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PATENTED NOV. 27, 1906.

G. W. GOODRIDGE.

CONSTRUCTION OF INCANDESCENT ELECTRIC LAMP SOCKETS.

APPLICATION FILED APR. 9, 1906.

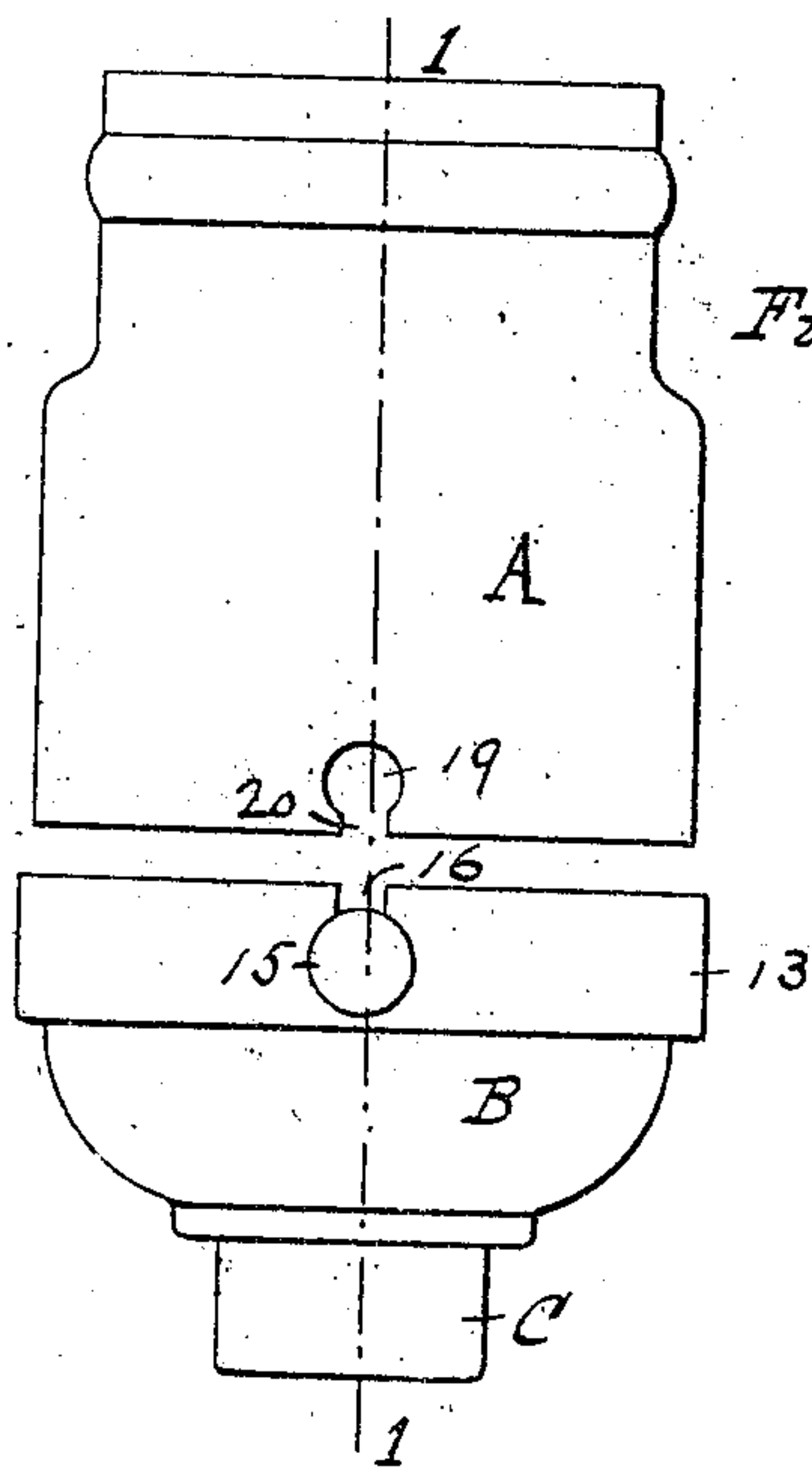


Fig. 1.

