PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5607561

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LENOVO (SINGAPORE) PTE. LTD.	01/01/2019

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 46

Property Type	Number
Patent Number:	10088873
Patent Number:	10108361
Patent Number:	10146256
Patent Number:	10152092
Patent Number:	10133160
Patent Number:	10096441
Patent Number:	10133462
Patent Number:	10146313
Patent Number:	10146266
Patent Number:	10136062
Patent Number:	10139862
Patent Number:	10097614
Patent Number:	10120561
Patent Number:	10088938
Patent Number:	10136036
Patent Number:	10163455
Patent Number:	10162954
Patent Number:	10096264
Patent Number:	10162473
Patent Number:	10137830
Patent Number:	10095673

Property Type	Number
Patent Number:	10133368
Patent Number:	10127699
Patent Number:	10133920
Patent Number:	10146355
Patent Number:	10135782
Patent Number:	10140548
Patent Number:	10126940
Patent Number:	10165111
Patent Number:	10120422
Patent Number:	10114408
Patent Number:	10120457
Patent Number:	10114671
Patent Number:	10101895
Patent Number:	10139855
Patent Number:	10146267
Patent Number:	10103699
Patent Number:	10134137
Patent Number:	10101777
Patent Number:	10135961
Patent Number:	10132639
Patent Number:	10147426
Patent Number:	10097150
Patent Number:	10147303
Patent Number:	10152094
Patent Number:	10158728

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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Address Line 4:	CHICAGO, ILLINOIS 60654

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

Total Attachments: 8
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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 Limited, 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 Jan 1, 2019, by their duly authorized representatives.

Lenovo (Singapore) Pte Ltd.

By: _____

Name: Hugh Wu
Title: Director
Place: Beijing
Date: Jan 22, 2019

Lenovo PC International Ltd.

By: _____

Name: Wong Wai Ming
Title: Director
Place: Beijing
Date: Jan 15, 2019

EXHIBIT A

Case Reference	Country	Grant	Grant Number	Internal Title
JP920140080-US-DIV	United States	2-Oct-18	10088873	High reliability CFRP cover == Chassis Structure for portable Electronic Devices.
JP920150021-US-NP	United States	23-Oct-18	10108361	Distributed Cloud Storage Management for Data Redundancy and Security == Information Processing Apparatus for Storing Data in Cloud Environment, Terminal Device and Storage Device.
JP920150022-US-NP	United States	4-Dec-18	10146256	Battery chargable cover for Tablet == Electronic Device System, Electronic Device Cover, and Electronic Device.
JP920150031-US-NP	United States	11-Dec-18	10152092	Water Spill solution for Rising KBD == Electronic Device
JP920150050-US-NP	United States	20-Nov-18	10133160	Optical Projecter imlemetation in tablet == Projector Unit for Portable Information Devices.
JP920150097-US-NP	United States	9-Oct-18	10096441	Hitting noise reduction of Metal Dome == Electronic Apparatus having a switch device.
JP920160023-US-NP	United States	20-Nov-18	10133462	Dual slots antenna for convertible tablet PCs
JP920160077-US-NP	United States	4-Dec-18	10146313	Forcepad click button implementation
JP920160084-US-NP	United States	4-Dec-18	10146266	Hinge Structure w/assist spring for Wave KBD
JP920170002-US-NP	United States	20-Nov-18	10136062	Easy camera privacy
JP920170032-US-NP	United States	27-Nov-18	10139862	Unlatch System by SMA
RPS920100030-US-CNT	United States	9-Oct-18	10097614	Enahnced Remote Desktop support in low power environments == Establishing a Remote Desktop.

