

No. 712,551.

Patented Nov. 4, 1902.

A. KUSEBAUCH.
ELECTRIC LAMP.

(Application filed Mar. 21, 1902.)

(No Model.)

Fig. 1.

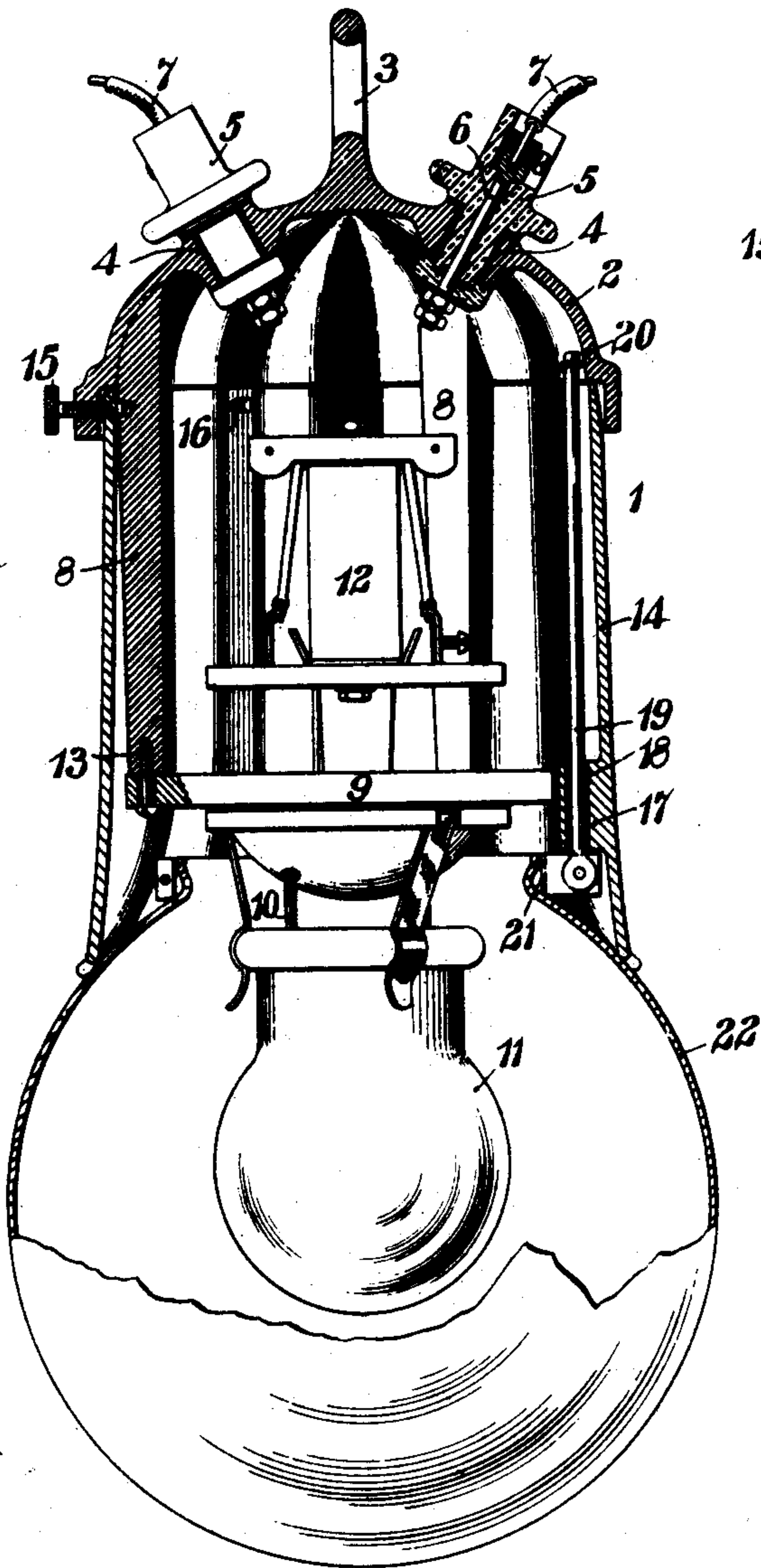


Fig. 2.