Fig. 2.

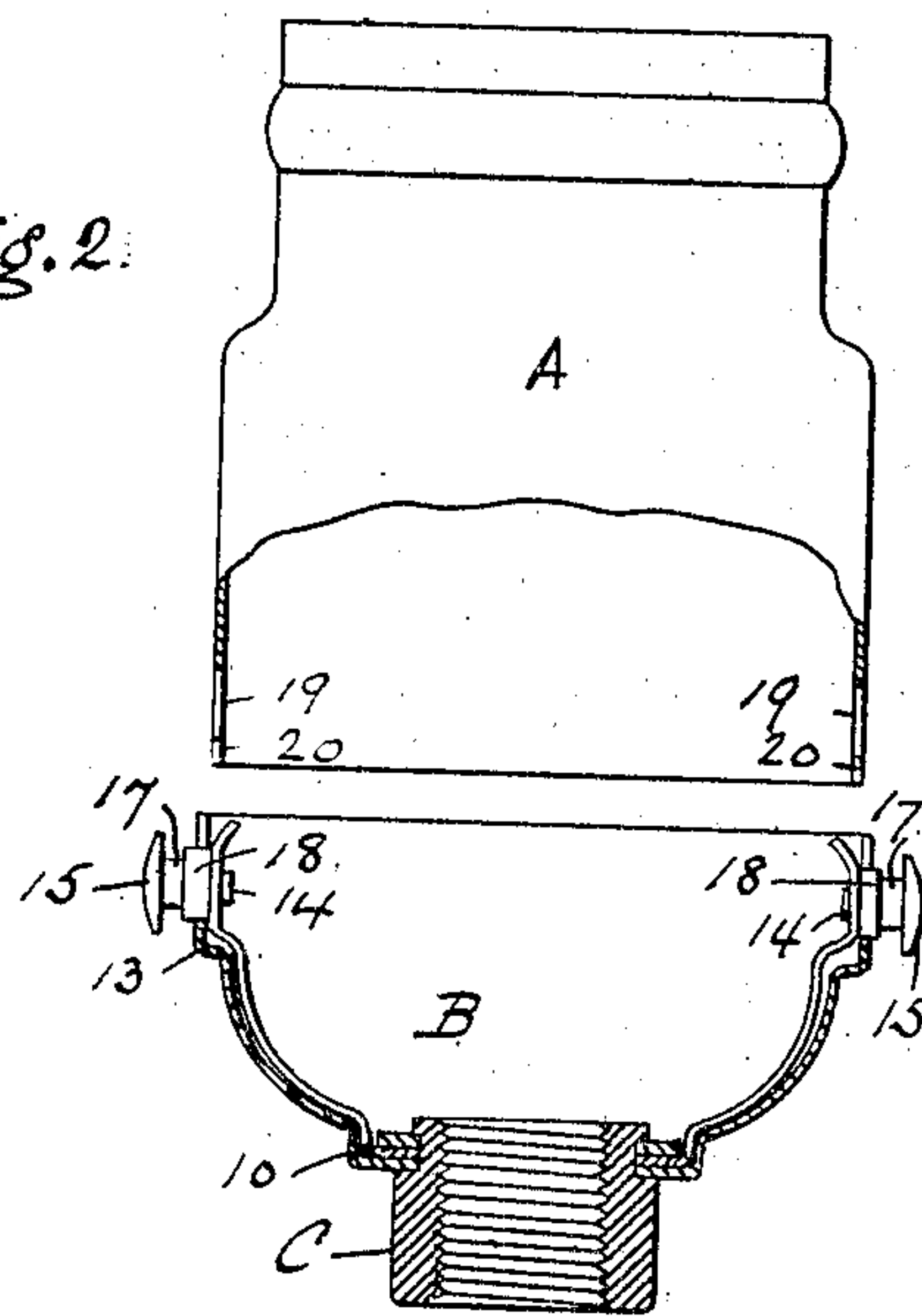


Fig. 3.

