

(12) **Patent Application Publication**
Sias

(43) **Pub. Date:** **Aug. 14, 2025**

(52) **U.S. Cl.**
CPC **G09F 13/20** (2013.01)

(57) **ABSTRACT**

Apparatus and associated methods relate to a system for designing an ornamental path that includes at least one photoluminescent object along a predetermined path, the at least one photoluminescent object made from a mixture of resin and photoluminescent powder, and the at least one photoluminescent object operably coupled to a support structure. The photoluminescent object may, for example, include a coupling region. The coupling region may, for example, operably couple the photoluminescent object to the support structure. The support structure may advantageously enable the photoluminescent object to be placed along a path. Various embodiments may advantageously enable the system for designing an ornamental path to design and illuminate an ornamental path for a long period of time. The period may, for example, last from sunset to sunrise.

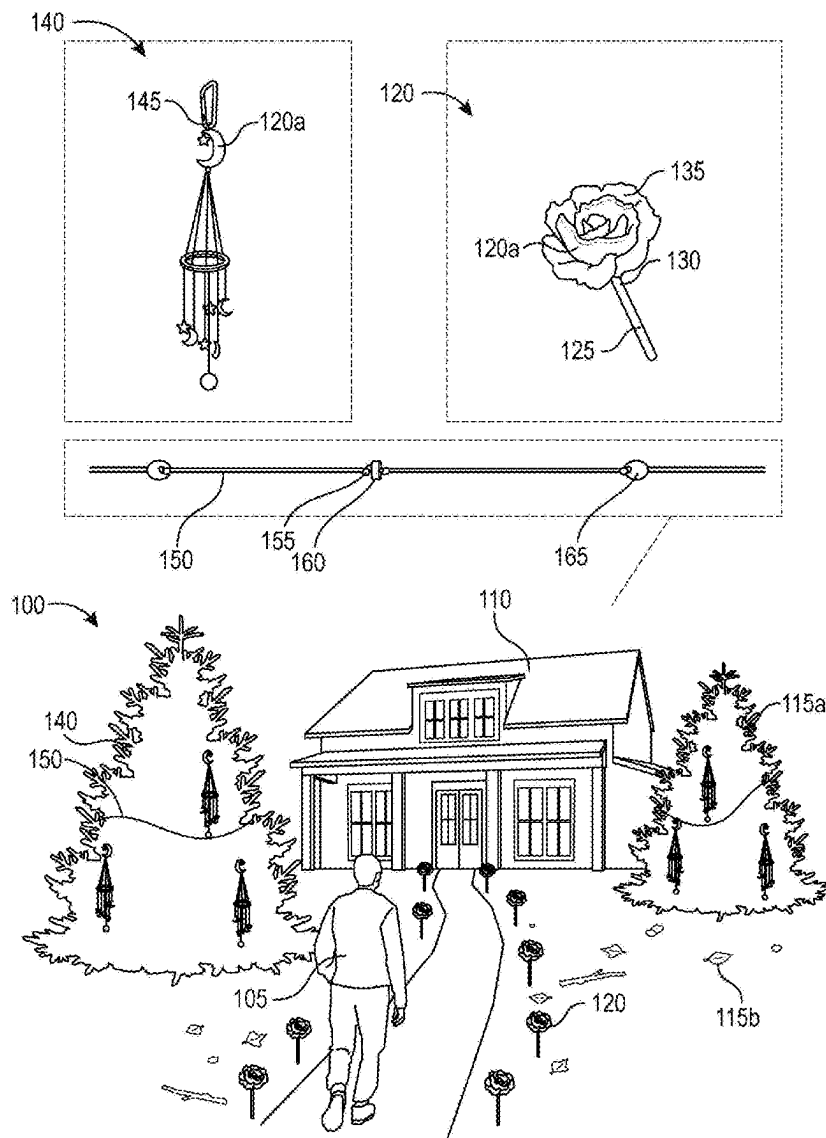
(22) Filed: **Feb. 14, 2025**

Related U.S. Application Data

(60) Provisional application No. 63/553,370, filed on Feb. 14, 2024.

Publication Classification

(51) **Int. Cl.**
G09F 13/20 (2006.01)



