PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ALI EMAMJOMEH	01/21/2014
ELIZABETH ANN VISNYAK	02/07/2014
GEORGE SARKISIAN	01/21/2014

RECEIVING PARTY DATA

Name:	Hewlett-Packard Development Company, L.P.	
Street Address:	ress: 11445 Compaq Center Drive West	
City:	Houston	
State/Country:	TEXAS	
Postal Code:	77070	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15106614

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:	84487824
NAME OF SUBMITTER:	GARY P. OAKESON
SIGNATURE:	/Gary P. Oakeson/
DATE SIGNED:	06/20/2016

Total Attachments: 3

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PATENT 503879680 REEL: 038960 FRAME: 0538

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

PATENT	APPL	ICATION
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RECORD ID:	83767236

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree, that for good and valuable consideration, the

receipt of which is hereby acknowledged, and in furtherance of DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership hat Texas, (hereinafter HPDC), and to its subsidiaries and affiliates, to a assigns, the entire right, title and interest, including the right of prientitled:	aving its principal place of business in Houston, assign and transfer to HPDC, its successors and
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	tion No.: PCT/US2014/012279
and the invention(s) and improvement(s) set forth therein, and any ar divisionals, and renewals of and substitutes for said application for s countries thereto which may be granted thereon or therefore; and any Patent.	said Patent, and any and all other Patent of any
I/we additionally authorize HPDC to file applications in my/our nam- 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 enexecuted and will not execute any agreement in conflict herewith, and I time a request is made, and without undue delay, execute and deliver a perfect the title to said invention(s) or improvement(s), said application anominees or legal representatives, and I/we agree to communicate to heald 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 and legal representatives to obtain and enforce, for its or their own benefit in any and all countries provided the expenses whice cooperation and assistance are paid by HPDC;	/we further covenant and agree that I/we will, each il such papers as may be necessary or desirable to and said Patent, to HPDC, its successors, assigns, HPDC, or to its nominee, all known facts respecting to testify in any legal proceedings, to sign all lawful P's, reissue and foreign applications, to make all to aid HPDC, its successors, assigns, nominees efft, 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 linventor's Signature	d seal(s):
Ali Emamjomeh Inventor's Typed Name	<u>.</u>
see next page	
Inventor's Signature	Date
Elizabeth Ann Visnyak Inventor's Typed Name	_
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HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

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ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree, that 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,

· · · · · · · · · · · · · · · · · · ·	the right of priority, in, to and under an application for Patent
NKJET PRINTING	
Filing Date: January 21, 2014	Application No.: PCT/US2014/012279
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 perefore; and any reissues, or reexaminations, or extensions of said
by HPDC, its successors, assigns, nominees or legal	is 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 ided, as fully and entirely as the same would have been held and been made;
executed and will not execute any agreement in conflic time a request is made, and without undue delay, execu perfect the title to said invention(s) or improvement(s), nominees or legal representatives, and I/we agree to co	to convey the entire interest herein assigned, and that I/we have not therewith, 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

AND t/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.

papers, to execute all disclaimers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful oaths 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 melus in lending such

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):

cooperation and assistance are paid by HPDC;

see previous page		
Inventor's Signature		Date
Ali Emamjomeh		
Inventor's Typed Name		
Inventor's Signature	<u></u>	$\frac{2}{2}$ 2014
Elizabeth Ann Visnyak		Dute
Inventor's Typed Name		
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HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35

PATENT APPLICATION

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inventor's Signature/			Date /					
George Sarkisian Inventor's Typed Name		::::::::::::::::::::::::::::::::::::::						
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Inventor's Signature			Daie					
Inventor's Typed Name								
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RECORDED: 06/20/2016