#### 502457393 08/14/2013

#### PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
Dustin W. Blair	08/11/2013
Lawrence H. White	08/09/2013
Sean P. McClelland	08/12/2013

### 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:	13924799

#### CORRESPONDENCE DATA

Fax Number: 9707784063

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

(541)715-8443 Phone:

Email: pto.assignments@hp.com Correspondent Name: Hewlett-Packard Company Address Line 1: 3404 E. Harmony Road MS 35 Address Line 2: Intellectual Property Administration Address Line 4: Fort Collins, COLORADO 80528

NAME OF SUBMITTER:	Terri Walker
Signature:	/terri walker/
Date:	08/14/2013

## Total Attachments: 3

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**PATENT REEL: 031005 FRAME: 0357** 

HEWLETT-PACKARD COMPANY		PATENT APPLICATION
Intellectual Property Administrator		
3404 E. Harmony Road		·
Maii Step 35	RECORD ID:	83217720
Fort Cation, Colorado 80525		×
ASSIGNMEN	IT OF PATENT APPLICATION	
. IAVe, the undersigned (each) have ag	reed and hereby agree, that for good	and valuable consideration, the

IAWe, 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, Texas, (hereinafter HPDC), and to its subsidiaries and affiliates, to 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.

#### NOZZLE LAYOUTS FOR PRINTHEADS

Filing Date: Jun 24, 2013	Application No.:	13/924799
and the invention(s) and improvement(s) set torth therein,	and any and all confi	nuations, confinuations-in-part (C-I-P's),
divisionals, and renewals of and substitutes for said appl	cation for said Patent	, and any and all other Patent of any
countries thereto which may be granted thereon or theretor	ra: and any rejasues, c	or reexaminations, or extensions of said
Satent		

I/we additionally authorize HPDC to file applications in mylour 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 meass had this assignment, and transfer not been made.

AND live hereby coverant that live have full right to convey the entire interest herein assigned, and that live have not executed and will not execute any agreement in conflict herewith, and live further coverant and agree that live will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to serfect the filte to said invention(s) or improvement(s), said application and said Patent, to HPDC, its successors, assigns, nominees or legal representatives, and five 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, CHPPs, release and foreign applications, to make all rightful daths 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 time 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 assigned of the entire right, fittle 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 data and application number of said application for Paters, flow 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 he	regulito set my/our hand(s) and :	seal(s): / ;
11th V	Kaa	8/11/2013
inventor's Signature		Oate
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Dustin W Star		
Inventor's Typed Name		
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invertions Signature		Date
Lawrence H White		
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

Rev 1/ 2013 (Assignment)

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83217720

# ASSIGNMENT OF PATENT APPLICATION

100/a the undersigned (each) have sureed and hereby sures 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, Texas, (hereinafter HPDC), and to its subsidiaries and affiliates, to 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:  NOZZLE LAYOUTS FOR PRINTHEADS			
and the invention(s) and improvement(s) set forth therein, and any and divisionals, and renewals of and substitutes for said application for sa countries thereto which may be granted thereon or therefore; and any repatent.	id 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, to Patent respectively may be granted, reissued or extended, as fully and enjoyed by me/us had this assignment, and transfer not been made;	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 entirexecuted and will not execute any agreement in conflict herewith, and I/we time a request is made, and without undue delay, execute and deliver all perfect the title to said invention(s) or improvement(s), said application as nominees or legal representatives, and I/we agree to communicate to HF said invention(s) or improvement(s), said application and said Patent, to papers, to execute all disclaimers and divisionals, continuations, C-I-P rightful oaths and declarations, and generally to do everything possible and legal representatives to obtain and enforce, for its or their own benefit improvement(s) in any and all countries provided the expenses which cooperation and assistance are paid by HPDC;  AND I/we hereby authorize and request the official of any country	we further covenant and agree that I/we will, each such papers as may be necessary or desirable to hid said Patent, to HPDC, its successors, assigns, PDC, or to its nominee, all known facts respecting testify in any legal proceedings, to sign all lawful is, reissue and foreign applications, to make all to aid HPDC, its successors, assigns, nominees it, proper patent protection for said invention(s) or the may be incurred by me/us in lending such		
applications as aforesaid, to issue to HPDC, as assigned of the entire rimention(s) or improvement(s) which may be issued and granted on accordance with the terms of this assignment.	ight, little and interest, any and all Patent for said		
have further authorize and direct the attorneys of record to insert application for Patent, now identified by the Record ID and title set forth a known to them.			
IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and	seal(s):		
Inventor's Signature	Date		
Oustin W Blair Inventor's Typed Name	6/9/7013		
Inventor's Signature	Date		
Lawrence H White Inventor's Typed Name			

Page 1 of 2

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

# PATENT APPLICATION

3-91-4 E. Harmony Road Mail Stop 35	RECORD ID: 83217720
Fort Colins, Colorado 60526	PATENT APPLICATION (cont.)
ASSIGNMENT OF	and the state of t
	1 8/12/13
inventor's Signature	Date
Sean P McClelland	
Inventor's Typed Name	
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Inventor's Signature	Date
Inventor's Typed Name	

Rev 1/2013 (Assignment)

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PATENT REEL: 031005 FRAME: 0360