

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT2838871

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	SUPPLEMENT TO PATENT SECURITY AGREEMENT (TERM LOAN)

**CONVEYING PARTY DATA**

Name	Execution Date
COMPELLENT TECHNOLOGIES, INC.	03/21/2014
DELL PRODUCTS L.P.	03/21/2014
DELL SOFTWARE INC.	03/21/2014
FORCE10 NETWORKS, INC.	03/21/2014
SECUREWORKS, INC.	03/21/2014

**RECEIVING PARTY DATA**

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

**PROPERTY NUMBERS Total: 187**

Property Type	Number
Patent Number:	8543859
Patent Number:	8566299
Patent Number:	8533457
Patent Number:	8572249
Patent Number:	8590032
Patent Number:	8601550
Patent Number:	8613041
Patent Number:	8615796
Patent Number:	8639974
Patent Number:	8520508
Patent Number:	8522031
Application Number:	14095078
Application Number:	14154393
Application Number:	14075135
Application Number:	14088080
Application Number:	14088139

PATENT

<b>Property Type</b>	<b>Number</b>
Application Number:	14170490
Application Number:	13967202
Application Number:	13967205
Application Number:	13967207
Application Number:	13967208
Application Number:	13967210
Application Number:	13970550
Application Number:	13971122
Application Number:	13973859
Application Number:	13974740
Application Number:	14006850
Application Number:	14034314
Application Number:	14047329
Application Number:	14047399
Application Number:	14049142
Application Number:	14054590
Application Number:	14058215
Application Number:	14058789
Application Number:	14061695
Application Number:	14061988
Application Number:	14062215
Application Number:	14064597
Application Number:	14064751
Application Number:	14065076
Application Number:	14065825
Application Number:	14066484
Application Number:	14067874
Application Number:	14070057
Application Number:	14071146
Application Number:	14071192
Application Number:	14073094
Application Number:	14074940
Application Number:	14075151
Application Number:	14075165
Application Number:	14075295
Application Number:	14078775
Application Number:	14078972
Application Number:	14079308
Application Number:	14079346

**PATENT**

<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14080215
<b>Application Number:</b>	14081437
<b>Application Number:</b>	14081507
<b>Application Number:</b>	14081786
<b>Application Number:</b>	14081837
<b>Application Number:</b>	14082592
<b>Application Number:</b>	14083986
<b>Application Number:</b>	14086176
<b>Application Number:</b>	14086504
<b>Application Number:</b>	14087745
<b>Application Number:</b>	14087858
<b>Application Number:</b>	14088132
<b>Application Number:</b>	14089360
<b>Application Number:</b>	14089593
<b>Application Number:</b>	14092746
<b>Application Number:</b>	14093673
<b>Application Number:</b>	14096866
<b>Application Number:</b>	14096918
<b>Application Number:</b>	14097784
<b>Application Number:</b>	14098156
<b>Application Number:</b>	14099500
<b>Application Number:</b>	14099686
<b>Application Number:</b>	14099698
<b>Application Number:</b>	14099715
<b>Application Number:</b>	14100391
<b>Application Number:</b>	14101050
<b>Application Number:</b>	14101612
<b>Application Number:</b>	14102130
<b>Application Number:</b>	14104061
<b>Application Number:</b>	14104092
<b>Application Number:</b>	14105372
<b>Application Number:</b>	14105864
<b>Application Number:</b>	14107312
<b>Application Number:</b>	14107407
<b>Application Number:</b>	14107766
<b>Application Number:</b>	14107846
<b>Application Number:</b>	14108076
<b>Application Number:</b>	14109439
<b>Application Number:</b>	14132196

**PATENT**

<b>Property Type</b>	<b>Number</b>
Application Number:	14134699
Application Number:	14135079
Application Number:	14136690
Application Number:	14137637
Application Number:	14138912
Application Number:	14139386
Application Number:	14139670
Application Number:	14139700
Application Number:	14139739
Application Number:	14139765
Application Number:	14139783
Application Number:	14139793
Application Number:	14139802
Application Number:	14139828
Application Number:	14139833
Application Number:	14139835
Application Number:	14139839
Application Number:	14141200
Application Number:	14141700
Application Number:	14142170
Application Number:	14142215
Application Number:	14142263
Application Number:	14142296
Application Number:	14142362
Application Number:	14142402
Application Number:	14143846
Application Number:	14144751
Application Number:	14147250
Application Number:	14147833
Application Number:	14148248
Application Number:	14148856
Application Number:	14149229
Application Number:	14149366
Application Number:	14150095
Application Number:	14150447
Application Number:	14150537
Application Number:	14151610
Application Number:	14152487
Application Number:	14152812