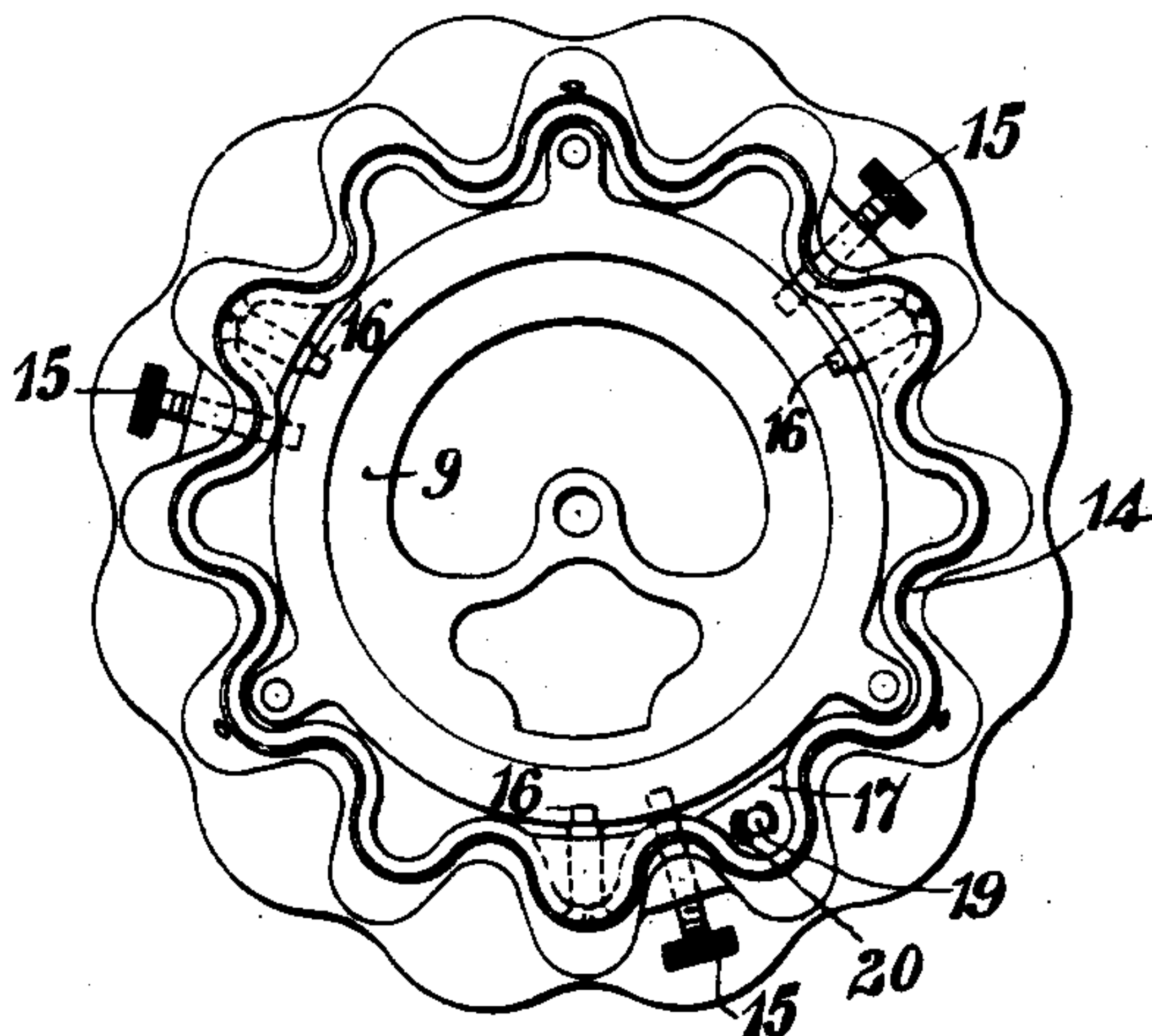
