PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4561274

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LAWRENCE H WHITE	10/29/2014
ARUN K AGARWAL	10/29/2014
RON BURNS	10/29/2014

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:	15521481

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

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Address Line 2: INTELLECTUAL PROPERTY ADMINISTRATION

Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER: 84621415

NAME OF SUBMITTER: KUBAE KIM

SIGNATURE: /Kubae Kim/

DATE SIGNED: 08/22/2017

Total Attachments: 3

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PATENT 504514569 REEL: 043359 FRAME: 0145

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

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RECORD ID:	8404222	В	

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

subsidiaries and	l affiliates, agre	e to assign and	transfer and hereb	Houston, Texas, (hereinaft by assign and transfer to HPI priority, in, to and under an	DC, its successors and
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Filing Date:	04-24-2017	7	Appl	lication No.: 15/521,48	1
divisionals, and	renewals of ar	nd substitutes for	said application for	r and all continuations, contin or said Patent, and any and any reissues, or reexamination	all other Patent of an
by HPDC, its su Patent respective	ccessors, assig ely may be gra	ins, nominees or nted, reissued or	legal representativi	ame for Patent in any country es, to the full end of the term and entirely as the same wo	or terms for which said
executed and with time a request is perfect the title to nominees or legislated invention(s) papers, to executify the control of the control	Il not execute a made, and with o said invention al representativ or improvemer ute all disclaim d declarations, entatives to obt in any and al	ny agreement in a nout undue delay, (s) or improveme es, and I/we agre at(s), said applicates ars and divisional and generally to ain and enforce, for countries	conflict herewith, ar execute and delive nt(s), said applicati e to communicate to tion and said Pater ils, continuations, (do everything possion its or their own b	entire interest herein assigned live further covenant and a craft such papers as may be non and said Patent, to HPDC, to HPDC, or to its nominee, all it, to testify in any legal procedule. P's, reissue and foreign a sible to aid HPDC, its successivenefit, proper patent protection which may be incurred by	gree that I/we will, each ecessary or desirable to its successors, assigns I known facts respecting edings, to sign all lawfupplications, to make alsors, assigns, nomineer for said invention(s) o
applications as a	aforesaid, to iss mprovement(s)	ue to HPDC, as which may be i	assignee of the ent	ntry or countries whose duty tire right, title and interest, and d on or as a result of the s	and all Patent for said
I/we further application for Paknown to them.	authorize and atent, now ident	direct the attorn ified by the Recor	eys of record to i d ID and title set fo	nsert the filing date and app rth above, as soon as the sam	lication number of said e shall have been made
IN WITNES	S WHEREOF, I	/we hereunto se	t my/our hand(s)	and seal(s):	
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Inventor's Signatu	و ۲٬۰)14
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Lawrence H.	·····	White			
First/Middle Name		Last Name			
Inventor's Signatu	re			Date	managa ang ang ang ang ang ang ang ang an
Arun K.		Agarwal		* #EA	
First/Middle Name	•	Last Name		uiteur .	
Rev 8/2014 (Assignmen	ot)		Page 1 of 2		

PATENT REEL: 043359 FRAME: 0146

Rev 8/2014 (Assignment)

HEWLETT-PACKARD COMPA intellectual Property Administra	i		PATENT APPLICATION
3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528	300	RECORDID:	84042228
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and in furtherance of my/ Limited Partnership having subsidiaries and effiliates.	each), for good and valuable our obligations to HEWLE? Its principal place of bus agree to assign and transfer	consideration, the receipt T-PACKARD DEVELOPN liness in Houston, Texas and hereby assign and trai	of which is hereby acknowledged, MENT COMPANY, L.P., a Texas, (hereinafter HPDC), and to its hereinafter HPDC, its successors and id under an application for Patent
INK JET PRINTING			
Filing Date: 04-24-201	7	Application No.:	15/521,481
divisionals, and renewals of	f and substitutes for said ap	plication for said Patent, ai	tions, continuations-in-part (C-I-P's), nd any and all other Patent of any sexaminations, or extensions of said
by HPDC, its successors, a Patent respectively may be	ssigns, nominees or legal rep	resentatives, to the full end d, as fully and entirely as t	any country, to be held and enjoyed of the term or terms for which said he same would have been held and
time a request is made, and perfect the title to said inven nominees or legal represent said invention(s) or improve papers, to execute all disci rightful oaths and declaratio and legal representatives to	without undue delay, execute tlion(s) or improvement(s), sal- jatives, and I/we agree to com ment(s), said application and laimers and divisionals, conti- ins, and generally to do even, obtain and enforce, for its or to all countries provided the	and deliver all such papers d application and said Pater municate to HPDC, or to its said Patent, to testify in any nuations, C-I-P's, reissue a thing possible to aid HPDC heir own benefit, proper pat	renant and agree that I/we will, each as may be necessary or desirable to it, to HPDC, its successors, assigns, nominee, all known facts respecting legal proceedings, to sign all lawful nd foreign applications, to make all its successors, assigns, nominees ent protection for said invention(s) or incurred by me/us in lending such
applications as aforesaid, to	issue to HPDC, as assignee it(s) which may be issued a	of the entire right, title and	whose duty it is to issue patents on interest, any and all Patent for said sult of the application aforesaid, in
			ate and application number of said n as the same shall have been made
IN WITNESS WHEREO	F, I/we hereunto set my/ou	r hand(s) and seal(s):	
Inventor's Signature		Date	
Lawrence H.	White		
First/Middle Name	Last Name		
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Inventor's Signature	"	Date	· · · · · · · · · · · · · · · · · · ·
Arun K.	Agarwal		
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Page 1 of 2

PATENT REEL: 043359 FRAME: 0147 HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Ent Colles Colorado 80528

PATENT APPLICATION

Mail Stop 35 Fort Collins, Colorado 80528		RECORD ID:	84042228
L	 ASSIGNMENT OF PA	NTENT APPLICATION (cont.)	
Row Marine Inventor's Signature			4
Ron	Burns		
First/Middle Name	Last Name		
inventor's Signature		Date	
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name		
inventor's Signature		Date	
First/Middle Name	Last Name		
Inventor's Signature		Date	
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Inventor's Signature		Date	
First/Middle Name	Last Name		

Page 2 of 2

Rev 8/2014 (Assignment)

PATENT REEL: 043359 FRAME: 0148