**PATENT**

Property Type	Number
Application Number:	14154424
Application Number:	14154840
Application Number:	14154961
Application Number:	14156263
Application Number:	14156295
Application Number:	14156560
Application Number:	14159020
Application Number:	14159887
Application Number:	14160148
Application Number:	14160275
Application Number:	14161848
Application Number:	14162151
Application Number:	14162202
Application Number:	14163389
Application Number:	14164768
Application Number:	14165129
Application Number:	14166192
Application Number:	14166351
Application Number:	14166368
Application Number:	14166641
Application Number:	14167951
Application Number:	14167985
Application Number:	14169315
Application Number:	14169376
Application Number:	14169654
Application Number:	14170465
Application Number:	14170482
Application Number:	14170494
Application Number:	14170502
Application Number:	14170513
Application Number:	14171252
Application Number:	14171333
Application Number:	14171340
Application Number:	14172268
Application Number:	14172731
Application Number:	29479260
Application Number:	29479974
Application Number:	29481007
Application Number:	29481406

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Property Type	Number
Application Number:	61927939
Application Number:	14159593
Application Number:	14010314
Application Number:	14073822
Application Number:	14073823
Application Number:	14082397
Application Number:	14089427
Application Number:	14149658
Application Number:	14153218
Application Number:	14153259
Application Number:	14153607
Application Number:	14169103
Application Number:	14169130
Application Number:	14169136
Application Number:	14095783

**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.*

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**Address Line 4:** PALO ALTO, CALIFORNIA 94304

<b>NAME OF SUBMITTER:</b>	J. JASON MULL
<b>SIGNATURE:</b>	/J. Jason Mull/
<b>DATE SIGNED:</b>	05/01/2014

**Total Attachments: 17**

- source=Agreement - Dell Patent Security (Term Loan) - 3-21-2014#page1.tif
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**PATENT**

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SUPPLEMENTAL PATENT SECURITY AGREEMENT dated as of March 21, 2014 (this "Agreement"), among Compellent Technologies, Inc., a Delaware corporation, Dell Products L.P., a Texas limited partnership, Dell Software Inc., a Delaware corporation, Force10 Networks, Inc., a Delaware corporation, and SecureWorks, Inc., a Georgia corporation (each a "Grantor") and Bank of America, N.A., as Collateral Agent (in such capacity, the "Collateral Agent").

Reference is made to (a) the 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 "Borrower"), the Lenders party thereto and Bank of America, N.A., as Collateral Agent and (b) the Collateral Agreement dated as of October 29, 2013 (as amended, supplemented or otherwise modified from time to time, the "Collateral Agreement"), among the Company, the Borrower, the other grantors from time to time party thereto and the Collateral Agent. The Lenders and have agreed to extend credit to the Borrower subject to the terms and conditions set forth in the Credit Agreement. Each Grantor is an Affiliate of the Borrower 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 Collateral 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 Collateral Agent herein is granted in furtherance, and not in limitation, of the security interests granted to the Collateral Agent pursuant to the Collateral Agreement. Each Grantor hereby acknowledges and affirms that the rights and remedies of the Collateral 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.

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

COMPELLENT TECHNOLOGIES, INC.

By: 

Name:

Title:

[SIGNATURE PAGE TO SUPPLEMENT TO PATENT TERM LOAN SECURITY AGREEMENT]

PATENT  
REEL: 032809 FRAME: 0938

DELL PRODUCTS L.P.

By: 

Name:

Title:

[SIGNATURE PAGE TO SUPPLEMENT TO PATENT TERM LOAN SECURITY AGREEMENT]

DELL SOFTWARE INC.

By: 

Name:

Title:

[SIGNATURE PAGE TO SUPPLEMENT TO PATENT TERM LOAN SECURITY AGREEMENT]

PATENT  
REEL: 032809 FRAME: 0940

FORCE10 NETWORKS, INC.

By: 

Name:

Title:

[SIGNATURE PAGE TO SUPPLEMENT TO PATENT TERM LOAN SECURITY AGREEMENT]

PATENT  
REEL: 032809 FRAME: 0941

SECUREWORKS, INC.

