FORM PTO-1595	: U - Z /	-2003	U.S. DEPARTMENT OF COMM	1ERCE
1-31-92 RE(iii ii		Patent and Trademark	Office
. 10-15-03	10050		Attorney Docket No. 10014246	-1
Name of conveying party(ies):	_	34988 2. Name and _	ass of receiving party(ies):	
Manoj K. Bhattacharyya;			ACKARD DEVELOPMENT COMPANY	, L.P.
Thomas C. Anthony; and		20555 SH 24	19	
Anthony P. Holden		Houston, TX	2/1070	
	V Y 11	Addising the second of	17510 USP	10/686271
Additional name(s) of conveying party(ies) attached _ 3. Nature of Conveyance:	Yes X No	Additional name(s) &	& address(es) attached?Yes _X No	
·	Margor		Change of Name	
X Assignment	Merger		Change of Name	
Security Agreement	Other			
Execution Date(s): Oct. 7, 2003; Oct. 7, 2	2003; and Oct.	13, 2003		
4. Application number(s) or patent number	(s): / /	(6.1071		
If this document is being filed together wi	th a new appli	as 627/	date of the application is: Oct.13,20	003
A. Patent Application No.(s)			B. Patent No.(s)	
Application No.:	Date Filed:			
Confirmation No.:	dditional numbe	ers attached? <u>NO</u>	<u>-</u>	
5. Name and address of party to whom co concerning document should be mailed		ondence 6. Total number of applications and patents involved: 1		:1
Records Manager		7. Total Fee (37 CFR 3.41): \$40.00		
Intellectual Property Administration HEWLETT-PACKARD COMPANY		Enclos	sed	
P.O. Box 272400 Fort Collins, Colorado 80527-2400		X Authorization to be charged to deposit account.		
	8. Deposit Account Number: 08-20		ount Number: <u>08-2025</u>	
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9. Statement and signature.			· · · · · · · · · · · · · · · · · · ·	
To the best of my knowledge and belief,	the foregoing i	nformation is true	and correct and any attached copy	is a
true copy of the original document.	2 0			
	M-		10686271	
Matthew B. McNutt	11/5/1	SMA	Oct 15, 2003	
Name of Person Signing	Signature		Date Date	
Total number	r of pages includ	ling cover sheet, att		
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Fort Collins, Colorado 80527-2400

PATENT APPLICATION

HEWLETT-PACKARD COMPANY Intellectual Property Administrator P. O. Box 272400

ATTORNEY DOCKET NO. 10014246-1

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:

METHOD FOR READ	ING MEMORY CELLS		
Filing date:		Application No.:	
continuations-in-part Letters Patent, and a	(C-l-P's), divisionals, and re iny and all Letters Patent of t	newals of and substi he United States and	nd any and all continuations, tutes for said application for said of countries foreign thereto which ons, or extensions of said Letters
country, to be held a the full end of the te	and enjoyed by HPDC, its suc erm or terms for which said l and entirely as the same wo	ccessors, assigns, nor Letters Patent respect	name for Letters Patent in any minees or legal representatives, to ively may be granted, reissued or and enjoyed by me/us had this
that I/we have not e covenant and agree deliver all such pap improvement(s), said legal representatives respecting said inver legal proceedings, to C-I-P's, reissue and everything possible tand enforce, for its oin any and all cour	executed and will not execut that I/we will, each time a rears as may be necessary of application and said Letters and I/we agree to committion(s) or improvement(s), so sign all lawful papers, to foreign applications, to make to aid HPDC, its successors, or their own benefit, proper p	re any agreement in cequest is made, and we redesirable to perfect Patent, to HPDC, its unicate to HPDC, or aid application and sa execute all disclaimes all rightful oaths and assigns, nominees a patent protection for si	ntire interest herein assigned, and onflict herewith, and I/we further without undue delay, execute and to the title to said invention(s) or successors, assigns, nominees or to its nominee, all known facts id Letters Patent, to testify in any rs and divisionals, continuations, declarations, and generally to do nd legal representatives to obtain aid invention(s) or improvement(s) curred by me/us in lending such
States and any offici patents on applicatio any and all Letters P the United States w	al of any country or countrie ins as aforesaid, to issue to l atent for said invention(s) or	es foreign to the Unite HPDC, as assignee of improvement(s), inclu	nts and Trademarks of the United d States whose duty it is to issue the entire right, title and interest, Iding any and all Letters Patent of It of the application aforesaid, in
said application now	orize and direct the attorneys identified by the attorney d n made known to them by the	locket number and tit	he serial number and filing date of le set forth above as soon as the t and Trademark Office.
IN WITNESS WH	IEREOF, I/we hereunto set m	y/our hand(s) and sea	l(s):
Inventor's Signature (Seal)	allange Date	Assignment Signed:	oct.7,2003
Inventor's Typed Name: N	lanoj K. Bhattacharyya	Date Application S	Signed: 001.7, 200 3
State of)		3
County of) ss.: }		
personally known or prov	day of, personal day of, personal day of satisfact to be his/her free act and deed.	onally appeared <u>Manof</u> ctory evidence to be the	K. Bhattacharyya who is person who acknowledged the foregoing
			Notary Public My commission expires:
Rev 10/03 (Assign)	(Use Page Two For Additional inv	ventor(s) Signature(s))	Page 1 of 2

