PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT5606861

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LENOVO (SINGAPORE) PTE. LTD.	07/01/2015

RECEIVING PARTY DATA

Name:	LENOVO PC INTERNATIONAL
Street Address:	23/F, LINCOLN HOUSE, 979 KING'S ROAD
City:	QUARRY BAY
State/Country:	HONG KONG

PROPERTY NUMBERS Total: 29

Property Type	Number
Patent Number:	9009158
Patent Number:	9021243
Patent Number:	9025327
Patent Number:	9026924
Patent Number:	9071524
Patent Number:	9024975
Patent Number:	9026824
Patent Number:	9063816
Patent Number:	9015078
Patent Number:	9052760
Patent Number:	9047041
Patent Number:	9058229
Patent Number:	9002925
Patent Number:	9013440
Patent Number:	9052877
Patent Number:	9003175
Patent Number:	9071067
Patent Number:	9021121
Patent Number:	9007297
Patent Number:	9021383
Patent Number:	9024958

Property Type	Number
Patent Number:	9020645
Patent Number:	9019088
Patent Number:	9019218
Patent Number:	9001061
Patent Number:	9070924
Patent Number:	9055543
Patent Number:	9042827
Patent Number:	9052917

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.

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NAME OF SUBMITTER:	BECKY A. WILLIAMS
SIGNATURE:	/baw/
DATE SIGNED:	07/08/2019

Total Attachments: 5
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ASSIGNMENT OF PATENT RIGHTS

WHEREAS, Lenovo (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 PC International, 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 an Intellectual Property Sale and Transfer Agreement effective April 1, 2013 and a Periodic Intellectual Property Sale and Transfer Agreement effective April 1, 2013 (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, 2015, by their duly authorized representatives.

Lenovo (Singapore) Pte Ltd.

By: _____

Name: Damian Glendinning

Title: Director

Place: Singapore

Lenovo PC International Ltd.

By: _____

Name: Wong Wai Ming

Title: Director

Place: Beijing

EXHIBIT A

Case Reference	Country	Date	Patent Number	Title
JP920090034-US-NP	United States Of America	14 Apr 2015	9009158	Digital Deja-vu
JP920110026-US-NP	United States Of America	28 Apr 2015	9021243	Memory Management during the OS Boot Time === Method for Increasing free Memory amount of main memory and computer therefore.
JP920120008-US-NP	United States Of America	05 May 2015	9025327	KBD folio stand for movie mode
JP920120029-US-NP	United States Of America	05 May 2015	9026924	Method to Emulate Movement of Windows Between Non-contiguous Displays
RPS920080018-US-NP	United States Of America	30 Jun 2015	9071524	METHOD TO DISTRIBUTE NETWORK CAPACITY ON DISKLESS CLIENT
RPS920080042-US-NP	United States Of America	05 May 2015	9024975	Repurposed Screen Real Estate for Enhanced Tablet Function
RPS920080071-US-NP	United States Of America	05 May 2015	9026824	[PtMng] Establishing Power Save Mode In Hypervisor System
RPS920090050-US-NP	United States Of America	23 Jun 2015	9063816	*** MERGE 820090252 AND 820090243 ** Use NRE vendor log to boot and update client
RPS920100005-US-NP	United States Of America	21 Apr 2015	9015078	AUDIT TRAILS FOR EPAYMENT
RPS920100041-US-NP	United States Of America	09 Jun 2015	9052760	Multiple slates into single slate screen
RPS920100041-US-NP[2]	United States Of	02 Jun 2015	9047041	Multiple slates into single slate screen

