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ILLUMINATED SPRINKLER

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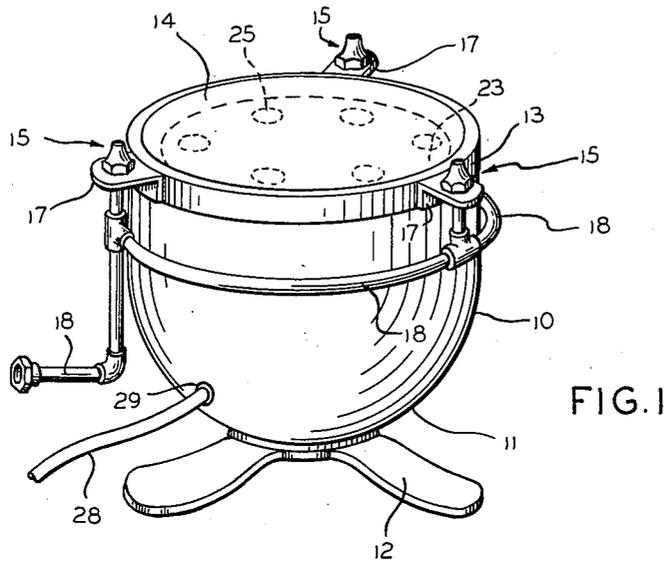


FIG. 1

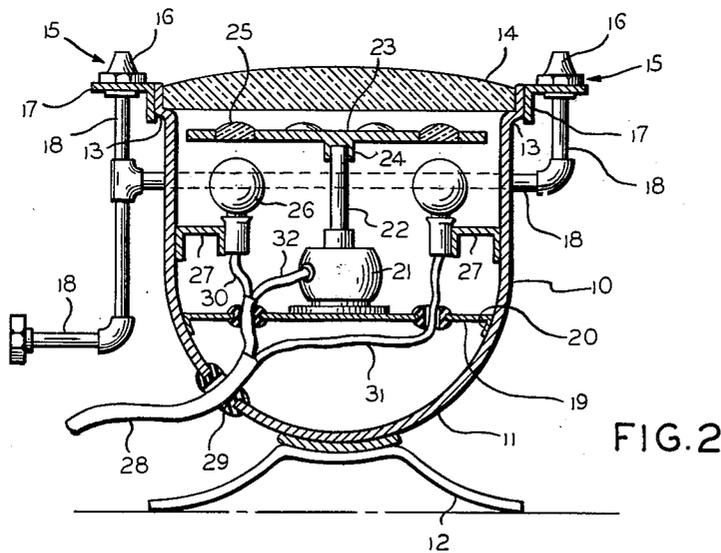


FIG. 2

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ILLUMINATED SPRINKLER

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My invention relates to sprinklers for lawns or the like, and more particularly to lawn sprinklers that are illuminated.

It is manifest to anyone familiar with lawn sprinklers, that the pattern of the spray produced varies constantly, depending on the water pressure, atmospheric conditions and the wind velocity. These patterns are attractive and fascinating to observe. By applying colored light beams, these spray patterns are made even more attractive after dark.

The prime object of my invention is to provide an integral lawn sprinkler and motor actuated illuminating unit to direct various colored light rays on the spray pattern ejected from the unit.

The device illustrated, described and claimed herein has a revolving disc equipped with a plurality of varied colored lenses. When the disc is revolved, it has a tendency to constantly change the color of the spray pattern, while tending to create the illusion of a revolving spray pattern of various colors, to enhance the attractiveness of the spray pattern and hold the attention of the observer.

Another object of my invention is to provide a device of the character described that has the driving means and the illuminating means totally enclosed for protection from the spray.

Still another object of my invention is to provide a device that is self-contained and portable, and may be placed at any predetermined location on the surface of the lawn being serviced.

A further object of the invention is to provide a device that is equipped with a single or plurality of adjustable spray nozzles for the performance of its function.

Other and further objects of my invention will become more apparent as the description proceeds, when taken in conjunction with the accompanying drawings, in which:

FIGURE 1 is a perspective view of the entire assembled device, illustrating the method of mounting the adjustable sprinkler heads around the outer surface of the enclosure; and

FIGURE 2 is a vertical cross sectional view of the device illustrating the arrangement of the component parts constituting the assembly.

Similar characters of reference indicate corresponding parts throughout the several views, and referring now to the same, the character 10 shows a housing or enclosure open at the top and having a closed bottom 11 of downwardly convex shape. The housing or enclosure 10 is mounted on any conventional type of base, shown as a tripod 12 in the illustrations. The enclosure 10 may be constructed of any type of material such as metal or plastic, and is shown flared outward at its upper open end to form a ledge 13, which provides a circular seat for the outer peripheral edge of a transparent lens 14, which may have a flat or convex upper surface. The shape and contour of the enclosure 10 may vary and the lens 14 may be shaped accordingly for its accommodation. Lens 14 is fitted tightly against the seat 13 so as to seal the interior of the housing from the water spray. It may be press fitted on the seat.

