

April 4, 1933.

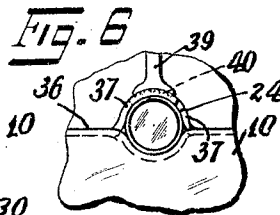
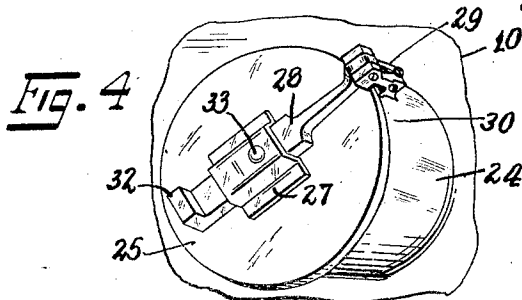
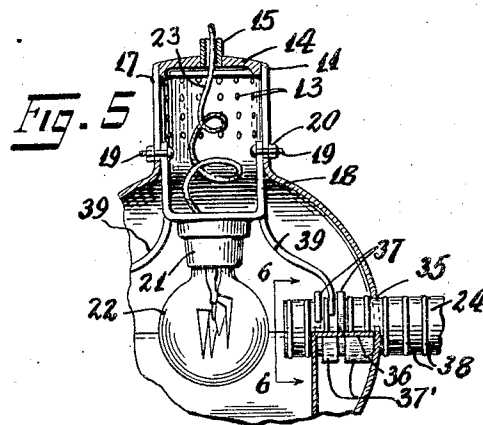
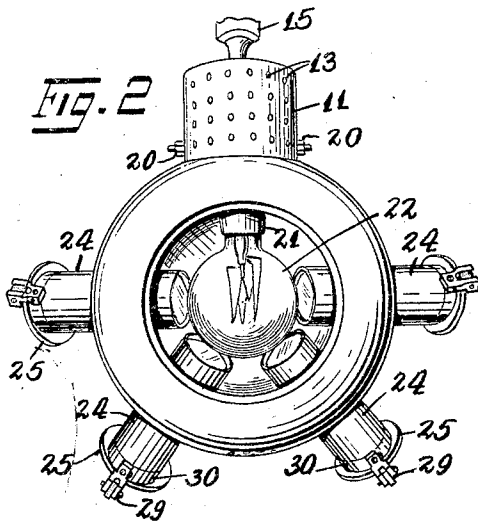
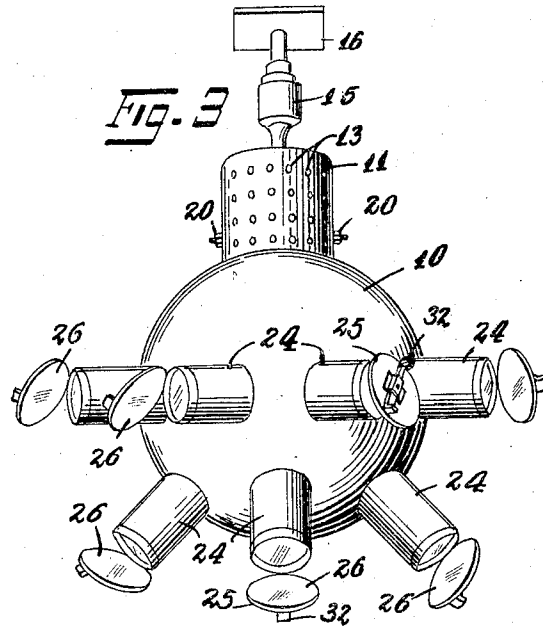
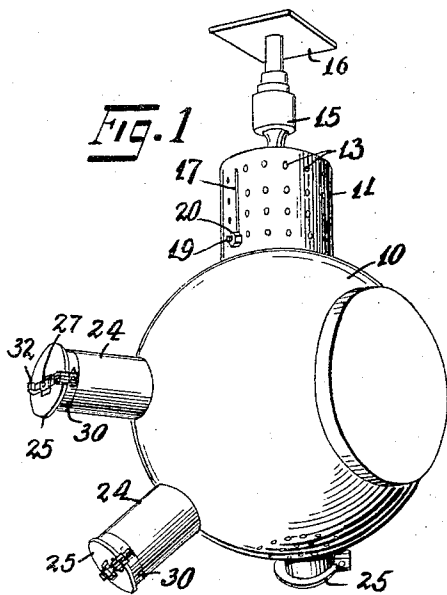
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1,903,330

MULTIPLE DISPLAY LAMP

Filed April 1, 1932

2 Sheets-Sheet 1



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MULTIPLE DISPLAY LAMP

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2 Sheets-Sheet 2

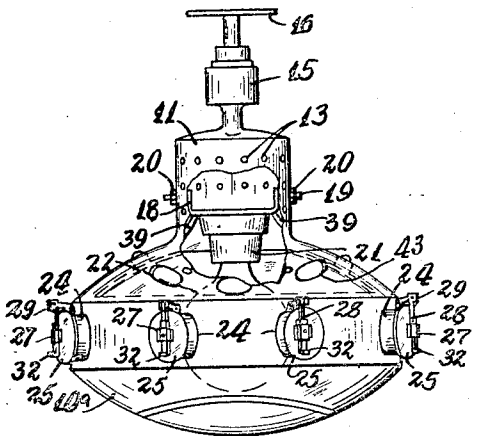


Fig. 7.

