

No. 661,332.

W. R. WHITEHEAD.
LAMP.

Patented Nov. 6, 1900.

(Application filed Nov. 21, 1899.)

(No Model.)

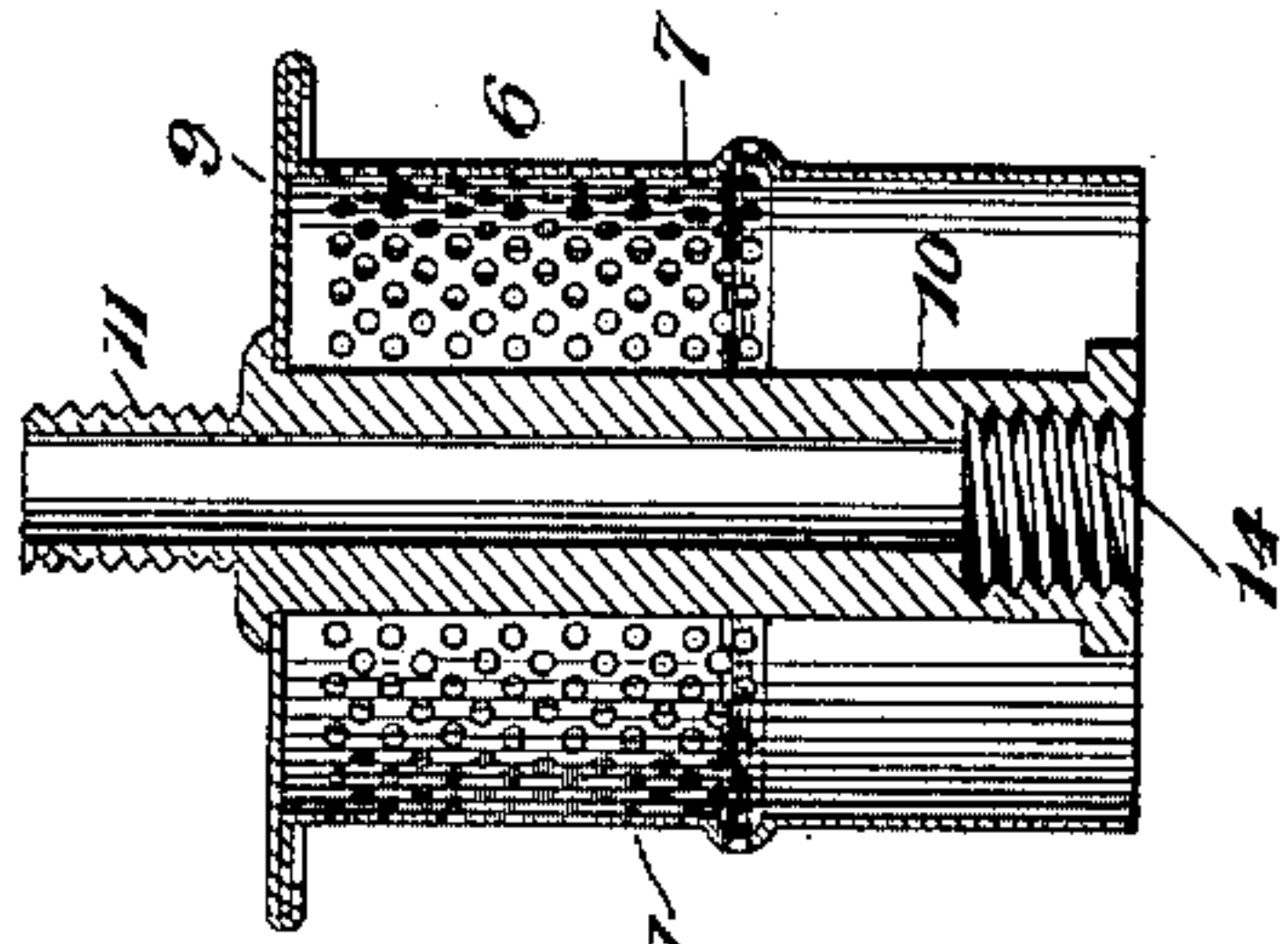


Fig. 3.

