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- (54) **Title:** ULTRAVIOLET PAINT-BASED VEHICLE GUIDANCE

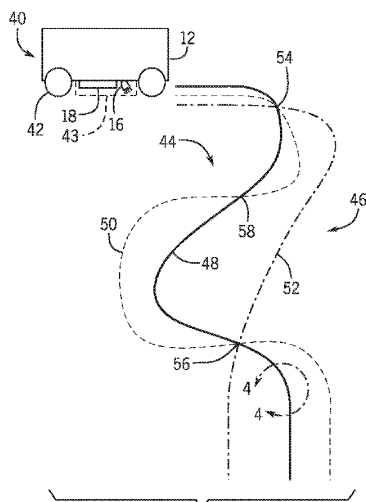


FIG. 2

(57) **Abstract:** A system for guiding a vehicle is provided. The system includes multiple paths on a surface, wherein each path is defined by ultraviolet (UV) reactive paint configured to emit visible light in response to UV light. The system also includes the vehicle. The vehicle includes 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 multiple 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.

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