

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
05 November 2020 (05.11.2020)



(10) International Publication Number
WO 2020/223144 A1

(51) International Patent Classification:

C08F 210/16 (2006.01) B01J 31/22 (2006.01)

C07F 17/02 (2006.01)

(21) International Application Number:

PCT/US2020/030040

(22) International Filing Date:

27 April 2020 (27.04.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/840,865 30 April 2019 (30.04.2019) US

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(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, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, 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, GH, GM, KE, LR, LS, MW, MZ, NA, RW, 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, 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: METHOD OF MAKING METAL-LIGAND COMPLEXES

(57) Abstract: Embodiments of the present disclosure are directed towards method of making a metal-ligand complex, the method including: reacting a (L¹)_nH compound and a base in a primary solvent to make a reaction mixture comprising an intermediate anionic L¹ compound in the primary solvent; and reacting the intermediate anionic L¹ compound and a L²MX₃ complex to make a L¹L²MX₂ complex, wherein L¹ and L² independently are cyclopentadienyl-type (Cp-type) ligands, M is zirconium or hafnium, and each X is a halide and wherein the intermediate anionic L¹ compound is not isolated from the reaction mixture.



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