Fig. 5.

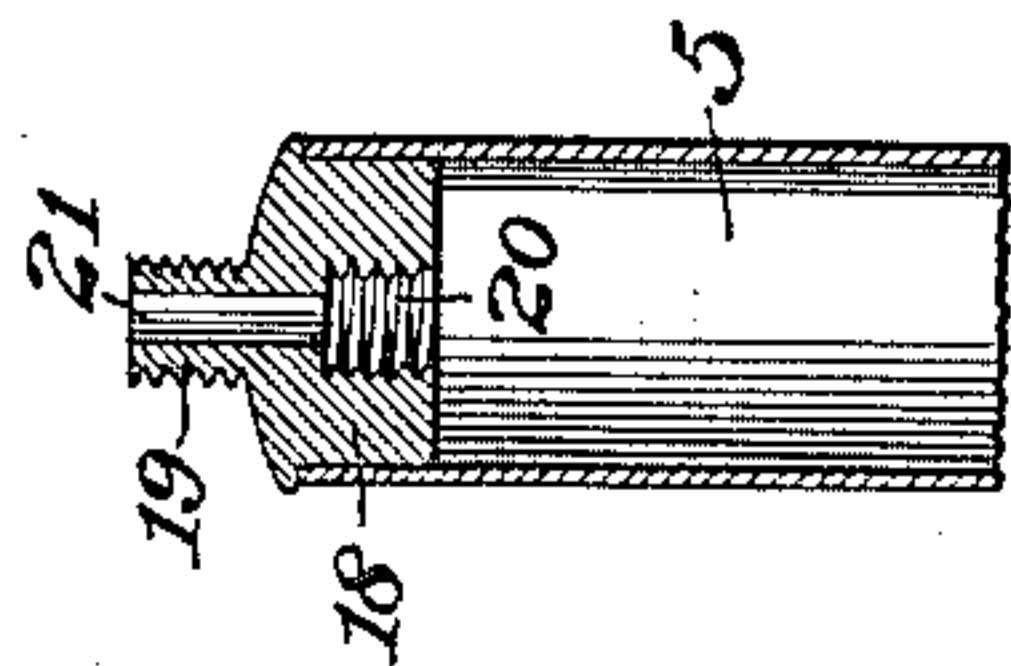


Fig. 4.

