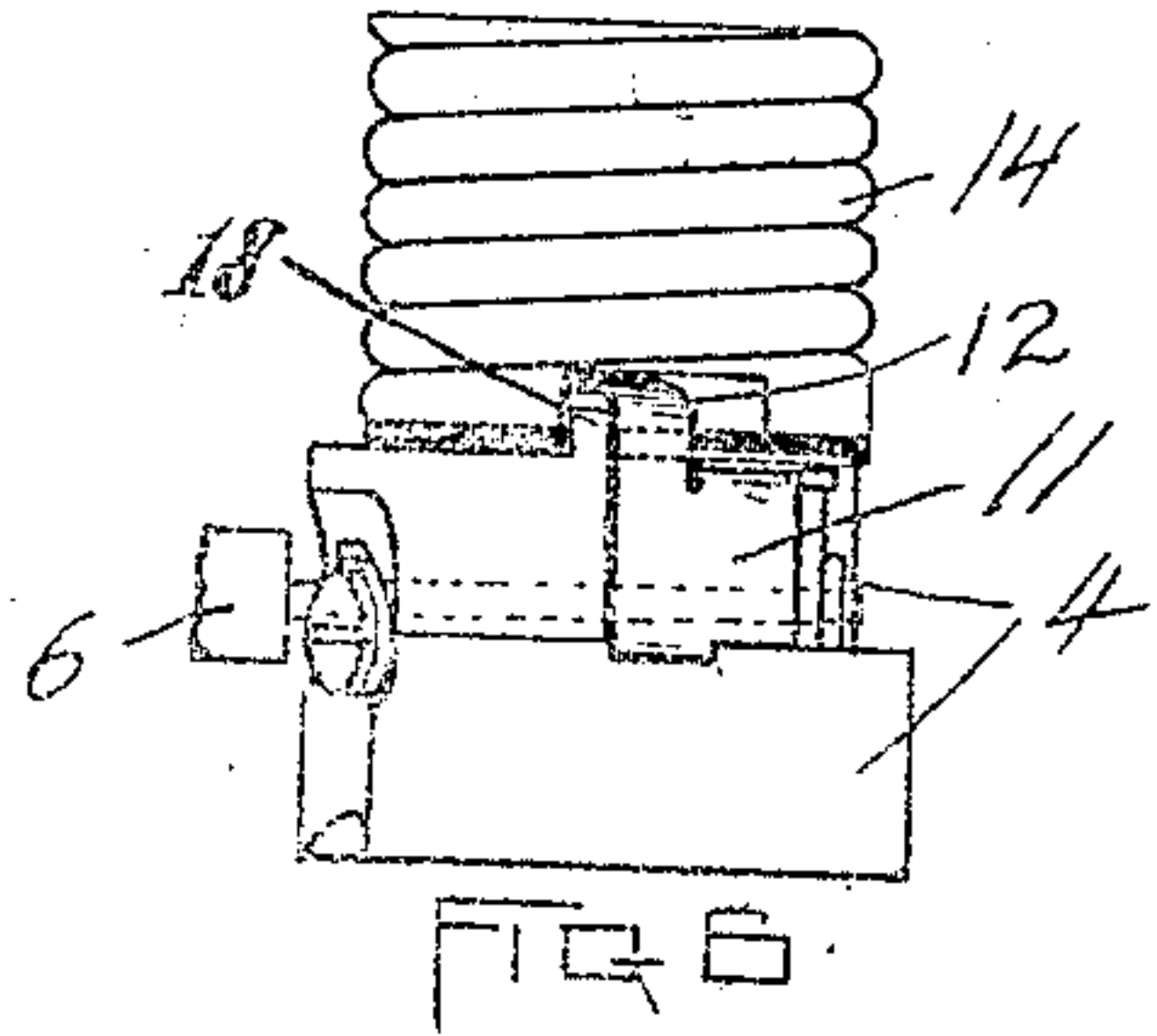