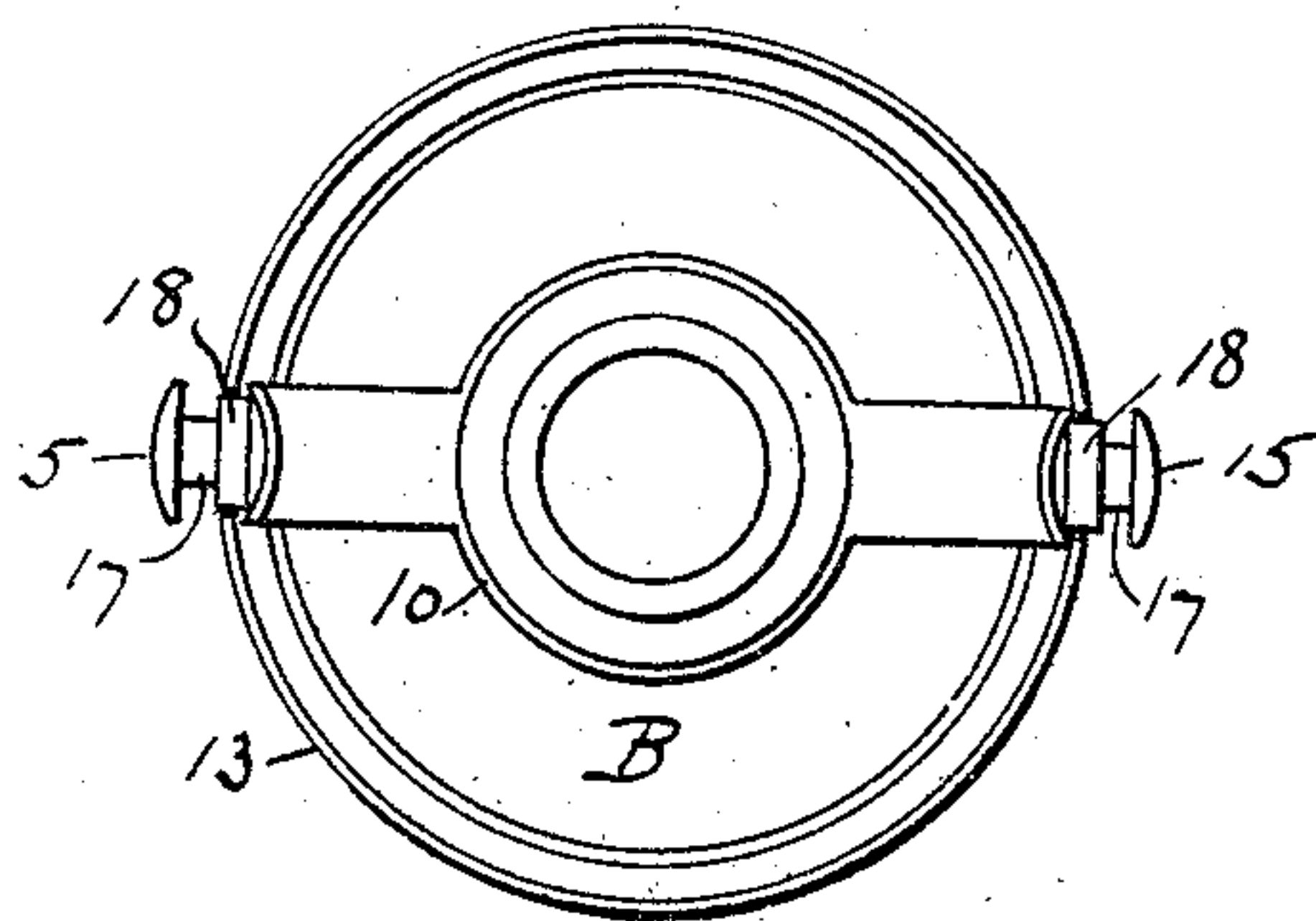


Fig. 4.

