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(71) Applicant: **MERCK PATENT GMBH** [DE/DE]; Frankfurt
furter Straße 250, 64293 Darmstadt (DE).

(72) Inventors: **WETZEL, Christoph**; 70 Meister Avenue,
Branchburg, New Jersey 08876 (US). **HEIL, Holger**; 70
Meister Avenue, Branchburg, New Jersey 08876 (US).
KROMPIEC, Michal; 70 Meister Avenue, Branchburg,
New Jersey 08876 (US). **LIETZAU, Lars**; 70 Meister
Avenue, Branchburg, New Jersey 08876 (US). **BRUGE,**
David; 70 Meister Avenue, Branchburg, New Jersey 08876
(US). **FANG, Ming**; 70 Meister Avenue, Branchburg, New
Jersey 08876 (US). **IVANOV, Sergei V.**; 70 Meister Av-
enue, Branchburg, New Jersey 08876 (US).

(74) Agent: **RIPPEL, Hans Christoph**; Patentanwälte Isen-
bruck Bösl Hörschler PartG mbB, Seckenheimer Land-
straße 4, 68163 Mannheim (DE).

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(54) Title: LANTHANIDE AND LANTHANIDE-LIKE TRANSITION METAL COMPLEXES

(57) Abstract: The disclosed and claimed subject matter provides precursors having at least one tethered cyclopentadienyl ligand ("Cp ligand"), at least one amidinate ligand ("Ad ligand") and a lanthanide and/or lanthanide-like transition metal ("M") of the general formulae (i) (Cp ligand)₂-M-(Ad ligand) or (ii) (Cp ligand)-M-(Ad ligand)₂.

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