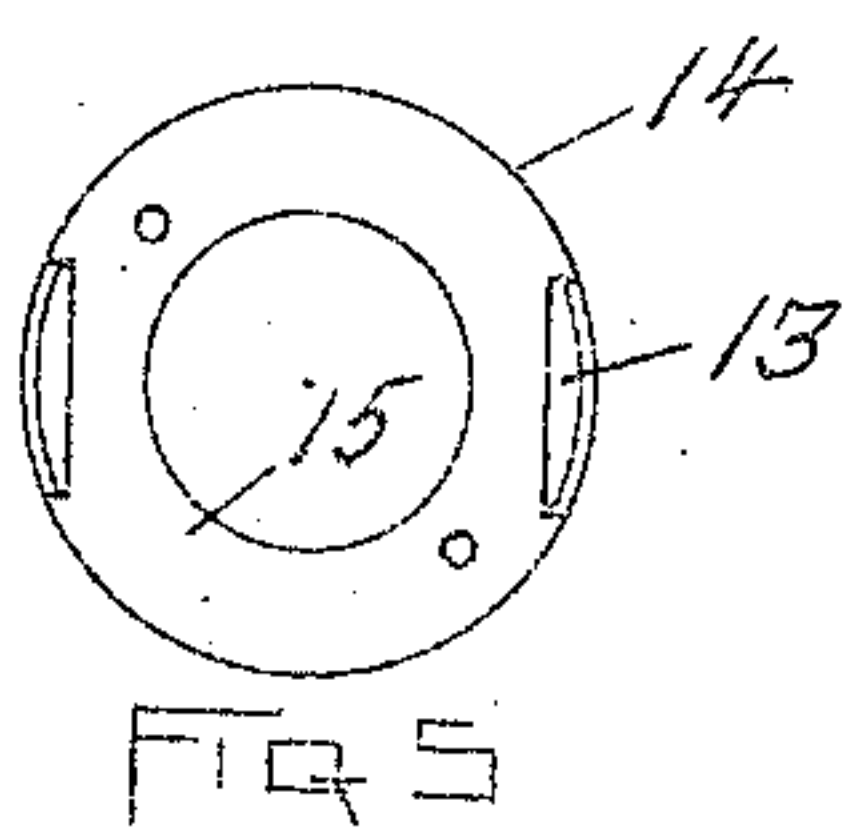
