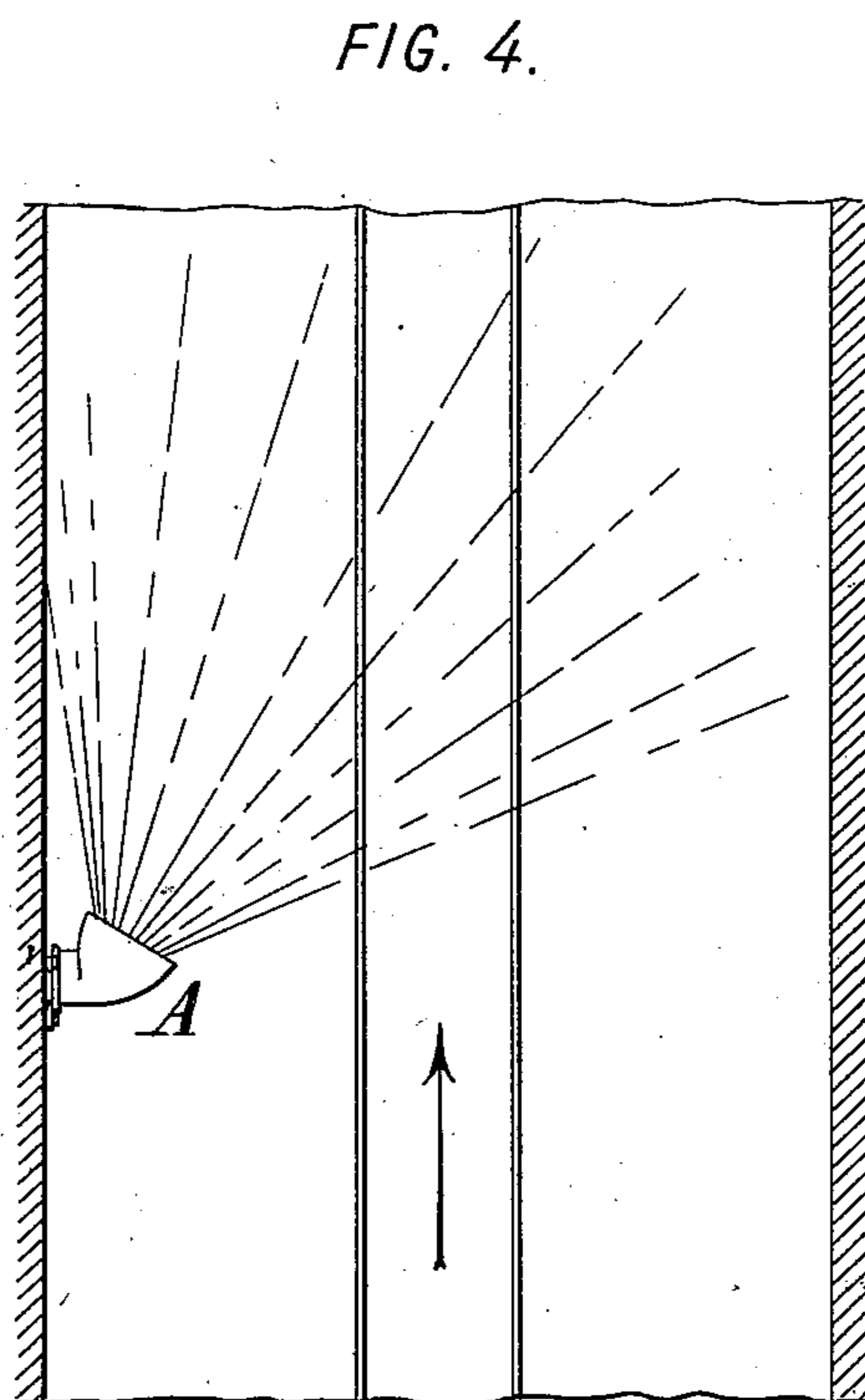
