

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2838898

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SUPPLEMENT TO PATENT SECURITY AGREEMENT (ABL)

CONVEYING PARTY DATA

Name	Execution Date
DELL PRODUCTS L.P.	04/02/2014
DELL SOFTWARE INC.	04/02/2014
SECUREWORKS, INC.	04/02/2014

RECEIVING PARTY DATA

Name:	BANK OF AMERICA, N.A., AS ADMINISTRATIVE AGENT
Street Address:	101 N. TRYON STREET
Internal Address:	5TH FLOOR
City:	CHARLOTTE
State/Country:	NORTH CAROLINA
Postal Code:	28255-0001

PROPERTY NUMBERS Total: 69

Property Type	Number
Application Number:	14178102
Application Number:	14178725
Application Number:	14178729
Application Number:	14180742
Application Number:	14180809
Application Number:	14181483
Application Number:	14181482
Application Number:	14182647
Application Number:	14182739
Application Number:	14185549
Application Number:	14186870
Application Number:	14186903
Application Number:	14186917
Application Number:	14186945
Application Number:	14189360
Application Number:	14189991
Application Number:	14190465
Application Number:	14190563

PATENT

Property Type	Number
Application Number:	14190767
Application Number:	14190850
Application Number:	14190985
Application Number:	14191068
Application Number:	14193242
Application Number:	14193447
Application Number:	14194648
Application Number:	14194652
Application Number:	14194670
Application Number:	14195544
Application Number:	14196124
Application Number:	14198602
Application Number:	14199660
Application Number:	14199686
Application Number:	14199701
Application Number:	14199715
Application Number:	14199721
Application Number:	14199735
Application Number:	14199748
Application Number:	14202270
Application Number:	14202341
Application Number:	14205595
Application Number:	14209382
Application Number:	14215302
Application Number:	14215637
Application Number:	14218393
Application Number:	14219308
Application Number:	14219771
Application Number:	14220651
Application Number:	14220763
Application Number:	14220789
Application Number:	14221371
Application Number:	14221374
Application Number:	14221377
Application Number:	14221381
Application Number:	14221654
Application Number:	14221878
Application Number:	14221912
Application Number:	14221928

PATENT

Property Type	Number
Application Number:	14221942
Application Number:	14221967
Application Number:	14224260
Application Number:	14224601
Application Number:	14225170
Application Number:	29482165
Application Number:	29484470
Application Number:	14178158
Application Number:	14178165
Application Number:	14191648
Application Number:	14193194
Application Number:	14223779

CORRESPONDENCE DATA

Fax Number: (650)251-5002

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

Phone: 6502515047

Email: jnull@stblaw.com

Correspondent Name: MICHELLE MORAD

Address Line 1: 2475 HANOVER STREET

Address Line 2: FLOOR 14

Address Line 4: PALO ALTO, CALIFORNIA 94304

ATTORNEY DOCKET NUMBER: 001909/0002

NAME OF SUBMITTER: J. JASON MULL

SIGNATURE: /J. Jason Mull/

DATE SIGNED: 05/01/2014

Total Attachments: 8

source=Agreement - Dell Patent Security (ABL) - 4-2-2014#page1.tif

source=Agreement - Dell Patent Security (ABL) - 4-2-2014#page2.tif

source=Agreement - Dell Patent Security (ABL) - 4-2-2014#page3.tif

source=Agreement - Dell Patent Security (ABL) - 4-2-2014#page4.tif

source=Agreement - Dell Patent Security (ABL) - 4-2-2014#page5.tif

source=Agreement - Dell Patent Security (ABL) - 4-2-2014#page6.tif

source=Agreement - Dell Patent Security (ABL) - 4-2-2014#page7.tif

source=Agreement - Dell Patent Security (ABL) - 4-2-2014#page8.tif

SUPPLEMENTAL PATENT SECURITY AGREEMENT dated as of April 2, 2014 (this "Agreement"), among Dell Products L.P., a Texas limited partnership, Dell Software Inc., a Delaware corporation, and SecureWorks, Inc., a Georgia corporation (each a "Grantor") and Bank of America, N.A., as Administrative Agent (in such capacity, the "Administrative Agent").

