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Substitute for form 1449A/PTO (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known		
			Application Number	14/155,344	
			Filing Date	January 14, 2014	
			First Named Inventor	Desjarlais et al.	
			Art Unit	1644	
			Examiner Name	Zachary S. SKELDING	
Sheet	1		34	Attorney Docket Number	067461-5161-US02

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	US4364935	02-21-1982	Kung et al.	
	A2	US5541087	07-30-1996	Lo et al.	
	A3	US5585097	12-17-1996	Bolt et al.	
	A4	US5726044	03-10-1998	Lo et al.	
	A5	US5731168	03-24-1998	Carter et al.	
	A6	US5807706	09-15-1998	Carter et al.	
	A7	US5821333	10-13-1998	Carter et al.	
	A8	US5859205	01-12-1999	Adair et al.	
	A9	US5877291	03-02-1999	Mezes et al.	
	A10	US5892020	04-06-1999	Mezes et al.	
	A11	US5945311	08-31-1999	Lindhofer et al.	
	A12	US5968509	10-19-1999	Gorman et al.	
	A13	US6071515	06-06-2000	Mezes et al.	
	A14	US6329507	12-11-2001	Mezes et al.	
	A15	US6632927	10-14-2003	Adair et al.	
	A16	US6706265	03-16-2004	Bolt et al.	
	A17	US6723538	04-20-2004	Mack et al.	
	A18	US7112324	09-26-2006	Dorken et al.	
	A19	US7642228	01-05-2010	Carter et al.	
	A20	US7695936	04-13-2010	Carter et al.	
	A21	US7696338	04-13-2010	Neville, Jr. et al.	
	A22	US7728114	06-01-2010	Mach et al.	
	A23	US8114967	02-14-2012	Bhatt et al.	

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	A24	US8216805	07-10-2012	Carter et al.	
	A25	US8236308	08-07-2012	Kischel et al.	
	A26	US8309690	11-13-2012	Allan et al.	
	A27	US8409568	04-02-2013	Gao et al.	
	A28	US20020103345	08-01-2002	Zhu	
	A29	US20020131968	09-19-2002	Waldmann et al.	
	A30	US20030017979	01-23-2003	Mack et al.	
	A31	US20030223999	12-04-2003	Lindhofer	
	A32	US20040071696	04-15-2004	Adams et al.	
	A33	US20040162411	08-19-2004	Lanzavecchia	
	A34	US20040242851	12-02-2004	Zhu	
	A35	US20050136050	06-23-2005	Kufer et al.	
	A36	US2005-0176028	08-11-2005	Hofmeiser et al.	
	A37	US2005-0191702	09-01-2005	Mack et al.	
	A38	US2006-0018897	01-26-2006	Lee et al.	
	A39	US2006-0073142	04-06-2006	Chan et al.	
	A40	US2006-0115481	06-01-2006	Lindhofer et al.	
	A41	US2007-0071675	03-29-2007	Wu et al.	
	A42	US2007-0105199	05-10-2007	Yan et al.	
	A43	US2007-0123479	05-31-2007	Kufer et al.	
	A44	US2007-0287170	12-13-2007	Davis et al.	
	A45	US2008-0044413	02-21-2008	Hammond et al.	
	A46	US2008-0050370	02-28-2008	Glaser et al.	

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	A47	US2008-0138335	06-12-2008	Takahashi et al.	
	A48	US20080213273	09-04-2008	Burge	
	A49	US20090082213	03-26-2009	Horowitz et al.	
	A50	US20090214539	08-27-2009	Grosmaire et al.	
	A51	US20090252683	10-08-2009	Kischel et al.	
	A52	US20090274692	11-05-2009	Tan et al.	
	A53	US20090311253	12-17-2009	Ghayur et al.	
	A54	US20100150918	06-17-2010	Kufer et al.	
	A55	US20100174053	07-08-2010	Johnson et al.	
	A56	US20100178298	07-15-2010	Lindhofer	
	A57	US20100183554	07-22-2010	Mach et al.	
	A58	US20100226925	09-09-2010	Dillon et al.	
	A59	US20100239582	09-23-2010	Humphreys et al.	
	A60	US20100256339	10-07-2010	Bossenmaier et al.	
	A61	US20100256340	10-07-2010	Brinkmann et al.	
	A62	US20100298542	11-25-2010	Igawa et al.	
	A63	US20100322933	12-23-2010	Lindhofer et al.	
	A64	US20100330089	12-30-2010	Damle et al.	
	A65	US20100331527	12-30-2010	Davis et al.	
	A66	US20110054151	03-03-2011	Lazar et al.	
	A67	US20110177500	07-21-2011	Winther et al.	
	A68	US20110189209	08-04-2011	Neville, Jr. et al.	
	A69	US20110201032	08-18-2011	Zeng et al.	

