PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4619478

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LINDA SHERRY	08/07/2015
NIAMH KELLY	07/17/2015
RICHARD J. MCMANUS	07/16/2015
KEVIN RATTIGAN	07/17/2015
JOHN BREEN	07/20/2015

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:	15563098

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.

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

HP INC. **Correspondent Name:**

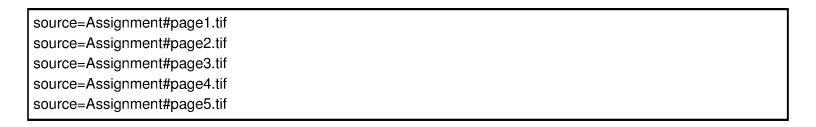
Address Line 1: 3390 E. HARMONY ROAD MS 35 INTELLECTUAL PROPERTY Address Line 2:

FORT COLLINS, COLORADO 80528 Address Line 4:

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DATE SIGNED: 09/29/2017	

Total Attachments: 5

PATENT REEL: 043740 FRAME: 0225



PATENT REEL: 043740 FRAME: 0226 HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

PATENT		

RECORD ID:	84218284

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree, that 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, to a assigns, the entire right, title and interest, including the right of pridentified.	ssign and transfer to HPDC, its successors and ority, in, to and under an application for Patent
INK COMPOSITION	
Filing Date: Applica	tion No.:
and the invention(s) and improvement(s) set forth therein, and any and divisionals, and renewals of and substitutes for said application for a countries thereto which may be granted thereon or therefore; and any Patent.	d all continuations, continuations-in-part (C-I-P's), aid Patent, and any and all other Patent of any
I/we additionally authorize HPDC to file applications in my/our name by HPDC, its successors, assigns, nominees or legal representatives. Patent respectively may be granted, reissued or extended, as fully and enjoyed by me/us had this assignment, and transfer not been made;	to the full end of the term or terms for which said
AND live hereby covenant that I/we have full right to convey the entexecuted and will not execute any agreement in conflict herewith, and litime a request is made, and without undue delay, execute and deliver at perfect the title to said invention(s) or improvement(s), said application a nominees or legal representatives, and I/we agree to communicate to H said invention(s) or improvement(s), said application and said Patent, to papers, to execute all disclaimers and divisionals, continuations, C-I-rightful oaths and declarations, and generally to do everything possible and legal representatives to obtain and enforce, for its or their own bene improvement(s) in any and all countries provided the expenses who cooperation and assistance are paid by HPDC;	I'we further covenant and agree that I/we will, each it such papers as may be necessary or desirable to and said Patent, to HPDC, its successors, assigns, IPDC, or to its nominee, all known facts respecting a testify in any tegal proceedings, to sign all lawful P's, reissue and foreign applications, to make all to aid HPDC, its successors, assigns, nominees sitt, proper patent protection for said invention(s) or
AND I/we hereby authorize and request the official of any country applications as aforesaid, to issue to HPDC, as assignee of the entire invention(s) or improvement(s) which may be issued and granted of accordance with the terms of this assignment.	right, title and interest, any and all Palent for said
I/we further authorize and direct the attorneys of record to inse application for Patent, now identified by the Record ID and title set forth known to them.	
IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and	i seal(s):
inventor's Signature	7/k Aug 15
Winds Ones	tur.
Linda Sherry Inventor's Typed Name	 .
Inventor's Signature	Date
Niamh Kelly	
Inventor's Typed Name	
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PATENT REEL: 043740 FRAME: 0227 HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

PATENT APPLICATION

RECORD ID:	 84218284	

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree, that for good and valuable consideration, the

receipt of which is hereby acknowledged, and in furtherance of DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership hav Texas, (hereinafter HPDC), and to its subsidiaries and affiliates, to as assigns, the entire right, title and interest, including the right of prior entitled:	my/our obligations to HEWLETT-PACKARD ing its principal place of business in Houston, sign and transfer to HPDC, its successors and
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Filing Date: Applicati	
and the invention(s) and improvement(s) set forth therein, and any and divisionals, and renewals of and substitutes for said application for sa countries thereto which may be granted thereon or therefore; and any repatent.	l all continuations, continuations-in-part (C-I-P's), id Patent, and any and all other Patent of any
I/we additionally authorize HPDC to file applications in my/our name by HPDC, its successors, assigns, nominees or legal representatives, to Patent respectively may be granted, reissued or extended, as fully and enjoyed by me/us had this assignment, and transfer not been made;	the full end of the term or terms for which said
AND I/we hereby covenant that I/we have full right to convey the entirexecuted and will not execute any agreement in conflict herewith, and I/we time a request is made, and without undue delay, execute and deliver all perfect the title to said invention(s) or improvement(s), said application are nominees or legal representatives, and I/we agree to communicate to HF said invention(s) or improvement(s), said application and said Patent, to papers, to execute all disclaimers and divisionals, continuations, C-I-P' rightful oaths and declarations, and generally to do everything possible and legal representatives to obtain and enforce, for its or their own benefit improvement(s) in any and all countries provided the expenses which cooperation and assistance are paid by HPDC;	we further covenant and agree that I/we will, each such papers as may be necessary or desirable to not said Patent, to HPDC, its successors, assigns, PDC, or to its nominee, all known facts respecting testify in any legal proceedings, to sign all lawfulls, reissue and foreign applications, to make all to aid HPDC, its successors, assigns, nominees it, proper patent protection for said invention(s) or
AND I/we hereby authorize and request the official of any country applications as aforesaid, to issue to HPDC, as assignee of the entire ri invention(s) or improvement(s) which may be issued and granted on accordance with the terms of this assignment.	ght, title and interest, any and all Patent for said
I/we further authorize and direct the attorneys of record to insert application for Patent, now identified by the Record ID and title set forth at known to them.	
IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and s	seal(s):
Inventor's Signature	Date
Linda Sherry	
Inventor's Typed Name A ambound Kelly Niamh Kelly	Date 17/7/15
Inventor's Typed Name	
Rev 1/2013 (Assignment) Page 1 of 2	

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

PATENT APPLICATION

RECORD ID: ______84218284

ASSIGNMENT OF PATENT APPLIC	CATION (cont.)/
Kilania 1 Pertania	<u> </u>
Inventor's Signature	Date (
Richard J Mcmanus	
Inventor's Typed Name	
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Kevin Rattigan	
Inventor's Tuned Name	
Inventor's Signature	Date
John Breen	
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Page 2 of 2

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

PATENT APPLICATION

Mail Stop 35 Fort Collins, Colorado 80528	RECORD ID: 84218284
	OF PATENT APPLICATION (cont.)
Inventor's Signature	Date
Richard J Memanus	
Inventor's Typed Name	
Las Cattigos Inventor's Signature	
Kevin Rattigan	
Inventor's Typed Name	
Inventor's Signature	Date
John Breen	
Inventor's Typed Name	
Inventor's Signature	Date
Inventor's Typed Name	
Inventor's Signature	Date
Inventor's Typed Name	
Inventor's Signature	Date
Inventor's Typed Name	

Rev 1/2013 (Assignment)

Page 2 of 2

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

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RECORD ID: 84218284

ASSIGNMENT	OF	PATENT	APPLICATION	(cont.)
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nventor's Signature	Date
Richard J Mcmanus	
Inventor's Typed Name	-
Inventor's Signature	Date
Kevin Rattigan	_
Inventor's Typed Name	
fly bree	20/07/2015.
Inventor's Signature	Date
John Breen	_
Inventor's Typed Name	
	Date
Inventor's Signature	Date
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