PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Leonard E Russo	04/10/2010
Walter A Gaspard	04/08/2010
Walter W Bellamy	04/08/2010

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

Property Type	Number
Application Number:	13639514

CORRESPONDENCE DATA

Fax Number: 9707784063

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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: Be Henry

Total Attachments: 2

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PATENT REEL: 029864 FRAME: 0989

Rev 10/08 (Assignment)

PATENT APPLICATION

ATTORNEY DOCKET NO.

201000350-1

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: NON-VOLATILE CACHE 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 Lotters Patent, to teatify in any logal proceedings, to eign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful caths 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 attorney docket number 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. NEWITNESS WHEREOF, I/we bereunto set my/our hand(s) and seal(s): Inventor's Signature (Seal) Leonard E. Russo Application Signed inventor's Typed Name State of 355. County of) , personally appeared Leonard E. Russo who is personally Refore me this known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed. Notary Public

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PATENT REEL: 029864 FRAME: 0990

My Commission Expires

HEWLETT-PACKARD COMPANY Intellectual Property Administrator P.O. Box 272400 Fort Collins, Colorado 80527-2400

PATENT APPLICATION

ASSIGNMENT OF PATENT APPLICATION (cont.)

Wate 11 Dear	<u> </u>	04/08/2010	
Inventor's Signature (Seal)	and a state of the	Date Assignment Signed	
Walter A. Gaspard		9/08/2010	
Inventor's Typed Name		Date Application Signed	
ON THE STATE OF TH	ŵ.		
State of) ss.:	s ₩	
County of	5		
Before me this day of	, personally appeared	Walter A. Gaspard who is personally	
known or proved to me on the basis	of satisfactory evidence to be to	Walter A. Gaspard who is personally he person who acknowledged the foregoing instrument of	
assignment to be his/her free act and o	leed.		
		Notary Public My Commission Expires	
at a			
11/16/10/00/11		h al a mara	
Valle W. Hills	(may	april \$,2010	
inventor's Signature (Seal)	1	Date Assignment Signed	
Walter W. Bellamy	** ***	Upil 6,2010	
Inventor's Typed Name		Date Application Signed	
		*	
State of)		
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Before me this day of	, personally appeared	Watter W. Bellarny who is personally he person who acknowledged the foregoing instrument of	
assignment to be his/her free act and to		the because with accordance and in editing was rusting it of	
		Notary Public	
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Inventor's Typed Name		Date Application Signed	
State of	j.		
State Of) ss.:		
County of	Ý		
Before me this day of	, personally appeared	who is personally	
known or proved to me on the basis	of satisfactory evidence to be	the person who acknowledged the foregoing instrument of	
assignment to be his/her free act and	deed.		
		Notary Public My Commission Expires:	
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RECORDED: 02/25/2013