

E. B. CRAFT.
 SWITCHBOARD SIGNAL LAMP.
 APPLICATION FILED FEB. 1, 1907.

899,514.

Patented Sept. 29, 1908.

Fig. 1

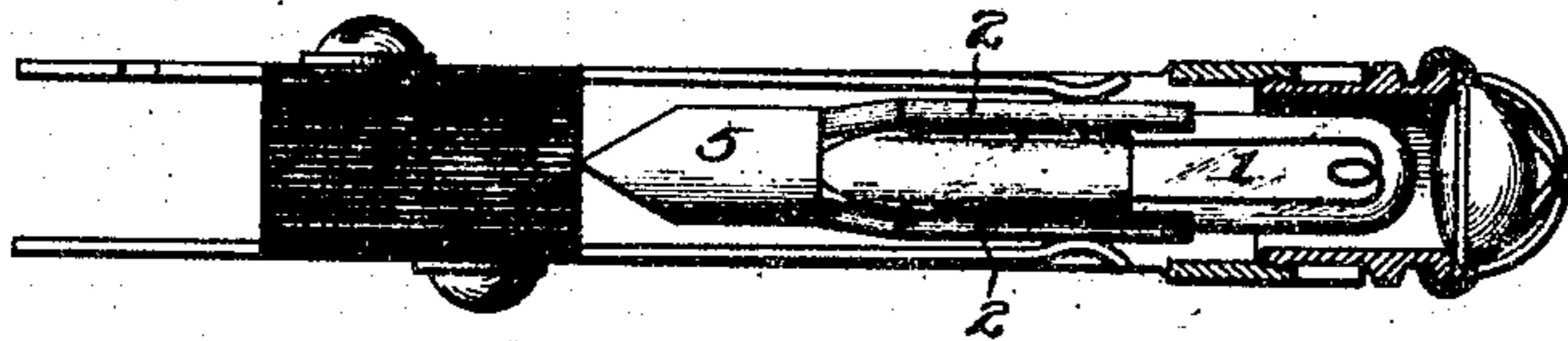


Fig. 2

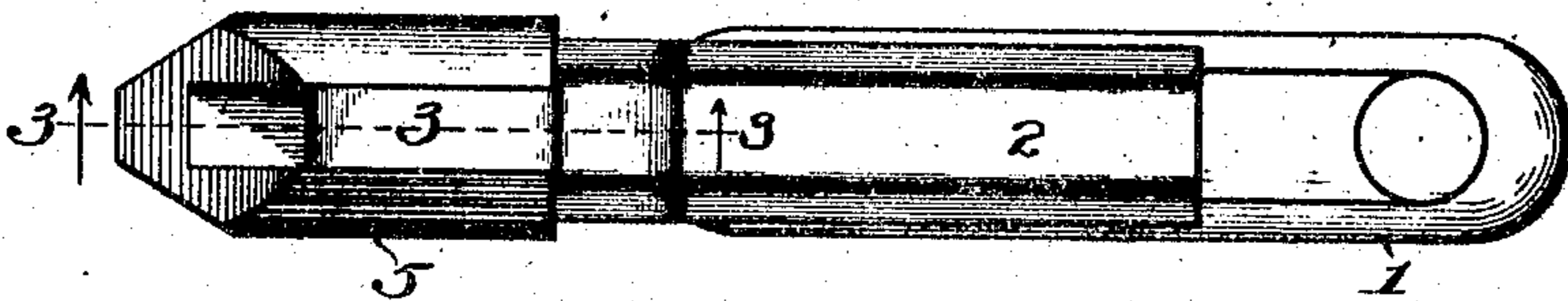


Fig. 3

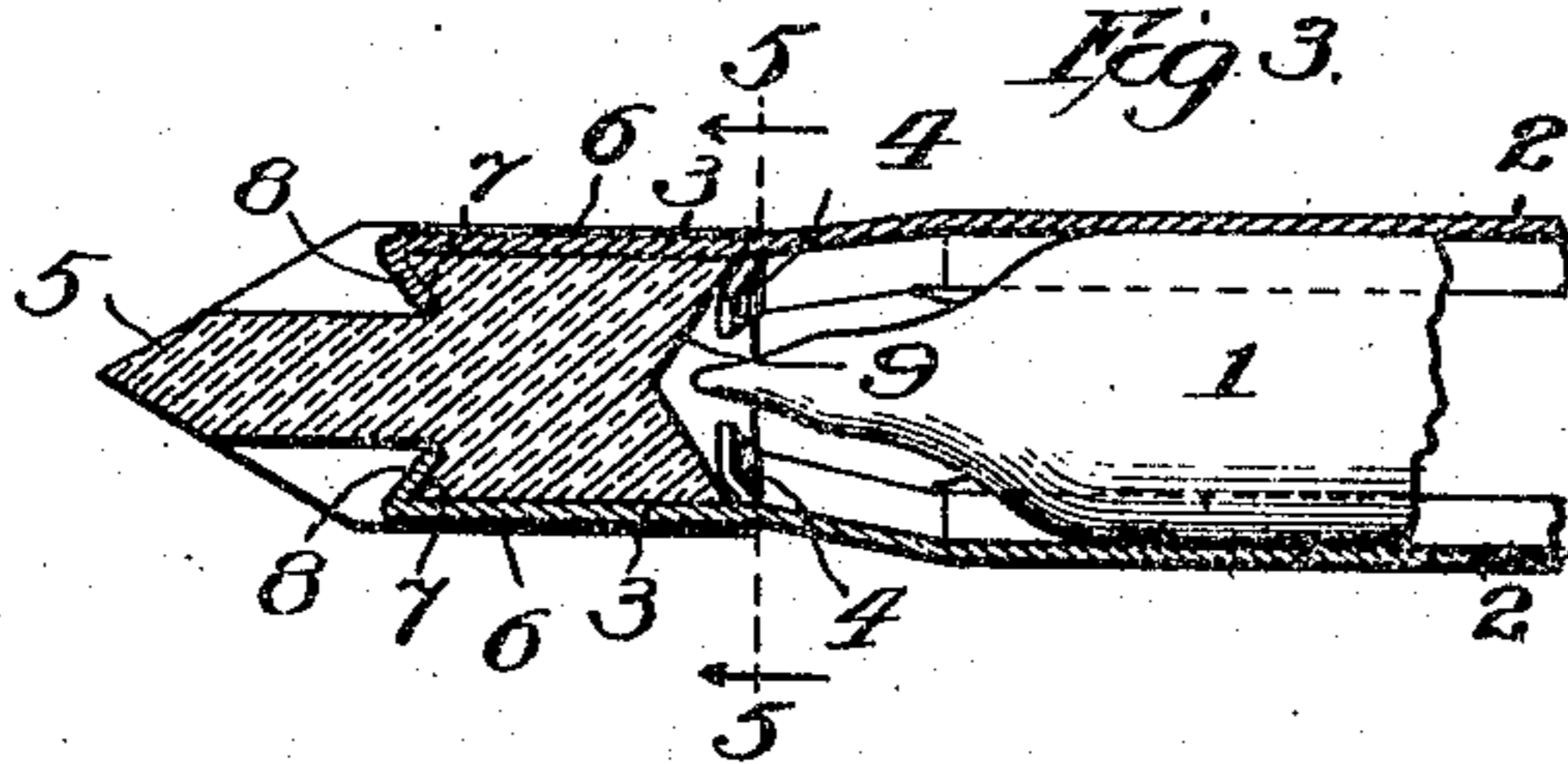


Fig. 4

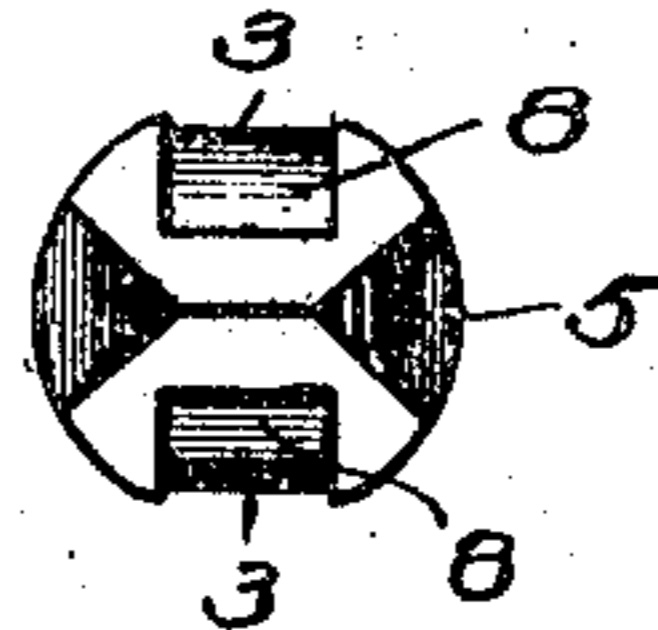
