505344880 02/25/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5391663

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
VINCENT C. KORTHUIS	10/30/2015
ERIC T. MARTIN	10/30/2015
MICHAEL W. CUMBIE	10/30/2015
SCOTT A. LINN	11/02/2015

RECEIVING PARTY DATA

Name:	HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.
Street Address:	11445 COMPAQ CENTER DRIVE W.
City:	HOUSTON
State/Country:	TEXAS
Postal Code:	77070

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16284108

CORRESPONDENCE DATA

Fax Number: (502)561-0442

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: 5026252772

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Correspondent Name: MIDDLETON REUTLINGER

Address Line 1: 401 S. 4TH STREET, SUITE 2600 LOUISVILLE, KENTUCKY 40202

ATTORNEY DOCKET NUMBER:	85685311
NAME OF SUBMITTER:	BRANTLEY C. SHUMAKER
SIGNATURE:	/Brantley C. Shumaker/
DATE SIGNED:	02/25/2019

Total Attachments: 4

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PATENT REEL: 048428 FRAME: 0276 HEWLETT-PACKARD COMPANY intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

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RECORD ID:	84345327
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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.

Limited Partners subsidiaries and	nce of my/our obligations to HEV ship having its principal place of laffiliates, agree to assign and tran	VLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas f business in Houston, Texas, (hereinafter HPDC), and to its isfer and hereby assign and transfer to HPDC, its successors and its ing the right of priority, in, to and under an application for Patent
PRINTING SYS	TEM WITH A FLUID CIRCULATIN	G ELEMENT
Filing Date:	January 29, 2018	Application No.: <u>15/748,285</u>
divisionals, and	renewals of and substitutes for said	derein, and any and all continuations, continuations-in-part (C-I-P's), diapplication for said Patent, and any and all other Patent of any nerefore; and any reissues, or reexaminations, or extensions of said
Patent respective	cessors, assigns, nominees or lega	ons in my/our name for Patent in any country, to be held and enjoyed I representatives, to the full end of the term or terms for which said ended, as fully and entirely as the same would have been held and of been made;
executed and will time a request is perfect the title to nominees or lega said invention(s) papers, to execu rightful oaths and and legal represe improvement(s) is cooperation and a AND I/we he applications as af invention(s) or in	I not execute any agreement in confirmade, and without undue delay, exerbial in confirmation and invention (s) or improvement (s). I representatives, and I/we agree to or improvement (s), said application at all disclaimers and divisionals, of declarations, and generally to do entatives to obtain and enforce, for its in any and all countries provided assistance are paid by HPDC; preby authorize and request the officion foresaid, to issue to HPDC, as assign provement (s) which may be issue	It to convey the entire interest herein assigned, and that I/we have not ict herewith, and I/we further covenant and agree that I/we will, each cute and deliver all such papers as may be necessary or desirable to a said application and said Patent, to HPDC, its successors, assigns, communicate to HPDC, or to its nominee, all known facts respecting and said Patent, to testify in any legal proceedings, to sign all lawful continuations, C-I-P's, reissue and foreign applications, to make all everything possible to aid HPDC, its successors, assigns, nominees or their own benefit, proper patent protection for said invention(s) or the expenses which may be incurred by me/us in lending such sial of any country or countries whose duty it is to issue patents on the entire right, title and interest, any and all Patent for said and granted on or as a result of the application aforesaid, in
l/we further	he terms of this assignment. authorize and direct the attorneys	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
Mondell	WHEREOF 17) we hereup to set my,	/our hand(s) and seal(s): $ \frac{10/30/36/5}{} $
Invéritor's Signature		Date Date
Vincent C.	KORTHUIS	***************************************
First/Middle Name	Last Name	
nventor's Signature		Date
Eric T.	MARTIN	
First/Middle Name	Last Name	

