

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5823658

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LENOVO (SINGAPORE) PTE LTD	09/18/2019

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 37

Property Type	Number
Patent Number:	10269377
Patent Number:	10289664
Patent Number:	10257363
Patent Number:	10257631
Patent Number:	10275047
Patent Number:	10262446
Patent Number:	10284910
Patent Number:	10298769
Patent Number:	10282908
Patent Number:	10276169
Patent Number:	10252154
Patent Number:	10248189
Patent Number:	10305312
Patent Number:	10261606
Patent Number:	10283985
Patent Number:	10283117
Patent Number:	10296054
Patent Number:	10255461
Patent Number:	10289850
Patent Number:	10289200
Patent Number:	10277402

PATENT

Property Type	Number
Patent Number:	10255493
Patent Number:	10264457
Patent Number:	10296207
Patent Number:	10303263
Patent Number:	10299037
Patent Number:	10285294
Patent Number:	10289153
Patent Number:	10296279
Patent Number:	10282082
Patent Number:	10306443
Patent Number:	10276154
Patent Number:	10251130
Patent Number:	10254936
Patent Number:	10248214
Patent Number:	10277945
Patent Number:	10289165

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: 9192942747

Email: jfriday@lenovo.com

Correspondent Name: JASON A FRIDAY, ESQ

Address Line 1: 8001 DEVELOPMENT DRIVE

Address Line 2: LEGAL DEPARTMENT, PATENTS

Address Line 4: MORRISVILLE, NORTH CAROLINA 27560

NAME OF SUBMITTER:	JASON A. FRIDAY
SIGNATURE:	/s/ Jason A. Friday
DATE SIGNED:	11/15/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 5

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Schedule C: Deed of Transfer**DEED OF TRANSFER****BY AND BETWEEN:**

1. **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, 556741, hereinafter referred to as "Seller"; and
2. **Lenovo PC International Limited**, a limited company organized under the laws of Hong Kong with its principal place of business at 23/F, Lincoln House, 979 King's Road, Quarry Bay, Hong Kong hereinafter referred to as "Purchaser".

HEREBY AGREE AS FOLLOWS:

- (a) Pursuant to the periodic intellectual property sales and transfer agreement to be effective as of the 1st day of April, 2013 (the "Agreement"), Seller has agreed to sell, transfer, convey and assign the first day of each Quarter (as defined in the Agreement) to Purchaser, all Future IP vested in such respective previous Quarter and Purchaser has agreed to purchase, assume and accept the same;
- (b) The Future IP vested in the Quarter prior to the date hereof (being months April to June 2019) and sold, transferred, conveyed and assigned pursuant to this deed of transfer are (the "Vested Future IP");

Technical IP:

Case Reference	Country	Grant	Grant Number	Internal Title
RPS920130123-US-NP-CON	United States	4/23/2019	10269377	Method to start/stop listening and process speech separators — Detecting Pause in Audible Input to Device.
JP920170028-US-NP	United States	5/14/2019	10289165	Tight Docking Mechanism for 2 in 1 Detachable
RPS920150082-US-NP	United States	5/14/2019	10289664	Handwriting auto-completion of multi-word Chinese phrases using first stroke of the composing words — Logogram Phrase Completion - from initial strokes
RPS920150080-US-NP	United States	4/9/2019	10257363	Method to coordinate voice input on multiple devices — Coordinating Input on Multiple Local Devices.
RPS920150044-US-NP	United States	4/9/2019	10257631	Method for prompting user to optimize voice quality — Notifying a user to improve voice quality.
RPS920150195-US-NP	United States	4/30/2019	10275047	[PtMng] Graf (IR pen calibration) #2 - Method to prevent IR pen tracking loss [orig. submitted by Li, Scott Wentao (601961)] — Determining Stylus Location Relative to Projected Whiteboard using Secondary IR emitted on Stylus.
RPS920170084-US-NP	United States	4/16/2019	10262446	Augmented Reality Recognition of Path

