

CLAIMS:

1. A system for guiding a vehicle, comprising:

a plurality of paths on a surface, wherein each path is defined by ultraviolet (UV) reactive paint configured to emit visible light in response to UV light, wherein the UV reactive paint defining each path of the plurality of paths is configured to emit visible light at a unique wavelength in response to the UV light relative to other paths of the plurality of paths;

a vehicle configured to hold a passenger, wherein the vehicle comprises:

a UV source configured to emit UV light;

a sensor configured to detect the visible light emitted by the UV reactive paint of a respective path of the plurality of paths; and

a controller configured to guide the vehicle along the respective path based on a wavelength of the visible light detected by the sensor.

2. The system for guiding ~~the~~ a vehicle of claim 1, wherein the plurality of paths and the visible light emitted by the UV reactive paint along the plurality of paths is not visible to a passenger in the vehicle.

3. The system for guiding a vehicle of claim 1, wherein the UV reactive paint defining each path of the plurality of paths is coated in sheen leveler to hide the respective path.

~~4. The system for guiding a vehicle of claim 1, wherein the UV reactive paint defining each path of the plurality of paths is configured to emit visible light at a unique wavelength in response to the UV light relative to other paths of the plurality of paths.~~

4. The system for guiding a vehicle of

~~5.~~ The system for guiding a vehicle of claim 1, wherein the controller is configured to determine which path of the plurality of paths to guide the vehicle along based on an input received from the passenger, wherein the input is associated with a specific wavelength of visible light.

~~5. 6.~~ The system for guiding a vehicle of ~~claim 54~~, wherein the controller is configured to receive the input during movement along the path of the plurality of paths, and to change which path of the plurality of paths to guide the vehicle along based on the input.

~~7. 6.~~ The system for guiding a vehicle of ~~claim 1~~, wherein the UV reactive paint disposed along the respective path of the plurality of paths is configured to emit visible light at different wavelengths at different locations along the respective path.

~~8.~~ 7. The system for guiding a vehicle of ~~claim 76~~, wherein the different wavelengths represent different speeds for the vehicle along the respective path, and the controller is configured to adjust a speed of the vehicle along the respective path based on a change in the wavelength of the emitted visible light.

~~9.~~ 8. The system for guiding a vehicle of ~~claim 76~~, wherein the controller is configured to cause the vehicle to spin based on a change in the wavelength of the emitted visible light.

~~10.~~ 9. The system for guiding a vehicle of ~~claim 1~~, further comprising a plurality of vehicles disposed on different paths of the plurality of paths, and respective controllers of the plurality of vehicles are configured to guide the plurality of vehicles on the plurality of paths concurrently.

10.

~~11.~~ The system for guiding a vehicle of claim 1, wherein the respective path of the plurality of paths comprises a center portion comprising a first UV reactive paint configured to emit visible light at a first wavelength and a first portion flanking the center portion comprising a second UV reactive paint configured to emit visible light at a second wavelength.

11. ~~12.~~ The system for guiding a vehicle of claim ~~11~~10, wherein the controller is configured to guide the vehicle back to the center portion of the respective path of the plurality of paths in response to detection of the second wavelength.

12.

~~13.~~ A system for guiding a vehicle, comprising:

a plurality of paths on a surface, wherein each path is defined by ultraviolet (UV) reactive paint configured to emit visible light in response to UV light, wherein the UV reactive paint defining each path of the plurality of paths is configured to emit visible light at a unique wavelength in response to the UV light relative to other paths of the plurality of paths; and

a plurality of vehicles, ~~wherein each vehicle of the plurality of vehicles is~~ configured to hold a respective passenger and comprises:

a UV source configured to emit UV light;

a sensor configured to detect the visible light emitted by the UV reactive paint of a respective path of the plurality of paths; and

a controller configured to guide the vehicle along the respective path based on a wavelength of the visible light detected by the sensor;

wherein the UV reactive paint of each path of the plurality of paths is configured to emit visible light at a different wavelength in response to the UV light than the wavelengths of visible light emitted by other paths of the plurality of paths, and each vehicle is configured to move along a different path.

~~14.~~ 13. The system for guiding a vehicle of ~~claim 13~~12, wherein the plurality of vehicles is configured to move along the plurality of paths concurrently.

14.

~~15.~~ The system for guiding a vehicle of ~~claim 13~~12, wherein the plurality of paths and the visible light emitted by UV reactive paint along the plurality of paths is not visible to passengers in the plurality of vehicles.

~~15.~~ ~~16.~~ The system for guiding a vehicle of ~~claim 13~~12, wherein the controller is configured to change which path of the plurality of paths to guide the vehicle along based on an input received from the respective passenger during movement along the path of the plurality of paths, wherein the input is associated with a specific wavelength of visible light.

16. ~~17.~~ The system for guiding a vehicle of ~~claim 13~~12, wherein the UV reactive paint disposed along the respective path of the plurality of paths is configured to emit visible light at different wavelengths at different locations along the respective path of the plurality of paths.

17.

~~18.~~ The system for guiding a vehicle of ~~claim 17~~16, wherein the different wavelengths represent different speeds for the vehicle along the respective path of the plurality of paths, and the controller is configured to adjust a speed of the vehicle along the respective path of the plurality of paths based on a change in wavelength of the emitted visible light.

18.

~~19.~~ A method for guiding a vehicle, comprising:

obtaining, at a controller of a vehicle, a wavelength of a visible light to guide the vehicle along a path, wherein the path is among a plurality of paths on a surface, and each path among the plurality of paths is defined by ultraviolet (UV) reactive paint configured to emit

visible light at a ~~different~~unique wavelength in response to UV light relative to other paths of the plurality of paths, and wherein the vehicle is configured to hold a passenger;

emitting UV light, via a UV source on the vehicle, at the path;

detecting, via a sensor on the vehicle, the wavelength of the visible light emitted in response to the UV light; and

guiding, via the controller, the vehicle along the path among the plurality of paths based on the wavelength of the visible light detected by the sensor.

19.

~~20.~~ The method for guiding at the vehicle of ~~claim 18~~claim 19, further comprising guiding a plurality of vehicles along the plurality of paths concurrently, wherein the controllers of the plurality of vehicles guide the plurality of vehicles along different paths based on different wavelengths of detected visible light.

20. The method for guiding the vehicle of claim 18, wherein obtaining, at the controller of the vehicle, the wavelength of the visible light to guide the vehicle along the path comprises receiving an input from the passenger that selects the wavelength.