

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Alexander Ulanov</td> <td>07/03/2012</td> </tr> <tr> <td>German Sapozhnikov</td> <td>07/03/2012</td> </tr> <tr> <td>Georgy Shevlyakov</td> <td>07/04/2012</td> </tr> </tbody> </table>		Name	Execution Date	Alexander Ulanov	07/03/2012	German Sapozhnikov	07/03/2012	Georgy Shevlyakov	07/04/2012
Name	Execution Date								
Alexander Ulanov	07/03/2012								
German Sapozhnikov	07/03/2012								
Georgy Shevlyakov	07/04/2012								
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>13543783</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13543783				
Property Type	Number								
Application Number:	13543783								
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:	3604 E. Harmony Road MS 35								
Address Line 2:	Intellectual Property Administration								
Address Line 4:	Fort Collins, COLORADO 80528								
NAME OF SUBMITTER:	Richard T. Ogawa								
Total Attachments: 4 source=82929190US01_A#page1.tif source=82929190US01_A#page2.tif source=82929190US01_A#page3.tif source=82929190US01_A#page4.tif									

CH \$40.00 13543783

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

PATENT APPLICATION

RECORD ID: 82929190

**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:

**MULTILABEL CLASSIFICATION BY A HIERARCHY**

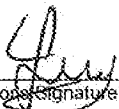
Filing Date: \_\_\_\_\_ Application No.: \_\_\_\_\_  
and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for said Letters Patent, and any and all Letters Patent of 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.

  
Inventor's Signature

Alexander Ulanov  
Inventor's Typed Name

3 July 2012  
Date Assignment Signed

3 July 2012  
Date Application Signed

  
Inventor's Signature

German Sapozhnikov  
Inventor's Typed Name

3 July 2012  
Date Assignment Signed

3 July 2012  
Date Application Signed

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

PATENT APPLICATION

RECORD ID: 82929190

ASSIGNMENT OF PATENT APPLICATION (cont.)

Inventor's Signature *Georgy Sheviyakov* Date Assignment Signed *04 July 2012*

Georgy Sheviyakov  
Inventor's Typed Name Date Application Signed *04 July 2012*

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 \_\_\_\_\_

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 \_\_\_\_\_

Inventor's Signature \_\_\_\_\_ Date Assignment Signed \_\_\_\_\_

Inventor's Typed Name \_\_\_\_\_ Date Application Signed \_\_\_\_\_

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

PATENT APPLICATION

RECORD ID: ..... 82929190 .....

ASSIGNMENT OF PATENT APPLICATION (cont.)

\_\_\_\_\_  
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

\_\_\_\_\_  
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

\_\_\_\_\_  
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

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

PATENT APPLICATION

RECORD ID: 82929190

ASSIGNMENT OF PATENT APPLICATION (cont.)

.....  
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

.....  
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

.....  
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