By: 

Name:

Title:

[SIGNATURE PAGE TO SUPPLEMENT TO PATENT TERM LOAN SECURITY AGREEMENT]

**PATENT**  
**REEL: 032809 FRAME: 0942**

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

By: 

Name: **Henry Pennell**  
Title: **Vice President**

{SIGNATURE PAGE TO SUPPLEMENT TO PATENT TERM LOAN SECURITY AGREEMENT}

Schedule I

**GRANTED U.S. PATENTS**

<b>Patent #</b>	<b>Publication #</b>	<b>Title</b>	<b>Assignee</b>
8543859	12/722727	Host detection circuit powered from primary side of the alternating current adaptor for detecting changes to a power level pulse of an information handling system	Dell Products L.P.
8566299	13/312594	Method for managing lock resources in a distributed storage system	Dell Products L.P.
8533457	13/004812	Method and apparatus for providing secure streaming data transmission facilities using unreliable protocols	Dell Software Inc.
8572249	10/733808	Network appliance	Dell Software Inc.
8590032	11/251592	Rule-based routing to resources through a network	Dell Software Inc.
8601550	12/938330	Remote access to resources over a network	Dell Software Inc.
8613041	12/512891	Creating rules for routing resource access requests	Dell Software Inc.
8615796	12/512884	Managing resource allocations	Dell Software Inc.
8639974	13/721588	Method and system for virtual on-demand recovery	Dell Software Inc.
8520508	12/773085	Spanning tree ring protocol	Force10 Networks, Inc.
8522031	12/779989	Method & apparatus for establishing a trusted and secure relationship between two parties connected to a network	Force10 Networks, Inc.

## PENDING U.S. PATENTS

Application #	Filed Date	Title	Assignee
14/095078	12/3/2013	DATA STORAGE SPACE RECOVERY SYSTEM AND METHOD	Compellent Technologies
14/154393	1/14/2014	Page allocation and RAID parity stripe writes for small pages	Compellent Technologies
14/075135	11/8/2013	Context Analysis at an Information Handling System to Manage Authentication Cycles	Credant Technologies Inc.
14/088080	11/22/2013	MANAGING INFORMATION AND CONTENT SHARING IN A VIRTUAL COLLABORATION SESSION	Dell Products L.P.
14/088139	11/22/2013	MANIPULATING AUDIO AND/OR SPEECH IN A VIRTUAL COLLABORATION SESSION	Dell Products L.P.
14/170490	1/31/2014	EXTENSIBLE DATA MODEL AND SERVICE FOR INFRASTRUCTURE MANAGEMENT	Dell Products L.P.
13/967202	8/14/2013	QUERY INTERFACE TO POLICY SERVER	Dell Products L.P.
13/967205	8/14/2013	SECURE ELECTRONIC NETWORK DELIVERY	Dell Products L.P.
13/967207	8/14/2013	QUERY INTERFACE TO POLICY SERVER	Dell Products L.P.
13/967208	8/14/2013	QUERY INTERFACE TO POLICY SERVER	Dell Products L.P.
13/967210	8/14/2013	REAL-TIME NETWORK UPDATES FOR MALICIOUS CONTENT	Dell Products L.P.
13/970550	8/19/2013	METHOD AND APPARATUS FOR PROVIDING SECURE STREAMING DATA TRANSMISSION FACILITIES USING UNRELIABLE PROTOCOLS	Dell Products L.P.
13/971122	8/20/2013	Automatic On-Demand Creation of Custom SW App	Dell Products L.P.
13/973859	8/22/2013	AN EFFICIENT STRING SEARCH	Dell Products L.P.
13/974740	8/23/2013	High Speed Powered IO Interconnect	Dell Products L.P.
14/006850	10/30/2013	Backflow prevention mode- increase server fan speed to insure airflow is moving front to back through server	Dell Products L.P.
14/034314	9/23/2013	Fast Identification of Content	Dell Products L.P.
14/047329	10/7/2013	Dynamic Learning of VLANs based on LLDP TLV from Host/Servers	Dell Products L.P.
14/047399	10/7/2013	Method to determine optimal paths in iSCSI High Availability network	Dell Products L.P.
14/049142	10/8/2013	Re-submission of 101397 : Added the hierarchical Proxy gateway solution to 101397 which makes it a unique selling proposition of Proxy Gateway for VLT	Dell Products L.P.
14/054590	10/15/2013	A protocol allowing independent logical link state control of virtual Ethernet ports from physical link state	Dell Products L.P.
14/058215	10/19/2013	Network Appliance	Dell Products L.P.
14/058789	10/21/2013	System and Method for Pre-Boot Authentication of a Secure Client Hosted Virtualization in an Information Handling System	Dell Products L.P.



