

(12) **INTERNATIONAL APPLICATION PUBLISHED ACCORDING TO THE
INTERNATIONAL PATENT COOPERATION TREATY (PCT)**

(19) **World Intellectual Property Organization**

International Office



162162

(43) **International Publication Date**

May 18, 2006 (5/18/2006)

PCT

(10) **International Publication Number**
WO 2006/050998 A1



G00002

(51) **International Patent Classification:**

C07D 405/12 (2006.01) *C07C 69/68* (2006.01)

C07D 307/79 (2006.01) *A61K 31/47* (2006.01)

C07D 307/83 (2006.01) *A61P 29/00* (2006.01)

(21) **International File Number:** PCT/EP2005/012531

(22) **International Application Date:** November 11, 2005 (11/11/2005)

(25) **Filing Language:** German

(26) **Publication Language:** German

(30) **Priority Data:**

10 2004 055 633.4 November 12, 2004 (11/12/2004) DE

10 2005 020 331.0 April 26, 2005 (4/26/2005) DE

(71) **Applicant** (for all designated countries except for the U.S.):

SCHERING AKTIENGESELLSCHAFT [DE/DE]; Müllerstrasse 178, 13353
Berlin (DE).

(72) **Inventors; and**

(75) **Inventors/applicants** (only for the U.S.): **JAROCH, Stefan** [DE/DE];

Niebuhrstr. 66, 10629 BERLIN Berlin (DE). **REHWINKEL, Hartmut**

[DE/DE]; Blücherstr. 13, 10961 Berlin (DE). **SCHÄCKE, Heike** [DE/DE];

Gartnestr. 105, 10115 Berlin (DE). **SCHMEES, Norbert** [DE/DE]; Bondickstr. 61, 13469 Berlin (DE). **SKUBALLA, Werner** [DE/DE]; Mattersburger Weg 12, 13465 Berlin (DE). **SCHNEIDER, Matthias** [DE/DE]; Osnabrücker Str. 30, 10589 Berlin (DE). **HÜBNER, Jan** [DE/DE]; Kaskelstrasse 39, 10317 Berlin (DE). **PETROV, Orlin** [DE/DE]; Friedrichshaller Str. 7 b, 14199 Berlin (DE).

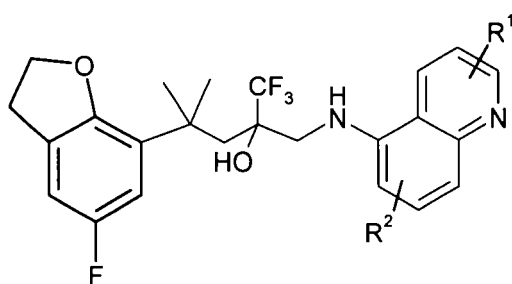
- (74) **Attorneys: JUNGBLUT, Bernhard**, etc.; Albrecht, Lüke & Jungblut, Gelfertstrasse 56, 14195 Berlin (DE).
- (81) **Designated countries** (*if not otherwise indicated, for any available kind of national industrial property right*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) **Designated countries** (*if not otherwise indicated, for any available kind of regional industrial property right*): 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, IS, IT, LT, LU, LV, 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:

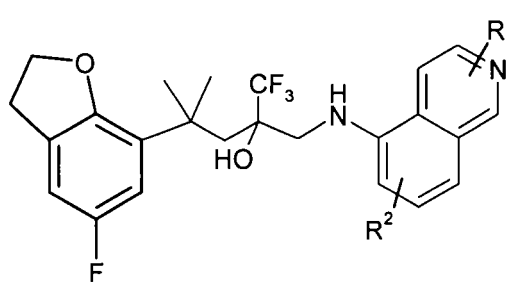
-- *With international search report*

To clarify the two-letter code, and the other abbreviations, reference is made to the explanations ("Guidance Notes on Codes and Abbreviations") at the beginning of each regular edition of the PCT Gazette.

(54) Title: 5-SUBSTITUTED QUINOLINE AND ISOQUINOLINE DERIVATIVES,
A PROCESS FOR THEIR PRODUCTION AND THEIR USE AS ANTI-
INFLAMMATORY AGENTS



(IIa)



(IIb)

(57) Abstract: Compounds of general formula (IIa) or (IIb) and their use as pharmaceutical agents.