RPS920110014-US-NP	United States	6-Nov-18	10120561	MAXIMUM SPEED CRITERION FOR A VELOCITY GESTURE
RPS920130011-US-NP	United States	2-Oct-18	10088938	Method to enable multiple physical token interactions on a touch device == Touchscreen and Token Interactions.
RPS920130043-US-CNT	United States	20-Nov-18	10136036	Camera Flap for Tablet cover == Control Flap
RPS920130123-US-NP	United States	25-Dec-18	10163455	Method to start/stop listening and process speech separators == Detecting Pause in Audible Input to Device.
RPS920130162-US-NP	United States	25-Dec-18	10162954	Using Smart Credit card for One Time Account Numbers == Biometric Account Card.
RPS920130262-US-NP	United States	9-Oct-18	10096264	Tactile interface for the Visually Challenged == Tactile Interface for Visually Impaired.
RPS920140044-US-NP	United States	25-Dec-18	10162473	Method for having a usable back button in newly created browser windows or tabs == Integrating Browser Navigation between Multiple Browsing Contexts.
RPS920140060-US-NP	United States	27-Nov-18	10137830	Self adjusting interior car lighting based on eye or head tracking and preferences == Self-Adjusting lighting Based on viewing Location.
RPS920140066-US-NP	United States	9-Oct-18	10095673	A method of reducing word hint list size based on additional stroke data relative to radical == Generating Candidate Logograms.
RPS920140111-US-NP	United States	20-Nov-18	10133368	[PtMng] Write Anywhere #7 - Undo operation for conversion between ink and other format [original submission by Zhang, Jianbang (600006)] == Undo Operation for Ink Stroke Conversion.
RPS920140116-US-NP	United States	13-Nov-18	10127699	Serial visual presentation for handling smartwatch text messages and notifications == Serial Visual

				Presentation for Wearable Displays.
RPS920140117-US-NP	United States	20-Nov-18	10133920	Method to improve OCR (ICR) recognition accuracy of digital pen writing === Improved OCR through Voice Recognition.
RPS920140125-US-NP	United States	4-Dec-18	10146355	Method to improve HID input with voice === HUman Interface Device Input
RPS920140130-US-NP	United States	20-Nov-18	10135782	[PtMng] Broaden Think Big ¿ Method to identify close people, by network strength and direction of email [orig. submitted by WALTERMANN, ROD D. (506142)] === Determining Close contacts using communication data.
RPS920140182-US-NP	United States	27-Nov-18	10140548	Method of statistical noise analysis for motion detection === Statistical Noise Analysis for Motion Detection.
RPS920140190-US-NP	United States	13-Nov-18	10126940	A method to tune size, position and interkey spread for touch zones on a soft keyboard === Touch Zones on a Soft Keyboard.
RPS920140205-US-NP	United States	25-Dec-18	10165111	IDENTIFYING AN UNKNOWN CONTACT
RPS920150055-US-NP	United States	6-Nov-18	10120422	[PtMng] Matrix #9 - Modular PC / Workstation [orig. submitted by Godfrey, Cyan (629160)] === Vertical Modular Computing Device.
RPS920150057-US-NP	United States	30-Oct-18	10114408	[PtMng] Matrix #6 - Hidden compartment with ports/connectors for mini PC or PC stick [orig. submitted by Godfrey, Cyan (629160)] === Hidden Compartment with ports for mini PC or PC stick.
RPS920150084-US-NP	United States	6-Nov-18	10120457	Phrase hint list medication based on stroke/radical/sub-character writing on the follow-up characters === Displaying a logogram Indication

RPS920150115-US-NP	United States	30-Oct-18	10114671	Method to interrupt device experience == Device Interruption.
RPS920150138-US-NP	United States	16-Oct-18	10101895	Display Vision Enhancement - Dynamic interface/application to customize display setting for users who sufffer from Color Vision Deficiency (CVD) == Presentation of Images o Display based on User-Specific Color Values.
RPS920150153-US-NP	United States	27-Nov-18	10139855	[PtMng] Smartstrap - Running wire through soft-good strap (originally submitted by Peter Rane) == Case with Strap Comprising Computer Cable Coupled Thereto.
RPS920160003-US-NP	United States	4-Dec-18	10146267	[PtMng] Cartier Notebook #2 - Two Sided Fold [orig. submitted by Perelli, Thomas (WT-9NZJ5E-CONTRACTOR)] == Computing Device with Elastomeric hinge Assembly,.
RPS920160018-US-NP	United States	16-Oct-18	10103699	Method to alter sound volume of computerized device based on voice volume == Automatically Adjusting a Volume of a Speaker of a device based on an Amplitude of Voice Input to the device.
RPS920160024-US-NP	United States	20-Nov-18	10134137	Method to reduce local media storage by using commonalities == Reducing Storage Using Commonalities.
RPS920160075-US-NP	United States	16-Oct-18	10101777	[PtMng] Yoga 930-730 #1 - Pop-out Camera for electronic device [originally submitted by Tucker, Matthew Ian (640687)] == Retractable Camera.
RPS920170006-US-NP	United States	20-Nov-18	10135961	Selective unblock of contact information when placing calls == Systems and Methods to disable caller identification blocking.
RPS920170014-US-NP	United States	20-Nov-18	10132639	Follow mode for gps navigation == Systems and Methods to provide updates