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	A70	US20110217302	09-08-2011	Odegard et al.	
	A71	US20110262439	10-27-2011	Kufer et al.	
	A72	US20110275787	11-10-2011	Kufer et al.	
	A73	US20110293619	12-01-2011	Kufer et al.	
	A74	US20120034228	02-09-2012	Kufer et al.	
	A75	US20120149876	06-14-2012	Von Kreudenstein et al.	
	A76	US20120251531	10-04-2012	Baehner et al.	
	A77	US20120251541	10-04-2012	Baurin et al.	
	A78	US20130089541	04-11-2013	D'Angelo et al.	
	A79	US20130095097	04-18-2013	Blakenship et al.	
	A80	US20130101586	04-25-2013	ESBATEch - a Novartis Co. LLC	
	A81	US20130129723	05-23-2013	Blakenship et al.	
	A82	US20130142793	06-06-2013	Ledbetter et al.	
	A83	US20130195849	08-01-2013	Von Kreudenstein et al.	
	A84	US20130336981	12-19-2013	de Kruif et al.	
	A85	US20140072581	03-13-2014	Dixit et al.	

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	B1	EP1752471	02-14-2007	F-Star Biotechnologische Forschungs-und Entwicklungsges.M.B.H.		
	B2	EP1829895	05-09-2007	F-Star Biotechnologische Forschungs-und Entwicklungsges.M.B.H.		
	B3	EP2009101	10-11-2007	Chugai Seiyaku Kabushiki Kaisha		
	B4	EP2194066	09-06-2010	Seiyaku et al.		
	B5	EP2522724	06-30-2011	Chugai Seiyaku Kabushiki Kaisha		
	B6	WO1996027011	09-06-1996	Genentech, Inc.		
	B7	WO1999054440	10-28-1999	Dorken et al.		
	B8	WO2001083525	11-08-2001	Amgen Inc.		
	B9	WO2001090192	11-29-2001	Imclone Systems, Inc.		
	B10	WO2002062850	08-15-2002	Millennium Pharmaceuticals, Inc.		
	B11	WO2004106383	12-09-2004	Micromet AG		
	B12	WO2005063816	07-14-2005	Genentech, Inc.		
	B13	WO2005118635	12-15-2005	Novimmune S.A.		
	B14	WO2006020258	02-23-2006	Imclone Systems, Inc.		
	B15	WO2006036834	04-06-2006	Amgen Inc.		
	B16	WO2006072620	07-13-2006	Ruker		
	B17	WO2006106905	12-10-2006	Seiyaku et al.		

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	B18	WO2007005612	01-11-2007	Medimune, Inc.		
	B19	WO2007042261	04-19-2007	Micromet AG		
	B20	WO2007047829	04-26-2007	Applied Research Systems ARS Holding N.V.		
	B21	WO2007062037	05-31-2007	Applied Research Systems ARS Holding N.V.		
	B22	WO2007093630	08-23-2007	Trion Pharma GMBH		
	B23	WO2007098934	09-07-2007	F-Star Biotechnologische Forschungs-und Entwicklungsges.M.B.H.		
	B24	WO2007110205	10-04-2007	Merck Patent GMBH		
	B25	WO2008003103 (ISR)	01-10-2008	F-Star Biotechnologische Forschungs-und Entwicklungsges.M.B.H.		
	B26	WO2008003103	01-10-2008	F-Star Biotechnologische Forschungs-und Entwicklungsges.M.B.H.		
	B27	WO2008003115	01-10-2008	F-Star Biotechnologische Forschungs-und Entwicklungsges.M.B.H.		
	B28	WO2008003116	01-10-2008	F-Star Biotechnologische Forschungs-und Entwicklungsges.M.B.H.		

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	B29	WO2008119096	10-09-2008	F-Star Biotechnologische Forschungs-und Entwicklungsges.M.B.H.		
	B30	WO2008124858	10-23-2008	F-Star Biotechnologische Forschungs-und Entwicklungsges.M.B.H.		
	B31	WO2008145142	12-04-2008	Genmab A/S		
	B32	WO 2008150494	12-11-2008	Xencor, Inc.		
	B33	WO2009000006	12-31-2008	F-Star Biotechnologische Forschungs-und Entwicklungsges.M.B.H.		
	B34	WO2009017823	02-05-2009	Government of U.S. A. as represented by the Secretary, Dept. of Health of Human Services, Nati'l Institutes of Health Services		
	B35	WO2009030734	03-12-2009	Trion Pharma GMBH		
	B36	WO2009032782	03-12-2009	Biogen Idec MA Inc.		
	B37	WO2009089004	07-16-2009	Amgen Inc.		
	B38	WO2009106096	09-03-2009	Fresenius Biotech GMBH		
	B39	WO2009106321	09-03-2009	Fresenius Biotech GMBH		
	B40	WO2010033736	03-25-2010	Xencor, Inc.		
	B41	WO2010034441	04-01-2010	F. Hoffmann-La Roche Ag		
	B42	WO2010042904	04-15-2010	Trubion Pharmaceuticals,		
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			Application Number	14/155,344	
			Filing Date	January 14, 2014	
			First Named Inventor	Desjarlais et al.	
			Art Unit	1644	
			Examiner Name	Zachary S. SKELDING	
Sheet	8		34	Attorney Docket Number	067461-5161-US02

