

W. H. PERKINS.
 INCANDESCENT LAMP SOCKET.
 APPLICATION FILED MAY 3, 1909.

949,363.

Patented Feb. 15, 1910.

2 SHEETS—SHEET 1.

Fig 1

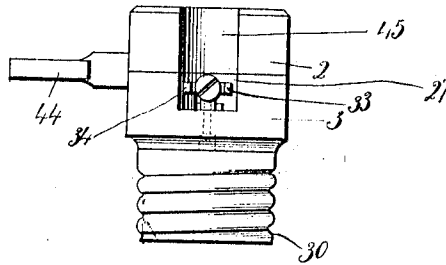


Fig 2

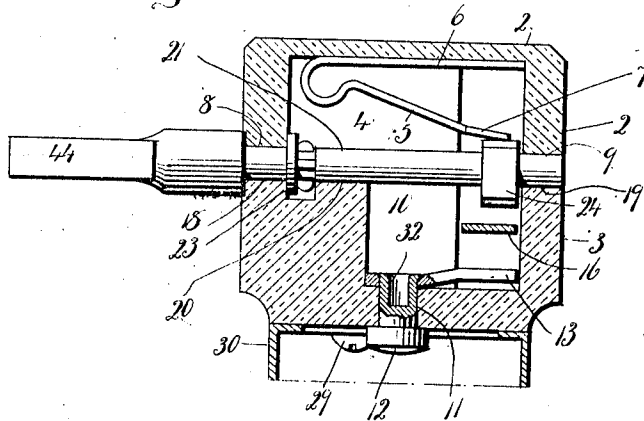


Fig 3

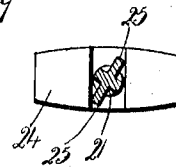


Fig 4

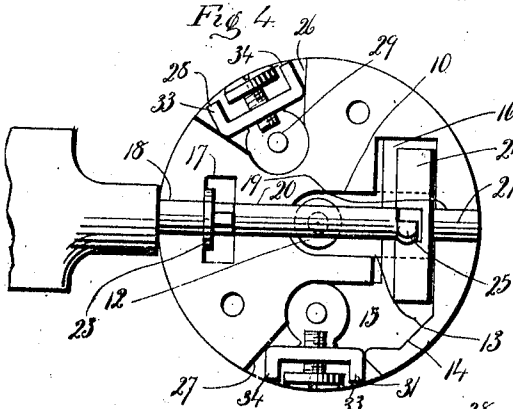


Fig 5

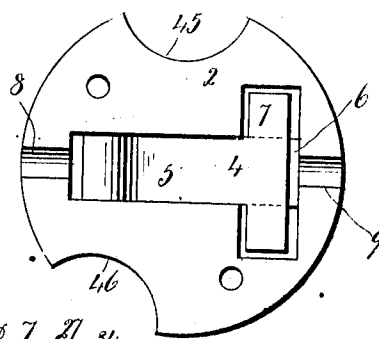


Fig 6

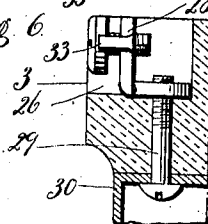
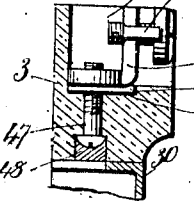


