ATTORNEY DOCKET NO. 200700485-1

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

RECORDATION FORM COVER SHEET					
PATENTS ONLY					
1. Name of conveying party(ies): 1. Joseph A. Curcio, Jr. 2. Leonard Knapp 3. Manfred R. Arndt	2. Name and address of receiving party(ies):  HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. 20555 SH 249  Houston, TX 77070				
Additional name(s) of conveying party(les) attached? Yes No. 3. Nature of Conveyance:	Additional name(s) and address(es) attached? Yes No				
	f Name ☐ Security Agreement ☐ Joint				
Execution Date(s):1. 4/30/07; 2. 5/1/07; 3. 4/30/07  4. Application number(s) or patent number(s):  If this document is being filed together with a new application	on, execution date of the application is:				
A. Patent Application No.(s) Application No.: 11/742,573 Date Filed: 4/30/07  Confirmation No.: 5079 B. Patent No.(s):					
Additional numbers attached? <u>NO</u>					
5. Name and address of party to whom correspondence concerning document should be mailed:  Records Manager Intellectual Property Administration HEWLETT-PACKARD COMPANY P.O. Box 272400	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.				
Fort Collins, Colorado 80527-2400	8. Deposit Account Number: <u>08-2025</u>				
9. Statement and signature.  To the best of my knowledge and belief, the foregoing information copy of the original document.  Randy A. Noranbrock Name of Person Signing  Significant Statement and Signing Significant Signi	mation is true and correct and any attached copy is a true  5/15/07  Date				
Total number of pages including coversheet, attachments, and documents: 5					
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  Page 1 of 1					

Rev 10/06a (RecdAsgn)

PATENT REEL: 019298 FRAME: 0900 HEWLETT PACKARD COMPANY Intellectual Property Administrator P.O. Box 272400 Fort Collins, Colorado 80527-2400

Rev 10Hiby (Assignment)

PATENT APPLICATION

ATTORNEY DOCKET NO. \_\_\_\_\_200700485-1

## ASSIGNMENT OF PATENT APPLICATION

(each) have agreed and hereby agree to assign to HEWLETT-PACKARD

DEVELOPMENT COMPA Texas, (hereinalter HPD subsidiates and affiliates	<ul> <li>in furtherance of read do hereby assign and the right of priority, in, to</li> </ul>	d Partnership having its prir ny/our obligations to the t id transfer to HPDC, its succe and under an application to	icipal place of business in Houston, fewlett-Packard Company and its essors and assigns, the entire right, r Letters Patent of the United States
Filling Date:	4/30/07	Application No.:	11/742,573
and the invention(s) and in P's), divisionals, and rene Patent of the United Stat reissues, or reexamination I/we additionally held and enjoyed by HPD terms for which said Letter same would have been he AND I/we hereby we have not executed and that I/we will, each time a necessary or desirable to Patent, to HPDC, its such HPDC, or to its nominee, Letters Patent, to testify in continuations, C-I-P's, reido everything possible to enforce, for its or their or countries provided the expaid by HPDC;  AND I/we hereby and any official of any official of any official of any expelications as aforesaid Patent for said invention(be issued and granted on I/we further suit annotication now identified	improvement(s) set forth wals of and substitutes for as and of countries foreigns, or extensions of said Lauthorize HPDC to file ap C, its successors, assigns as Patent respectively make and enjoyed by me/us y covenant that I/we have d will not execute any agricultural request is made, and will perfect the title to said it cessors, assigns, nomine all known facts respecting any legal proceedings, to save and foreign applicational and HPDC, its successor benefit, proper patent spenses which may be incountry or countries foreign are incomed to the save to HPDC, as a so or improvement(s), income and direct the attorice and direct the attorice to the attorney docket if	therein, and any and all conters and application for said Lega thereto which may be gravitars Patent.  uplications in mylour name for said in pipe and applications in mylour name for some and the gravitars are granted, reissued or expense or legal represent full right to convey the entire rement in conflict herewith, inhout undue delay, execute an anvention(a) or improvement(assor legal representatives, or said invention(s) or improvement, assigns, nominees and protection for said invention curred by me/us in tending any all tenters with the uniter of the United States with saigne of the entire right, the luding any and all Letters Patents of record to insert the	linuations, continuations-in-part (C-i- iters Patent, and any and all Letters anted thereon or therefore; and any r Letters Patent in any country, to be statives, to the full end of the term or atended, as fully and entirely as the
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Before me thisday of	, personally ap	peared Joseph A	A. Curcio Tr who is personally who is personally obtained the foregoing instrument of
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Page 1 of 2

**PATENT REEL: 019298 FRAME: 0901**  HEWLETT-PACKARD COMPANY Intellectual Property Administrator P.O. Box 272400 Fort Collins, Colorado 80527-2400

PATENT APPLICATION

ATTORNEY DOCKET NO. 200700485-1

## ASSIGNMENT OF PATENT APPLICATION (cont.)

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Leonard Knapp			· · · · · · · · · · · · · · · · · · ·
Inventor's Typed Name		Date Application Signed	
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**PATENT** 

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

ATTORNEY DOCKET NO.