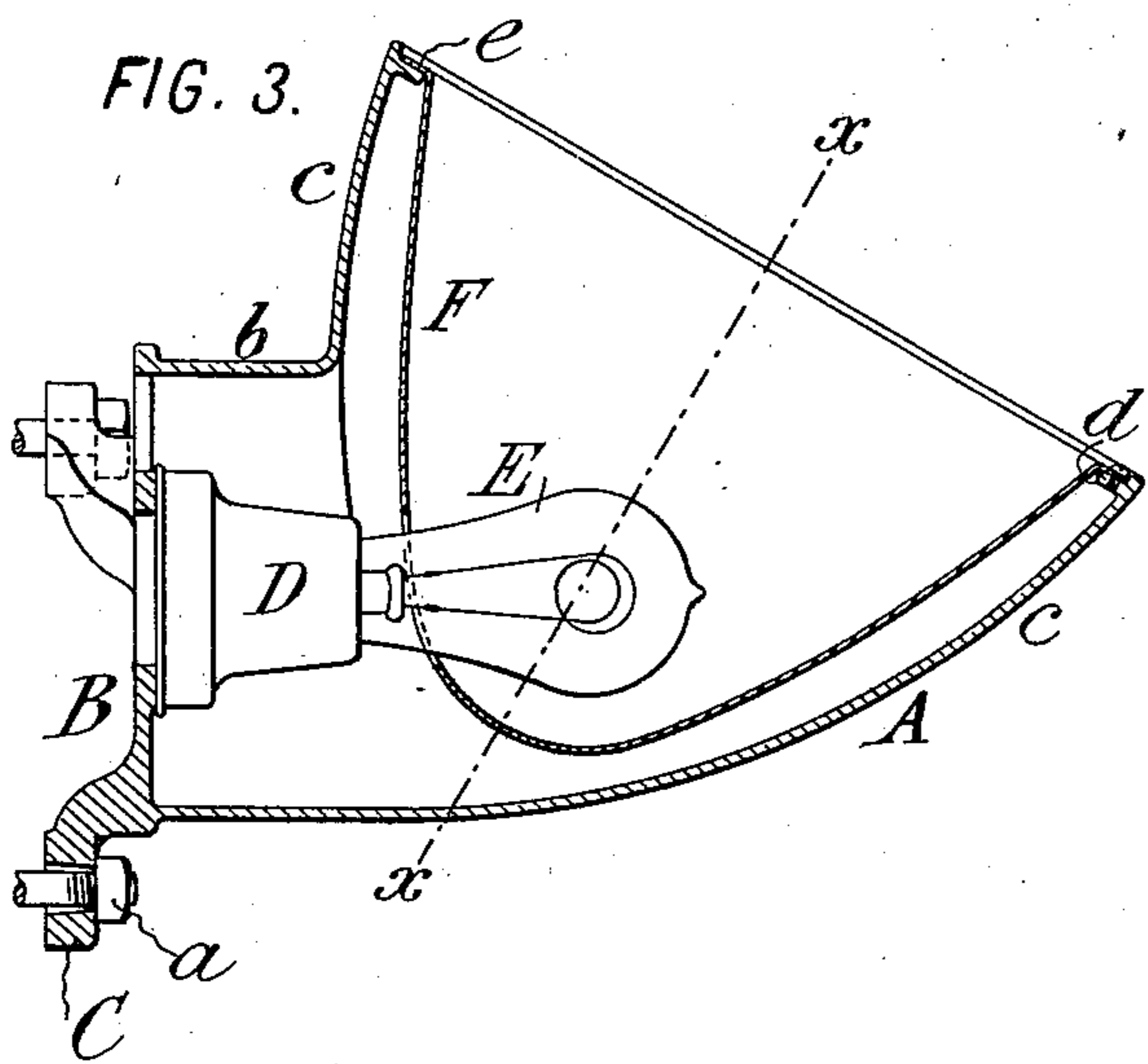
