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(54) ELECTROLUMINESCENT MATERIALS

(57) Abstract:

Highly luminous, thermally stable and moisture-resistant light-emitting materials derived from quadridentate ONNO-type ligands and a Group 10 metal were employed as emissive dopants in organic light-emitting devices. The dopants have molecular structures represented by the formula I and II: wherein M represents Group 10 metal (including platinum) and R1-R14 are each independently selected from the group consisting of hydrogen; halogen; alkyl; substituted alkyl; aryl; substituted aryl, with substituents selected from the group consisting of halogen, lower alkyl and recognized donor and acceptor groups.

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