

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5706623

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
LENOVO ENTERPRISE SOLUTIONS (SINGAPORE) PTE LTD.		07/01/2017
RECEIVING PARTY DATA		
Name:	LENOVO GLOBAL TECHNOLOGIES INTERNATIONAL LTD	
Street Address:	23/F, LINCOLN HOUSE, 979 KING'S ROAD	
City:	QUARRY BAY	
State/Country:	HONG KONG	
PROPERTY NUMBERS Total: 28		
Property Type	Number	
Patent Number:	9619145	
Patent Number:	9678638	
Patent Number:	9671956	
Patent Number:	9640888	
Patent Number:	9647881	
Patent Number:	9631880	
Patent Number:	9646947	
Patent Number:	9652245	
Patent Number:	9626319	
Patent Number:	9635009	
Patent Number:	9678914	
Patent Number:	9679085	
Patent Number:	9639700	
Patent Number:	9645905	
Patent Number:	9690651	
Patent Number:	9618539	
Patent Number:	9639269	
Patent Number:	9629263	
Patent Number:	9648481	
Patent Number:	9655275	
Patent Number:	9635638	

PATENT

Property Type	Number
Patent Number:	9684463
Patent Number:	9632965
Patent Number:	9641380
Patent Number:	9614765
Patent Number:	9641249
Patent Number:	9626844
Patent Number:	9684517

CORRESPONDENCE DATA

Fax Number:
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: 7735108825
Email: beckywil@motorola.com
Correspondent Name: BECKY A. WILLIAMS
Address Line 1: 222 W. MERCHANDISE MART PLAZA
Address Line 2: SUITE 1800
Address Line 4: CHICAGO, ILLINOIS 60654

NAME OF SUBMITTER:	BECKY A. WILLIAMS
SIGNATURE:	/baw/
DATE SIGNED:	09/06/2019

Total Attachments: 5
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ASSIGNMENT OF PATENT RIGHTS

WHEREAS, Lenovo Enterprise Solutions (Singapore) Pte Ltd. a limited liability company organized under the laws of the Republic of Singapore, with its principal place of business at 151 Lorong Chuan, #02-01 New Tech Park, Singapore, 55674 (ASSIGNOR) is the owner of certain rights, title and interest in and to the patents, patent applications and invention disclosures set forth in *Exhibit A* hereto;

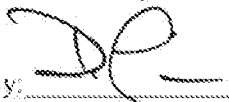
WHEREAS, it is the intention of ASSIGNOR and Lenovo Global Technologies International Ltd, a limited liability company organized under the laws of Hong Kong having its principal place of business at 23/F, Lincoln House, 979 King's Road, Quarry Bay, Hong Kong (hereinafter ASSIGNEE), that ASSIGNEE own all of ASSIGNOR'S right, title and interest in and to the patents, patent applications and invention disclosures; and

WHEREAS, ASSIGNOR and ASSIGNEE entered into a Periodic Intellectual Property Sale and Transfer Agreement effective January 1, 2017 (collectively the "AGREEMENTS") in which ASSIGNOR assigned intellectual property rights to ASSIGNEE and agreed to periodically assign additional intellectual property rights to ASSIGNEE.

NOW, THEREFORE, in consideration of the mutual promises contained in the AGREEMENTS and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, pursuant to this Assignment of Patent Rights, and subject to the AGREEMENTS, ASSIGNOR hereby sells, assigns, transfers, and conveys to ASSIGNEE, its permitted successors and assigns, all of ASSIGNOR'S right, title, and interest in and to the patents, patent applications, and invention disclosures being made for Letters Patent set forth on *Exhibit A*, and (a) all foreign and U.S. counterpart patents and patent applications claiming priority from the patents and the applications Letters Patents listed in *Exhibit A*, and (b) all continuations, continuations-in-part, divisionals, reissues, renewals, reexaminations, substitutions, and extensions thereof (including equivalents to any of the foregoing in non-U.S. jurisdictions) that may be granted or issue from and claim priority to the foregoing (hereinafter collectively referred to as the "Sold Patents"), and including the right to own and prosecute in ASSIGNEE's own name any reexaminations, reissues, interferences, and all claims and causes of action now in existence or arising in the future resulting from past, present, and future infringement of any of the Sold Patents, including, without limitation, the right to sue and recover for past, present, and future infringement of any of the Sold Patents. ASSIGNOR authorizes and requests the Director of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patents to ASSIGNEE, as ASSIGNEE of the entire right, title, and interest therein or otherwise as ASSIGNEE may direct.