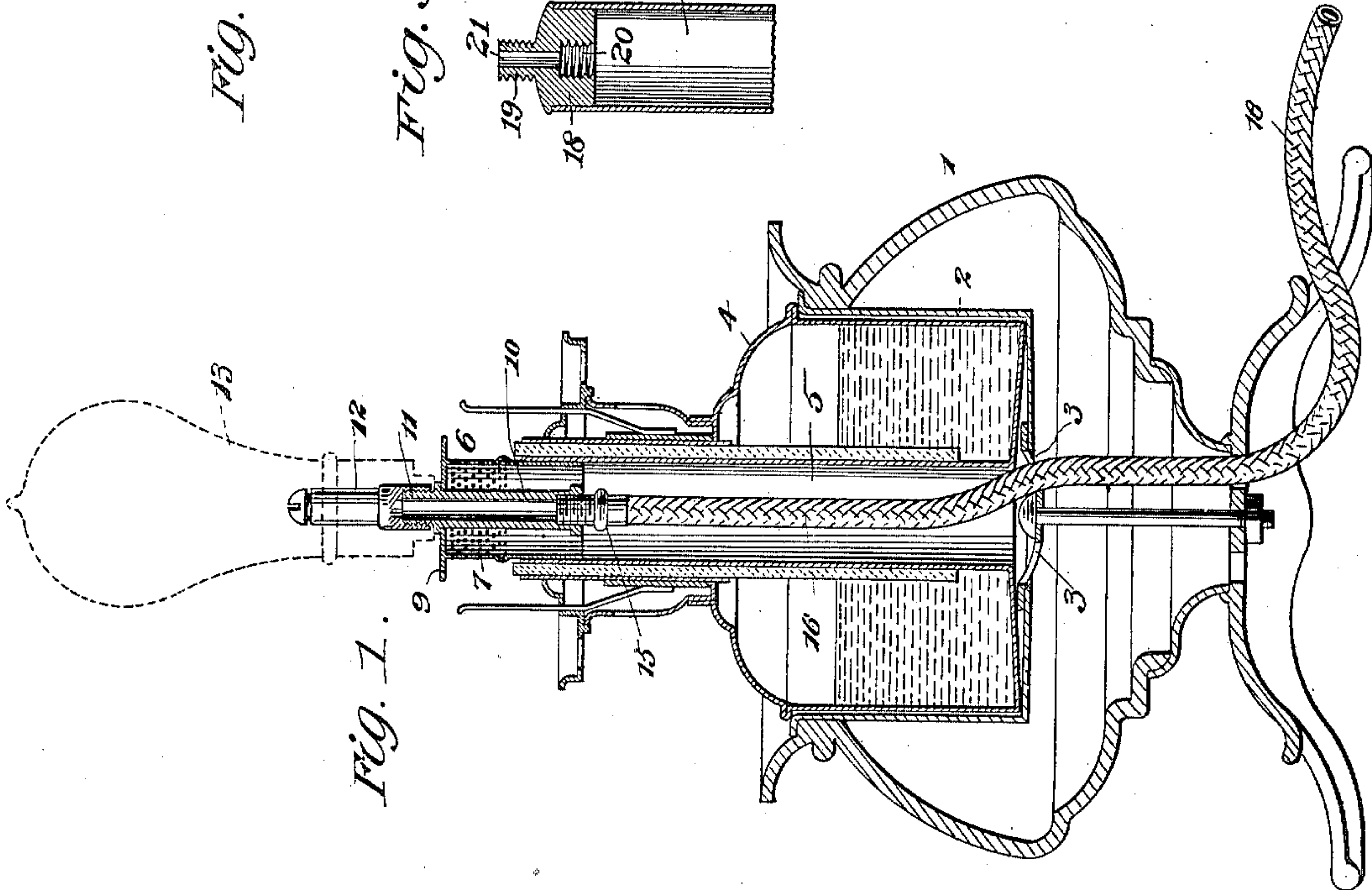
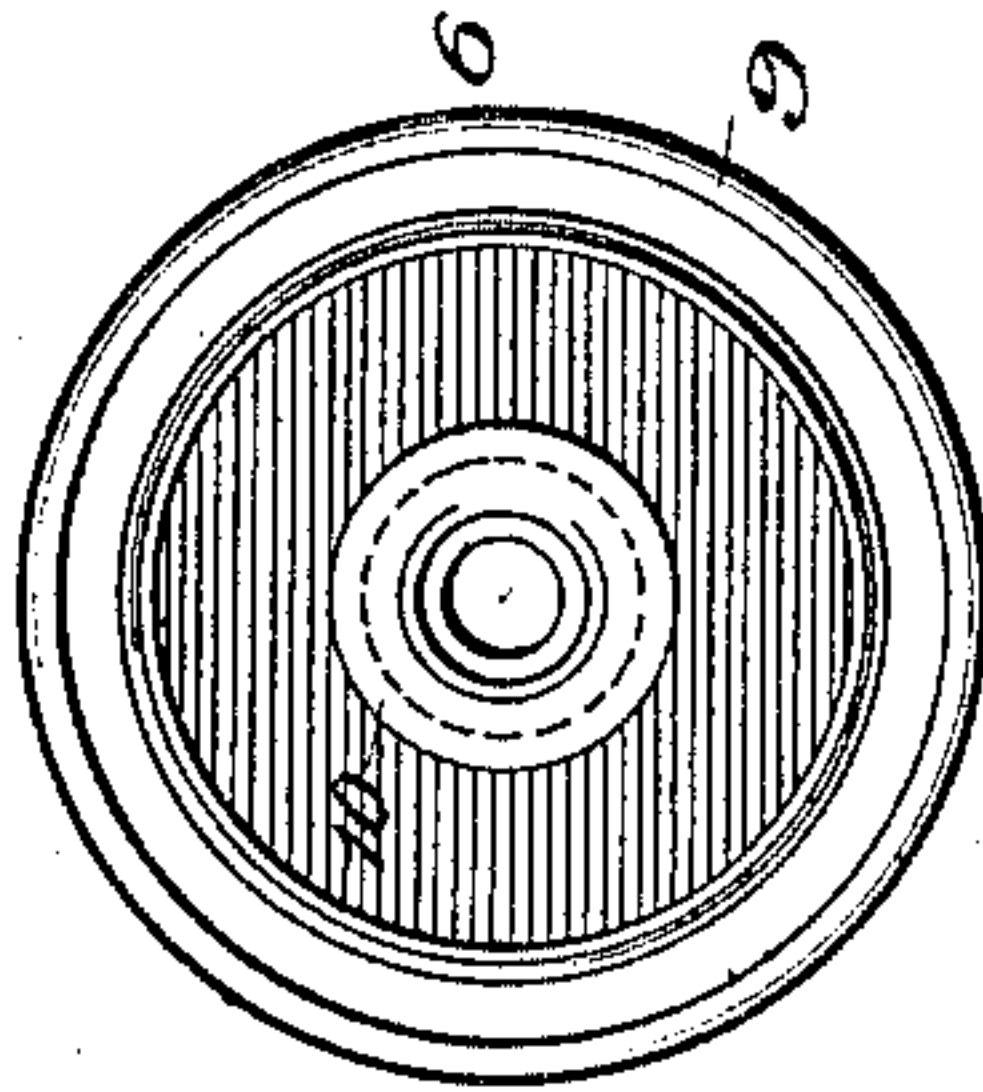