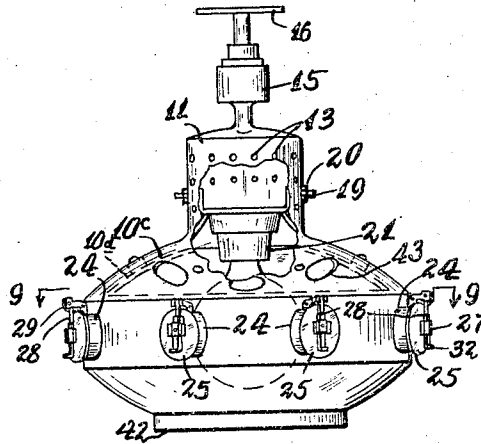


Fig. 8.

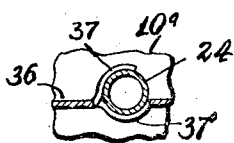


Fig. 10.

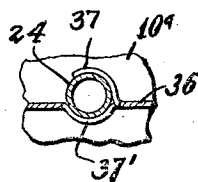


Fig. 11.

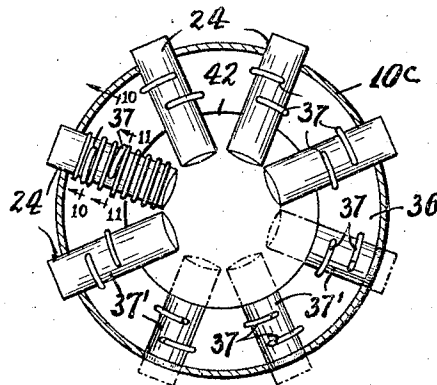


Fig. 9.

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MULTIPLE DISPLAY LAMP

Application filed April 1, 1932. Serial No. 602,608.

This invention relates to new and useful improvements in a multiple electric display lamp.

The invention has for an object the construction of a device of the class mentioned which is characterized by a hollow casing having a tubular portion at the top, a lamp adjustably supported depending from said tubular portion, and a plurality of tubes radially arranged upon said casing relative to said lamp when the lamp is in a lowered position.

The invention has for a still further object the arrangement of a large opening in said casing normally closed with a cover to allow access to said lamp.

Furthermore, the invention proposes the provision of a plurality of covers upon the extended ends of said tubes in the form of mirrors which may be opened to reflect transmitted light.

A still further object of this invention is the provision of a universal joint for holding said display lamp in various tilted positions.

Furthermore, the invention proposes an arrangement whereby said tubes are adjustable, and the provision of means for holding the tubes against extension or retraction when said lamp is in its operative position.

The invention has for another object the construction of a device of the class described which is of simple durable construction dependable in use and efficient in operation and which can be manufactured and sold at a reasonable cost.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawing forming a material part of this disclosure:—

Fig. 1 is a perspective view of a device constructed according to this invention.

Fig. 2 is a rear elevational view thereof shown with the back cover removed.

Fig. 3 is a front elevational view of Fig. 1.

Fig. 4 is a perspective enlarged detailed view of one of the tube covers.

Fig. 5 is a fragmentary sectional view of the device.

Fig. 6 is an elevational view looking in the direction of the line 6—6 of Fig. 5.

Fig. 7 is a side elevational view of a device constructed according to a modification of the invention.

Fig. 8 is a view similar to Fig. 7 but showing another variation.

Fig. 9 is a sectional view taken on the line 9—9 of Fig. 8.

Fig. 10 is a fragmentary elevational view of a device constructed according to a modification of the invention, taken on the line 10—10 of Fig. 9.

Fig. 11 is a similar view taken on the line 11—11 of Fig. 9.

The multiple electric display lamp, according to this invention, comprises a hollow casing 10 having a tubular portion 11 at the top. A plurality of apertures 13 are formed in the tubular portion 11 to allow the escape of heated air from within the device. A cover element 14 is mounted upon the top of the tubular portion 11 and connects with a universal member 15 which in turn is connected with a plate 16 for attachment upon the ceiling. At diametrically opposite sides the tubular member 11 is formed with slots 17. A bracket 18 is located within the casing and is provided with projecting studs 19 which pass through the slots 17. Nuts 20 threadedly engage upon these studs and serve to hold the bracket 18 in various elevated positions within the tubular member.

