PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3969104

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GEORGIA KOUTRIKA	12/06/2013
DIMITRA PAPADIMITRIOU	12/09/2013
STEVEN J SIMSKE	12/06/2013

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:	15100918

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.

Correspondent Name: HP INC.

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

Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	84478474
NAME OF SUBMITTER:	ALBA ESCOBAR
SIGNATURE:	/Alba Escobar/
DATE SIGNED:	07/19/2016

Total Attachments: 3

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PATENT 503922451 REEL: 039193 FRAME: 0120

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

Rev 1/ 2013 (Assignment)

PATENT APPLICATION

RECORD ID:	83593518

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 as assigns, the entire right, title and interest, including the right of prior entitled:	sign and transfer to HPDC, its successors and
MATCHING OF AN INPUT DOCUMENT TO DOCUMENTS IN A DOC	CUMENT COLLECTION
Filing Date: Applicati	on No.:
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.	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 aperfect the title to said invention(s) or improvement(s), said application are nominees or legal representatives, and I/we agree to communicate to HP 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 a said Patent, to HPDC, its successors, assigns, PDC, or to its nominee, all known facts respecting testify in any legal proceedings, to sign all lawfuls, 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 rinvention(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):
A CANARA	12/6/13
Inventor's Signature	Date
Georgia Koutrika Inventor's Typed Name	
Inventor's Signature	Date
Dimitra Papadimitriou	
Inventor's Typed Name	

Page 1 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:	83593518

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 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:

assigns, the entire right, title and interest, including the right of prio entitled:	inty, in, to and under an application for Patent
MATCHING OF AN INPUT DOCUMENT TO DOCUMENTS IN A DO	CUMENT COLLECTION
Filing Date: Applicat	ion No.:
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 relatent.	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, t Patent respectively may be granted, reissued or extended, as fully and enjoyed by me/us had this assignment, and transfer not been made;	o 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 enti- executed and will not execute any agreement in conflict herewith, and I/s 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 a nominees or legal representatives, and I/we agree to communicate to HI said invention(s) or improvement(s), said application and said Patent, to papers, to execute all disclaimers and divisionals, continuations, C-I-F 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 whi 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 nd said Patent, to HPDC, its successors, assigns PDC, or to its nominee, all known facts respecting testify in any legal proceedings, to sign all lawfurbs, reissue and foreign applications, to make all to aid HPDC, its successors, assigns, nominees fit, 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 r invention(s) or improvement(s) which may be issued and granted or accordance with the terms of this assignment.	ight, title and interest, any and all Patent for said
I/we further authorize and direct the attorneys of record to inser application for Patent, now identified by the Record ID and title set forth a known to them.	
IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and	seal(s):
Inventor's Signature	- Date
Georgia Koutrika Inventor's Typed Name	-
A	12/09/2013
Inventor's Signature	Date
Dimitra Papadimitriou Inventor's Typed Name	

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HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 36

PATENT APPLICATION

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ASSIGNMENT	OF PATENT APPLICATION	84 (C)	out')		
Steven I. Swire		0	Dec	2013	
inventor's Signature	Date				
Steven J. Simske					
Inventor's Typed Name					
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Inventor's Signature	Date		***********	**********	
Inventor's Typed Name					
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PATENT REEL: 039193 FRAME: 0123

Rev 1/ 2013 (Assignment)