## 505009101 07/18/2018

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5055849

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
VINCENT NGUYEN	07/16/2015
ROBERT E. VAN CLEVE	06/26/2015
KEVIN G. DEPEW	07/17/2015
SCOTT P. FAASSE	07/16/2015

### **RECEIVING PARTY DATA**

Name:	Hewlett-Packard Development Company, L.P.		
Street Address:	11445 Compaq Center Drive West		
City:	Houston		
State/Country:	TEXAS		
Postal Code:	77070		

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15744043

## **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:** (970) 898-7444

**Email:** hpe.ip.mail@hpe.com

Correspondent Name: HEWLETT PACKARD ENTERPRISE
Address Line 1: 3404 E. HARMONY ROAD MS 79
Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	90530669
NAME OF SUBMITTER:	LAURA M. ZAVALA
SIGNATURE:	/Laura M. Zavala/
DATE SIGNED:	07/18/2018

**Total Attachments: 8** 

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PATENT 505009101 REEL: 046383 FRAME: 0626



PATENT REEL: 046383 FRAME: 0627

Rev 8/2014 (Assignment)

PATENT APPLICATION
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RECORD ID:	84261484

## ASSIGNMENT OF PATENT APPLICATION

t/We, the undersigned (each), for good and valuable consideration, the receipt of which is hereby acknowledged,

Limited Partnership ha subsidiaries and affiliate	ving its principal place of s, agree to assign and tran	NLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas f business in Houston, Texas, (hereinafter HPDC), and to its isfer and hereby assign and transfer to HPDC, its successors and ing the right of priority, in, to and under an application for Patent
OPERATING FREQUE	NCY DETERMINATION	
Filing Date:		Application No.:
divisionals, and renewals	s of and substitutes for said	nerein, and any and all continuations, continuations-in-part (C-I-P's), d application for said Patent, and any and all other Patent of any herefore; and any reissues, or reexaminations, or extensions of said
by HPDC, its successors Patent respectively may	i, assigns, nominees or lega	ons in my/our name for Patent in any country, to be held and enjoyed if representatives, to the full end of the term or terms for which said ended, as fully and entirely as the same would have been held and ot been made;
executed and will not exe time a request is made, a perfect the title to said in nominees or legal repres- said invention(s) or impro- papers, to execute all di rightful oaths and declara and legal representatives	scute any agreement in conflicted without undue delay, exemple of improvement(s) entatives, and I/we agree to exement(s), said application isolaimers and divisionals, cations, and generally to do eat obtain and enforce, for its and all countries provided	In to convey the entire interest herein assigned, and that I/we have not lict herewith, and I/we further covenant and agree that I/we will, each cute and deliver all such papers as may be necessary or desirable to a said application and said Patent, to HPDC, its successors, assigns, communicate to HPDC, or to its nominee, all known facts respecting and said Patent, to testify in any legal proceedings, to sign all lawful continuations, C-I-P's, reissue and foreign applications, to make all sverything possible to aid HPDC, its successors, assigns, nominees or their own benefit, proper patent protection for said invention(s) or the expenses which may be incurred by me/us in lending such
applications as aforesaid	, to issue to HPDC, as assignent(s) which may be issue	cial of any country or countries whose duty it is to issue patents on gnee of the entire right, title and interest, any and all Patent for said ed and granted on or as a result of the application aforesaid, in
I/we further authoriz application for Patent, not known to them.	e and direct the attorneys widentified by the Record ID	of record to insert the filling date and application number of said and title set forth above, as soon as the same shall have been made
IN WITNESS WHER	EOF, I/we hereunto set my	v/our hand(s) and seal(s):
inventor's Signature	<u> </u>	Date
Vincent	Nguyen	
First/Middle Name	Last Name	
inventor's Signature		Date
Robert E.	Van Cleve	
First/Middle Name	Last Name	

Page 1 of 2

**PATENT** REEL: 046383 FRAME: 0628 HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35

## PATENT APPLICATION

Mail Stop 35 Fort Collins, Colorado 80528		RECORD ID:	84261484
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Inventor's Signature	Dipe-		17/2015
Kevin G.	Depew		
First/Middle Name	Last Name		
Inventor's Signature			
Scott P.	Faasse		
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name		
Inventor's Signature		Date	
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Inventor's Signature		Date	
First/Middle Name	Last Name		

Page 2 of 2

Rev 8/2014 (Assignment)