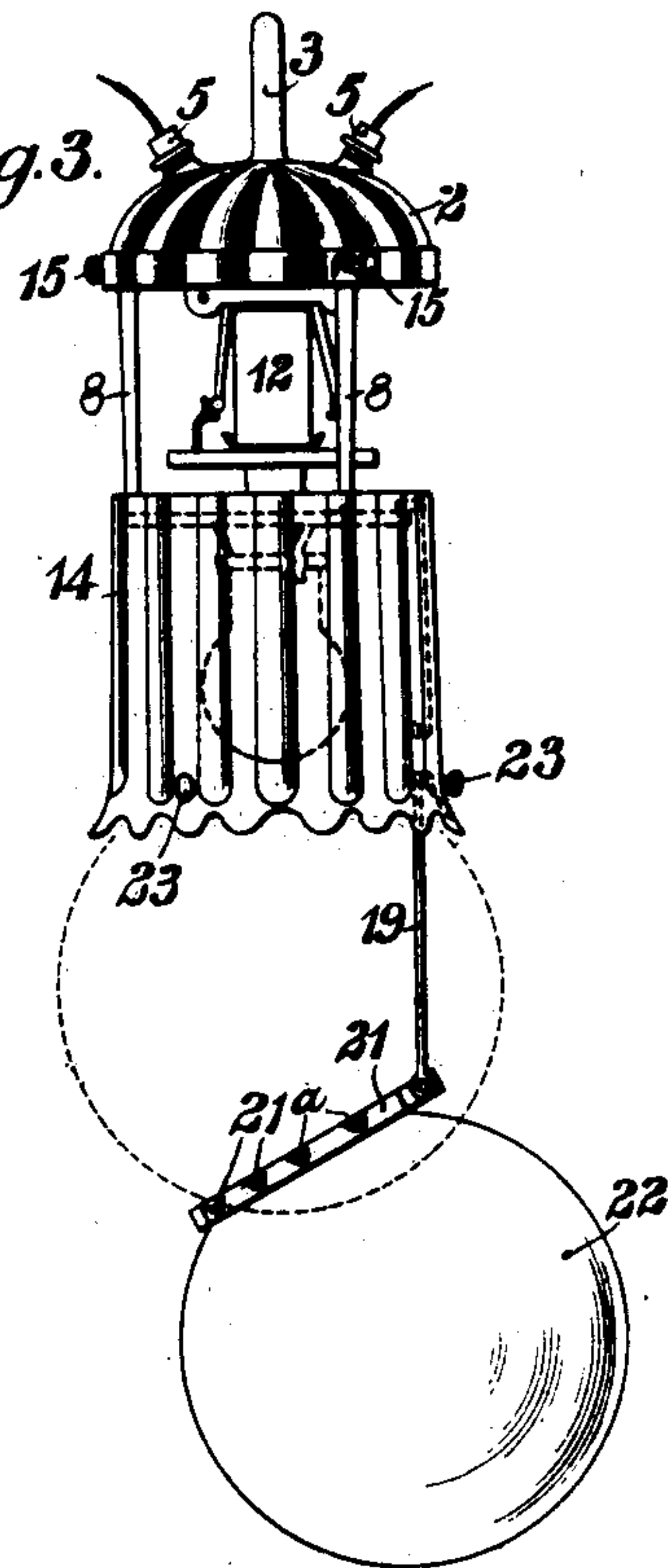