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
				Inc.		
	B43	WO2010085682	07-29-2010	Biogen Idec MA Inc.		
	B44	WO2010115589	10-14-2010	Roche Glycart AG		
	B45	WO2010119119	10-21-2010	Trion Pharma GMBH		
	B46	WO2010151792	12-29-2010	Regeneron Pharmaceuticals, Inc.		
	B47	WO2010151808	12-29-2010	Sea Lane Biotechnologies, LLC		
	B48	WO2011005621	01-13-2001	Amgen Inc.		
	B49	WO2011036183	03-31-2011	Technische Universitat Dresden		
	B50	WO2011063348	05-26-2011	Amgen Inc.		
	B51	WO2011066342	03-06-2011	Amplimmune, Inc.		
	B52	WO2011066501	06-03-2011	Centocor Ortho Biotech Inc.		
	B53	WO2011131746	10-27-2011	Genmab A/S		
	B54	WO2011133886	10-27-2010	Genentech, Inc.		
	B55	WO2011143545	11-17-2011	Rinat Neuroscience Corporation		
	B56	WO2012018687	02-09-2012	Macrogenics, Inc.		
	B57	WO2012032080	03-15-2012	F-Star Biotechnologische Forschungs-und Entwicklungsges.M.B.H.		
	B58	WO2012058768	05-10-2012	Zymeworks Inc.		

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	B59	WO2012107417	08-16-2012	Roche Glycart AG		
	B60	WO2012116453	09-07-2012	Zymeworks Inc.		
	B61	WO2012125495	09-20-2012	Amgen Inc.		
	B62	WO2012125850	09-20-2012	Amgen Inc.		
	B63	WO2012131555	10-04-2012	Glenmark Pharmaceuticals S.A.		
	B64	WO2012146628	11-01-2012	Roche Glycart AG		
	B65	WO2012162067	11-29-2012	Macrogenics, Inc.		
	B66	WO2013006544	01-10-2013	Medimune, Inc.		
	B67	WO2013016714	01-31-2013	Sea Lane Biotechnologies, LLC		
	B68	WO2013026833	02-28-2013	Roche Glycart AG		
	B69	WO2013033008	03-07-2013	Merrimack Pharmaceuticals, Inc.		
	B70	WO2013047748	04-04-2013	Chugai Seiyaku Kabushiki Kaisha		
	B71	WO2013055809	04-18-2013	Xencor, Inc.		
	B72	WO2013063702	05-10-2013	Zymeworks Inc.		
	B73	WO2013096828	06-27-2013	Sea Lane Biotechnologies, LLC		
	B74	WO 2013125667	08-29-2013	Chugai Pharmaceuticals Co. Ltd.		
	B75	WO2014004586	01-03-2014	Zymeworks Inc.		
	B76	WO2014012085	01-16-2014	Zymeworks Inc.		

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	c1	Abbott Laboratories, Strategies and Current Approaches for Improving Drug-Like-Properties During Biologics Drug Candidate Selection, AAPS Webinar - 11-10-2011	
	c2	Adams, et al., Avidity-Mediated Enhancement of In vivo Tumor Targeting by Single-Chain Fv Dimers, Clin Cancer Res, 2006, Vol. 12(5), pp. 1599-1605, doi:10.1158/1078-0432.CCR-05-2217	
	c3	Alberola-Ila et al., Stimulation Through the TCR/CD3 Complex Up-Regulates the CD2 Surface Expression on Human T Lymphocytes, 02-15-1991	
	c4	Alibaud et al., A New Monoclonal Anti-CD3? Antibody Reactive on Paraffin Sections, Journal of Histochemistry & Cytochemistry, 2000, Vol. 48, p. 1609	
	c5	An, et al., IgG2m4, an engineered antibody isotype with reduced Fc function, mAbs, 2009, Vol. 1, Issue 6, pp. 572-579, www.landesbioscience.com/journals/mabs/article/10185	
	c6	Arnett, et al., Crystal structure of a human CD3-ε/δ dimer in complex with a UCHT1 single-chain antibody fragment, PNAS, 2004, vol. 101, no. 46, pp. 16268-16273	
	c7	Asano, et al., Cytotoxic enhancement of a bispecific diabody (Db) by format conversion to tandem single-chain variable fragment (taFv): The Case of the hEx3 Diabody, JBC Papers in Press, 2010, http://www.jbc.org/cgi/doi/10.1074/jbc.M110.172957	
	c8	Asano, et al., Highly Effective Recombinant Format of a Humanized IgG-like Bispecific Antibody for Cancer Immunotherapy with Retargeting of Lymphocytes to Tumor Cells, The Journal of Biological Chemistry, 2007, Vol. 282, No. 38, pp. 27659-27665	