<u>Application #</u>	<u>Filed Date</u>	<u>Title</u>	<u>Assignee</u>
14/061695	10/23/2013	Improved Pathway Decision Forwarding for Rack Domains	Dell Products L.P.
14/061988	10/24/2013	NETWORK APPLIANCE	Dell Products L.P.
14/062215	10/24/2013	System and Method for Direct TCP/IP Communication over PCIe	Dell Products L.P.
14/064597	10/28/2013	Method and Apparatus to Perform Multiple Packet Payloads Analysis	Dell Products L.P.
14/064751	10/28/2013	Lamp and LED hybrid light engine for projectors	Dell Products L.P.
14/065076	10/28/2013	Automatic configuration of DCB operation on all the interfaces of an access switch [Auto DCB]	Dell Products L.P.
14/065825	10/29//2013	SAN Vulnerability Assessment Tool	Dell Products L.P.
14/066484	10/29//2013	Display power management method for dual display portable device	Dell Products L.P.
14/067874	10/30/2013	Rapid Node/Interconnect Failure Detection in FCoE Network using IPMI	Dell Products L.P.
14/070057	11/1/2013	Self Destroying LUN	Dell Products L.P.
14/071146	11/14/2013	Method and Apparatus to Perform Multiple Packet Payloads Analysis	Dell Products L.P.
14/071192	11/4/2013	FAST IDENTIFICATION OF CONTENT	Dell Products L.P.
14/073094	11/6/2013	Reversible Contra-Rotating Fan for Network Switches	Dell Products L.P.
14/074940	11/8/2013	System And Method For Secure Provisioning Of An Information Handling System.	Dell Products L.P.
14/075151	11/8/2013	Context Analysis at an Information Handling System to Manage Authentication Cycles	Dell Products L.P.
14/075165	11/8/2013	Context Analysis at an Information Handling System to Manage Authentication Cycles	Dell Products L.P.
14/075295	11/8/2013	Modular Datacenter: Ultra-High-Capacity Power Distribution Panel	Dell Products L.P.
14/078775	11/13/2013	Dynamic touch sensitivity and gesture adaptation in dual display system	Dell Products L.P.
14/078972	11/13/2013	METHODS AND SYSTEMS FOR ACCESSING AND CONTROLLING A REMOTE DESKTOP OF A REMOTE MACHINE IN REAL TIME BY A WEB BROWSER AT A CLIENT DEVICE VIA HTTP API UTILIZING A TRANSCODING SERVER	Dell Products L.P.
14/079308	11/14/2013	PACKET PROCESSING ON A MULTI-CORE PROCESSOR	Dell Products L.P.
14/079346	11/13/2013	Efficient Incremental Updates for SMR Drives in a RAID Configuration	Dell Products L.P.
14/080215	11/14/2013	Tool-Less Cable Management Attachment Bracket And Method Of Use	Dell Products L.P.
14/081437	11/15/2013	S M Sharing Storage Resources	Dell Products L.P.
14/081507	11/15/2013	Management Interface System	Dell Products L.P.
14/081786	11/15/2013	Method for simultaneous desktop streaming with concurrent hard disk image recovery	Dell Products L.P.