IN TESTIMONY WHEREOF, ASSIGNOR and ASSIGNEE have hereunto executed this Assignment effective July 1, 2017, by their duly authorized representatives.

Lenovo Enterprise Solutions (Singapore) Pte Ltd.

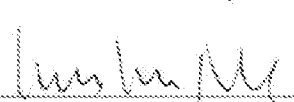
By: 

Name: Damian Glendinning

Title: Director

Place: Singapore

Lenovo Global Technologies International Ltd.

By: 

Name: Wong Wai Ming

Title: Director

Place: Beijing

EXHIBIT A

Case Reference	Country	Grant	Grant Number	Internal Title
XAUS92013 0086-US- CNT	UNITED STATES	11 Apr 2017	US9619145	METHOD RELATING TO CONFIGURABLE STORAGE DEVICE AND ADAPTIVE STORAGE DEVICE ARRAY
XAUS92013 0181-US-NP	UNITED STATES	13 Jun 2017	US9678638	GLIDING GESTURE OPERATIONS
XAUS92014 0102-US-NP	UNITED STATES	06 Jun 2017	US9671956	PRESENTING SEARCH TERM SUGGESTIONS ON GRAPHICAL USER INTERFACES
XAUS92014 0318-US-NP	UNITED STATES	02 May 2017	US9640888	Preventing Corrosion Of An Electrical Connector Invention Disclosure No. AUS820140270
XCN920130 124-US-NP	UNITED STATES	09 May 2017	US9647881	MANAGING A NETWORK CONNECTION OF A SWITCH
XPOU92012 0081-US-NP	UNITED STATES	25 Apr 2017	US9631880	PROCESS FOR OPTIMIZING A HEAT EXCHANGER CONFIGURATION
XRPS920090 107-US-NP	UNITED STATES	09 May 2017	US9646947	AN INTEGRATED CIRCUIT WITH INDUCTIVE BOND WIRES
XRPS920120 038-US-NP	UNITED STATES	16 May 2017	US9652245	BRANCH PREDICTION FOR INDIRECT JUMPS
XRPS920130 057-US-NP	UNITED STATES	18 Apr 2017	US9626319	ALLOCATING LANES IN A PERIPHERAL CONNECT INTERFACE EXPRESS (PCIe) BUS
XRPS920130 118-US-CNT	UNITED STATES	25 Apr 2017	US9635009	DYNAMIC ACTIVATION OF SERVICE INDICATORS BASED UPON SERVICE PERSONNEL PROXIMITY
XRPS920130 138-US-NP	UNITED STATES	13 Jun 2017	US9678914	HOT REMOVING AN I/O MODULE WITH MULTIPLE HOT PLUG SLOTS
XRPS920130 145-US-NP	UNITED STATES	13 Jun 2017	US9679085	PRINTING A THREE DIMENSIONAL OBJECT ABOUT A PREFORMED STRUCTURE

