505286446 01/18/2019

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5333221

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KEITH JARIABKA	04/18/2016
KYLE LOUCKS	04/18/2016
MARK GROENENBOOM	04/18/2016

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
PCT Number:	US2016028061

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: 5417158443 Email: ipa.mail@hp.com

HP INC. **Correspondent Name:**

Address Line 1: 3390 E. HARMONY ROAD

Address Line 2: MAIL STOP 35

Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	84976383
NAME OF SUBMITTER:	ANN WEBSTER JESUS
SIGNATURE:	/Ann Webster Jesus/
DATE SIGNED:	01/18/2019

Total Attachments: 3

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3390	E. Harmony Road
Mail	Stop 35
Fort	Collins, Colorado 80528

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RECORD ID:	84421984
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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 Limited Partnership having its principal place of business in Houston, Texas, (hereinafter HPDC), and to its subsidiaries and affiliates, agree to assign and transfer and hereby 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.

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Filing Date:	April 18, 2016	Application No.:	PCT/US2016/028061

and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for said Patent, and any and all other Patent of any countries thereto which may be granted thereon or therefore; and any reissues, or reexaminations, or extensions of said Patent.

I/we additionally authorize HPDC to file applications in my/pur 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 covenant 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 covenant and agree that I/we will, each time a request is made, and without undue delay, 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 me/us in lending such cooperation and assistance are paid by HPDC;

AND I/we hereby authorize and request the official of any country or countries whose duty it is to issue patents on applications as aforesaid, to issue to HPDC, as assignee of the entire right, title and interest, any and 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.

I/we 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 WHER	EOF, I/we hereunto se	t my/our hand(s) ar	nd seal(s):	
2/			4/18/2016	
Inventor's Signature	Marco Constitution of the		Date	
Keith	Jariabka			
First/Middle Name	Last Name			
Inventor's Signature			Date	
Kyle	Loucks			
First/Middle Name	Last Name			
Rev 8/2014 (Assignment)		Page 1 of		

PATENT REEL: 048060 FRAME: 0219

HP Inc.	Ť
3390 E. Harmony Road	-
Mail Stop 35	
Fort Collins, Colorado 80528	3

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ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each), for good and valuable cor and in furtherance of my/our obligations to HEWLETT-P. Limited Partnership having its principal place of busines subsidiaries and affiliates, agree to assign and transfer and assigns, the entire right, title and interest, including the rig entitled:	is in Houston, Texas, (hereinafter HPDC), and to its hereby assign and transfer to HPDC, its successors and
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Filing Date:	Application No.:
and the invention(s) and improvement(s) set forth therein, an divisionals, and renewals of and substitutes for said applicat countries thereto which may be granted thereon or therefore; Patent.	tion for said Patent, and any and all other Patent of any
We additionally authorize HPDC to file applications in mylby HPDC, its successors, assigns, nominees or legal representation respectively may be granted, reissued or extended, as enjoyed by me/us had this assignment, and transfer not been medically assignment.	fully and entirely as the same would have been held and
AND I/we hereby covenant that I/we have full right to convexecuted and will not execute any agreement in conflict herew time a request is made, and without undue delay, execute and perfect the title to said invention(s) or improvement(s), said approximation or legal representatives, and I/we agree to communicate invention(s) or improvement(s), said application and said papers, to execute all disclaimers and divisionals, continuation rightful oaths and declarations, and generally to do everything plegal representatives to obtain and enforce, for its or their own improvement(s) in any and all countries provided the expenses and assistance are paid by HPDC;	deliver all such papers as may be necessary or desirable to olication and said Patent, to HPDC, its successors, assigns, cate to HPDC, or to its nominee, all known facts respecting Patent, to testify in any legal proceedings, to sign all lawful ons, C-I-P's, reissue and foreign applications, to make all ossible to aid HPDC, its successors, assigns, nominees and on benefit, proper patent protection for said invention(s) or
AND I/we hereby authorize and request the official of an applications as aforesaid, to issue to HPDC, as assignee of trinvention(s) or improvement(s) which may be issued and g accordance with the terms of this assignment.	
I/we further authorize and direct the attorneys of record application for Patent, now identified by the Record ID and title known to them.	I to insert the filing date and application number of said set forth above, as soon as the same shall have been made
IN WITNESS WHEREOF, I/we hereunto set my/our han	d(s) and seal(s):
Inventor's Signature	Date
Keith Jariabka	
First/Middle Name Last Name	
XI Sh	H/18/zall
inventor's Signature	Date / */
Kyle Loucks	
First/Middle Name Last Name	**************************************
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	ASSIGNMENT OF PA	TENT APPLICATION (cont	.)
			3/2016
Inventor's Signature	1	Date Date	3/ <i>3</i> 2/6
Mark	Groenenboom		
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name		
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