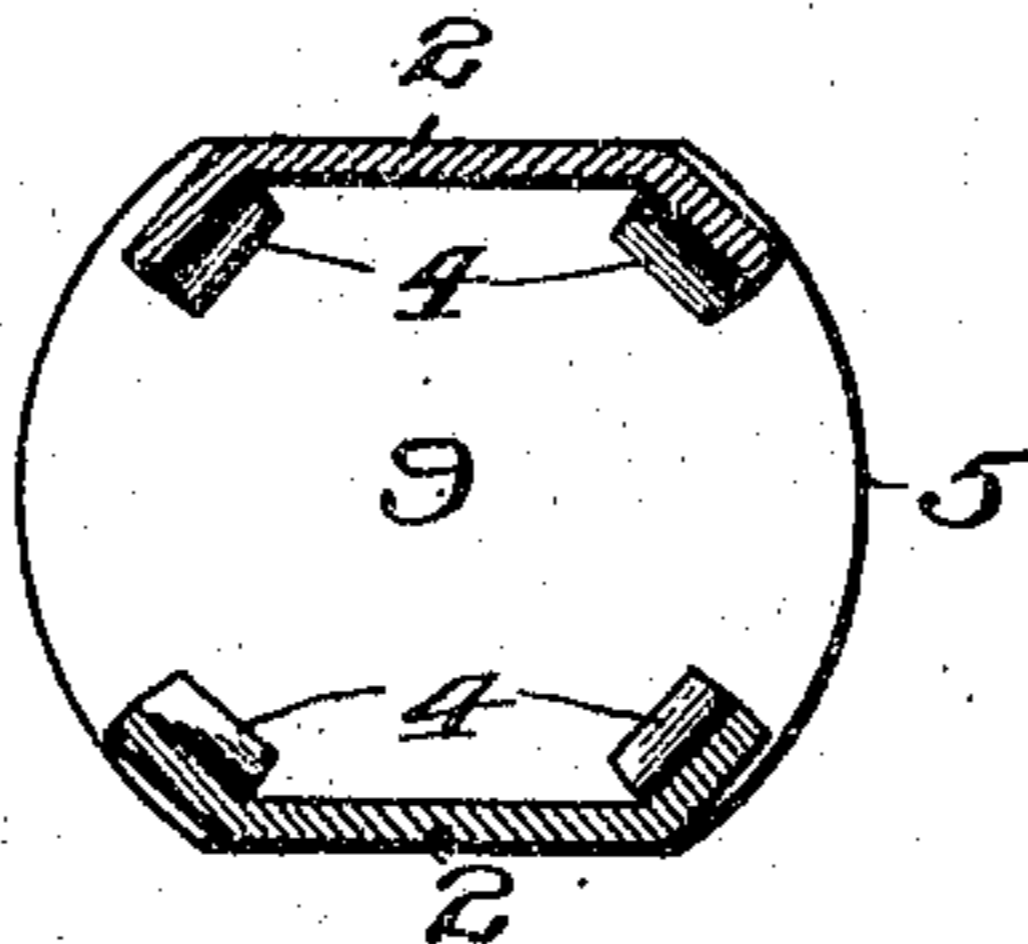


Fig. 5



Witnesses:

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UNITED STATES PATENT OFFICE.

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SWITCHBOARD SIGNAL-LAMP.

No. 899,514.

Specification of Letters Patent.

Patented Sept. 29, 1908.

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To all whom it may concern:

Be it known that I, EDWARD B. CRAFT, citizen of the United States, residing at Wilmette, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Switchboard Signal-Lamps, of which the following is a full, clear, concise, and exact description.

