504078927 11/02/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ERIK ORDENTLICH	01/30/2014
RON M. ROTH	01/30/2014

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:	15113890

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	90238719
NAME OF SUBMITTER:	KATHY HUNGSBERG
SIGNATURE:	/Kathy Hungsberg/
DATE SIGNED:	11/02/2016

Total Attachments: 2

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PATENT 504078927 REEL: 040200 FRAME: 0850

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

Rev 1/ 2013 (Assignment)

	APPL		

RECORD ID:	83762922

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

	iliates, to assign and transfer to HPDC, its successors and right of priority, in, to and under an application for Patent
DATA STORING IN MEMORY ARRAYS	
Filing Date: 07/25/2016	Application No.: 15/113890
divisionals, and renewals of and substitutes for said applic	and any and all continuations, continuations-in-part (C-t-P's), cation for said Patent, and any and all other Patent of any and any reissues, or reexaminations, or extensions of said
by HPDC, its successors, assigns, nominees or legal repre-	ny/our name for Patent in any country, to be held and enjoyed sentatives, to the full end of the term or terms for which said as fully and entirely as the same would have been held and made;
executed and will not execute any agreement in conflict here time a request is made, and without undue delay, execute ar perfect the title to said invention(s) or improvement(s), said a nominees or legal representatives, and I/we agree to commusaid invention(s) or improvement(s), said application and said papers, to execute all disclaimers and divisionals, continue rightful paths and declarations, and generally to do everythiand legal representatives to obtain and enforce, for its or the	ivey the entire interest herein assigned, and that I/we have not with, and I/we further covenant and agree that I/we will, each id deliver all such papers as may be necessary or desirable to application and said Patent, to HPDC, its successors, assigns, inicate to HPDC, or to its nominee, all known facts respecting d Patent, to testify in any legal proceedings, to sign all lawful ations, C-I-P's, reissue and foreign applications, to make all ng possible to aid HPDC, its successors, assigns, nominees ir own benefit, proper patent protection for said invention(s) or penses which may be incurred by me/us in lending such
applications as aforesaid, to issue to HPDC, as assignee of	any country or countries whose duty it is to issue patents on the entire right, title and interest, any and all Patent for said granted on or as a result of the application aforesaid, in
	ord to insert the filing date and application number of said le set forth above, as soon as the same shall have been made
IN WITNESS WHEREOF, I/we hereunto set my/our h	and(s) and seal(s):
1 On Carpella	1/30/2014
Inventor's Signature	Date /
Enk Ordentlich	
Inventor's Typed Name	
Inventor's Signature	Date
	avec.
Ron M Roth Inventor's Typed Name	

Page 1 of

PATENT REEL: 040200 FRAME: 0851 HEYA ETT PACKARD COMPANY minisectual Property Adminiserator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80526

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RECORD ID: 83762922

ASSIGNMENT OF PATENT APPLICATION

IWe, the undersigned (each) have agreed and hereby agree, that for good and valuable consideration, the receipt of which is hereby advicemented and in turnherance of mylour obligations to HEVILETT-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 entitles.

DATA STORING IN MEMORY ARRAYS

Filing Date: 07/25/2	2016	Application No.:	15/113890	
and the invention(s) and	marovententist set		************	
divisionals, and renewals				
countries thereto which o				
Patent.	5			

We additionally suthorize 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 coverant 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 coverant and agree that I/we will each time a request is made, and without undue detay, 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 melus in lending such cooperation and assistance are paid by HPDC;

AND livel hereby suthorize and request the official of any country or countries whose duty it is to issue patents on applications as aforesed, to issue to HPDC, as assigned of the entire right, title and interest, any end 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.

Owe 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	Dan:	
Erik Ondentilidi		
iovantor's Typed Name	Jan 30 2014	
Inventor's Signature	Date	***********
Ron M Roth Inventor's Typed Name		
Rev V 2018 (Assignment)	Page 1 of	

PATENT REEL: 040200 FRAME: 0852