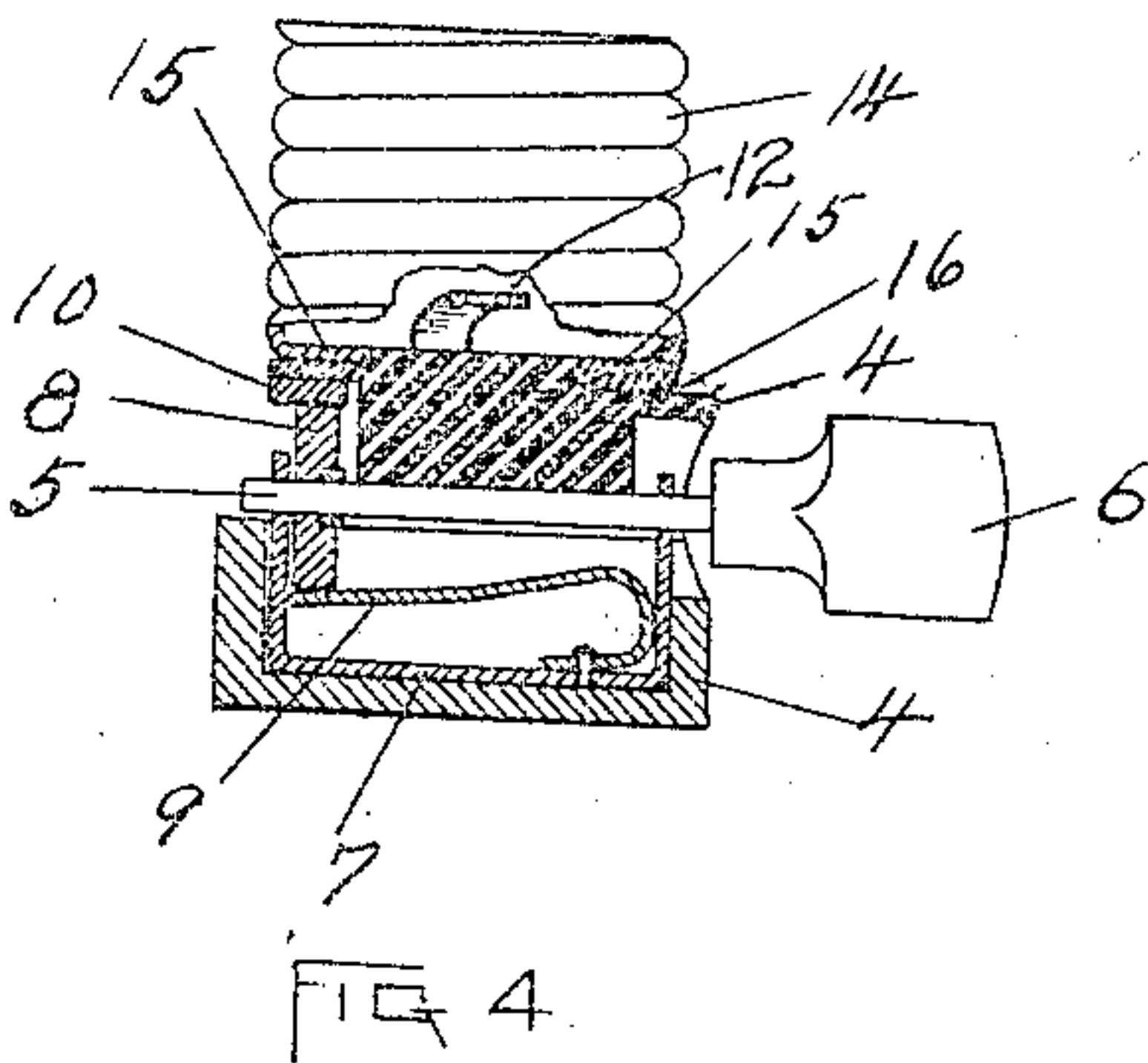
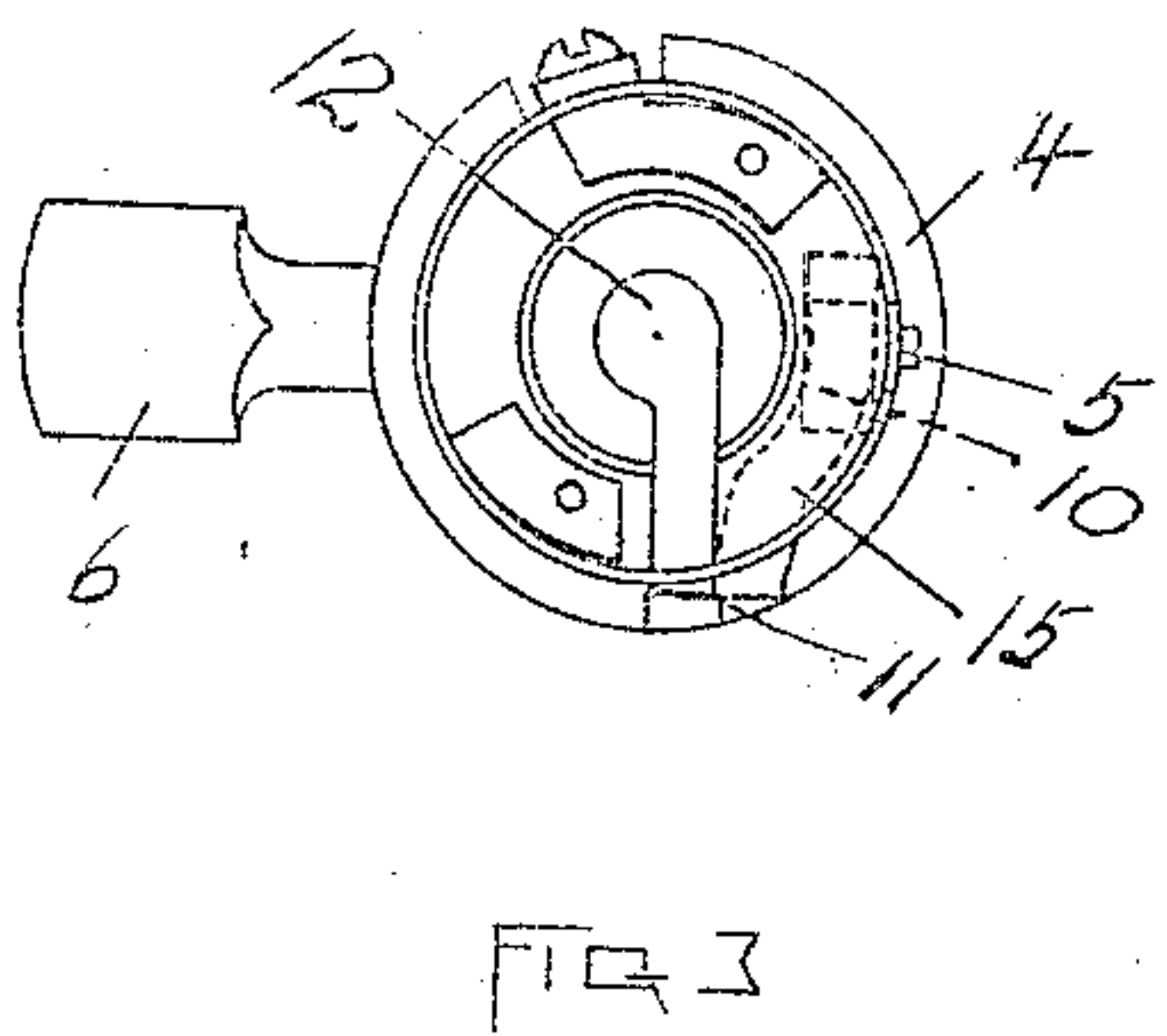
