

W. F. PERSONS.  
LAMP.

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986,590.

Patented Mar. 14, 1911.

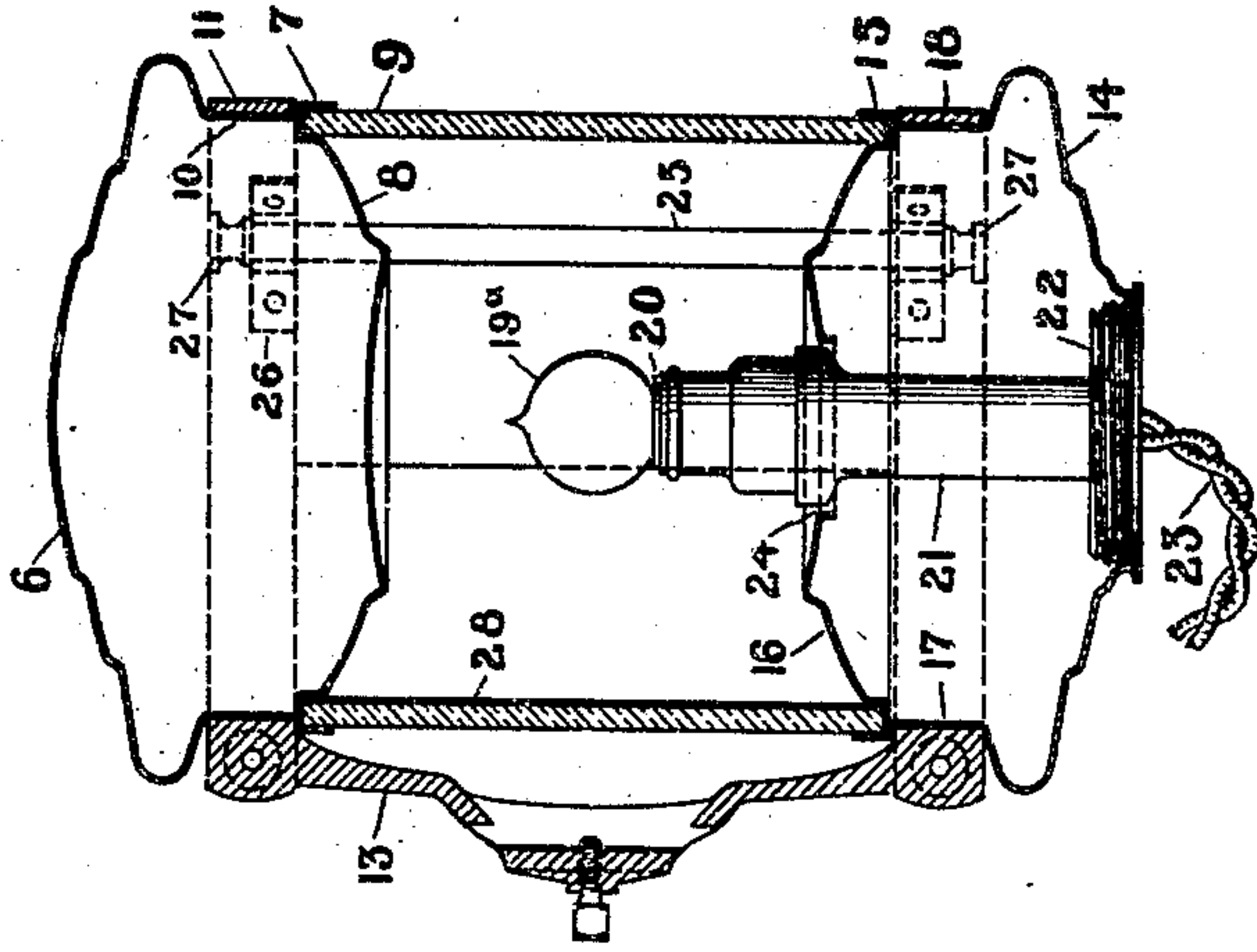


FIG. 2.

