

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
16 March 2023 (16.03.2023)



(10) International Publication Number
WO 2023/036350 A1

(51) International Patent Classification:

C07D 401/14 (2006.01) C07K 7/06 (2006.01)
A61K 49/08 (2006.01) C07F 3/04 (2006.01)
A61K 49/12 (2006.01) C07F 3/06 (2006.01)
C07D 471/22 (2006.01) C07F 3/08 (2006.01)
C07F 9/6524 (2006.01) C07F 7/24 (2006.01)

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))
- with sequence listing part of description (Rule 5.2(a))
- in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE

(21) International Application Number:

PCT/CZ2022/050087

(22) International Filing Date:

09 September 2022 (09.09.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

21196175.0 10 September 2021 (10.09.2021) EP

(71) Applicant: USTAV ORGANICKE CHEMIE A BIOCHEMIE AV CR V.V.I. [CZ/CZ]; Flemingovo nam. 2, 16610 Praha 6 (CZ).

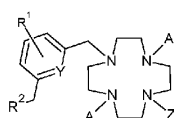
(72) Inventors: POLASEK, Miloslav; Terronska 871/74, 16000 Praha 6 (CZ). DAVID, Tomas; Mezi Zahradami 471, 250 64 Hovorcovice (CZ). STRAKA, Michal; Vorlova 935/44, 26601 Beroun (CZ). JAROS, Adam; Dacickeho 1150/3, 14000 Praha 4 (CZ).

(74) Agent: HARBER IP S.R.O.; Dukelskych hrdinu 567/52, 17000 Praha 7 (CZ).

(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, 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,

(54) Title: COMPOUNDS FOR COMPLEXATION OF RARE EARTH ELEMENTS AND/OR S-, P-, D-BLOCK METALS, THEIR COORDINATION COMPOUNDS, PEPTIDE CONJUGATES, METHOD OF THEIR PREPARATION AND USE THEREOF



(I)

(57) Abstract: The present invention relates to compounds of general formula (I) for use as complexing agents. The invention further relates to the coordination compounds thereof, peptide conjugates, method of their preparation and use thereof.

WO 2023/036350 A1