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RECORD ID:	84261484

#### 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: **OPERATING FREQUENCY DETERMINATION** Application No.: Filing Date: 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 I/we additionally authorize HPDC to file applications in my/our 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 I/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. IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s): Inventor's Signature Date Vincent Nguyen First/Middle Name Last Name Inventor's Signature Robert E. Van Cleve First/Middle Name Last Name

Page 1 of 2

### PATENT APPLICATION

RECORD ID:	84261484
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## **ASSIGNMENT OF PATENT APPLICATION (cont.)**

Inventor's Signature		Date
Kevin G.	Depew	
First/Middle Name	Last Name	
Vent 1		7/16/2015
Inventor's Signature		Date
Scott P.	Faasse	
First/Middle Name	Last Name	<del></del>
Inventor's Signature		Date
First/Middle Name	Last Name	<del></del>
Inventor's Signature		Date
First/Middle Name	Last Name	
Inventor's Signature		Date
First/Middle Name	Last Name	
Inventor's Signature		Date
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First/Middle Name	Last Name	

Page 2 of 2

Rev 8/2014 (Assignment)

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RECORD ID:	84261484
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### **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:

assigns, the entire right entitled:	, title and interest, including	the right of priority, in, to and under an application for Palent
OPERATING FREQUE	VCY DETERMINATION	
Filing Date:		Application No.:
divisionals, and renewal	s of and substitutes for said	erein, and any and all continuations, continuations-in-part (C-I-P's), application for said Patent, and any and all other Patent of any erefore; and any reissues, or reexaminations, or extensions of said
by HPDC, its successors Patent respectively may	, assigns, nominees or legal	ns in my/our name for Patent in any country, to be held and enjoyed representatives, to the full end of the term or terms for which said nded, as fully and entirely as the same would have been held and t been made;
executed and will not exe time a request is made, a perfect the title to said in nominees or legal repres said invention(s) or impro papers, to execute all d rightful oaths and declare and legal representatives	scute any agreement in conflicted without undue delay, exert vention(s) or improvement(s), entatives, and I/we agree to exert	to convey the entire interest herein assigned, and that I/we have not cherewith, and I/we further covenant and agree that I/we will, each cute and deliver all such papers as may be necessary or desirable to said application and said Patent, to HPDC, its successors, assigns, communicate to HPDC, or to its nominee, all known facts respecting and said Patent, to testify in any legal proceedings, to sign all lawful ontinuations, C-I-P's, reissue and foreign applications, to make all verything possible to aid HPDC, its successors, assigns, nominees or their own benefit, proper patent protection for said invention(s) or the expenses which may be incurred by me/us in lending such
applications as aforesaid	, to issue to HPDC, as assignent(s) which may be issue	ial of any country or countries whose duty it is to issue patents on nee of the entire right, title and interest, any and all Patent for said d and granted on or as a result of the application aforesaid, in
		of record to insert the filing date and application number of said and title set forth above, as soon as the same shall have been made
IN WITNESS WHER	<b>€GF, i/we</b> hereunto set my	/our hand(s) and seal(s):
Inventor's Stansture	hu)	7/16/2015
Vincent	Nguyen	
First/Middle Name	Last Name	
Inventor's Signature		Date
Robert E.	Van Cleve	
First/Middle Name	Last Name	

PATENT REEL: 046383 FRAME: 0632

Page 1 of 2

HEWLETT-PACKARD COMPANY Intellectual Property Administrator

## PATENT APPLICATION

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Fort Collins, Colorado 80528		RECORD ID:	04201404
	ASSIGNMENT OF PA	TENT APPLICATION (cont	)
Inventor's Signature		Date	
Kevin G.	Depew		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Scott P.	Faasse		
First/Middle Name	Last Name		
Inventor's Signature		Date	
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Page 2 of 2

Rev 8/2014 (Assignment)

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RECORD ID:	84261484

#### 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: OPERATING FREQUENCY DETERMINATION Filing Date: Application No.: 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/our 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 I/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. IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s): Inventor's Signature Date Vincent Nguyen First/Middle Name Last Name Inventor's Signature Date Robert E. Van Cleve First/Middle Name Last Name

Page 1 of 2

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35

## PATENT APPLICATION

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Inventor's Signature	<u></u>	Date	**************************************
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Inventor's Signature	Language Commission of the Com	Date:	
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Robert E.	Van Cleve		
First/Middle Name	Last Name		
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Inventor's Signature	**************************************	Date	
First/Middle Name	Last Name	**************************************	

Page 2 of 2

**RECORDED: 07/18/2018**