PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2951887

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
STEPHEN M. DEROOS	09/29/2011
MILES K. THORLAND	09/30/2011
STEPHEN M. BRETHAUER	09/29/2011
CRAIG M. BLACKWOOD	09/29/2011
JOHN A. LANDRY	09/29/2011

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:	14240391

CORRESPONDENCE DATA

Fax Number: (970)778-4063

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: (541)715-8443 **Email:** ipa.mail@hp.com

Correspondent Name: HEWLETT-PACKARD COMPANY **Address Line 1:** 3404 E. HARMONY ROAD MS 35

Address Line 2: INTELLECTUAL PROPERTY ADMINISTRATION

Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	83812231
NAME OF SUBMITTER:	DEBORAH HIGHAM
SIGNATURE:	/Deborah Higham/
DATE SIGNED:	07/24/2014

Total Attachments: 8

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PATENT REEL: 033380 FRAME: 0702

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PATENT REEL: 033380 FRAME: 0703

Rev 09/11 (Assignment)

PATENT APPLICATION

RECORD ID:	82749008
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ASSIGNMENT OF PATENT APPLICATION

IAVe, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD

Texas, (hereinafter HPDC), in furtherance of subsidiaries and affiliates, and do hereby assign title and interest, including the right of priority, in, entitled:	ited Partnership having its principal place of business in Houston, my/our obligations to the Hewlett-Packard Company and its and transfer to HPDC, its successors and assigns, the entire right, to and under an application for Letters Patent of the United States
DECISION DEVICE AND METHO D THEREOF	
Filing Date:	Application No.:
and the invention(s) and improvement(s) set forting P's), divisionals, and renewals of and substitutes Patent of the United States and of countries for reissues, or reexaminations, or extensions of sale I/we additionally authorize HPDC to file held and enjoyed by HPDC, its successors, assisterms for which said Letters Patent respectively same would have been held and enjoyed by me/AND I/we hereby covenant that I/we have not executed and will not execute any a that I/we will, each time a request is made, and in necessary or desirable to perfect the title to said Patent, to HPDC, its successors, assigns, nom HPDC, or to its nominee, all known facts respectively. Letters Patent, to testify in any legal proceedings continuations, C-1-P's, reissue and foreign applied to everything possible to aid HPDC, its succeeding the everything possible to aid HPDC, its succeeding the possible of the proper pate countries provided the expenses which may be paid by HPDC; AND I/we hereby authorize and request and any official of any country or countries from the polications as aforesaid, to issue to HPDC, as patient for said invention(s) or improvement(s), the succeeding and any first invention(s) or improvement(s), the succeeding and granted on or as a result of the applications and granted on or as a result of the applications and granted on or as a result of the applications and granted on or as a result of the applications.	In therein, and any and all continuations, continuations-in-part (C-i- for said application for said Letters Patent, and any and all Letters reign thereto which may be granted thereon or therefore; and any I Letters Patent. applications in my/our name for Letters Patent in any country, to be gris, nominees or legal representatives, to the full end of the term or may be granted, reissued or extended, as fully and entirely as the us had this assignment, and transfer not been made; we full right to convey the entire interest herein assigned, and that I/ agreement in conflict herewith, and I/we further covenant and agree without undue detay, execute and deliver all such papers as may be d invention(s) or improvement(s), said application and said Letters inees or legal representatives, and I/we agree to communicate to ching said invention(s) or improvement(s), said application and said is, to sign all lewful papers, to execute all disclaimers and divisionals, cations, to make all rightful oaths and declarations, and generally to secon, assigns, nominees and legal representatives to obtain and ant protection for said invention(s) or improvement(s) in any and all incurred by me/us in lending such cooperation and assistance are If the Commissioner of Patents and Trademarks of the United States preign to the United States whose duty it is to issue patents on assignee of the entire right, title and interest, any and all Letters including any and all Letters Patent of the United States which may application aforesaid, in accordance with the terms of this assignment, thorneys of record to insert the serial number and filing date of said tittle set forth above as soon as the same shall have been made
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Miles K Thorland inventor's Typed Name	Date Application Signed

Page 1 of 2

PATENT APPLICATION

Mail Stop 35 Fort Collins, Colorado 80528	RECORD ID:	82749008
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Inventor's Signature	Date Assignm	ent Signed
Stephen M. Brethauer Inventor's Typed Name	Date Applicati	on Signed
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Inventor's Signature	Date Assignm	ent Signea
Craig M Blackwood Inventor's Typed Name	Date Applicati	on Signed
Inventor's Signature	Date Assignm	ent Signed
John A Landry Inventor's Typed Name	Date Applicati	on Signed
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ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Houston, Texas, (hereinafter HPDC), in furtherance of my/our obligations to the Hewlett-Packard Company and its

subsidiaries and affiliates, and do 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 Letters Patent of the United States **DECISION DEVICE AND METHOD THEREOF** 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 Letters Palent, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefore; and any reissues, or reexaminations, or extensions of said Letters Patent. I/we additionally authorize HPDC to file applications in my/our name for Letters 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 Letters 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 Letters 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 Letters 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 paths 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 melus in lending such cooperation and assistance are paid by HPDC: AND I/we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as afcresaid, to issue to HPDC, as assignee of the entire right, title and interest, any and all Letters Patent for said invention(s) or improvement(s), including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment. liwe further authorize and direct the attorneys of record to insert the serial number and filling date of said application now identified by the Record ID and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office. Date Assignment Signed Inventor's Signature Stephen M DeRoos Date Application Signed Inventor's Typed Name 9/30/20//
Date Assignment Signed
9/30/20//
Date Application Signed Inventor's Signature Miles K Thurland Inventor's Typed Name

Rev 09/11 (Assignment)

Page 1 of 2

PATENT APPLICATION

ASSIGNMENT OF PATENT APPLICATION (cont.)