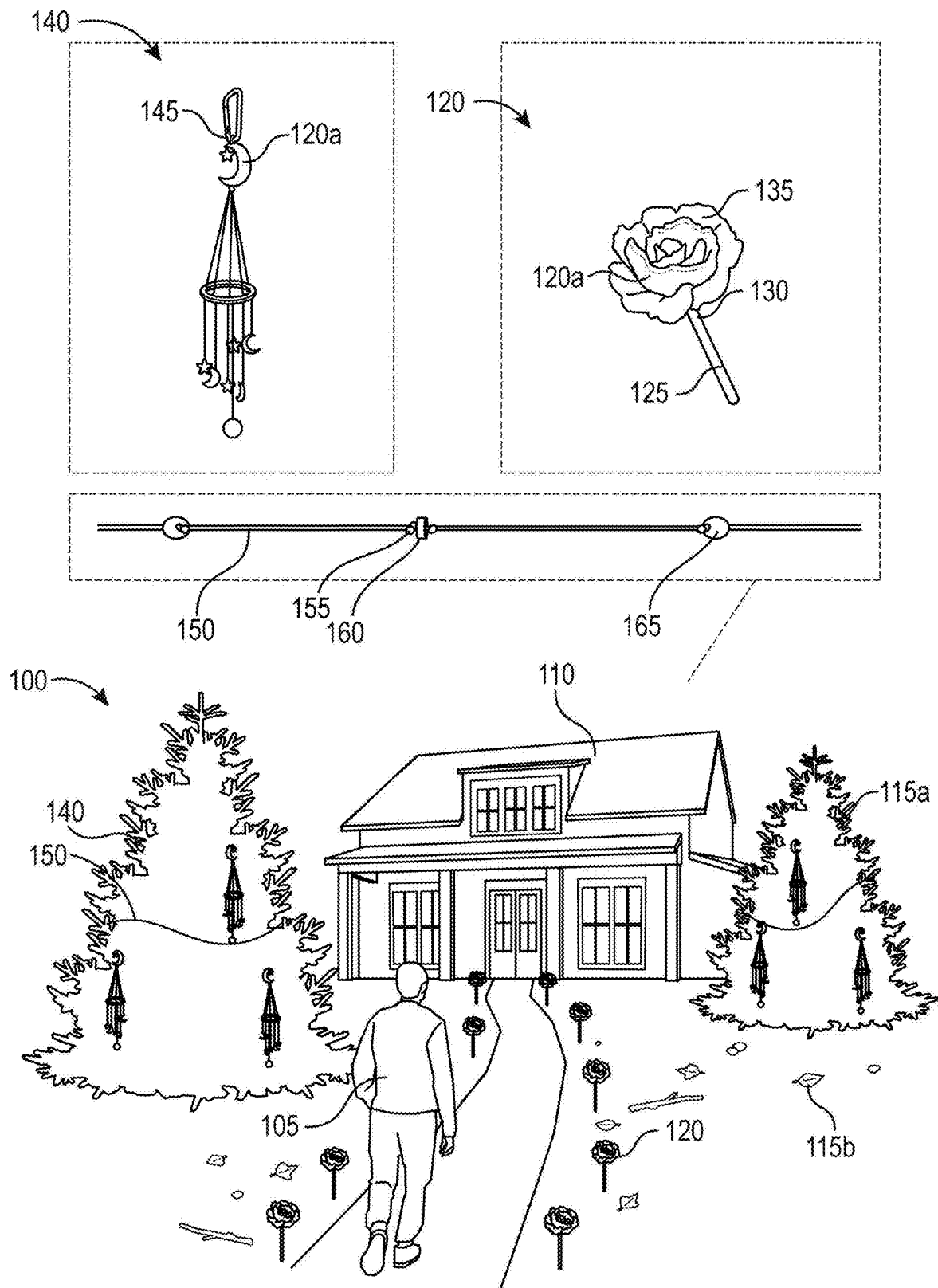


FIG. 1

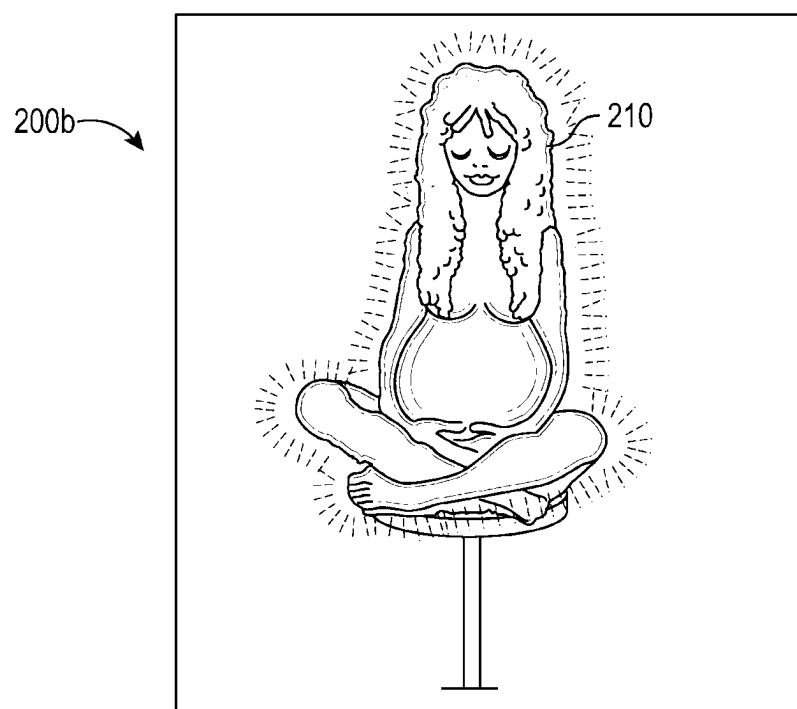
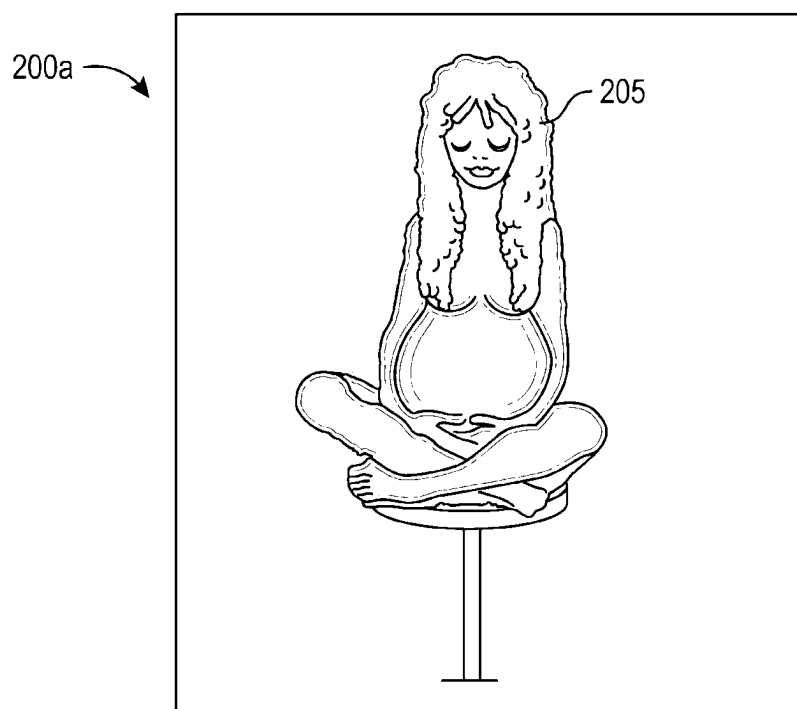


