

March 7, 1933.

E. F. GUTH

1,900,551

LIGHTING UNIT FOR REFLECTED ILLUMINATION

Filed Feb. 28, 1931

3 Sheets-Sheet 1

Fig. 1.

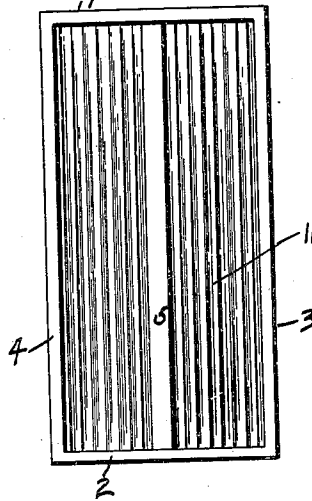


Fig. 2.

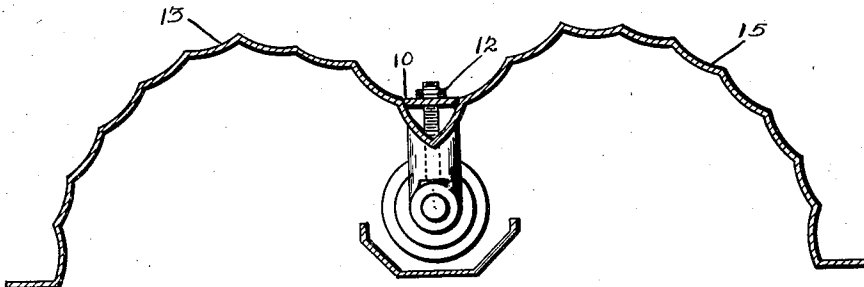
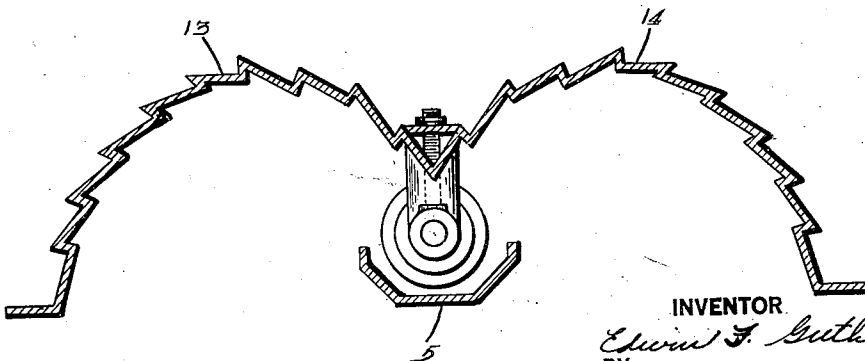


Fig. 3.



INVENTOR.

Edwin F. Guth

BY

Harvey Bea Rodson
ATTORNEY

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Fig. 4.

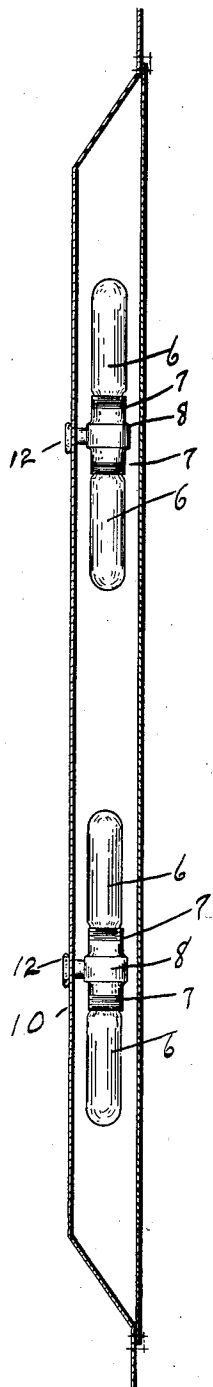
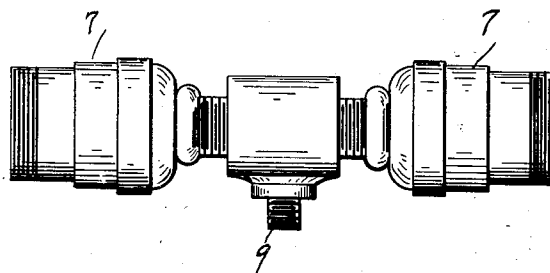


Fig. 5.



INVENTOR

Edwin F. Guth

BY

Harvey Lee Rodson

ATTORNEY

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Fig. 7.

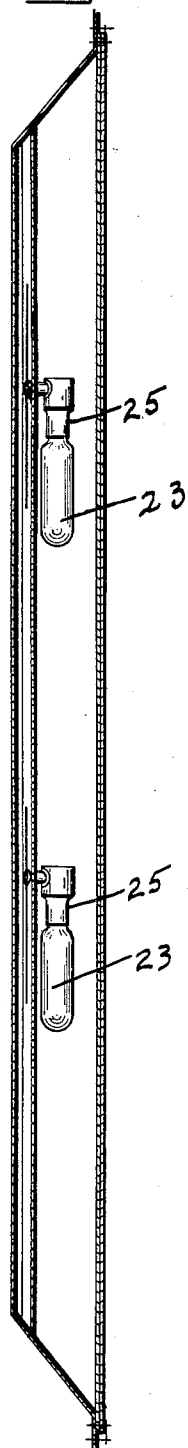


Fig. 6.

