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(54) Title: SOLUTION PROCESSED ORGANOMETALLIC COMPLEXES AND THEIR USE IN ELECTROLUMINESCENT DEVICES

(57) Abstract: The invention provides phosphorescent organometallic complexes. The complexes of the invention may be prepared as films further comprising a charge carrying host material may be used at an emissive layer in organic light emitting devices. In one embodiment, the complex is a hyper-branched organoiridium complex comprising a 2-phenylpyridine ligand wherein the phenyl ring or the pyridine ring contains 4 non-hydrogen substituents. In another embodiment, the complex is an organoiridium complex comprising a substituted 2-phenyl pyridine ligand, wherein at least one substituent contains a spiro group.



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