PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4871569

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the CORRESPONDENT NAME AND ADDRESS previously recorded on Reel 037591 Frame 0080. Assignor(s) hereby confirms the CORRESPONDENT NAME IS HP INC. AND ADDRESS IS 3390 E. HARMONY ROAD MS 35, INTELLECTUAL PROPERTY, FORT COLLINS, COLORADO 80528

CONVEYING PARTY DATA

Name	Execution Date
AMY PUI YEE WAN	01/20/2016
DAN R. DWYER	01/22/2016

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:	29552559

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)715-8443 **Email:** ipa.mail@hp.com

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: 84436184

NAME OF SUBMITTER: COLLINS N. MBA-JONAS, III

SIGNATURE: /Collins N. Mba-Jonas, III/

DATE SIGNED: 03/19/2018

Total Attachments: 4

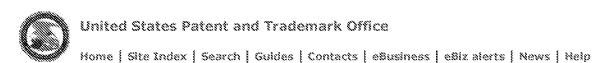
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PATENT REEL: 045628 FRAME: 0683

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
AMY PUI YEE WAN	01/20/2016
DAN R. DWYER	01/22/2016

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:	29552559

CORRESPONDENCE DATA

Fax Number:

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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: MEWEFT-PACKARD-ENTERPRISE HPINC.

Address Line 1: 3464-E-HARMONY-ROAD-MO-79- 3390 E. HARMONY ROAD MS 35, INTELLECTUAL PROPERTY

PATENT

REEL: 045628 FRAME: 0685

Address Line 4: FORT-COLLING; COLORADO 80528 FORT COLLINS, COLORADO 80528		
ATTORNEY DOCKET NUMBER:	84436184	
NAME OF SUBMITTER:	COLLINS N. MBA-JONAS, III	
Signature:	/Collins N. Mba-Jonas, III/	
Date:	01/27/2016	
Total Attachments: 2 source=Assignment#page1.tif source=Assignment#page2.tif		
RECEIPT INFORMATION		
EPAS ID: PAT371234 Receipt Date: 01/27/2016		

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PATENT REEL: 045628 FRAME: 0686

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

First/Middle Name

Rev 8/2014 (Assignment)

Last Name

HP Inc. 3390 E. Harmony Road			PATENT APPLICATION
Mail Stop 35		pennan in	84436184
Fort Collins, Colorado 80528		RECORD ID:	04420104
and in furtherance of my Limited Partnership having subsidiaries and affiliates,	(each), for good and vai //our obligations to HE\ ng its principal place o agree to assign and trai	OF PATENT APPLICATION luable consideration, the receipt of WLETT-PACKARD DEVELOPMS of business in Houston, Texas, asfer and hereby assign and transing the right of priority, in, to and	ENT COMPANY, L.P., a Texas (hereinafter HPDC), and to its sfer to HPDC, its successors and
Filing Date: Januar	y 22, 2016	Application No.: 29/	552,559
divisionals, and renewals	of and substitutes for sa	herein, and any and all continuation id application for said Patent, and therefore; and any reissues, or ree	ons, continuations-in-part (C-I-P's) I any and all other Patent of any
by HPDC, its successors, a	assigns, nominees or lega agranted, reissued or ext	ons in my/our name for Patent in a al representatives, to the full end o anded, as fully and entirely as the of been made;	of the term or terms for which said
executed and will not executime a request is made, and perfect the title to said invenominees or legal represensaid invention(s) or improve papers, to execute all discrightful oaths and declaratio legal representatives to ob-	ite any agreement in conformant in conformant of the second of the secon	nt to convey the entire interest here flict herewith, and I/we further cove scute and deliver all such papers at), said application and said Patent, ocommunicate to HPDC, or to its n and said Patent, to testify in any I continuations, C-I-P's, reissue and rerything possible to aid HPDC, its roor their own benefit, proper patent expenses which may be incurred by	nant and agree that I/we will, each is may be necessary or desirable to to HPDC, its successors, assigns ominee, all known facts respecting egal proceedings, to sign all lawful foreign applications, to make all successors, assigns, nominees and protection for said invention(s) or
applications as aforesaid, t	o issue to HPDC, as ass nt(s) which may be issu	icial of any country or countries wi ignee of the enlire right, title and is ed and granted on or as a resu	nterest, any and all Patent for said
		of record to insert the filing dat 3 and title set forth above, as soon	
IN WITNESS WHERE	DF, I/we hereunto set m	y/our hand(s) and seal(s):	
Callet		Ö	Jan 2016
Inventor's Signature	<u> </u>	Date	***************************************
Amy Pui Yee	Wan		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Dan R.	Dwver		

Page 1 of 1

PATENT

HP Inc. 3390 E. Harmony Road Mail Stop 35 Fort Collins, Cotorado 80528

Rev 8/2014 (Assignment)

RECORDED: 03/19/2018

PA	TENT	APPI	ICA	TION

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each), for good and valuable consideration and in furtherance of my/our obligations to HEWLETT-PACKARD Limited Partnership having its principal place of business in Ho subsidiaries and affiliates, agree to assign and transfer and hereby a assigns, the entire right, title and interest, including the right of pricentitled:	D DEVELOPMENT COMPANY, L.P., a Texas uston, Texas, (hereinafter HPDC), and to its issign and transfer to HPDC, its successors and
Printer	
Filing Date: 22, 2016 Applica	29/552,559 tion No.:
and the invention(s) and improvement(s) set forth therein, and any ardivisionals, and renewals of and substitutes for said application for scountries thereto which may be granted thereon or therefore; and any Patent.	nd all continuations, continuations-in-part (C-I-P's), aid Patent, and any and all other Patent of any
I/we additionally authorize HPDC to file applications in my/our name by HPDC, its successors, assigns, nominees or legal representatives, Patent respectively may be granted, reissued or extended, as fully and enjoyed by me/us had this assignment, and transfer not been made;	to the full end of the term or terms for which said
AND I/we hereby covenant that I/we have full right to convey the en executed and will not execute any agreement in conflict herewith, and I time a request is made, and without undue delay, execute and deliver at perfect the title to said invention(s) or improvement(s), said application anominees or legal representatives, and I/we agree to communicate to H said invention(s) or improvement(s), said application and said Patent, to papers, to execute all disclaimers and divisionals, continuations, C-I-rightful oaths and declarations, and generally to do everything possible to legal representatives to obtain and enforce, for its or their own benefit improvement(s) in any and all countries provided the expenses which may and assistance are paid by HPDC;	I'we further covenant and agree that I/we will, each ill such papers as may be necessary or desirable to and said Patent, to HPDC, its successors, assigns IPDC, or to its nominee, all known facts respecting to testify in any legal proceedings, to sign all lawfu P's, reissue and foreign applications, to make all to aid HPDC, its successors, assigns, nominees and it, proper patent protection for said invention(s) or
AND I/we hereby authorize and request the official of any country applications as aforesaid, to issue to HPDC, as assignee of the entire invention(s) or improvement(s) which may be issued and granted of accordance with the terms of this assignment.	right, title and interest, any and all Patent for said
I/we further authorize and direct the attorneys of record to inse application for Patent, now identified by the Record ID and title set forth known to them.	
IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and	i seal(s):
Inventor's Signature	Date
Amy Pui Yee Wan	
First/Middle Name Last Name	-
Inventor's Signature	Date 22, 2016
Dan R. Dwyer First/Middle Name Last Name	-
First/Middle Name Last Name	

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