504092754 11/11/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4139422

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RUDY WIDIAMAN	07/28/2014
CARLA ALI-NAPO	07/28/2014
PAUL ROBERTO LALINDE	07/28/2014

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:	15309523

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:	84555026	
NAME OF SUBMITTER:	DEBBIE BORLAND	
SIGNATURE:	/Debbie Borland/	
DATE SIGNED: 11/11/2016		
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 6

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PATENT 504092754 REEL: 040291 FRAME: 0165

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PATENT REEL: 040291 FRAME: 0166

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

	02052524
RECORD ID:	83953634

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each), for good and valuable consideration, the receipt of which is hereby acknowledged,

Limited Partne subsidiaries ar	ership having its principal place of affiliates, agree to assign and tra	WLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas of business in Houston, Texas, (hereinafter HPDC), and to its insfer and hereby assign and transfer to HPDC, its successors and ing the right of priority, in, to and under an application for Patent
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Filing Date:	November 8, 2016	
divisionals, and	on(s) and improvement(s) set forth I renewals of and substitutes for sa	therein, and any and all continuations, continuations-in-part (C-I-P's), aid application for said Patent, and any and all other Patent of any therefore; and any reissues, or reexaminations, or extensions of said
by HPDC, its s Patent respecti	uccessors, assigns, nominees or leg	tions in my/our name for Patent in any country, to be held and enjoyed pal representatives, to the full end of the term or terms for which said dended, as fully and entirely as the same would have been held and not been made;
executed and vime a request perfect the title nominees or lessaid invention(in papers, to exergitiful oaths a and legal represents)	will not execute any agreement in cor is made, and without undue delay, ex- to said invention(s) or improvement(gal representatives, and I/we agree to s) or improvement(s), said application cute all disclaimers and divisionals, and declarations, and generally to do sentatives to obtain and enforce, for	ght to convey the entire interest herein assigned, and that I/we have not inflict herewith, and I/we further covenant and agree that I/we will, each tecute and deliver all such papers as may be necessary or desirable to s), said application and said Patent, to HPDC, its successors, assigns, o communicate to HPDC, or to its nominee, all known facts respecting a and said Patent, to testify in any legal proceedings, to sign all lawful continuations, C-I-P's, reissue and foreign applications, to make all everything possible to aid HPDC, its successors, assigns, nominees its or their own benefit, proper patent protection for said invention(s) or if the expenses which may be incurred by me/us in lending such
applications as invention(s) or	aforesaid, to issue to HPDC, as as	flicial of any country or countries whose duty it is to issue patents on signee of the entire right, title and interest, any and all Patent for said ued and granted on or as a result of the application aforesaid, in
	Patent, now identified by the Record	s of record to insert the filing date and application number of said ID and title set forth above, as soon as the same shall have been made
INVITNE	SS WHEREOF, I/we hereunto set r	ny/our hand(s) and seal(s):

IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):			
War and the same of the same o		07/28/4	
Inventor's Signature		Date	
Rudy Widiaman Inventor's Typed Name			
Inventor's Signature		Date	
Carla Ali-Napo		_ .	
Inventor's Typed Name			
Rev 5/ 2014 (Assignment)	Page 1 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	REC	ORD ID:	83953634
ASSIGNMENT OF PATENT APPLICATION (cont.)			
Inventor's Signature		Date	
Paul Roberto Lalinde Inventor's Typed Name			
e.			
Inventor's Signature		Date	
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HEWLETT-PACKARD COMPANY Intellectual Property Administrator		PATENT APPLICATION
3404 E. Harmony Road	RECORD ID:	83953634
Mail Stop 35 Fort Collins, Colorado 80528	1520010101	
	T OF PATENT APPLICATION	
I/We, the undersigned (each), for good and very and in furtherance of my/our obligations to His Limited Partnership having its principal place subsidiaries and affiliates, agree to assign and transitions, the entire right, title and interest, includentitled:	EWLETT-PACKARD DEVELOPM of business in Houston, Texas, ansfer and hereby assign and tran	ENT COMPANY, L.P., a Texas (hereinafter HPDC), and to its sfer to HPDC, its successors and
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Filing Date: November 8, 2016	Application No.:	15/309523
and the invention(s) and improvement(s) set forth divisionals, and renewals of and substitutes for s countries thereto which may be granted thereon of Patent.	aid application for said Patent, and	d any and all other Patent of an
I/we additionally authorize HPDC to file applica by HPDC, its successors, assigns, nominees or le Patent respectively may be granted, reissued or e enjoyed by me/us had this assignment, and transfer	gal representatives, to the full end o xtended, as fully and entirely as the	of the term or terms for which said
AND I/we hereby covenant that I/we have full ri executed and will not execute any agreement in co time a request is made, and without undue delay, e perfect the title to said invention(s) or improvement nominees or legal representatives, and I/we agree said invention(s) or improvement(s), said application papers, to execute all disclaimers and divisionals rightful oaths and declarations, and generally to drand legal representatives to obtain and enforce, for improvement(s) in any and all countries provide cooperation and assistance are paid by HPDC;	inflict herewith, and I/we further coverage the content of the content of the communicate to HPDC, or to its read said Patent to communicate to HPDC, or to its read said Patent, to testify in any large continuations, C-I-P's, reissue and everything possible to aid HPDC, its or their own benefit, proper pater	enant and agree that I/we will, each is may be necessary or desirable to to HPDC, its successors, assigns nominee, all known facts respectinglegal proceedings, to sign all lawfuld foreign applications, to make a lits successors, assigns, nominee not protection for said invention(s) or
AND I/we hereby authorize and request the capplications as aforesaid, to issue to HPDC, as as invention(s) or improvement(s) which may be issuecordance with the terms of this assignment.	ssignee of the entire right, title and i	nterest, any and all Patent for said
I/we further authorize and direct the attorner application for Patent, now identified by the Record known to them.	ys of record to insert the filing dat ID and title set forth above, as soon	te and application number of sai as the same shall have been mad
IN WITNESS WHEREOF, I/we hereunto set I	my/our hand(s) and seal(s):	
Inventor's Signature	Date	