	America			
RPS920100051-US-NP	United States Of America	16 Jun 2015	9058229	Stateless state with intermittent cloud connect
RPS920100057-US-NP	United States Of America	07 Apr 2015	9002925	[PtMng] U1 feature #1 - System and method for managing system state in a a dual platform system CHINA INVENTORS WHICH NEED TO BE ADDED: Wang Sheng, Li Bin
RPS920100065-US-NP	United States Of America	21 Apr 2015	9013440	Improve ink continuity on a slate or tablet PC = Ink Control on Tablet Devices
RPS920100072-US-NP	United States Of America	09 Jun 2015	9052877	[PtMng] ThinkServer Refresh 2010 and HDD tray - Feature #3. Flush Face Server Units
RPS920110011-US-NP	United States Of America	07 Apr 2015	9003175	[PtMng] RapidBoot Extreme (T420, E420, X1) - System and Method to Accelerate Boot Performance - John Mese (original submitter)
RPS920110012-US-NP	United States Of America	30 Jun 2015	9071067	Method to enable quick charging of batteries == Fast Bettery Charging System and Method
RPS920110027-US-NP	United States Of America	28 Apr 2015	9021121	WiFi Direct lower bandwidth in heavy traffic
RPS920110040-US-NP	United States Of America	14 Apr 2015	9007297	[PtMng] eInk #2 (from Tier1 '243) Unique embodiments of a touchable, reflective display control module (orig. draft by Aaron S.)
RPS920110060-US-NP	United States Of America	28 Apr 2015	9021383	[PtMng] SimpleTap 3.0 - Browsing experience that switches between mobile and regular web sites (orig. submitted by Vanblon) == Browsing between mobile and non-mobile web sites
RPS920110062-US-NP	United States Of	05 May 2015	9024958	Buffering mechanism for camera-based gesturing ==BUFFERING MECHANISM

	America			FOR CAMERA-BASED GESTURING
RPS920110072-US-NP	United States Of America	28 Apr 2015	9020645	[PtMng] Thinkstation '30 #4 - Combined Fan Design (orig. submission by Makley) = Combined Control Lines for Device Cooling fans.
RPS920120001-US-NP	United States Of America	28 Apr 2015	9019088	Frequency modulation of haptic feedback == Modulation of Haptic Feedback
RPS920120007-US-NP	United States Of America	28 Apr 2015	9019218	Virtual TouchPad Fence and Related Gestures = Establishing an Input Region for Secsor Input.
RPS920120023-US-NP	United States Of America	07 Apr 2015	9001061	Visible method of cut and paste across long distances on small screens == Object Movement on Small Display Screens
RPS920120035-US-NP	United States Of America	30 Jun 2015	9070924	Fail safe design concepts for pouch based packs == Battery Cover Release.
RPS920120038-US-NP	United States Of America	09 Jun 2015	9055543	Wake on dock == Reduced Power Wireless Wake on Connection.
RPS920120039-US-NP	United States Of America	26 May 2015	9042827	Method for controlling data usage based on user proximity == Modifying a Function based on User Proximity
RPS920120041-US-NP	United States Of America	09 Jun 2015	9052917	Recreation of Client Image in the Cloud == Data Storage for Remote Environment.
JP920120026-JP-NP	Japan	26 Jun 2015	5767612	Haptic Touch Pad with Amplifying Plate
JP920120030-JP-NP	Japan	26 Jun 2015	5767613	Fan speed control method in LCD opne-closed condition by using G-sensor.
JP920120038-JP-NP	Japan	19 Jun 2015	5763605	Audio Feedback for TouchPad
JP920120044-JP-NP	Japan	12 Jun 2015	5759658	2-Stage Finger and Key Press Detection for Electrostatic Capacitive Input Devices

JP920120052-JP-NP	Japan	19 Jun 2015	5764114	BIOS HDD control during HDD stand by mode
JP920120055-JP-NP	Japan	19 Jun 2015	5764150	Adaptive Sleep Idle Timer by battery idle detection
JP920120063-JP-NP	Japan	26 Jun 2015	5767657	A Method of NAND Cache Tamper Protection
JP920130001-JP-NP	Japan	22 May 2015	5750127	Slim Track point mechanism
JP920130002-JP-NP	Japan	22 May 2015	5750128	Slidable frame keyboard
JP920130011-JP-NP	Japan	05 Jun 2015	5756144	A Method for maintenance and putting multiple OSs resident in memory
JP920130013-JP-NP	Japan	01 May 2015	5738927	Rising Rubber foot on C-cover for Yoga hinge
JP920130016-JP-NP	Japan	12 Jun 2015	5758956	Keyboard for optical panel
JP920130018-JP-NP	Japan	12 Jun 2015	5759659	Eight finger force detection with a TouchPad equipped with 4 pressure sensors
JP920130023-JP-NP	Japan	12 Jun 2015	5759660	A touch input method for large screen smartphone optimized for one-handed thumb interaction
RPS920110011-JP-DIV	Japan	12 Jun 2015	5759044	[PtMng] RapidBoot Extreme (T420, E420, X1) - System and Method to Accelerate Boot Performance - John Mese (original submitter)