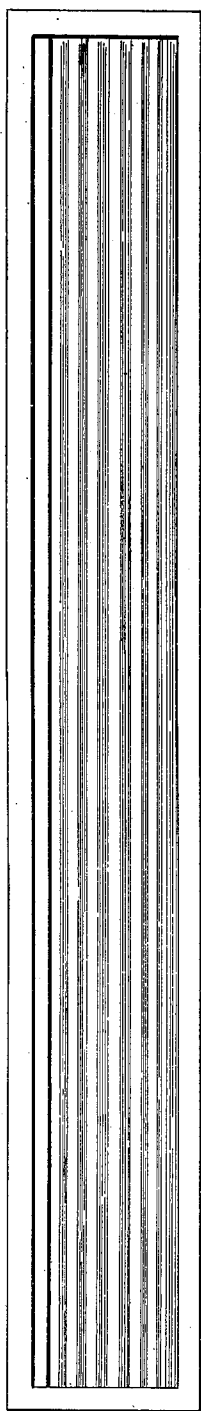


Fig. 8.

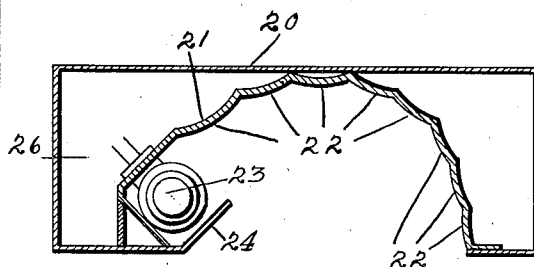
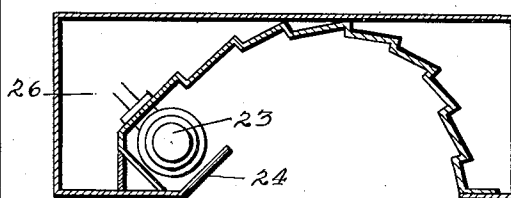


Fig. 9.



INVENTOR

Edwin F. Guth

BY

Harry Lee Dodson
ATTORNEY

UNITED STATES PATENT OFFICE

EDWIN F. GUTH, OF WEBSTER GROVES, MISSOURI

LIGHTING UNIT FOR REFLECTED ILLUMINATION

Application filed February 28, 1931. Serial No. 518,976.

My invention relates to that class of lighting fixtures which are described in my co-pending application, Serial No. 503,128. It is well known that the type of lighting known as indirect is greatly favored by engineers because it so closely approximates daylight. It is also well known that there has sprung up in art circles, a type known as modernistic, which has attained considerable vogue and has been adapted by interior decorators, etc., so that it is necessary to have lighting fixtures to correspond to such modernistic period.

My invention has for its object to produce a fixture which will fit into a modernistic room and which will also provide a very efficient manner of utilizing indirect lighting.

My means of accomplishing the foregoing objects may be more readily comprehended by having reference to the accompanying drawings, in which—

Fig. 1 is a front elevation of my improved vertical indirect light;

Fig. 2 is an enlarged cross sectional view of the reflector;

Fig. 3 is a similar view showing a modified form of reflector;

Fig. 4 is an enlarged vertical sectional view, the lamps being shown in elevation;

Fig. 5 is a detail view of the lamp mounting;

Fig. 6 is a front view of a modified form using a single reflector;

Fig. 7 is a vertical sectional view of the device where a single reflector is used;

Fig. 8 is a cross section of the device as shown in Fig. 6; and

Fig. 9 is a cross section of the modified form of reflector where a single reflector is used.

Similar reference numerals refer to similar parts throughout the entire description.

As shown in the drawings, I provide a frame 1 which comprises upper and lower ends 1 and 2 which are connected by sides 3

and 4 and a central member 5. The lamps 6 are mounted in pairs and are carried by sockets 7, which are carried by T's 8, these T's are provided with threaded hollow lugs 9 which extend through the center 10 of the reflector 11, being secured by means of a nut 12 or in any other convenient manner. The reflector is formed with two concave wings 13 and 14 which are preferably coated with porcelain enamel, each wing is provided with a series of longitudinal convex corrugations. By locating the lamps 6 at the center of the two wings, I am able to overcome any tendency of the reflector to exhibit excessive brightness as this only permits one-half of the light flux to reach each wing of the reflector thereby entirely avoiding glare and giving a very beautiful soft light. The corrugations, when the lamps are illuminated, resemble a series of glass tubes or pillars, having the lights inside of them, conveying an almost indescribable impression, while affording a most satisfactory illuminant.

In some cases where a most decided modernistic or impressionistic effect is sought or desired, it may be found desirable to form the wings of the reflector in the modified form shown in Fig. 3, in which a plurality of longitudinal steps with plane surfaces are shown, these heighten the effect produced when the lamps are illuminated.

As shown in Figs. 6 to 9 inclusive, I provide a casing 20, in which I mount a single reflector 21, which has a plurality of convex corrugations 22. Where this construction is utilized, I mount the lamps 23 behind a supplemental reflector 24, which redirects the light from the source 23 to the reflector 21. The lamps 23 are conveniently carried in sockets 25 which are mounted in a flat portion 26 of the reflector 21. This construction also produces the illusion of glass tubes possessed by the double reflector heretofore described.

Having described my invention what I re-

gard as new and desire to secure by Letters Patent of the United States, is:

1. A frame, a reflector mounted therein, a central member on said frame, a plurality of
5 electric lamps at the junction of said wings and extending longitudinally thereof and behind said central member, said reflector having two concave wings, a plurality of longitudinal corrugations on each of said wings.
- 10 2. A frame, a reflector mounted therein, a central member on said frame, a plurality of electric lamps behind said central member, means to secure said lamps at the junction of the wings of the reflector and longitudinally
15 thereof, said reflector having two concave wings, a plurality of longitudinal corrugations on each of said wings.

EDWIN F. GUTH.

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