Feb. 17, 1953 J. MARFISI 2,629,044

HOLLOW REVOLVING ILLUMINATED SPOTLIGHT SPHERE

Filed May 17, 1951

Fig. 1.

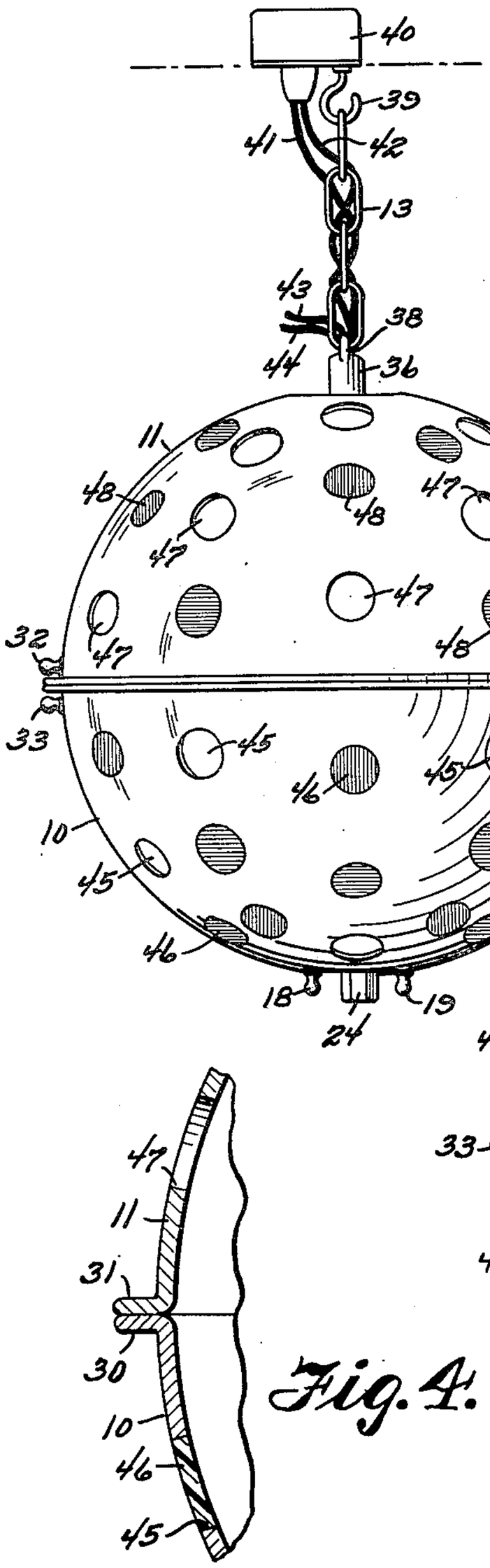

Fig. 2.

