PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5478359

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
STANLEY J. WANG	10/06/2015
TERRY MCMAHON	10/06/2015
MOHAMMED S. SHAARAWI	10/06/2015
DONALD W. SCHULTE	10/06/2015

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:	16354588

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.

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Correspondent Name: HP INC.

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

ATTORNEY DOCKET NUMBER:	85696025
NAME OF SUBMITTER:	JULIA CHURCH DIERKER
SIGNATURE:	/Julia Church Dierker, Reg. No. 33368/
DATE SIGNED:	04/17/2019

Total Attachments: 2

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PATENT REEL: 048908 FRAME: 0570 505431559

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

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RECORD ID:	84345354
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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 ď αt

supsidialies at	ru annates, agre	e to assign and tra	ansfer and her	eby assign and	cas, (hereinafter HPDC), and to its transfer to HPDC, its successors and and under an application for Patent
ISOLATING F	AILED RESISTO)RS			
Filing Date:	March 15, 201	9	Др	plication No.:	16/354,588
divisionals, and	i renewais or an	a substitutes for si	aid abblication	for said Patent	tuations, continuations-in-part (C-I-P's) and any and all other Patent of any r reexaminations, or extensions of said
Patent respecti	uccessors, assigi vely may be grar	is, nominees or lea	gai representati ktended, as full	ives, to the full e lv and entirely as	in any country, to be held and enjoyed and of the term or terms for which said the same would have been held and
fime a request in perfect the title nominees or leg said invention(s papers, to exect rightful oaths are and legal represemptovement(s)	nin not execute and with to said invention (gal representative) or improvement bute all disclaime and declarations, of sentatives to obta	ry agreement in cor- out undue delay, ex- s, or improvement(s, and I/we agree to (s), said application rs and divisionals, and generally to do in and enforce, for countries provided	offict herewith, recute and deli- s), said applicate or communicate and said Pate continuations, everything po- its or their own	and I/we further over all such pape tion and said Pa to HPDC, or to ent, to testify in a C-I-P's, reissue ssible to aid HPI benefit proper	herein assigned, and that I/we have not covenant and agree that I/we will, each is as may be necessary or desirable to tent, to HPDC, its successors, assigns, its nominee, all known facts respecting my legal proceedings, to sign all lawful and foreign applications, to make all DC, its successors, assigns, nominees attent protection for said invention(s) or a incurred by me/us in lending such
invention(s) or	aloresalo, to issu	e to HPDC, as ass which may be isst	signee of the e	ntire noht title a	s whose duty it is to issue patents on nd interest, any and all Patent for said result of the application aforesaid, in
I/we further application for P known to them.	r authorize and atent, now identif	direct the attorneys led by the Record li	s of record to D and title set f	insert the filing orth above, as so	date and application number of said on as the same shall have been made
IN WITNES	S WHEREOF, I/v	ve hereunto set m	ıy/our hand(s)	and seal(s):	
Inventor's Signati	Q_ \	Wang			16/2015
Stanley J.	$\mathcal{O}(\mathcal{O})$	Wang		. 4. 4. 4.	
First/Middle Name		Last Name	*· · · · · · · · · · · · · · · · · · ·		
		<u> </u>		,	0/6/2015
Inventor's Signatu	re			Date	9/6/2015
Terry		McMahon			
First/Middle Name		Last Name			
Rev 8/2014 (Assignmen	nt)		Page 1 of 2		

PATENT REEL: 048908 FRAME: 0571 HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35

PATENT APPLICATION

Fort Collins, Colorado 80528	8	RECORD ID:	84345354
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Inventor's Signature	· · · · · · · · · · · · · · · · · · ·	/ (6 - 0 Date	6-2015
		Date	
Mohammed S.	Shaarawi	<u> </u>	
First/Middle Name	Last Name		
Day 2/	4	10-5-	-2015
Inventor's Signature		Date	
Donald W.	Schulte		
First/Middle Name	Last Name	***************************************	
Inventor's Signature			
myerial a Olgranica		Date	
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RECORDED: 04/17/2019