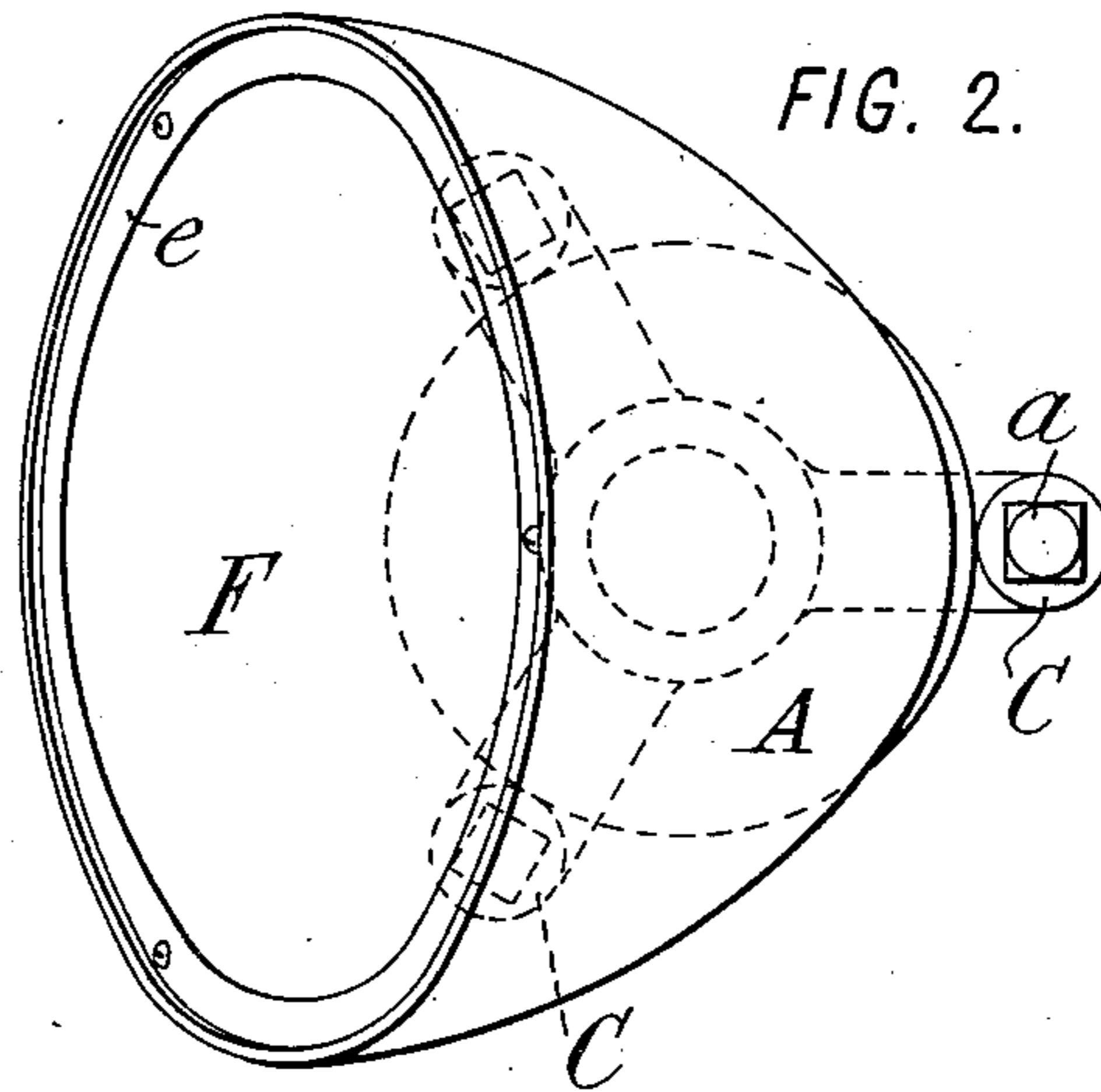