<u>Application #</u>	<u>Filed Date</u>	<u>Title</u>	<u>Assignee</u>
14/081837	11/15/2013	Mechanical Inline Port Toggle for Duplicating Keyholes for Keyed and Mutually Exclusive Expansion Modules in a Multiple Port Device	Dell Products L.P.
14/082592	11/18/2013	System controllable AC mains switcher for AC adapters - Resubmit of 19363 [PA]	Dell Products L.P.
14/083986	11/19/2013	Deployment And Updating Of Applications And Drivers On A Client Device Using An Extensible Markup Language (Xml) Configuration File	Dell Products L.P.
14/086176	11/21/2013	System and Method to perform an OS Boot using Service location protocol and launching OS using a dynamic update of network Boot order without a reboot	Dell Products L.P.
14/086504	11/21/2013	DEPLOYMENT OF A DRIVER OR AN APPLICATION ON A CLIENT DEVICE HAVING A WRITE-FILTER	Dell Products L.P.
14/087745	11/22/2013	Diagnostic Analysis Tool For Disk Storage Engineering and Technical Support	Dell Products L.P.
14/087858	11/22/2013	Information Handling System Housing Lid with Synchronized Motion Provided by Unequal Gears	Dell Products L.P.
14/088132	11/22/2013	Non Minimal Routing Algorithm using Loop free alternate paths	Dell Products L.P.
14/089360	11/25/2013	SYSTEM AND METHOD FOR AUTOMATICALLY GENERATING KEYWORDS	Dell Products L.P.
14/089593	11/25/2013	WIRELESS EXTENDER SECURE DISCOVERY AND PROVISIONING	Dell Products L.P.
14/092746	11/27/2013	System and Method for Auto-Failover and Version Matching of Bootloader in an Access Controller	Dell Products L.P.
14/093673	12/2/2013	MULTI-STAGE INFORMATION HANDLING RESOURCE RELEASE LATCH FOR USE IN A MODULAR INFORMATION HANDLING SYSTEM CHASSIS	Dell Products L.P.
14/096866	12/5/2013	DATA PATTERN ANALYSIS USING OPTIMIZED DETERMINISTIC FINITE AUTOMATON	Dell Products L.P.
14/096918	12/4/2013	MANAGING BEHAVIOR IN A VIRTUAL COLLABORATION SESSION	Dell Products L.P.
14/097784	12/5/2013	METHODS AND SYSTEMS FOR MONITORING AND MANAGEMENT IN A DISTRIBUTED ARCHITECTURE INFORMATION HANDLING SYSTEM CHASSIS	Dell Products L.P.
14/098156	12/5/2013	Active Optimization And Heat Indices For File Systems And Block Storage	Dell Products L.P.
14/099500	12/6/2013	Pro-active MPIO based rate limiting to avoid iSCSI network congestion/ incast for clustered storage systems	Dell Products L.P.
14/099686	12/6/2013	Method and Apparatus for Connection Context Aware Radio Communication Management with Predictive Mobile Path	Dell Products L.P.
14/099698	12/6/2013	Method and Apparatus for Predicting Mobile Device Wireless Link Quality of Service Requirements Along a Predicted Path	Dell Products L.P.

<u>Application #</u>	<u>Filed Date</u>	<u>Title</u>	<u>Assignee</u>
14/099715	12/6/2013	Method and Apparatus for Determining Optimized Wireless Link Selection for a Mobile Device Along a Predicted Path	Dell Products L.P.
14/100391	12/9/2013	METHODS AND SYSTEMS FOR NETWORK SWITCH CONFIGURATION FOR A MODULAR COMPONENT CARRYING ONE OR MORE INFORMATION HANDLING SYSTEMS	Dell Products L.P.
14/101050	12/9/2013	Extending System Uptime While Running on Back-up	Dell Products L.P.
14/101612	12/10/2013	System and Method for Positioning an Application Window Based on Usage Context for Dual Screen Display Device	Dell Products L.P.
14/102130	12/10/2013	Managing Trust Relationships	Dell Products L.P.
14/104061	12/12/2013	METHODS AND SYSTEMS FOR ASSOCIATING PERIPHERAL INFORMATION HANDLING RESOURCES TO COMPUTE NODES IN A MODULAR INFORMATION SYSTEM CHASSIS	Dell Products L.P.
14/104092	12/12/2013	MTEHODS AND SYSTEMS FOR DEPLOYING NETWORK CONFIGURATION INFORMATION FOR MULTIPLE INFORMATION HANDLING SYSTEMS	Dell Products L.P.
14/105372	12/13/2013	System and Method for Handling Software Activation in Entitlement	Dell Products L.P.
14/105864	12/13/2013	Blade Server Chassis Bay Divider	Dell Products L.P.
14/107312	12/16/2013	Mechanism to Boot Multiple Hosts from a Shared PCIe Device	Dell Products L.P.
14/107407	12/16/2013	DUAL AXIAL CABLE	Dell Products L.P.
14/107766	12/16/2013	Presentation Interface in a Virtual Collaboration Session	Dell Products L.P.
14/107846	12/16/2013	Top Accessible Disk Drive Carrier for Horizontally Mounted Hard Drive	Dell Products L.P.
14/108076	12/16/2013	System And Method For Automated Network Configuration	Dell Products L.P.
14/109439	12/17/2013	SYSTEMS AND METHODS FOR SENSING AND IDENTIFYING INFORMATION HANDLING RESOURCES IN A DISAGGREGATED SERVER	Dell Products L.P.
14/132196	12/18/2013	SYSTEMS AND METHODS FOR THERMAL CONTROL OF A STORAGE ENCLOSURE	Dell Products L.P.
14/134699	12/19/2013	Method to maintain tech support chat continuity across system restarts and multiple OSs	Dell Products L.P.
14/135079	12/19/2013	Controlled Introduction of Powering Down Networks/Devices	Dell Products L.P.
14/136690	12/20/2013	VISUAL AUDIO QUALITY CUES AND CONTEXT AWARENESS IN A VIRTUAL COLLABORATION SESSION	Dell Products L.P.
14/137637	12/20/2013	Separation of the Control Packet and Data Packet readiness state in LACP	Dell Products L.P.