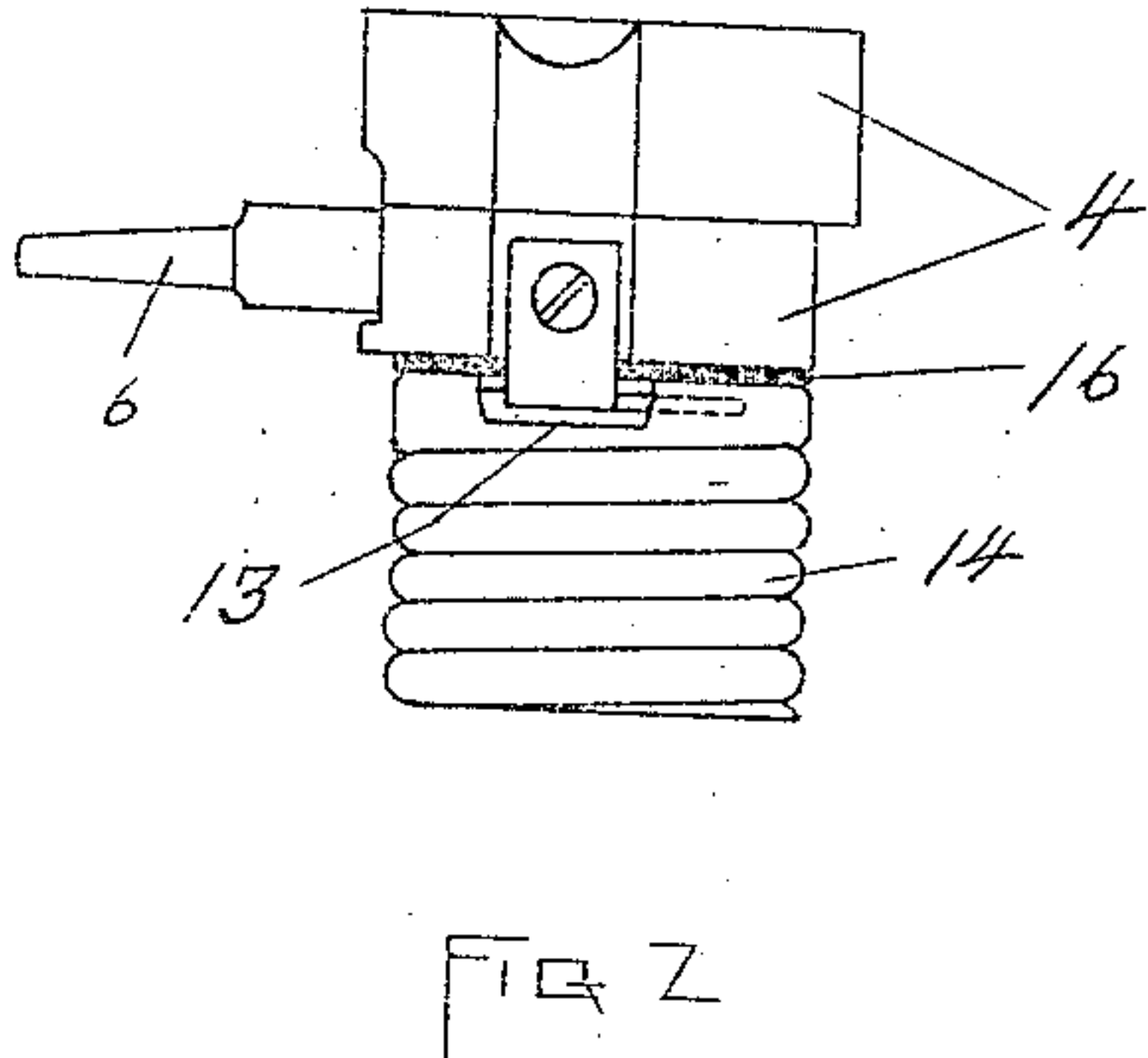