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	C9	Atwell, et al., Stable Heterodimers from Remodeling the Domain Interface of a Homodimer using a Phage Display Library, J. Mol. Biol., 1997, Vol. 270, pp. 26-35	
	C10	Baeuerle, et al., Response to Letter, "Correct TandAb protein," Molecular Immunology, 2007, Vol. 44, p. 3084	
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	C13	Bhatt, Sea Lane – DDD presentation, "Surrobodies™ – A Novel Approach to Bispecifics...", August 8, 2012	
	C14	Bibollet-Ruche et al., The Quality of Chimpanzee T-Cell Activation and Simian Immunodeficiency Virus/Human Immunodeficiency Virus Susceptibility Achieved via Antibody-Mediated T-Cell Receptor/CD3 Stimulation Is a Function of the Anti-CD3 Antibody Isotype, 07-30-2008	
	C15	Bluemel, et al., Epitope distance to the target cell membrane and antigen size determine the potency of T cell-mediated lysis by BiTE antibodies specific for a large melanoma surface antigen, Cancer Immunol Immunother, 2010, Vol. 59(8), pp. 1197-1209	
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	C17	Brandl, et al., Bispecific antibody fragments with CD20 3 CD28 specificity allow effective autologous and allogeneic T-cell activation against malignant cells in peripheral blood and bone marrow cultures from patients with B-cell lineage leukemia and lymphoma, Experimental Hematology, 1999, Vol. 27, pp. 1264–1270	

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	C18	Brinkmann, et al., presentation slideshow – “Roche Penzberg & Roche Glycart, Schlieren: Centers of Excellence for Recombinant Proteins”	
	C19	Brinkmann, et al., A recombinant immunotoxin containing a disulfide-stabilized Fv fragment, Proc. Natl. Acad. Sci. USA, 1993, Vol. 90, pp. 7538-7542	
	C20	Carpenter, et al., Non-Fc Receptor-Binding Humanized Anti-CD3 Antibodies Induce Apoptosis of Activated Human T Cells, J. Immunol., 2000, Vol. 165, No. 11, pp. 6205-6213	
	C21	Castoldi, et al., Molecular characterization of novel trispecific ErbB-cMet-IGF1R antibodies and their antigen-binding properties, Protein Engineering, Design & Selection, 2012, Vol. 25, No. 10, pp. 551-559	
	C22	Cemerski, et al., Suppression of mast cell degranulation through a dual-targeting tandem IgE-IgG Fc domain biologic engineered to bind with high affinity to FcγRIIb., Immunol Lett. 2012 Mar 30;143(1):34-43. doi: 10.1016/j.imlet.2012.01.008. Epub 2012 Jan 25.	
	C23	Chames et al., Bispecific antibodies for cancer therapy - The light at the end of the tunnel?, mAbs, 2009, Vol. 1, Issue 6, pp. 1-9	
	C24	Chelius, et al., Structural and functional characterization of the trifunctional antibody catumaxomab, mAbs, 2010, Vol. 2, Issue 3, pp. 309-319	
	C25	Chothia, et al., Structural Determinants in the Sequences of Immunoglobulin Variable Domain, J. Mol. Biol., 1998, Vol. 278, pp. 457-479	
	C26	Conrad, et al., TCR and CD3 Antibody Cross-Reactivity in 44 Species, Cytometry Part A, 2007, Vol. 71A, pp. 925-933	
	C27	Conrath, et al., Antigen Binding and Solubility Effects upon the Veneering of a Camel VHH in Framework-2 to Mimic a VH, J. Mol. Biol., 2005, Vol. 350, pp. 112-125	