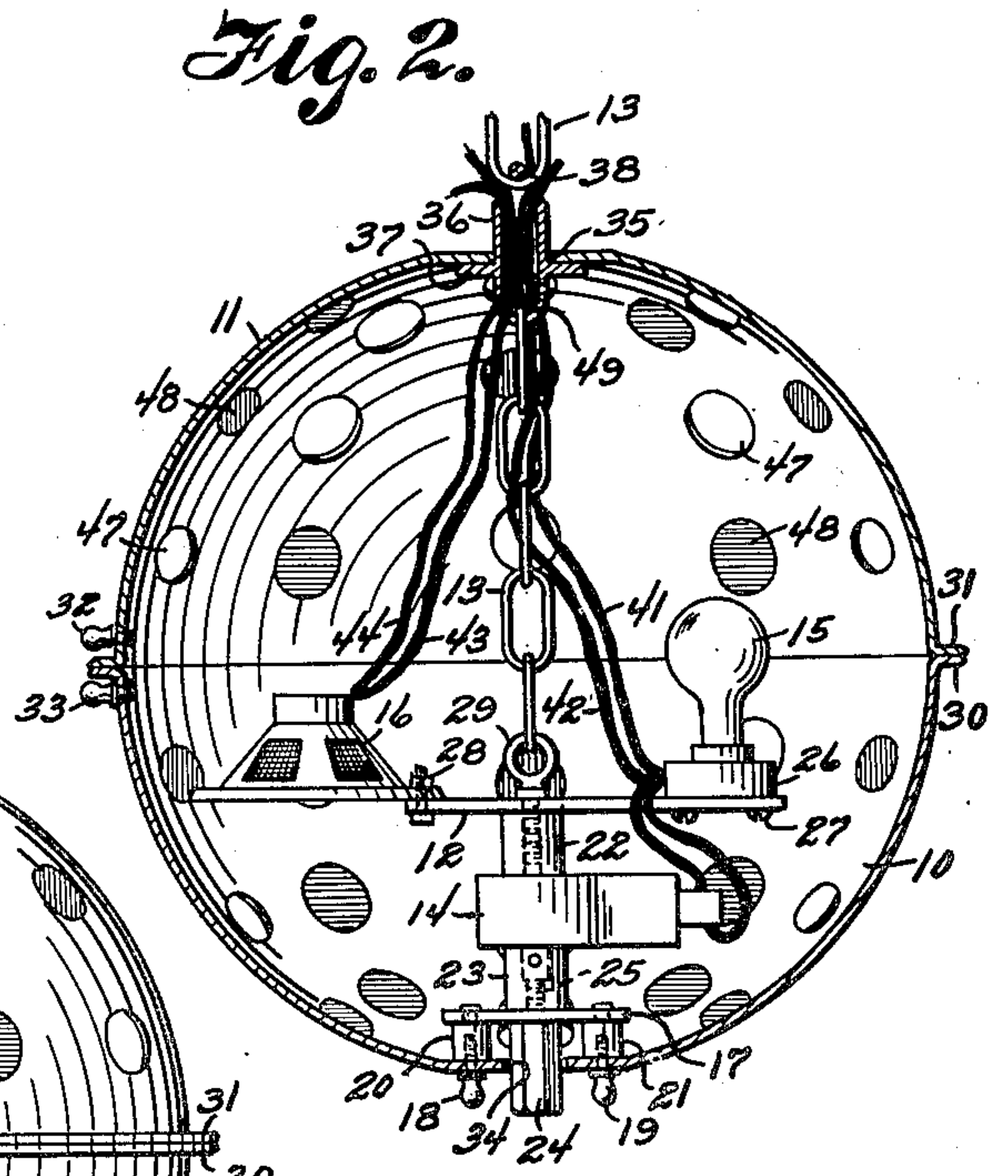

Fig. 3.