				at first device of location of second device as the devices travel to a destination.
RPS920170048-US-NP	United States	4-Dec-18	10147426	Method to differentiate digital assistant output method == Method and Device to Select an Audio Output Circuit based on Priority Attributes.
RPS920170052-US-NP	United States	9-Oct-18	10097150	Multiple device volume cooperation based on wearable devices == Systems and Methods to Increase Volume of Audio output by a device.
RPS920170072-US-NP	United States	4-Dec-18	10147303	Intelligent Alarm Management == Adjusting Alarm Settings based on Context.
RPS920170086-US-NP	United States	11-Dec-18	10152094	Augmented Yoga Gear Hinge with Reversing Drive == Hinge Assembly.
RPS920170088-US-NP	United States	18-Dec-18	10158728	METHOD AND DEVICE TO TRACK OBJECTS
JP920160012-BE-EPA	Belgium	14-Nov-18	3239805	CFRP over lap strengthening method
RPS920140098-BE-BEA	Belgium	21-Nov-18	3048520	Handwritten stroke auto adjustment inside existing layout
JP920160012-DE-EPA	Germany	14-Nov-18	3239805	CFRP over lap strengthening method
RPS920110061-DE-NP	Germany	22-Nov-18	102012109 959	Automatic magnification and selection confirmation
RPS920140098-DE-DEA	Germany	21-Nov-18	3048520	Handwritten stroke auto adjustment inside existing layout
RPS920150020-DE-DEA	Germany	17-Oct-18	3125238	A method of annotation for punctuation with stylus/finger focused on speech to text input
RPS920150020-DE-NP	Germany	17-Oct-18	602016006 442.1	A method of annotation for punctuation with stylus/finger focused on speech to text input

JP920160012-GB-EPA	Great Britain	14-Nov-18	3239805	CFRP over lap strengthening method
RPS920140011-GB-NP	Great Britain	19-Dec-18	2527206	Phone Ringtone Adjustment Dependent on User Proximity
RPS920140073-GB-NP	Great Britain	26-Dec-18	2528567	Stylus Proximity-Based Application Launch
RPS920140098-GB-GBA	Great Britain	21-Nov-18	3048520	Handwritten stroke auto adjustment inside existing layout
RPS920140154-GB-NP	Great Britain	14-Nov-18	2544387	Method for network bandwidth reduction on metered connections
RPS920140170-GB-NP	Great Britain	21-Nov-18	2528392	Smart Watch Band Links
RPS920150020-GB-GBA	Great Britain	17-Oct-18	3125238	A method of annotation for punctuation with stylus/finger focused on speech to text input
JP920160024-JP-NP2	Japan	21-Dec-18	6454748	A method of Human Presence Detection
JP920160029-JP-NP	Japan	14-Dec-18	6450709	Iris recognition UX improvement by avatar preview screen
JP920160080-JP-NP	Japan	28-Dec-18	6456891	fin shape oprimization and combination
JP920160108-JP-DIV	Japan	19-Oct-18	6421263	Structure for Foldable Screen(B1)
JP920160108-JP-NP	Japan	9-Nov-18	6429909	Structure for Foldable Screen(B1)
JP920170019-JP-NP2	Japan	5-Oct-18	6412626	Narrow gap structure between Keycap and Cosmetic Frame
JP920170035-JP-NP	Japan	12-Oct-18	6416995	New User Input Method over Pocket with Finger Scraping Directions
JP920170036-JP-NP	Japan	16-Nov-18	6433538	Heat staking Undermount structure on Metal C-cover,160210
JP920170042-JP-NP	Japan	19-Oct-18	6418716	Firmware Layer Flexible I/O Control for Smart Devices
JP920170043-JP-NP	Japan	16-Nov-18	6435025	Bluetooth Keyboard Enhancement

JP920170048-JP-NP	Japan	19-Oct-18	6420418	Pen Holder for thinner system
JP920170055-JP-NP	Japan	21-Dec-18	6453413	Structure for Foldable Screen (F1)
JP920170058-JP-NP	Japan	5-Oct-18	6409240	Modern Standby Control And In-bag detection
JP920160012-NL-EPA	Netherlands	14-Nov-18	3239805	CFRP over lap strengthening method