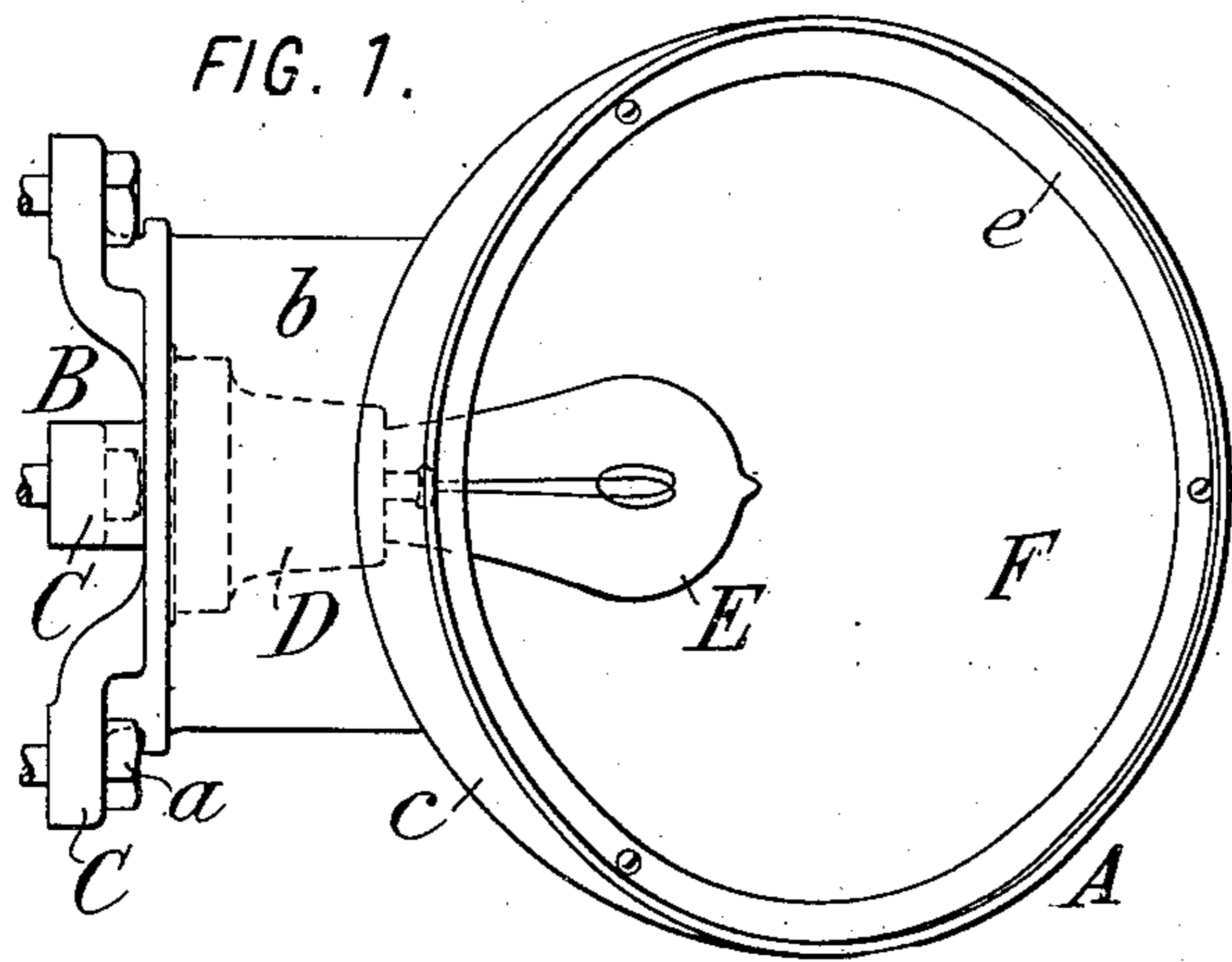


