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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
3 October 2013 (03.10.2013)

WIPO | PCT

(10) International Publication Number
WO 2013/143663 A1

(51) International Patent Classification:
C07D 487/04 (2006.01) *A61P 7/00* (2006.01)
A61K 31/4985 (2006.01)

(21) International Application Number:
PCT/EP2013/000827

(22) International Filing Date:
19 March 2013 (19.03.2013)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12002215.7 28 March 2012 (28.03.2012) EP

(71) Applicant: **MERCK PATENT GMBH** [DE/DE]; Frankfurter Strasse 250, 64293 Darmstadt (DE).

(72) Inventors: **DORSCH, Dieter**; Koenigsberger Strasse 17 A, 64372 Ober-Ramstadt (DE). **BUCHSTALLER, Hans-Peter**; Neckarstrasse 6, 64347 Griesheim (DE). **MOINET, Gérard**; 15, rue Lamartine, F-91400 Orsay (FR). **WEGENER, Ansgar**; Koenigsbergerstrasse 12, 63150 Heusenstamm (DE).

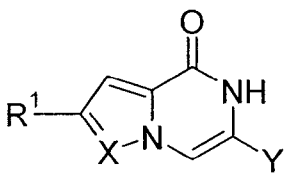
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, 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, ML, MR, NE, SN, TD, TG).

Published:

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

(54) Title: BICYCLIC PYRAZINONE DERIVATIVES



I

(57) Abstract: Compounds of the formula (I) in which R^1, X and Y have the meanings indicated in Claim 1, are inhibitors of Tankyrase, and can be employed, inter alia, for the treatment of diseases such as cancer, cardiovascular diseases, central nervous system injury and different forms of inflammation.

WO 2013/143663 A1