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PATENT APPLICATION ATTORNEY DOCKET NO. 10014246-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I/we hereu	nto set my	our hand(s) and sea	al(s):	
1 00	1			
Mouar (Mitt	ween	Sate Assignment Signed:	Oct.	7 2002
Inventor's Signature (Seal)		5		-
Inventor's Typed Name: Thomas C. Anthony	<u>, </u>	Date Applic	$\frac{\mathcal{O}\mathcal{C}f}{\mathcal{C}f}$	7,2003
State of)			
County of) ss.:)			
Before me this day of	basis of sat act and deed.	personally appeared	Thomas C, Anthony the person who ackno	who is whedged the foregoing
			Notary Public My commission expir	es:
		Pate Assignment Signed:		
Inventor's Signature (Seal)				
Inventor's Typed Name: Anthony P. Holden		Date Applic	ation Signed:	
State of)			
County of) ss.: }			
Before me this day of personally known or proved to me on the instrument of assignment to be his/her free a	basis of sati	ersonally appeared	Anthony P. Holden the person who ackno	who is wledged the foregoing
			Notary Public	
			My commission expire	es:
	D	eta Assissanous Ciscosio		
Inventor's Signature (Seal)		ate Assignment Signed:		
Inventor's Typed Name:		Date Applica	ation Signed:	
-				
State 01)) ss.:			
County of)			
Before me this day of personally known or proved to me on the instrument of assignment to be his/her free a	basis of satisect and deed.	ersonally appeared factory evidence to be	the person who ackno	who is wledged the foregoing
			Notary Public My commission expire	s:
(Use Page Th	ree For Addition	al Inventor(s) Signature(s))		Page 2 of 2

PATENT APPLICATION

ATTORNEY DOCKET NO. 10014246-1

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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:

application for Letters Pa	tent of the United States	entitled:
METHOD FOR READING	MEMORY CELLS	
Filing date:		Application No.:
continuations-in-part (C- Letters Patent, and any	I-P's), divisionals, and re and all Letters Patent of th	et forth therein, and any and all continuations, newals of and substitutes for said application for said ne United States and of countries foreign thereto which sues, or reexaminations, or extensions of said Letters
country, to be held and the full end of the term	enjoyed by HPDC, its suc or terms for which said L entirely as the same wo	oplications in my/our name for Letters Patent in any cessors, assigns, nominees or legal representatives, to etters Patent respectively may be granted, reissued or buld have been held and enjoyed by me/us had this
that I/we have not exect covenant and agree that deliver all such papers improvement(s), said ap legal representatives, a respecting said invention legal proceedings, to si C-I-P's, reissue and fore everything possible to a and enforce, for its or the	euted and will not execute the live will, each time a reason as may be necessary or plication and said Letters and I/we agree to community or improvement(s), so an all lawful papers, to ign applications, to make aid HPDC, its successors, heir own benefit, proper pas provided the expense	right to convey the entire interest herein assigned, and any agreement in conflict herewith, and I/we further equest is made, and without undue delay, execute and desirable to perfect the title to said invention(s) or Patent, to HPDC, its successors, assigns, nominees or unicate to HPDC, or to its nominee, all known facts aid application and said Letters Patent, to testify in any execute all disclaimers and divisionals, continuations, all rightful oaths and declarations, and generally to do assigns, nominees and legal representatives to obtain atent protection for said invention(s) or improvement(s) is which may be incurred by me/us in lending such
States and any official of patents on applications any and all Letters Pater	of any country or countrie as aforesaid, to issue to h nt for said invention(s) or n may be issued and gra	Commissioner of Patents and Trademarks of the United s foreign to the United States whose duty it is to issue HPDC, as assignee of the entire right, title and interest, improvement(s), including any and all Letters Patent of nted on or as a result of the application aforesaid, in
said application now ide	entified by the attorney d	s of record to insert the serial number and filing date of ocket number and title set forth above as soon as the United States Patent and Trademark Office.
IN WITNESS WHER	EOF, I/we hereunto set m	y/our hand(s) and seal(s):
	Date	Assignment Signed:
Inventor's Signature (Seal)		Data Application Clausele
Inventor's Typed Name: Mano	K. Bhattacharyya	Date Application Signed:
State of) ss.:	
County of)	
Before me thisday personally known or proved instrument of assignment to be	to me on the basis of satisfac	onally appeared <u>Manoj K. Bhattacharyya</u> who is story evidence to be the person who acknowledged the foregoing
		Notary Public My commission expires:

Rev 10/03 (Assign)

(Use Page Two For Additional Inventor(s) Signature(s))

Page 1 of 2

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PATENT APPLICATION ATTORNEY DOCKET NO. 10014246-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOI	, I/we hereunto set r	my/our hand(s) and seal(s):	
	·	Date Assignment Signed:	
Inventor's Signature (Seal)			
Inventor's Typed Name: Tho	mas C. Anthony	Date Application Sign	ed:
State of)		
County of	} ss.:		
•	, of	normanally appeared Theres O	Australia in
personally known or proved instrument of assignment to			. Anthony who is son who acknowledged the foregoing
			Notary Public My commission expires:
Inventor's Signature (Seal)	PHOLO	Date Assignment Signed:	0/13/2003
Inventor's Typed Name: Ant	hony P. Holden	Date Application Sign	ed: 10/13/2003
State of	}		
County of) ss.:)		
Before me this day personally known or proved instrument of assignment to	to me on the basis of		P. Holden who is son who acknowledged the foregoing
			Notary Public My commission expires:
Inventor's Signature (Seal)	Water and	Date Assignment Signed:	
Inventor's Typed Name: State of)	Date Application Sign	ed:
County of) ss.:		
•	,		
personally known or proved instrument of assignment to			who is on who acknowledged the foregoing
			lotary Public fy commission expires:
	(Use Page Three For Add	litional inventor(s) Signature(s))	Page 2 of 2

RECORDED: 10/15/2003

Rev 10/03 (Assign)