ETAS ID: TM389415

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: SECURITY INTEREST

CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
CAREDX, INC.		06/27/2016	Corporation: DELAWARE

TRADEMARK ASSIGNMENT COVER SHEET

RECEIVING PARTY DATA

Name:	EAST WEST BANK
Street Address:	2350 Mission College Blvd., Suite 988
City:	Santa Clara
State/Country:	CALIFORNIA
Postal Code:	95054
Entity Type:	Corporation: CALIFORNIA

PROPERTY NUMBERS Total: 11

Property Type	Number	Word Mark
Registration Number:	4884670	CAREDX
Serial Number:	86220870	CAREDX
Serial Number:	86428517	ALLOSURE
Serial Number:	86425845	RENAMAP
Serial Number:	86404134	RENASURE
Registration Number:	3143352	ALLOMAP
Registration Number:	3442169	ALLOMAP
Registration Number:	3896426	CAREDX
Registration Number:	3199533	XDX EXPRESSION DIAGNOSTICS
Registration Number:	3437631	XDX
Registration Number:	3160957	XDX

CORRESPONDENCE DATA

900369346

Fax Number: 8585506420

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 858-550-6433

Email: jmfitzpatrick@cooley.com **Correspondent Name:** JENNIFER FITZPATRICK

Address Line 1: C/O COOLEY LLP
Address Line 2: 4401 EASTGATE MALL

TRADEMARK

REEL: 005824 FRAME: 0300

Address Line 4: S.	AN DIEGO, CALIFORNIA 92121
ATTORNEY DOCKET NUMBER:	300614-149 CAREDX
NAME OF SUBMITTER:	JENNIFER FITZPATRICK
SIGNATURE:	/JENNIFER FITZPATRICK/
DATE SIGNED:	06/27/2016
Total Attachments: 7	

source=EWB - CareDx - Intellectual Property Security Agreement (executed) - 6.27.16#page1.tif source=EWB - CareDx - Intellectual Property Security Agreement (executed) - 6.27.16#page2.tif source=EWB - CareDx - Intellectual Property Security Agreement (executed) - 6.27.16#page3.tif source=EWB - CareDx - Intellectual Property Security Agreement (executed) - 6.27.16#page4.tif source=EWB - CareDx - Intellectual Property Security Agreement (executed) - 6.27.16#page5.tif source=EWB - CareDx - Intellectual Property Security Agreement (executed) - 6.27.16#page6.tif source=EWB - CareDx - Intellectual Property Security Agreement (executed) - 6.27.16#page7.tif

INTELLECTUAL PROPERTY SECURITY AGREEMENT

This **INTELLECTUAL PROPERTY SECURITY AGREEMENT** is entered into as of June 27, 2016 by and between EAST WEST BANK ("Bank") and CAREDX, INC. ("Grantor").

RECITALS

- **A.** Bank has agreed to make certain advances of money and to extend certain financial accommodations to Grantor (the "Loans") in the amounts and manner set forth in that certain Loan and Security Agreement by and between Bank and Grantor dated as of January 30, 2015 (as the same may be amended, modified or supplemented from time to time, the "Loan Agreement"; capitalized terms used herein are used as defined in the Loan Agreement). Bank is willing to make the Loans to Grantor, but only upon the condition, among others, that Grantor shall grant to Bank a security interest in certain Copyrights, Trademarks and Patents to secure the obligations of Grantor under the Loan Agreement.
- **B.** Pursuant to the terms of the Loan Agreement, Grantor has granted to Bank a security interest in all of Grantor's right, title and interest, whether presently existing or hereafter acquired, in, to and under all of the Collateral.

Now, Therefore, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment when due of its obligations under the Loan Agreement and all other agreements now existing or hereafter arising between Grantor and Bank, Grantor hereby represents, warrants, covenants and agrees as follows:

AGREEMENT

To secure its obligations under the Loan Agreement and under any other agreement now existing or hereafter arising between Grantor and Bank, Grantor grants and pledges to Bank a security interest in all of Grantor's right, title and interest in, to and under its Intellectual Property Collateral (including without limitation those Copyrights, Patents and Trademarks listed on Exhibits A, B and C hereto), and including without limitation all proceeds thereof (such as, by way of example but not by way of limitation, license royalties and proceeds of infringement suits), the right to sue for past, present and future infringements, all rights corresponding thereto throughout the world and all re-issues, divisions continuations, renewals, extensions and continuations-in-part thereof.