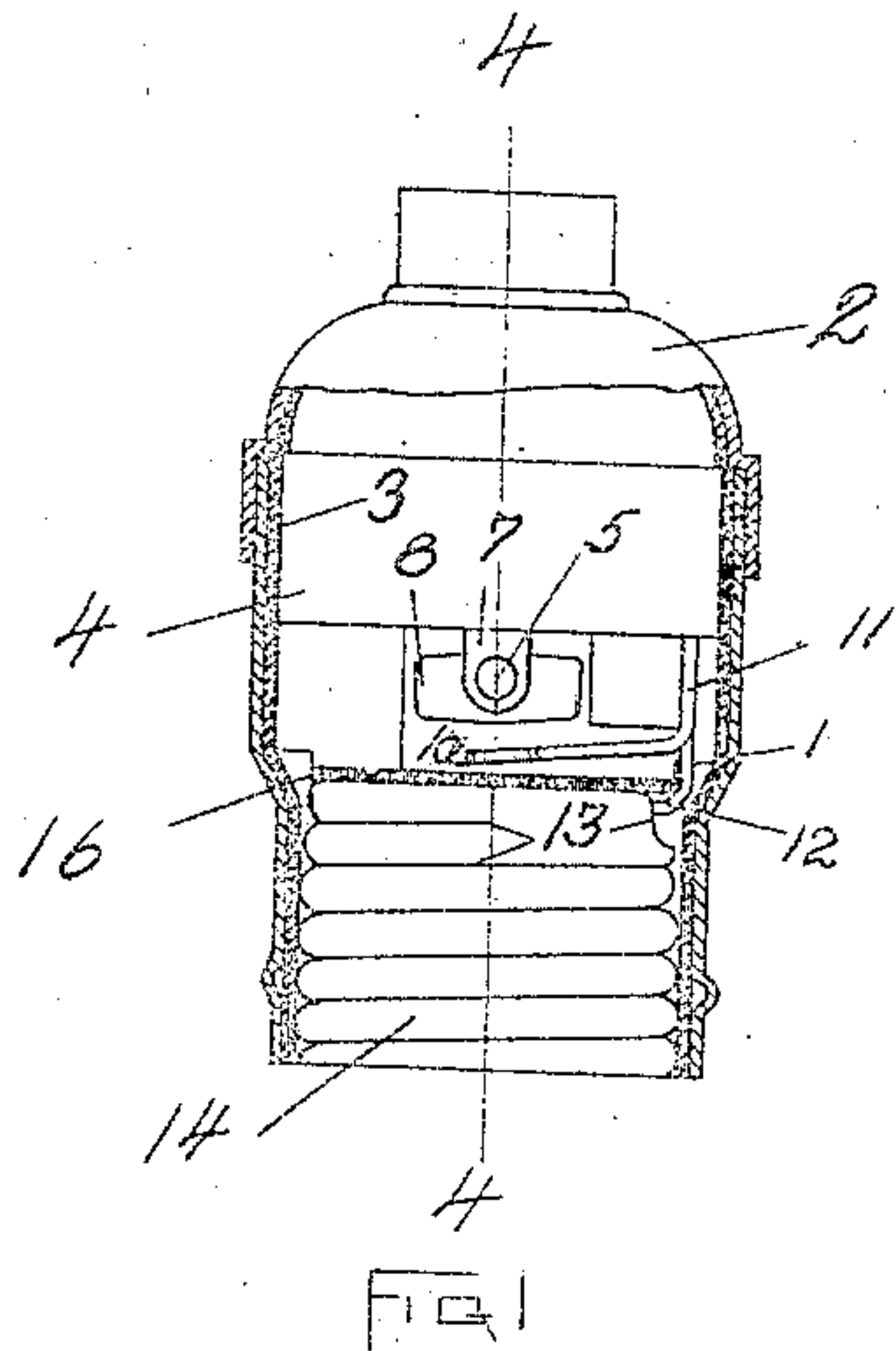


