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(54) **SOLAR PANEL BASED INDOOR LOW POWER SENSORS**

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(57) **ABSTRACT**

A system and associated method include a housing that includes a sensor, a transmitter, and a power source. A solar panel is configured to receive light energy from an artificial light source to generate an electrical charge. An electrical connection may convey the electrical charge to the power source to energize the sensor, and a fastener fixates the solar panel within 10 cm of the artificial light source. The solar panel may be further positioned with respect to the housing and the artificial light source. For instance, the solar panel may be positioned so as to minimally obstruct visible light from the artificial light source within an area to be illuminated. The housing may comprise part of an Internet of Things (IOT) device.