

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
28 June 2007 (28.06.2007)

PCT

(10) International Publication Number
WO 2007/071786 A3

(51) International Patent Classification:

A61K 39/095 (2006.01) A61K 39/116 (2006.01)
A61K 39/09 (2006.01)

(21) International Application Number:

PCT/EP2006/070173

(22) International Filing Date:

22 December 2006 (22.12.2006)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0526412.2 23 December 2005 (23.12.2005) GB
0607088.2 7 April 2006 (07.04.2006) GB

(71) Applicant (for all designated States except US): **GLAXO-SMITHKLINE BIOLOGICALS SA** [BE/BE]; Rue De L'institut 89, B-1330 Rixensart (BE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **POOLMAN, Jan** [NL/BE]; GlaxoSmithKline Biologicals s.a., Rue De L'institut 89, B-1330 Rixensart (BE).

(74) Agents: **LUBIENSKI, Michael John** et al.; Glaxo-SmithKline, Corporate Intellectual Property CN925.1, 980 Great West Road, Brentford Middlesex TW8 9GS (GB).

(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).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:

13 September 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: CONJUGATE VACCINES

(57) Abstract: The invention provides vaccines against *Neisseria meningitidis*, pneumococcus and DTPa/w. In particular, it provides vaccines based on conjugated capsular saccharides from multiple meningococcal and/or pneumococcal serogroups. It further provides vaccine administration schemes for the immunisation of human patients with two or more of these vaccines.



WO 2007/071786 A3