PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Onur Kocberber	01/30/2013
Kevin T. Lim	01/30/2013
Parthasarathy Ranganathan	01/30/2013

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

Property Type	Number
Application Number:	13754758

CORRESPONDENCE DATA

9707784063 Fax Number:

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 Fort Collins, COLORADO 80528 Address Line 4:

NAME OF SUBMITTER: Steven L. Nichols

Total Attachments: 3

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PATENT

REEL: 029728 FRAME: 0230

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

RECORD ID:	83140954
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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 METHOD OF USING A BUFFER WITHIN AN INDEXING ACCELERATOR DURING PERIODS OF INACTIVITY Filling Date: Danuary 30, 2013 Application No.: 13/ 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. l/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 paths 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 live 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. live 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. WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s): 01/30/2013 Onur Kocherber Inventor's Typed Name Inventor's Signature Date Kevin T. Lim Inventor's Typed Name

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HEWLETT-PACKARD COMPANY

PATERIT	ADDS	7.00	58	25

3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528	RECORD	o ip: <u>83140954</u>
1	ASSIGNMENT OF PATENT APPLIC	CATION
receipt of which is hereby a DEVELOPMENT COMPANY, Texas, (hereinafter HPDC), an assigns, the entire right, title a entitled:	I (each) have agreed and hereby agree, the cknowledged, and in furtherance of my/ L.P., a Texas Limited Partnership having it to its subsidiaries and affiliates, to assign and interest, including the right of priority, ER WITHIN AN INDEXING ACCELERATOR	at for good and valuable consideration, the four obligations to HEWLETT-PACKAR its principal place of business in Houston and transfer to HPDC, its successors and in, to and under an application for Pater
divisionals, and renewals of an	Application to the remain and the remain (s) set forth therein, and any and all disubstitutes for said application for said Pigranted thereon or therefore; and any reissu	continuations, continuations-in-part (C-I-P's Patent, and any and all other Patent of ar
by HPDC, its successors, assig Patent respectively may be grain	IPDC to file applications in my/our name for ins, nominees or legal representatives, to the nted, reissued or extended, as fully and entinent, and transfer not been made;	full end of the term or terms for which sa
executed and will not execute at time a request is made, and with perfect the title to said invention nominees or legal representative said invention(s) or improvement papers, to execute all disclaim- rightful oaths and declarations, and legal representatives to obta	that I/we have full right to convey the entire in ny agreement in conflict herewith, and I/we ful nout undue delay, execute and deliver all such (s) or improvement(s), said application and si es, and I/we agree to communicate to HPDC, it(s), said application and said Patent, to testi ers and divisionals, continuations, C-I-P's, in and generally to do everything possible to a ain and enforce, for its or their own benefit, or I countries provided the expenses which in paid by HPDC;	irther covenant and agree that I/we will, each papers as may be necessary or desirable aid Patent, to HPDC, its successors, assign, or to its nominee, all known facts respectify in any legal proceedings, to sign all law lessue and foreign applications, to make sid HPDC, its successors, assigns, nomineer oper patent protection for said invention(s)
	and request the official of any country or country or country to the entire right,	

I/we further authorize and direct the attorneys of record to insert the filling 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.

invention(s) or improvement(s) which may be issued and granted on or as a result of the application aforesaid, in

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

accordance with the terms of this assignment.

Inventor's Signature	***************************************	Date	
Onur Kocherber			
Inventor's Typed Name Urm L. Lim		1/30/13	
Inventor's Signature		Date	
Kevin T. Lim Inventor's Typed Name			
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HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35

PATENT APPLICATION

Fort Collins, Colorado 80528	RECORD ID:	83140954
Manufacture and the second	IENT OF PATENT APPLICATION (cont.)
Margar		80/2013
Inventor's Signature	Date	•
Parthasarathy Ranganathan Inventor's Typed Name		
Inventor's Signature	Date	
Inventor's Typed Name		
Inventor's Signature	Date	
Inventor's Typed Name		
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