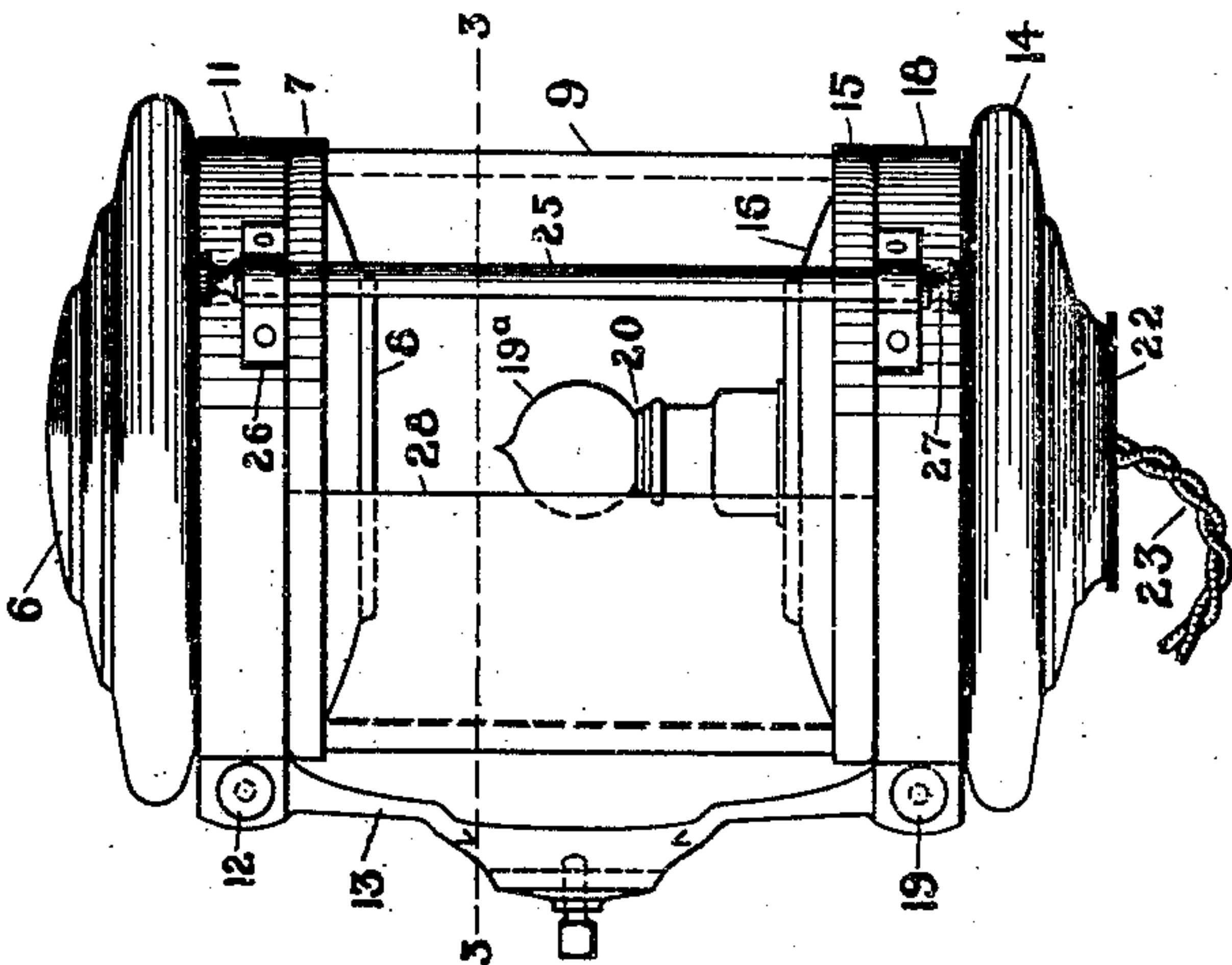


FIG. 1.