				Safety == Systems and Methods to Alter presentation of Virtual Rendition based on real world object.
RPS920170089-US-NP	United States	5/7/2019	10284910	Method to predict remote controlled device power-up == Powering-on devices based on remote control movement.
RPS920150176-US-NP	United States	5/21/2019	10298769	Call transfer between devices == Call Transfer Between Devices.
RPS920160063-US-NP[1]	United States	5/7/2019	10282908	Method to indicate visibility of augmented reality objects == Systems and Methods for Presenting indication(s) of Whether Virtual Object presented at first device is also presented at second device.
RPS920160061-US-NP	United States	4/30/2019	10276169	Method to optimize voice recognition == Speaker Recognition Optimization.
RPS920160058-US-NP	United States	4/9/2019	10252154	Restricted vs non-restricted content in games using Augmented Reality == Systems and Methods for Presentation of Content at headset based on Rating.
RPS920150172-US-NP	United States	4/2/2019	10248189	Method of intelligently deciding when to show Augmented Reality objects for modifying real world objects == Presentation of Virtual Reality object based on one or more conditions.
RPS920160042-US-NP	United States	5/28/2019	10305312	[PtMng] STIC Proof of Concepts #1 - Supplemental Power System for Battery Powered Computer [orig. submitted by ESTES, LARRY Glenn (00504494)] == Supplemental power System for Battery powered device.
RPS920160036-US-NP	United States	4/16/2019	10261606	[IoD] Futuristic Notebooks #3 - Fold Out Touchpad == Electronic Assembly with Expandable Input Device.
RPS920150165-US-NP	United States	5/7/2019	10283985	Method to determine charging cadence == Systems and Methods to Determine Time at which battery is to be charged.
RPS920170024-US-NP	United States	5/7/2019	10283117	Modular Approach to provide Wake on Voice functionality for PCs = Systems and Methods for Identification of response cue at peripheral device.
RPS920150227-US-NP	United States	5/21/2019	10296054	Segmented Hinge Joint == Lobster Hinge Assembly
RPS920150108-US-NP	United States	4/9/2019	10255461	[PtMng] ThinkStation Vancouver,Globe #8 - Front Access Storage Enclosure safe drive eject [orig. submitted by PAINTER, ALAN L. (00504560)] == Secure Device Chamber.
RPS920150094-US-NP	United States	5/14/2019	10289850	Secure method of setting supervisor password when one does not already exist during automated deployments == Accessing Supervisor Password via Key press.
RPS920140135-US-CNT	United States	5/14/2019	10289200	Vibrating force illusion generating device implemented on electronic pen, mouse and wearable/glove/ring, to provide directional boundary/edge cross awareness and access control user experience == Force Indication

				of a Boundary.
RPS920140136-US-NP	United States	4/30/2019	10277402	Method to digitally sign or resign a document — Digitally Signing a Document
RPS920140114-US-NP	United States	4/9/2019	10255493	Improve ink layout analysis using grammar check, regular expressions or NLP — Ink Layout Analysis.
RPS920140147-US-NP	United States	4/16/2019	10264457	WiFi Friend's Circle — Wireless Network Access for Social Network Connections.
RPS920140102-US-NP	United States	5/21/2019	10296207	[PtMng] Write Anywhere #1 - Method to capture strokes (orig. submitted by VANBLON, RUSSELL SPEIGHT (00506239)) — Capture of Handwriting Strokes.
JP920170053-US-NP	United States	5/28/2019	10303263	auto swap order of finding key to generate scan codes
JP920150096-US-NP	United States	5/21/2019	10299037	Identify my audio device
JP920150080-US-NP	United States	5/7/2019	10285294	Anodized aluminum casing — Method for Producing a Chassis Member usable in a chassis of an electronic device.
JP920160012-US-NP	United States	5/14/2019	10289153	CFRP over lap strengthening method — Member for Electronic Device Chassis.
RPS920140007-US-NP	United States	5/21/2019	10296279	Dual-Screen Hinge Bezel Behavior — Displaying Images Across Multiple Displays.
RPS920130269-US-NP	United States	5/7/2019	10282082	Automatic keyboard data compensation while device is being transported — Altering Presentation of an element presented on a device based on input from a motion sensor.
RPS920130252-US-DIV[2]	United States	5/28/2019	10306443	Location-limited secure peripherals — Providing Access to and Enabling Functionality of first device based on Communication with second device.
RPS920130249-US-NP	United States	4/30/2019	10276154	Method to process input based on device context — Processing Natural Language User Inputs Using Context Data.
RPS920140016-US-NP	United States	4/2/2019	10251130	Adaptive and Static „Keep Alive„ Message Detection and Simulation
RPS920130141-US-CNT[2]	United States	4/9/2019	10254936	Method to Select Appropriate Device for Digital Assistant Request Fulfillment — Devices and Methods to receive input at a first Device and present output in response to a second device different from the first device.
RPS920130139-US-NP	United States	4/2/2019	10248214	Wearable device that collects data written by hand — Wearable device for writing and drawing.
RPS920130018-US-NP	United States	4/30/2019	10277945	Method to provide contextual queries from Closed Caption tv Streams — Contextual Queries for Augmenting Video Display.
RPS920150203-GB-NP	Great Britain	4/24/2019	2544381	Hybrid display for a hybrid smart watch
RPS920140093-GB-NP	Great Britain	5/29/2019	2534976	Presentation of Data on an at least Partially Transparent Display based on User Focus.
RPS920140077-GB-NP	Great Britain	5/1/2019	2529513	Change auto-correct suggestions based on word position
RPS920140124-GB-NP	Great Britain	4/24/2019	2538360	Method to improve digital handwriting