FIG. 2

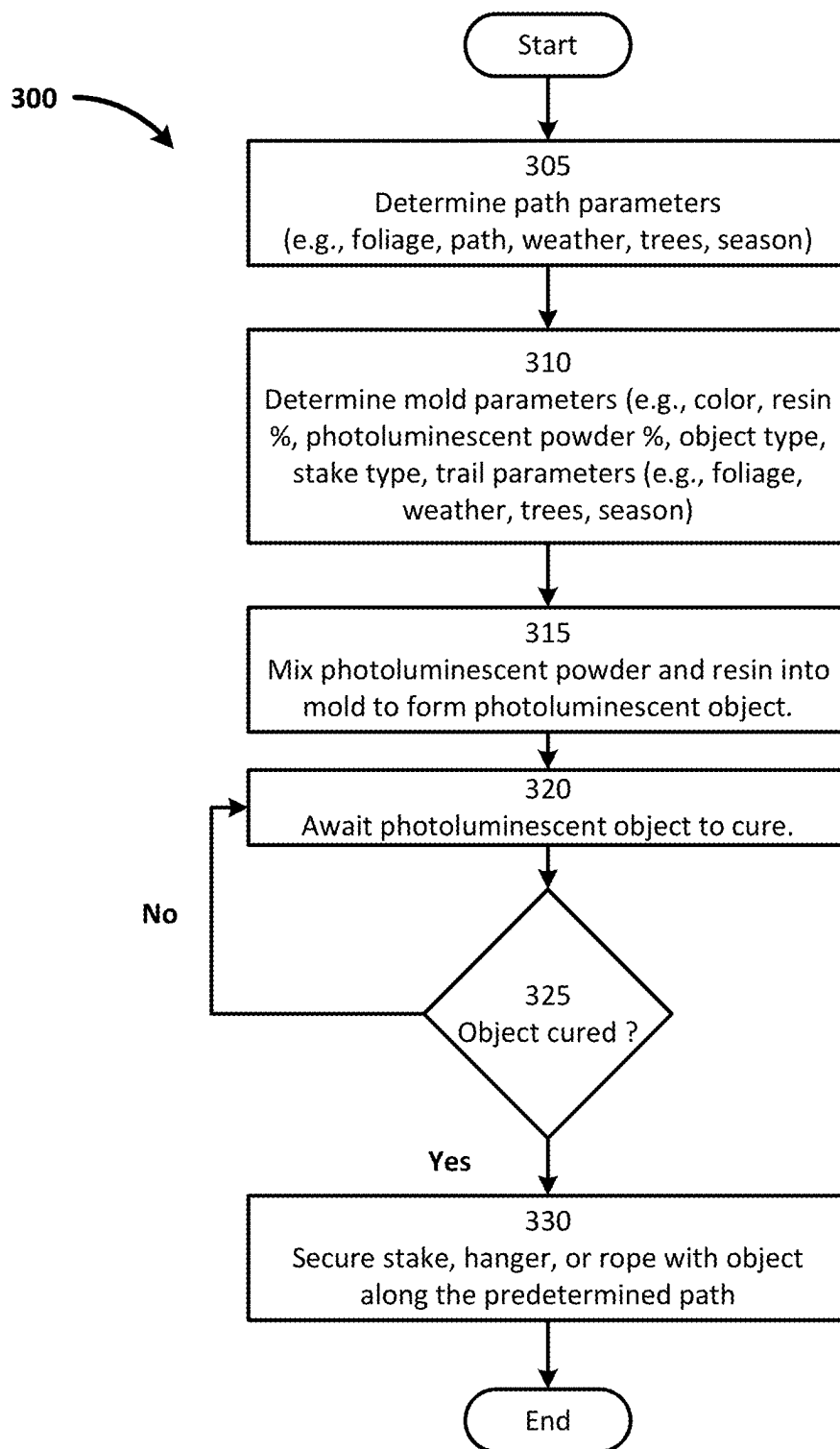


FIG. 3

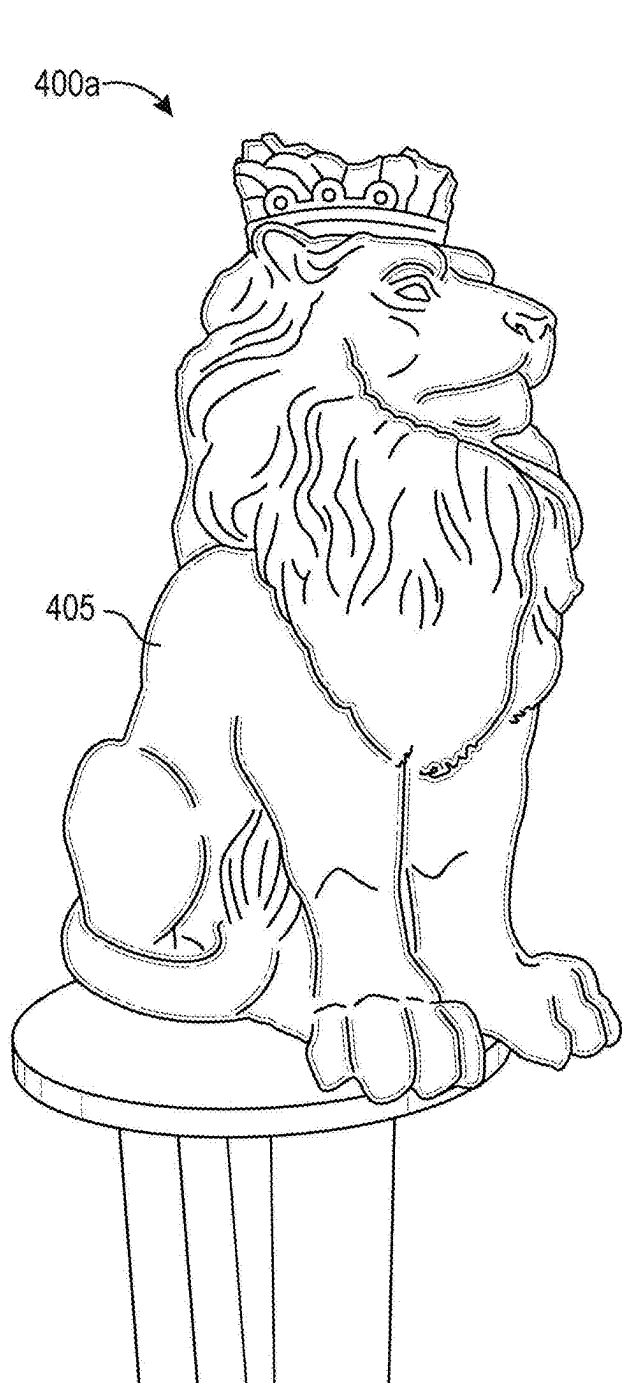


FIG. 4A

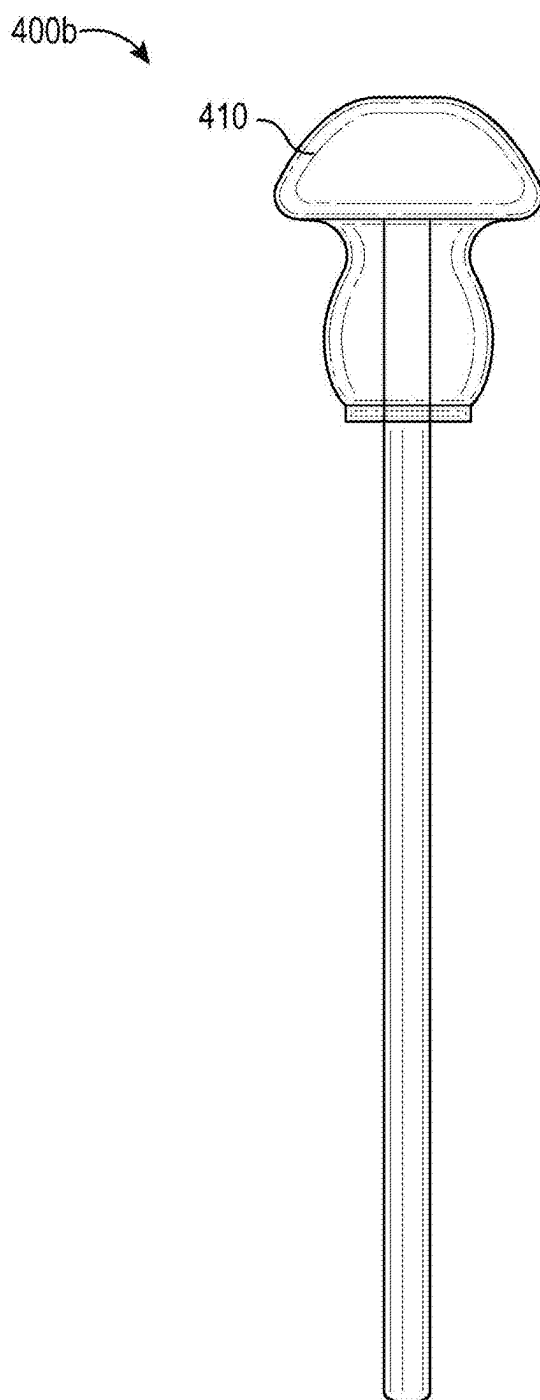


FIG. 4B

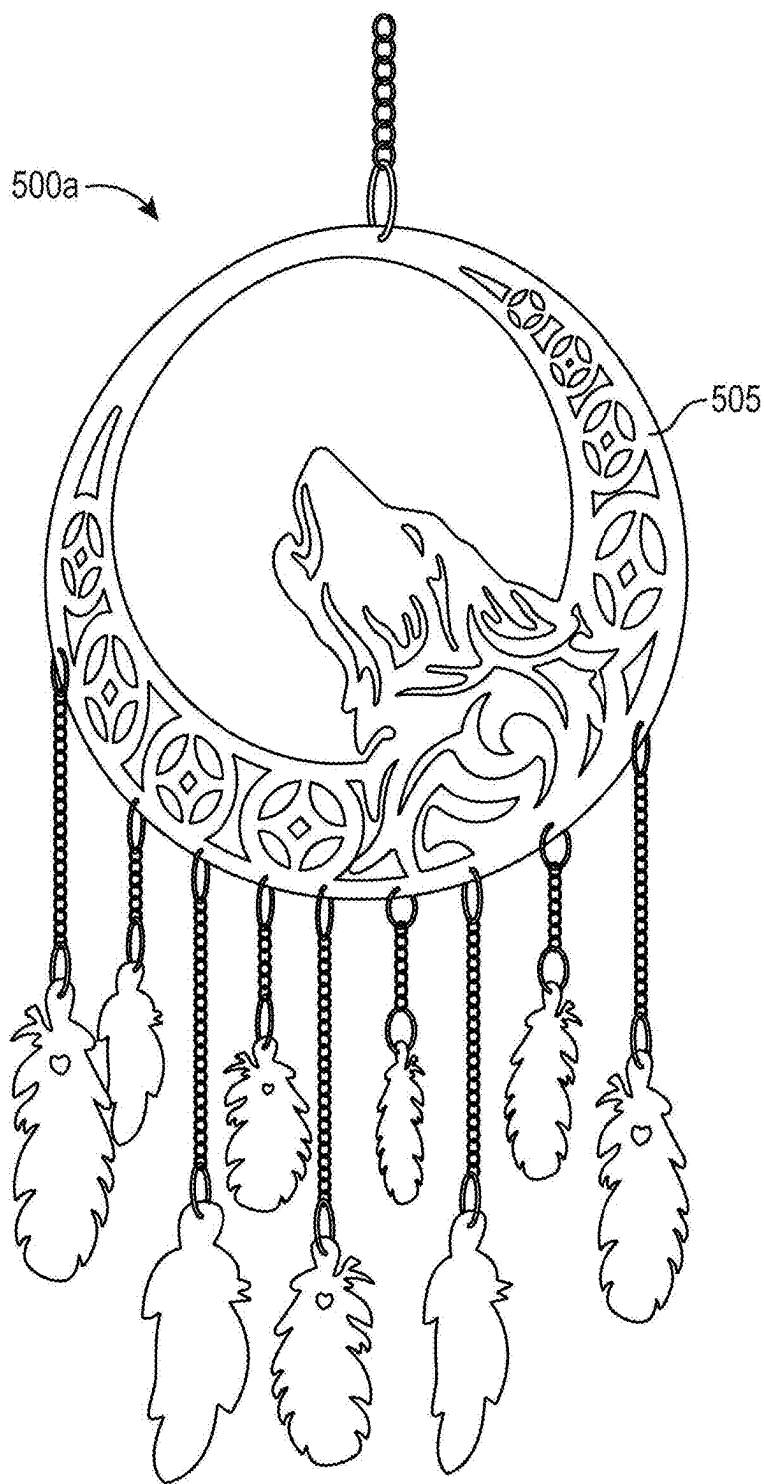


FIG. 5A

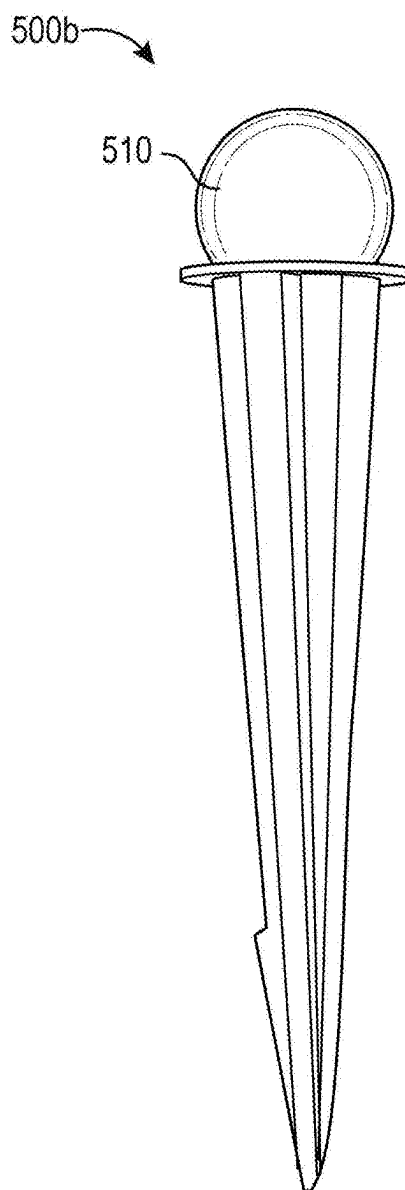


FIG. 5B

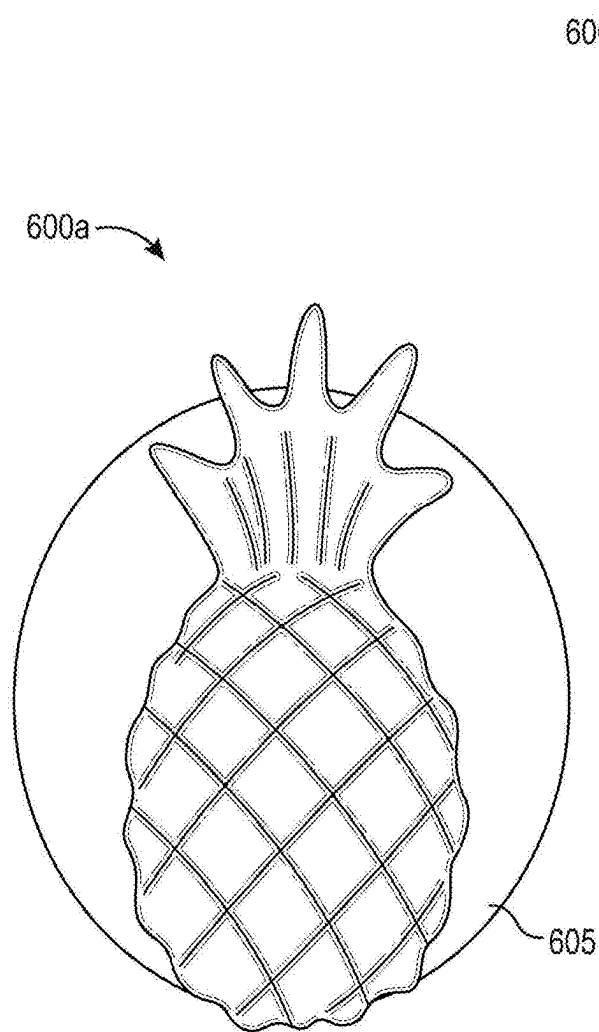


FIG. 6A

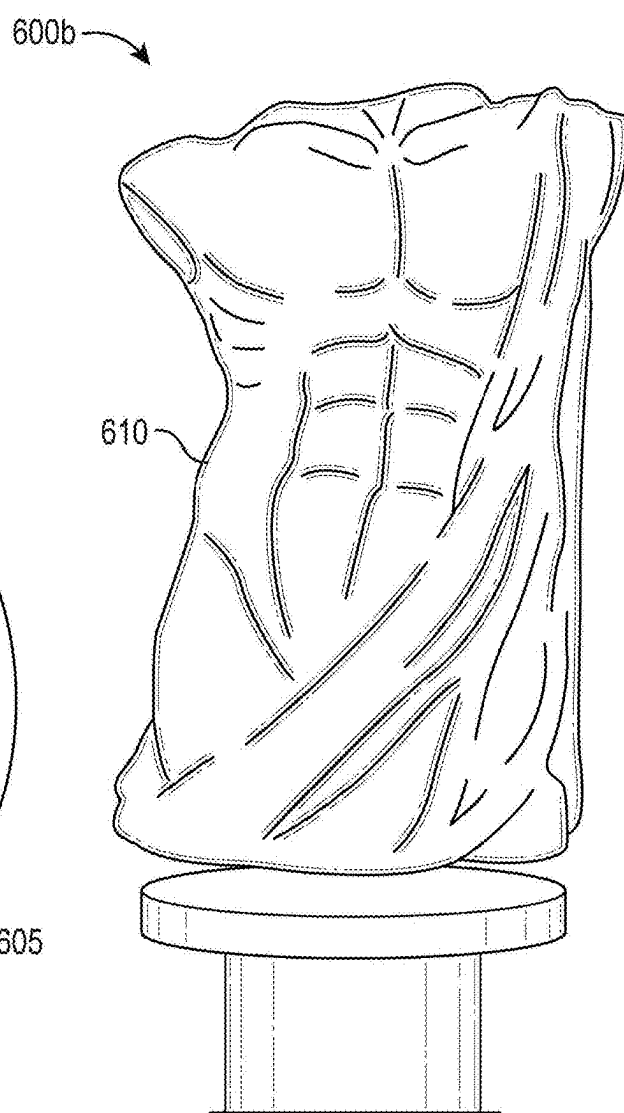


FIG. 6B

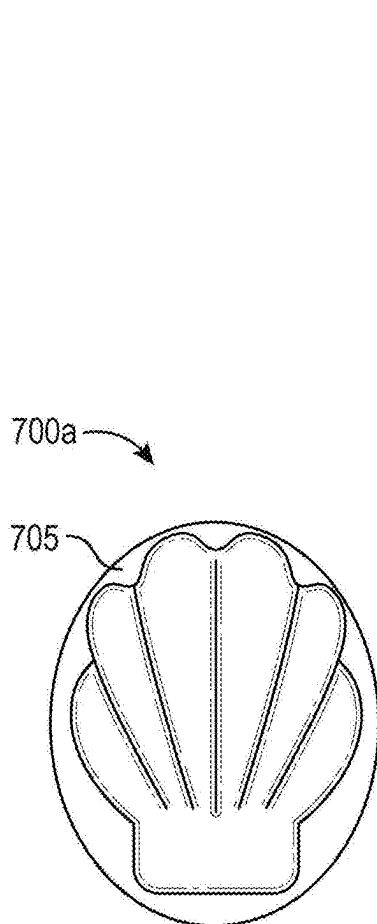


FIG. 7A

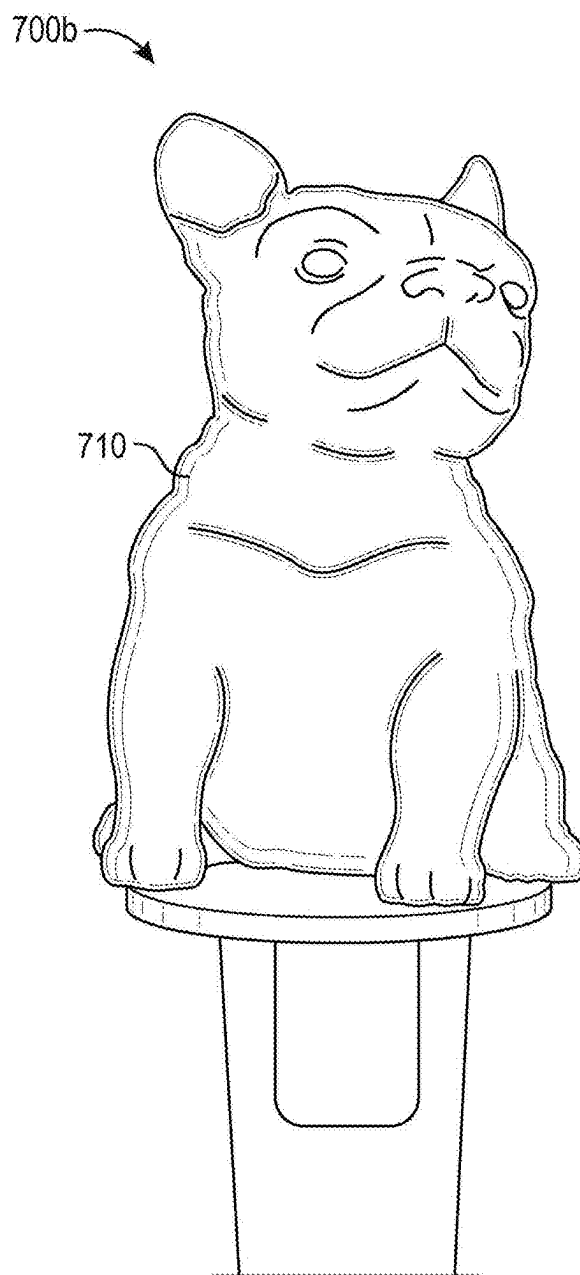


FIG. 7B

FUNCTIONAL TRAIL MARKING SYSTEM FOR THE DARK

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a non-provisional application and claims the benefit of U.S. Application Ser. No. 63/553,370, titled "Photoluminescent Trail Markers," filed by Christina L. Sias on Feb. 14, 2024.

TECHNICAL FIELD

[0002] Various embodiments relate generally to trail and/or path markers.

BACKGROUND

[0003] Physical paths are meticulously planned, structured routes created to facilitate movement. Composed of materials like concrete, asphalt, gravel, or natural surfaces, these designated pathways adhere to specific dimensions, ensuring efficient pedestrian or vehicular traffic. Surface texture is tailored to intended use and environmental factors, considering accessibility and safety. In urban settings, paths form interconnected networks, enhancing transportation between areas. The planning encompasses material selection, dimensions, and environmental factors, resulting in enduring, functional infrastructure.

