A. C. RECKER.

LOCK NUT.

APPLICATION FILED MAY 12, 1916.

1,210,532. Patented Jan. 2, 1917.

Fig. 1.

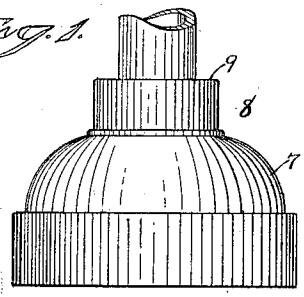


Fig. 2.

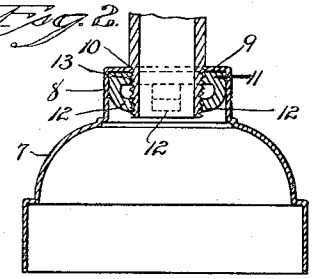


Fig. 3.

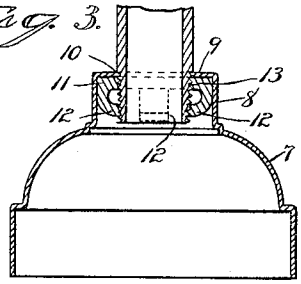


Fig. 4.

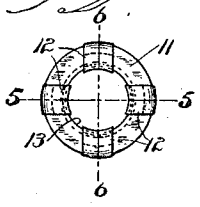


Fig. 5.

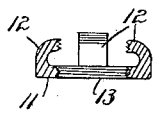
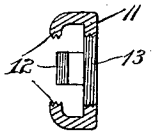


Fig. 6.



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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

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LOCK-NUT.

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To all whom it may concern:

Be it known that I, ADOLPH C. RECKER, a citizen of the United States, residing at Oakville, in the county of Litchfield and State of Connecticut, have invented a new and useful Improvement in Lock-Nuts; and I do hereby declare the following, when taken in connection with the accompanying drawings and the characters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this application and represent, in—

Figure 1 a side view of a cap for incandescent-lamp sockets constructed in accordance with my invention. Fig. 2 a vertical sectional view of the same as applied to the end of a nipple, the arms of the bushing being of uniform length. Fig. 3 a similar view with the arms differentiated in length. Fig. 4 a plan view of the bushing of Figs. 1 and 2, detached. Fig. 5 a sectional view on the line 5—5 of Fig. 4. Fig. 6 a sectional view on the line 6—6 of Fig. 4.

My invention relates to an improvement in caps for incandescent electric lamp sockets, the object being to provide simple and convenient means for fastening such socket-caps to nipples, without the use of the set-screw ordinarily employed for the purpose.

With these ends in view, my invention consists in a socket-cap having certain details of construction as will be hereinafter described and pointed out in the claim.

In carrying out my invention as herein shown, I first produce a circular, wrought-metal bushing 11 having a plurality of arms 12 arranged in opposition to each other and bent inwardly at a right angle to the plane of the bushing, and then inwardly into the plane thereof, so that the ends of the arms will face each other. The bushing is then tapped as at 13 and at the same time the ends of the arms are tapped. In this manner the threads in the opening 13 and the threads in the ends of the arms are given exactly the same lead or pitch. One or more of the arms 12 are now deflected so as to carry its threads or their threads, if more than one of the arms are so deflected, out of line with the threads in the opening 13. The bushing 11 when so made, is secured against rotation in any suitable manner, within a cylindrical neck 8 formed at the outer end of the usual domical socket-cap 7, the outer portion of the said neck being turned inward at a right angle to form a flange 9 having a circular central opening 10 which receives the threaded nipple 14. Now when the said cap is screwed upon the nipple, it is locked, as it were, in place thereupon by the thrusts produced by having the threads in one or more of the arms 12 set out of line with the threads of the opening 13. The bushing thus becomes self-locking and the use of the set-screw commonly employed for securing the cap to the nipple is dispensed with.

As shown in Figs. 3, 5 and 6, two of the arms 12 are made longer than the other two arms so as to increase the virtual length of the bearing of the bushing upon the nipple. In this modified form of the bushing, one or more of the arms must also be sufficiently bent to throw the lead of its, or their threads, out of line with the lead of the threads in the opening 13 in the face of the nut so as to secure the binding effect already described. Since the arms 12 are separated from each other, they may be deflected, as described, without disturbing the position of the arms not so deflected.

I claim:—

As a new article of manufacture, a wrought-metal self-locking bushing for the caps of incandescent-lamp sockets, the said bushing being formed in its face with a centrally threaded opening and being also formed with a plurality of integral arms separated from each other and having their ends bent inward at a right angle to the plane of the face of the bushing and then inward toward the plane thereof, the central opening in the face of the bushing and the ends of its arms being threaded with threads of the same lead, and one or more of the arms being deflected to carry its or their threads out of line with the threads of the said opening, whereby when the bushing is applied to a nipple, the thrusts produced by the disalinement of the threads will cause the bushing to bind and fasten itself in place.

ADOLPH C. RECKER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."