

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Ming C. Hao</td> <td>03/22/2012</td> </tr> <tr> <td>Umeshwar Dayal</td> <td>03/22/2012</td> </tr> <tr> <td>Halldor Janetzko</td> <td>03/21/2012</td> </tr> <tr> <td>Sabastian Mittelstadt</td> <td>03/21/2012</td> </tr> <tr> <td>Daniel Keim</td> <td>03/23/2012</td> </tr> </tbody> </table>		Name	Execution Date	Ming C. Hao	03/22/2012	Umeshwar Dayal	03/22/2012	Halldor Janetzko	03/21/2012	Sabastian Mittelstadt	03/21/2012	Daniel Keim	03/23/2012
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Umeshwar Dayal	03/22/2012												
Halldor Janetzko	03/21/2012												
Sabastian Mittelstadt	03/21/2012												
Daniel Keim	03/23/2012												
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													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13268050</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13268050								
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Application Number:	13268050												
CORRESPONDENCE DATA													
Fax Number:	(970)778-4063												
Phone:	(541)715-8443												
Email:	terri.tuma@hp.com												
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>													
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:	Dan C. Hu												
Total Attachments: 3 source=1264-signed-assignment#page1.tif source=1264-signed-assignment#page2.tif source=1264-signed-assignment#page3.tif													

CH \$40.00 13268050

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

PATENT APPLICATION

RECORD ID: 82775164

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 subsidiaries and affiliates, and do hereby 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 Letters Patent of the United States entitled:

PROVIDING AN ELLIPSOID HAVING A CHARACTERISTIC BASED ON LOCAL CORRELATION OF ATTRIBUTES

Filing Date: October 7, 2011

Application No.: 13/268,050

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 Letters Patent, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefore; and any 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 legal representatives, to the full end of the term or terms for which said Letters 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 Letters 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 Letters 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 oaths 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 Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States 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 Letters Patent for said invention(s) or improvement(s), including any and all Letters Patent of the United States 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 serial number and filing date of said application now identified by the Record ID and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.

Ming C. Hao
Inventor's Signature

Ming C. Hao
Inventor's Typed Name

March 22, 2012
Date Assignment Signed

October 3, 2011
Date Application Signed

Umeshwar Dayal
Inventor's Signature

Umeshwar Dayal
Inventor's Typed Name

22 March 2012
Date Assignment Signed

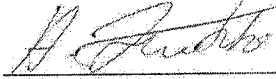
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HEWLETT-PACKARD COMPANY
Intellectual Property Administrator
3404 E. Harmony Road
Mail Stop 35
Fort Collins, Colorado 80528

PATENT APPLICATION

RECORD ID: 82775164

ASSIGNMENT OF PATENT APPLICATION (cont.)



Inventor's Signature

3-21-2012

Date Assignment Signed

Halldor Janetzko
Inventor's Typed Name

October 3, 2011
Date Application Signed



Inventor's Signature

3-21-2012

Date Assignment Signed

Sebastian Mittelstadt
Inventor's Typed Name

October 7, 2011
Date Application Signed

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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 legal representatives, to the full end of the term or terms for which said Letters 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;

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Inventor's Signature

03/22/2012

Date Assignment Signed

Daniel Keim

Inventor's Typed Name

October 5, 2011

Date Application Signed

Inventor's Signature

Date Assignment Signed

Inventor's Typed Name

Date Application Signed