200700485-1

## **ASSIGNMENT OF PATENT APPLICATION**

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD

Texas, (hereinafter HPDC), subsidiaries and affiliates, and	in furtherance of my/our oblido hereby assign and transfer	igations to the Hewlett-Packard Company and its to HPDC, its successors and assigns, the entire right, r an application for Letters Patent of the United States
entitled:	ngin of phoney, in, to and unde	an application for Letters Faterit of the Officed Otalics
DYNAMIC MEMORY QUEUE	DEPTH ALGORITHM	
Filing Date: 4/30/07	A	pplication No.: 11/742,573
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P's), divisionals, and renewals	of and substitutes for said appl	lication for said Letters Patent, and any and all Letters
Patent of the United States as	nd of countries foreign thereto	which may be granted thereon or therefore; and any
reissues, or reexaminations, or	r extensions of said Letters Pate	n. n·my/our name for Letters Patent in any country, to be
held and enjoyed by HPDC, its terms for which said Letters P same would have been held an AND I/we hereby cov we have not executed and will that I/we will, each time a requirecessary or desirable to perf Patent, to HPDC, its successified HPDC, or to its nominee, all k Letters Patent, to testify in any continuations, C-I-P's, relsaue do everything possible to aid enforce, for its or their own becountries provided the expensional by HPDC;  AND I/we hereby authand any official of any count applications as aforesaid, to is Patent for said invention(s) or be issued and granted on or as	s successors, assigns, nomineer attent respectively may be granted enjoyed by me/us had this astenant that I/we have full right to not execute any agreement in lest is made, and without undue fect the title to said invention(s) ors, assigns, nominees or legal movement facts respecting said inventions, assigns, to sign all lay and foreign applications, to man HPDC, its successors, assignenefit, proper patent protection has which may be incurred by morize and request the Commissing or countries foreign to the saue to HPDC, as assignee of improvement(s), including any is a result of the application afores	s or legal representatives, to the full end of the term or ted, reissued or extended, as fully and entirely as the signment, and transfer not been made; oconvey the entire interest herein assigned, and that I/conflict herewith, and I/we further covenant and agree delay, execute and deliver all such papers as may be or improvement(s), said application and said Letters if representatives, and I/we agree to communicate to ention(s) or improvement(s), said application and said wful papers, to execute all disclaimers and divisionals, ke all rightful oaths and declarations, and generally to s, nominees and legal representatives to obtain and for said invention(s) or improvement(s) in any and all ne/us in lending such cooperation and assistance are united States whose duty it is to issue patents on the entire right, title and interest, any and all Letters and all Letters Patent of the United States which may esaid, in accordance with the terms of this assignment.
		ord to insert the serial number and filing date of said title set forth above as soon as the same shall have
	the United States Patent and Tra	
IN WITNESS WHEREO	F, I/we hereunto set my/our hand	s) and seal(s):
Inventor's Signature (Seal)		Date Assignment Signed
Joseph A. Curcio		
Inventor's Typed Name		Date Application Signed
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Before me this day of	, personally appeared	Joseph A. Curcio who is personally
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Day 10/08o (Apaignage)	Page 1 of 2	My Commission Expires:
Rev 10/08a (Assignment)		•

**PATENT REEL: 019298 FRAME: 0903**  HEWLETT-PACKARD COMPANY Intellectual Property Administrator P.O. Box 272400 Fort Collins, Colorado 80527-2400

**PATENT APPLICATION** 

ATTORNEY DOCKET NO. \_\_\_

200700485-1

## ASSIGNMENT OF PATENT APPLICATION (cont.)

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Inventor's Signature (Seal)		Date Assignment/Signed	<u> </u>
Lagrand Knopa		May 1, 2007	ı
Leonard Knapp Inventor's Typed Name		Date Application Signed	
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Manfred R. Arndt			
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Rev 10/06c (Aasignment)	Page 2 of 2	ing continuous expires.	

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**RECORDED: 05/15/2007**