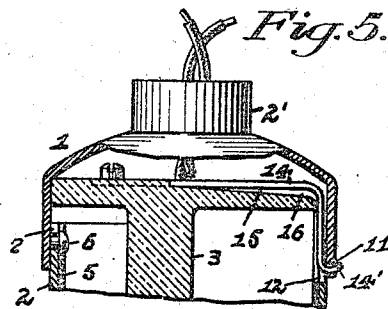
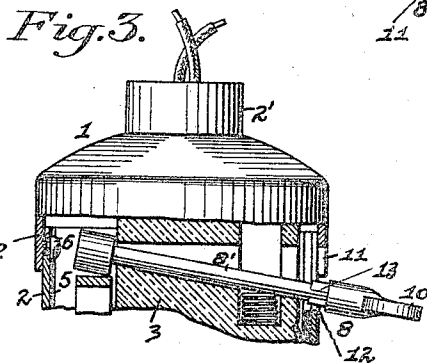
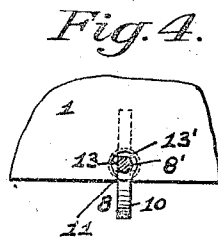
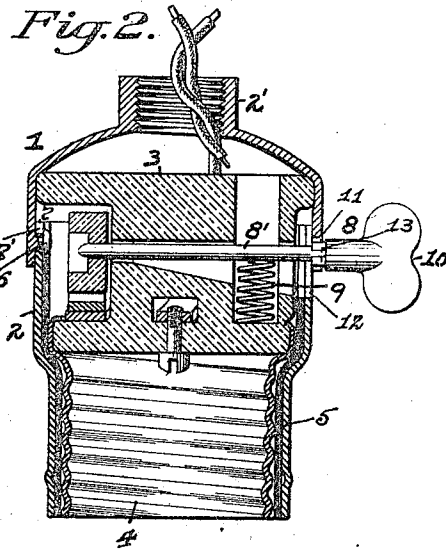
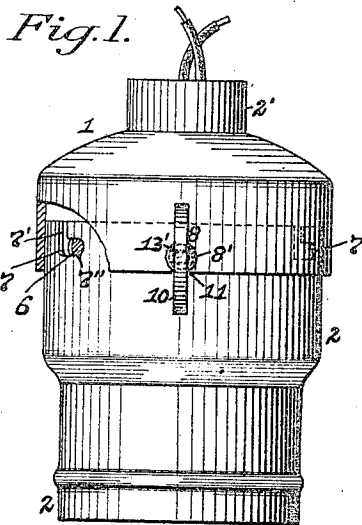


D. E. BOWN.
 SOCKET FOR INCANDESCENT ELECTRIC LAMPS.
 APPLICATION FILED FEB. 16, 1909.

949,517.

Patented Feb. 15, 1910.



WITNESSES

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UNITED STATES PATENT OFFICE.

DAVID E. BOWN, OF PITTSBURG, PENNSYLVANIA.

SOCKET FOR INCANDESCENT ELECTRIC LAMPS.

949,517.

Specification of Letters Patent.

Patented Feb. 15, 1910.

Application filed February 16, 1909. Serial No. 478,297.

To all whom it may concern:

Be it known that I, DAVID E. BOWN, a resident of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Sockets for Incandescent Electric Lamps; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to sockets for incandescent electric lamps, and has special reference to what are known as "security snap" sockets.

The object of my invention is to provide a cheap, simple and efficient form of a socket of this class whereby the top or cap when attached to the body or casing by the usual joint connection, will be securely held in place until it is desired to release the same.

My invention consists, generally stated, in the novel arrangement, construction and combination of parts, as hereinafter more specifically set forth and described and particularly pointed out in the claims.

To enable others skilled in the art to which my invention appertains to construct and use my improved socket, I will describe the same more fully, referring to the accompanying drawing, in which—

Figure 1 is a side elevation, partly broken away of a socket embodying my invention. Fig. 2 is a vertical central section of the same. Fig. 3 is a like view showing some of the parts in full lines and with the key in position to release the cap from the casing. Fig. 4 is a detail view of the inside of the cap showing the key and its seat. Fig. 5 is a sectional view, partly in full lines, showing another form of my invention.

Like symbols of reference herein indicate like parts in each of the figures of the drawing.

As illustrated in the drawing 1 represents the usual metallic top or cap of the socket, which is provided with the usual threaded nipple 2' through which the usual wires lead from their connections within the socket, and such cap fits over the usual metallic outer shell or casing 2. A head base or block of insulating material 3 is confined in any suitable manner within the cap 1 and casing 2, and it carries the usual threaded metallic inner shell 4 at the lamp end of the socket. A lining 5 of suitable insulating material is secured to and within the casing 2 and it extends between said casing and the inner shell 4.