XRPS920140 068-US-NP	UNITED STATES	02 May 2017	US9639700	Method of managing secure boot driver impact when keys are added or removed Invention Disclosure No. RPS820140098
XRPS920150 006-US-NP	UNITED STATES	09 May 2017	US9645905	MEMORY TYPE DESIGNATION AND/OR VERIFICATION SYSTEM Invention Disclosure RPS820140170
XRPS920150 053-US-NP	UNITED STATES	27 Jun 2017	US9690651	CONTROLLING A REDUNDANT ARRAY OF INDEPENDENT DISKS (RAID) THAT INCLUDES A READ ONLY FLASH DATA STORAGE DEVICE Invention Disclosure No. RPS820140057
XRPS920150 055-US-NP	UNITED STATES	11 Apr 2017	US9618539	SENSING CURRENT OF A DC-DC CONVERTER Invention Disclosure No. RPS820140085
XRPS920150 076-US-NP	UNITED STATES	02 May 2017	US9639269	COMPUTING DEVICE-SPECIFIC MEMORY MODULE
XRPS920150 083-US-NP	UNITED STATES	18 Apr 2017	US9629263	APPARATUS AND SYSTEM FOR MULTIFUNCTION CAMMING SUPPORT SHELF Invention Disclosure No. TUC820140065
XRPS920150 133-US-NP	UNITED STATES	09 May 2017	US9648481	Calling A Response Provider Based On Detection Of An Emergency Situation
XRPS920150 139-US-NP	UNITED STATES	16 May 2017	9655275	RACK ASSEMBLIES FOR SERVER CARRYING AND PIVOTING
XRPS920150 141-US-NP	UNITED STATES	25 Apr 2017	US9635638	RECOMMENDING NOTIFICATION SOUNDS THAT PROMOTE USER ACKNOWLEDGMENT TO NOTIFICATIONS
XRPS920150 183-US-NP	UNITED STATES	20 Jun 2017	US9684463	PREDICTIVE BLOCK ALLOCATION IN A FLASH DEVICE
XSJO920120 064-US-CNT	UNITED STATES	25 Apr 2017	US9632965	Cached phy register data access
XSJO920120 130-US-CNT	UNITED STATES	02 May 2017	US9641380	SPANNING TREE PROTOCOL (STP) IMPLEMENTATION ON AN EVENT DRIVEN VIRTUAL LINK

				AGGREGATION (VLAG) SYSTEM
XSJO920140 061-US-NP	UNITED STATES	04 Apr 2017	US9614765	QUANTIZED CONGESTION NOTIFICATION (QCN) PROXY FUNCTION IN DATA CENTER BRIDGING CAPABILITIES EXCHANGE (DCBX) PROTOCOL
XSJO920140 070-US-NP	UNITED STATES	02 May 2017	US9641249	Method of supporting Converged Traffic (FCoE) on SDN networks Invention Disclosure No. SJO820140029
XTUC92014 0103-US-NP	UNITED STATES	18 Apr 2017	US9626844	SERVICE INDICATORS WITH MINIMAL LIGHT SOURCES Disclosure No TUC820140043
XTW920130 027-US-NP	UNITED STATES	20 Jun 2017	US9684517	System monitoring and debugging in a multi-core processor system
XAUS92012 0256-CN-NP	China	13 Jun 2017	2013104191 060	MODULAR BATTERY COVER
XPOU92010 0085-CN-NP	China	17 May 2017	2013800069 62.1	CONVERGED ENHANCED ETHERNET NETWORK
XROC92012 0070-CN-NP	China	16 Jun 2017	2013104168 73.6	HORIZONTALLY AND VERTICALLY ALIGNED GRAPHITE NANOFIBERS THERMAL INTERFACE MATERIAL FOR USE IN CHIP STACKS
XRPS920120 013-CN-NP	China	12 Apr 2017	2013100929 91.6	SIMULATED NETWORK BOOT ENVIRONMENT FOR BOOTSTRAP REDIRECTION
XRPS920120 121-CN-NP	China	31 May 2017	2013106320 56.4	DETERMINING THE CONFIGURATION OF A POWER DISTRIBUTION SYTEM
XPOU92009 0021-EP- EPT	International Procedure	21 Jun 2017	2441317	LIQUID-COOLED COOLING APPARATUS, ELECTRONICS RACK AND METHODS OF FABRICATION THEREOF
XRPS920080 257-TW-NP	Taiwan	21 Jun 2017	1588750	POWER MANAGEMENT IN A VIRTUAL MACHINE FARM AT THE LOCAL VIRTUAL MACHINE PLATFORM LEVEL BY A PLATFORM HYPERVISOR EXTENDED WITH FARM

				MANAGEMENT SERVER FUNCTIONS
XTW920130 016-TW-NP	Taiwan	21 Jun 2017	1588751	COMPUTER HOST WITH A BASEBOARD MANAGEMENT CONTROLLER TO MANAGE VIRTUAL MACHINES AND METHOD THEREOF
XTW920140 026-TW-NP	Taiwan	21 May 2017	1584714	Low profile tool-less latch design for retention of PCI card Invention Disclosure No. TW820140020
XROC92008 0400-GB- PCT	United Kingdom	19 Apr 2017	2505388	SYSTEM AND METHOD FOR RESPONDING TO ERROR DETECTION