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(54) **Title:** TRANSPARENT INFRARED-TO-VISIBLE UP-CONVERSION DEVICE

(57) **Abstract:** Embodiments of the invention are directed to a transparent up-conversion device having two transparent electrodes. In embodiments of the invention, the up-conversion device comprises a stack of layers proceeding from a transparent substrate including an anode, a hole blocking layer, an IR sensitizing layer, a hole transport layer, a light emitting layer, an electron transport layer, a cathode, and an antireflective layer. In an embodiment of the invention, the up-conversion device includes an IR pass visible blocking layer,

