### 501779076 01/08/2012

# PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
Naren Sundaravaradan	11/13/2011
Debprakash Patnaik	11/10/2011
Manish Marwah	11/08/2011
Amip Shah	11/08/2011
Naren Ramakrishnan	12/20/2011

### RECEIVING PARTY DATA

Name:	Hewlett-Packard Company
Street Address:	3404 E. Harmony Road MS 35
City:	Fort Collins
State/Country:	COLORADO
Postal Code:	80528

## PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13282388

### CORRESPONDENCE DATA

Fax Number: (970)778-4063 Phone: 9708984728

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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US

Mail.

Correspondent Name:Hewlett-Packard CompanyAddress Line 1:3404 E. Harmony Road MS 35Address Line 4:Fort Collins, COLORADO 80528

NAME OF SUBMITTER: Mark D. Trenner

Total Attachments: 3

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> PATENT REEL: 027497 FRAME: 0370

13282388

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

PATENT	APPI	ICA	TION

ATTORNEY DOCKET NO	. <u>82737744</u>
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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, S

Texas, (hereinafter HPDC), in furtherance of my/our obligation subsidiaries and affiliates, and do hereby assign and transfer to HPI title and interest, including the right of priority, in, to and under an a entitled:	DC, its successors and assigns, the entire right	
System and method for tree discovery		
Filing Date: 26 October 2011 Applier	ition No.: 13/282,388	
and the invention(s) and improvement(s) set forth therein, and any		
P's), divisionals, and renewals of and substitutes for said application		
Patent of the United States and of countries foreign thereto which		
reissues, or reexaminations, or extensions of said Letters Patent.		
I/we additionally authorize HPDC to file applications in my/	our name for Letters Patent in any country, to be	
held and enjoyed by HPDC, its successors, assigns, nominees or le terms for which said Letters Patent respectively may be granted, re same would have been held and enjoyed by me/us had this assignm.  AND I/we hereby covenant that I/we have full right to convive 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 implement, to HPDC, its successors, assigns, nominees or legal represent, to HPDC, its successors, assigns, nominees or legal represent, to testify in any legal proceedings, to sign all lawful prontinuations, C-I-P's, reissue and foreign applications, to make all do everything possible to aid HPDC, its successors, assigns, nor enforce, for its or their own benefit, proper patent protection for sa countries provided the expenses which may be incurred by me/us paid by HPDC;  AND I/we hereby authorize and request the Commissioner and any official of any country or countries foreign to the United applications as aforesaid, to issue to HPDC, as assignee of the expentent for said invention(s) or improvement(s), including any and ail be issued and granted on or as a result of the application aforesaid, I/we further authorize and direct the attorneys of record to	pissued or extended, as fully and entirely as the sent, and transfer not been made; but the entire interest herein assigned, and that it herewith, and I/we further covenant and agreed, execute and deliver all such papers as may be approvement(s), said application and said Letten assentatives, and I/we agree to communicate to essentatives, and declarations, and generally to himees and legal representatives to obtain and invention(s) or improvement(s) in any and all in lending such cooperation and assistance are of Patents and Trademarks of the United States of Italies whose duty it is to issue patents or of the right, title and interest, any and all Letters Italies Patent of the United States which may in accordance with the terms of this assignment.	
application now identified by the attorney docket number and title		
been made known to them by the United States Patent and Tradema		
1.4		
- / <i>(M</i>	13 - Mov - 2011	
Inventor's Signature	Date Assignment Signed	
Naren Sundaravaradan	Same	
Inventor's Typed Name	Date Application Signed	
Inventor's Signature	Date Assignment Signed	
Debprakash Patnalk	Same	
Invertor's Typed Name	Date Application Signed	

Rev 10/09 (Assignment)

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PATENT		

ATTORNEY DOCKET NO	82737744
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## ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD 8 ŧ, 8

Taxas, (hereinafter HPDC), in furtherance of my/our subsidiaries and affiliates, and do hereby assign and tran-	nership having its principal place of business in Houston, obligations to the Hewlett-Packard Company and its sfer to HPDC, its successors and assigns, the entire right, inder an application for Letters Patent of the United States
Filing Date: 26 October 2011	Application No.: 13/282,388
P's), divisionals, and renewals of and substitutes for said Patent of the United States and of countries foreign their reissues, or reexaminations, or extensions of said Letters. I/we additionally authorize HPDC to file application held and enjoyed by HPDC, its successors, assigns, nomitterms for which said Letters Patent respectively may be a same would have been held and enjoyed by me/us had the AND I/we hereby covenant that I/we have full rig we have not executed and will not execute any agreement that I/we will, each time a request is made, and without unnecessary or desirable to perfect the title to said invention Patent, to HPDC, its successors, assigns, nominees or HPDC, or to its nominee, all known facts respecting said Letters Patent, to testify in any legal proceedings, to sign a continuations, C-I-P's, reissue and foreign applications, to do everything possible to aid HPDC, its successors, as enforce, for its or their own benefit, proper patent protect countries provided the expenses which may be incurred paid by HPDC;  AND I/we hereby authorize and request the Comand any official of any country or countries foreign to applications as aforesaid, to issue to HPDC, as assigned Patent for said invention(s) or improvement(s), including a be issued and granted on or as a result of the application at I/we further authorize and direct the attorneys of the incurrence.	ons in my/our name for Letters Patent in any country, to be inees or legal representatives, to the full end of the term or granted, reissued or extended, as fully and entirely as the is assignment, and transfer not been made; but to convey the entire interest herein assigned, and that the to convey the entire interest herein assigned, and that the in conflict herewith, and twe further covenant and agree indue delay, execute and deliver all such papers as may be on(s) or improvement(s), said application and said Letters legal representatives, and twe agree to communicate to invention(s) or improvement(s), said application and said all lawful papers, to execute all disclaimers and divisionals, make all rightful oaths and declarations, and generally to signs, nominees and legal representatives to obtain and tion for said invention(s) or improvement(s) in any and all by me/us in lending such cooperation and assistance are imissioner of Patents and Trademarks of the United States the United States whose duty it is to issue patents on a of the entire right, title and interest, any and all Letters any and all Letters Patent of the United States which may aforesaid, in accordance with the terms of this assignment, if record to insert the serial number and filing date of said and title set forth above as soon as the same shall have
Inventor's Signature	Date Assignment Signed
Neren Sundarevaradan	Same
inventor's Typed Name	Date Application Signed
Debprekash Patricik	Same
Inventor's Typed Name	Date Application Signed

Rev ((MS) (Assignment)

Page 1 of 1

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## PATENT APPLICATION

ASSIGNMENT OF PATENT APPLICATION (cont.)		
wariala	1118/2011	
Inventor's Signature	Date Assignment Signed	
Manish Marwah	11/8/2011	
Maritan Marivan Inventor's Typed Name	Date Application Signed	
invertor's Signature	AK = EMBÉR & 201)  Date Assignment Signed	
•		
Amip Shah Inversor's Typed Name	NOVEMBER STOLL Date Application Signed	
Naralan	DECEMBER 20, 20	
inventor's Signature	Date Assignment Signed	
Naren Ramakrishnan Inventor's Typed Name	DEC 20, 2011 Date Application Signed	
Inventor's Signature	Cate Assignment Signed	
byentor's Typed Name	Date Application Signed	
Oracido » i Monte camo		
inventor's Signature	Date Assignment Signed	
Inventor's Typed Name	Date Application Signed	
inventor's Signature	Date Assignment Signed	
Inventor's Typed Name	Date Application Signed	

Res: NSRB (Assignment)

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PATENT REEL: 027497 FRAME: 0373