

## Staggered 2D LEDs for Multi Purpose Lighting

**Track Code:** 2020-KUBI-68730

**Categories:**

- Electrical Engineering

**Keywords:**

- Antibacterial
- Energy Efficient
- LEDs
- Lightwaves

Researchers at Purdue University have developed a 2D LED technology which can be integrated into furniture, flooring or other surfaces and can provide both surface disinfection using UVC and ambient decorative lighting with changeable color. Having a lighting source which is long-lasting, energy efficient and pliable built into parts of a room has significant promise, especially for applications such as hospitals, restaurants, commercial buildings, and homes.

**Advantages:**

- Provides shadowless disinfection
- Provides ambient lighting with switchable color built into furniture or other surfaces

**Potential Applications:**

- Hospitals
- Restaurants/bars
- Homes/offices

**People:**

- Kubis, Tillmann C (Project leader)

**Intellectual Property:**

**Application Date:** August 21, 2020

**Type:** PCT-Patent

**Country of Filing:** WO

**Patent Number:** (None)

**Issue Date:** (None)

**Application Date:** May 1, 2020

**Type:** Utility Patent

**Country of Filing:** United States  
**Patent Number:** (None)  
**Issue Date:** (None)

**Application Date:** August 21, 2019  
**Type:** Provisional-Patent  
**Country of Filing:** United States  
**Patent Number:** (None)  
**Issue Date:** (None)

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