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HEWLETT-PACKARD COMPAN Intellectual Property Administrato 3404 E. Harmony Road	' 1			PATENT APPLICATION
Mail Stop 35 Fort Collins, Colorado 80528		RECORD	ID:	84345327
	⊸ ASSIGNMENT (OF PATENT APPLIC	ATIO	N
and in furtherance of my/ou Limited Partnership having subsidiaries and affiliates, agi	ch), for good and valu r obligations to HEW ts principal place of ee to assign and trans	able consideration, the LETT-PACKARD DEV business in Houston, sfer and hereby assign	receip ELOF Texa and tr	of of which is hereby acknowledged MENT COMPANY, L.P., a Texas s, (hereinafter HPDC), and to its ansfer to HPDC, its successors and under an application for Patent
PRINTING SYSTEM WITH A	FLUID CIRCULATING	3 ELEMENT		
Filing Date: January	29, 2018	Application N	o.:	15/748,285
divisionals, and renewals of a	nd substitutes for said	application for said Pa	tent, a	ations, continuations-in-part (C-I-P's) and any and all other Patent of any eexaminations, or extensions of said
by HPDC, its successors, assignment	gns, nominees or legal inted, reissued or exte	representatives, to the noded, as fully and entire	full en	n any country, to be held and enjoyed d of the term or terms for which said the same would have been held and
executed and will not execute a time a request is made, and wit perfect the title to said invention nominees or legal representative said invention(s) or improvement papers, to execute all disclaim rightful oaths and declarations, and legal representatives to obtain	iny agreement in confliction and in confliction and the confliction and the confliction and the confliction and divisionals, confliction and generally to do example and enforce, for its a countries provided the countries of the	of herewith, and I/we fund that and deliver all such a said application and said communicate to HPDC, of and said Patent, to testify ontinuations, C-I-P's, rei- verything possible to aid or their own benefit, pro-	her copapers d Pate or to its in an ssue a HPD(per pat	erein assigned, and that I/we have not venant and agree that I/we will, each as may be necessary or desirable to nt, to HPDC, its successors, assigns, a nominee, all known facts respecting y legal proceedings, to sign all lawful ind foreign applications, to make all C, its successors, assigns, nominees tent protection for said invention(s) or incurred by me/us in lending such
applications as aforesaid, to iss	ue to HPDC, as assign which may be issued	nee of the entire right, ti	ile and	whose duty it is to issue patents on I interest, any and all Patent for said sult of the application aforesaid, in
I/we further authorize and application for Patent, now iden known to them.	direct the attorneys of ified by the Record ID a	of record to insert the tand title set forth above,	iling d as soo	ate and application number of said n as the same shall have been made
IN WITNESS WHEREOF, I	/we hereunto set my/	our hand(s) and seal(s):	
Inventor's Signature		Date		
Vincent C.	KORTHUIS			
First/Middle Name	Last Name			
Inventor's Signature		Date	<u> </u>	0/2015
		Late		

Eric T. MARTIN First/Middle Name Last Name

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HEWLETT-PACKARD COMPANY Intellectual Property Administrator

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	ASSIGNMENT OF	PATENT APPLICA	ATION (cont	.}.	
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Inventor's Signature		alarga baan gibe kali 🗟	Date		
Michael W.	CUMBIE				
First/Middle Name	Last Name				
Inventor's Signature			Date		
Scott A.	LINN				
First/Middle Name	Last Name	ar da maria da maria			
Inventor's Signature			Date		
Civet (Naid Ho Stance	Last Name				
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First/Middle Name					
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First/Middle Name	Last Name	 			
nventor's Signature	······································		late		, , , , , , , , , , , , , , , , , , ,
First/Middle Name	Last Name				

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HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35

PATENT APPLICATION

Mail Stop 35 Fort Collins, Colorado 80528		RECORD ID:	84345327
	ASSIGNMENT OF PA	ATENT APPLICATION (cont	.)
Inventor's Signature		Date	
Michael W.	CUMBIE		
First/Middle Name	Last Name		
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Inventor's Signature		Date	
Scott A.	LINN		
First/Middle Name	Last Name		
inventor's Signature		Date	
First/Middle Name	Last Name		
inventor's Signature		Date	
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First/Middle Name	Last Name		

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RECORDED: 02/25/2019