May 14, 1929. L. M. RIDDLE 1,712,583

ILLUMINATING STRUCTURE

Filed April 14, 1928

Fig. 1.

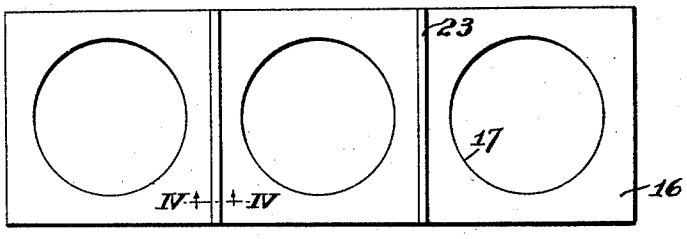


Fig. 2.

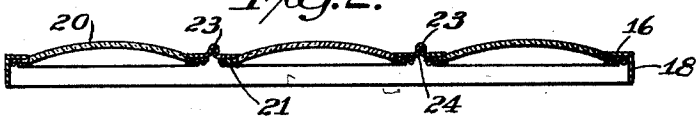


Fig. 3.

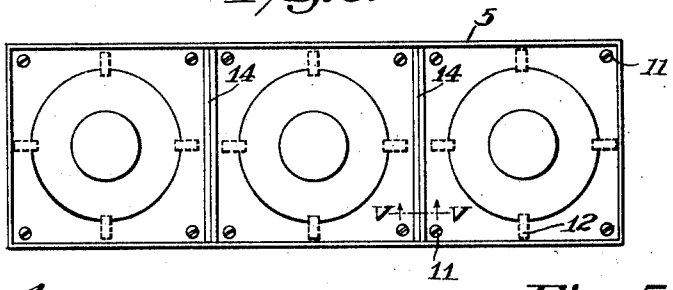


Fig. 4.

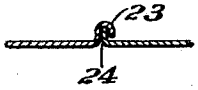


Fig. 5.

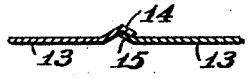


Fig. 6.

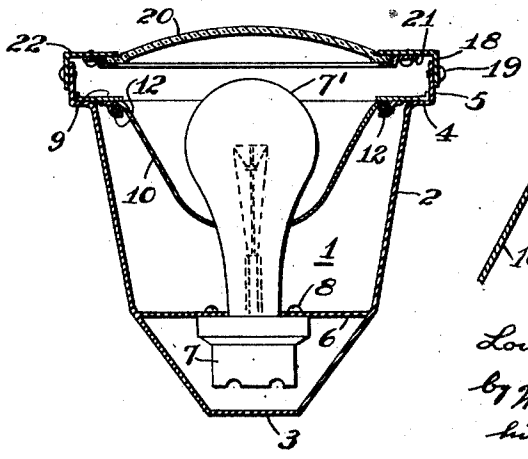
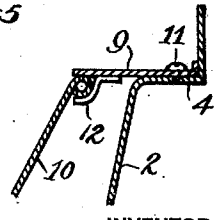


Fig. 7.



WITNESSES

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UNITED STATES PATENT OFFICE.

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ILLUMINATING STRUCTURE.

Application filed April 14, 1928. Serial No. 269,887.

This invention relates to illuminating structures, more particularly to wall illuminating structures for supporting lamps in multiples and it is among the objects of this invention to provide wall illuminating structures especially applicable for illuminating exterior walls of buildings which are designed to protect the lighting fixtures and reflectors against atmospheric and weather conditions and also to protect them against breakage.

Another object of the invention is to provide wall illuminating structures of simple and compact form which shall be relatively inexpensive to manufacture and which shall be constructed in units of a convenient size which renders them especially applicable to the service in which they are placed.

Another object of the invention is to provide wall illuminating structures of the above designated character which shall embody means for assembling the light bulbs, reflectors and cover lenses in a convenient manner to render them accessible for inspection and renewal.

These and other objects will become more apparent from a consideration of the accompanying drawings in which like reference characters designate like parts and in which Fig. 1 is a top plan view of an outside cover member for the lighting fixtures; Fig. 2 a longitudinal sectional view of the cover shown in Fig. 1; Fig. 3 a plan view of an interior cover member showing the reflector secured in place; Figs. 4 and 5 are enlarged details illustrating the joints of the cover members taken along the lines IV—IV and V—V of Figs. 1 and 3 respectively; and Fig. 6 a sectional elevational view of the assembled lighting fixture and Fig. 7 is a sectional detail view showing the assembly of the reflector and inside cover member.

