

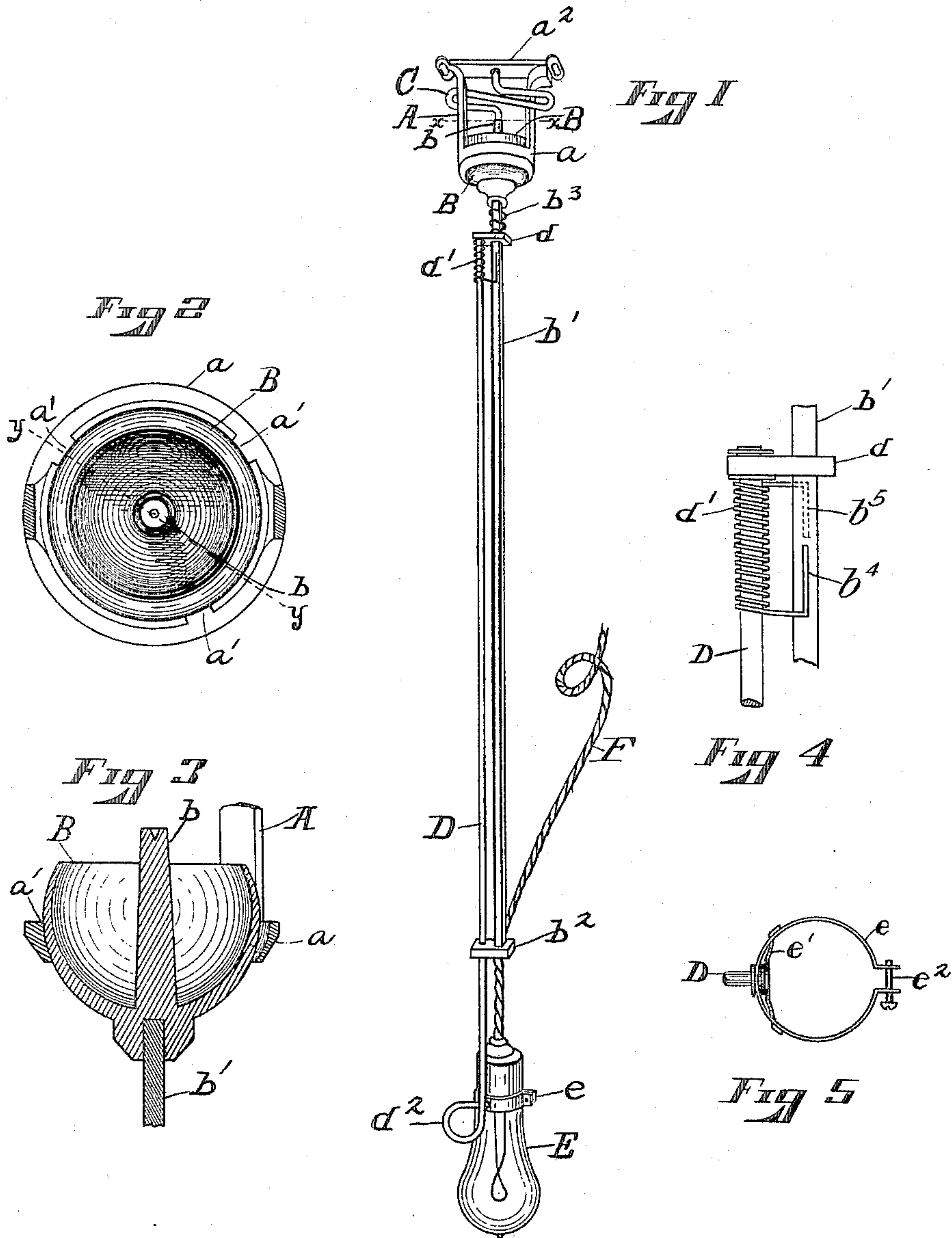
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Patented Jan. 2, 1900.

L. CANDA & H. R. BOTHWELL.
INCANDESCENT LAMP HOLDER.

(Application filed May 5, 1899.)

(No Model.)



WITNESSES

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UNITED STATES PATENT OFFICE.

LEO CANDA AND HENRY R. BOTHWELL, OF CINCINNATI, OHIO; SAID
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INCANDESCENT-LAMP HOLDER.

SPECIFICATION forming part of Letters Patent No. 640,362, dated January 2, 1900.

Application filed May 5, 1899. Serial No. 715,641. (No model.)

To all whom it may concern:

Be it known that we, LEO CANDA, a citizen of the United States, and HENRY R. BOTHWELL, a subject of the Queen of Great Britain, both residents of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Incandescent-Lamp Holders, of which the following is a specification.