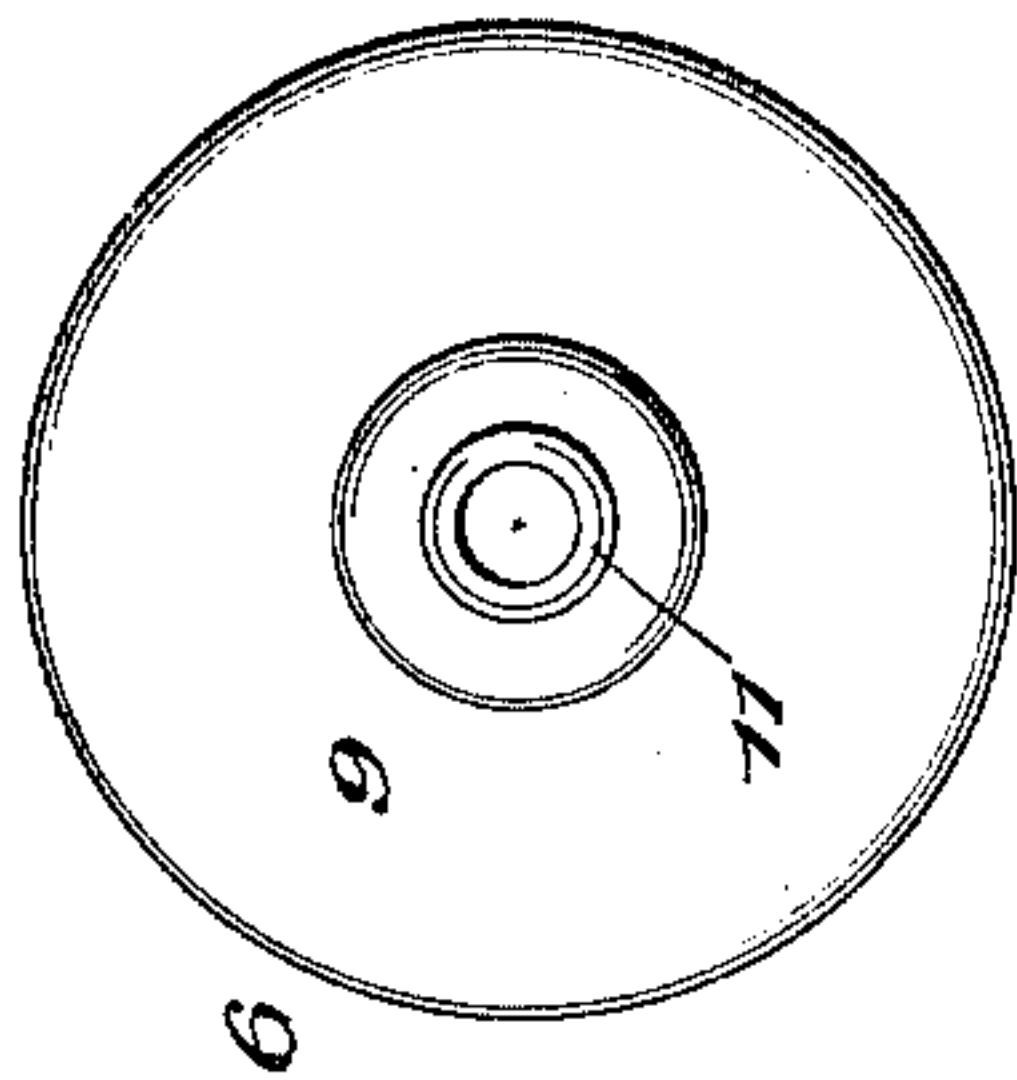