<u>Application #</u>	<u>Filed Date</u>	<u>Title</u>	<u>Assignee</u>
14/138912	12/23/2013	IT Sled With One-Third Width Compute and Storage Nodes For Increased Processing and Storage Capacity Within A Modular Rack-based Information Handling System	Dell Products L.P.
14/139386	12/23/2013	Modular Datacenter Server Rack Retention	Dell Products L.P.
14/139670	12/23/2013	Diagnostics packet identification for IPv4	Dell Products L.P.
14/139700	12/23/2013	Enhanced Fan Design and Configuration and Control	Dell Products L.P.
14/139739	12/23/2013	Global Throttling of Computer Nodes based on rack level thermal monitoring -- Using Common Ethernet Cabling and Switch for rack-level management operations	Dell Products L.P.
14/139765	12/23/2013	Configurable and Modular Rack-level Power Distribution System and Power Management – “Predictive Power Capping Based on Capping Hysteresis”	Dell Products L.P.
14/139783	12/23/2013	Method to provide a flexible and scalable power and system management infrastructure for a data management system	Dell Products L.P.
14/139793	12/23/2013	Modular Application of Security Protection Screens with Individual Locking Mechanisms for Use in Expandable IT Rack	Dell Products L.P.
14/139802	12/23/2013	MODULAR APPLICATION OF PERIPHERAL PANELS AS EXPANSION SLEEVES AND CABLE MANAGEMENT COMPONENTS WITHIN A RACK-BASED INFORMATION HANDLING SYSTEM	Dell Products L.P.
14/139828	12/23/2013	Modular and Scalable Bus Bar Supporting Hot Plug of Block Assembly Within A Modular, Scalable and/or Expandable Rack-based Information Handling System	Dell Products L.P.
14/139833	12/23/2013	SINGLE UNIT HEIGHT HDD SLED SUPPORTING HOT SWAP OF INDIVIDUAL HDDS WITHIN RACK-BASED INFORMATION HANDLING SYSTEM	Dell Products L.P.
14/139835	12/23/2013	Common infrastructure of power and cooling to support modular and flexible IT system of different dimension	Dell Products L.P.
14/139839	12/23/2013	The ability to add multiple servers or IR equipment on top of an existing IT apparatus – or use as a stand- alone, modularly-expandable mini-rack system	Dell Products L.P.
14/141200	12/26/2013	Power efficient method to wake an active pen prior to first contact with the screen	Dell Products L.P.
14/141700	12/27/2013	Pluggable protocol conversion transceiver	Dell Products L.P.
14/142170	12/27/2013	N-node Virtual Link Trunking (VLT) Systems and Methods	Dell Products L.P.
14/142215	12/27/2013	N-node Virtual Link Trunking (VLT) Systems Control Plane	Dell Products L.P.
14/142263	12/27/2013	N-node Virtual Link Trunking (VLT) Systems Data Plane	Dell Products L.P.

