PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3587090

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NING GE	08/15/2013
MUN HOOI YAOW	08/15/2013
BEE LING PEH	08/15/2013

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:	14787233

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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HEWLETT-PACKARD COMPANY Correspondent Name: 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:	84409386
NAME OF SUBMITTER:	STEVEN L. NICHOLS
SIGNATURE:	/Steven L. Nichols/
DATE SIGNED:	10/26/2015

Total Attachments: 3

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> **PATENT** REEL: 036884 FRAME: 0644 503540463

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

DATE			

RECORD ID: 83416798	
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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 eight of which is hereby acknowledged, and in furtherance of my/our obligations to HEWLETT-PACKARD

DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership Texas, (hereinafter HPDC), and to its subsidiaries and affiliates, assigns, the entire right, title and interest, including the right or entitled:	having its principal place of business in Houston, to assign and transfer to HPDC, its successors and
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	lication No.: PCT/US2013/052460
and the invention(s) and improvement(s) set forth therein, and an divisionals, and renewals of and substitutes for said application countries thereto which may be granted thereon or therefore; and Patent.	for said Patent, and any and all other Patent of any
I/we additionally authorize HPDC to file applications in my/our by HPDC, its successors, assigns, nominees or legal representative. Patent respectively may be granted, refssued or extended, as fully enjoyed by me/us had this assignment, and transfer not been made;	res, to the full end of the term or terms for which said and entirely as the same would have been held and
AND I/we hereby covenant that I/we have full right to convey the executed and will not execute any agreement in conflict herewith, a time a request is made, and without undue delay, execute and delive perfect the title to said invention(s) or improvement(s), said application nominees or legal representatives, and I/we agree to communicate said invention(s) or improvement(s), said application and said Pate papers, to execute all disclaimers and divisionals, continuations, rightful oaths and declarations, and generally to do everything post and legal representatives to obtain and enforce, for its or their own improvement(s) in any and all countries provided the expenses cooperation and assistance are paid by HPDC;	nd I/we further covenant and agree that I/we will, each er all such papers as may be necessary or desirable to ion and said Patent, to HPDC, its successors, assigns, to HPDC, or to its nominee, all known facts respecting nt, to testify in any legal proceedings, to sign all lawful C-I-P's, reissue and foreign applications, to make all isible to aid HPDC, its successors, assigns, nominees benefit, proper patent protection for said invention(s) or
AND I/we hereby authorize and request the official of any con applications as aforesaid, to issue to HPDC, as assignee of the er invention(s) or improvement(s) which may be issued and grante accordance with the terms of this assignment.	itire right, title and interest, any and all Patent for said
I/we further authorize and direct the attorneys of record to application for Patent, now identified by the Record ID and title set filknown to them.	
IN WITNESS WHEREOF, I/we hereunto set my/our hand(s)	and seal(s):
- Geding	15/8/2013
Inventor's Signature	Date
NING GE	
Inventor's Typed Name	
Inventor's Signature	Date
MUN HOOI YAOW Inventor's Typed Name	

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HEWLETT-PACKARD C	OMPANY
Intellectual Property Adm	
3404 E. Harmony Road	
Mail Stop 35	
Fort Collins, Colorado 80	528

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RECORD ID:	83416798
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ASSIGNMENT OF PATENT APPLICATION

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

applications as aforesaid, to issue to HPDC, as assignee of invention(s) or improvement(s) which may be issued and accordance with the terms of this assignment. I/we further authorize and direct the attorneys of reco	the entire right, title and interest, any and all Patent for said granted on or as a result of the application aforesaid, in and to insert the filling date and application number of said a set forth above, as soon as the same shall have been made and(s) and seal(s): Date Said Said Date Dat
applications as aforesaid, to issue to HPDC, as assignee of invention(s) or improvement(s) which may be issued and accordance with the terms of this assignment. I/we further authorize and direct the attorneys of rece application for Patent, now identified by the Record ID and titl known to them. IN WITNESS WHEREOF, I/we hereunto set my/our harmonics Signature NING GE	granted on or as a result of the application aforesaid, in ordered to insert the filing date and application number of said a set forth above, as soon as the same shall have been made and(s) and seal(s): Date
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AND live hereby supporting and request the official of	ny country or countries whose duty it is to issue patents on
executed and will not execute any agreement in conflict here time a request is made, and without undue delay, execute an perfect the title to said invention(s) or improvement(s), said a nominees or legal representatives, and I/we agree to commusaid invention(s) or improvement(s), said application and sai papers, to execute all disclaimers and divisionals, continuational paths and declarations, and generally to do everythical legal representatives to obtain and enforce, for its or the	made; vey the entire interest herein assigned, and that I/we have not with, and I/we further covenant and agree that I/we will, each did deliver all such papers as may be necessary or desirable to pplication and said Patent, to HPDC, its successors, assigns, nicate to HPDC, or to its nominee, all known facts respecting di Patent, to testify in any legal proceedings, to sign all lawful tions, C-I-P's, reissue and foreign applications, to make all nig possible to aid HPDC, its successors, assigns, nominees or own benefit, proper patent protection for said invention(s) or penses which may be incurred by me/us in lending such
by HPDC, its successors, assigns, nominees or legal represent respectively may be granted, reissued or extended,	y/our name for Patent in any country, to be held and enjoyed entatives, to the full end of the term or terms for which said as fully and entirely as the same would have been held and made.
divisionals, and renewals of and substitutes for said applic	ind any and all continuations, continuations-in-part (C-I-P's), ation for said Patent, and any and all other Patent of any ; and any reissues, or reexaminations, or extensions of said
Filing Date: Jul 29, 2013	Application No.: PCT/US2013/052460
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assigns, the entire right, title and interest, including the entitled.	liates, to assign and transfer to HPDC, its successors and ight of priority, in, to and under an application for Patent

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HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528	RECORD ID:	PATENT APPLICATION 83416798
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