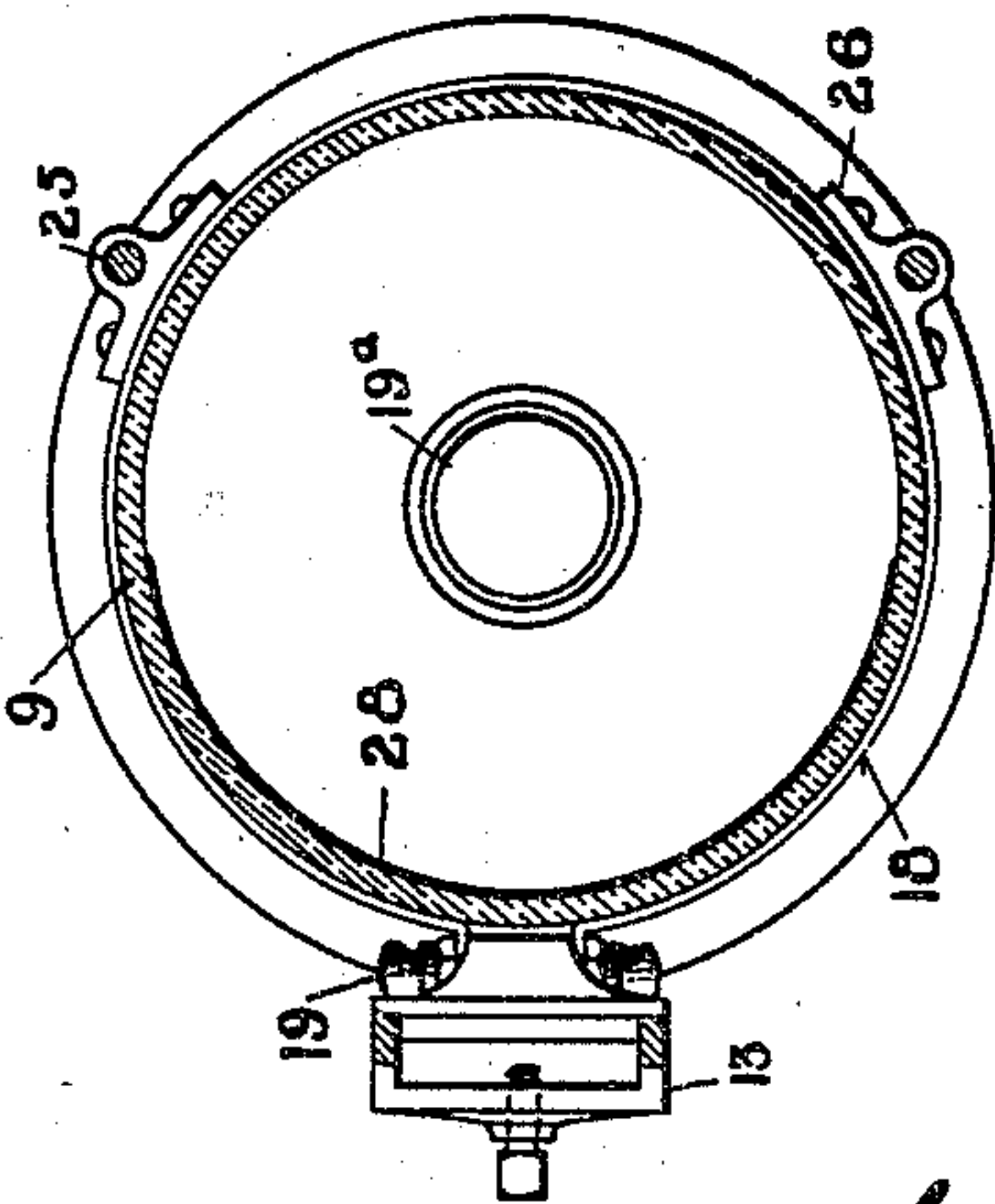


FIG. 3.

Witnesses

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# UNITED STATES PATENT OFFICE.

WILLIAM F. PERSONS, OF CLEVELAND, OHIO.

## LAMP.

986,590.

Specification of Letters Patent.

Patented Mar. 14, 1911.

Application filed October 1, 1910. Serial No. 584,914.

### *To all whom it may concern:*

Be it known that I, WILLIAM F. PERSONS, citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Lamps, of which the following is a specification.

This invention relates to lamps, particularly to a lamp adapted for use on automobiles or other vehicles.

The invention embodies particularly an improved construction of the body or frame of the lamp, embracing particularly a cylindrical glass with metal top and bottom sections connected together to hold the glass therebetween. Also an improved form of reflector; one reflector being combined with one side of the glass cylinder, and other reflectors being provided at the top and bottom of the frame, the top and bottom reflectors being somewhat conical in form. An electric lamp is held by a hollow stem extending through the bottom of the frame and through the bottom reflector, to central position in the lamp.

The invention is illustrated in the accompanying drawings in which—

Figure 1 is a side elevation of the lamp. Fig. 2 is a vertical section. Fig. 3 is a section on the line 3—3 of Fig. 1.