Fig. 1.

Fig. 2.



WITNESSES:

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WILLIAM R. WHITEHEAD, OF TRENTON, NEW JERSEY, ASSIGNOR TO THE
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LAMP.

SPECIFICATION forming part of Letters Patent No. 661,332, dated November 6, 1900.

Application filed November 21, 1899. Serial No. 737,748. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM R. WHITEHEAD, a citizen of the United States, and a resident of Trenton, Mercer county, State of New Jersey, have invented a certain new and useful Improvement in Lamps, of which the following is a specification, reference being had to the accompanying drawings, forming part thereof.

My invention relates to an improvement in central-draft oil-lamps, and has for its object to provide a simple and inexpensive means whereby such lamps may be adapted for the use of either gas or electricity.

With this end in view my invention consists in the construction and arrangement of parts, as hereinafter set forth in detail and pointed out in the claims.

Referring to the drawings, Figure 1 is a central vertical section through a lamp embodying my invention, also showing in connection therewith a gas-burner and gas-supply tube in full lines and an incandescent-light bulb in dotted lines. Fig. 2 is an enlarged top view of the flame-spreader detached from the lamp. Fig. 3 is a central vertical section through such flame-spreader. Fig. 4 is a bottom view of the same, and Fig. 5 is a detail view illustrating a modified form of my invention.

To explain in detail, the bowl or body 1 of the lamp, the oil-fount chamber 2, having openings 3 in its lower wall, and the oil-fount 4, having the central draft-tube 5, are of usual construction and arrangement, as found in the ordinary central-draft oil-lamp. Removably seated in the upper end of the central draft-tube 5 is the usual flame-spreader 6, which latter consists of the perforated tubular piece 7, adapted to fit within the upper end of the draft-tube 5, and having a top or cap piece 9 closing its upper end. According to my invention I provide this flame-spreader device with a short vertically-arranged tube 10, which passes centrally through its top or cap piece 9 and is brazed or otherwise secured in fixed connection therewith. The upper projecting end 11 of this tube 10 is screw-threaded for the detachable connection therewith of either a gas-burner 12, as indicated in full lines in Fig. 1, or an incan-

