

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
22 May 2009 (22.05.2009)

PCT

(10) International Publication Number
WO 2009/063070 A3

(51) International Patent Classification:

C07D 215/54 (2006.01) A61P 35/00 (2006.01)
A61K 31/4706 (2006.01)

(21) International Application Number:

PCT/EP2008/065596

(22) International Filing Date:

14 November 2008 (14.11.2008)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/988,147 15 November 2007 (15.11.2007) US
07120799.7 15 November 2007 (15.11.2007) EP

(71) Applicant (for all designated States except US): **Clan-
oTech AB** [SE/SE]; Nobels väg 3, S-171 77 Stockholm
(SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **WESTMAN, Jacob**
[SE/SE]; Blomsberg, S-740 21 Järlåsa (SE). **NEKHO-
TIAEVA, Natalia** [RU/SE]; Hagalundsgatan 32, 4tr,
S-169 64 Solna (SE). **WANNBERG, Johan** [SE/SE];
Salagatan 42 A, S-753 26 Uppsala (SE). **BÄCKMAN,
Ulrika** [SE/SE]; Kwickstensvägen 14, S-752 44 Uppsala
(SE). **MALM, Johan** [SE/SE]; Bridgevägen 9B, S-142 66
Trångsund (SE).

(74) Agent: **BRANN AB**; P.O. Box 17192, S-104 62 Stockholm
(SE).

(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, BR, BW, BY, BZ, CA,
CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE,
EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID,
IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK,
LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW,
MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT,
RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL,
NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG,
CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

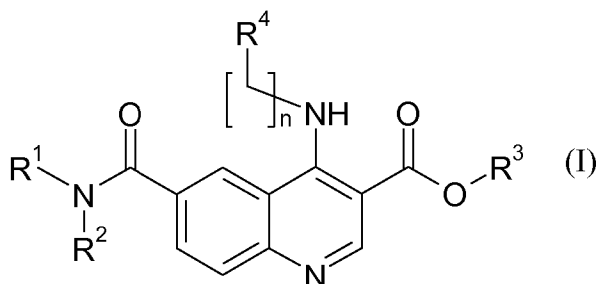
— of inventorship (Rule 4.17(iv))

Published:

— with international search report
— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the international search report:
23 July 2009

(54) Title: QUINOLINE DERIVATIVES AND THEIR USE AS TYROSINE KINASE INHIBITORS



(57) Abstract: A compound of formula (I) as well
as pharmaceutically acceptable salts thereof. A
pharmaceutical composition comprising a therapeutically
effective amount of the compound. The compound is
useful for the treatment of cancer, diabetic retinopathy,
age-related macular degeneration, inflammation, stroke,
ischemic myocardium, atherosclerosis, macular edema
or psoriasis.

WO 2009/063070 A3