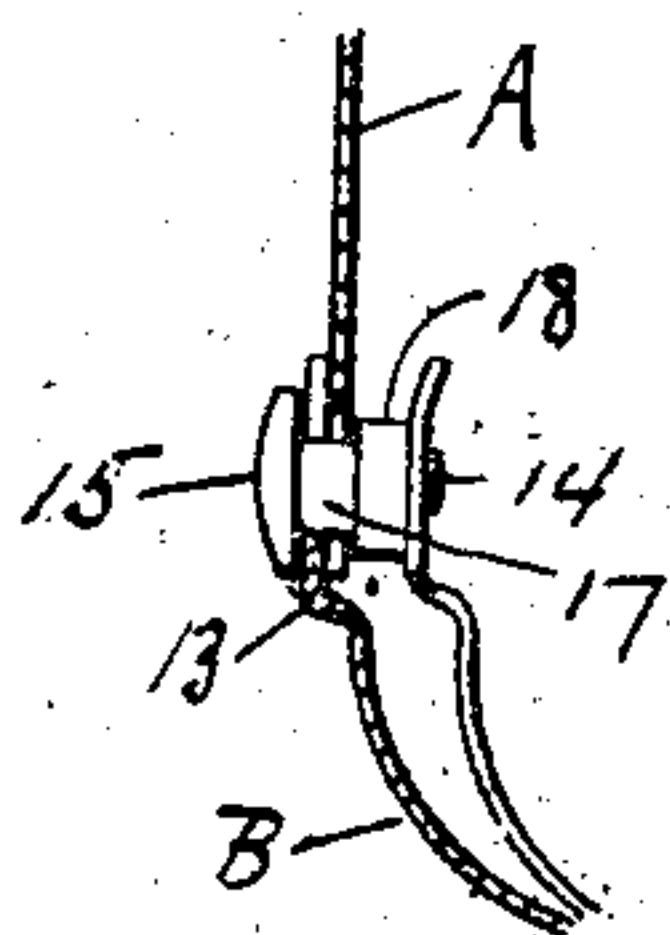
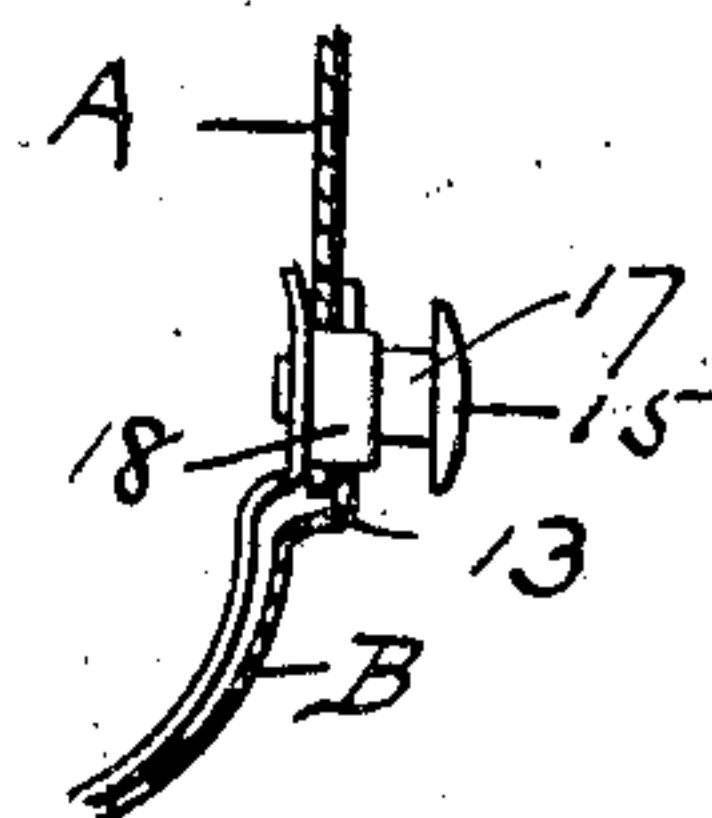


Fig. 5.