A lamp socket 21 is attached upon the bottom of the bracket 18 and supports a lamp 22. The lead 23 from the lamp extends through the universal 15 and through the ceiling bracket 16, not shown on the drawings, but as is customary in ceiling fixtures. A portion of the line 23 is loose so that the bracket 18 will be raised. A plurality of tubes with lenses 24 radially project from the casing relative to the center of the lamp 22 when the latter is in a lowered position. A cover 24 closes the outer ends of each of the tubes 24. This cover is constructed with a mirror 26 on

its inner side so as to be capable of reflecting light passing through the tube. More particularly, the cover is provided with a standard portion 27 slidably arranged upon an arm 28 hingedly mounted at 29 upon a band 30 clamped at 31 upon the end of the tube. The arm 28 has a projection 32 at its free end to limit the sliding of the cover 25. A set screw 33 holds the cover 25 in various adjusted positions on the arm. The hinge of the lever 28 maintains any set positions due to frictional contact.

Each of the tubes 24 is slidably arranged through an opening 35 formed in the hollow casing. Resilient means is mounted within the casing for holding the tube in various projected positions. More particularly, rim 36 is secured upon the inside of the casing wall and support springs 37 which particularly encircle the tube 24. The springs 37 are made integral with rim 36 which is bent downwardly to form recesses 37' on which the tubes 24 may rest and will grip the said tubes with the aid of the spaced springs 37 which are bent upwardly projecting from opposite directions and shaped to rest and tension the upper periphery of tubes 24. A plurality of peripheral ridges 38 are formed upon the tubes against which the springs 37 hold the tubes in various projected positions. Catch fingers 39 project from the bracket 18 and have at their free ends teeth 40 engaging against the tubes 24 so as to latch the tubes against motion when the bracket 18 is in a lowered position.

In Fig. 7 a modification of the invention has been disclosed in which a casing 10^a has been illustrated which is substantially elliptical in transverse cross sections. From this casing a plurality of tubes 24 project. These tubes are arranged in one horizontal plane through the center of the casing. In the casing shown in the previous figures the tubes project at different inclinations and form different planes. In other respects this form of the invention is identical to the previous form.

Figs. 8 and 9 disclose another variation which is substantially identical with Fig. 7 but distinguishes in that a casing 10^c is provided which has an open bottom 42. In other respects it is identical to the previous construction. While only a few designs of casing have been shown it must be borne in mind that the invention intends to cover all types of casings such as cubical, spherical, cylindrical, oval, triangular, oblong, etc.

When it is desired to concentrate the light through the bottom opening 42, all the mirrors 26 are closed and the reflector 10D reflects a flood light through the bottom opening 42.

A plurality of apertures 43 are provided at the top of the casing 10C to allow the escape of heated air from within the device.

While we have shown and described the preferred embodiment of our invention, it is to be understood that we do not limit ourselves to the precise construction herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described our invention, what we claim as new, and desire to secure by United States Letters Patent is:—

1. A multiple electric display lamp, comprising a hollow casing having a tubular portion at the top, a support attached on the top and including a universal, a bracket within said tubular portion and having studs extended through longitudinal slots formed in said tubular portions, nuts upon said studs, a lamp socket mounted upon said bracket and in the lowered position of the bracket located within the center of said casing, a plurality of tubes with lenses extended through said casing radially with the center of said lamp when the latter is lowered, a mirror cover adjustably mounted upon the ends of each of the tubes, resilient means for holding said tubes in various projected positions and catch fingers upon said bracket adapted to engage the peripheries of said tubes when the bracket is in its lowered position.

2. A multiple electric display lamp, comprising a hollow casing having a tubular portion at the top, a support attached on the top and including a universal, a bracket within said tubular portion and having studs extended through longitudinal slots formed in said tubular portions, nuts upon said studs, a lamp socket mounted upon said bracket and in the lowered position of the bracket located within the center of said casing, a plurality of tubes with lenses extended through said casing radially with the center of said lamp when the latter is lowered, a mirror cover adjustably mounted upon the ends of each of the tubes, resilient means for holding said tubes in various projected positions and catch fingers upon said bracket adapted to engage the peripheries of said tubes when the bracket is in its lowered position, said tubular portion being formed with a plurality of apertures.

3. A multiple electric display lamp, comprising a hollow casing having a tubular portion at the top, a support attached on the top and including a universal, a bracket within said tubular portion and having studs extended through longitudinal slots formed in said tubular portions, nuts upon said studs, a lamp socket mounted upon said bracket and in the lowered position of the bracket located within the center of said casing, a plurality of tubes with lenses extended through said casing radially with the center of said lamp when the latter is lowered, a mirror cover adjustably mounted upon the ends of each

of the tubes, resilient means for holding said tubes in various projected positions and catch fingers upon said bracket adapted to engage the peripheries of said tubes when the bracket is in its lowered position, said support being adapted for attachment upon a ceiling.