A. WEBER, SR.  
 INCANDESCENT ELECTRIC LAMP SOCKET.  
 APPLICATION FILED OCT. 1, 1906.

915,135.

Patented Mar. 16, 1909.



WITNESSES  
 E. M. O'Reilly.  
 J. Donsbach.

INVENTOR  
 August Weber, Jr.  
 By Mosher & Curtis,  
 attys.



# UNITED STATES PATENT OFFICE.

AUGUST WEBER, SR., OF SCHENECTADY, NEW YORK, ASSIGNOR TO WEBER ELECTRIC COMPANY, OF SCHENECTADY, NEW YORK, A CORPORATION OF NEW YORK.

## INCANDESCENT-ELECTRIC-LAMP SOCKET

No. 915,135.

Specification of Letters Patent.

Patented March 16, 1909.

Application filed October 1, 1906. Serial No. 336,341.

*To all whom it may concern:*

Be it known that I, AUGUST WEBER, Sr., a citizen of the United States, residing at Schenectady, county of Schenectady, and State of New York, have invented certain new and useful Improvements in Incandescent-Electric-Lamp Sockets, of which the following is a specification.

The invention relates to such improvements and consists of the novel construction and combination of parts hereinafter described and subsequently claimed.

Reference may be had to the accompanying drawings, and the reference characters marked thereon, which form a part of this specification.

Similar characters refer to similar parts in the several figures therein.

Figure 1 of the drawings is a view in side elevation, with the case broken away and shown in vertical section, of my improved incandescent electric lamp-socket. Fig. 2 is a side elevation of the same with the case removed, viewed from a position at right angles to the view shown in Fig. 1. Fig. 3 is a bottom plan view of the parts shown in Fig. 1. Fig. 4 is a central, vertical section of the same taken on the broken line 4—4 in Fig. 1. Fig. 5 is a plan view of the inner flanged end of the screw-shell. Fig. 6 is a side elevation of the part shown in Fig. 2 inverted.

This invention relates more particularly to the class of key-sockets for incandescent electric lamps.

The principal object of the invention is to increase the efficiency of, simplify, and render more safe, such a socket.

Other objects will appear in connection with the following description.

I have shown in the drawings a type of lamp-socket fully shown and described in U. S. Letters Patent No. 743,207, dated Nov. 3, 1903, granted to myself and others for incandescent electric lamp-sockets, to which patent reference may be had for a more complete understanding of the structure of the socket.

Referring to the drawings herein, wherein the invention is shown in preferred form, 1, is the case, 2, the cap and, 3, the insulating lining for the case which may be in the usual form. Contained within the case is a two-piece base, 4, formed of blocks of porcelain or other insulating material, through which

passes the shaft, 5, of the key, 6, having bearings in the frame, 7, confined between said blocks.

Mounted upon the shaft, 5, is a switch-block, 8, having the usual lost-motion connection with said shaft, said block being adapted to bear at all times upon the spring, 9, and being adapted, when it is desired to close the circuit, to bear upon the spring-contact, 10, forming one member of a bifurcated metal plate, 11, the shank of which is clamped between the porcelain blocks of the base, and the other member, 12, of which projects through an aperture, 13, in the screw-shell, 14, mounted upon said base, said member, 12, being adapted to form the yielding contact for the central lamp terminal.

The construction thus far described is substantially the same as that more fully shown and described in said Letters Patent No. 743,207, for which reason it will be unnecessary to more fully describe the same in the present application.

