

A. S. KNIGHT,
SUPPORT FOR INCANDESCENT LAMP FILAMENTS.
APPLICATION FILED AUG. 6, 1910. RENEWED SEPT. 13, 1912.

1,059,738.

Patented Apr. 22, 1913.

Fig. 1.

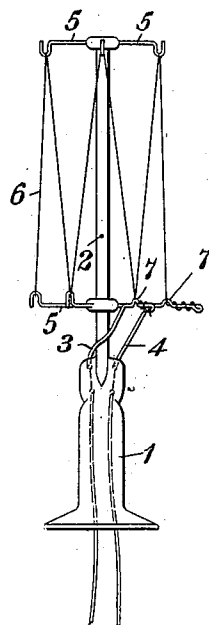


Fig. 3.

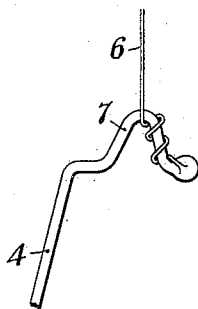
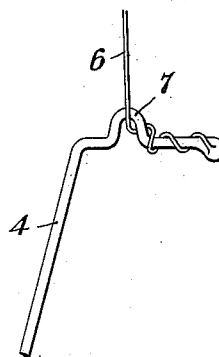


Fig. 2.



WITNESSES:

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SUPPORT FOR INCANDESCENT-LAMP FILAMENTS.

1,059,738.

Specification of Letters Patent.

Patented Apr. 22, 1913.

Application filed August 6, 1910, Serial No. 576,000. Renewed September 13, 1912. Serial No. 720,277.

To all whom it may concern:

Be it known that I, ARTHUR S. KNIGHT, a subject of the King of Great Britain, and a resident of Newark, in the county of Essex and State of New Jersey, have invented a new and useful Improvement in Supports for Incandescent-Lamp Filaments, of which the following is a specification.

My invention relates to supports for electric incandescent lamp filaments, and it has for its object to provide a support about which a filament may be wound or wrapped and upon which it cannot readily become displaced.

In the manufacture of electric incandescent lamps, the filaments thereof are frequently bent or wound about supports therefor, the extremities of the filaments being thereafter united to the supports. In constructing lamps in this manner, however, the filaments have heretofore sometimes become detached from the supports, or displaced thereon, by sliding longitudinally thereof, and, in order to prevent such detachment or displacement, and also in order to provide means for indicating when a sufficient portion of the filament has been wrapped or wound about the support, I provide the support with a notch or laterally bent portion at a suitable distance from the extremity thereof, the filament being wound into this notch or laterally bent portion.

Figure 1 of the accompanying drawing is a side view of the internal parts of a lamp constructed in accordance with the present invention, Fig. 2 is an enlarged view of a portion of the filament and one of its supports, and Fig. 3 is another form of support.

The lamp comprises a stem 1 having an arbor 2 and leading-in wires 3 and 4. The arbor 2 is provided with laterally projecting supports 5 around the hooked extremities of which a filament 6 is bent, the ends of the filament being wound or wrapped about the end portions of the leading-in wires 3 and 4. At a short distance from the extremities of the leading-in wires, they are provided with laterally bent portions 7, which form notches into which the ends of the filament are wound, and which indicate the portions of the leading-in wires about which the filament should be wrapped. The notches 7 also serve to prevent displacement of the end portions of the filament upon the leading-in wires during application of the

filament to its supports. The electrical connections between the extremities of the filament and the leading-in wires may be improved by fusing together or otherwise uniting the same.

In certain cases the laterally bent portion of the leading-in wire may preferably be large enough to receive the helical portion of the filament, as shown in Fig. 3, in order that the distance that the support projects laterally from the arbor may be reduced.

I claim as my invention:

1. An incandescent lamp comprising a filament, and a support therefor having an intermediate laterally bent portion, the filament embracing the support upon one side of the laterally bent portion thereof.

2. An incandescent lamp comprising a filament, and a support therefor having an intermediate laterally bent portion, the filament embracing the support between its extremity and laterally bent portion.

3. An incandescent lamp comprising a filament, and a support therefor having an intermediate laterally bent portion, the filament embracing the support upon one side of the laterally bent portion thereof and having its extremity united thereto.

4. An incandescent lamp comprising a filament and a support therefor having an intermediate notch, the filament embracing the support at one side of the notch therein.

5. An incandescent lamp comprising a filament and a support therefor having an intermediate notch, the filament embracing the support at one side of the notch therein and having its extremity united thereto.

6. An incandescent lamp comprising a filament and a support therefor having an intermediate notch, the filament embracing the support between its extremity and the notch therein.

7. An incandescent lamp comprising a filament support having an intermediate laterally bent portion, and a filament embracing the support upon one side of, and leading from the same at, the laterally bent portion.

8. An incandescent lamp comprising a filament and a support therefor having an intermediate laterally bent portion, the filament embracing the support between its extremity and the apex of the laterally bent portion.

9. An incandescent lamp comprising a

filament and a support therefor having an intermediate laterally bent portion, the filament embracing the support between its extremity and the apex of the laterally bent portion and having its extremity united to the support.

10. An incandescent lamp comprising a filament and a support therefor having an intermediate notch, the filament embracing the support between its extremity and the apex of the notch therein.

11. An incandescent lamp comprising a filament support having an intermediate laterally bent portion, and a filament embracing the support upon one side of, and leading from the same at, the laterally bent portion, the filament being also united to the support.

12. An incandescent lamp comprising a filament support having an intermediate notch; and a filament embracing the support upon one side of, and leading from the same at, the notch.

13. An incandescent lamp comprising a filament support having an intermediate notch, and a filament embracing the support upon one side of, and leading from the same at, the notch, the filament being also united to the support.

In testimony whereof, I have hereunto subscribed my name this 21 day of July, 1910.

ARTHUR S. KNIGHT.

Witnesses:

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