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. Name of conveying party(ies):	1 03532231 2. Name and address of receiving party(ies):
Hame of conveying party(les).	
Ryan L. AKKERMAN	HEWLETT-PACKARD DEVELOPMENT COMPANY, L.I 20555 SH 249 Houston, TX 77070
Harvey RAY	
Additional name(s) of conveying party(ies) attached? Nature of Conveyance:	es 🗵 No Additional name(s) and address(es) attached? 🔲 Yes 🗵 No
	Change of Name Security Agreement Joint
Other	
A. Patent Application No.(s)	ate Filed: October 1, 2008
Application No.: 12/243,420 D	ate 1 1100. October 1, 2000
	. Patent No.(s):
	, .
Confirmation No.: 1193 B. Additional numbers attached? NO Name and address of party to whom corresponde	Patent No.(s): nce 6. Total number of applications and patents involved: 1
Confirmation No.: 1193 B. Additional numbers attached? NO Name and address of party to whom corresponde concerning document should be mailed:	. Patent No.(s):
Confirmation No.:1193 B. Additional numbers attached? NO Name and address of party to whom corresponde concerning document should be mailed: Records Manager Intellectual Property Administration	Patent No.(s): nce 6. Total number of applications and patents involved: 1
Confirmation No.:1193 B. Additional numbers attached? NO Name and address of party to whom corresponde concerning document should be mailed: Records Manager	Patent No.(s): 6. Total number of applications and patents involved: 1 7. Total Fee (37 CFR 3.41):\$40.00
Confirmation No.:1193 B. Additional numbers attached? NO Name and address of party to whom corresponde concerning document should be mailed: Records Manager Intellectual Property Administration HEWLETT-PACKARD COMPANY P.O. Box 272400 Fort Collins, Colorado 80527-2400	Patent No.(s): 6. Total number of applications and patents involved: 7. Total Fee (37 CFR 3.41):\$40.00 Enclosed
Confirmation No.:1193 B. Additional numbers attached? NO Name and address of party to whom corresponde concerning document should be mailed: Records Manager Intellectual Property Administration HEWLETT-PACKARD COMPANY P.O. Box 272400 Fort Collins, Colorado 80527-2400 Statement and signature.	Patent No.(s): 6. Total number of applications and patents involved:1 7. Total Fee (37 CFR 3.41):\$40.00 EnclosedX_Authorization to be charged to deposit account.
Confirmation No.:1193 B. Additional numbers attached? NO Name and address of party to whom corresponde concerning document should be mailed: Records Manager Intellectual Property Administration HEWLETT-PACKARD COMPANY P.O. Box 272400 Fort Collins, Colorado 80527-2400 Statement and signature.	Patent No.(s): 6. Total number of applications and patents involved:1 7. Total Fee (37 CFR 3.41):\$40.00 Enclosed X_Authorization to be charged to deposit account. 8. Deposit Account Number: <u>08-2025</u>
Confirmation No.:1193 Additional numbers attached? NO Name and address of party to whom corresponde concerning document should be mailed: Records Manager Intellectual Property Administration HEWLETT-PACKARD COMPANY P.O. Box 272400 Fort Collins, Colorado 80527-2400 Statement and signature. To the best of my knowledge and belief, the forego	Patent No.(s): 6. Total number of applications and patents involved:1 7. Total Fee (37 CFR 3.41):\$40.00 Enclosed X_Authorization to be charged to deposit account. 8. Deposit Account Number: <u>08-2025</u>

Rev 10/07 (RecdAsgn)

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

Rev 10/07 (Assignment)

PATENT APPLICATION

200803172-1 ATTORNEY DOCKET NO. _

ASSIGNMENT OF PATENT APPLICATION

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 lassigns, 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:

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD Method to Improve Operating Performance of a Computing Device Filing Date: 10-01-08 Application No.: 12/243,420 and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-l-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 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 VITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s): 10-1-08

Date Assignment Signed 10-1-08 Rvan L. Akkerman Date Application Signed Inventor's Typed Name State of County of Before me this , personally appeared day of Ryan L. Akkerman 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

Page 1 of 2

Notary Public My Commission Expires

PATENT

REEL: 021753 FRAME: 0434

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

PATENT APPLICATION

ATTORNEY DOCKET NO. ______ 200803172-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

170000	T K	10/1/2008
Inventor's Signature (Seal)		Date Assignment Signed
Harvey Ray		
Inventor's Typed Name		Date Application Signed
State of)) ss.:	
County of)	
Before me thisday of	, personally appeared	Harvey Ray who is personally
known or proved to me on 'assignment to be his/her free as		ne person who acknowledged the foregoing instrument of
		Notary Public
		My Commission Expires:
Inventor's Signature (Sea)		Date Assignment Signed
Inventor's Typed Name		Date Application Signed
State of)	
County of) ss.:	
•	,	1 :
		who is personally the person who acknowledged the foregoing instrument of
		Notary Public
		My Commission Expires:
Inventor's Signature (Seal)		Date Assignment Signed
Inventor's Typed Name		Date Application Signed
State of)	
County of) ss.: }	
Before me this day of	, personally appeared	who is personall
known or proved to me or assignment to be his/her from		he person who acknowledged the foregoing instrument o
		Notary Public
	B	My Commission Expires.
Nev 10/07 (Assignment)	Page 2 of 2	

PATENT REEL: 021753 FRAME: 0435

RECORDED: 10/23/2008