

<b>PATENT ASSIGNMENT COVER SHEET</b>
--------------------------------------

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5740178

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BALASINGH P. SAMUEL	09/17/2019
ZHAOHUI YU	09/24/2019
BIBBY YEY	09/22/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	DELL PRODUCTS L.P.
<b>Street Address:</b>	ONE DELL WAY
<b>City:</b>	ROUND ROCK
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	78682
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16584138
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(214)661-6604
<i>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.</i>	
<b>Phone:</b>	2149535990
<b>Email:</b>	croukipdocket@jw.com
<b>Correspondent Name:</b>	DELL C/O JACKSON WALKER LLP
<b>Address Line 1:</b>	100 CONGRESS AVENUE
<b>Address Line 2:</b>	SUITE 1100
<b>Address Line 4:</b>	AUSTIN, TEXAS 78701
<b>ATTORNEY DOCKET NUMBER:</b>	102450.00588 (115758.01)
<b>NAME OF SUBMITTER:</b>	CHRISTOPHER J. ROURK
<b>SIGNATURE:</b>	/Christopher J. Rourk/
<b>DATE SIGNED:</b>	09/26/2019
<b>Total Attachments: 4</b>	
source=102450-00588_Assignment#page1.tif	
source=102450-00588_Assignment#page2.tif	
source=102450-00588_Assignment#page3.tif	



**ASSIGNMENT**

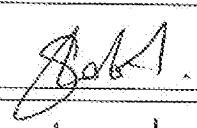
WHEREAS, **BALASINGH P. SAMUEL, ZHAOHUI YU** and **BIBBY YEH**, hereinafter called the “inventors”, have made the invention described in the United States patent application entitled “**FIRMWARE UPDATE WITH INTEGRATED SMART SEQUENCE AND ACTION ENGINE**,” Attorney Docket No. 102450.00588(115758.01), for a full description of which reference is here made to an application for Letters Patent of the United States filed herewith; and

We hereby also sell, assign and transfer unto **DELL PRODUCTS L.P.**, hereinafter called the “Assignee” having a place of business in One Dell Way, Round Rock, Texas, 78682 USA, the entire right, title and interest in and to the invention and in and to applications for Letters Patent therefor in all countries foreign to the United States of America, including all rights under any and all international conventions and treaties in respect of the invention and the applications for Letters Patent in foreign countries, and we further authorize **DELL PRODUCTS L.P.** to apply for Letters Patent in foreign countries directly in its own name, and to claim priority of the filing date of the application for Letters Patent of the United States of America under the provisions of any and all international conventions and treaties.

We hereby authorize and request the Commissioner of Patents of the United States of America to issue Letters Patent upon the aforesaid application, division, extension, continuation, continuation-in-part, or reissue, to **DELL PRODUCTS L.P.**, for the sole use and benefit of **DELL PRODUCTS L.P.**, its successors, assigns and legal representatives, to the full end of the term for which the Letters Patent may be granted, the same as they would have been held and enjoyed by us had this assignment not been made, and we hereby authorize and request the equivalent authorities in foreign countries to issue the patents of their respective countries to **DELL PRODUCTS L.P.**

We agree that, when requested, we will, without charge to **DELL PRODUCTS L.P.**, but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for the inventions in any and all countries and for vesting title thereto in **DELL PRODUCTS L.P.**, its successors, assigns and legal representatives or nominees.

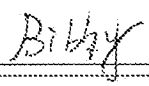
I covenant with DELL PRODUCTS L.P., its successors, assigns and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.

NAME OF FIRST INVENTOR	BALASINGH P. SAMUEL
SIGNATURE OF FIRST INVENTOR	
DATE	9/17/2019

I covenant with DELL PRODUCTS L.P., its successors, assigns and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.

NAME OF SECOND INVENTOR	ZHAOHUI YU
SIGNATURE OF SECOND INVENTOR	<i>Yu Zhaohui</i>
DATE	09/24/2019

I covenant with DELL PRODUCTS L.P., its successors, assigns and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.

NAME OF THIRD INVENTOR	BIBBY YEH
SIGNATURE OF THIRD INVENTOR	
DATE	2019.09.22