502899526 07/21/2014

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GEORGIOS PANOTOPOULOS	04/17/2012
MICHAEL RENNE TY TAN	04/25/2012
WAYNE VICTOR SORIN	04/17/2012
DAVID A FATTAL	04/17/2012

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:	14373400

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.

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Correspondent Name: HEWLETT-PACKARD COMPANY Address Line 1: 3404 E. HARMONY ROAD, M/S35

Address Line 2: INTELLECTUAL PROPERTY ADMINISTRATION

Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	83992456
NAME OF SUBMITTER:	DENISE HENNING-WILSON
SIGNATURE:	/Denise Henning-Wilson/
DATE SIGNED:	07/21/2014

Total Attachments: 3

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HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 36 Fort Collins, Colorado 80528

PATENT APPLICATION

RECORD ID:	82963496
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ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Houston, Texas, (hereinafter HPDC), in furtherance of my/our obligations to the Hewlett-Packard Company and its

entitled: OPTICAL SLAB	
OI HORE SEAD	
Filing Date:	Application No.:
P's), divisionals, and renewals of and su Patent of the United States and of cour reissues, or reexaminations, or extension I/we additionally authorize HPD held and enjoyed by HPDC, its successor terms for which said Letters Patent resp same would have been held and enjoyed AND I/we hereby covenant that we have not executed and will not executed I/we will, each time a request is madecessary or desirable to perfect the titl Patent, to HPDC, its successors, assign HPDC, or to its nominee, all known fact Letters Patent, to testify in any legal procontinuations, C-I-P's, reissue and foreig do everything possible to aid HPDC, it enforce, for its or their own benefit, procountries provided the expenses which paid by HPDC; AND I/we hereby authorize and and any official of any country or courapplications as aforesaid, to issue to HPatent for said invention(s) or improvem be issued and granted on or as a result of I/we further authorize and directions.	set forth therein, and any and all continuations, continuations-in-part (C-lestitutes for said application for said Letters Patent, and any and all Letters notices foreign thereto which may be granted thereon or therefore; and any as of said Letters Patent. Coto file applications in my/our name for Letters Patent in any country, to be ors, assigns, nominees or legal representatives, to the full end of the term of sectively may be granted, reissued or extended, as fully and entirely as the display of the have full right to convey the entire interest herein assigned, and that leave full right to convey the entire interest herein assigned, and that leave any agreement in conflict herewith, and I/we further covenant and agree de, and without undue delay, execute and deliver all such papers as may be let to said invention(s) or improvement(s), said application and said Letters as respecting said invention(s) or improvement(s), said application and said seedings, to sign all lawful papers, to execute all disclaimers and divisionals are patent protection for said invention(s) or improvement(s) in any and any patent protection for said invention(s) or improvement(s) in any and any patent protection for said invention(s) or improvement(s) in any and any be incurred by me/us in lending such cooperation and assistance are request the Commissioner of Patents and Trademarks of the United States intries foreign to the United States whose duty it is to issue patents on PDC, as assignee of the entire right, title and interest, any and all Letters Patent of the United States which may of the application aforesaid, in accordance with the terms of this assignment of the application aforesaid, in accordance with the terms of this assignment of the attorneys of record to insert the serial number and filing date of said to D and title set forth above as soon as the same shall have been made.
	1/17/2012
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Inventor's Signature	
Georgios Panotopoulos	4/17/2012
Inventor's Typed Name	Date Application Signed
Landall Constant	Outo Analysis Olympid
Inventor's Signature	Date Assignment Signed
Michael Renne Ty Tan	
Inventor's Typed Name	Date Application Signed .
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HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mali Stop 36 Fort Collins, Colorado 80528

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ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD its ht, 23

DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership has Texas. (hereinafter HPDC), in furtherance of mylour obligations subsidiaries and affiliates, and do hereby assign and transfer to HPDI title and interest, including the right of priority, in, to and under an appentitled:	ving its principal place of business in Houston, to the Hewlett-Packard Company and its C. its successors and assigns, the entire right,
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Filing Date: Applicati	on No.:
and the Invention(s) and Improvement(s) set forth therein, and any a P's), divisionals, and renewals of and substitutes for said application. Patent of the United States and of countries foreign thereto which is releases, or resxaminations, or extensions of said Letters Patent. I/we additionally authorize HPDC to file applications in my/outheld and enjoyed by HPDC, its successors, assigns, nominees or legiterms for which said Letters Patent respectively may be granted, releasement would have been held and enjoyed by me/us had this assignme AND I/we hereby covenant that I/we have full right to convey we have not executed and will not execute any agreement in conflict that I/we will, each time a request is made, and without undue delay, necessary or desirable to perfect the title to said Invention(s) or imp Patent, to HPDC, its successors, assigns, nominees or legal repress HPDC, or to its nominee, all known facts respecting eald invention(e) Letters Patent, to testify in any legal proceedings, to sign all lawful pay continuations, C-I-P's, reissue and foreign applications, to make all rido everything possible to aid HPDC, its successors, assigns, nomicentaries, for its or their own benefit, proper patent protection for said countries provided the expenses which may be incurred by me/us in paid by HPDC;	nd all continuations, continuations-in-part (C-i- for said Letters Patent, and any and all Letters may be granted thereon or therefore; and any or name for Lettere Patent in any country, to be all representatives, to the full end of the term or seued or extended, as fully and entirely as the nt, and transfer not been made; or the entire Interest herein assigned, and that if herewith, and live further covenant and agree execute and deliver all such papers as may be execute and deliver all such papers as may be execute and live agree to communicate to or improvement(s), said application and said bears, to execute all disclaimers and divisionals, aghtful oaths and declarations, and generally to nees and legal representatives to obtain and invention(s) or improvement(s) in any and all lending such cooperation and assistance are
AND two hereby authorize and request the Commissioner of and any official of any country or countries foreign to the United applications as aforesaid, to issue to HPDC, as assignee of the ent Patent for said invention(s) or improvement(s), including any and all be issued and granted on or as a result of the application aforesaid, in live further authorize and direct the attorneys of record to application now identified by the Record ID and title set forth above known to them by the United States Patent and Trademark Office.	States whose duty it is to issue patents on ire right, title and interest, any and all Letters Letters Patent of the United States which may accordance with the terms of this assignment, insert the serial number and filling date of said
Inventor's Signature	Date Assignment Signed
Georgios Panotopoulos	
Unideal lemetyte	Date Application Signed 4/25/12
Inventor's Signature	Date Assignment Signed 4/25/12
Michael Renne Ty Tan Inventor's Typed Name	Daie Application Signed
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HEWLETT-PACKARD COMPANY
Intellectual Property Administrator
3404 E. Harmony Road
Mail Stop 35
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