Fig 7



Witnesses,
 C. J. Reed.
 C. L. Reed

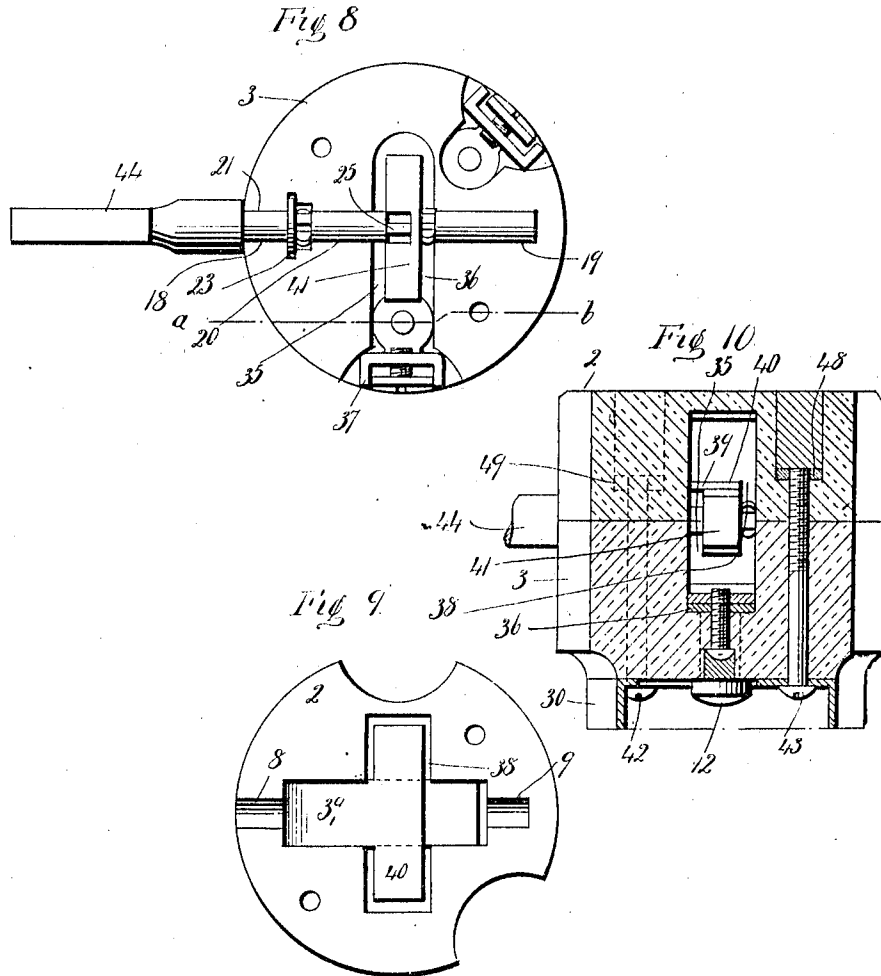
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2 SHEETS—SHEET 2.



Witnesses
C. J. Reed:
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UNITED STATES PATENT OFFICE.

WALTER H. PERKINS, OF CHESHIRE, CONNECTICUT, ASSIGNOR TO THE WATERBURY MFG. CO., OF WATERBURY, CONNECTICUT, A CORPORATION.

INCANDESCENT-LAMP SOCKET.

949,363.

Specification of Letters Patent.

Patented Feb. 15, 1910.

Application filed May 3, 1909. Serial No. 493,592.

To all whom it may concern:

Be it known that I, WALTER H. PERKINS, a citizen of the United States, residing at Cheshire, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Incandescent-Lamp Sockets; and I do hereby declare the following, when taken in connection with the accompanying drawings and the numerals of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1 a side view of an incandescent-lamp socket constructed in accordance with my invention. Fig. 2 a vertical sectional view of the same on an enlarged scale. Fig. 3 a sectional view of the switch-shaft showing the tumbler mounted thereon. Fig. 4 a top or plan view of the inner face of the lower part and showing the switch-shaft in position. Fig. 5 a plan view of the inner face of the upper part. Fig. 6 a broken sectional view showing the connection between one of the binding devices and the shell. Fig. 7 a sectional view showing the manner of mounting the other binding device. Fig. 8 a top or plan view of the lower part, illustrating a modified form. Fig. 9 a plan view of the inner face of the upper part used in connection therewith. Fig. 10 a sectional view on the line *a-b* of Fig. 8.

This invention relates to an improvement in incandescent-lamp sockets, the object being to provide a simple, cheap, convenient, durable and effective device complying with all the usual requirements in devices of this character.

With these ends in view my invention consists in the construction to be hereinafter described and pointed out in the claims.

In carrying out my invention as shown in Figs. 1 to 7 inclusive, the insulator block within which the mechanism is mounted, is formed in two parts which I will term the upper part 2 and the lower part 3. These are formed from porcelain or other suitable insulating material. In the upper part 2 is a T-shaped recess or chamber 4 adapted in form to receive a T-shaped tumbler-operating spring having arms 5 and 6, the former terminating in a T or cross-piece 7 which constantly presses down upon the tumbler 24 which it throws, so to speak, into its respective positions. In the face of the upper