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	C28	Cuesta, et al., Multivalent antibodies: when design surpasses evolution, Trends in Biotechnology, 2010, Vol. 28, No. 7, pp. 355–362, doi:10.1016/j.tibtech.2010.03.007	
	C29	d'Argouges, et al., Combination of rituximab with blinatumomab (MT103/MEDI-538), a T cell-engaging CD19-/CD3-bispecific antibody, for highly efficient lysis of human B lymphoma cells, Leukemia Research, 2009, Vol. 33, pp. 465–473	
	C30	Davila, et al., Efficacy and Toxicity Management of 19-28z CAR T Cell Therapy in B Cell Acute Lymphoblastic Leukemia, Sci. Transl. Med., 2014, Vol 6, Issue 224, pp. 1-10, 224ra25	
	C31	Davis, et al., SEEDbodies: fusion proteins based on strand-exchange engineered domain (SEED) C _H 3 heterodimers in an Fc analogue platform for asymmetric binders or immunofusions and bispecific antibodies, Protein Engineering, Design & Selection, 2010, Vol. 23, No. 4 pp. 195–202	
	C32	Demarest et al., Antibody therapeutics, antibody engineering, and the merits of protein stability, Current Opin in Drug Discovery & Development, 2008 11(5): 675-587, 09-11-2008	
	C33	Deyev, et al., Multivalency: the hallmark of antibodies used for optimization of tumor targeting by design, BioEssays, 2008, Vol. 30, pp. 904–918	
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	C35	Dixon, et al., Activation of Human T Lymphocytes by Crosslinking of Anti-CD3 Monoclonal Antibodies, Journal of Leukocyte Biology, 1989, vol. 46, pp. 214-220	

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	C36	Dong et al., A stable IgG-like bispecific antibody targeting the epidermal growth factor receptor and the type I insulin-like growth factor receptor demonstrates superior anti-tumor activity, mAbs 3:3, May-June 2011: 273-288, 05-01-2011	
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	C42	Feldmann et al., Novel Humanized and Highly Efficient Bispecific Antibodies Mediate Killing of Prostate Stem Cell Antigen-Expressing Tumor Cells by CD8+ and CD4+ T cells, 08-08-2012	

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			Application Number	14/155,344	
			Filing Date	January 14, 2014	
			First Named Inventor	Desjarlais et al.	
			Art Unit	1644	
			Examiner Name	Zachary S. SKELDING	
Sheet	15		34	Attorney Docket Number	067461-5161-US02

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	C43	Feldmann et al., Retargeting of T Cells to Prostate Stem Cell Antigen Expressing Tumor Cells: Comparison of Different Antibody Formats, 12-28-2010	
	C44	Fernandes, et al., T Cell Receptors are Structures Capable of Initiating Signaling in the Absence of Large Conformational Rearrangements, The Journal of Biological Chemistry, 2012, Vol. 287, No. 16, pp. 13324-13335	
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	C49	F-star Modular Antibodies Press Release, March 28, 2008, "Antibody Engineering Company F-Star Buys Back Royalty Obligations. TVM Capital Joins Investor Syndicate."	
	C50	Fudenberg, et al., Serologic Demonstration of Dual Specificity of Rabbit Bivalent Hybrid Antibody, The Journal of Experimental Medicine, 1964, Vol. 119(1), pp. 151-166	
	C51	Ganesan et al., FcγRIIb on Liver Sinusoidal Endothelium Clears Small Immune Complexes., The Journal of Immunology, November 15, 2012, vol. 189 no. 10 4981-4988	
	C52	GenBank AAA38124.1, immunoglobulin heavy-chain VJ region [Mus musculus] Protein/NCBI	

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	C53	GenBank AAA39180.1, immunoglobulin light-chain VJ region [Mus musculus] Protein/NCBI	
	C54	Ghendler et al., One of the CD3ε Subunits within a T Cell Receptor Complex Lies in Close Proximity to the Cβ FG Loop, J. Exp. Med., 1998, Volume 187, Number 9. pp. 1529–1536	
	C55	Gilliland, et al., Universal bispecific antibody for targeting tumor cells for destruction by cytotoxic T cells, Proc. Natl. Acad. Sci. USA, 1988, Vol. 85, pp. 7719-7723	
	C56	Gunasekaran et al., Enhancing Antibody Fc Heterodimer Formation through Electrostatic Steering Effects, Journal of Biological Chemistry, Vol 285, No. 25, pp. 19637-10946, 04-16-2010 & Supplementary Tables	
	C57	Haagen, et al., The Efficacy of CD3 x CD19 Bispecific Monoclonal Antibody (BsAb) in a Clonogenic Assay: The Effect of Repeated Addition of BsAb, and Interleukin-2, Blood, 1995, Vol. 85, No. 11, pp. 3208-3212	
	C58	Hamel, et al., The Role of the V _L - and V _H - Segments in the Preferential Reassociation of Immunoglobulin Subunits, Molecular Immunology, 1986, Vol. 23, No. 5, pp. 503-510	
	C59	Hayden-Ledbetter, et al., CD20-Directed Small Modular Immunopharmaceutical, TRU-015, Depletes Normal and Malignant B Cells, Clin Cancer Res, 2009, Vol. 15(8), pp. 2739-2746	
	C60	Hernandez-Caselles, et al., A study of CD33 (SIGLEC-3) antigen expression and function on activated human T and NK cells: two isoforms of CD33 are generated by alternative splicing, J. Leukoc. Biol., 2006, Vol. 79, pp. 46–58	
	C61	Hexham, et al., Influence of relative binding affinity on efficacy in a panel of anti-CD3 scFv immunotoxins, Molecular Immunology, 2001, Vol. 38, pp. 397–408	

