ATTORNEY DOCKET NO.

10-25-2010

Patent and Trademark Office

DEPARTMENT OF COMMERCE 200701769-5 **REC** 103609716 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): MARK LILLIBRIDGE HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. VINAY DEOLAIKAR 11445 Compaq Center Drive West Houston, TX 77070

Additional name(s) of conveying party(ies) attached? Yes No	Additional name(s) and address(es) attached? Yes No	
3. Nature of Conveyance:		
✓ Assignment ☐ Merger ☐ Change of	f Name Security Agreement Joint	
Other		
Execution Date(s):09/16/2010; 09/21/2010		
4. Application number(s) or patent number(s):		
If this document is being filed together with a new application, execution date of the application is:		
A. Patent Application No.(s)		
Application No.: 12/988,365 Date Filed:	10/18/2010	
Confirmation No.: B. Patent No.	o.(s):	
Additional numbers attached? NO		
5. Name and address of party to whom correspondence	6. Total number of applications and patents involved:	
concerning document should be mailed:	7. Total Fee (37 CFR 3.41):\$40.00	
Records Manager Intellectual Property Administration HEWLETT-PACKARD COMPANY 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528	Enclosed	
	X Authorization to be charged to deposit account.	
	8. Deposit Account Number: <u>08-2025</u>	
9. Statement and signature.		
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.		

Dan C. Hu Name of Person Signing

10/21/2010

Total number of pages including coversheet, attachments, and documents:

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

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Rev 05/09 (RecdAsgn)

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

PATENT APPLICATION

ATTORNEY DOCKET NO. 200701769-5

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 obligation subsidiaries and affiliates, and do hereby assign and transfer to HPE title and interest, including the right of priority, in, to and under an apentitled: DATA PROCESSING APPARATUS AND METHOD OF PROCESSING APPARATUS A	DC, its successors and assigns, the entire right, oplication for Letters Patent of the United States
Filing Date: 12/988,365 Applica	tion No.: 10/18/2010
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/or held and enjoyed by HPDC, its successors, assigns, nominees or leg terms for which said Letters Patent respectively may be granted, resame would have been held and enjoyed by me/us had this assignme. AND I/we hereby covenant that I/we have full right to convert we 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 impleatent, to HPDC, its successors, assigns, nominees or legal represent. The HPDC, or to its nominee, all known facts respecting said invention(s) Letters Patent, to testify in any legal proceedings, to sign all lawful pacontinuations, C-I-P's, reissue and foreign applications, to make all rado everything possible to aid HPDC, its successors, assigns, nomenforce, for its or their own benefit, proper patent protection for said countries provided the expenses which may be incurred by me/us it 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 entering the result of the application aforesaid, in I/we further authorize and direct the attorneys of record to application now identified by the attorney docket number and title set been made known to them by the United States Patent and Tradema Amandal Aman	for said Letters Patent, and any and all Letters may be granted thereon or therefore; and any bur name for Letters Patent in any country, to be gal representatives, to the full end of the term or issued or extended, as fully and entirely as the ent, and transfer not been made; by the entire interest herein assigned, and that I/o therewith, and I/we further covenant and agree execute and deliver all such papers as may be provement(s), said application and said Letters is sentatives, and I/we agree to communicate to so or improvement(s), said application and said apers, to execute all disclaimers and divisionals, rightful oaths and declarations, and generally to hinees and legal representatives to obtain and divinvention(s) or improvement(s) in any and all nelending such cooperation and assistance are of Patents and Trademarks of the United States. States whose duty it is to issue patents on the Interest, any and all Letters Letters Patent of the United States which may accordance with the terms of this assignment, insert the serial number and filing date of said et forth above as soon as the same shall have rich Office. 9/16/2010
Inventor's Signature	Date Assignment Signed
Mark Lillibridge	9/16/2010
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Vinay Deolalikar	
Inventor's Typed Name	Date Application Signed

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PATENT REEL: 025199 FRAME: 0132 HEWLETT-PACKARD COMPANY intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado \$052\$

PATENT APPLICATION

ATTORNEY DOCKET NO.

200701769-5

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 Hevileti-Packard Company and its tille and interest, including the right of priority, in, to and under an application for Letters Patent of the United States

subsidiaries and affiliates, and do hereby assign and transfer to HPDC, its successors and assigns, the entire right, DATA PROCESSING APPARATUS AND METHOD OF PROCESSING DATA 12/988,365 Application No.: 10/18/2010 Filing Date: 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 live 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 liwe further coverant 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 live 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 melius 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, little 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 attorney docket number and title set form above as soon as the same shall have been made known to them by the United States Patent and Trademark Office. Date Assignment Signed inventor's Signature Mark Lillibridge Date Application Signed Inventor's Typed Name inventor's Signature Vinay Decialikar

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Rev 10/09 (Assessment)

inversor's Typed Name

REEL: 025199 FRAME: 0133