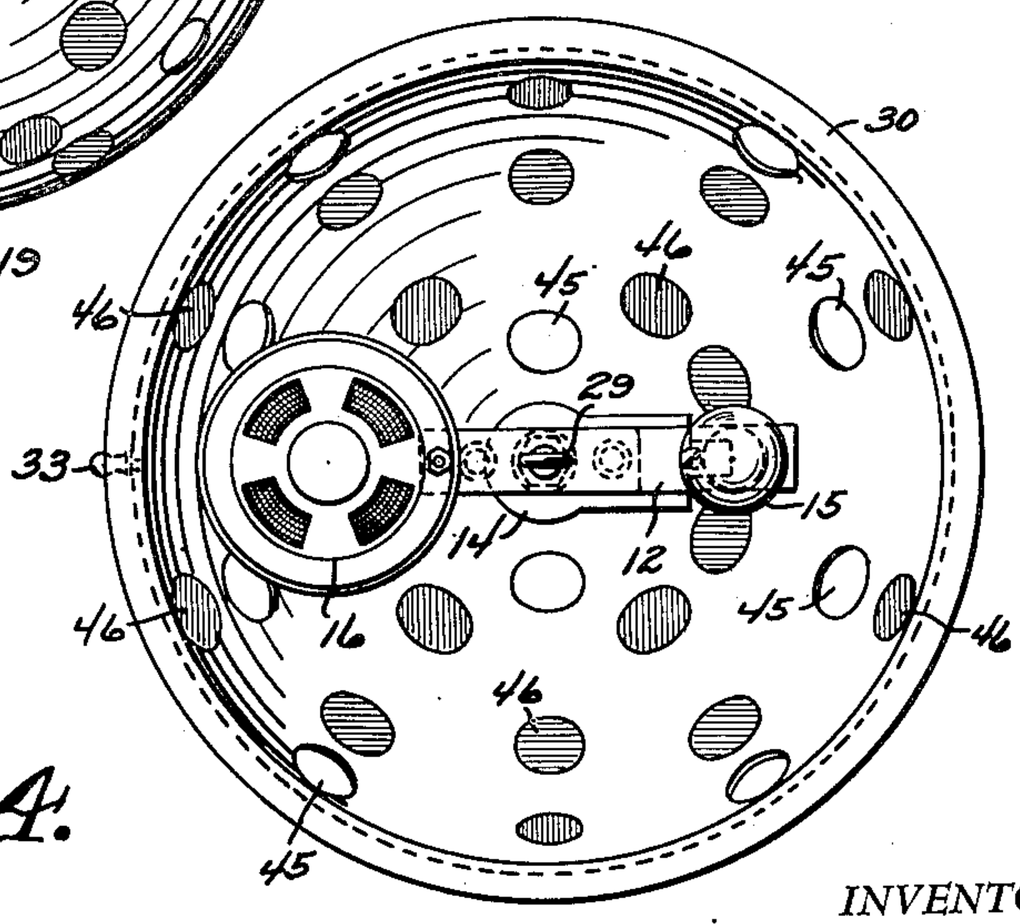

Fig. 4.

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HOLLOW REVOLVING ILLUMINATED SPOTLIGHT SPHERE

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2 Claims. (Cl. 240—10.1)

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This invention relates to balls of the reflector type particularly such as a ball with a plurality of lights of different colors directed against small reflecting units or surfaces on the periphery thereof, and in particular a ball formed with upper and lower semi-spherical shells with clear and colored lenses positioned in spaced openings in the shells and with a motor, loud speaker and a light positioned on the interior of the shells.

The purpose of this invention is to provide a spotlight ball that produces a plurality of white and colored streams of light without the necessity of using a plurality of spotlights positioned at different points around a ball having reflecting surfaces thereon.

For display purposes and particularly in night clubs and the like spheres have been provided and small reflectors positioned at different angles on the surfaces and spotlights positioned at different points and directed toward the sphere produce numerous streams of light which extend at different angles and in substantially all directions. With devices of this type it is necessary to provide electrical connections for each spotlight and it is also necessary to provide a motor for revolving the sphere. Furthermore obstructions temporarily placed between the spotlights and sphere interrupt the display of light. With this thought in mind this invention contemplates a sphere for producing a plurality of streams of light of white and different colors wherein the light originates in the sphere and the sphere is rotated by a motor incorporated therein.

The object of this invention is, therefore, to provide means for constructing a hollow ball or sphere wherein a motor, light and loud speaker may be mounted therein and wherein a plurality of lenses of different colors may be incorporated in the shell or surface.

Another object of the invention is to provide a device for projecting a plurality of streams of white and different colored lights wherein the entire unit is self contained.

A further object of the invention is to provide a ball for producing small light streams of different colors which is of a simple and economical construction.

With these and other objects and advantages in view the invention embodies a lower semi-spherical shell supported by a chain extended upwardly from the center of the lower surface, an upper semi-spherical shell positioned around the chain and resting upon the lower shell, a light, a loud speaker, a motor, and means supporting the light, loud speaker and motor in the spherical body formed by the shell.

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Other features and advantages of the invention will appear from the following description taken in connection with the drawings wherein:

Figure 1 is a side elevational view of the improved spotlight sphere.

Figure 2 is a vertical section through the sphere.

Figure 3 is a sectional plan taken from a plane between the upper and lower sections of the sphere.

Figure 4 is a detail on an enlarged scale showing the flanges at the edges of the sections of the sphere.

