

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4402456

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	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..
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
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
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Hewlett-Packard Development Company, L.P.
<b>Street Address:</b>	11445 Compaq Center Drive West
<b>City:</b>	Houston
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77070
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15500070
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	(970) 898-7444
<b>Email:</b>	hpe.ip.mail@hpe.com
<b>Correspondent Name:</b>	HEWLETT PACKARD ENTERPRISE
<b>Address Line 1:</b>	3404 E. HARMONY ROAD MS 79
<b>Address Line 4:</b>	FORT COLLINS, COLORADO 80528
<b>ATTORNEY DOCKET NUMBER:</b>	90344336
<b>NAME OF SUBMITTER:</b>	TERRIE M. KRUTZ
<b>SIGNATURE:</b>	/TERRIE M. KRUTZ/

**DATE SIGNED:**

05/08/2017

**Total Attachments: 11**

source=90344336\_AssignmentCorrection#page1.tif

source=90344336\_AssignmentCorrection#page2.tif

source=90344336\_AssignmentCorrection#page3.tif

source=90344336\_AssignmentCorrection#page4.tif

source=90344336\_AssignmentCorrection#page5.tif

source=90344336\_AssignmentCorrection#page6.tif

source=90344336\_AssignmentCorrection#page7.tif

source=90344336\_AssignmentCorrection#page8.tif

source=90344336\_AssignmentCorrection#page9.tif

source=90344336\_AssignmentCorrection#page10.tif

source=90344336\_AssignmentCorrection#page11.tif

**PATENT**

**REEL: 042420 FRAME: 0163**

**PATENT ASSIGNMENT COVER SHEET**

Electronic Version v1.1  
Stylesheet Version v1.2

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT														
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT														
<b>CONVEYING PARTY DATA</b>															
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>REZA M. BACCHUS</td><td>02/26/2015</td></tr><tr><td>MELVIN K. BENEDICT</td><td>02/27/2015</td></tr><tr><td>STEPHEN F. CONTRERAS</td><td>02/26/2015</td></tr><tr><td>ERIC L. POPE</td><td>03/16/2015</td></tr><tr><td>CHI K. SIDES</td><td>02/27/2015</td></tr><tr><td>CHUN-PIN HUANG</td><td>02/28/2015</td></tr></tbody></table>	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	
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														
<b>RECEIVING PARTY DATA</b>															
<table border="1"><tr><td><b>Name:</b></td><td>Hewlett Packard Enterprise Development LP Hewlett-Packard Development Company, L.P.</td></tr><tr><td><b>Street Address:</b></td><td>11445 Compaq Center Drive West</td></tr><tr><td><b>City:</b></td><td>Houston</td></tr><tr><td><b>State/Country:</b></td><td>TEXAS</td></tr><tr><td><b>Postal Code:</b></td><td>77070</td></tr></table>	<b>Name:</b>	Hewlett Packard Enterprise Development LP Hewlett-Packard Development Company, L.P.	<b>Street Address:</b>	11445 Compaq Center Drive West	<b>City:</b>	Houston	<b>State/Country:</b>	TEXAS	<b>Postal Code:</b>	77070					
<b>Name:</b>	Hewlett Packard Enterprise Development LP Hewlett-Packard Development Company, L.P.														
<b>Street Address:</b>	11445 Compaq Center Drive West														
<b>City:</b>	Houston														
<b>State/Country:</b>	TEXAS														
<b>Postal Code:</b>	77070														
<b>PROPERTY NUMBERS Total: 1</b>															
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td><b>Application Number:</b></td><td>15500070</td></tr></tbody></table>	Property Type	Number	<b>Application Number:</b>	15500070											
Property Type	Number														
<b>Application Number:</b>	15500070														
<b>CORRESPONDENCE DATA</b>															
<b>Fax Number:</b>															
<b>Phone:</b>	(970) 898-7444														
<b>Email:</b>	hpc.ip.mail@hpe.com														
<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>Correspondent Name:</b>	HEWLETT PACKARD ENTERPRISE														
<b>Address Line 1:</b>	3404 E. HARMONY ROAD MS 79														
<b>Address Line 4:</b>	FORT COLLINS, COLORADO 80528														
<b>ATTORNEY DOCKET NUMBER:</b>	90344336														
<b>NAME OF SUBMITTER:</b>	JOHN E. NEMAZI														
<b>Signature:</b>	/John E. Nemazi/														

