

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
07 March 2024 (07.03.2024)



(10) International Publication Number
WO 2024/050359 A1

(51) International Patent Classification:
C08F 210/16 (2006.01)

(21) International Application Number:
PCT/US2023/073084

(22) International Filing Date:
29 August 2023 (29.08.2023)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/401,915 29 August 2022 (29.08.2022) US

(71) Applicant: **DOW GLOBAL TECHNOLOGIES LLC**
[US/US]; 2211 H.H. Dow Way, Midland, Michigan 48674
(US).

(72) Inventors; and

(71) Applicants: **BAILLIE, Rhett A.** [US/US]; c/o The Dow Chemical Company, 230 Abner Jackson Parkway, Lake Jackson, Texas 77566 (US). **DELORBE, Johnathan E.** [US/US]; c/o The Dow Chemical Company, 230 Abner Jackson Parkway, Lake Jackson, Texas 77566 (US). **SZUROMI, Endre** [US/US]; c/o The Dow Chemical Company, 230 Abner Jackson Parkway, Lake Jackson, Texas 77566 (US). **FONTAINE, Philip P.** [US/US]; c/o The Dow Chemical Company, 230 Abner Jackson Parkway, Lake Jackson, Texas 77566 (US). **GRIGG, Robert D.** [US/US]; c/o The Dow Chemical Company, 2211 H.H. Dow Way, Midland, Michigan 48674 (US). **PAL, Sudipta** [US/US]; c/o The Dow Chemical Company, 2211 H.H. Dow Way, Midland, Michigan 48674 (US). **KLOSIN, Jerzy** [US/US]; c/o The Dow Chemical Company, 2211 H.H. Dow Way, Midland, Michigan 48674 (US). **BAILEY, Brad C.** [US/US]; c/o The Dow Chemical Company, 2211 H.H. Dow Way, Midland, Michigan 48674 (US).

(74) Agent: **LUNN, Jennifer H.** et al.; c/o Dinsmore & Shohl LLP, One South Main Street, Fifth Third Center, Suite 1300, Dayton, Ohio 45402 (US).

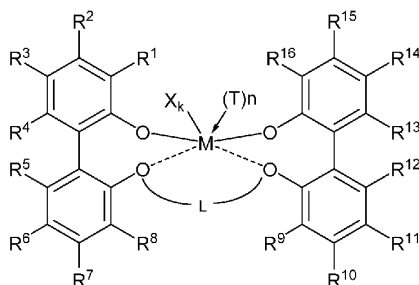
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: GROUP III-HALIDE OR LANTHANIDE-HALIDE BIS(PHENYLPHENOXY) METAL-LIGAND COMPLEXES



(I)

(57) Abstract: Embodiments of this disclosure are directed to catalyst systems comprising a metal-ligand complex according to formula (I).

WO 2024/050359 A1