Referring now to the drawings wherein like reference characters denote corresponding parts the improved spotlight ball of this invention includes a ball or spherical shell having a lower section 10, an upper section 11, a bracket 12 supported by a chain 13, a motor 14 carried by the bracket, a light 15 and a loud speaker 16, both of which are mounted on the bracket, and a bar 17 actuated by the motor and connected to the lower section 10 of the shell by studs 18 and 19 which are threaded into lugs 20 and 21 on the lower surface of the bar 17 whereby the shell is rotated by the motor.

The bracket 12 is provided with a vertically disposed section 22 on which the motor 14 is positioned and the bar 17 is clamped to a sleeve 23 by an elongated nut 24 on which a threaded stud 25, which is threaded into the member 23 extends.

By removing the studs 18 and 19 the lower section 10 of the shell may be dropped or removed and by removing the nut 24 the motor may be removed for repair.

The light 15 is provided with a socket 26 that is secured to the bracket 12 by screws 27 and the loud speaker 16 is secured to the opposite end of the bracket by bolts 28. The bracket is provided with an eye 29 that is threaded into the upper surface thereof and the lower link of the chain 13 is secured in the eye 29.

The upper edge of the lower section 10 is provide dwith a continuous flange 30 and a similar flange 31 extends around the lower edge of the upper section 11. The sections are provided with knobs 32 and 33 whereby the light openings or lenses in the two sections are aligned.

The lower section 10 is provided with an opening 34 into which the nut 24 extends and the upper section 11 is provided with a similar opening 35 through which a sleeve 36 having a flange 37 on the lower end extends as shown. The upper part of the chain 13 is secured in an eye 38 on the upper end of the sleeve 36 and the chain may be suspended from a hook 39 in the

ceiling or which may be threaded into a supporting element 40 as shown in Figure 1.

The openings in the lower section 10 of the sphere, which are indicated by the numeral 45, may be open or may be provided with colored lenses 46, and similar openings 47 in the upper section 11 may also be open or may be provided with colored lenses 48. The lenses of both sections are usually of different colors.

As illustrated in Figures 1 and 2 the chain may be connected to the eye 38 on the upper end of the sleeve 36 and also to a similar eye 49 on the lower end, although it will be understood that the sleeve 36 may be connected to the chain in any suitable manner.

With the parts arranged in this manner the upper section 11 is freely rotatable upon the flange 37 of the sleeve 36 and with the flange 31 of the upper section resting upon the flange 30 of the lower section the upper section rotates with the lower section whereby light streams which may be white or of different colors are projected from the sphere or ball.

Current to the light and motor may be supplied by electric wires as indicated by the numerals 41 and 42 and current to the loud speaker may be supplied through wires 43 and 44.

With the parts arranged in this manner the sphere is suspended from a ceiling, or other support preferably by the chain, as shown, and as current is supplied to the parts the motor rotates the shell and the light provides light beams of white and different colors whereby the beams travel around the interior of a room or the like in which the device is positioned.

It will be understood that other modifications may be made in the design and arrangement of the parts without departing from the spirit of the invention.

What is claimed is:

1. In a spotlight sphere, the combination which comprises a substantially hollow spherical shell having an upper semi-spherical section and a lower semi-spherical section, each of said sections having centrally disposed openings therein and spaced openings, which are provided with lenses of different colors in the walls thereof, a chain extended downwardly into the shells through the opening in the center of the upper section thereof, a bracket carried by the said chain, a light positioned on the said bracket, a motor carried by the bracket, a horizontally disposed bar carried by the motor and adapted to be rotated thereby, and means removably attaching the lower section of the shell to the said bar.

2. In a splotlight sphere, the combination which comprises a substantially hollow spherical shell having an upper semi-spherical section and a lower semi-spherical section, each of said sections having centrally disposed openings therein and spaced openings, which are provided with lenses of different colors in the walls thereof, a chain extended downwardly into the shells through the opening in the center of the upper section thereof, a bracket carried by the said chain, a light positioned on the said bracket, a motor carried by the bracket, a horizontally disposed bar carried by the motor and adapted to be rotated thereby, and means removably attaching the lower section of the shell to the said bar, said sections having annular flanges on the meeting edges thereof and knobs on the outer surfaces positioned to align the openings in the walls of the sections.

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