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(54) **POLYMER-BASED ORGANIC ELECTROLUMINESCENT DEVICE**

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USPC 428/690, 917; 313/504, 505, 506, 501; 257/40; 252/301.35
See application file for complete search history.

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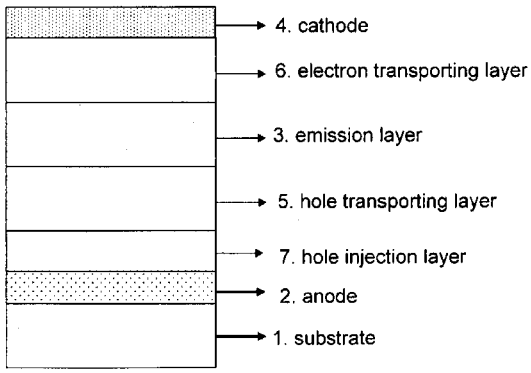
(57) **ABSTRACT**

An electroluminescence device having an emission layer comprising a single organic compound layer between a cathode and an anode. The single layer may comprise an emitter component on a single polymer chain of covalently linked (co)-polymer sections Y1, optionally in combination with Y2, and/or Y3, or different polymer chains Y1, optionally in combination with Y2, and/or Y3 blended together. Each of the (co)-polymer contains a spacer unit and a carrier transporting component and optionally an emitter moiety.

27 Claims, 4 Drawing Sheets