

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
29 May 2008 (29.05.2008)

PCT

(10) International Publication Number
WO 2008/061622 A1

(51) International Patent Classification:
A61K 31/165 (2006.01) *A61P 9/12* (2006.01)
C07C 237/20 (2006.01)

(21) International Application Number:
PCT/EP2007/009573

(22) International Filing Date:
5 November 2007 (05.11.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
06123642.8 7 November 2006 (07.11.2006) EP

(71) Applicant (*for all designated States except US*): **NOVARTIS AG** [CH/CH]; Lichtstrasse 35, CH-4056 Basel (CH).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **STOWASSER, Frank** [DE/DE]; Wieladinger Strasse 3, 79730 Murg (DE). **MONNIER, Stéphanie** [FR/FR]; 6 Le Parc, F-68190 Raedersheim (FR).

(74) Agent: **VON SPRECHER, Georg**; Novartis AG, Corporate Intellectual Property, CH-4002 Basel (CH).

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, 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, 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, HU, IE, IS, IT, LT, LU, LV, MC, MT, 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).

Declaration 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*

(54) Title: CRYSTALLINE FORMS OF ALISKIREN HEMIFUMARATE

(57) Abstract: This invention relates to crystal forms of aliskiren hemifumarate and various embodiments related thereto, e.g. pharmaceutical preparations, processes for the manufacture of the crystal forms, pharmaceutical uses and the like. The crystal forms have particularly advantageous properties e.g. useful in the manufacture of blood-pressure lowering pharmaceutical preparations and the like.



WO 2008/061622 A1