

## 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>Santosh G. Chinivar</td> <td>06/28/2013</td> </tr> <tr> <td>Subir Parulekar</td> <td>06/28/2013</td> </tr> <tr> <td>Lakshminarayana Mandaleeka</td> <td>06/28/2013</td> </tr> </tbody> </table>		Name	Execution Date	Santosh G. Chinivar	06/28/2013	Subir Parulekar	06/28/2013	Lakshminarayana Mandaleeka	06/28/2013
Name	Execution Date								
Santosh G. Chinivar	06/28/2013								
Subir Parulekar	06/28/2013								
Lakshminarayana Mandaleeka	06/28/2013								
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									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13931042</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13931042				
Property Type	Number								
Application Number:	13931042								
CORRESPONDENCE DATA									
Fax Number:	9707784063								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	(541)715-8443								
Email:	pto.assignments@hp.com								
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:	Jason P. Lorfing								
Signature:	/Jason P. Lorfing/								
Date:	07/08/2013								
Total Attachments: 2 source=00251740#page1.tif source=00251740#page2.tif									

CH \$40.00 13931042

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

PATENT APPLICATION

RECORD ID: 83272380

**ASSIGNMENT OF PATENT APPLICATION**

I/We, the undersigned (each) have agreed and hereby agree, that for good and valuable consideration, the receipt of which is hereby acknowledged, and in furtherance of my/our obligations to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Houston, Texas, (hereinafter HPDC), and to its subsidiaries and affiliates, to 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 Patent entitled:

**KEY RETRIEVAL**

Filing Date: HEREWITH 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 Patent, and any and all other Patent of any countries thereto which may be granted thereon or therefore; and any reissues, or reexaminations, or extensions of said Patent.


I/we additionally authorize HPDC to file applications in my/our name for 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 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 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 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 official of any country or countries 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 Patent for said invention(s) or improvement(s) 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 filing date and application number of said application for Patent, now identified by the Record ID and title set forth above, as soon as the same shall have been made known to them.

IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):

  
Inventor's Signature \_\_\_\_\_ Date 06/28/2013

Santosh G. Chinivar  
Inventor's Typed Name

  
Inventor's Signature \_\_\_\_\_ Date 06/28/2013

Subir Parulekar  
Inventor's Typed Name

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

PATENT APPLICATION

RECORD ID: 83272380

ASSIGNMENT OF PATENT APPLICATION (cont.)

H. Lakshminarayana \_\_\_\_\_ Date 06/28/2013

Lakshminarayana Mandaleeka  
Inventor's Typed Name

\_\_\_\_\_  
Inventor's Signature \_\_\_\_\_ Date

\_\_\_\_\_  
Inventor's Typed Name

\_\_\_\_\_  
Inventor's Signature \_\_\_\_\_ Date

\_\_\_\_\_  
Inventor's Typed Name

\_\_\_\_\_  
Inventor's Signature \_\_\_\_\_ Date

\_\_\_\_\_  
Inventor's Typed Name

\_\_\_\_\_  
Inventor's Signature \_\_\_\_\_ Date

\_\_\_\_\_  
Inventor's Typed Name

\_\_\_\_\_  
Inventor's Signature \_\_\_\_\_ Date

\_\_\_\_\_  
Inventor's Typed Name