Fig. 3.



WITNESSES:

C. L. Belcher
J. C. Morse.

INVENTOR

Anton Kusebauch
BY
H. L. L. L. L.
ATTORNEY

UNITED STATES PATENT OFFICE.

ANTON KUSEBAUCH, OF EDGEWOOD PARK, PENNSYLVANIA, ASSIGNOR TO
GEORGE WESTINGHOUSE, OF PITTSBURG, PENNSYLVANIA.

ELECTRIC LAMP.

SPECIFICATION forming part of Letters Patent No. 712,551, dated November 4, 1902.

Application filed March 21, 1902. Serial No. 99,244. (No model.)

To all whom it may concern:

Be it known that I, ANTON KUSEBAUCH, a citizen of the United States, and a resident of Edgewood Park, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Electric Lamps, (Case No. 1,041,) of which the following is a specification.

My invention relates to electric lamps, and more particularly to housings for lamps of the type in which the light-giving members, usually termed "glowers," are conductors of electricity only when heated to comparatively high temperatures, though not necessarily restricted to lamps of this specific type.

The object of my invention is to provide a housing which shall be weatherproof and have a large amount of radiating-surface and also one which will permit of inspecting and repairing the operating parts of the lamps and also the removal and replacement of certain parts of the lamp structure without interfering with or removing the lamp structure as a whole from its operative suspended position.

A further object of the invention is to provide a simple and efficient means whereby the globe which surrounds the glowers and heaters may be lowered with reference to that portion of the housing upon which it is supported and swung away from the parts inclosed by it in order that such attention as may be necessary may be given to said parts.

My invention is illustrated in the accompanying drawings, in which—

Figure 1 is a longitudinal section of the housing and a portion of the globe, the operating parts of the lamp, so far as shown, and the remainder of the globe being shown in side elevation. Fig. 2 is a plan view of the cylindrical body portion of the housing, the operating parts of the lamp, except the base-plate or ring upon which they are supported, being removed. Fig. 3 is a side elevation of the lamp shown in Figs. 1 and 2, but drawn to a smaller scale and showing the cylindrical portion of the housing and the globe in their lowered positions.

The details of construction, as illustrated in the drawings, are as follows: The upper

portion of the housing 1 is in the form of a dome-shaped metal cap 2, which is corrugated, as indicated, in order to provide a maximum amount of radiating-surface, and has a ring 3, by means of which the lamp is suspended in operative position. The cap 2 is also provided with two holes 4, in which are fitted bushings 5, of porcelain or other suitable insulating and weatherproof material, which are perforated to receive conducting-rods 6, the supply-conductors 7 being connected to the outer ends of these rods and the glower and heater-wires (not shown) being connected to the inner ends of these rods.

The cap 2 is provided with a plurality of depending arms 8, three being employed in the lamp here shown, and this is a suitable number and all that will generally be found necessary, although any other number may obviously be employed if desired. The base-plate 9 for supporting the glower and heater-holder 10, the inner globe 11, the cut-out 12, and the ballast devices (not shown) is fastened to the lower ends of the arms 8 by means of screws 13, as indicated in Figs. 1 and 2.

The body portion 14 of the housing, which is of general cylindrical form, is also corrugated for the purposes of heat radiation and is fastened to the upper ends of the arms 8 by means of screws 15. The body portion 14 is also provided adjacent to its upper end with inwardly-projecting pins 16, (here indicated as screws;) but the particular form of these pins is obviously immaterial so long as they project a proper distance into the interior of the housing and are all in substantially the same horizontal plane. The body portion 14 of the housing is also provided near its lower end with a boss 17, having a vertical hole 18, through which projects a rod 19, the upper end of the rod being provided with a suitable projection, (here shown as a cotter-pin 20.) The lower end of the rod has a hinge connection with a metal band 21, with which the neck of the globe 22 is provided. The globe is held in operative position by means of screws 23, three being shown in the drawings, which are supported by the body portion 14 of the housing and the inner ends of which

engage with notches 21^a, formed by lips cut from the metal band 21, thus providing an elastic support for the globe.

It will be seen by reference to Figs. 1 and 3 of the drawings that when it is desired to gain access to the operating parts of the lamp for the purpose of investigation or repairs or for replacement of any of the parts the body portion of the housing may be released from the cap by withdrawing the screws 15, and the said body portion may then be lowered until the pins 16 engage the upper surface of the base-plate 9, thus preventing further lowering of this part of the housing. Access is thus given to the operating portions of the lamp which are supported upon and above the base-plate 9.

If it is desired to inspect or repair the parts which are located below the base-plate 9, the screws 23 may be withdrawn from the notches in the metal band 21, and the globe 22 may then be lowered bodily until the pin 20 in the upper end of the rod 19 engages with the upper side of the boss 17. The globe may then be swung to one side upon its hinge, as indicated in Fig. 3. It will thus be seen that ready access is secured to all parts of the lamp and that when the parts are in operative position, as indicated in Fig. 1, the housing is substantially weatherproof, and is thus particularly well adapted for outdoor service.

Modifications in details of construction may obviously be made without departing from the invention, and I therefore desire it to be understood that no limitations are to be imposed except such are imposed by the prior art or specified in the claims.