part 2 at each end of its chamber 4 are semi-circular notches 8 and 9 for the reception and bearing of the switch-shaft 21. The lower part 3 has a chamber 10 having a central opening 11 for the reception of a rivet 12 employed to permanently secure the contact-arm 13 in the said chamber 10. This chamber has an offset 14 for the reception of the arm 15 of a contact-spring 16 which extends over the contact-arm 13 aforesaid. In the face of the lower part 3 is a semi-circular recess 17 flanked on either side by notches 18, 19, corresponding to the notches 8 and 9 before mentioned, and forming therewith bearings for the switch-shaft 21 which has in the part 3 an additional bearing-notch 20. This switch-shaft 21 has a handle 44 and is held against longitudinal movement by lugs coacting with a washer 23 carried by the shaft and bearing against outer wall of the recess 17 in the lower part 3. Mounted on the shaft 21 at a point between the arm 7 of the tumbler-operating spring and the contact-spring 16, is a tumbler 24 held in position on the shaft by ears thereon, and by the adjacent walls of the chambers 4 and 10 in the upper and lower parts 2 and 3.

In the outer surface of the lower part 3 are recesses 26 and 27 to receive the usual binding devices 28 and 31 for the attachment of the wires which are not shown, and registering with these recesses 26 and 27 and in the upper part 2 are suitable recesses 45, 46, for the passage of the said wires to said binding devices. The binding device 28 is secured in the part 3 by a screw 29 which extends through the part and is employed for making electric connection with the shell 30. The binding device 31 is secured in place in the part 3 by a screw 47 which is embedded in the said part 3 and has its head protected by sealing 48 from contact with the shell 30. The said screw 47 passes through the binding device 31 and the contact-spring 15 and holds them together and in proper position in the lower part 3. The central part of the shell 30 is cut away so as not to come in contact with the rivet 12. As herein shown the rivet 12 by which the arm 13 is secured in place, has its shank drilled as at 32 so that it may be readily upset over the arm 13 which it secures in place. Preferably and also as shown, the binding devices 28 and 31 will be

formed with ears 33, 34, which assist in holding the wires more securely in place.

Instead of recessing the upper and lower parts 2 and 3 of the block so that the tumbler 5 24 on the switch-shaft 21 will be arranged at one side of the block, the block may be provided with centrally arranged chambers as shown in Figs. 7, 8 and 9 of the drawings. As shown in these figures the lower part 3 10 has a centrally arranged chamber 35 receiving a contact-spring 36 firmly secured in place by one of the binding-devices 37 in the same manner as the contact-spring 15 previously described. The upper part 2 of 15 this modified construction has a T-shaped recess 38 to receive a T-shaped tumbler-operating spring 39 the outer end 40 of which will be in line with the contact-spring 36. The tumbler 41 on the switch-shaft 21 20 will be in line with these two springs 36 and 39 so as to make and break the circuit between them. In both constructions shown and described herein, the parts are secured together by screws 42 and 43 entering nuts 25 48 and 49, embedded in the upper part 2. These screws not only hold the parts together, but connect the shell 30 to the lower part 3.

I claim:—

30 1. In an incandescent-lamp socket, the combination with a sectional block composed of recessed upper and lower parts the upper part having a T-shaped recess, of a T-shaped 35 tumbler-operating spring located in the T-shaped recess in the upper part, a contact spring located in the recess in the lower part, a switch-shaft journaled between the two parts, and a tumbler mounted on the said shaft in position to coact with the T-shaped 40 tumbler-operating spring and with the contact spring.

2. In an incandescent-lamp socket, the

combination with a sectional block composed of recessed upper and lower parts, the upper part having a T-shaped recess, of a T-shaped 45 tumbler-operating spring located in the said T-shaped recess in the upper part, a contact spring located in the recess in the lower part, a switch shaft journaled between the said parts, a tumbler mounted on the said shaft 50 and coacting with the said T-shaped tumbler-operating spring and with the contact spring, and binding devices located in the said lower part, one of the said binding devices being connected with the contact 55 spring in the said lower part.

3. In an incandescent-lamp socket, the combination with a sectional block having recessed upper and lower parts, the upper part having a T-shaped recess, of a T-shaped 60 tumbler-operating spring located in the said T-shaped recess in the upper part, a contact spring located in the recess in the lower part, a switch shaft having bearing in registering notches in the abutting faces of the said 65 parts, a tumbler mounted on the said shaft and coacting with the said T-shaped tumbler-operating spring on the one hand and with the contact spring on the other hand, a washer mounted on the shaft and 70 coacting with one of the said parts to hold the said shaft against longitudinal movement, and binding devices located in recesses in the exterior surface of the said lower part and connected with the contact- 75 spring therein.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

WALTER H. PERKINS.

Witnesses:

L. C. HOBART,
R. G. STEWART.