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

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
31 May 2007 (31.05.2007)

PCT

(10) International Publication Number
WO 2007/059931 A1

(51) International Patent Classification:
A61K 47/48 (2006.01)

(21) International Application Number:
PCT/EP2006/011182

(22) International Filing Date:
22 November 2006 (22.11.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
05025431.7 22 November 2005 (22.11.2005) EP

(71) Applicant *(for all designated States except US)*: **HELMHOLTZ-ZENTRUM FÜR INFEKTIONS-FORSCHUNG GMBH** [DE/DE]; Inhoffenstrasse 7, 38124 Braunschweig (DE).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **EBENSEN, Thomas** [DE/DE]; Leharweg 7, 30453 Hannover (DE). **MORR, Michael** [DE/DE]; Elmblick 53, 38302 Wolfenbüttel (DE). **GUZMAN, Carlos, A.** [IT/DE]; Mancinusweg 43, 38304 Wolfenbüttel (DE).

(74) Agent: **KRÖNCKE, Rolf**; Gramm, Lins & Partner GbR, Freundallee 13a, 30173 Hannover (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, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, 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, 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).

Declarations under Rule 4.17:
— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
— *of inventorship (Rule 4.17(iv))*

Published:
— *with international search report*

(48) Date of publication of this corrected version:
19 July 2007

(15) Information about Correction:
see PCT Gazette No. 29/2007 of 19 July 2007

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.

(54) Title: NEW ADJUVANTS ON THE BASIS OF BISACYLOXYPROPYLCYSTEINE CONJUGATES AND DERIVATIVES AND THEIR USES IN PHARMACEUTICAL COMPOSITIONS

(57) Abstract: The present invention relates to new adjuvants and the uses in pharmaceutical compositions, like in vaccines. In particular, the present invention provides new conjugates of the bisacyloxycysteine type useful as adjuvants and/or immunomodulators for prophylactic and/or therapeutic vaccination in the treatment of infectious diseases, inflammatory diseases, autoimmune diseases, tumours, allergies as well as for the control of fertility in human or animal populations. The compounds are particularly useful not only as systemic, but preferably as mucosal adjuvants. In addition, the invention relates to its uses as active ingredients in pharmaceutical compositions.

WO 2007/059931 A1