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14/142296	12/27/2013	N-node Virtual Link Trunking (VLT) Systems Management Plane	Dell Products L.P.
14/142362	12/27/2013	N-node Virtual Link Trunking (VLT) Systems Fault Management	Dell Products L.P.
14/142402	12/27/2013	Routing in Spine-Leaf Networking Systems	Dell Products L.P.
14/143846	12/30/2013	Modular, Scalable, expandable IT Rack Configured for Concurrent Installation of different types of IT gear/sleds having Different height, width, and depth dimensions, and using modularly configured fans and power configurations	Dell Products L.P.
14/144751	12/31/2013	A method and system for Caching Recently Used Data Files in hybrid drive or other available persistent storage	Dell Products L.P.
14/147250	1/3/2014	Method of Modular Airflow Request Algorithm to optimize Airflow Traffic between iDRAC-CMC	Dell Products L.P.
14/147833	1/6/2014	Enabling a Function Within a Module Configured to be Used Within an IHS	Dell Products L.P.
14/148248	1/6/2014	Performance Lighting and Control Method	Dell Products L.P.
14/148856	1/7/2014	System and method for improved manufacturability and reliability of BGA connections	Dell Products L.P.
14/149229	1/7/2014	Memory Compatbility System And Method	Dell Products L.P.
14/149366	1/7/2014	System and Method for Managing UEFI Secure Boot Certificates	Dell Products L.P.
14/150095	1/8/2014	Method for System Memory Short Detection	Dell Products L.P.
14/150447	1/8/2014	Portfolio Cover for Portable Information handling Systems	Dell Products L.P.
14/150537	1/8/2014	VIRTUAL PRIVATE NETWORK DEAD PEER DETECTION	Dell Products L.P.
14/151610	1/9/2014	Multicast Optimization-IGMP Snooping-On-Demand	Dell Products L.P.
14/152487	1/10/2014	Optimized Remediation Policy in a Virtualized Environment	Dell Products L.P.
14/152812	1/16/2014	SIGNATURE GENERATION USING MESSAGE SUMMARIES	Dell Products L.P.
14/154424	1/14/2014	Method of forming seamless RF friendly antenna window in condcutive composite fiber	Dell Products L.P.
14/154840	1/14/2014	Method for allowing customer to fine-tune fan response in a computer (information handling system) to meet their specific hardware cooling requirements.	Dell Products L.P.
14/154961	1/14/2014	SYNCHRONIZED STORAGE SYSTEM OPERATION	Dell Products L.P.
14/156263	1/15/2014	Optimized Reconciliation Active/Standby Scheme	Dell Products L.P.
14/156295	1/15/2014	Seamless Transition among Forwarding Schemes	Dell Products L.P.
14/156560	1/16/2014	System And Method For Using Resources Of A Computer System In Conjunction With A	Dell Products L.P.

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14/159020	1/20/2014	DIGITAL MEDIA CONTENT LOCATION AND PURCHASING SYSTEM	Dell Products L.P.
14/159887	1/21/2014	Convertible information Handling System Input Device Surface and Support	Dell Products L.P.
14/160148	1/21/2014	User-Personalized Wake Policy Based on Learned User behavior	Dell Products L.P.
14/160275	1/21/2014	Method and Apparatus for Context Aware Management of Location Optimization of Virtual Machines for Mobility and Real-time Enterprise Applications	Dell Products L.P.
14/161848	1/23/2014	System and Method for Motion Gesture Access to an Application and Limited Resources of an Information Handling System	Dell Products L.P.
14/162151	1/23/2014	Method and Architecture for Assigning Addresses to Information Handling Systems	Dell Products L.P.
14/162202	1/23/2014	Virtual Machine Asynchronous Patch Management	Dell Products L.P.
14/163389	1/24/2014	Structure to Dampen Barrel Resonance of Unused Portion of Printed Circuit Board Via	Dell Products L.P.
14/164768	1/27/2014	DELIVERY OF MULTIPLE THIRD-PARTY SERVICES TO NETWORKED DEVICES	Dell Products L.P.
14/165129	1/27/2014	System and Method for Component Authentication of a Secure Client Hosted Virtualization in an Information Handling System	Dell Products L.P.
14/166192	1/28/2014	DYNAMIC CONSTRAINTS FOR CONTENT RIGHTS	Dell Products L.P.
14/166351	1/28/2014	Cohesive cooling solution to enable load sharing	Dell Products L.P.
14/166368	1/28/2014	Device Management of non-networked devices through automated crowd sourcing	Dell Products L.P.
14/166641	1/28/2014	NET-BASED EMAIL FILTERING	Dell Products L.P.
14/167951	1/31/2014	DECLARATIVE AND PLUGGABLE BUSINESS LOGIC FOR SYSTEMS MANAGEMENT	Dell Products L.P.
14/167985	1/29//2014	MOBILE DEVICE IDENTITY AND ACCESS CONTROL POLICIES	Dell Products L.P.
14/169315	1/31/2014	SYSTEMS AND METHODS FOR RESOLUTION OF UNIFORM RESOURCE LOCATORS IN A LOCAL NETWORK	Dell Products L.P.
14/169376	1/31/2014	Method to incorporate carbon fiber parts into notebook designs, while minimizing antenna windows and utilizing a unique interlock strategy.	Dell Products L.P.
14/169654	1/31/2014	Hard Drive carrier that locks in a shipping position	Dell Products L.P.
14/170465	1/31/2014	TEMPLE DERIVATION FOR CONFIGURATION OBJECT MANAGEMENT	Dell Products L.P.
14/170482	1/31/2014	AGILE FRAMEWORK FOR VERTICAL APPLICATION DEVELOPMENT AND DELIVERY	Dell Products L.P.
14/170494	1/31/2014	EXPANDABLE AD HOC DOMAIN SPECIFIC QUERY FOR SYSTEM MANAGEMENT	Dell Products L.P.