4. A multiple electric display lamp, comprising a hollow casing having a tubular portion at the top, a support attached on the top and including a universal, a bracket within said tubular portion and having studs extended through longitudinal slots formed in said tubular portions, nuts upon said studs, a lamp socket mounted upon said bracket and in the lowered position of the bracket located within the center of said casing, a plurality of tubes with lenses extended through said casing radially with the center of said lamp when the latter is lowered, a mirror cover adjustably mounted upon the ends of each of the tubes, resilient means for holding said tubes in various projected positions and catch fingers upon said bracket adapted to engage the peripheries of said tubes when the bracket is in its lowered position, each of said mirror covers being slidably mounted upon an arm, said arm being hingedly mounted upon the tube, and means for holding said cover in various adjusted positions along said arm.

5. A multiple electric display lamp, comprising a hollow casing having a tubular portion at the top, a support attached on the top and including a universal, a bracket within said tubular portion and having studs extended through longitudinal slots formed in said tubular portions, nuts upon said studs, a lamp socket mounted upon said bracket and in the lowered position of the bracket located within the center of said casing, a plurality of tubes with lenses extended through said casing radially with the center of said lamp when the latter is lowered, a mirror cover adjustably mounted upon the ends of each of the tubes, resilient means for holding said tubes in various projected positions and catch fingers upon said bracket adapted to engage the peripheries of said tubes when the bracket is in its lowered position, said resilient means comprising springs encircling said tubes and supported within said casing.

6. A multiple electric display lamp, comprising a hollow casing having a tubular portion at the top, a support attached on the top and including a universal, a bracket within said tubular portion and having studs extended through longitudinal slots formed in said tubular portions, nuts upon said studs, a lamp socket mounted upon said bracket and in the lowered position of the bracket located within the center of said casing, a plurality of tubes with lenses extended through said casing radially with the center of said lamp when the latter is lowered, a mirror cover adjustably mounted upon the ends of each of the tubes, resilient means for holding said

tubes in various projected positions and catch fingers upon said bracket adapted to engage the peripheries of said tubes when the bracket is in its lowered position, said catch fingers being provided with teeth adapted to close the peripheries of the tubes.

7. A multiple electric display lamp, comprising a hollow casing having a tubular portion at the top, a support attached on the top and including a universal, a bracket within said tubular portion and having studs extended through longitudinal slots formed in said tubular portions, nuts upon said studs, a lamp socket mounted upon said bracket and in the lowered position of the bracket located within the center of said casing, a plurality of tubes with lenses extended through said casing radially with the center of said lamp when the latter is lowered, a mirror cover adjustably mounted upon the ends of each of the tubes, resilient means for holding said tubes in various projected positions and catch fingers upon said bracket adapted to engage the peripheries of said tubes when the bracket is in its lowered position, said hollow casing being of spherical shape, and said tubes projecting from more than one plane.

8. A multiple electric display lamp, comprising a hollow casing having a tubular portion at the top, a support attached on the top and including a universal, a bracket within said tubular portion and having studs extended through longitudinal slots formed in said tubular portions, nuts upon said studs, a lamp socket mounted upon said bracket and in the lowered position of the bracket located within the center of said casing, a plurality of tubes with lenses, extended through said casing radially with the center of said lamp when the latter is lowered, a mirror cover adjustably mounted upon the ends of each of the tubes, resilient means for holding said tubes in various projected positions and catch fingers upon said bracket adapted to engage the peripheries of said tubes when the bracket is in its lowered position, said casing being of elliptical shape and said tubes projecting from a single plane.

9. A multiple electric display lamp, comprising a hollow casing having a tubular portion at the top, a bracket within said tubular portion, a lamp socket mounted upon said bracket, a plurality of tubes with lenses extending through said casings radially to the center of said lamp, a mirror cover adjustably mounted upon the ends of each of the tubes, resilient means for holding said tubes in various projected positions, said resilient means comprising springs encircling said tubes and supported within said casing.

10. A multiple electric display lamp, comprising a hollow casing having a tubular portion at the top, a bracket within said tubular portion, a lamp socket mounted upon said

bracket, a plurality of tubes with lenses extending through said casings radially to the center of said lamp, a mirror cover adjustably mounted upon the ends of each of the tubes, resilient means for holding said tubes in various projected positions, said resilient means comprising springs encircling said tubes and supported within said casing on a circular rim and integral with the said rim, said casing being of elliptical shape and said tubes projecting from a single plane.

In testimony whereof we have affixed our signatures.

ALBERT M. YOUNG.
WALTER POLLACK.

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