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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
28 February 2013 (28.02.2013)

WIPO | PCT

(10) International Publication Number
WO 2013/026831 A1

(51) **International Patent Classification**:
C07K 16/30 (2006.01) ***A61P 35/00*** (2006.01)
A61K 39/395 (2006.01)

(21) **International Application Number**:
PCT/EP2012/066213

(22) **International Filing Date**:
21 August 2012 (21.08.2012)

(25) **Filing Language**: English

(26) **Publication Language**: English

(30) **Priority Data**:
11178371.8 23 August 2011 (23.08.2011) EP
12168189.4 16 May 2012 (16.05.2012) EP

(71) **Applicant** *(for all designated States except US)*: **ROCHE GLYCART AG** [CH/CH]; Wagistrasse 18, CH-8952 Schlieren (CH).

(72) **Inventors; and**

(75) **Inventors/Applicants** *(for US only)*: **AUER, Johannes** [DE/DE]; Angerstrasse 7, 82445 Schwaigen (DE). **BRUENKER, Peter** [DE/CH]; Burgwiesenstrasse 3c, CH-8335 Hittnau (CH). **FAUTI, Tanja** [DE/CH]; Ruetihoferstrasse 46, CH-8049 Zuerich (CH). **JAEGER, Christiane** [DE/CH]; Guggenbuehlstrasse 12, CH-8304 Wallisellen (CH). **KLEIN, Christian** [DE/CH]; Chruezacherweg 41, CH-8906 Bonstetten (CH). **SCHAEFER, Wolfgang** [DE/DE]; Tannhaeuserring 190, 68199 Mannheim (DE). **SUSTMANN, Claudio** [DE/DE]; Penzberger Straße 3, 81373 München (DE). **UMANA, Pablo** [CR/CH]; Felsenrainstrasse 28, CH-8832 Wollerau (CH).

(74) **Agent**: **BRODBECK, Michel**; Grenzacherstrasse 124, CH-4070 Basel (CH).

(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, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

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

[Continued on next page]

(54) **Title**: BISPECIFIC ANTIGEN BINDING MOLECULES

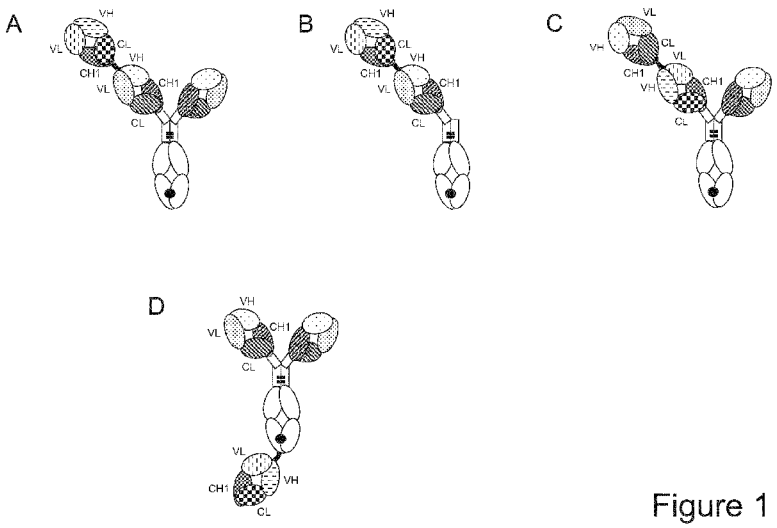


Figure 1

(57) **Abstract**: The present invention generally relates to novel bispecific antigen binding molecules. In addition, the present invention relates to polynucleotides encoding such bispecific antigen binding molecules, and vectors and host cells comprising such polynucleotides. The invention further relates to methods for producing the bispecific antigen binding molecules of the invention, and to methods of using these bispecific antigen binding molecules in the treatment of disease.

WO 2013/026831 A1

— *with sequence listing part of description (Rule 5.2(a))*