

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2024/0251658 A1 ROTHE et al.

Jul. 25, 2024 (43) **Pub. Date:**

(54) METAL-ORGANIC COORDINATION COMPOUND AND METHOD FOR PRODUCING THE SAME

- (71) Applicant: **BeeOLED GmbH**, Dresden (DE)
- Inventors: Carsten ROTHE, Dresden (DE);

Volodymyr SENKOVSKYY, Dresden

Assignee: **BeeOLED GmbH**, Dresden (DE)

18/287,129 Appl. No.:

PCT Filed: Dec. 1, 2021

PCT No.: PCT/EP2021/083808 (86)

§ 371 (c)(1),

(30)

(2) Date: Oct. 16, 2023

Foreign Application Priority Data

(WO) PCT/EP2021/059962

Publication Classification

(51) **Int. Cl.** (2006.01)H10K 85/30 A61B 5/055 (2006.01)A61K 49/10 (2006.01)

CPC H10K 85/351 (2023.02); A61K 49/101 (2013.01); C07F 5/003 (2013.01); C09K 11/02 (2013.01); C09K 11/06 (2013.01); H10K 71/16 (2023.02); H10K 71/191 (2023.02); H10K 85/10 (2023.02); A61B 5/055 (2013.01); C09K 2211/1007 (2013.01); C09K 2211/1044 (2013.01); C09K 2211/1074 (2013.01); C09K 2211/1096 (2013.01); C09K 2211/182 (2013.01); G01R 33/5601 (2013.01); H10K 50/11 (2023.02)

(57)ABSTRACT

A metal-organic coordination compound, which is neutrally charged and wherein the coordination compound comprises at least one divalent lanthanide coordinated by a cyclic organic ligand, wherein the cyclic organic ligand contains two monoanionic groups covalently linked with the cyclic organic ligand and being separated from each other by a sequence of at least two intervening atoms.