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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number
WO 2005/040158 A1

(51) International Patent Classification[7]: C07D 413/14, 417/14, A61K 31/426, 31/4192, 31/422, 31/4155, A61P 35/00

(21) International Application Number:
PCT/EP2004/011943

(22) International Filing Date: 22 October 2004 (22.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

03024399.2	24 October 2003 (24.10.2003)	EP
03024694.6	28 October 2003 (28.10.2003)	EP
03025948.5	13 November 2003 (13.11.2003)	EP

(71) Applicant *(for all designated States except US)*: **F. HOFFMANN - LA ROCHE AG** [CH/CH]; 124 Grenzacherstrasse, CH-4070 Basel (CH).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **BOSSENMAIER, Birgit** [DE/DE]; Horst-Wolfram-Geissler-Weg 10, 82229 Seefeld (DE). **FRIEBE, Walter-Gunar** [DE/DE]; Sophienstrasse 8, 68165 Mannheim (DE). **REIFF, Ulrike** [DE/DE]; Weidenweg 6, 82377 Penzberg (DE). **RUETH, Matthias** [DE/DE]; Falkenstrasse 78, 82377 Penzberg (DE). **VOSS, Edgar** [DE/DE]; Siedlungsstrasse 7, 83673 Bichl (DE).

(74) Agent: **SCHREINER, Siegfried**; Roche Diagnostics GmbH, Patent Department (TR-E), Postfach 11 52, 82372 Penzberg (DE).

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

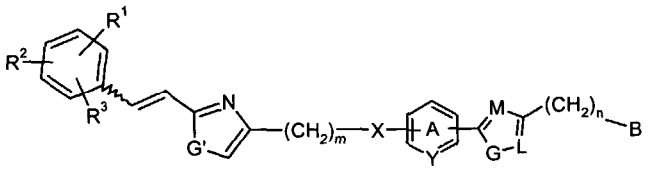
(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/040158 A1

(54) Title: 1-′(E)-2-(PHENYL) ETHENYL-4-(ARYLALKOXY)-OXAZOLE OR - THIAZOLE COMPOUNDS AS HER-2 TYROSINE KINASES INHIBITORS AND THEIR USE IN THE TREATMENT OF CANCER



(I)

(57) Abstract: Objects of the present invention are the compounds of formula (I), their pharmaceutically acceptable salts, enantiomeric forms thereof, diastereoisomers and racemates, the preparation of the above-mentioned compounds, medicaments containing them and their manufacture, as well as the use of the above-mentioned compounds in the control or prevention of illnesses such as cancer.