**Date:**

02/03/2017

**Total Attachments: 8**

source=90344336\_Assignment#page1.tif  
source=90344336\_Assignment#page2.tif  
source=90344336\_Assignment#page3.tif  
source=90344336\_Assignment#page4.tif  
source=90344336\_Assignment#page5.tif  
source=90344336\_Assignment#page6.tif  
source=90344336\_Assignment#page7.tif  
source=90344336\_Assignment#page8.tif

**RECEIPT INFORMATION**

**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

PATENT APPLICATION

RECORD ID: 84114571

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:

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 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):

Reza M. Bacchus 2/26/2015  
Inventor's Signature Date

Reza M. Bacchus  
First/Middle Name Last Name

\_\_\_\_\_  
Inventor's Signature Date

Melvin K. Benedict  
First/Middle Name Last Name

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**

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:

**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 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

Reza M. Bacchus  
First/Middle Name Last Name

Inventor's Signature

Date

Melvin K. Benedict  
First/Middle Name Last Name

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.)

Stephen F. Contreras 2/26/15  
Inventor's Signature Date

Stephen F. Contreras  
First/Middle Name Last Name

\_\_\_\_\_  
Inventor's Signature Date

Eric L. Pope  
First/Middle Name Last Name

\_\_\_\_\_  
Inventor's Signature Date

Chi K. Sides  
First/Middle Name Last Name

\_\_\_\_\_  
Inventor's Signature Date

Chun-Pin Huang  
First/Middle Name Last Name

\_\_\_\_\_  
Inventor's Signature Date

\_\_\_\_\_  
First/Middle Name Last Name

\_\_\_\_\_  
Inventor's Signature Date

\_\_\_\_\_  
First/Middle Name Last Name

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

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:

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 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

Reza M.

Bacchus

First/Middle Name

Last Name

Inventor's Signature

Date

Melvin K.

Benedict

First/Middle Name

Last Name



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

Inventor's Signature

Date

Eric L.

Pope

First/Middle Name

Last Name

Inventor's Signature

Date

Chi K.

Sides

First/Middle Name

Last Name

Inventor's Signature

Date

Chun-Pin

Huang

First/Middle Name

Last Name

Inventor's Signature

Date

First/Middle Name

Last Name

Inventor's Signature

Date

First/Middle Name

Last Name

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

Inventor's Signature

Date

Eric L.

Pope

First/Middle Name

Last Name

Inventor's Signature

Date

Chi K.

Sides

First/Middle Name

Last Name

Inventor's Signature

Date

Chun-Pin

Huang

First/Middle Name

Last Name

Inventor's Signature

Date

First/Middle Name

Last Name

Inventor's Signature

Date

First/Middle Name

Last Name

HEWLETT-PACKARD COMPANY  
Intellectual Property Administrator  
3454 E. Harmony Road  
Mail Stop 85  
Fort Collins, Colorado 80526

PATENT APPLICATION

RECORD ID: 84114571

ASSIGNMENT OF PATENT APPLICATION (cont.)

Inventor's Signature

Date

Stephen F.

Contreras

First/Middle Name

Last Name

Inventor's Signature

Date

Eric L.

Pope

First/Middle Name

Last Name

Inventor's Signature


Date

Chi K.

Sides

First/Middle Name

Last Name

  
Inventor's Signature

2-28-2015  
Date

Chun-Pin

Huang

First/Middle Name

Last Name

Inventor's Signature

Date

First/Middle Name

Last Name

Inventor's Signature

Date

First/Middle Name

Last Name