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	C62	Hoffmann, et al., Serial killing of tumor cells by cytotoxic T cells redirected with a CD19-/CD3-bispecific single-chain antibody construct, Int. J. Cancer, 2005, Vol. 115, pp. 98-104	
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	C64	Igawa, V _H /V _L interface engineering to promote selective expression and inhibit conformational isomerization of thrombopoietin receptor agonist single-chain diabody, Protein Engineering, Design & Selection, 2010, Vol. 23, No. 8, pp. 667-677	
	C65	Jäger, et al., The Trifunctional Antibody Ertumaxomab Destroys Tumor Cells That Express Low Levels of Human Epidermal Growth Factor Receptor 2, Cancer Res, 2009, Vol. 69(10), pp. 4270-4276	
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	C69	Johnson, et al., Effector Cell Recruitment with Novel Fv-based Dual-affinity Re-targeting Protein Leads to Potent Tumor Cytolysis and in Vivo B-cell Depletion, J. Mol. Biol., 2010, Vol. 399, pp. 436-449	

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Sheet	18	34	Attorney Docket Number	067461-5161-US02

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	C70	Jordan et al., Structural understanding of stabilization patterns in engineered bispecific Ig-like antibody molecules, Proteins 2009; 77:832-841, 06-19-2009	
	C71	Jung, et al., Design of interchain disulfide bonds in the framework region of the Fv fragment of the monoclonal antibody B3, Proteins, 1994, Vol. 19(1), pp. 35-47	
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	C74	Keyna, et al., Surrogate Light Chain-Dependent Selection of Ig Heavy Chain V Regions, J. Immunol., 1995, Vol. 155, pp. 5536-5542	
	C75	Kiewe, et al., Phase I Trial of the Trifunctional Anti-HER2 x Anti-CD3 Antibody Ertumaxomab in Metastatic Breast Cancer, Clin Cancer Res., 2006, Vol. 12(10), pp. 3085-3091	
	C76	Kipriyanov, et al., Bispecific CD3 x CD19 Diabody for T Cell-Mediated Lysis of Malignant Human B Cells, Int. J. Cancer, 1998, Vol. 77, pp. 763-772	
	C77	Kipriyanov, et al., Bispecific Tandem Diabody for Tumor Therapy with Improved Antigen Binding and Pharmacokinetics, J. Mol. Biol., 1999, Vol. 293, pp. 41-56	
	C78	Kipriyanov, et al., Effect of Domain Order on the Activity of Bacterially Produced Bispecific Single-chain Fv Antibodies, J. Mol. Biol., 2003, Vol. 330, pp. 99-111	

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	C79	Kipriyanov, et al., Two amino acid mutations in an anti-human CD3 single chain Fv antibody fragment that affect the yield on bacterial secretion but not the affinity, Protein Engineering, 1997, Vol.10, No.4, pp. 445-453	
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	C81	Klinger, et al., Immunopharmacologic response of patients with B-lineage acute lymphoblastic leukemia to continuous infusion of T cell-engaging CD19/CD3-bispecific BiTE antibody blinatumomab, Blood, 2012, Vol. 119, No. 26, pp. 6226-6233	
	C82	Koristka, et al., Retargeting of Human Regulatory T Cells by Single-Chain Bispecific Antibodies, The Journal of Immunology, 2012, Vol. 188, pp. 1551-1558, www.jimmunol.org/cgi/doi/10.4049/jimmunol.1101760	
	C83	Kostelny, et al., Formation of a Bispecific Antibody by the Use of Leucine Zippers, The Journal of Immunology 1992, Vol. 148, pp. 1547-1553	
	C84	Krupka, et al., CD33 target validation and sustained depletion of AML blasts in long-term cultures by the bispecific T-cell-engaging antibody AMG 330, Blood, 2014, Vol. 123, No. 3, pp. 356-365, Prepublished online December 3, 2013; doi:10.1182/blood-2013-08-523548 & Data Supplement	
	C85	Kung, et al., Monoclonal Antibodies Defining Distinctive Human T Cell Surface Antigens, Science, 1979, Vol. 206, pp. 347-349	
	C86	Labrijn, et al., Efficient generation of stable bispecific IgG1 by controlled Fab-arm exchange, www.pnas.org/cgi/doi/10.1073/pnas.1220145110 & Supporting Information	