My invention relates to signal lamps for telephone switchboards, and its object is to provide improved means for supporting and securing the ends of the terminal plates of such lamps.

In the miniature incandescent electric lamps, commonly used for signaling purposes on telephone switchboards, the bulb is provided with two terminal plates secured upon opposite sides of said bulb. The ordinary telephone-switchboard has a series of lamp sockets each provided with contact springs between which a lamp is inserted, said springs engaging said terminal plates. Owing to the smallness of such signal lamps, they are liable to injury, especially in the act of inserting them in their lamp sockets. It is common, therefore, to provide the lamp with a base of some substantial non-combustible insulating material to which the terminal plates are secured. It has been a difficult matter to securely fasten said plates to the base and at the same time to avoid all up-standing parts which might interfere with the ready insertion of the lamp into its socket. By my invention, however, I have provided simple means for securing the plates to the base which provides a surface having no projecting parts.

My invention may be more readily understood by reference to the accompanying drawings, in which,

Figure 1 is a view showing the lamp of my invention in position, the lamp socket being in section; Fig. 2 is a view in elevation; Fig. 3 is a section on the line 3—3 of Fig. 2; Fig. 4 is a rear end elevation; and Fig. 5 is a section on the line 5—5 of Fig. 3.

Similar letters of reference designate like parts wherever they are shown.

In the drawings, 1 designates the glass bulb of the lamp. The lamp filament is connected by lead-in wires in the usual way to the terminal plates 2, 2, which are secured upon the outside of the bulb. Each of said plates is provided at its rear end with a tongue 3, preferably narrower than the

plate, in order that shoulders or stops 4 may be provided on each side of said tongue by slitting the plate a short distance and bending the slitted portions inwardly.

The supporting base 5 may be of any suitable insulating material, as for example, porcelain. Its lateral surface is provided with longitudinally extended channels 6, 6, preferably rectangular in cross-section, as being of the simplest form. Said channels are each of a width and depth to receive its corresponding tongue, in order that the outer surface may be flush and have no projecting parts.

The bottom wall of the channel 6 is preferably undercut at each end, as at 7 and 9 respectively. The undercut 9 may be formed by providing a conical socket in the end of the base which receives the intumed shoulders 4. The end of the tongue 3 may be bent back into the undercut 7 in the form of a hook or lip 8. It will be apparent, therefore, that since the lips 8 and 4 extend towards each other, the tongue 3 is in effect dovetailed to the base 5, as appears most clearly in Fig. 3.

I have thus provided a simple and economical means for securely fastening the terminal plates to their supporting base and at the same time for providing no projecting parts on the base.

I claim:

1. In an incandescent electric lamp, the combination with a base of insulating material, said base having channels in its lateral surface, of a bulb and terminal plates secured to said bulb and base, said plates being provided with tongues lying in channels approximately flush with the tops thereof and with intumed portions engaging said base at each end of the channels to prevent the displacement of said tongues.

2. In an incandescent electric lamp, the combination with a base of insulating material, said base having rectangular channels in its lateral surface, of a bulb and terminal plates secured to said bulb and base, said plates being provided with narrowed tongues lying in said channels, approximately flush with the tops thereof, said plates also having intumed portions upon each side of the tongues, and said tongues having intumed lips at their rear ends, for engaging said base at each end of the channels to securely hold said parts in their assembled position.

3. In an incandescent electric lamp, the combination with a base of insulating material, said base having channels in its lateral surface, the bottom wall of each channel being undercut at each end, of a bulb, and terminal plates carried by said bulb, said plates being provided with a narrowed tongue lying in said channel, lips being provided at each end of said tongue extending in said undercut ends.
4. In an incandescent electric lamp, the combination with a base of insulating material, said base having a conical socket in its front end and channels in its lateral surface, the bottom wall of each channel being under-

cut at its rear end, of a bulb and terminal plates carried by said bulb, said plates being provided with narrowed tongues lying in said channels, the rear end of said tongues having inwardly turned lips lying in said undercut ends of the base and said plates having inwardly turned shoulders lying in said conical socket.

In witness whereof, I, hereunto subscribe my name this 30th day of January A. D., 1907.

EDWARD B. CRAFT.

Witnesses:

R. G. JOHANSEN,
ROY. T. ALLOWAY.