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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
9 February 2012 (09.02.2012)

PCT

(10) International Publication Number
WO 2012/018790 A2

(51) International Patent Classification:

A61K 51/10 (2006.01)	*C07H 21/04* (2006.01)	*C12N 1/11* (2006.01)	*A61P 31/04* (2006.01)
A61K 49/00 (2006.01)	*A61P 31/16* (2006.01)	*C12N 15/63* (2006.01)	*A61P 29/00* (2006.01)
A61P 41/00 (2006.01)	*A61P 25/06* (2006.01)	*A61P 37/08* (2006.01)	*A61P 17/02* (2006.01)
A61P 17/06 (2006.01)	*A61P 19/10* (2006.01)	*C07K 16/24* (2006.01)	*A61P 31/18* (2006.01)
A61K 39/395 (2006.01)	*A61P 17/00* (2006.01)	*A61P 1/00* (2006.01)	
C12N 5/10 (2006.01)	*A61P 25/00* (2006.01)		
A61P 3/10 (2006.01)	*A61P 25/18* (2006.01)		
A61P 9/10 (2006.01)	*G01N 33/566* (2006.01)		
A61P 13/12 (2006.01)	*A61P 31/00* (2006.01)		
A61P 33/00 (2006.01)	*A61P 25/28* (2006.01)		
A61P 11/06 (2006.01)	*A61P 9/00* (2006.01)		
C12N 1/21 (2006.01)	*A61P 15/00* (2006.01)		
C12N 1/15 (2006.01)	*A61P 37/02* (2006.01)		
C12N 1/19 (2006.01)	*A61P 35/02* (2006.01)		
A61P 25/16 (2006.01)	*A61P 35/00* (2006.01)		

(21) International Application Number:
PCT/US2011/046233

(22) International Filing Date:
2 August 2011 (02.08.2011)

(25) Filing Language: English

(26) Publication Language: English

[Continued on next page]

(54) Title: DUAL VARIABLE DOMAIN IMMUNOGLOBULINS AND USES THEREOF

(57) Abstract: Engineered multivalent and multispecific binding proteins, methods of making, and their uses in the prevention, diagnosis, and/or treatment of disease are provided.

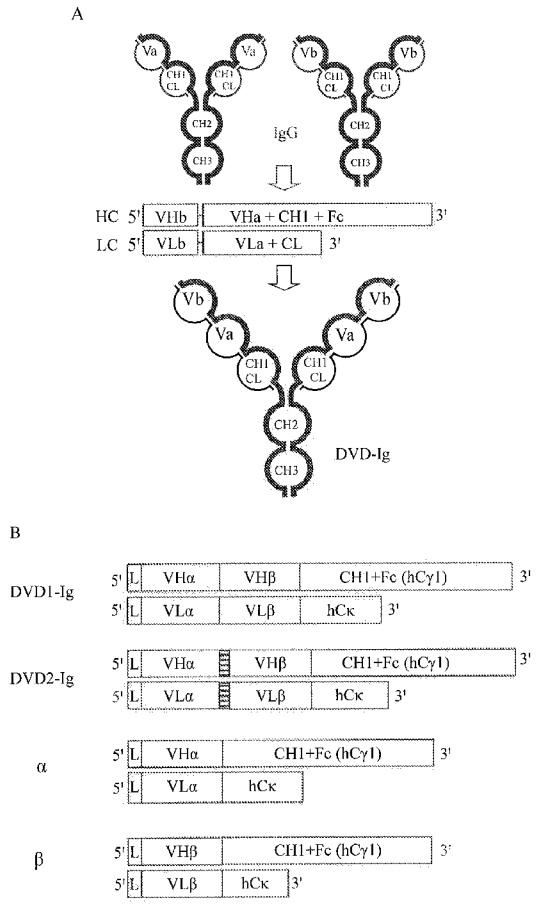


FIG. 1

WO 2012/018790 A2

(30) **Priority Data**:

61/370,269	3 August 2010 (03.08.2010)	US
61/377,134	26 August 2010 (26.08.2010)	US

(71) **Applicant** *(for all designated States except US)*: **ABBOTT LABORATORIES** [US/US]; 100 Abbott Park Road, Abbot Park, IL 60064 (US).

(72) **Inventors; and**

(75) **Inventors/Applicants** *(for US only)*: **GHAYUR, Tariq** [US/US]; 1014 Washington Street, Holliston, MA 01746 (US). **LIU, Junjian** [CN/US]; 14 Crimson Drive, Shewsbury, MA 01545 (US). **ISAKSON, Peter, C.** [US/US]; 14 Hillside Avenue, Southborough, MA 01610 (US).

(74) **Agent**: **MCNEILL, Rebecca, M.**; Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P., 901 New York Avenue, NW, Washington, DC 20001-4413 (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, 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, RO, RS, RU, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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:

— *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*