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DEVICE FOR ATTACHING OR DETACHING ELECTRIC LAMPS.

Application filed December 27, 1897. Serial No. 663,488. (No model.)

To all whom it may concern:

Be it known that I, DAVID H. ARTHUR, of the city and county of Philadelphia, in the State of Pennsylvania, have invented certain new and useful Improvements in Devices for Attaching or Detaching Electric Lamps, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

This invention relates to that class of devices whereby incandescent electric lamps may be readily applied to and removed from sockets or holders located on ceilings or other elevated positions; and it has for its object to provide a simple and efficient clamping and releasing mechanism whereby the neck of the lamp may be firmly and securely grasped and screwed onto or unscrewed from its socket irrespective of the angle or position of the socket in the ceiling or other elevated support, all as will be hereinafter particularly described and claimed.

In the drawings, Figure 1 is a side elevation of the device as in use. Fig. 2 is a vertical section thereof.

A A’ represent two jaws pivoted together, as at a, and curved substantially as shown, so as to embrace or straddle the lamp-globe and grasp the neck thereof by their inwardly-extending free ends a’. These ends are socketed for the reception of rubber c or other soft substance. One of the jaws is provided with a depending shank d, and the other with a laterally-extending arm b, the outer portion of which is bent upwardly and slotted for the passage of a rod b’, that is pivoted to the arm A’, at b’. Encircling this rod is a spring b’, which, bearing oppositely against a loose washer b and a shoulder b on the rod, tends to maintain jaw A’ normally closed, while when the depending end of the rod is drawn downward the jaw is swung open in opposition to the spring. The shank is connected by means of a universal connection C with the upper end of a pole D, whereby the jaws may be set to any desired angle in respect to the pole. On the shank and pole adjacent to the connection are loosely fitted sleeves d d’, respectively, which are provided with side bars d’, that are connected with the pivot of the universal joint. These sleeves are provided with overlapping segments d”, one of which is slotted for the passage of a set-screw d’ in the other, whereby the jaws when swung laterally upon the joint may be fixed in the desired angle or position of adjustment.

On the pole immediately below the universal joint is a sliding sleeve E, with which the rod b’ is connected by a cord e or the like. Near the lower end of the pole is a similar sleeve E’, which is connected with the upper sleeve by means of a central rod or cord e’ within the pole, whereby when the lower sleeve is drawn down or is released the upper sleeve is similarly moved, so as to open the jaws or permit the closing thereof. The lower sleeve is preferably slotted for the passage of a spring-catch e’ on the pole, whereby the sleeve may be temporarily held in the down position to maintain the jaws open.

By the construction above described it will be seen that the jaws may be set to any desired angle to grasp the neck of the lamp for the purpose of screwing the same onto or unscrewing it from its socket, the screwing or unscrewing being effected by properly turning the pole. It will also be seen that the jaws do not grasp the body of the globe and that therefore there is no danger of crushing the latter.

I claim—

1. The combination with a pole provided with a universal-joint connection, and means for securing the same in positions of adjustment, of a pair of hinged jaws curved and provided with inwardly-extending free ends adapted to clasp the neck of an electric lamp, the curvature of the jaws being such that they are entirely out of contact with the lamp-globe, means whereby said jaws are automatically closed, and means for opening said jaws.

2. The combination with a pole, of two hinged jaws one of which is provided with a shank which is secured to said pole while the other is provided with a pivoted rod b’, the arm b on said shank, the spring on said rod, and operating means connected with said rod.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

DAVID H. ARTHUR.

Witnesses:

ANDREW V. GROUPE,
JOHN R. NOLAN.