## 504355765 05/08/2017

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4402456

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the ASSIGNEE NAME previously recorded on Reel 041173 Frame 0080. Assignor(s) hereby confirms the CHANGE HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP TO HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P

#### **CONVEYING PARTY DATA**

Name	Execution Date	
REZA M. BACCHUS	02/26/2015	
MELVIN K. BENEDICT	02/27/2015	
STEPHEN F. CONTRERAS	02/26/2015	
ERIC L. POPE	03/16/2015	
CHI K. SIDES	02/27/2015	
CHUN-PIN HUANG	02/28/2015	

#### **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:	15500070	

#### **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:	90344336
NAME OF SUBMITTER:	TERRIE M. KRUTZ
SIGNATURE:	/TERRIE M. KRUTZ/

DATE SIGNED:	05/08/2017
Total Attachments: 11	
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## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT	*************
NATURE OF CONVEYANCE:	ASSIGNMENT	manana

## CONVEYING PARTY DATA

Name	Execution Date		
	02/26/2015		
	02/27/2015		
STEPHEN F. CONTRERAS	02/26/2015		
	03/16/2015		
Activities and activities	02/27/2015		
CHUN-PIN HUANG	02/28/2015		

#### RECEIVING PARTY DATA

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

### PROPERTY NUMBERS Total: 1

	Property Type	Number	
-	Application Number:	15500070	

#### CORRESPONDENCE DATA

Fax Number:

 Phone:
 (970) 898-7444

 Emsil:
 hpc.ip.mail@hpc.com

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.

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

ATTORNEY DOCKET NUMBER:	
NAME OF SUBMITTER:	JOHN E, NEMAZI
Signature:	/John E. Nemazi/
	DATENT

Total Attachments: 8
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RECEIPT INFORMATION

EPAS ID: PAT4259591

**EPAS ID:** PAT4259591 Receipt Date: 02/03/2017

HEWLETT-PACKARD COMPANY intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

Rev 8/2014 (Assignment)

PATENT	AP	PLIC	AT	ON

RECORD ID:	84114571
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## ASSIGNMENT OF PATENT APPLICATION

and in furtherance of Limited Partnership has subsidiaries and affiliate	my/our obligations to HEV ving its principal place of is, agree to assign and trans	able consideration, the receipt of which is hereby acknowledged, ILETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas business in Houston, Texas, (hereinafter HPDC), and to its ifer and hereby assign and transfer to HPDC, its successors and the right of priority, in, to and under an application for Patent
MEMORY MODULE VO	LTAGE REGULATOR MO	DULE (VRM)
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	s, assigns, nominees or lega	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 exitime a request is made, a perfect the title to said in nominees or legal repressaid invention(s) or imprepapers, to execute all drightful oaths and declar and legal representatives	scute any agreement in conflicted without undue detay, exein vention(s) or improvement(s) entatives, and I/we agree to overment(s), said application isclaimers and divisionals, cations, and generally to do eat to obtain and enforce, for its and all countries provided	to convey the entire interest herein assigned, and that I/we have not therewith, 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, assignation communicate to HPDC, or to its nominee, all known facts respecting and said Patent, to testify in any legal proceedings, to sign all lawfur 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	i, 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	IEOF, I/we hereunto set my	/our hand(s) and seal(s):
- Kr. 111.	Genelia	2/26/2015
Inventor's Signature		Date /
Reza M.	Bacchus	
First/Middle Name	Last Name	
Inventor's Signature		Cate
Melvin K.	Benedict	
First/Middle Name	Last Name	

Page 1 of 2

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

Rev 8/2014 (Assignment)

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RECORDID: 84114571
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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.

