# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
CHIEN-HUA CHEN	07/14/2016
MICHAEL W. CUMBIE	07/14/2016
DEVIN ALEXANDER MOUREY	07/14/2016

## **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:	16097460

## **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: 85041101

NAME OF SUBMITTER: STEVEN L. NICHOLS

SIGNATURE: /Steven L. Nichols/

DATE SIGNED: 10/29/2018

#### **Total Attachments: 4**

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

First/Middle Name

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#### PATENT APPLICATION

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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: **PLURALITY OF FILTERS** Application No.: Filling Date: 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/our 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 caths 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 WHEREOF, I/we hereunto set my/our hand(s) and seal(s): Inventor's Signature Chien-Hua Chen First/Middle Name Last Name Date Inventor's Signature Michael W. Cumble

Page 1 of 2

Last Name

HP Inc.
3360 E. Harmony Road
Mail Stop 35
Fort Collins, Colorado 80526

Michael W.

First/Middle Norne

Flora SV2014 (Assignament)

Cumbie

Last Name

HP Inc.			PATENT APPLICATION
3390 E. Harmony Road Mail Stop 35			
Fort Collins, Cotorado 80526		RECORD ID:	84490191
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and in furtherance of my: Limited Partnership havin subsidiaries and affiliates, :	(each), for good and valu four obligations to HEV g its principal place of agree to assign and tran-	iable consideration, the receipt of AETT-PACKARD DEVELOPME business in Houston, Texas, i sier and hereby sesign and trans g the right of priority, in, to and	NT COMPANY, L.P., a Texas hareinafter HPDC), and to its far to HPDC, its successors and
PLURALITY OF FILTERS			
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divisionals, and renewals o	i and substitutes for said	erein, and any and all continuation application for eald Patent, and erefore; and any reseases, or new	any and all other Patent of any
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executed and will not execut time a request is made, and perfect the title to said inven nominees or legal recessent said invertion(s) or improved papers, to execute all discl rightful caths and declaration legal representatives to obta	te any agreement is confli- without unitue delay, exec- dion(s) or improvement(s), stives, and live agree to : ment(s), said application a aimers, and divisionals, co s, and generally to do eve sin and enforce, for its or it countries provided the en	to convey the entire interest here: ct herewith, and I/we turther cover xte end deliver all such papers as said application and said Patent, tommunicate to HPDC, or in its ru ind said Patent, to testify in any te principations, C-I-P's, reisage and rything possible to aid HPDC, its si their own benefit, proper patent penses which may be incurred by	rant and agree that I/we will, each may be necessary or desirable to to HPDC, its successors, assigns, mines, all known facts respecting gal proceedings, to sign all lawful foreign applications, to miske all uccessors, assigns, nominees and protection for said inventionis) or
applicátions as aforesaid, to	issue to HPDC, as assig t(s) which may be issue	ial of any country or countries who ned of the entire right, title and in it and granted on or as a resul	terest, any and all Patent for paid
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IN WITNESS WHEREOI	F, I/we hereanto set my,	our hand(s) and seal(s):	
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Frank Marchae	Specificania .		
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aventor's Signature		Date	

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HP Inc.	
3390 E. Harmony Road	
Mail Stop 35	
Fort Collins, Colorado 80528	RECORD ID:
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	ASSIGNMENT OF DATENT ADDITION

# 84490191

PATENT APPLICATION

and in furtherance of m Limited Partnership havi subsidiaries and affiliates	y/our obligations to HEW ing its principal place of , agree to assign and trans	able consideration, the receipt of which is hereby acknowledged, LETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas business in Houston, Texas, (hereinafter HPDC), and to its fer 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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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 prefore; and any reissues, or reexaminations, or extensions of said
by HPDC, its successors, Patent respectively may be	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 executime a request is made, an perfect the title to said invenominees or legal represersaid invention(s) or improvipapers, to execute all disrightful oaths and declarational representatives to obtain	bute any agreement in conflict d without undue delay, exect ention(s) or improvement(s), ntatives, and I/we agree to dement(s), said application a claimers and divisionals, coons, and generally to do ever otain and enforce, for its or all countries provided the ex	to convey the entire interest herein assigned, and that I/we have not the herewith, and I/we further covenant and agree that I/we will, each ute 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 and said Patent, to testify in any legal proceedings, to sign all lawful ntinuations, C-I-P's, reissue and foreign applications, to make all ything possible to aid HPDC, its successors, assigns, nominees and their own benefit, proper patent protection for said invention(s) or penses which may be incurred by me/us in lending such cooperation
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 on 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
		f 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 WHERE	OF, I/we hereunto set my/	our hand(s) and seal(s):
Inventor's Signature		Date
Chien-Hua	Chen	
First/Middle Name	Last Name	
Inventor's Signature		Date
Michael W.	Cumbie	
First/Middle Name	Last Name	

Page 1 of 2

Rev 8/2014 (Assignment)

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First/Middle Name	Last Name		

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