504655958 11/24/2017 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT		
ATURE OF CONVEYAN	NCE:	ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY D	ΑΤΑ				
		Name	Execution Date		
CHIEN-HUA CHEN			03/26/2015		
MICHAEL W. CUMBIE			03/27/2015		
STEPHEN FARRAR			03/26/2015		
RECEIVING PARTY DA	ТА				
Name:	Hewlet	t-Packard Development Company, L.P.			
Street Address:	11445	Compaq Center Drive West			
City:	Housto	Houston			
State/Country:	TEXAS	TEXAS			
Postal Code:	77070				
PROPERTY NUMBERS	Total: 1				
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	Total: 1	Number 15544798			
Property Type					
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Total Attachments: 3

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HEWLETT-PACKARD COMPANY		PATENT APPLICATION
Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528	RECORD ID:	84113552

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each), for good and valuable consideration, the receipt of which is hereby acknowledged, and in furtherance of my/our obligations to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Houston, Texas, (hereinafter HPDC), and to its subsidiaries and affiliates, agree to assign and transfer and hereby assign and transfer to HPDC, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under an application for Patent entitled:

Circuit Package

Filing Date: March 27, 2015

Application No.: PCT/US2015/023020

and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for said Patent, and any and all other Patent of any countries thereto which may be granted thereon or therefore; and any reissues, or reexaminations, or extensions of said Patent.

I/we additionally authorize HPDC to file applications in my/cur name for Patent in any country, to be held and enjoyed by HPDC, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, and transfer not been made;

AND I/we hereby covenant that I/we have full right to convey the entire interest herein assigned, and that I/we have not executed and will not execute any agreement in conflict herewith, and I/we further covenant and agree that I/we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Patent, to HPDC, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to HPDC, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid HPDC, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by HPDC;

AND l/we hereby authorize and request the official of any country or countries whose duty it is to issue patents on applications as aforesaid, to issue to HPDC, as assignee of the entire right, title and interest, any and all Patent for said invention(s) or improvement(s) which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

I/we further authorize and direct the attorneys of record to insert the filing date and application number of said application for Patent, now identified by the Record ID and title set forth above, as soon as the same shall have been made known to them.

 Inventor's Signature
 3/26/2015

 Chien-Hua
 Chen

 First/Middle Name
 Last Name

 Inventor's Signature
 Date

 Michael W.
 Cumbie

 First/Middle Name
 Last Name

 Rev &/2014 (Assignment)
 Page 1 of 1

IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):

PATENT REEL: 044206 FRAME: 0138

HEWLETT-PACKARD COMPANY Intellectual Property Administrator		PATENT APPLICATION
3404 E. Harmony Road Mail Stop 35	RECORD ID:	84113552
Fort Collins, Colorado 80528		
	ASSIGNMENT OF PATENT APPLICATION	

I/We, the undersigned (each), for good and valuable consideration, the receipt of which is hereby acknowledged, and in furtherance of my/our obligations to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Houston, Texas, (hereinafter HPDC), and to its subsidiaries and affiliates, agree to assign and transfer and hereby assign and transfer to HPDC, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under an application for Palent

Circuit Package

entitled:

Filing Date: ____

Application No.:

PCT/US2015/023020

and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-LP's), divisionals, and renewals of and substitutes for said application for said Patent, and any and all other Patent of any countries thereto which may be granted thereon or therefore; and any reissues, or reexaminations, or extensions of said Patent

I/we additionally authorize HPDC to file applications in my/our name for Patent in any country, to be held and enjoyed by HPOC, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by melus had this assignment, and transfer not been made;

AND I/we hereby covenant that I/we have full right to convey the entire interest herein assigned, and that i/we have not executed and will not execute any agreement in conflict herawith, and I/we further covenant and agree that I/we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Patent, to HPDC, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to HPDC, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Patent, to testify in any legal proceedings, to sign all tawful papers, to execute all disclaimers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid HPDC, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by HPDC;

AND l/we hereby authorize and request the official of any country or countries whose duty it is to issue patents on applications as aforesaid, to issue to HPDC, as assignee of the entire right, title and interest, any and all Patent for said invention(s) or improvement(s) which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

live further authorize and direct the attorneys of record to insert the filling date and application number of said application for Patent, now identified by the Record ID and title set forth above, as soon as the same shall have been made known to them.

IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):

Inventor's Signature			Date	
Chien-Hua	Chen			
First/Middle Name	Last Name		-	
Inventor's Signature	ande	-6	<u>3-27-18</u> Date	
Michael W.	Cumbie			
First/Middle Name	Last Name			
Rev 8/2014 (Assignment)		Page 1 of 1		

PATENT REEL: 044206 FRAME: 0139

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road				PATENT APPLICATION
Mail Stop 35 Fort Collins, Colorado 80528		RE	CORD ID:	84113552
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				2015
Inventor's Signature			Date	
Stephen	Farrar		_	
First/Middle Name	Last Name			
Inventor's Signature			Date	*****
First/Middle Name	Last Name			
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First/Middle Name	Last Name			
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Rev 8/2014 (Assignment)		Page 2 of 1		

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PATENT REEL: 044206 FRAME: 0140

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