The top 6 of the lamp consists of a hollow sheet metal piece, pressed or spun to substantially a cup shape, which shape, however, may be varied as described. This top piece is flanged at the rim, as indicated at 7, to form a shoulder against which rests the edge of the upper reflector 8, and which also forms a support to hold the upper edge of the cylindrical glass 9 which rests against the edge of the reflector. The side of the top piece is pressed inwardly as indicated at 10 to form a neck above said flange 7 to receive an upper collar 11 the ends of which are clamped together by a screw 12 which also serves to attach the upper end of the bracket 13 by which the lamp will be mounted on a support to hold the same in position on the vehicle or other structure to which it may be applied. The bottom 14 of the lamp is similarly spun or pressed from sheet metal such as thin brass or the like, and has a flange or rabbet 15 at its upper edge to receive the outer margin of the lower reflector 16, as well as the lower edge of the glass 9, the edge of the reflector resting between the glass and the flange. Both

of the reflectors are somewhat conical in shape, so as to deflect the light outwardly through the glass of the lamp. The bottom has also a neck 17 to receive the lower collar 18 the ends of which are clamped by a screw 19 in a manner similar to that described above, which screw also serves as the means of attachment for the lower end of the bracket 13.

The electric bulb 19<sup>a</sup> screws into a socket 20 at the upper end of a tube 21 the lower end of which is provided with a screw cap 22 which screws into a threaded opening at the bottom of the lamp, and the conducting wires 23 lead through said tube to the bulb, the socket of the lamp projecting through a hole at 24 at the center of the bottom reflector 16.

The top and bottom of the lamp are clamped together, and the glass held in place, by means of rods 25 which engage lugs 26 on the upper and lower collars 11 and 18 respectively, and are fastened by nuts 27 screwed on the ends of the rods. As will be seen, this clamps the glass between the top and bottom of the lamp body and also holds the reflectors in place. Furthermore the glass 9 of the lamp may be provided around part of its inner surface with a reflector 28, conveniently formed by silvering the inside surface of the glass, this reflector being located in such position as to project the light forwardly and laterally, and being especially useful on vehicles.

A lamp so constructed is decidedly ornamental in appearance, and owing to the top and bottom and side reflectors has powerful illuminating qualities. The parts can be readily assembled or taken apart. The main parts are all held together by the screw rods 25 and the collars to which said rods are attached. The electric bulb is easily removable by unscrewing the cap 22, enabling the bulb and its supporting tube to be dropped out. The lamp is practically water and air tight. The top and bottom reflectors may be made of silvered metal or other material suitable for the purpose.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. A lamp comprising a top and a bottom, a cylindrical glass therebetween, collars clamped around said top and bottom, clamping rods connecting the said collars, and upper and lower reflectors located within the



glass and held at their edges between the ends of the glass and said top and bottom respectively.

2. A lamp comprising cupped top and bottom pieces with seats at the rims thereof, upper and lower reflectors the margins of which rest in said seats respectively, a glass located between the top and bottom pieces, the ends of said glass resting in said seats, and clamping rods connecting the top and bottom pieces.

3. A lamp frame comprising top and bottom pieces, a glass held therebetween, collars clamped around said pieces respectively, and connecting rods between the collars.

4. A lamp frame comprising top and bottom pieces, a glass held therebetween, collars clamped around said pieces respectively, and connecting rods between the collars and a bracket piece attached to said collars.

5. A lamp comprising a top and a bottom, a glass therebetween, upper and lower reflectors in the top and bottom respectively, the lower reflector and the bottom having

holes therein and an illuminator support fitting through said holes.

6. A lamp comprising a top and a bottom, a glass therebetween, upper and lower reflectors in the top and bottom respectively, the lower reflector and the bottom having holes therein, and an illuminator support fitting through said holes, a tube insertible through said holes and having a cap engaging the bottom, and an electric bulb at the inner end of the tube.

7. A lamp frame comprising top and bottom pieces connected together, a cylindrical glass clamped between said pieces and having a portion of its surface covered with reflecting material, and upper and lower conical reflectors mounted in said top and bottom pieces respectively.

In testimony whereof, I do affix my signature in presence of two witnesses.

WILLIAM F. PERSONS.

Witnesses

PAUL E. BAIRD,

STEDMAN J. ROCKWELL.