

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 September 2002 (06.09.2002)

PCT

(10) International Publication Number
WO 2002/068414 A8

(51) International Patent Classification:

A61K 31/454 (2006.01) *C07D 401/04* (2006.01)
A61K 31/513 (2006.01) *C07D 403/04* (2006.01)
C07D 209/48 (2006.01)

(21) International Application Number:

PCT/US2002/005868

(22) International Filing Date:

26 February 2002 (26.02.2002)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/271,941 27 February 2001 (27.02.2001) US

(71) Applicant (*for all designated States except US*): **THE GOVERNMENT OF THE UNITED STATES OF AMERICA**, as represented by **THE SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES** [US/US]; National Institutes of Health, Office of Technology Transfer, 6011 Executive Boulevard, Suite 325, Rockville, Maryland 20852-3804 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **FIGG, William, D.** [US/US]; 10451 Breckinridge Lane, Fairfax, VA 22030 (US). **EGER, Kurt** [DE/DE]; Alte Landstrasse 15/4, 72072 Tuebingen (DE). **TEUBERT, Uwe** [DE/DE]; Berliner Strasse 3a, 31789 Hameln (DE). **WEISS, Michael** [DE/DE]; Dorfstrasse 21, 06571 Wiehe-Garnbach (DE). **GUETSCHOW, Michael** [DE/DE]; Pharmazeutisches Institut, Poppelsdorf, Universitaet Bonn, Kreuzbergweg 26, 53115 Bonn (DE). **HECKER, Thomas** [DE/DE]; Richard-Breslau Strasse 6, 99094 Er-

furt (DE). **HAUSCHILDT, Sunna** [DE/DE]; Pistorisstrasse 19, 04229 Leipzig (DE).

(74) Agent: **NOONAN, William, D.**; Klarquist, Sparkman, LLP, One World Trade Center, Suite 1600, 121 S.W. Salmon Street, Portland, OR 97204 (US).

(81) Designated States (*national*): AE, AG (patent), AL, AM, AT, AU (patent), AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM (patent), DZ (patent), EC, EE, ES, FI, GB, GD (patent), GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC (patent), LK, LR, LS, LT, LU, LV (patent), MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM (patent), PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ (patent), UA, UG, US, UZ, VN, YU, ZA (patent), ZM, ZW.

(84) Designated States (*regional*): ARIPO (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

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

(88) Date of publication of the international search report:
17 October 2002

(48) Date of publication of this corrected version:
25 February 2010

(15) Information about Correction:
see Notice of 25 February 2010

(54) Title: ANALOGS OF THALIDOMIDE AS POTENTIAL ANGIOGENESIS INHIBITORS

(57) Abstract: A number of thalidomide metabolites having superior anti-angiogenic properties have now been isolated and identified. In addition, thalidomide analogs that mimic the effects of the isolated and identified active thalidomide metabolites, and variations of such thalidomide analogs, have been developed. Such thalidomide analog compounds show enhanced potency in the inhibition of undesirable angiogenesis without the undesirable effects of administration of thalidomide.



WO 2002/068414 A8