



(51) International Patent Classification:

C07D 401/12 (2006.01) *A61P 9/00* (2006.01)
A61K 31/506 (2006.01) *A61P 35/00* (2006.01)

(21) International Application Number:

PCT/EP2013/073683

(22) International Filing Date:

13 November 2013 (13.11.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

12192855.0 15 November 2012 (15.11.2012) EP

(71) Applicant: **BAYER PHARMA AKTIENGESELLSCHAFT** [DE/DE]; Müllerstr. 178, 13353 Berlin (DE).

(72) Inventors: **LÜCKING, Ulrich**; Paula-Fürst-Str. 2, 10317 Berlin (DE). **BÖHNKE, Niels**; Angerstr. 20, 40593 Düsseldorf (DE). **SCHOLZ, Arne**; Schönhauser Allee 170, 10435 Berlin (DE). **LIENAU, Philip**; Jahnstr. 13, 10967 Berlin (DE). **SIEMEISTER, Gerhard**; Reimerswalder Steig 26, 13503 Berlin (DE). **BÖMER, Ulf**; Leipziger Str. 49, 16548 Glienicke (DE). **KOSEMUND, Dirk**; Klutstr. 14, 12587 Berlin (DE). **BOHLMANN, Rolf**; Kühler Weg 6a, 14055 Berlin (DE).

(74) Agent: **BIP PATENTS**; c/o Bayer Intellectual Property GmbH, Creative Campus Monheim, Alfred-Nobel-Str. 10, 40789 Monheim (DE).

(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, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, RW, SD, SL, 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))

Published:

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

(54) Title: N-(PYRIDIN-2-YL)PYRIMIDIN-4-AMINE DERIVATIVES CONTAINING A SULFOXIMINE GROUP

(57) Abstract: The present invention relates to disubstituted N-(pyridin-2-yl)pyrimidin-4-amine derivatives containing a sulfoximine group of general formula (I) as described and defined herein, and methods for their preparation, their use for the treatment and/or prophylaxis of disorders, in particular of hyper-proliferative disorders and/or virally induced infectious diseases and/or of cardiovascular diseases. The invention further relates to intermediate compounds useful in the preparation of said compounds of general formula (I).