A plurality of conventional type sprinkler nozzles 15, which are equipped with adjustable heads 16 to control the volume of water being dispensed, are spaced circumferentially around the unit. These nozzles are supported by outwardly extending angular brackets or flanges 17 on the upper part of the enclosure. The water supply conduit

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18 is led to the nozzles 15 by encircling the outer surface of the enclosure 10. The nozzles thus support the conduits 18. If desired, the supply line 18 may be disposed within the enclosure 10 and lead outward through the wall thereof to the sprinkler heads.

A flat platform or partition 19 is shown disposed near the bottom of the enclosure 10 and supported on the inner surface thereof at 20. This platform 19 supports an electric motor 21, which may be equipped with a speed reducing means (not shown), and an output shaft 22 extending upward therefrom. This shaft 22 supports a disc 23, which is attached to the shaft 22 as by a simple press fit at 24. The disc 23 has a plurality of angularly spaced lenses 25 inserted therein. The lenses 25 may vary in color. Below the disc 23 but above partition 19, a plurality of lamps 26 are supported on the inner surface of the enclosure 10 by means of attaching brackets 27.

The lamps 26 may be equipped with reflectors (not shown) so as to project the rays of light from these lamps 26 upward through the colored lenses 25 and through the top lens 14 to reflect against the sprays of water leading from the sprinkler heads 15, thereby illuminating the spray in various colors, changing as the disc 23 revolves.

The current supply leads 28 lead through the wall of the enclosure 10 at 29 and are shown as 30 leading to the one lamp 26, as 31 leading to the other lamp 26, and as 32 leading to the motor 21. The lamps 26 and the motor 21 are totally enclosed in the enclosure 10 and protected from the sprays.

The unit may be assembled easily by fixing motor 21 to the partition 19, inserting lamps 26 in position, then press fitting disc 23 on shaft 22 and fitting lens 14 in the close sealing relation to the housing. Either before or after such assembly, nozzles 15 may be fixed to the brackets 17. When it is desired to replace the light sources 26, lens 14 and disc 23 may be removed so as to allow convenient removal of the lamps 26.

As formed, the entire unit may be placed at any desired location, a water spray line attached to the conduit 18 and the electrical supply line 28 plugged into any convenient source. When the nozzles 15 are supplied with water under pressure, they direct a spray pattern upwardly, outwardly and in circularly spaced relation to the axis of the unit. The revolving disc 23 then directs light of various colors around the axis of the unit and as the disc is revolved this circularly spaced and variously colored pattern of light will revolve around and illuminate the spray pattern dispersed from the nozzles. This tends to produce the illusion of a revolving and constantly changing spray pattern.

Whereas I have shown and described an operative form of the invention, it should be understood that this showing and description thereof should be taken in an illustrative or diagrammatic sense only. There are many modifications in and to the invention which will fall within the scope and spirit thereof and which will be apparent to those skilled in the art. The scope of the invention should be limited only by the scope of the hereinafter appended claims.

I claim:

1. A lawn sprinkling assembly including a supporting housing, said housing having a closed lower end and an opening in the upper portion thereof, a transparent lens positioned across said opening and in sealing relation to the interior of said housing, said lens being positioned coaxially with a vertical axis passed through said housing, nozzle means supported on said housing for directing a dispersed water spray pattern upwardly and outwardly with respect to said housing and said axis, conduit means for supplying water under pressure to said nozzle means, a disc mounted for rotation about said vertical axis within said housing, said disc having a plurality of lenses

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of different colors thereon and angularly spaced with respect to said axis, said disc being in close proximity to said first named lens, a motor supported within said housing for rotating said disc, and a plurality of light sources supported within said housing so as to direct light from said housing simultaneously through said lenses in said disc and outwardly through said first named lens for producing a rotating colored pattern of light and varied lighting effects on the spray pattern emitted by said nozzle means.

2. The structure of claim 1 wherein said housing includes outwardly extending brackets at the upper portion thereof and spaced about the axis of said housing, and said nozzle means includes a plurality of nozzles supported in said brackets, said conduit means being supported from said nozzles.

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3. The structure of claim 1 wherein said housing includes an interior, generally horizontal partition, and said motor is supported on said partition, said light sources being supported on brackets fixed to the interior wall of said housing and positioned between said partition and said disc.

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