Inventor's Signature

Rudy Widiaman
Inventor's Typed Name

Aula Wi-Vay
Inventor's Signature

Carla Ak-Napo
Inventor's Typed Name

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Page 1 of 2

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

PATENT APPLICATION

Mail Stop 35	RECO	ORD ID:	83953634
Fort Collins, Colorado 80528	 SSIGNMENT OF DATENT ADDITION	ATION (con	.4 \
A	SSIGNMENT OF PATENT APPLIC	ATION (COI	ii.)
Inventor's Signature		Date	
Paul Roberto Lalinde			
Inventor's Typed Name			
Inventor's Signature		Date	
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Inventor's Typed Name			
Inventor's Signature		Date	
Inventor's Typed Name			

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

RECORD ID:	83953634
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ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each), 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

subsidiaries and assigns, the entitled:	hip having its principal place of busine affiliates, agree to assign and transfer and re right, title and interest, including the right.	l hereby assign and tra	nsfer to HPDC, its successors and
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Filing Date:	November 8, 2016	Application No.:	15/309523
divisionals, and n	(s) and improvement(s) set forth therein, a enewals of and substitutes for said applica which may be granted thereon or therefore;	ation for said Patent, a	nd any and all other Patent of any
by HPDC, its suc Patent respective	ally authorize HPDC to file applications in my cessors, assigns, nominees or legal repress ly may be granted, reissued or extended, a had this assignment, and transfer not been o	entatives, to the full end is fully and entirely as the	of the term or terms for which said
executed and will time a request is a perfect the title to nominees or legal said invention(s) of papers, to execu- rightful oaths and and legal represes improvement(s) is	reby covenant that I/we have full right to con- not execute any agreement in conflict herev- made, and without undue delay, execute and said invention(s) or improvement(s), said ag- i representatives, and I/we agree to commun- or improvement(s), said application and said te all disclaimers and divisionals, continual declarations, and generally to do everythin intatives to obtain and enforce, for its or their in any and all countries provided the exp- assistance are paid by HPDC;	with, and I/we further covorted to the same and said Pater all such papers oplication and said Pater nicate to HPDC, or to its I Patent, to testify in anytions, C-I-P's, reissue and possible to aid HPDC own benefit, proper pater said said the said HPDC own benefit, proper pater said the sai	renant and agree that I/we will, each as may be necessary or desirable to it, to HPDC, its successors, assigns, nominee, all known facts respecting legal proceedings, to sign all lawful nd foreign applications, to make all its successors, assigns, nominees ent protection for said invention(s) or
applications as af invention(s) or in	ereby authorize and request the official of a foresaid, to issue to HPDC, as assignee of approvement(s) which may be issued and the terms of this assignment.	the entire right, title and	interest, any and all Patent for said
I/we further application for Paknown to them.	authorize and direct the attorneys of recol tent, now identified by the Record ID and title	rd to insert the filing do set forth above, as soon	ate and application number of said n as the same shall have been made
IN WITNESS	S WHEREOF, I/we hereunto set my/our ha	and(s) and seal(s):	
Inventor's Signatur	€	Date	
Rudy Widiaman			
inventor's Typed N	ame		
Inventor's Signatur	e	Date	
Carla Ali-Napo			
inventor's Typed N	ame		

Page 1 of 2

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35

PATENT APPLICATION

3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528	RECORD ID: 83953634
Assigni Amblinde	MENT OF PATENT APPLICATION (cont.) Ø7/28/14
nventor's Signature Paul Roberto Lalinde nventor's Typed Name	Date
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Rev 5/ 2014 (Assignment)

RECORDED: 11/11/2016

PATENT REEL: 040291 FRAME: 0172