I claim as my invention—

1. An electric-lamp housing comprising a cap having extensions for supporting the operating parts of the lamp, a longitudinally-movable body portion supported by said extensions and having stop-pieces, and adjustable means for fastening the body portion to the cap extensions and releasing the same.

2. An electric-lamp housing comprising a cap having depending arms for supporting the operating parts of the lamp and a body portion detachably fastened to said cap and having supporting-stops which come into action when said body portion has been moved a predetermined distance away from the cap, in combination with a globe, a guide having a sliding connection with the body portion of the housing and provided with a limiting-stop at its upper end and a hinge connection with the globe at its lower end.

3. An electric-lamp housing comprising a corrugated cap from which the operating parts of the lamp are suspended and a corrugated body portion attached to said cap and longitudinally movable with reference thereto, in combination with a globe and a rod to which said globe is hinged, said rod being supported by the body portion of the housing and movable longitudinally with reference thereto.

4. An opaque, weatherproof housing for

the operating mechanism of an electric lamp comprising a cap having holes containing insulating-bushings for the circuit-wires, a body portion movable a limited distance longitudinally with reference to said cap, adjustable means for fastening said parts together and means for supporting said body portion in its lowered position.

5. An electric-lamp housing comprising a cap having depending arms, a base-plate fastened to the lower ends of said arms and a longitudinally-movable body portion detachably fastened to said cap and having projections adapted to engage said base-plate when in its lowered position.

6. An electric-lamp housing comprising a cap and a body portion detachably fastened thereto and provided with a perforated lug, in combination with a globe and a rod hinged to said globe and projecting upwardly through the aperture in said lug.

7. An electric-lamp housing comprising a cap, a depending body portion detachably supported by said cap and movable a limited distance with reference thereto, in combination with a globe having a metal band at its upper end and a rod hinged to said band and having a sliding engagement with said body portion.

8. An electric-lamp housing comprising a corrugated and approximately cylindrical body portion and a cap upon which said body portion is mounted so as to be longitudinally movable, in combination with a globe, means for supporting the said globe upon the body portion and means for permitting movement of said globe for a limited distance away from the body portion of the housing.

9. An electric-lamp housing comprising a dome-shaped cap, a downwardly-movable body portion adjustably attached thereto, and means for guiding and limiting the movement of said body portion, in combination with a globe, adjustable means for fastening the globe to the body portion and means for guiding and limiting the movement of said globe when said fastening means are adjusted to releasing position.

10. A housing for electric lamps comprising a corrugated, cylindrical body portion, a corrugated, dome-shaped cap, adjustable means for connecting said parts together and means for limiting the downward movement of the body portion when released, in combination with a globe, adjustable means for fastening the same to the body portion and means for guiding and limiting the downward movement of the globe when released.

11. An electric-lamp housing comprising a cap having extensions for supporting the operating parts of the lamp, a longitudinally-movable body portion supported by said extensions and having stop-pieces and adjustable fastening and releasing means for said body portion, in combination with a globe having a drop connection with said body portion.

12. An electric-lamp housing comprising a cap and a body portion supported thereby and longitudinally movable with reference thereto, in combination with a globe, adjustable means for fastening the globe to the body portion and means for permitting movement of said globe for a limited distance away from the said body portion.

13. An electric-lamp housing comprising a cap having means for attaching it to a suitable support and a body portion adjustably supported by said cap, in combination with a globe and an extensible connection between the globe and body portion to which the globe is hinged.

14. An electric-lamp housing comprising a cap having insulating-bushings for leading-in wires and a longitudinally-movable body portion having stops to limit said movement, in

combination with a globe, and a longitudinally-movable connecting device between the globe and the body portion to which the globe is hinged.

15. An electric-lamp housing comprising a cap having a supporting device and insulating-bushings for leading-in wires, and a body portion having stop-pieces and being longitudinally movable with reference to said cap, in combination with a globe, and a longitudinally-movable connecting device between the globe and the body portion of the housing to which the globe is hinged.

In testimony whereof I have hereunto subscribed my name this 18th day of March, 1902.

ANTON KUSEBAUCH.

Witnesses:

H. A. CROOK,

A. G. WIRTZ.