

## Photoswitchable Fullerene-Based Materials

### SUMMARY

The University of Texas at El Paso seeks a partner for licensing photo-switchable fullerene-based materials to be used as interfacial layers in organic photovoltaic devices.



### TECHNOLOGY

This invention focuses on a fullerene-based layer for use between the anode and cathode layers of an organic photovoltaic device. This fullerene-based layer acts to reject electron conductance to the electrode, which increases charge extraction from the photo-active layer.

### ADVANTAGES

- Higher efficiency
- Cheaper manufacturing



### APPLICATION

- Electronics
- Power generation
- Alternative energy

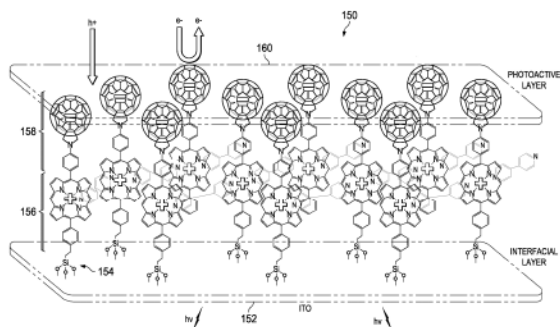


Figure: Photo-switched fullerene-based IFL anchored by silicon moieties to the ITO electrode in the form of a self-assembled monolayer (SAM).

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### PATENT STATUS

Patent Pending US2013/0074920 

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Ref. #: 2011-014