Reference is made to (a) the ABL Credit Agreement dated as of October 29, 2013 (as amended, supplemented or otherwise modified from time to time, the "Credit Agreement"), among Denali Intermediate Inc., a Delaware corporation ("Holdings"), Dell Inc., a Delaware corporation (the "Company"), Dell International L.L.C., a Delaware limited liability company (the "U.S. Borrower"), Dell Canada Inc. (the "Canadian Borrower"), Dell Products, a company with unlimited liability incorporated in accordance with the laws of Ireland (the "Irish Borrower") the Lenders party thereto, Bank of America, N.A., as Administrative Agent and Bank of America, N.A. (London Branch), as Irish Facility Security Trustee and the various other parties thereto and (b) the Collateral Agreement dated as of October 29, 2013 (the "Collateral Agreement"), among Denali Intermediate Inc., Dell Inc., Dell International LLC, the other Grantors from time to time party thereto and the Administrative Agent. The Lenders and have agreed to extend credit to the Borrowers subject to the terms and conditions set forth in the Credit Agreement. Each Grantor is an Affiliate of the Borrowers and is willing to execute and deliver this Agreement in order to induce the Lenders to make additional Loans and as consideration for Loans previously made. Accordingly, the parties hereto agree as follows:

SECTION 1. Terms. Capitalized terms used in this Agreement and not otherwise defined herein have the meanings specified in the Collateral Agreement or the Credit Agreement, as applicable. The rules of construction specified in Section 1.01(b) of the Collateral Agreement also apply to this Agreement.

SECTION 2. Grant of Security Interest. As security for the payment or performance, as the case may be, in full of the Secured Obligations, each Grantor hereby grants to the Administrative Agent, its successors and assigns, for the benefit of the Secured Parties, a security interest (the "Security Interest") in all of such Grantor's right, title and interest in, to and under any Patents now owned or at any time hereafter acquired by such Grantor, including those listed on Schedule I (the "Patent Collateral").

SECTION 3. Collateral Agreement. The Security Interest granted to the Administrative Agent herein is granted in furtherance, and not in limitation, of the security interests granted to the Administrative Agent pursuant to the Collateral Agreement. Each Grantor hereby acknowledges and affirms that the rights and remedies of the Administrative Agent with respect to the Patent Collateral are more fully set forth in the Collateral Agreement, the terms and provisions of which are hereby incorporated herein by reference as if fully set forth herein. In the event of any conflict between the terms of this Agreement and the Collateral Agreement, the terms of the Collateral Agreement shall govern.

SECTION 4. Counterparts. This Agreement may be executed in counterparts (and by different parties hereto on different counterparts), each of which shall constitute an original but all of which when taken together shall constitute a single contract. Delivery of an executed signature page to this Agreement by facsimile or other electronic transmission shall be effective as delivery of a manually signed counterpart of this Agreement.

IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement as of the day and year first above written.

DELL PRODUCTS L.P.

By: 

Name:

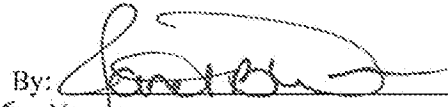
Title:

Janet B. Wright
Vice President &
Assistant Secretary

[SIGNATURE PAGE TO SUPPLEMENT TO PATENT ABL SECURITY AGREEMENT]

PATENT
REEL: 032810 FRAME: 0027

DELL SOFTWARE INC.

By: 

Name:

Title:

Janet B. Wright
Vice President &
Assistant Secretary

[SIGNATURE PAGE TO SUPPLEMENT TO PATENT ABL SECURITY AGREEMENT]

PATENT
REEL: 032810 FRAME: 0028

SECUREWORKS, INC.

