PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3249218

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
APRIL SLAYDEN MITCHELL	06/12/2012
JAY WILKINSON	06/29/2012
DONA WILLIAMS	06/14/2012

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:	29509514

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

HEWLETT-PACKARD COMPANY Correspondent Name: 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:	84056073
NAME OF SUBMITTER:	DREW HERNDON
SIGNATURE:	/Drew Herndon/
DATE SIGNED:	03/03/2015

Total Attachments: 6

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> PATENT REEL: 035077 FRAME: 0573

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

Rev 99/11 (Assignment)

PATENT		

RECORD ID:	83019099

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

A COMPUTER-GENERATED LAYOUT FOR PROVIDING COLLABORATIVE RESOURCES ON A COMPUTING DEVICE Filing Date: Jun 01, 2012 Application No.: 29/423604 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 Patent, 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-t-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 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 aforesaid, 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. I/we further authorize and direct the attorneys of record to insert the serial number and filing 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. Slaydon Mitchell Date Application Signed April Slayden Mitchell Inventor's Typed Name Date Assignment Signed Inventor's Signature Jay Wilkinson Date Application Signed Inventor's Typed Name

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HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3 N F

PATENT APPLICATION

3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528	RECORD ID: 83019099			
ASSIGNMENT	F PATENT APPLICATION (cont.)			
Inventor's Signature	Date Assignment Signed			
Dona Williams	Date Application Signed			
Inventor's Typed Name	Date Application Signed			
Inventor's Signature	Date Assignment Signed			
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reissues, or reexaminations, or extensions of said Letters Patent.

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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 entitled:

A COMPUTER-GENERATED LAYOUT FOR PROVIDING COLLABORATIVE RESOURCES ON A COMPUTING DEVICE

Filing Date: Jun 01, 2012 Application No.: 29/423604

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 Patent, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefore; and any

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 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 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 aforesaid, 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.

I/we further authorize and direct the attorneys of record to insert the serial number and filing 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.

Inventor's Signature	Date Assignment Signed
April Slayden Mitchell Inventor's Typed Name	Date Application Signed
MALA	06/29/12
Inventor's Signature Jay Wilkinson	Date Assignment Signed
Inventor'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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all Stop 35	RECORD ID:	83019099
ort Collins, Colorado 80528		

ASSIGNMENT OF PATENT APPLICATION (cont.)

Date Assignment Signed Inventor's Signature Dona Williams Inventor's Typed Name **Date Application Signed** Inventor's Signature Date Assignment Signed Inventor's Typed Name Date Application Signed Inventor's Signature Date Assignment Signed Inventor's Typed Name **Date Application Signed** Inventor's Signature **Date Assignment Signed** Inventor's Typed Name Date Application Signed **Date Assignment Signed** Inventor's Signature Inventor's Typed Name **Date Application Signed**

Page 2 of 2

Inventor's Signature

Inventor's Typed Name

Date Assignment Signed

Date Application Signed

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

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A COMPUTER-GENERATED LAYOUT FOR PROVIDING COLLABORATIVE RESOURCES ON A COMPUTING DEVICE Filing Date: Jun 01, 2012 Application No.: 29/423604 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 Patent, 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 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 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 aforesaid, 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. I/we further authorize and direct the attorneys of record to insert the serial number and filing 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. Inventor's Signature Date Assignment Signed April Stayden Mitchell Inventor's Typed Name **Date Application Signed** Inventor's Signature Date Assignment Signed Jay Wilkinson inventor's Typed Name Date Application Signed

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Page 1 of 2

PATENT REEL: 035077 FRAME: 0578 HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35

PATENT APPLICATION

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Donaf Wille	SSIGNMENT OF PATENT APPL	06/	1.) 14/2012
Inventor's Signature Dona Williams		Date Assignme	nt Signed
Inventor's Typed Name		Date Application	n Signed
Inventor's Signature		Date Assignme	ent Signed
Inventor's Typed Name		Date Applicatio	n Signed
Inventor's Signature		Date Assignme	nt Signed
Inventor's Typed Name		Date Applicatio	n Signed
Inventor's Signature	VALUE AND	Date Assignme	nt Signed
Inventor's Typed Name		Date Applicatio	n Signed
Inventor's Signature		Date Assignme	nt Signed
Inventor's Typed Name		Date Application	n Signed
Inventor's Signature		Date Assignmer	nt Signed
Înventor's Typed Name	777700000000000000000000000000000000000	Date Application	n Signed

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RECORDED: 03/03/2015