[0004] Photo luminescence is the absorption and gradual release of light energy as visible light. Photo luminescent materials, also known as phosphorescent or glow-in-the-dark materials, typically contain phosphors that absorb and emit light over time. This property is especially valuable in spaces where sudden power loss could occur. Photo luminescent materials also contribute to decorative and artistic applications, creating unique effects in the absence of external light sources.

[0005] Trail markers are vital elements along paths, providing guidance and information to outdoor enthusiasts. Strategically placed at key points, these markers come in various forms, such as painted symbols, signposts, or colored objects. Signs serve multiple purposes, indicating direction at trail junctions, marking distances, and signaling potential hazards. Colors and symbols are standardized for consistency across trails.

SUMMARY

[0006] Apparatus and associated methods relate to a system for designing an ornamental path that includes at least one photoluminescent object along a predetermined path, the at least one photoluminescent object made from a mixture of resin and photoluminescent powder, and the at least one photoluminescent object operably coupled to a support structure. The photoluminescent object may, for example, include a coupling region. The coupling region may, for example, operably couple the photoluminescent object to the support structure. The support structure may advantageously enable the photoluminescent object to be placed along a path. Various embodiments may advantageously enable the system for designing an ornamental path to design and illuminate an ornamental path for a long period of time. The period may, for example, last from sunset to the sunrise.

[0007] Various embodiments may achieve one or more advantages. For example, some embodiments may advantageously enable the system for designing an ornamental path to be durable. Some embodiments may, for example, advantageously enable the system for designing an ornamental path to endure harsh weather conditions. Some embodiments may, for example, advantageously enable the system for designing an ornamental path to make a path more aesthetically pleasing. Some embodiments may, for example, advantageously enable a user of the system for designing an ornamental path to customize the ornamental style of the ornamental path. Some embodiments may, for example, advantageously enable the system for designing an ornamental path to make a dark path safer by illuminating the dark path.