			ign and transfer to HPDC, its successors and y, in, to and under an application for Paten
MEMORY MODULE VOLT	AGE REGULATOR MC	DULE (VRM)	
Filing Date:		Applicatio	n No.:
divisionals, and renewals of	of and substitutes for sai	d application for said	all continuations, continuations-in-part (C-I-P's) id Patent, and any and all other Patent of an ssues, or reexaminations, or extensions of said
by HPDC, its successors, a	ssigns, nominees or lega granted, reissued or ext	al representatives, to ended, as fully and e	or Patent in any country, to be held and enjoyed the full end of the term or terms for which said entirely as the same would have been held and
executed and will not executime a request is made, and perfect the title to said invernominees or legal represent said invention(s) or improve papers, to execute all discrightful oaths and declarationand legal representatives to	te any agreement in conf without undue delay, exe ition(s) or improvement(s' latives, and l/we agree to ment(s), said application laimers and divisionals, ons, and generally to do obtain and enforce, for it d all countries provided	flict herewith, and I/we cute and deliver all si cute and deliver all si ), said application and communicate to HPE and said Patent, to to continuations, C-I-P's everything possible to s or their own benefit,	e interest herein assigned, and that I/we have not a further covenant and agree that I/we will, each uch papers as may be necessary or desirable to a said Patent, to HPDC, its successors, assigns DC, or to its nominee, all known facts respecting estify in any legal proceedings, to sign all lawfull, reissue and foreign applications, to make a policy and the proper patent protection for said invention(s) on may be incurred by me/us in lending such
applications as aforesaid, to	o issue to HPDC, as assi- nt(s) which may be issu-	gnee of the entire rig	r countries whose duty it is to issue patents or ht, title and interest, any and all Patent for said or as a result of the application aforesaid, in
			the filing date and application number of said ove, as soon as the same shall have been made
IN WITNESS WHEREC	)F, I/we hereunto set m	y/our hand(s) and se	eal(s):
Inventor's Signature			Date
Reza M.	Bacchus		
First Middle Name	Last Name	***************************************	
			27-Fib 2015
Inventor's Signature			Date
Melvin K	Benedict		
First/Middle Name	Last Name		

Page 1 of 2

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

Rev 8/2014 (Assignment)

## PATENT APPLICATION

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Inventor's Signature			Date		************
Stephen F.	Contreras				
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Inventor's Signature			Date		
Éric L	Pope			v	
First/Middle Name	Last Name		_		
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Inventor's Signature			Date		
Chun-Pin	Huang				
First/Middle Name	Last Name	<u> </u>	<del>.</del>		
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Inventor's Signature		<del></del> :	Date		<del>.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>
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First/Middle Name	Last Name				
inventor's Signature			Date		
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Page 2 of 2

HEWLETT-PACKARD COMPANY intellectual Prop 3404 E. Harmon Mail Stop 35 Fort Collins, Col

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	ASSIGNMENT OF PATENT	APPLICATION	
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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 MEMORY MODULE VOLTAGE REGULATOR MODULE (VRM) 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 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 Reza M. Bacchus First/Middle Name Last Name Inventor's Signature Date Melvin K. Benedict First/Middle Name Last Name

Page 1 of 2

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

#### PATENT APPLICATION

RECORD ID:	84114571

## ASSIGNMENT OF PATENT APPLICATION (cont.)

Inventor's Signature		Date
Stephen F.	Contreras	
First/Middle Name	Last Name	
J. Paris Contract Con		,
Peri L	1 mg	16 March 2015
Inventor's Signature		Date
Eric L.	Pope	
First/Middle Name	Last Name	
Inventor's Signature	UL DIALIBARARARARARARARARARARARARARARARARARARAR	Date
Chi K.	Sides	
First/Middle Name	Last Name	
Inventor's Signature		Date
Chun-Pin	Huang	
First/Middle Name	Last Name	
inventor's Signature	AVAILABILITY - Pro-dess	Date
First/Middle Name	Last Name	
Inventor's Signature	***************************************	Date
First/Middle Name	Last Name	

Page 2 of 2

Rev 9/2014 (Assignment)

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

#### PATENT APPLICATION

RECORD ID:	84114571
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## ASSIGNMENT OF PATENT APPLICATION (cont.)

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Inventor's Signature	****		Date	
Stephen F.	Contreras			
First/Middle Name	Last Name			
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Inventor's Signature		***************************************	Date	
Eric L.	Pope	ą.,		
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Inventor's Signature			Date Date	The state of the s
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Chun-Pin	Huang			
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First/Middle Name	Last Name			
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Page 2 of 2

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Critics, Coforado 80528

#### PATENT APPLICATION

RECORD ID:	84114571
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# ASSIGNMENT OF PATENT APPLICATION (cont.)

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Inventor's Signature		Date	
Stephen F.	Contreras		
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Inventor's Signature		Date	
Eric L.	Postar s		
First/Middle Name	Pope	<del>and the state of </del>	
) lecty lastrature (Alteste)	Last Name		
Inventor's Signature		Date	
Chí k	Sides		
First/Middle Name	LastName		
	Company Secure Co		
<i>M</i> 207			
ZNUNÇAN XV. ev Inventor's Signature	M	2-28-2015	
Inventor's Signature		Date	
Chun-Pin	Huang		
First/Middle Name	Last Name		
nventor's Signature		Date	*************
First/Middle Name	Last Name	<del>ora da significación de la constantidad</del>	
Constituting the Australia			
nventor's Signature		Daie	***************************************
		•	
imiéMiddle Name	Last Name		

Rev 5/2014 (Assignment)

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PATENT REEL: 042420 FRAME: 0172

**RECORDED: 05/08/2017**