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14/170502	1/31/2014	UNDO CONFIGURATION TRANSACTIONAL COMPENSATION	Dell Products L.P.
14/170513	1/31/2014	MODEL-BASED DEVELOPMENT	Dell Products L.P.
14/171252	2/3/2014	SYSTEMS AND METHODS FOR REPORTING AIR MOVER EVENTS TO AN OPERATING SYSTEM DURING OPERATING SYSTEM RUNTIME	Dell Products L.P.
14/171333	2/3/2014	Method of High Fidelity Wireless Display Power Management (WILMA)	Dell Products L.P.
14/171340	2/3/2014	System and Method for Automatic Detection and Switching Between USB Host and Device Rolls on a Type-A Connector	Dell Products L.P.
14/172268	2/4/2014	Continuous Memory Tamper Detection Through System Management Mode Integrity Verification	Dell Products L.P.
14/172731	2/6/2014	SYSTEM AND METHOD FOR ADAPTIVE TEXT RECOMMENDATION	Dell Products L.P.
29/479260	1/14/2014	Storage System	Dell Products L.P.
29/479974	1/22/2014	Storage System	Dell Products L.P.
29/481007	1/31/2014	Storage Device Bezel	Dell Products L.P.
29/481406	2/5/2014	Information Handling System Housing	Dell Products L.P.
61/927939	1/15/2014	Method to capture the games executable on indirect launching for successful set and restore of environment settings	Dell Products L.P.
14/159593	1/21/2014	SYSTEM AND METHOD FOR DYNAMIC DATA COLLECTION	Dell Software Inc.
14/010314	8/26/2013	SYSTEM FOR CATEGORIZING DATABASE STATEMENTS FOR PERFORMANCE TUNING	Dell Software Inc.
14/073822	11/6/2013	System and Method for Accessing Dimensional Databases	Dell Software Inc.
14/073823	11/6/2013	System and Method for Decentralized Authentication of Supplicant Devices	Dell Software Inc.
14/082397	11/18/2013	SYSTEMS AND METHODS FOR MANAGING USER PERMISSIONS	Dell Software Inc.
14/089427	11/25/2013	SYSTEM AND METHOD FOR DATA LOSS PREVENTION ACROSS HETEROGENEOUS COMMUNICATIONS PLATFORMS	Dell Software Inc.
14/149658	1/7/2014	SELF-SERVICE SYSTEMS AND METHODS FOR GRANTING ACCESS TO RESOURCES	Dell Software Inc.
14/153218	1/13/2014	SYSTEM AND METHOD FOR PROACTIVE SCALING	Dell Software Inc.
14/153259	1/16/2014	Linking of Parent-Child Data Records in a Legacy Software Modernization System	Dell Software Inc.
14/153607	1/13/2014	SYSTEMS AND METHODS FOR INTERCEPTING PROCESS CREATION EVENTS	Dell Software Inc.
14/169103	1/30/2014	Enabling users to quickly log into a Remote Desktop computer anonymously without using a pool of previously created anonymous user accounts.	Dell Software Inc.
14/169130	1/30/2014	Managing Multiple Forests and non-MSFT Forest Equivalents with LDAP API vs ADSI	Dell Software Inc.

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14/169136	1/30/2014	Setting up Multiple Forests and non-MSFT Forest Equivalents with LDAP API vs ADSI	Dell Software Inc.
14/095783	12/3/2013	System and Method for Tamper Resistant Reliable Logging of Network Traffic	Secureworks, Inc.