Referring to Fig. 6 of the drawings, the structure therein illustrated comprises a trough generally designated at 1 having tapered side walls 2 terminating into a constricted portion forming a base 3. The upper ends of the walls 2 are provided with a shoulder 4 and flange 5. The trough is of any convenient length for housing a plurality of light bulbs and reflectors, a row of three being illustrated in Fig. 3 but the trough may be lengthened to embody any desired number of lighting fixtures in accordance with the requirements of a particular installation.

The trough member is provided with transverse straps or strips in suitable spaced relation 6 for supporting lamp sockets 7 which are secured thereto in any suitable manner as by screws 8. The strips 6 may be fastened by soldering or in any well known manner to the sides of the trough.

An inside cover member 9 is provided to support reflectors 10 and is preferably formed of sections 13 having offset edges 14 which are adapted to receive the flared ends 15 of adjacent sections to provide for the proper spacing of the openings in the cover member for registering with the lamp sockets 7. By this arrangement the lamp sockets become accessible for the removal of the individual sections 13 without necessitating the raising of the entire cover member. The reflectors 10 are secured to the inside cover 9 by fingers 12 which are welded or soldered to the cover. The cover is secured to the shoulder 4 of the trough by screws 11.

As shown in Figs. 1 and 2, an outside cover 16 having openings 17 in spaced relation corresponding to the spacing of the reflector 10 and lamp sockets 7 is adapted to cover the open side of the light fixtures and for this purpose is provided with depending flanges 18 for engagement with the upturned flange 5 of the trough. The cover 16 may be secured to the trough by screws 19 or in any other suitable manner which makes the cover detachable from the trough.

Lenses 20 are mounted in the openings 17 of the cover and are secured thereto as by cleats fastened by solder to the cover or as by a flanged ring 21, Fig. 6, which is secured to the cover by rivets or screws 22.

For convenience of construction the outer cover may be made of sectional members as shown in Figs. 2 and 4 each section being provided with a curved end 23 forming a slot for receiving an upturned edge 24 which interacts with the slotted portion to hold the respective sections in their assembled position.

By the construction referred to, any number of the sections may be utilized for forming a lighting fixture of a given length depending upon the number of lights to be mounted therein.

The wall illuminating fixture is assem-

bled in the following manner:—The lamp sockets 7 are secured in spaced relation as previously explained, and the intermediate cover member 9 is placed in position on the shoulder 4 of the trough with the reflectors 10 in their assembled position. The light bulbs 7′ are then screwed into their sockets 7 and the outside cover 16 carrying the lenses 20 is placed in the position shown in Fig. 6 and fastened by screws 19.

If it is necessary to inspect the lights or reflectors, the outer cover is removed and the reflectors 10 or lights 7′ may then be individually examined or inspected as required.

By the utilization of the intermediate cover 9 and the outer cover 20 arranged in the manner described, the illuminating structure is especially adapted for exterior lighting and for placement upon the building or the like, since the lights and electric connections within the trough are protected against moisture and other atmospheric conditions.

Although one of the embodiments of the invention has been herein illustrated and described, it will be obvious to those skilled in the art that various modifications may be made in the details of construction without departing from the principles herein set forth.

I claim herein as my invention:

1. A wall illuminating structure comprising in combination a trough, a plurality of lamp sockets mounted in spaced relation in said trough, a cover fastened in said trough and having openings in spaced relation with said sockets, reflectors disposed in said cover openings and secured to said cover, and a second cover for said trough, said last named cover having openings in alinement with the openings of said first named cover.

2. A wall illuminating structure comprising in combination a continuous trough, lamp sockets mounted in spaced relation in said trough, a cover disposed intermediate the top and bottom of said trough and having openings in register with said sockets, an outer cover for said trough having openings in register with the openings of said intermediate cover and lenses fastened in the openings of the outer cover.

3. A wall illuminating structure comprising in combination a continuous trough, lamp sockets mounted in said trough, a cover member disposed intermediate the top and bottom of said trough and having openings in registry with the lamp sockets, reflectors secured in line with the openings of said cover member, an outer cover for said trough and lenses fastened in the outer cover member.

In testimony whereof, I have hereunto set my hand.

LOUIS M. RIDDLE.