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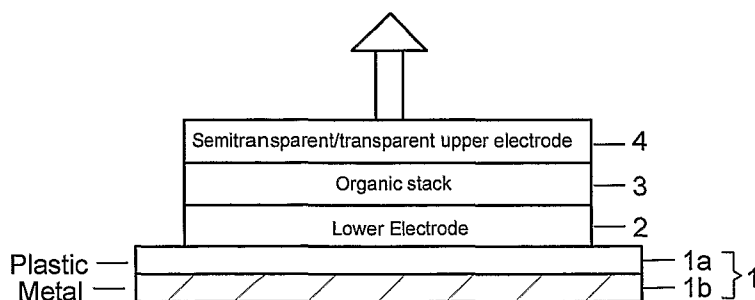
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(54) **Title**: FLEXIBLE ELECTROLUMINESCENT DEVICES



(57) **Abstract**: An organic light emitting diode (OLED) formed on an opaque flexible substrate is disclosed. The opaque flexible substrate is composed of one of the following: (i) a plastic layer laminated to or coated with a metal layer, (ii) a metal layer sandwiched between two plastic layers, or (iii) a metal foil. When the OLED is formed on a metal surface of the flexible substrate, the metal surface may be coated with an isolation layer. The isolation layer may be a spin-coated polymer layer or a dielectric layer. The

metal in the flexible substrate serves as a barrier to minimize the permeation of oxygen and moisture to the OLED. In addition, the OLED is provided with a transparent or semi-transparent upper electrode so that light can emit through the upper electrode.

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