descent-light bulb or burner 13, as indicated in dotted lines, and the lower end of said tube 10, which preferably extends to a point about in line with the lower end of the flame-spreader, as shown, is provided with an internal screw-thread 14 to provide for the detachable connection therewith of a coupling 15 on the end of a gas-tube 16. The opposite ends of the tube 10 may, however, in lieu of being provided with screw-threads for the connection therewith of the parts as described be constructed in any other suitable manner to provide for the detachable connection therewith of the burners and gas-tube without departure from my invention.

In adapting the lamp for the use of gas the flame-spreader is first removed from the upper end of the draft-tube 5, and the flexible gas-tube 16, which connects with the regular gas-fixture in the room or other suitable source of supply, is then passed under the base of the lamp and up through the central draft-tube 5 to have its coupling 15 screwed into connection with the lower end of the tube 10. After such connection has been made between the gas-tube 16 and the tube 10 the flame-spreader is then again seated in the upper end of the central draft-tube 5, after which the burner may be placed in connection therewith. By means of such described construction and arrangement of parts the lamp may be readily adapted for the use of gas in a few moments time and without requiring the change or substitution of any of its parts. In other words, the lamp might, if so desired, be used for both oil and gas or electricity at the same time.

In adapting the lamp for the use of electricity the current-wire is passed beneath the base of the lamp and up through the draft-tube 5 and the spreader-tube 10 to the bulb or burner 13, which latter is connected with the projecting end 11 of said tube 10.

Referring to Fig. 5, I have illustrated a modified form of my invention. In this instance I have provided a cast disk 18, which is adapted to removably fit within the upper end of the central draft-tube 5 in lieu of the regular flame-spreader and is provided with a threaded nipple 19 on its upper side for the connection therewith of a gas-burner or an

incandescent-light burner and with a female or internal screw-thread 20 at the lower end of its opening 21 for the connection therewith of the supply-tube, this disk, constructed as
5 described, being adapted to be manipulated for the connection therewith of the burners and supply-tube or the passage therethrough of the electric wire in the same manner as before described relative to the flame-spreader.

10 Although I have shown an ordinary gas-burner in connection with my improved lamp, it will of course be understood that any form of burner may be used in connection with the same, a Welsbach burner being particularly
15 applicable.

Having thus set forth my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a central-draft lamp, the combination,
20 with the central draft-tube, of a device for removable connection with the upper end of said draft-tube, having an opening extending therethrough and provided with means at its upper end for the detachable connection
25 therewith of a burner, for the purpose set forth.

2. In a central-draft lamp, the combination,
30 with the central draft-tube, of a flame-spreader, removably connected with the upper end of said tube, provided with a tube connected therewith and extending through its top or cap piece, the upper projecting end of said tube being adapted for the detachable connection therewith of a burner.

3. In a central-draft lamp, the combination, 35
with the central draft-tube, of a flame-spreader, removably connected with the upper end of the tube, provided with a vertically-arranged tube extending through its top or cap piece and being rigidly connected 40
therewith, the opposite ends of said tube being adapted for the detachable connection therewith of a burner and gas-tube respectively.

4. A flame-spreader for central-draft oil-lamps, provided with a tube connected therewith and extending through one wall thereof, the exterior projecting end of said tube being adapted for the detachable connection therewith of a burner. 50

5. A flame-spreader for central-draft oil-lamps, provided with an opening extending therethrough and having means adjacent to the upper end of said opening for the connection therewith of a burner, for the purpose 55
set forth.

6. A central-draft oil-lamp provided with a central draft-tube having a cap or device adjacent to its upper end which is provided with an opening extending therethrough and with 60
means adjacent to the upper end of said opening for the connection therewith of a burner, for the purpose set forth.

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Witnesses:

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