WITNESSES

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GILBERT W. GOODRIDGE, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO
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CONSTRUCTION OF INCANDESCENT-ELECTRIC-LAMP SOCKETS.

No. 837,054.

Specification of Letters Patent.

Patented Nov. 27, 1906.

Application filed April 9, 1906. Serial No. 810,864.

To all whom it may concern:

Be it known that I, GILBERT W. GOODRIDGE, a citizen of the United States of America, residing in Bridgeport, county of Fairfield, and State of Connecticut, have invented certain new and useful Improvements in the Construction of Incandescent-Electric-Lamp Sockets and the Like, of which the following is a specification.

My invention relates to the construction of incandescent-electric-lamp sockets and the like, and the object of my invention is to provide a means whereby the cap and shell may be more readily attached together and detached than in those constructions in which screw fastening means are employed, and yet so that there will be no danger of the two parts becoming accidentally or unintentionally detached from each other.

In the accompanying drawings, Figure 1 is a side elevation, drawn to an enlarged scale, of the shell and cap detached from each other. Fig. 2 is a section on the line 1 1, Fig. 1. Fig. 3 is a view of the inner face of the cap, and Figs. 4 and 5 are views showing the action of the spring-latch.

While my invention may be applied to different devices in which a sheet-metal shell is to be attached to a cap or base part, it is here shown and is more particularly intended for use in electric-lamp sockets having sheet-metal inclosing casings consisting of shells and caps which have to be made attachable and detachable from each other.

A is the sheet-metal shell, and B is the cap, provided with the usual threaded nipple C. I secure to the cap by means of this nipple or otherwise a yoke 10 with elastic arms, the outer ends of which lie adjacent to the inner face of flange 13 of the cap. To the outer ends of these elastic arms I secure shouldered pins 14 with enlarged buttons or heads 15 outside the cap of a suitable size to be acted on by the finger or thumb to press the elastic arms inwardly in the cap. These shouldered pins, which project through suitable openings or notches 16 in the flange of the cap, each have a part 18 of relatively large diameter adjacent to the spring-arm which carries it and a part of relatively small diameter 17 at the button end of the pin. On

that edge of the pin which is to fit within the flange of the cap I form notches 19 of the form best seen in Fig. 1—that is, each contracted at 20 at the mouth of the notch, so as to be just of sufficient size to pass over the contracted part 17 of the pin; but at the back of this contracted part the notch is made of sufficient width or diameter to let the part 18 of the pin enter. Thus when the parts are to be put together the person puts his finger and thumb on the opposite push-pins to press both spring-fingers inwardly to the position indicated in Fig. 4, and then the shell is pushed down into the cap, the contracted part of the notch 19 slipping over and beyond the part 17 of the push-pin which is of smaller diameter. Then when the shell has been pushed home the pressure on the spring-arms is released and those arms spring outwardly again to the position indicated in Fig. 5, with the parts 18 of the pins of larger diameter entering the enlarged parts of the notches 19 in the shell and engaging with the contracted edges 20 of the notches, so as to firmly hold the shell in place. When the shell is to be taken off again, it can be quickly done by simply pressing on the opposite buttons and drawing the shell out.

I claim as my invention—

1. An incandescent-lamp socket, having a cap and shell to be detachably connected, one of said parts having spring-arms with radial pins, each with an external push-button and a stem of two diameters, the other part having notches contracted at the edges substantially as described.

2. An incandescent-lamp socket, having a cap and shell to be detachably connected, the cap having spring-arms with radial pins, each with an external push-button and a stem of two different diameters, and the shell having notches contracted at their outer edges to cooperate with said pins.

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

GILBERT W. GOODRIDGE.

Witnesses:

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