

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
15 May 2025 (15.05.2025)



(10) International Publication Number
WO 2025/101615 A1

(51) International Patent Classification:
C07D 487/04 (2006.01)

(21) International Application Number:
PCT/US2024/054736

(22) International Filing Date:
06 November 2024 (06.11.2024)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/596,736 07 November 2023 (07.11.2023) US

(71) Applicant: **CARDURION PHARMACEUTICALS, INC.** [US/US]; 78 Blanchard Road, Suite 200, Burlington, Massachusetts 01803 (US).

(72) Inventors: **AMEDIO, John**; c/o Cardurion Pharmaceuticals, Inc., 78 Blanchard Road, Suite 200, Burlington, Massachusetts 01803 (US). **OKAWA, Tomohiro**; c/o Cardurion Pharmaceuticals K.K., 26-1, Muraoka-Higashi 2-chome, Fujisawa, Kanagawa 251-8555 (JP). **SHIRAI, Junya**; c/o Cardurion Pharmaceuticals K.K., 26-1, Muraoka-Higashi 2-chome, Fujisawa, Kanagawa 251-8555 (JP). **VOLCKO-**

VA, Erika; c/o Cardurion Pharmaceuticals, Inc., 78 Blanchard Road, Suite 200, Burlington, Massachusetts 01803 (US).

(74) Agent: **PINO, Mark** et al.; Mintz Levin Cohn Ferris Glovsky & Popeo, P.C., One Financial Center, Boston, Massachusetts 02111 (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,

(54) Title: POLYMORPHS OF A PYRIDINYLMIDAZO[1,2-B]PYRIDAZINE

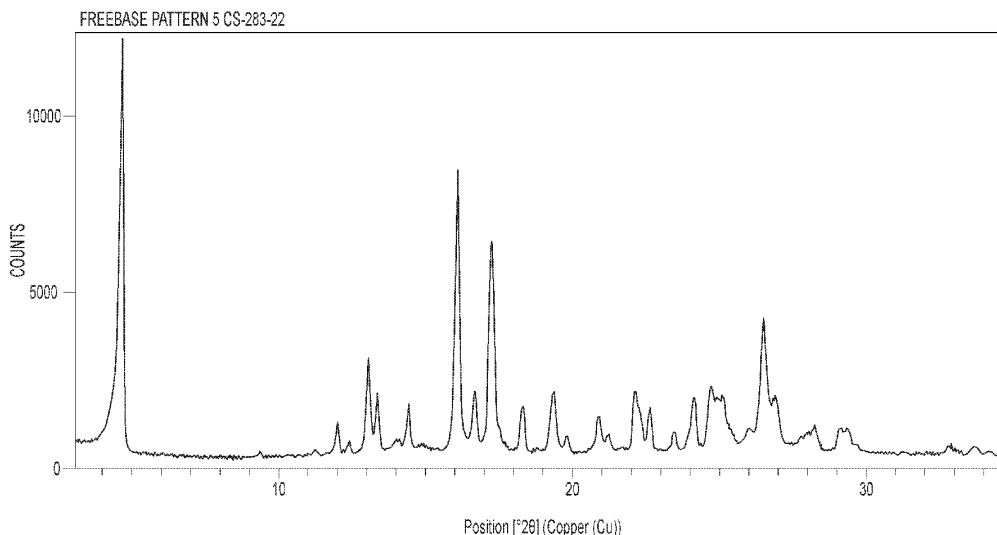


FIG. 1

(57) Abstract: The present application relates to salts, co-crystals, and polymorphs of (S)-2-(6-(3-((1-(1H-tetrazol-1-yl)propan-2-yl)oxy)-4-fluorophenyl)imidazo[1,2-b]pyridazin-3-yl)-4-methoxynicotinonitrile (Formula I), and compositions and uses thereof.

[Continued on next page]

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))