

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
25 November 2021 (25.11.2021)



(10) International Publication Number
WO 2021/236650 A1

(51) International Patent Classification:

C07D 487/14 (2006.01) C07D 487/00 (2006.01)
C07D 487/12 (2006.01) A61P 35/04 (2006.01)

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(21) International Application Number:

PCT/US2021/032976

(22) International Filing Date:

18 May 2021 (18.05.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/027,113 19 May 2020 (19.05.2020) US
63/085,672 30 September 2020 (30.09.2020) US

(71) Applicant: **G1 THERAPEUTICS, INC.** [US/US]; 700
Park Offices Drive, Suite 200, Research Triangle Park, NC
27709 (US).

(72) Inventor: **STRUM, Jay Copeland**; 616 Deerhaven Court,
Hillsborough, NC 27278 (US).

(74) Agent: **BELLOWS, Brent R.** et al.; Knowles Intellectual
Property Strategies, LLC, 400 Perimeter Center Terrace,
Suite 200, Atlanta, GA 30346 (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, 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:

- as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the
earlier application (Rule 4.17(iii))

(54) Title: CYCLIN-DEPENDENT KINASE INHIBITING COMPOUNDS FOR THE TREATMENT OF MEDICAL DISORDERS

(57) Abstract: This invention is in the area of cell cycle inhibiting compounds for the treatment of disorders involving abnormal cellular proliferation, and include selective CDK2 inhibitors for medical therapy and their pharmaceutically acceptable salts and compositions.



WO 2021/236650 A1