In use, the metal frame, 7, is connected with one of the circuit wires, and the screw-shell, 14, with the other circuit wire, said connections being made in any known manner, the constructions above described being substantially those shown and described in said prior patent. The screw-shell, 14, which is preferably made of sheet-metal, has on its inner end an introverted flange, 15, whereby it is attached to the insulating base, which flange is intact and continuous opposite the contact-plate, 10. Interposed between the screw-shell, 14, and the insulating base, 4, is a plate or washer, 16, of insulating material, which effectively separates the screw-shell, 14, on one side of the circuit, from said contact-plate, 10, which is on the other side of the circuit, so that it is impossible for a short circuit to be formed by a passage of the current directly from the plate, 10, to the screw-shell. The interposition of the insulating plate or washer, 16, enables me to maintain the introverted end-flange, 15, of the screw-shell, integral, throughout substantially the whole circumference of the shell, thus serving to strengthen and increase the durability and rigidity of the structure.

The insulating plate or washer, 16, may be of any known material and form adapted



to thus prevent a short circuit between the contact-plate, 10, and the screw-shell opposite said contact-plate.

A further feature of my invention relates to the more positive insulation of the screw-shell and the flange on the inner end thereof, from the neighboring central terminal-plate where the same passes through an aperture in said shell. Features of construction whereby this is accomplished is illustrated in Fig. 6, and consists of a projection comprising a flange or rib, 18, formed upon the outer base of the inner porcelain block, 4, integral therewith and adapted to project downwardly between the arm, 12, of the terminal-plate, 11, and the cut edge of the shell and flange, 15, where said terminal-plate passes through the shell. This rib or flange, 18, not only serves as insulation interposed between said parts in use, but also forms a positive stop for the screw-shell in assembling the parts, making it impossible for the shell to be placed sufficiently out of its proper position upon the porcelain block to cause danger of a short circuit in use.

What I claim as new and desire to secure by Letters Patent is—

1. In an incandescent electric lamp-socket and in combination, an insulating base; a switch-block; means for operating the switch-block; a plate on one side of the circuit with which the switch-block is adapted to make and break contact; a screw-shell mounted upon said base in connection with the opposite side of the circuit, and having opposite said contact-plate a continuous introverted end-flange; and an insulating plate interposed between said end-flange on the shell and said contact-plate in the line of movement of said contact-plate.

2. In an incandescent electric lamp-socket and in combination, an insulating base; a switch-block; means for operating the switch-block; a plate on one side of the circuit with which the switch-block is adapted to make and break contact; a screw-shell mounted upon said base in connection with the opposite side of the circuit, and having opposite said contact-plate a continuous introverted end-flange; an insulating washer interposed between said shell and said insulating base and said contact-plate; an inclosing shell and cap; and an insulating lining for said shell.

3. In an incandescent electric lamp-socket and in combination, an insulating base; a switch-block; means for operating the switch-block; a bifurcated plate mounted upon the base with one contact member of which plate the switch-block is adapted to make and break contact; a screw-shell mounted upon the base, and having on its inner end a continuous introverted flange opposite said contact member; an insulating washer interposed between said screw-shell and base and between said screw-shell and said contact-member, said screw-shell having an aperture through which the other member of said bifurcated plate extends into position to be engaged by the central lamp terminal.

4. In an incandescent electric lamp socket and in combination, an insulating base; a screw-shell mounted upon the base in connection with one side of the circuit, and provided with an aperture; a contact-plate mounted upon said insulating base in connection with the other side of the circuit, and having a contact-member projecting through said shell-aperture into position to make contact with a terminal on the said lamp, said insulating base having an integral projection interposed between, and insulating from each other, said contact-plate and the screw-shell where the contact-plate passes through said aperture.

5. In an incandescent electric lamp-socket and in combination, an insulating base; a screw-shell having an introverted end-flange mounted upon said base in connection with one side of the circuit, and provided with an aperture; a contact-plate mounted upon said insulating base in connection with the other side of the circuit, and having a contact-member projecting through said shell-aperture into position to make contact with a terminal on the said lamp, said insulating base having an integral projection interposed between, and insulating from each other, said contact-plate and the screw-shell with its introverted flange, where the contact-plate passes through said aperture.

In testimony whereof, I have hereunto set my hand this 26th day of September, 1906.

AUGUST WEBER, SR.

Witnesses

E. M. O'REILLY,  
J. DONSBAUGH.