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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
6 September 2013 (06.09.2013)

WIPO | PCT

(10) International Publication Number
WO 2013/130826 A3

(51) International Patent Classification:
C07K 16/06 (2006.01) *A61P 25/00* (2006.01)

(21) International Application Number:
PCT/US2013/028350

(22) International Filing Date:
28 February 2013 (28.02.2013)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/605,117 29 February 2012 (29.02.2012) US

(71) Applicants *(for all designated States except US)*: **BAXTER INTERNATIONAL INC.** [US/US]; One Baxter Parkway, Deerfield, IL 60015 (US). **BAXTER HEALTHCARE S.A.** [CH/CH]; Thurgauerstsasse 130, CH-8152 Glattpark (opfikon) (CH).

(72) Inventors; and

(71) Applicants *(for US only)*: **KUERY, Patrick** [CH/DE]; Sperlingsweg 36, D-40468 Düsseldorf (DE). **TZEKOVA, Nevena** [BG/DE]; Uerdinger Strasse 12, D-40474 Düsseldorf (DE). **HARTUNG, Hans-peter** [DE/DE]; Pfitznerstrasse 7, D-40593 Düsseldorf (DE). **HERMANN, Corinna** [DE/AT]; Anzengrubergasse 5, A-1050 Vienna (AT). **REIPERT, Birgit, Maria** [DE/AT]; Heinegasse 2, A-2232 Deutsch-Wagram (AT). **SCHWARZ, Hans-peter** [AT/AT]; Weimarer Strasse 76, A-1180 Vienna (AT). **EHRLICH, Hartmut** [DE/AT]; Dr. Heinrich-Maier Strasse 20/1, A-1180 Vienna (AT). **BUNK, Sebastian** [DE/AT]; Aegidigasse 10/18, A-1060 Vienna (AT).

(74) Agent: **PARENT, Annette, S.**; Morgan, Lewis & Bockius LLP, One Market, Spear Street Tower, San Francisco, CA 94105 (US).

(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,

[Continued on next page]

(54) Title: IGG STIMULATED REMYELINATION OF PERIPHERAL NERVES

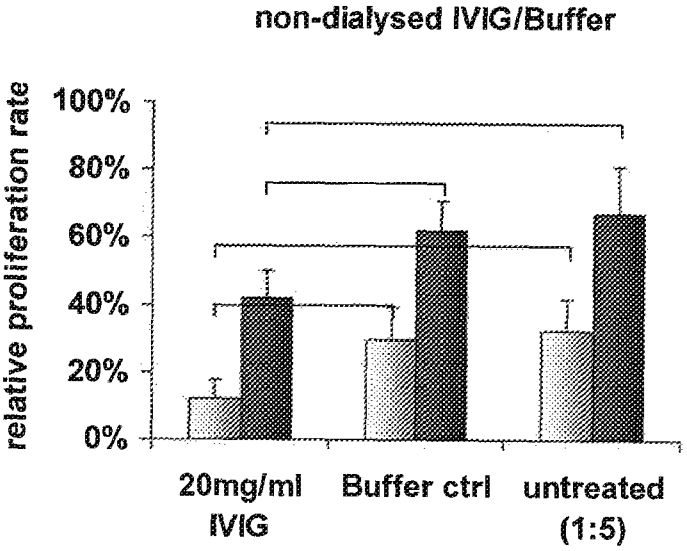


FIG. 1A

(57) Abstract: The present invention is based on the discovery of polyclonal IgG's ability to promote Schwann cell maturation, differentiation, and myelin production. Methods for treating non-idiopathic, demyelinating peripheral neuropathies in mammals, where the neuropathy is not immune-mediated or infection-mediated, through the administration of polyclonal IgG are provided. Types of demyelinating peripheral neuropathies treatable with the present invention include peripheral nerve trauma and toxin-induced peripheral neuropathies. Alternatively, a composition of polyclonal IgGs can be applied directly to a peripheral nerve cell to induce maturation, differentiation into a myelinating state, and myelin expression or promote cell survival.

WO 2013/130826 A3

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))*

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

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

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(88) Date of publication of the international search report:
5 December 2013