The details of various embodiments are set forth in the accompanying drawings and the description below. Other features and advantages will be apparent from the description and drawings, and from the claims.

[0008] The details of various embodiments are set forth in the accompanying drawings and the description below. Other features and advantages will be apparent from the description and drawings, and from the claims.

BRIEF DESCRIPTION OF THE DRAWINGS

[0009] FIG. 1 depicts an exemplary system for designing an ornamental path employed in an illustrative use-case scenario.

[0010] FIG. 2 depicts an exemplary illustration of a photoluminescent object glowing in the dark.

[0011] FIG. 3 depicts an exemplary method of fabrication of a system for designing an ornamental path.

[0012] FIG. 4A depicts an exemplary embodiment of an ornamental design of a photoluminescent lion.

[0013] FIG. 4B depicts an exemplary embodiment of an ornamental design of a photoluminescent mushroom.

[0014] FIG. 5A depicts an exemplary embodiment of an ornamental design of a photoluminescent crescent wolf hanging with feathers.

[0015] FIG. 5B depicts an exemplary embodiment of an ornamental design of a photoluminescent spherical object.

[0016] FIG. 6A depicts an exemplary embodiment of an ornamental design of a photoluminescent pineapple.

[0017] FIG. 6B depicts an exemplary embodiment of an ornamental design of a photoluminescent statue.

[0018] FIG. 7A depicts an exemplary embodiment of an ornamental design of a photoluminescent seashell.

[0019] FIG. 7B depicts an exemplary embodiment of an ornamental design of a photoluminescent dog.

[0020] Like reference symbols in the various drawings indicate like elements.

DETAILED DESCRIPTION OF ILLUSTRATIVE EMBODIMENTS

[0021] To aid understanding, this document is organized as follows. First, to help introduce discussion of various embodiments, a system for designing an ornamental path is introduced with reference to FIGS. 1-2. Second, that introduction leads to a description of an exemplary method of fabrication of a system for designing an ornamental path in FIG. 3. Finally, there is a description with reference to FIGS. 4A-7B of some exemplary embodiments of ornamental designs of a photoluminescent object.

[0022] FIG. 1 depicts an exemplary system for designing an ornamental path 100 employed in an illustrative use-case scenario. The illustrative use-case scenario 100 includes a user 105. The user 105 owns a home 110. The home 110 includes a path 115. The path 115 includes trees 115a. The path includes nature elements 115b. The nature elements

115b may, for example, include snow, fallen leaves, and foliage. When it is dark, the user **105** may, as depicted, walk on the path **115**, not see the nature elements **115b**, and get injured by bumping into the nature elements **115b**. Along the path **115**, are placed photoluminescent path markers such as those depicted in **120** and **140**. The photoluminescent path markers **120** include a photoluminescent object **120a**. The photoluminescent object **120a** includes a coupling region **130**. The coupling region **130** is a region where the photoluminescent object **120a** operably couples a support structure, such as the support structures depicted in **125**, **145** and **150**. The support structure may include a stake **125**. The stake **125** may releasably couple the photoluminescent object **120a**. Once operably coupled to the photoluminescent object **120a**, the stake **125** is placed into the ground at a predetermined height such that the photoluminescent object **120a** is above the nature elements **115b**. The support structure may include a hanger **145**, as depicted. The photoluminescent object **120a** operably couples a hanger **145** via the coupling region **130** of the photoluminescent object **120a**. The hanger **145** may releasably couple the photoluminescent object **120a**. The hanger **145** may advantageously enable the photoluminescent object **120a** to hang on the branches of trees **115a**. The placement of the photoluminescent objects **120a** along the path **115** may advantageously enable a user **105** to illuminate and design an ornamental path **115**.

[0023] The support structure may, for example, include a rope **150**. The rope **150** may, for example, operably couple a photoluminescent object **165**. The photoluminescent object **165** may, for example, include holes such that the photoluminescent object **165** may thread through the rope **150**. The rope **150** may, for example, include a series of sets of adjacent beads **155**. The rope may, for example, include a series of sets of adjacent knots **160**. The photoluminescent object **165** may be positioned between a set of adjacent knots **155** and beads **160** such that the photoluminescent object **165** remains locked in a position on the rope **150**.

[0024] The rope **150** may, for example, suspend from a tree **115a**. The rope may, for example, lay along the edges of the path to outline the path. The rope **150** may, for example, drape over arches or trellises that span the width of the ornamental path **115**. The rope **150** may advantageously enable the system for designing an ornamental path to adjust easily to fit paths of various lengths and curvatures. The rope **150** may advantageously enable the system for designing an ornamental path to be lightweight. The rope **150** may advantageously enable the system for designing an ornamental path to be easily coiled and stored for future use.

[0025] FIG. 2 depicts an exemplary illustration of a photoluminescent object glowing in the dark. As depicted in **200A**, the photoluminescent object **205** is not glowing in the light. As depicted in **200B**, the photoluminescent object **210** is glowing in the dark. The photoluminescent objects **205** and **210** may, for example, be made from a mixture of resin and photoluminescent powder. The photoluminescent powder may, for example, provide the photoluminescent object **210** with the ability to glow. The photoluminescent powder may include strontium aluminate doped with europium and dysprosium, for example. The strontium aluminate doped with europium and dysprosium may, for example, advantageously enable the photoluminescent object **210** to glow through phosphorescence. The strontium aluminate doped with europium and dysprosium may, for example, advantageously

enable the photoluminescent object **210** to glow after exposure to a light source (e.g. UV light, sunlight, or artificial light).

[0026] In some implementations, the mixture of resin and photoluminescent powder may, for example, form a thermoset. The thermoset may advantageously enable the photoluminescent object to be durable. The thermoset may advantageously enable the photoluminescent object to endure harsh weather conditions.

[0027] By way of example, and not limitation, the mixture of resin and photoluminescent powder may, for example, include a ratio of 20%-33% photoluminescent powder and 80%-67% resin. By way of example, and not limitation, the mixture of resin and photoluminescent powder may, for example, be made of 2 ounces of resin and 0.4 ounces of photoluminescent powder. The % of photoluminescent powder, and the % of resin determine the number of lumens (e.g., brightness) emitted from a photoluminescent object and/or the length of time a photoluminescent object glows. The mixture of resin and photoluminescent powder may, for example, advantageously enable the photoluminescent object to glow for long periods of time. The long period of time may, for example, last from sunset till. The mixture of resin and photoluminescent powder may, for example, advantageously enable the photoluminescent object to be ecofriendly.

[0028] FIG. 3 depicts an exemplary method **300** of fabrication of an exemplary system for designing an ornamental path. A user may, for example, use the exemplary method **300** to fabricate an ornamental path. In step **305**, a user determines the path parameters. The path parameters may, for example, include the foliage type (e.g., bushes, sticks, leaves), weather (climate for trail, rainy, sunny, dry, humid), season (winter, fall, spring, and/or summer).

[0029] In step **310**, a user determines the mold parameters. The mold parameters may, for example, be based on the path parameters determined in step **305**. The mold parameters may, for example, include color, resin %, photoluminescent %, object type, take type, path parameters. A user may, for example, create the mold to be more water resistant in wet climates. A user may, for example, create the mold to stand out in comparison to elements of the path. Paths may, for example, be created such that they do not need routine care and are long lasting. A user may, for example, craft the photoluminescent object to be 25% photoluminescent powder and 75% resin. A user may, for example, craft the photoluminescent object to be 33% photoluminescent powder and 67% resin. A user may, for example, craft the photoluminescent object to be 20% photoluminescent powder and 80% resin.