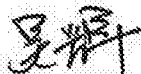
				search accuracy by means of ink search
JP920150037-GB-NP	Great Britain	5/15/2019	2542246	Click back sound prevention structure
JP920170050-JP-NP2	Japan	5/31/2019	6533852	CS18 Dock Bottom Hooks Structures
JP920160109-JP-DIV	Japan	5/31/2019	6532972	Structure for Foldable Screen(C1)
JP920170034-JP-NP	Japan	4/19/2019	6513749	Voice Assistant with Multiple Devices
JP920170033-JP-NP	Japan	4/19/2019	6513136	Integrated noise shield wall on antenna
JP920170018-JP-NP2	Japan	4/5/2019	6507207	Yoga Hinge 2in 1 notebook with stand
JP920170017-JP-NP	Japan	4/19/2019	6513134	Solder in Glue shielding method
JP920170005-JP-NP	Japan	4/19/2019	6513732	Structure for Foldable Screen(E1)
JP920160109-JP-NP	Japan	4/5/2019	6507183	Structure for Foldable Screen(C1)
JP920160043-JP-NP	Japan	4/19/2019	6513607	A method for dynamic-adjustment operational size of touchpad / trackpad
JP920170004-JP-NP	Japan	4/26/2019	6516786	High efficiency implementation of WiGig antenna

Marketing Intangibles:

Trademark	Country	Filing Date	App. No.	Reg. Date	Reg. No.
THINKSHIELD	El Salvador	9-Oct-2018	2018172396	8-May-2019	91 BOOK 351
THINKSHIELD	Taiwan	9-Oct-2018	107065350	16-Apr-2019	01981144

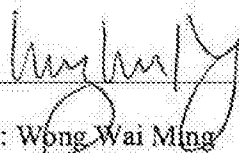
- (c) By signing this deed of transfer, Seller sells, assigns, conveys and transfers the Vested Future IP to Purchaser, which sale, assignment, conveyance and transfer Purchaser hereby accepts;
- (d) In accordance with Article 3.1 of the Agreement, the Purchase Price (as defined in the Agreement) for the sale, transfer, conveyance and assignment of the Vested Future IP is USD7,961,574;
- (e) Seller hereby authorizes Purchaser to use this deed of transfer for registering the transfer of certain of the Vested Future IP embodied in this deed of transfer in the relevant registers, if any, and Purchaser shall bear the costs associated therewith; and
- (f) This deed of transfer shall be appended to the Agreement and shall form part of the Agreement as per the date of signing of the deed of transfer.

Lenovo (Singapore) PTE Ltd.



By: Hugh Wu
Title: Director
Date: 18 September 2019
Place of execution: Chicago

Lenovo PC International Limited



By: Wong Wai Ming
Title: Director
Date: 26 August 2019
Place of execution: Tokyo