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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
20 October 2022 (20.10.2022)

WIPO | PCT

(10) International Publication Number
WO 2022/221704 A1

(51) International Patent Classification:
C07D 471/04 (2006.01) *A61P 35/00* (2006.01)
A61K 31/437 (2006.01)

(21) International Application Number:
PCT/US2022/025083

(22) International Filing Date:
15 April 2022 (15.04.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/175,974 16 April 2021 (16.04.2021) US
63/281,493 19 November 2021 (19.11.2021) US

(71) Applicant: **HOTSPOT THERAPEUTICS, INC.** [US/US]; 50 Milk Street, 16th Floor, Boston, Massachusetts 02109 (US).

(72) Inventors: **BI, Yingzhi**; 5 Mershon Lane, Plainsboro, New Jersey 08536 (US). **CARSON, Ken**; 96 Herrontown Road, Princeton, New Jersey 08540 (US). **HARRIMAN, Geraldine Cirillo**; 50 South Arnolda Road, Charlestown, Rhode Island 02813 (US). **HONE, Graham A.b.**; 85 Marshall Corner Woodsville Road, Hopewell, New Jersey 08525 (US). **GOVINDARAJ, Rajiv Gandhi**; 163 Rumford Ave, #203, Mansfield, Massachusetts 02048 (US). **DENNY, Rajiah Aldrin**; 40 Harold Street, Sharon, Massachusetts 02067 (US). **DILLER, David J.**; 176 Hickory Corner Road, East Windsor, New Jersey 08520 (US).

(74) Agent: **HALEY, Christopher K.**; Goodwin Procter LLP, 100 Northern Avenue, IP DOcketing Dept./7Th FL, Boston, Massachusetts 02210 (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, 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, 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.

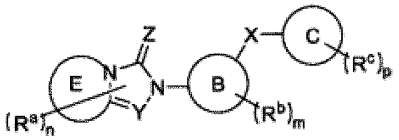
(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, 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).

Declarations under Rule 4.17:
— *of inventorship (Rule 4.17(iv))*

Published:
— *with international search report (Art. 21(3))*

(54) Title: COMPOUNDS, COMPOSITIONS AND METHODS OF TREATING CANCER

(57) Abstract: The present disclose includes, among other things, compounds that treat or lessen the severity of cancer, pharmaceutical compositions and methods of making and using the same.



(A)

WO 2022/221704 A1