505667527 09/11/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5714334

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ARMAN ALIMIAN	09/23/2014
DIOGO STRUBE DE LIMA	09/23/2014
BRADLEY NEAL SUGGS	09/23/2014
IMMANUEL AMO	09/21/2014
NICHOLAS P LYONS	09/23/2014
EVAN WILSON	09/24/2014
RUTH ANN LIM	09/23/2014

RECEIVING PARTY DATA

Name:	Hewlett-Packard Development Company, L.P.
Street Address:	10300 Energy Drive
City:	Spring
State/Country:	TEXAS
Postal Code:	77389

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16364912

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)360-4450 **Email:** ipa.mail@hp.com

Correspondent Name: HP INC.

Address Line 1: 3390 E. HARMONY ROAD MS 35
Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	85707114
NAME OF SUBMITTER:	ALBA ESCOBAR
SIGNATURE:	/ALBA ESCOBAR/
DATE SIGNED:	09/11/2019

PATENT REEL: 050347 FRAME: 0430

Total Attachments: 6 source=83954956-Assignment#page1.tif source=83954956-Assignment#page2.tif source=83954956-Assignment#page3.tif source=83954956-Assignment#page4.tif

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PATENT REEL: 050347 FRAME: 0431 HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

PATENT APPLICATION

RECORD ID:	83954956

ASSIGNMENT OF PATENT APPLICATION

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and in furtherance of my/ Limited Partnership having	our obligations to HEWLE j its principal place of budgeree to assign and transfe	FT-PACKARD DEVEL siness in Houston, T and hereby assign an	ceipt of which is hereby acknowledged, LOPMENT COMPANY, L.P., a Texas exas, (hereinafter HPDC), and to its d transfer to HPDC, its successors and to and under an application for Patent
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applications as aforesaid to	o issue to HPDC, as assignent(s) which may be issued	of the entire right, title	atries whose duty it is to issue patents on e and interest, any and all Patent for said a result of the application aforesaid, in
I/we further authorize application for Patent, now i known to them.	and direct the attorneys of dentified by the Record ID ar	record to insert the fil If title set forth above, a	ing date and application number of said s soon as the same shall have been made
	F, I/we hereunto set my/o	ır hand(s) and seal(s):	
Mhiir			09/23/2014
Inventor's Signature		Date	<u> </u>
Arman	Alimian		
First/Middle Name	Last Name		
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Inventor's Signature		Date	
Diogo Strube de	Lima		
First/Middle Name	Last Name		
Rev 8/2014 (Assignment)	P	ge 1 of 2	

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

PATENT APPLICATION

83954956

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Inventor's Signature		Date	
Bradley Neal	Suggs		
First/Middle Name	Last Name		
Inventor's Signature		 Date	
Immanuel First/Middle Name	Amo Last Name	<u></u>	
<u> </u>	Lus	9 /	23/2014
Inventor's Signature	T	Date	
Nicholas P	Lyons		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Evan	Wilson		
First/Middle Name	Last Name		
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Inventor's Signature	U from	Date	
Ruth Ann	Lim		
First/Middle Name	Last Name	· · · · · · · · · · · · · · · · · · ·	
Inventor's Signature	40.40.00.00.00.00.00.00.00.00.00.00.00.0	Date	
First/Middle Name	Last Name		

Page 2 of 2

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

Rev 8/2014 (Assignment)

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RECORD ID:	83954956

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

Limited Partnership h subsidiaries and affilial	es, agree to assign and tra	of business in Houston, Texas, (hereinafter HPDC), and to its nsfer 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:		Application No.:
divisionals, and renewa	als of and substitutes for s	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 successo Patent respectively ma	rs, assigns, nominees or le	tions in my/our name for Patent in any country, to be held and enjoyed gal representatives, to the full end of the term or terms for which said ttended, as fully and entirely as the same would have been held and not been made;
executed and will not e time a request is made, perfect the title to said in nominees or legal represaid invention(s) or imp papers, to execute all rightful oaths and declar and legal representative	xecute any agreement in co and without undue delay, ex- nvention(s) or improvement esentatives, and I/we agree rovement(s), said application disclaimers and divisionals arations, and generally to do es to obtain and enforce, for and all countries provide	ght to convey the entire interest herein assigned, and that I/we have not afflict herewith, and I/we further covenant and agree that I/we will, each excute 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 and said Patent, to testify in any legal proceedings, to sign all lawfu 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 the expenses which may be incurred by me/us in lending such
applications as aforesa	id, to issue to HPDC, as as ement(s) which may be iss	fficial of any country or countries whose duty it is to issue patents or 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, ir
I/we further autho application for Patent, r known to them.	rize and direct the attorney low 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
IN WITNESS WHE	REOF, I/we hereunto set r	ny/our hand(s) and seal(s):
Inventor's Signature		Date
Arman	Alimian	
First/Middle Name	Last Name	
Inventor's Signature		Date
Diogo Strube de	- Lima -	
First/Middle Name	Last Name	

