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MEANS FOR LOCKING ELECTRIC LIGHT GLOBE ATTACHMENTS TO HOLDERS

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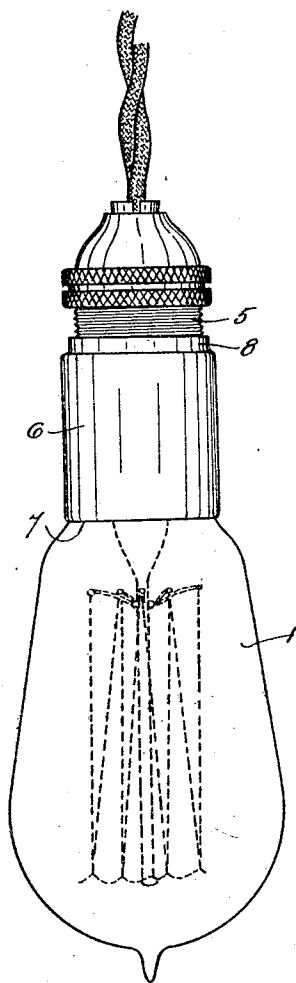


FIG. 1.

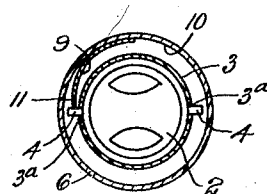


FIG. 2.

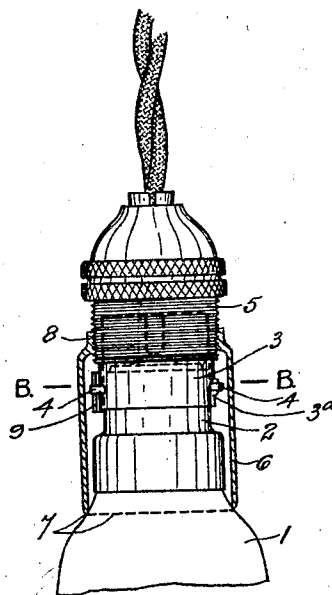


FIG. 3.

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## UNITED STATES PATENT OFFICE.

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MEANS FOR LOCKING ELECTRIC-LIGHT-GLOBE ATTACHMENTS TO HOLDERS.

Application filed September 14, 1922. Serial No. 588,263.

*To all whom it may concern:*

Be it known that ERIC WILLIAM HUTCHINGS, of Tahi Street, Miramar, Wellington, in the Dominion of New Zealand, citizen of the British Empire, has invented certain new and useful Improvements in Means for Locking Electric-Light-Globe Attachments to Holders, of which the following is a specification.

This invention relates to means for locking electric light globes and the like to lamp holders, bases or sockets and has for its object to provide means for preventing the removal of the globes from their holders unless the glass of the globe is broken.

This object is effected by the provision of means which prevent the globe from being turned and moved upwardly in the holder after being secured therein by the usual bayonet joint such as means co-operating with the usual locking pins which are on the metal cap of the globe, whereby the globe is prevented from being turned so as to permit of it being removed from the holder.

While the invention is applicable in all locations to the usual bayonet joint type of globe and holder it is particularly applicable to such holders when located in public places and where thieves have opportunities of using tools on the joint for some length of time without being observed. It is in these cases that the usual known type of locking means has little effectiveness.

The invention consists in the foregoing features and in the features and arrangements and combinations of parts hereinafter described and more particularly pointed out in the claims.

The preferred embodiment of the invention is illustrated in the accompanying drawings wherein Figure 1 is an elevation of the locking device in locking position securing an electric light globe to its holder, Figure 2 is a sectional plan through B—B in Figure 3 and Figure 3 is a part sectional elevation of the locking device shown in Figure 1. There is provided a collar 6 which is made of thin brass or other suitable material and which is provided with an internally threaded head 8 adapted to be screwed on to the externally threaded portion 5 of the lamp holder 3 which threaded portion 5 is usually also adapted to carry a shade carrier. The collar 6 is preferably

of sufficient diameter to embrace not quite closely the locking pins 4 on the holder 3 and is of such length as to have its lower end 7 screwed down on to the globe 1.

It will be seen that the whole of the bayonet joint is effectively protected by the collar 6 and there is no possibility of introducing a tool either at the bottom or the top of the collar 6 to interfere with the joint.

The collar 6 is provided preferably with means such as a spring tongue 9 secured at one end to the inner surface 10 of the collar 6. The other free end 11 of the tongue 9 normally projects within the collar 6. The tongue 9 is so positioned that when the collar 6 is being screwed down on to the globe 1 the tongue 9 yields and slides over the locking pins which are on the cap (2) of the globe 1 and the projecting end 11 of the tongue 9 co-operates with one of the locking pins 4 to prevent the collar 6 from being screwed upwards again. It will be seen that when the collar 6 has been screwed down on to the globe 1 into locking position, there is no possibility of it being removed and this makes the globe irremovable from its holder.

To remove the collar 6 it is necessary to break the globe 1 at its upper end so that the collar 6 may be screwed down off the lamp holder 3.

In the preferred mode of operation the threaded head 8 of the collar 6 is first of all screwed on to the threaded portion 5 of the holder 3 sufficiently far up to enable the locking pins 4 on the cap 2 of the globe 1 to be inserted into the usual slot (3<sup>a</sup>) of the holder 3.

The collar 6 is then screwed down until its bottom edge 7 rests closely against the globe 1 the tongue yielding and sliding over the locking pins 4. As soon as the collar is in position with its lower end 7 close against the globe 1 it is impossible to screw it upwards as one of the locking pins 4 bears against the end 11 of the tongue 9. The only possible way to remove the collar 6 is by breaking the globe.

I claim:—

1. In combination, a socket member provided with a fastening element, an electric light bulb having a cap member provided with a fastening element adapted to engage the fastening element of the socket member for connecting said members together, one

of said members being provided with an abutment element, a locking sleeve adjustably mounted on the socket member and having its lower edge engaging said bulb 5 for preventing any instrument from being inserted between the sleeve and the bulb, and a resilient locking element secured to said sleeve and engageable with said abutment element for preventing disengagement 10 of the fastening elements from one another until said bulb is broken away from the cap member.

2. A device for locking an electric lamp to its holder including threads arranged on 15 said holder and bayonet slots provided in the holder, pins on the cap of the lamp adapted to engage said slots, and a sleeve surrounding said holder and cap and having threads engaging the threads of the 20 holder, and locking means carried by said sleeve and adapted to engage said pins, said

sleeve being arranged to be screwed down onto the lamp without interference by said locking means, and said locking means being adapted to engage the pins and prevent 25 any movement of the sleeve when an attempt is made to screw the sleeve in an upward direction.

3. A device as claimed in claim 2 in which the locking means includes a spring tongue 30 secured at one end to the inner surface of the sleeve and being adapted to ride over the lamp pins when the sleeve is screwed down onto the lamp, and to engage one of 35 said pins when an attempt is made to screw the sleeve in an upward direction.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

ERIC WILLIAM HUTCHINGS.

Witnesses:

MATHEW JOHN PARKER,  
YVONNE HARDEY.