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	C87	Laszlo et al., Cellular determinants for preclinical activity of a novel CD33/CD3 bispecific T-cell engager (BiTE) antibody, AMG 330, against human AML, blood 2014 123: 554-561, 12-05-2013	
	C88	Lewis, et al., Generation of bispecific IgG antibodies by structure-based design of an orthogonal Fab interface, Nature Biotechnology, 2014, doi:10.1038/nbt.2797 & Supplemental Information	
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	C90	Lindhofer, et al., Preferential Species-Restricted Heavy/Light Chain Pairing in Rat/Mouse Quadromas: Implications for a Single-Step Purification of Bispecific Antibodies, The Journal of Immunology, 1995, Vol. 155, pp. 219-225	
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	C92	Link, et al., Production and Characterization of a Bispecific IgG Capable of Inducing T-Cell-Mediated Lysis of Malignant B Cells, Blood, 1993, Vol. 81, No. 12, pp. 3343-3349	
	C93	Linke, et al., Catumaxomab, Clinical development and future directions, mAbs, 2010, Vol. 2, Issue 2, pp. 129-136	
	C94	Little, et al., Letter to the Editor, "Flawed TandAb production," Molecular Immunology, 2007, Vol. 44, p. 3083	
	C95	Liu et al, Asymmetrical Fc Engineering Greatly Enhances Antibody-dependent Cellular Cytotoxicity (ADCC) Effector Function and Stability of the Modified Antibodies, J. Biol. Chem. 2014, 289: 3571-3590, 12-05-2013	

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			Application Number	14/155,344	
			Filing Date	January 14, 2014	
			First Named Inventor	Desjarlais et al.	
			Art Unit	1644	
			Examiner Name	Zachary S. SKELDING	
Sheet	21		34	Attorney Docket Number	067461-5161-US02

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	C96	Liu, et al., Crystallization of a Deglycosylated T Cell Receptor (TCR) Complexed with an Anti-TCR Fab Fragment, The Journal of Biological Chemistry, 1996, Vol. 271, No. 52, pp. 33639-33646	
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	C102	Lum, et al., The new face of bispecific antibodies: targeting cancer and much more, Experimental Hematology, 2006, Vol. 34, pp. 1-6	
	C103	Lutterbuese, et al., AACR Poster, "Conversion of Cetuximab, Panitumumab, Trastuzumab and Omalizumab into T Cell-engaging BiTE Antibodies Creates Novel Drug Candidates of High Potency," 2008	

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	C104	Lutterbuese, et al., T cell-engaging BiTE antibodies specific for EGFR potentially eliminate KRAS- and BRAF-mutated colorectal cancer cells, PNAS Early Edition, 2010, www.pnas.org/cgi/doi/10.1073/pnas.1000976107 & Supporting Information	
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	C107	Mabry, et al., Engineering of stable bispecific antibodies targeting IL-17A and IL-23, Protein Engineering, Design & Selection, 2009, Vol. 23, No. 3, pp. 115-127; doi:10.1093/protein/gzp073 & Supplementary Figures 1-8	
	C108	Mack, et al., A small bispecific antibody construct expressed as a functional single-chain molecule with high tumor cell cytotoxicity, Proc. Natl. Acad. Sci. USA, 1995, Vol. 92, pp. 7021-7025	
	C109	Mack, et al., Biologic Properties of a Bispecific Single-Chain Antibody Directed Against 17-1A (EpCAM) and CD3 - Tumor Cell-Dependent T Cell Stimulation and Cytotoxic Activity, The Journal of Immunology, 1997, Vol. 158, pp. 3965-3970	
	C110	MacroGenics Factsheet, Dual Affinity Re-Targeting ("DART") Platform, 2010	
	C111	Mandy, et al., Effect of Reduction of Several Disulfide Bonds on the Properties and Recombination of Univalent Fragments of Rabbit Antibody, The Journal of Biological Chemistry, 1963, Vol. 238, No. 1, pp. 206-213	