By: 

Name:

Title:

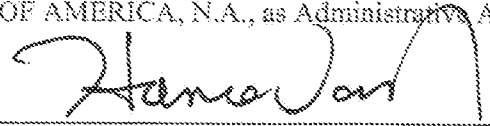
**Janet B. Wright
Vice President &
Assistant Secretary**

[SIGNATURE PAGE TO SUPPLEMENT TO PATENT ABL SECURITY AGREEMENT]

**PATENT
REEL: 032810 FRAME: 0029**

BANK OF AMERICA, N.A., as Administrative Agent,

By:



Name:

Title:

Hance VanBeber
Sr. Vice President

[SIGNATURE PAGE TO SUPPLEMENT TO PATENT ABL SECURITY AGREEMENT]

PATENT
REEL: 032810 FRAME: 0030

Schedule I

GRANTED U.S. PATENTS

NONE.

PENDING U.S. PATENTS

Application #	Title	Assignee
14/178102	Method for servicing power spikes between adjacent PoE PSE devices	Dell Products L.P.
14/178725	System and Method for Transferring Data using a Directional Touch Gesture	Dell Products L.P.
14/178729	Unified Extensible Firmware Interface System Management Mode Initialization Protections with System Management Interrupt Transfer Monitor Sandboxing	Dell Products L.P.
14/180742	Auto-snapshot Manager Analysis tool	Dell Products L.P.
14/180809	Methods and Systems for Providing User Selection of Associations Between Information Handling Resources and Information Handling Systems in an Integrated Chassis	Dell Products L.P.
14/181483	MAC TABLE REDUCTION	Dell Products L.P.
14/181482	How Multiple Screens on Enterprise Chassis Equipment can function together as a Single User Interface	Dell Products L.P.
14/182647	Method to capture the games executable on indirect launching for successful set and restore of environment settings	Dell Products L.P.
14/182739	Method for Processing UEFI Protocols and System Therefor	Dell Products L.P.
14/185549	Peer Assisted Deployment of Resources in a Network	Dell Products L.P.
14/186870	Front-End High Availability Prodx	Dell Products L.P.
14/186903	Generic Transcoding Service with Library Attachment	Dell Products L.P.
14/186917	Video Compose Function	Dell Products L.P.
14/186945	Transcoding Instance with Multiple Channels	Dell Products L.P.
14/189360	METHODS AND SYSTEMS FOR MULTIPLE MODULE POWER REGULATION IN A MODULAR CHASSIS	Dell Products L.P.
14/189991	SECURE SERVICE DELEGATOR	Dell Products L.P.
14/190465	SYSTEMS AND METHODS FOR SECURING BIOS VARIABLES	Dell Products L.P.
14/190563	SYSTEMS AND METHODS FOR PROVIDING USER-VISIBLE THERMAL PERFORMANCE DEGRADATION MONITORING IN AN INFORMATION HANDLING SYSTEM	Dell Products L.P.
14/190767	SYSTEMS AND METHODS FOR MUTING VISUAL INDICATORS IN AN INFORMATION HANDLING SYSTEM	Dell Products L.P.
14/190850	System and method to monitor contact joint integrity	Dell Products L.P.
14/190985	IMPROVED BANDWIDTH OPTIMIZATION FOR REMOTE DESKTOP PROTOCOL	Dell Products L.P.
14/191068	System and Method for Handling Remote Drawing Commands	Dell Products L.P.
14/193242	S M Creating Conditional Immutable Objects in a Storage Device	Dell Products L.P.
14/193447	Display of Objects on a Touch Screen and Their Selection	Dell Products L.P.