This security interest is granted in conjunction with the security interest granted to Bank under the Loan Agreement. The rights and remedies of Bank with respect to the security interest granted hereby are in addition to those set forth in the Loan Agreement and the other Loan Documents, and those which are now or hereafter available to Bank as a matter of law or equity. Each right, power and remedy of Bank provided for herein or in the Loan Agreement or any of the Loan Documents, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein and the exercise by Bank of any one or more of the rights, powers or remedies provided for in this Intellectual Property Security Agreement, the Loan Agreement or any of the other Loan Documents, or now or hereafter existing at law or in equity, shall not preclude the simultaneous or later exercise by any person, including Bank, of any or all other rights, powers or remedies.

Grantor represents and warrants that Exhibits A, B, and C attached hereto set forth any and all intellectual property rights in connection to which Grantor has registered or filed an application with either the United States Patent and Trademark Office or the United States Copyright Office, as applicable.

This Agreement may be executed in two or more counterparts, each of which shall be deemed an original but all of which together shall constitute the same instrument.

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1.

IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

GRANTOR:

Address of Grantor:	CAREDX, INC.
3260 Bayshore Boulevard	By Market San
Brisbane, CA 94005	Name <u> </u>
Attn: Chief Executive Officer	
	BANK:
Address of Bank	EAST WEST BANK
2350 Mission College Blvd., Suite 988	By
Santa Clara, CA 95054	Name
40000114 [1841] 114 - 114 - 114 - 114 - 114 - 114 - 114 - 114 - 114 - 114 - 114 - 114 - 114 - 114 - 114 - 114	Title

(Signature Page to Intellectual Property Security Agreement)

132754262 ×3

Attn. Linda LeBeau, Managing Director

IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

GRANTOR:

CAREDX, INC.
Ву:
Name: Title:
BANK:
EAST WEST BANK
By: Year Name: Linda S. Ke Beau Title: Managing Director, Life Sciences

[Signature Page to Intellectual Property Security Agreement]

Attn: Linda LeBeau, Managing Director

EXHIBIT A

Copyrights

	Registration		
Description	Number	Registration Date	
None.			

1.

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EXHIBIT B

Patents

Description	Patent / Application Number	Issue / Application Date
Methods and compositions for diagnosing or monitoring auto immune and chronic inflammatory diseases	6,905,827	06/14/2005
Methods and compositions for diagnosing and monitoring transplant rejection	7,026,121	04/11/2006
Methods and compositions for diagnosing and monitoring transplant rejection	7,235,358	06/26/2007
Methods and compositions for diagnosing or monitoring autoimmune and chronic inflammatory diseases	7,579,148	08/25/2009
Methods and compositions for diagnosis and monitoring auto immune and chronic inflammatory diseases	7,604,936	10/20/2009
Genes useful for diagnosing and monitoring inflammation related disorders	7,645,575	01/12/2010
Methods and compositions for diagnosing and monitoring transplant rejection	7,691,569	04/06/2010
Methods and compositions for diagnosing and monitoring auto immune and chronic inflammatory diseases	7,771,950	08/10/2010
Methods and compositions for diagnosing and monitoring transplant rejection	7,785,797	08/31/2010
Methods and compositions for diagnosing and monitoring transplant rejection	7,829,286	11/09/2010
Methods and compositions for diagnosing and monitoring transplant rejection	7,879,556	02/01/2011
Methods and compositions for diagnosing and monitoring transplant rejection	7,892,745	02/22/2011
Methods and compositions for diagnosing and monitoring transplant rejection	7,960,121	06/14/2011
Methods and compositions for diagnosing and monitoring the status of transplant rejection and immune disorders	7,993,832	08/09/2011
Methods and compositions for diagnosing or monitoring autoimmune and chronic inflammatory diseases	8,110,364	02/07/2012
Methods for diagnosing and monitoring the status of systemic lupus erythematosus	8,148,067	04/03/2012

	Patent / Application	Issue / Application
Description	Number	Date
Methods of monitoring immunosuppressive therapies in a	14/658,061	03/13/2015
transplant recipient		

EXHIBIT C

Trademarks

Description	Registration/ Serial Number	Registration/ Application Date
CAREDX	4,884,670	01/12/2016
CAREDX	86/220,870	03/13/2014
ALLOSURE	86/428,517	10/20/2014
RENAMAP	86/425,845	10/16/2014
RENASURE	86/404,134	09/24/2014
ALLOMAP	3,143,352	09/12/2006
ALLOMAP	3,442,169	06/03/2008
CAREDX	3,896,426	12/28/2010
XDX EXPRESSION DIAGNOSTICS & DESIGN	3,199,533	01/16/2007
XDX	3,437,631	05/27/2008
XDX	3,160,957	10/17/2006

4.

RECORDED: 06/27/2016