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	C113	Martin, et al., Generation of the Germline Peripheral B Cell Repertoire: VH81X-λ B Cells Are Unable to Complete All Developmental Programs, J. Immunol., 1998, Vol. 160, pp. 3748-3758	
	C114	Martinez, et al., Characterization of a novel modification on IgG2 light chain: Evidence for the presence of O-linked mannosylation, J. Chromatogr. A, 2007, Vol. 1156 pp. 183-187	
	C115	Marvin, Bispecific antibodies for dual-modality cancer therapy: killing two signaling cascades with one stone, Curr Opin Drug Discov Devel, 2006, Vol. 9(2), pp. 184-93	
	C116	Marvin, et al., Recombinant approaches to IgG-like bispecific antibodies, Acta Pharmacologica Sinica, 2005, Vol. 26 (6), pp. 649-658	
	C117	McPhee, Engineering human immunodeficiency virus 1 protease heterodimers as macromolecular inhibitors of viral maturation, Proc. Natl. Acad. Sci. USA, 1996, Vol. 93, pp. 11477-11481	
	C118	Meijer, et al., Isolation of Human Antibody Repertoires with Preservation of the Natural Heavy and Light Chain Pairing, J. Mol. Biol., 2006, Vol. 358, pp. 764-772	
	C119	Merchant, et al., An efficient route to human bispecific IgG, Nature Biotechnology, 1998, Vol. 16, pp. 677-681	
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	C121	Metz, et al., Bispecific digoxigenin-binding antibodies for targeted payload delivery, PNAS, 2011, Vol. 108, no. 20, pp. 8194-8199	

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	C123	Miller et al., Stability engineering of scFvs for the development of bispecific and multivalent antibodies, PEDS, 2010, Vol. 23, No. 7, pp. 549-557 & Supplementary Data	
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	C126	Mimoto, et al., Novel asymmetrically engineered antibody Fc variant with superior FcγR binding affinity and specificity compared with afucosylated Fc variant, mAbs, 2013, Vol. 5, Issue 2, pp. 229-236	
	C127	Mølhøj, et al., CD19-/CD3-bispecific antibody of the BiTE class is far superior to tandem diabody with respect to redirected tumor cell lysis, Molecular Immunology 2007, Vol. 44 , pp. 1935-1943	
	C128	Moore, et al., A novel bispecific antibody format enables simultaneous bivalent and monovalent co-engagement of distinct target antigens., MABs. 2011 Nov-Dec; 3(6): 546-557; Published online Nov 1, 2011. doi: 10.4161/mabs.3.6.18123	
	C129	Moore, et al., Application of dual affinity retargeting molecules to achieve optimal redirected T-cell killing of B-cell lymphoma, Blood, 2011, Vol. 117, No. 17, pp. 4542-4551	

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	C131	Morrison, et al., News and Views: Two heads are better than one, Nature Biotechnology, 2007, Vol. 25, No. 11, pp. 1233-1234	
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	C141	Pessano, et al., The T3/T cell receptor complex: antigenic distinction between the two 20-kd T3 (T3-δ and T3-ε) subunits, The EMBO Journal, 1985, Vol. 4, No. 2, pp. 337-344	
	C142	Pichler et al., Differences of T-Cell Activation by the Anti-CD3 Antibodies Leu4 and BMA030, 03-30-1987	
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	C146	Reiter et al., Engineering interchain disulfide bonds into conserved framework regions of Fv fragments: improved biochemical characteristics of recombinant immunotoxins containing disulfide-stabilized Fv, Protein Eng., 1994, Vol. 7(5), pp. 697-704	
	C147	Repp, et al., Combined Fc-protein- and Fc-glyco-engineering of scFv-Fc fusion proteins synergistically enhances CD16a binding but does not further enhance NK-cell mediated ADCC, Journal of Immunological Methods, 2011, Vol. 373, Issues 1-2, pp. 67-78	
	C148	Ridgway, et al., 'Knobs-into-holes' engineering of antibody CH3 domains for heavy chain heterodimerization, Protein Engineering, 1996, Vol. 9, no. 7, pp. 617-621	

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			Filing Date	January 14, 2014	
			First Named Inventor	Desjarlais et al.	
			Art Unit	1644	
			Examiner Name	Zachary S. SKELDING	
Sheet	28		34	Attorney Docket Number	067461-5161-US02

NON PATENT LITERATURE DOCUMENTS			
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			Application Number	14/155,344	
			Filing Date	January 14, 2014	
			First Named Inventor	Desjarlais et al.	
			Art Unit	1644	
			Examiner Name	Zachary S. SKELDING	
Sheet	34		34	Attorney Docket Number	067461-5161-US02

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	C209	Zeidler, et al., The Fc-region of a new class of intact bispecific antibody mediates activation of accessory cells and NK cells and induces direct phagocytosis of tumour cells, Br J Cancer, 2000, Vol. 83(2), pp. 261-266	
	C210	Zhu, et al., Identification of Heavy Chain Residues in a Humanized Anti-CD3 Antibody Important for Efficient Antigen Binding and T Cell Activation, The Journal of Immunology, 1995, Vol. 155, pp. 1903-1910	
	C211	Zhu, et al., Remodeling domain interfaces to enhance heterodimer formation, Protein Science, 1997, Vol. 6, pp. 781-788	
	C212	Zuo, et al., An efficient route to the production of an IgG-like bispecific antibody, Protein Engineering, 2000, Vol. 13, No. 5, pp. 361-367	

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