L. R. HOPTON.

ELECTRIC LIGHTING FIXTURE.

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Fig. 1,

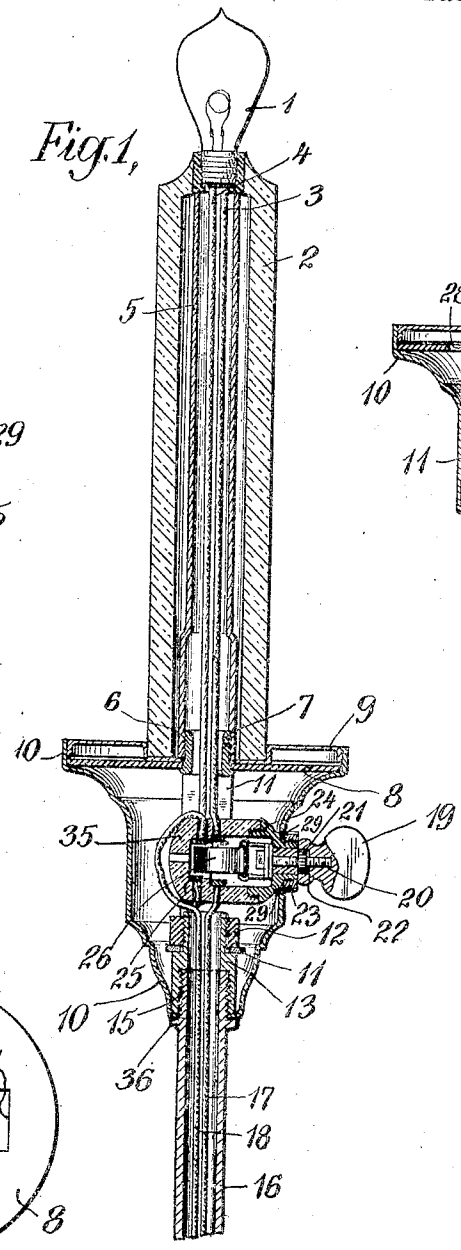

Fig. 2,

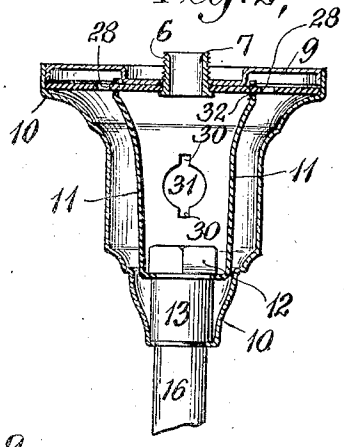

Fig. 3,

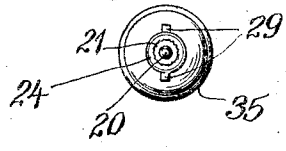

Fig. 4,

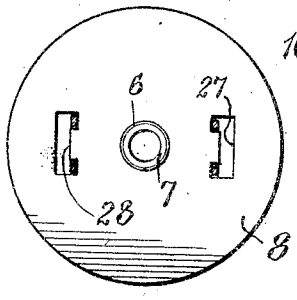

Fig. 5,

WITNESSES

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ELECTRIC-LIGHTING FIXTURE.

978,163. Specification of Letters Patent. Patented Dec. 13, 1910.

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To all whom it may concern:

Be it known that I, LEMUEL R. HOPTON, a citizen of the United States, and resident of Plainfield, Union county, New Jersey, have made certain new and useful Inventions Relating to Electric-Lighting Fixtures, of which the following is a specification, taken in connection with the accompanying drawing, which forms part of the same.

This invention relates to electric lighting fixtures and relates especially to electric candle fixtures in which the candle tube is more readily secured in position with respect to the fixture arm and candle cup by the use of a retainer which may be secured to the fixture arm, and releasably hold the support for the candle tube.

In the accompanying drawings, showing in a somewhat diagrammatic way an illustrative embodiment of this invention, Figure 1 is a vertical section, Fig. 2 is a partial vertical section taken at right angles, Fig. 3 is a detail view of the switch, Fig. 4 is a plan view showing the support and connected parts, and Fig. 5 is a detail view of the retainer.