[0030] In step **315**, a user may, for example, mix the photoluminescent powder and resin into a mold. In step **320**, a user awaits the photoluminescent object to cure. The curing time may, for example, include an hour. The curing time may, for example, include 6 hours. The curing time may, for example, include 12 hours. Some embodiments may, for example, introduce a quick curing embodiment that cures within a shorter period.

[0031] In step **325**, a user may, for example, determine whether the mold has cured and proceed to step **330**. In step **325**, a user may, for example, determine the mold has not cured and await the photoluminescent objects to be cured.

[0032] In step **330**, a user secures the photoluminescent object to a stake, hanger, or rope along the predetermined

path. In some embodiments, the stake, hanger, or rope may be cured onto the mold. In some embodiments the stake, hanger, or rope may, for example, be separate from the photoluminescent object. In some embodiments, a user may, for example, change out different photoluminescent objects onto the stake, hanger, or rope.

[0033] FIG. 4A depicts an exemplary embodiment of an ornamental design of a photoluminescent lion **400A**. The photoluminescent lion **400A** includes a photoluminescent object **405**. The photoluminescent lion may, for example, operably a stake, as depicted. The photoluminescent lion **400A** may, for example, couple a hanger. The photoluminescent lion **400A** may, for example couple a rope. The photoluminescent lion **400A** may, for example, be positioned along a garden. The photoluminescent lion **400A** may, for example, be positioned along a trail. The photoluminescent lion **400A** may, for example, be positioned along a road. The photoluminescent lion **400A** may, for example, be positioned along a driveway.

[0034] FIG. 4B depicts an exemplary embodiment of an ornamental design of a photoluminescent mushroom **400B**. The photoluminescent mushroom **400B** includes a photoluminescent object **410**. The photoluminescent mushroom **400B** may, for example, operably a stake, as depicted. The photoluminescent mushroom **400B** may, for example, couple a hanger. The photoluminescent mushroom **400B** may, for example couple a rope. The photoluminescent mushroom **400B** may, for example, be positioned along a garden. The photoluminescent mushroom **400B** may, for example, be positioned along a trail. The photoluminescent mushroom **400B** may, for example, be positioned along a road. The photoluminescent mushroom **400B** may, for example, be positioned along a driveway.

[0035] FIG. 5A depicts an exemplary embodiment of an ornamental design of a photoluminescent crescent wolf hanging with feathers **500A**. The photoluminescent crescent wolf hanging with feathers **500A** includes a photoluminescent object **505**. The photoluminescent crescent wolf hanging with feathers **500A** may, for example, operably a stake. The photoluminescent crescent wolf hanging with feathers **500A** may, for example, couple a hanger, as depicted. The photoluminescent crescent wolf hanging with feathers **500A** may, for example couple a rope. The photoluminescent crescent wolf hanging with feathers **500A** may, for example, be positioned along a garden. The photoluminescent crescent wolf hanging with feathers **500A** may, for example, be positioned along a trail. The photoluminescent crescent wolf hanging with feathers **500A** may, for example, be positioned along a road. The photoluminescent crescent wolf hanging with feathers **500A** may, for example, be positioned along a driveway.

[0036] FIG. 5B depicts an exemplary embodiment of an ornamental design of a photoluminescent spherical object **500B**. The photoluminescent spherical object **500B** includes a photoluminescent object **510**. The photoluminescent spherical object **500B** may, for example, operably a stake, as depicted. The photoluminescent spherical object **500B** may, for example, couple a hanger. The photoluminescent spherical object **500B** may, for example couple a rope. The photoluminescent spherical object **500B** may, for example, be positioned along a garden. The photoluminescent spherical object **500B** may, for example, be positioned along a trail. The photoluminescent spherical object **500B** may, for

example, be positioned along a road. The photoluminescent spherical object **500B** may, for example, be positioned along a driveway.

[0037] FIG. 6A depicts an exemplary embodiment of an ornamental design of a photoluminescent pineapple **600A**. The photoluminescent pineapple **600A** includes a photoluminescent object **605**. The photoluminescent pineapple **600A** may, for example, operably a stake, as depicted. The photoluminescent pineapple **600A** may, for example, couple a hanger. The photoluminescent pineapple **600A** may, for example couple a rope. The photoluminescent pineapple **600A** may, for example, be positioned along a garden. The photoluminescent pineapple **600A** may, for example, be positioned along a trail. The photoluminescent pineapple **600A** may, for example, be positioned along a road. The photoluminescent pineapple **600A** may, for example, be positioned along a driveway.

[0038] FIG. 6B depicts an exemplary embodiment of an ornamental design of a photoluminescent statue **600B**. The photoluminescent statue **600B** includes a photoluminescent object **610**. The photoluminescent statue **600B** may, for example, operably a stake, as depicted. The photoluminescent statue **600B** may, for example, couple a hanger. The photoluminescent statue **600B** may, for example couple a rope. The photoluminescent statue **600B** may, for example, be positioned along a garden. The photoluminescent statue **600B** may, for example, be positioned along a trail. The photoluminescent statue **600B** may, for example, be positioned along a road. The photoluminescent statue **600B** may, for example, be positioned along a driveway.

[0039] FIG. 7A depicts an exemplary embodiment of an ornamental design of a photoluminescent seashell **700A**. The photoluminescent seashell **700A** includes a photoluminescent object **705**. The photoluminescent seashell **700A** may, for example, operably a stake, as depicted. The photoluminescent seashell **700A** may, for example, couple a hanger. The photoluminescent seashell **700A** may, for example couple a rope. The photoluminescent seashell **700A** may, for example, be positioned along a garden. The photoluminescent seashell **700A** may, for example, be positioned along a trail. The photoluminescent seashell **700A** may, for example, be positioned along a road. The photoluminescent seashell **700A** may, for example, be positioned along a driveway.

[0040] FIG. 7B depicts an exemplary embodiment of an ornamental design of a photoluminescent dog **700B**. The photoluminescent dog **700B** includes a photoluminescent object **710**. The photoluminescent dog **700B** may, for example, operably a stake, as depicted. The photoluminescent dog **700B** may, for example, couple a hanger. The photoluminescent dog **700B** may, for example couple a rope. The photoluminescent dog **700B** may, for example, be positioned along a garden. The photoluminescent dog **700B** may, for example, be positioned along a trail. The photoluminescent dog **700B** may, for example, be positioned along a road. The photoluminescent dog **700B** may, for example, be positioned along a driveway.

[0041] In some embodiments, the photoluminescent **120a** object may, for example, operably couple a stake **125**. The stake **125** may, for example, be placed into the ground at a predetermined height. The stake **125** may, for example, include powder-coated aluminum stakes. The powder-coated aluminum stake may advantageously enable the stake **125** to be durable. The powder-coated aluminum stake may

advantageously enable the stake 125 to maintain its original appearance for longer periods of time. The powder-coated aluminum stake may advantageously enable the stake 125 to be resistant to weather and environmental factors. The powder-coated aluminum stake 125 may advantageously enable the stake 125 to be eco-friendly. The powder-coated aluminum stake may advantageously enable the stake to not rust.

