12 is a locking screw mounted in the screw threaded aperture 10 in the keeper band, and having at its outer end a head 13 that is in the main of cylindrical shape, but has a flattened side 14.

In applying my lock to an incandescent lamp, the two mating ring sections 1 are assembled around the lamp socket after the neck of the lamp has been introduced into the socket and so fitted to the socket that the bead E of said socket will occupy the groove 2 in the ring section. In thus fitting the ring sections to the socket their inwardly extending flanges 3 are positioned immediately beneath the lower end of the neck bead of the lamp bulb, as seen in Fig. II, so that they will engage said neck. The keeper band 8 is then slipped on to the assembled locking ring sections, it being understood that the band was present around the socket above the point at which the locking ring sections were applied before the application of said sections, and said band is moved downwardly until its lower end rests upon the external shoulders 4 of the locking ring sections which serve to prevent further downward movement of the band. In fitting the keeper band around the locking ring sections, it is so positioned as to cause the aperture 10 therein to be in registration with the aperture 7 in one of the ring sections,

in order that the locking screw 12 may then turn so that it is moved inwardly through the aperture in the keeper band, and into the registering aperture in the adjacent locking ring section, whereby the keeper band is connected to the locking ring sections to hold them assembled, in order that they may perform their office of retaining the neck of the lamp bulb in the lamp socket. It is with the object in view of making it difficult for any one to withdraw the locking screw 12 and thus be enabled to remove the keeper band that I make the head of said locking screw mainly of circular shape and provide only a slight flattened portion 14 thereon to permit of the manipulation of the screw by a specially formed key 15. This key has a hollow shank 16 that is mainly of cylindrical shape, but is flattened at the point 17 in order that it will fit the flattened portion 14 of the head of the locking screw. The head of the locking screw occupies a position within the recess in the boss 9 of the keeper band when the screw is in its innermost position, and consequently the head of the screw is protected within said boss when my device is in service, and as a consequence, it is difficult for any one desiring to manipulate the screw for the purpose of removing the lamp lock, to do so without the employment of the specially made key intended for that service.

I claim:

1. The combination with an incandescent electric lamp socket and a bulb seated therein, of a locking ring embracing said socket and engaging said bulb, and a keeper band surrounding said locking ring.
2. The combination with an incandescent electric lamp socket and a bulb seated therein, of a locking ring embracing said socket and engaging said bulb, a keeper band surrounding said locking ring, and a locking member whereby said keeper band and locking ring are united.
3. The combination with an incandescent electric lamp socket and a bulb seated therein, of a locking ring embracing said socket and engaging said bulb, a keeper band surrounding said locking ring, and a locking member movable in said band into said locking ring whereby said parts are connected.
4. The combination with an incandescent

electric lamp socket and a bulb seated therein, of a locking ring embracing said socket and engaging said bulb, a keeper band surrounding said locking ring, and a locking screw mounted in said band and movable into said locking ring to connect the band and locking ring.

5. The combination with an incandescent electric lamp socket and a bulb seated therein, of a locking ring embracing said socket and having a flange at one end for engagement with the neck of said bulb, and a keeper band surrounding said locking ring.

6. The combination with an incandescent electric lamp socket and a bulb seated therein, of a locking ring embracing said socket and having a flange at one end for engagement with the neck of said bulb, a keeper band surrounding said locking ring, and means movably mounted in said keeper band whereby the band may be connected to said locking ring.

7. The combination with an incandescent electric lamp socket and a bulb seated therein, of a ring embracing said socket and provided with means for engagement with the neck of the lamp bulb and with an external shoulder, and a keeper band surrounding said locking ring to limit the degree of movement of the band upon the ring.

8. The combination with an incandescent electric lamp socket having an external bead and a bulb seated in said socket, of a locking ring provided with an internal groove to receive the bead of said socket, and having an inwardly extending flange at one end to engage the neck of said bulb, and a keeper band surrounding said locking ring.

9. The combination with an incandescent electric lamp socket having an external bead and a bulb seated in said socket, of a locking ring provided with an internal groove to receive the bead of said socket, and having an inwardly extending flange at one end to engage the neck of said bulb, a keeper band surrounding said locking ring, and means movably mounted in said keeper band whereby said band and locking ring may be connected to each other.

LEVI DAVIS.

In the presence of—
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