In the illustrative embodiment of the invention shown in the drawings, fixture arm 16 may be provided with a suitable flange or collar such as 36 adjacent its threaded upper end. The sheet metal candle cup 10 may be secured to the fixture arm by a suitable sleeve 13 which may be screwed upon the arm so as to tightly hold the cup against the sleeve. The upper end of this sleeve may be provided with a reduced threaded portion with which a suitable nut 12 may coöperate so as to firmly hold in position the resilient retainer which may be in the form of a yoke 11, provided with a suitable notch 32 at the upper end of each of the yoke arms. This retainer may disengageably coöperate with the support 8 in any desired way so as to firmly hold this removable support in position in the candle cup in which it is laterally alined by the cup flange 10. This may be accomplished by forming the support with the apertures 27 into which the tongues or projections 28 project sufficiently to engage the notches in the retainer arms. When the support is forced down into the position indicated in Fig. 2, these retainer arms snap inward to engage the tongues on the support 8 and firmly support the same directly from the fixture arm and also from the candle cup secured thereto without the necessity of any soldered or threaded connection with the candle cup. By forcing the retainer arms outward the support may of course be readily disengaged and removed from the cup.

The support may as indicated, be provided with the bushing 7 having the thread 6 formed thereon so as to be engaged by a coöperating thread on the candle tube 5. As indicated, the cover plate 9 may be put in place above the support and firmly held in position by screwing the candle tube down upon it. Any desired arrangement of candle fixture may be used in connection with the candle tube and cup as for instance, the glass candle 2 may be supported in the central depression in the cover plate and the socket 41 may be mounted at the upper end of the candle tube so as to properly support the lamp 1. The wires 3, 4 operating the lamp may, as indicated, extend down through the candle tube and be controlled by any desired switch device mounted in the candle cup between the straddling arms of the retainer. This switch may, as indicated, comprise a casing 35 of suitable insulating material in which suitable electric contacts such as 25 are mounted and connected with the lamp wires 3, 4 and the supply wires 17, 18. The contact springs 26 coöperating with these contacts 25 may be mounted in any desired way on the switch stem 20 so as to be operated by the connected switch key 19 having the internal set nut 21. The switch may, as indicated, be provided with the metallic head 24 secured to the casing and having a threaded neck projecting through the switch aperture 31 in the candle cup. Suitable lugs 29 may be formed on this neck coöperating with the alining slots 30 in the candle cup so that the switch nut 23 firmly holds the parts in position.

Having described this invention in connection with an illustrative embodiment thereof, to the details of which, the invention is not of course to be limited, what is claimed as new and what is desired to be secured by Letters Patent is set forth in the appended claims.

1. The electric candle fixture, comprising a fixture arm having a collar and adjacent threaded end, a candle cup coöperating with said collar and having a cup flange at its

upper portion, a sleeve engaging the thread on said fixture arm and clamping said candle cup against the collar thereon, a resilient retainer yoke secured to said sleeve and provided with notches in the ends of its arms, a support within said cup flange and provided with apertures having tongues projecting into said apertures to cooperate with said notches and be thereby firmly held in position by said retainer, a threaded bushing in said support, a cover plate above said support and within said cup flange, a candle tube engaging said bushing and holding said cover plate in position and a switch extending between the arms of said retainer yoke.

2. The electric candle fixture, comprising a fixture arm having a threaded end, a candle cup having a cup flange adjacent its upper portion, a sleeve engaging the threaded end of said fixture arm and holding said candle cup thereto, a resilient retainer yoke secured to said sleeve, a support within said cup flange and engaged and held in position by said retainer, a candle tube having a threaded engagement with said support and a switch secured to said candle cup and extending within said retainer yoke.

3. The electric candle fixture, comprising a fixture arm, a candle cup secured to said fixture arm, a resilient retainer yoke located within said candle cup and secured to said fixture arm, a support engaged by said retainer yoke and removably held in position with respect to said candle cup, a candle tube secured to said support and a switch extending within said retainer yoke.

4. The electric candle fixture, comprising a candle cup, a retainer yoke mounted within said candle cup, a support engaged by said retainer yoke, and firmly held in position with respect to said candle cup, a candle tube mounted on said support and a switch extending within said retainer yoke.

5. The lighting fixture, comprising a fixture arm, a cup secured to said fixture arm, a retainer located within said cup and secured to said fixture arm, a support engaged by said retainer and thereby held in position with respect to said cup and a switch located within said cup adjacent the end of said fixture arm.

6. The lighting fixture, comprising a fixture arm, a cup secured to said fixture arm, a resilient retainer yoke located within said cup and secured to said fixture arm, a support engaged by said retainer and thereby held in position with respect to said cup, a tube mounted on said support and a switch secured to said cup and extending within said yoke.

7. The lighting fixture comprising a cup, a resilient retainer yoke located within and secured to said cup, a support engaged by said retainer and thereby held in position with respect to said cup, a tube mounted on said support and a switch secured to said cup and extending within said yoke.

8. The lighting fixture comprising a cup, a resilient retainer member located within and secured to said cup, a support having locking engagement with said retainer and thereby held in position with respect to said cup and a tube mounted on said support.

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