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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
7 March 2013 (07.03.2013)

WIPO | PCT

(10) International Publication Number
WO 2013/033042 A1

(51) International Patent Classification:
C07K 16/06 (2006.01)

(21) International Application Number:
PCT/US2012/052567

(22) International Filing Date:
27 August 2012 (27.08.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/527,974 26 August 2011 (26.08.2011) 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]; Thurgauerstrasse 130, CH-8152 Glattpark (opfikon) (CH).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **TESCHNER, Wolfgang** [DE/DE]; Gestettengasse 19/14, A-1030 Vienna (AT). **BUTTERWECK, Harald, Arno** [AT/AT]; Naufahrtweg 5, A-1220 Vienna (AT). **KOELBL, Bernhard** [AT/AT]; Hintausstrasse 20/5, A-2481 Achau (AT). **HOFBAUER, Lucia** [AT/AT]; Grafenberg 9, A-3730 Eggenburg (AT). **SCHWARZ, Hans-Peter** [AT/AT]; Weimarer Strasse 76, A-1180 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, 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: METHOD FOR REDUCING THE THROMBOEMBOLIC POTENTIAL OF A PLASMA-DERIVED IMMUNOGLOBULIN COMPOSITION

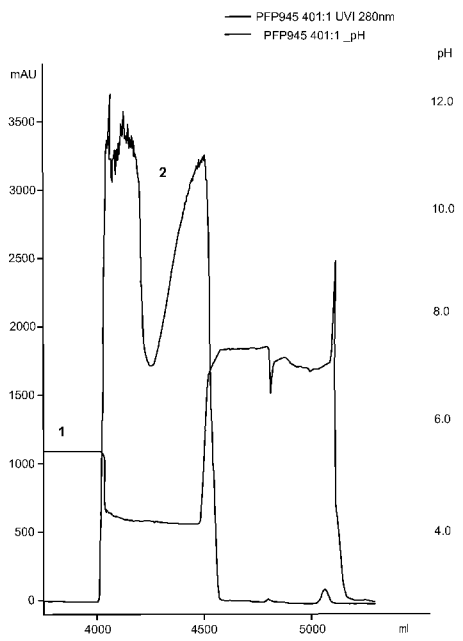


FIG. 2

(57) Abstract: The present invention provides methods for reducing the amidolytic and anti-complement activity (ACA) content of an immunoglobulin composition through the use of cation exchange chromatography. In a specific embodiment, the invention provides methods for reducing the Factor XI and/or Factor XIa and/or ACA content of an immunoglobulin composition by collecting the leading portion of a cation exchange eluate. The present invention also provides immunoglobulin composition having reduced levels of amidolytic activity, Factor XI, and/or Factor XIa, and/or ACA content.

WO 2013/033042 A1

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))*