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1,440,733.

E. F. GUTH.
LIGHTING FIXTURE.
FILED JUNE 29, 1920.

Fig. 1.

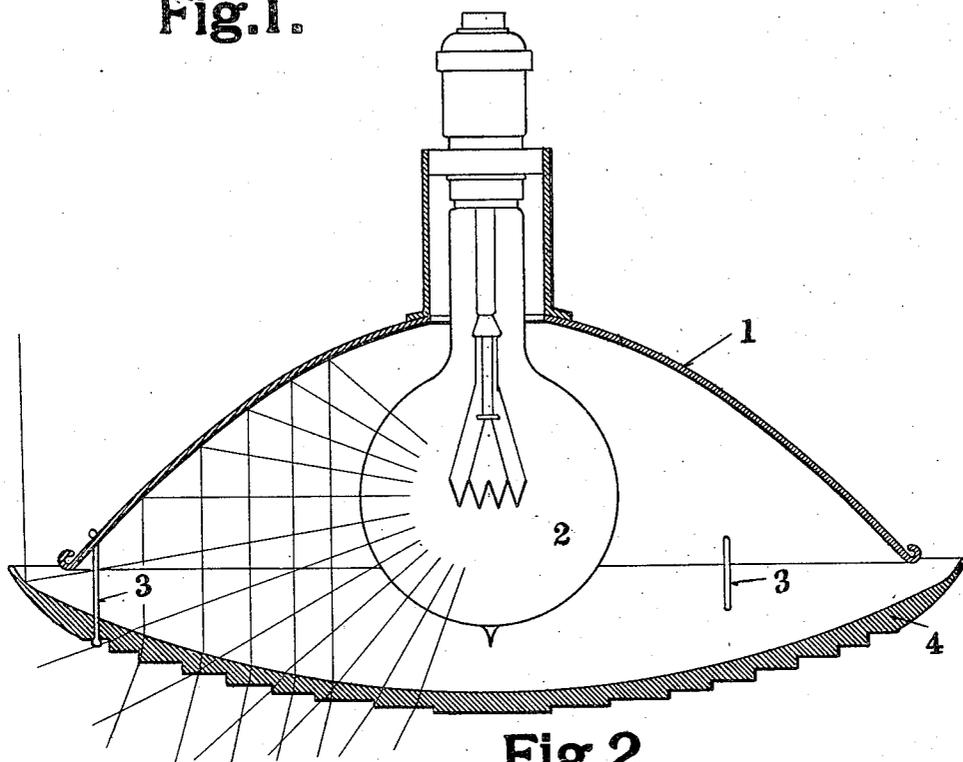
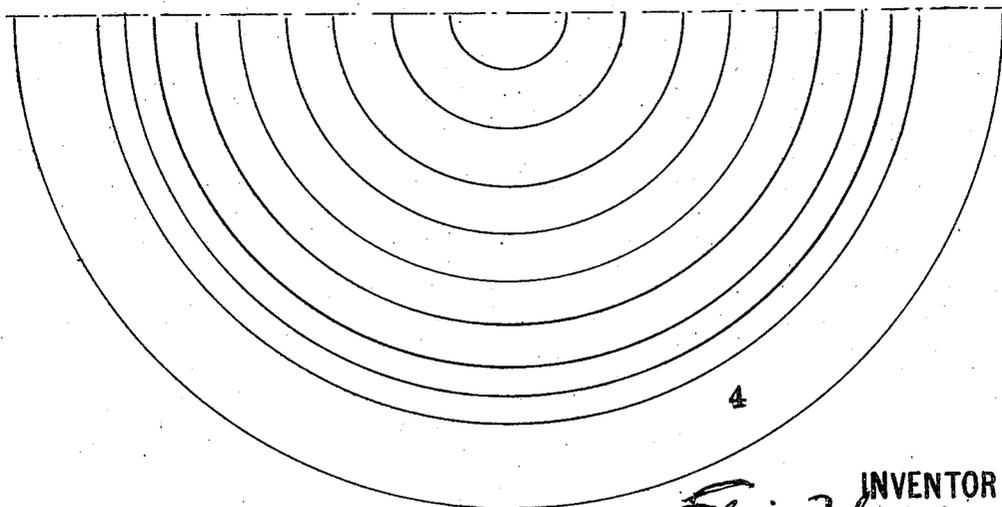


Fig. 2.