Admi Palan	9/29/2011
inventor's Signature	Date Assignment Signed
Stephen M. Brethauer	9/22/2011
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Craig M Blackwood	<u> </u>
inventor's Typed Name	Date Application Signed
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John A Landry	
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Rev 09/11 (Assignment)

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RECORD ID:	82749008

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Houston, Texas, (hereinafter HPDC), in furtherance of my/our obligations to the Hewlett-Packard Company and its subsidiaries and affiliates, and do 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 Letters Patent of the United States entitled:

DECISION DEVICE AND METHOD THEREOF		
Filing Date:	Application No.:	
and the invention(s) and improvement(s) set forth P's), divisionals, and renewals of and substitutes for Patent of the United States and of countries foreir reissues, or reexaminations, or extensions of said I I/we additionally authorize HPDC to file apheld and enjoyed by HPDC, its successors, assign terms for which said Letters Patent respectively means would have been held and enjoyed by me/us AND I/we hereby covenant that I/we have we have not executed and will not execute any agony that I/we will, each time a request is made, and with necessary or desirable to perfect the title to said Patent, to HPDC, its successors, assigns, nomine HPDC, or to its nominee, all known facts respective Letters Patent, to testify in any legal proceedings, to continuations, C-I-P's, reissue and foreign applicated on everything possible to aid HPDC, its success enforce, for its or their own benefit, proper patent countries provided the expenses which may be in paid by HPDC; AND I/we hereby authorize and request the and any official of any country or countries for applications as aforesaid, to issue to HPDC, as a Patent for said invention(s) or improvement(s), income issued and granted on or as a result of the applications are applications and direct the atto	therein, and any and all continuations, continuations-in-part (C-lor said application for said Letters Patent, and any and all Letters ign thereto which may be granted thereon or therefore; and any Letters Patent. pplications in my/our name for Letters Patent in any country, to be use, nominees or legal representatives, to the full end of the term or may be granted, reissued or extended, as fully and entirely as the shad this assignment, and transfer not been made; a full right to convey the entire interest herein assigned, and that I/ rement in conflict herewith, and I/we further covenant and agree thout undue delay, execute and deliver all such papers as may be invention(s) or improvement(s), said application and said Letters ees or legal representatives, and I/we agree to communicate to any said invention(s) or improvement(s), said application and said to sign all lawful papers, to execute all disclaimers and divisionals, tions, to make all rightful oaths and declarations, and generally to cors, assigns, nominees and legal representatives to obtain and a protection for said invention(s) or improvement(s) in any and all curred by me/us in lending such cooperation and assistance are the Commissioner of Patents and Trademarks of the United States eign to the United States whose duty it is to issue patents on assignee of the entire right, title and interest, any and all Letters and the current of the United States which may ication aforesaid, in accordance with the terms of this assignment. It is not assignment and filling date of said itle set forth above as soon as the same shall have been made	
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Stephen M DeRoos		
Inventor's Typed Name	Date Application Signed	
Inventor's Signature	Date Assignment Signed	
Miles K Thorland		
Inventor's Typed Name	Date Application Signed	

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PATENT APPLICATION

RECORD ID:	82749008

ASSIGNMENT OF PATENT APPLICATION (cont.)

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Stephen M. Brothauer Inventor's Typed Name	Date Application Signed
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John A Landry	
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Filing Date:	Application No.:
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and any official of any country or countries foreign to applications as aforesaid, to issue to HPDC, as assigned Patent for said invention(s) or improvement(s), including the issued and granted on or as a result of the application I/we further authorize and direct the attorneys.	mmissioner of Patents and Trademarks of the United States the United States whose duty it is to issue patents on see of the entire right, title and interest, any and all Letters any and all Letters Patent of the United States which may aforesaid, in accordance with the terms of this assignment. of record to insert the serial number and filing date of said to forth above as soon as the same shall have been made
known to them by the United States Patent and Tradema	rk Office.
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Stephen M DeRoos Inventor's Typed Name	Date Application Signed
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nventor's Signature	Date Assignment Signed
Miles K Thorland	
nventor's Typed Name	Date Application Signed

Rev 09/11 (Assignment) Page 1 of 2 HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35

PATENT APPLICATION

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Stephen M. Brethauer Inventor's Typed Name	Date Application Signed	
Inventor's Signature	Date Assignment Signed	
Craig M Blackwood Inventor's Typed Name	Date Application Signed	
John Fran	9-29-2011	
Inveryor's Signature	Date Assignment Signed	
John A Landry Inventor's Typed Name	9-29-3011 Date Application Signed	
Inventor's Signature	Date Assignment Signed	
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