PATENT REEL: 050347 FRAME: 0434

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HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Colles Colorado 89528

PATENT APPLICATION

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Α,	SSIGNMENT OF PATENT APPLI	owners (some)	
Inventor's Signature		Date	
Plus all as a N and	Evene		
Bradley Neal First/Middle Name	Suggs Last Name		
PISOMIGGIE Maine	Lastranie		
Land Land		3611. 21,	2014
Inventor's Signature		Date	
Immanuel	Amo		
First/Middle Name	Last Name		
(
Inventor's Signature		Date	
Nicholas P	Lyons		
First/Middle Name	Last Name		
1. 1950 CHARGE, LEATING			
Inventor's Signature		Date	4,000,000,000,000,000,000,000,000,000,0
Evan	Wilson		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Pr3 6	6.3		
Ruth Ann	Lim		
First/Middle Name	East Name		
Inventor's Signature		Date	
er e			
First/Middle Name	Last Name		

Page 2 of 2

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

Rev 8/2014 (Assignment)

RECORD ID:	83954956
RECORD ID:	83954956

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 affiliates	s, agree to assign and transf	pusiness in Houston, Texas, (hereinafter HPDC), and to its er and hereby assign and transfer to HPDC, its successors and the right of priority, in, to and under an application for Patent
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Filing Date:		Application No.:
divisionals, and renewals	of and substitutes for said	rein, and any and all continuations, continuations-in-part (C-I-P's), application for said Patent, and any and all other Patent of any refore; and any reissues, or reexaminations, or extensions of said
by HPDC, its successors Patent respectively may	assigns, nominees or legal	s in my/our name for Patent in any country, to be held and enjoyed representatives, to the full end of the term or terms for which said ded, as fully and entirely as the same would have been held and been made;
executed and will not exe time a request is made, a perfect the title to said inv nominees or legal repress said invention(s) or impro- papers, to execute all di- rightful oaths and declars and legal representatives	ecute any agreement in conflicted without undue delay, executed without undue delay, executention(s) or improvement(s), entatives, and I/we agree to covernent(s), said application at sclaimers and divisionals, coations, and generally to do evite obtain and enforce, for its and all countries provided the	to convey the entire interest herein assigned, and that I/we have not therewith, and I/we further covenant and agree that I/we will, each ate and deliver all such papers as may be necessary or desirable to said application and said Patent, to HPDC, its successors, assigns ommunicate to HPDC, or to its nominee, all known facts respecting ad said Patent, to testify in any legal proceedings, to sign all lawfuntinuations, C-I-P's, reissue and foreign applications, to make all erything possible to aid HPDC, its successors, assigns, nominees or their own benefit, proper patent protection for said invention(s) one expenses which may be incurred by me/us in lending such
applications as aforesaid	, to issue to HPDC, as assignent(s) which may be issued	al of any country or countries whose duty it is to issue patents or see of the entire right, title and interest, any and all Patent for said and granted on or as a result of the application aforesaid, in
I/we further authoriz application for Patent, now known to them.	ze and direct the attorneys on widentified by the Record ID a	of record to insert the filing date and application number of said and title set forth above, as soon as the same shall have been made
IN WITNESS WHER	EOF, I/we hereunto set my/	our hand(s) and seal(s):
Inventor's Signature		Date
Arman	Alimian	
First/Middle Name	Last Name	
Inventor's Signature		Date
Diogo Strube de	- Lima ·	
First/Middle Name	Last Name	

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PATENT REEL: 050347 FRAME: 0436 HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road

PATENT APPLICATION

Mail Stop 35 Fort Collins, Colorado 8052	8	RECORD ID:	83954956
	ASSIGNMENT OF PATENT AP	PLICATION (con	t.)
Inventor's Signature		Date	
Bradley Neal	Suggs		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Immanuel	Amo		
First/Middle Name	Last Name		
Inventor's Signature		Pote	
		Date	
Nicholas P First/Middle Name	Lyons Last Name		
Inventor's Signature		Date 9	1/24/14
Evan	Wilson		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Ruth Ann	Lim		
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name		
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RECORDED: 09/11/2019