The cap 1 is connected to the body or casing 2 by means of lugs or headed pins 6 which extend inwardly from said cap, and when the cap is placed in position on the casing the said pins will pass through the vertical portions 7' of the slots 7 in the upper end of said casing, so that when the cap is turned such pins will enter the horizontal portions 7'' of said slots and thereby support the cap in position on the casing by this usual bayonet joint connection.

In order to hold or secure the cap 1 in its connected position on the shell or casing 2 spring means are employed in connection with said cap, and when the usual key 8 is used in the socket preferably in conjunction therewith, such means being the use of a spiral spring 9 seated in the block 3 at one end and engaging under the rod or spindle 8' at its other end. In such case the key 8 is arranged in any suitable manner at its inner end to enable the same to be moved longitudinally at the socket at its outer end and its spindle 8' moved within slots 11 and 12 in the cap 1 and casing 2 respectively and registering with each other when the cap is in position, so that when the said cap is being placed on the said casing for positioning, the said key can be depressed by its spindle 8 moving in the slot 12, and the spring 9 engaging with said spindle will be compressed thereby through the grasping of the handle or thumb piece 10 of said key, as shown in Fig. 3. After this is done and the cap 1 has been placed in position on the casing 2 by turning as before described, the key 8 is released and the spindle 8' of the same will be forced along the slot 12 in said casing and into the slot 11 in the said cap by the compression on the spring 9 being thus released, so that said spindle will be thus held within said slots by said spring and thereby hold the cap in its position on the casing. If desired, the spindle 8' of the key 8 can be provided with lugs 13 on each side of the same for fitting within an enlarged portion 13' in the slot 11 in the cap 1, as shown in Fig. 4, so that when the said key is in engagement with said slot as before described, and the key turned in operating, the said lugs engaging with said enlarged portions of said slot will assist in holding the cap 1 in place on the casing 2.

When it is desired to remove the cap 1 from the casing 2, the key 8 is turned so that the lugs 13 on the spindle 8' are in line with

the slots 11 and 12 and then upon said key being depressed as before described and being so held, the cap 1 can be turned, so that the pins 6 on the same will move along the horizontal portions 7'' of the slots 7 in the casing 1 to a position opposite the vertical portions 7' in said slots, when the said cap can be removed by passing the said pins through said vertical portions.

10 In Fig. 5 my improved device for holding the cap 1 in position on the casing 2 is shown as applied to a keyless socket, in which the spring means is in the form of a leaf spring 14 bent to L-shape and having a lip 14' at the outer end on one portion for passing through and fitting within the slots 11 and 12 in said cap and casing respectively, when the cap is in position. The inner end of this spring 14 is secured to the upper face of the block 3, and the other portion of said spring carrying said end is adapted to be seated in a recess 15 in said face, which is provided with an inclined bottom 16, so that when the said spring is depressed from engagement with the slot 11 in the cap 1 to free said cap through pressure in grasping the lip 14' the said lip will move within the slot 12 in the casing 1 and the portion of said spring carrying said lip will move within the said block, while the inner or other portion of said spring will be moved toward the said bottom 16, and thereby permit the cap to be removed from the casing.

35 Various other modifications and changes in the design, construction and operation of my improved socket may be resorted to without departing from the spirit of the invention or sacrificing any of its advantages.

40 What I claim as my invention and desire to secure by Letters Patent is—

1. In a lamp-socket, the combination of the outer shell or casing, a cap removably held in engagement with said casing, a block

within said casing, and spring controlled means on said block for locking said cap in position on said casing. 45

2. In a lamp-socket, the combination of the outer shell or casing, a cap removably held in engagement with said casing, a block within said casing, and spring controlled means on said block for engaging with said casing and cap to lock said cap in position on said casing. 50

3. In a lamp-socket, the combination of the outer shell or casing, a cap removably held in engagement with said casing, a block within said casing, a longitudinally movable key on said block and engaging with said casing and cap to lock said cap in position on said casing, and a spring on said block for engaging with said key. 55

4. In a lamp-socket, the combination of the outer shell or casing, a cap removably held in engagement with said casing, a block within said casing, a longitudinally movable key in said block and engaging with said casing and cap through slots therein to lock said cap in position on said casing, and a spring on said block for engaging with said key. 60

5. In a lamp-socket, the combination of the outer shell or casing, a cap removably held in engagement with said casing, a block within said casing, a longitudinally movable key in said block and engaging with said casing and cap through slots therein to lock the cap in position on said casing, lugs on said key for engaging with enlarged portions in the cap slots, and a spring on said block for engaging with said key. 65

In testimony whereof, I, the said DAVID E. BOWN, have hereunto set my hand. 70

DAVID E. BOWN.

Witnesses:

JAMES L. WEHN,
J. N. COOKE.