[0042] In some embodiments, the stake 125, may, for example include a coupling module. The coupling module may advantageously enable the stake 125 to couple the photoluminescent object 120a. irremovably. The coupling module may advantageously enable the stake 125 to releasably couple the photoluminescent object 120a. For example, the coupling module may include complimentary threads on both the stake 125 and photoluminescent object 120a, such that the photoluminescent object 120a may screw into the stake 125. The coupling module may, for example, include a snapping mechanism such that the photoluminescent object 120a snaps into the stake 125. The coupling module may, for example, include a sliding mechanism, such that the photoluminescent object 120a snaps into the stake 125.

[0043] In some embodiments, the stake 125, may, for example include a spring. The spring may, for example, advantageously enable the stake to remain in place if hit by something, for example, a car or animal.

[0044] In some embodiments, the photoluminescent 120a object may, for example, operably couple a hanger. The hanger 145 may releasably couple the photoluminescent object 120a. The hanger 145 may irremovably couple the photoluminescent object 120a. The hanger may, for example suspend from a tree 115a. The hanger 145 may, for example, suspend from a pole. The hanger 145 may, for example, suspend from a hooks lining. The hanger 145 may, for example suspend from an arch or trellis. The hanger 145 may, for example, suspend from a fence. The hanger 145 may, for example, suspend from a baby's crib. The hanger 145 may, for example, suspend from a house. The hanger 145 may advantageously enable the photoluminescent object 120a to hang from structures. The hanger 145 may advantageously enable the photoluminescent object 120a to avoid cluttering a path with objects. The hanger 145 may advantageously enable the photoluminescent object 120a to avoid being stepped on or damaged.

[0045] In an exemplary embodiment, a system for designing an ornamental path may include a garden as the path. The system for designing an ornamental path may advantageously enable a user to decorate a garden. The system for designing an ornamental path may advantageously enable a user to see and locate various plants within the garden through illuminating the garden.

[0046] In an exemplary embodiment, a system for designing an ornamental path may include a trail as the path. The photoluminescent object may, for example, act as trail markers. The trail markers may, for example, be determined to provide the optimal safety based on the marker color, trail path, object, and number of markers. Some trail markers may, for example, be operated in a system to facilitate safe parking in dark unlit areas for motor vehicles. The trail markers may, for example, be designed to operate in forest conditions. The trail markers may, for example, be designed to operate on hills. The trail markers may, for example, be used to mark different trail types (e.g., grass path, asphalt, gravel, rocky, slippery).

[0047] In an exemplary embodiment, a system for designing an ornamental path may include a road as a path. The photoluminescent object may, for example, illuminate road signs. The photoluminescent object may, for example, illuminate billboards.

[0048] In an exemplary embodiment, a system for designing an ornamental path may include a driveway as a path. The system for designing an ornamental path may, for example, be utilized as Christmas decorations (e.g., Santa clause, sleds, reindeer, etc.), Valentines Day decorations (e.g. heart, cupid, etc.), fall decorations (e.g., fallen leaves, turkeys, etc.), 4th of July decorations (flags, stars, cannons, etc.). Different colors may, for example, be used for the photoluminescent objects in color coordination (e.g., red and green for Christmas; red, white, and blue for 4th of July; pink for Valentines Day).

[0049] Although various embodiments have been described with reference to the figures, other embodiments are possible.

[0050] Although an exemplary system has been described with reference to FIG. 1-7, other implementations may be deployed in other industrial, scientific, medical, commercial, and/or residential applications. For example, the system may illuminate pathways in airports to guide passengers to gates, baggage claim, or exits. The system may, for example, delineate safe zones and guide workers or equipment in industrial settings.

[0051] A number of implementations have been described. Nevertheless, it will be understood that various modifications may be made. For example, advantageous results may be achieved if the steps of the disclosed techniques were performed in a different sequence, or if components of the disclosed systems were combined in a different manner, or if the components were supplemented with other components. Accordingly, other implementations are contemplated within the scope of the following claims.

What is claimed is:

1. A system for designing an ornamental path comprising:
 - a plurality of photoluminescent path markers extending along a predetermined path, the path marker comprising:
 - at least one photoluminescent object made from a mixture of resin and photoluminescent powder, wherein the photoluminescent object is configured to emit light in the dark;
 - a coupling region on the photoluminescent object; and
 - at least one stake structure extending along a longitudinal direction comprising a corresponding stake coupling region at a top end of the stake structure configured to receive at least one photoluminescent object; and,
 - at least one corresponding hanging structure comprising a hanger comprising a corresponding coupling region operably coupled to the coupling region.
2. The system of claim 1, wherein at least one hanging structure comprises a photoluminescent rope system comprising:
 - a rope with two or more photoluminescent objects comprising holes to receive the rope;
 - and,
 - a series of sets of adjacent knots situated between adjacent sides of the rope extending along the path for the two or more threaded photoluminescent objects.

3. The system of claim 1, wherein the photoluminescent object includes a person.

4. The system of claim 1, wherein the photoluminescent object includes a mushroom.

5. The system of claim 1, wherein the photoluminescent object includes a bulb.

6. The system of claim 1, wherein the photoluminescent object includes a fruit.

7. The system of claim 1, wherein the photoluminescent object includes a shell.

8. The system of claim 1, wherein the photoluminescent object includes a statue.

9. The system of claim 1, wherein the photoluminescent object includes an animal.

10. The system of claim 1, wherein the mixture of resin and photoluminescent powder comprises 20%-33% photoluminescent powder and 80%-67% resin.

11. The system of claim 1, wherein the predetermined path extends along a trail.

12. The system of claim 1, wherein at least one photoluminescent object is removably coupled to the at least one stake structure.

13. The system of claim 1, wherein at least one photoluminescent object is removably coupled to at least one corresponding hanging structure.

14. A system for designing an ornamental path comprising:

a plurality of photoluminescent path markers extending along a predetermined path, the path marker comprising:

at least one photoluminescent object made from a mixture of resin and photoluminescent powder, wherein the photoluminescent object is configured to emit light in the dark from sunset till sunrise;

a coupling region on the photoluminescent object;

at least one stake structure extending along a longitudinal direction comprising a corresponding stake coupling region at a top end of the stake structure configured to receive at least one photoluminescent object; and,

at least one corresponding hanging structure comprising a hanger corresponding coupling region operably coupled to the coupling region.

15. The system of claim 14, wherein at least one hanging structure comprises a photoluminescent rope system comprising:

a rope with two or more photoluminescent objects comprising holes to receive the rope; and,

a series of sets of adjacent knots situated between adjacent sides of the rope extending along the path for the two or more threaded photoluminescent objects

16. The system of claim 15, wherein the mixture of resin and photoluminescent powder comprises 20%-33% photoluminescent powder and 80%-67% resin.

17. The system of claim 15, wherein the photoluminescent object is removably coupled to the at least one stake structure.

18. The system of claim 15, wherein at least one photoluminescent object is removably coupled to at least one corresponding hanging structure

19. The system of claim 15, wherein the predetermined path extends along a trail.

20. A method for designing an ornamental path, comprising:

determining path parameters, including foliage type, weather conditions, and season;

determining mold parameters based on the path parameters, including color, resin percentage, photoluminescent powder percentage, and object type;

mixing photoluminescent powder and resin into a mold according to the determined parameters;

allowing the mixture to cure for a predetermined period;

securing the cured photoluminescent object to a stake, hanger, or rope along the predetermined path; and,

placing the stake into the ground or suspending the hanger from a structure, such that the photoluminescent object is positioned to illuminate the path.

* * * * *