No. 735,647.

PATENTED AUG. 4, 1903.

J. J. WOOD.  
ELECTRIC LIGHT FIXTURE.  
APPLICATION FILED MAR. 14, 1903.

NO MODEL.



WITNESSES:  
*Irel White*  
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## UNITED STATES PATENT OFFICE.

JAMES J. WOOD, OF FORT WAYNE, INDIANA.

## ELECTRIC-LIGHT FIXTURE.

SPECIFICATION forming part of Letters Patent No. 735,647, dated August 4, 1903.

Application filed March 14, 1903. Serial No. 147,739. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES J. WOOD, a citizen of the United States, residing at Fort Wayne, in the county of Allen and State of Indiana, have invented certain new and useful Improvements in Electric-Light Fixtures, of which the following is a specification.

This invention relates to electric-light fixtures for use in tunnels, subways, or similar places wherever it is desired to illuminate a space by throwing light across it, while shielding the light from the eyes of one approaching in a longitudinal direction. For illuminating tunnels it is important to avoid throwing light into the eyes of the motorman or engineer of an approaching car or train.

The present invention is applicable especially for single-track tunnels.

The preferred embodiment of my invention is shown in the accompanying drawings, wherein—

Figures 1 and 2 are elevations of the fixture viewed at right angles to each other. Fig. 3 is a horizontal section thereof. Fig. 4 is a horizontal section of a single-track tunnel, showing the application of my fixture to it, the fixture being shown in plan.

The purpose of my invention is to direct the light from an electric lamp obliquely across the track, as shown by the radial lines in Fig. 4, while effectually screening it from the eyes of the motorman of a train approaching in the direction of the arrow. To this end the fixture provides a hood or shield projecting obliquely from a suitable base or support adapted to contain an electric lamp, and having, preferably, a mirror or reflector for concentrating the light.

Referring to Figs. 1, 2, and 3, let A designate the casing forming the hood or shield and projecting from a base B, with which it is preferably cast integrally, this base having preferably three feet C C, through which are passed fastening-bolts *a a*, receiving fastening-nuts to secure the casing to the wall of the tunnel or to any suitable support. The casing is shown as formed with a cylindrical portion or neck *b*, projecting outward from the base B, within which is inclosed a lamp-socket D, which is fastened to the base and carries any usual form of incandescent lamp E. Beyond the neck *b* the casing A is ex-

panded to form an obliquely-projecting hood *c*, preferably of approximately parabolic form with the axis of the parabola at an angle, preferably, of thirty degrees with the plane of the base B. The hood terminates in an open or trumpet mouth having an inturned flange *d*. Against this flange is fastened the outturned flange *e* of a reflector F, which is thereby supported within the hood, being preferably a parabolic reflector with its axis *x* coincident or approximately so with the inclined axis of the hood *c*. For a fixture to be fastened to the side wall of a tunnel the axis *x* is inclined in the horizontal plane, and preferably at an angle of thirty degrees with the side wall of the tunnel, as shown in Figs. 3 and 4.

It is apparent from the plan view, Fig. 4, that the hood portion *c* of the casing A serves as a screen to intercept the light from the eyes of the motorman of a train approaching in the direction of the arrow, while the reflector concentrates the light forwardly, so that it is thrown partly in direction longitudinally of the track, but mainly obliquely across it, as indicated by the radial dotted lines.

It will be obvious that my invention may be widely varied in details of construction, proportions, and arrangement, and that it may be availed of otherwise than for attachment to the sides of a tunnel to be illuminated. It is applicable, for example, to the ceiling of a tunnel or may be used in other locations wherever a hooded-light fixture is required.

What I claim is—

1. An electric-light fixture for a tunnel or like location adapted to direct the light in-variably in one direction only, comprising a supporting-base, adapted for attachment to a wall, and a rigid casing fixedly united to said base, formed as a hood or shield projecting obliquely therefrom and adapted to shield the light from one direction parallel with said wall and expose the light in the contrary direction, and an electric lamp within said casing.

2. An electric-light fixture for a tunnel or like location adapted to direct the light in-variably in one direction only, comprising a supporting-base, and a rigid casing fixedly united to said base, formed as a hood or shield

projecting obliquely therefrom, a lamp within said casing, and a reflector supported within said casing on an oblique axis.

3. An electric-light fixture comprising a  
5 supporting-base B, radial feet C C therefor,  
a casing A projecting from said base and  
formed with an oblique hood c, a lamp-socket  
D fastened to said base, a lamp E carried  
thereby within said hood, and an oblique re-  
10 flector F mounted in said casing on an oblique

axis substantially coincident with the oblique hood.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

JAMES J. WOOD.

Witnesses:

EDWARD A. BARNES,  
THOS. W. BEHAN.