Application #	Title	Assignee
14/194648	METHODS AND SYSTEMS FOR OPTIMIZATION OF STORAGE PERFORMANCE ACROSS MULTIPLE COMPUTE DEVICES	Dell Products L.P.
14/194652	MULTI-MODE HYBRID STORAGE DRIVE	Dell Products L.P.
14/194670	System and Method for Managing Multi-tenant Chassis Environment Using Virtual Private Chassis Management Controllers	Dell Products L.P.
14/195544	Interactive Projector Device	Dell Products L.P.
14/196124	Method to auto-configure local PHY using remote PHY	Dell Products L.P.
14/198602	N-Node Virtual Link Trunking (VLT) Supporting Arbitrary Topologies	Dell Products L.P.
14/199660	System and Method for Providing a Server Rack Management Controller	Dell Products L.P.
14/199686	System and Method for Providing a U-Space Aligned KVM/Ethernet Management Switch/Serial Aggregator Controller	Dell Products L.P.
14/199701	System and Method for Server Rack Power Mapping	Dell Products L.P.
14/199715	System and Method for Server Rack Power Management	Dell Products L.P.
14/199721	System and Method for Server Rack and Data Center Cooling	Dell Products L.P.
14/199735	System and Method for Providing a Tile Management Controller	Dell Products L.P.
14/199748	System and Method for Providing a Data Center Management Controller	Dell Products L.P.
14/202270	Condition Based Pre-charge and Unrecoverable Voltage for Li-Ion battery cell	Dell Products L.P.
14/202341	Method for Adapter Over-Current-Protection (OCP) Protection and User Warning	Dell Products L.P.
14/205595	Method for storing and accessing structured data into an indexed key/value pair for offline access	Dell Products L.P.
14/209382	Systems And Methods For Defining Configurations And/or Controlling Operation For Variable Pressure Sensor And Keyboards Of Information Handling Systems Using	Dell Products L.P.
14/215302	SYSTEMS AND METHODS FOR EXTENDED POWER PERFORMANCE CAPABILITY DISCOVERY FOR A MODULAR CHASSIS	Dell Products L.P.
14/215637	Striping Cache Blocks with Logical Block Address Scrambling	Dell Products L.P.
14/218393	Systems And Methods for Dynamic Memory Allocation Of Fault Resistant Memory (FRM)	Dell Products L.P.
14/219308	System and Method for Running a Validation Process for an Information Handling System During a Factory Process	Dell Products L.P.
14/219771	Message Processing using dynamic load balancing queues in a Messaging System	Dell Products L.P.
14/220651	Dynamic Session Transformation	Dell Products L.P.
14/220763	System and method for automatic access layer configuration	Dell Products L.P.
14/220789	System and Method for Coordinating Image Capture in a Camera Hidden Behind a Display Device	Dell Products L.P.
14/221371	Method and apparatus to derive product- level competitive insights in real-time using social media analytics	Dell Products L.P.
14/221374	Method and apparatus to create a mash-up of social media data and business data to derive actionable insights for the business	Dell Products L.P.
14/221377	Method and apparatus to calculate real-time customer satisfaction and loyalty metric using social media analytics	Dell Products L.P.
14/221381	Method and apparatus to calculate social pricing index to determine product pricing in real-time	Dell Products L.P.

Application #	Title	Assignee
14/221654	Projected Information Handling System Input Interface with Dynamic Adjustment	Dell Products L.P.
14/221878	Projected Information Handling System Input Environment with Object Initiated Responses	Dell Products L.P.
14/221912	Context Adaptable Projected Information Handling System Input Environment	Dell Products L.P.
14/221928	Gesture Controlled Adaptive Projected Information Handling System Input and Output Devices	Dell Products L.P.
14/221942	Interactive Projected Information Handling System Support Input and Output Devices	Dell Products L.P.
14/221967	Adaptive Projected Information Handling System Output Devices	Dell Products L.P.
14/224260	System and Method for Using a Side Camera for a Free Space Gesture Inputs	Dell Products L.P.
14/224601	SAN Performance Analysis Tool	Dell Products L.P.
14/225170	Method for Generating Custom BIOS Setup Interface and System Therefo	Dell Products L.P.
14/799731	System and Method for Closed-Loop Thermal Control Utilizing a Smart Floor Tile	Dell Products L.P.
29/482165	Information Handling System Housing	Dell Products L.P.
29/484470	Information Handling System Housing	Dell Products L.P.
14/178158	System and Method for Managing a Clustered Radio Network	Dell Software Inc.
14/178165	System and Method for Collecting Data from Low-Availability Devices	Dell Software Inc.
14/191648	SYSTEM AND METHOD FOR CONTENT-INDEPENDENT DETERMINATION OF FILE-SYSTEM-OBJECT RISK OF EXPOSURE	Dell Software Inc.
14/193194	Discovering Site Owners and Enabling Collaboration between them in a SharePoint (or similar) Corporate Network	Dell Software Inc.
14/223779	Method for Determining Normal Sequences of Events	SecureWorks, Inc.