#### 503158562 01/30/2015

# PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3205176

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date	
MARK H. MACKENZIE	12/10/2012	
GARRETT E. CLARK	12/11/2012	

### **RECEIVING PARTY DATA**

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

## **PROPERTY NUMBERS Total: 1**

Property Type	Number		
Application Number:	14418478		

#### 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: 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

ATTORNEY DOCKET NUMBER:	84141040
NAME OF SUBMITTER:	TODD RATHE
SIGNATURE:	/Todd Rathe/
DATE SIGNED:	01/30/2015

**Total Attachments: 2** 

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> **PATENT REEL: 034850 FRAME: 0246** 503158562

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all Stop 35		RECORD ID:	83116330	
rt Collins, Colorado 80528				
	ASSIGNMENT OF PATI	ENT 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, 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: PRINT HEAD DIE Filing Date: Sept. 25, 2012 Application No.: PCT/US2012/057034 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 paths 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 han	id(s) and seal(s):	
1/an-1/1/2/2	12-10-12	
Inventor's Signature	Date Assignment Signed	
Mark H. MacKenzie	12.10.12	
inventor's Typed Name	Date Application Signed	
inventor's Signature	Date Assignment Signed	
Garrett E. Clark		
Inventor's Typed Name	Date Application Signed	

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

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RECORD ID: 83116330
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Fort Collins, Colorado 80528	,,,,,	
receipt of which is hereby a DEVELOPMENT COMPANY, Texas, (hereinafter HPDC), and	cknowledged, and in furtherance of L.P., a Texas Limited Partnership hav d to its subsidiaries and affiliates, to as	PLICATION  a, that for good and valuable consideration, the my/our obligations to HEWLETT-PACKARD ing its principal place of business in Houston, usign and transfer to HPDC, its successors and rity, in, to and under an application for Patent
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Filing Date: Sept. 25, 2012		ion No.: PCT/US2012/057034
divisionals, and renewals of an	d substitutes for said application for sa	I all continuations, continuations-in-part (C-I-P's), sid Patent, and any and all other Patent of any eissues, or reexaminations, or extensions of said
by HPOC, its successors, assig Patent respectively may be grain	ns, nominees or legal representatives, to	for Patent in any country, to be held and enjoyed of the full end of the term or terms for which said entirely as the same would have been held and
executed and will not execute as time a request is made, and will perfect the little to said invention nominees or legal representative said invention(s) or improvement papers, to execute all disclaims rightful paths and declarations, and legal representatives to obta	ny agreement in conflict herewith, and Monout undue delay, execute and deliver all (s) or improvement(s), said application ares, and I/we agree to communicate to HI It(s), said application and said Patent, to ers and divisionals, continuations, C-I-P and generally to do everything possible ain and enforce, for its or their own benef I countries provided the expenses whi	re interest herein assigned, and that I/we have not we further coverant and agree that I/we will, each such papers as may be necessary or desirable to nd said Palent, to HPDC, its successors, assigns, PDC, or to its nominee, all known facts respecting testify in any legal proceedings, to sign all lawful 's, reissue and foreign applications, to make all to aid HPDC, its successors, assigns, nominees fit, proper patent protection for said invention(s) or the may be incurred by me/us in lending such
applications as aforesaid, to iss	ue to HPDC, as assignee of the entire r which may be issued and granted on	or countries whose duty it is to issue paients on ight, title and interest, any and all Patent for said or as a result of the application aforesaid, in
I/we further authorize and application for Patent, now ident known to them.	direct the attorneys of record to inser- ified by the Record ID and title set forth a	t the filing date and application number of said bove, as soon 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 Assignment Signed
Mark H. MacKenzie		
Inventor's Types Name		Date Application Signed
		Now 11 11 11 11 11
inventor's Signature	onnummum.	Date Assignment Signed
Southern Street		Dec. 11, 2012
Garrett E. Clark Inventor's Typed Name		Date Application Signed

Page 1 of 1

Rev 10/2012 (Assignment)