

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 July 2006 (06.07.2006)

PCT

(10) International Publication Number
WO 2006/069677 A3

(51) International Patent Classification:

A61L 31/18 (2006.01) A61L 31/02 (2006.01)

(21) International Application Number:

PCT/EP2005/013732

(22) International Filing Date:

20 December 2005 (20.12.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/640,794 30 December 2004 (30.12.2004) US

(71) Applicant (for all designated States except US): **BLUE MEMBRANES GMBH** [DE/DE]; Industriepark G 359, Rheingaustrasse 190 - 196, 65203 Wiesbaden (DE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **ASGARI, Soh il** [DE/DE]; Sonnbergerstrasse 5, 65193 Wiesbaden (DE).

(74) Agent: **HANSEN, Norbert**; Maiwald Patentanwalts GmbH, Elisenhof-Elisenstrasse 3, 80335 M nchen (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, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, 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

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

7 December 2006

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: COMBINATION COMPRISING AN AGENT PROVIDING A SIGNAL, AN IMPLANT MATERIAL AND A DRUG

(57) Abstract: The present invention relates to a combination for use in implantable medical devices, comprising at least one signal generating agent, which in a physical, chemical and/or biological measurement or verification method leads to detectable signals, at least one material for manufacture of an implantable medical device and/or at least one component of an implantable medical device, and at least one therapeutically active agent, which in an animal or human organism fulfills directly or indirectly a therapeutic function. The invention further relates to implantable medical devices comprising such a combination, and to methods for the determination of the extent of active agent release from implantable medical devices comprising such a combination.



WO 2006/069677 A3