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LIGHTING FIXTURE.

Application filed June 29, 1920. Serial No. 392,747.

To all whom it may concern:

Be it known that I, EDWIN F. GUTH, a citizen of the United States of America, residing at the city of St. Louis, State of Missouri, have invented a certain new and useful Lighting Fixture, of which the following is such a full, clear, and exact description as will enable anyone skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a lighting fixture, its object being to produce a fixture wherein the light source will be concealed; whereby the light will be controlled in a novel and efficient manner and distributed over the working plane; and whereby a portion of the light from the source will be directed upwardly to illuminate the ceiling adjacent to the fixture to avoid the formation of the shadow of the fixture thereon. Further objects and advantages of my invention will appear from the following more detailed description.

In the accompanying drawings, Fig. 1 is a view partly in cross section and partly in elevation of a fixture embodying my invention and Fig. 2 is a bottom plan view of one half of the prism plate forming the lower part of the fixture.

1 represents a reflector positioned around the light source 2, said reflector being opaque and preferably parabolic. In the form shown the reflector is supported from the lamp socket but it may of course be supported in any other suitable manner. Suspended beneath this reflector by means of hangers 3 is a curved glass lens or plate 4 which is of greater diameter than the reflector opening and the lower surface of which is in the form of a plurality of concentric prisms. The plate is suspended a short distance beneath the lower edge of the reflector but in such position that all direct rays of light from the source not impinging on the reflector will be intercepted by the plate. The peripheral portion of the plate is so positioned that a certain amount of light will be reflected upward by it and toward the portion of the ceiling adjacent to the fixture supporting means thus preventing the forming of shadows of the fixture itself upon the ceiling.

The reflector is preferably parabolic whereby reflected light rays issuing from it are parallel and these rays upon passing through the prism plate are refracted outwardly to varying degrees by the prism, and the light is distributed over a substantial area.

My improved fixture herein described, combines the advantageous features of directing the greater portion of the light from the source downward and distributing it outward and over the working plane in an efficient manner together with the feature of illumination of the ceiling around the fixture support. It can be very easily disassembled for cleaning.

Having fully described my invention, what I claim and desire to secure by Letters Patent of the United States is:

1. In a lighting fixture, the combination with a source of light of a reflector adapted to reflect downwardly the rays impinging thereon, and a light-diffusing plate of larger diameter than the reflector, positioned beneath, and spaced from, the reflector, so as to provide an open space between the reflector and the periphery of the plate, through which light rays will be re-directed upwardly by the plate.

2. In a lighting fixture the combination with a source of light of a reflector adapted to reflect downwardly the rays impinging thereon, and a light diffusing plate of larger diameter than the reflector, and partially spherical in conformation positioned beneath, and spaced from, the reflector.

3. In a lighting fixture the combination with a source of light of a reflector adapted to reflect downwardly the rays of light impinging thereon, and a light diffusing plate of larger diameter than the reflector, and partially spherical in conformation, positioned beneath, and spaced from, the reflector, said plate having concentric prisms formed on the lower surface thereof.

4. In a lighting fixture, the combination with a source of light of a reflector adapted to reflect downwardly the rays of light impinging thereon, and a light diffusing plate of larger diameter than the reflector, and partially spherical in conformation, positioned beneath, and spaced from, the reflector, said plate having concentric prisms

formed on the lower surface thereof, the prisms being formed with substantially right angular surfaces.

5 In a lighting fixture, the combination with a source of light of a reflector adapted to reflect downwardly the rays of light impinging thereon, and a light diffusing plate of larger diameter than the reflector suspend-

ed from, and spaced from, the reflector, said plate being partially spherical in conforma- 10 tion, and provided with concentric prisms formed on its lower surface.

In testimony whereof, I have hereunto set my hand and affixed my seal.

EDWIN F. GUTH. [L. s.]