Our invention relates to an improvement in hangers for electric incandescent lights. Its object is a hanger which is readily adjusted to and which retains itself equally well at any desired angle and which does not become worn in use so as to fall back into a certain set angle. This object is attained by the means described in the annexed specification and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a hanger embodying our invention. Fig. 2 is a sectional plan view, upon an enlarged scale, taken through line $x x$, Fig. 1. Fig. 3 is a detail vertical sectional view taken upon line $y y$ of Fig. 2. Fig. 4 is a detail elevation of the adjustable rod, the guide-rod, and the spring for increasing the sliding friction between them. Fig. 5 is an enlarged detail view of the strap-ring.

Referring to the parts, which are indicated by similar reference-letters wherever they occur throughout the various views, the bracket A, which is to be secured to the ceiling or wall of a room, has at its lower end a socket a , from the interior of which beads or studs a' project inward to form bearings for the cup B, from the interior of which a central arm b projects up above the top of the cup. Between this arm and the bar a^2 , which is secured to the bracket, a spring C is compressed. From the bottom of the cup B a rigid guide-rod b' projects downward, to the lower end of which is secured a block b^2 , through which slides an adjustable rod D, which is swiveled at its upper end to a block d , which is perforated to slide upon the guide-rod. Around the upper end of the rod D is placed a tightly-coiled spring d' , which has its ends $b^4 b^5$ bearing firmly against opposite sides of the rod b' , so that the adjustable rod does not rotate too readily in its swivel nor

slide too easily upon the guide-rod, but holds itself at any desired position. At its lower end the rod D is curved back upon itself, and to it is swiveled a strap-ring e , within which is a spring-strip e' , which tightens the swivel-joint and holds the strap firmly around the burner E upon the turning of the screw e^2 . The curved part d^2 serves as a handle by which to move the burner to any desired position. The conductor F is made of a length and is connected to the burner in a manner such that the arm D, carrying the burner, may be drawn out its full length on the guide-rod b' by pulling down on handle d^2 . In this position block d would have slid down the rod b' until spring d' strikes against block b^2 . The arm D is retracted by pushing up on handle d^2 , when block d slides upward on the guide-rod. Between block d and cup B is a coiled cushion-spring b^3 to reduce jar when the rod D is pushed inward.

When the rod b' is adjusted at any angle from the vertical, the weight of the burner E is balanced by the force of the spring C, the socket acting as a fulcrum, the rods as lever-arms for the weight of the burner, and the arm b as the lever-arm for the force of the spring. The three studs a serve as the bearing for the cup. Should they wear away unequally, it does not cause the cup after having been adjusted to any desired angle to slip back to any set position.

What we claim is—

1. In a hanger for incandescent lights the combination of a bracket having a socket at its lower end, a cup in said socket having an interior upward-projecting arm and a rod projecting downward from its bottom for supporting a burner and a spring bearing down upon said arm to hold the rod at any desired angle, substantially as shown and described.

2. In a hanger for incandescent lights the combination of a bracket having at its lower end a socket with three interiorly-projecting studs, a cup resting upon the studs, a rod projecting downward from its bottom for supporting a burner and a spring holding the cup in contact with said studs for retaining the rod at any desired angle, substantially as shown and described.

3. In a holder for incandescent lights the

combination of a bracket having a socket, a cup in the socket having an interior upward-projecting arm, a guide-rod projecting downward from the bottom of the cup having a
5 perforated block secured to its lower end, a spring bearing down upon the arm to hold the guide-rod at any desired angle, an adjustable rod passing through the perforation in said block secured at its upper end to a block per-
10 forated to slide upon the guide-rod and swiveled at its lower end to a strap-ring for holding a burner, substantially as shown and described.

4. In a holder for incandescent lights the
15 combination of a bracket having a socket, a cup in the socket having an interior upward-projecting arm, a guide-rod projecting downward from the cup having secured to its lower end a perforated block, a rod passing through the
20 perforation in said block swiveled at its upper end to a block which is perforated to slide upon the guide-rod, bent back upon itself at

the lower end to form a handle and secured to a strap-ring for receiving a burner, a spring coiled around the adjustable rod and having
25 its ends bearing against the sides of the guide-rod and a spring pressing downward on the upward-projecting arm of the cup, substantially as shown and described.

5. In a holder for incandescent lights the
30 combination of a bracket and a socket, a cup in the socket, a spring compressing the cup and socket together, a guide-rod projecting downward from the bottom of the cup, an adjustable rod to slide upon the guide-rod, a
35 strap-ring for receiving a burner swiveled at the lower end of the adjustable rod and a spring-strip within the strap-ring, substantially as shown and described.

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Witnesses:

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