. ~ 1/25/05	_			
FORM PTO-1595 1-31-92	02-08-200	E		IENT OF COMMERCE and Trademark Office No. <u>200405712-1</u>
1. Name of conveying party(ies).	10293020	2. Name and	address of receiving par	ty(ies):
Randy Hoffman Peter Mardilovich Gregory Herman		HEWLETT- 20555 SH Houston, T		ENT COMPANY, L.S. PTO 1/043647 - T.B.
Additional name(s) of conveying party(ies) a	attachedYes _X_No	Additional name(s	s) & address(es) attached?	YesX No
3. Nature of Conveyance:				
X Assignment	Merger		Change of Name	)
Security Agreement	Other			
Execution Date(s): 01/21/2005; 01		5		
4. Application number(s) or patent	number(s):			
If this document is being filed toge	ether with a new applic	cation, executio	n date of the applicatio	n is: 01/25/2005
A. Patent Application No.(s)			B. Patent No.	(s)
Application No.:	Date Filed:			
Confirmation No.:	Additional number	ers attached?	10	
5. Name and address of party to w concerning document should be	hom correspondence mailed:	6. Total numbe	er of applications and pa	atents involved: 1
Records Manager Intellectual Property Administration HEWLETT-PACKARD COMPANY P.O. Box 272400 Fort Collins, Colorado 80527-2400		Encl	7 CFR 3.41): \$40  osed  norization to be charged	
		8. Deposit Acc	count Number: _08-202	25
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9. Statement and signature.  To the best of my knowledge and true copy of the original document.	belief, the foregoing in		ue and correct and any	attached copy is a
Steven L. Nichols  Name of Person Signing  Total	Signature number of pages includ	ing cover sheet, a	Jan 25, 2 Date	
OMB No. 0651-0011 (exp. 4/94)	Do Not dot	h this martis		
Mail document to be recorded with req 07/2005 6T0H11 00000058 082025 1104 FC:8021 40.00 DA	uired cover sheet inform i3647 Mail Stop Assignme Director of the US Pal PO E	ent Recordation Sen		

Rev 12/04 (Recdasgn)

PATENT APPLICATION

ATTORNEY DOCKET NO. 200405712-1

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

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 Pater	nt of the United States entitled:	
Semiconductor Device	·	
Filing date:	Application No.:	
continuations-in-part (C-I-P' Letters Patent, and any and	d improvement(s) set forth therein, and any and all continues), divisionals, and renewals of and substitutes for said application for all Letters Patent of the United States and of countries foreign theretoe therefor; and any reissues, or reexaminations, or extensions of said	for said which
country, to be held and enj the full end of the term or	horize HPDC to file applications in my/our name for Letters Patent oyed by HPDC, its successors, assigns, nominees or legal representati terms for which said Letters Patent respectively may be granted, reistirely as the same would have been held and enjoyed by me/us hot been made;	ives, to sued or
that I/we have not execute covenant and agree that I/we deliver all such papers as improvement(s), said applic legal representatives, and respecting said invention(s) legal proceedings, to sign C-I-P's, reissue and foreign everything possible to aid and enforce, for its or their	and that I/we have full right to convey the entire interest herein assigned and will not execute any agreement in conflict herewith, and I/we we will, each time a request is made, and without undue delay, executed may be necessary or desirable to perfect the title to said inventionation and said Letters Patent, to HPDC, its successors, assigns, nominally we agree to communicate to HPDC, or to its nominee, all known or improvement(s), said application and said Letters Patent, to testify all lawful papers, to execute all disclaimers and divisionals, continuapplications, to make all rightful oaths and declarations, and generally HPDC, its successors, assigns, nominees and legal representatives to own benefit, proper patent protection for said invention(s) or improve provided the expenses which may be incurred by me/us in lending are paid by HPDC;	further ute and on(s) or nees or n facts in any uations, by to do obtain ment(s)
States and any official of a patents on applications as any and all Letters Patent f	orize and request the Commissioner of Patents and Trademarks of the ny country or countries foreign to the United States whose duty it is taforesaid, to issue to HPDC, as assignee of the entire right, title and in said invention(s) or improvement(s), including any and all Letters Paray be issued and granted on or as a result of the application afores of this assignment.	to issue nterest, atent of
said application now identif	and direct the attorneys of record to insert the serial number and filing fied by the attorney docket number and title set forth above as soon known to them by the United States Patent and Trademark Office.	date of as the
IN WITNESS WHEREOF	F, I/w e hereunto set my/our hand(s) and seal(s);	
M. Me	Date Assignment Signed: 112105	
Inventor's Signature (Seal)	1/21/15	
Inventor's Typed Name: Randy Ho	offman Date Application Signed:	<del></del>
State of	)	
County of	) ss.: )	
Perfore me this day of personally known or proved to r instrument of assignment to be his	me on the basis of satisfactory evidence to be the person who acknowledged the	who is foregoing
•	Notary Public My commission exptres;	

Fage 1 of 2

When recorded please return to:

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Fort Collins, Colorado 80527-2400

	PATEN	T APPLICATION	
ATTORNEY	DOCKET NO.	200405712-1	

## ASSIGNMENT OF PATENT APPLICATION (cont.)

Inventor's Typed Name: Date Application Signed: State of ) ss.:  County of personally appeared who appeared who appeared to me on the basis of satisfactory evidence to be the person who acknowledged the foregoin	IN WITNESS WHER	EOF, I/we hereunto set	my/our hand(s) and seal(s):	
Inventor's Typed Name: Peter Mardiovich  Date Application Signed:  Date Assignment Signed:  Date Application Signed:  Date			anning spectra at the first	1011-
Inventor's Typed Name: Peter Mardiovich  Date Application Signed: 21/21/05  Before me thisday of	Inventor's Signature (Se	all	Date Assignment Signed:	12/05
State of   )   3-5	The state of the s	Annual to the care of the property of	Data Application Clay-de	
Bafore me this day of personally appeared Peter Marchiovich who personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoin instrument of assignment to be his/her free act and deed.    Natary Rubic   Natary Ru	inventor's Typed Name:	reter marchovers	Date Application Signed:	
Before me this	State of	)		
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.    Notery Public	County of	) \$5.: )		
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Date Assignment Signed: 21/24/05  Inventor's Signature (Seal)  Inventor's Typed Name: Gregory Herman  Date Application Signed: 2/24/05  Date Assignment to be the person who acknowledged the foregoin instrument of assignment to be his/her free act and deed.  Date Assignment Signed: Notes Public My commission expires:  Date Application Signed: State of ) ss.:  County of ) ss.:  Date Application Signed: who acknowledged the foregoin instrument of assignment to be his/her free act and deed.	personally known or pr	oved to me on the basis o	f satisfactory evidence to be the person	
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Inventor's Signature (Seal)    Date Application Signed:	1			
State of ) ss.:  County of ) ss.:  Before me this day of personally appeared Grecory Herman who personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoin instrument of assignment to be his/her free act and deed.    Notery Public   Notery Public   My commission expires:	Inventor's Smature (Se	Leman	Date Assignment Signed: 01/Z	4/05
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Before me this day of personally appeared Gregory Herman who personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoin instrument of assignment to be his/her free act and deed.    Noticy Public		Crogory recover	Date Application Signed.	
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personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoin instrument of assignment to be his/her free act and deed.    Notary Public   My commission expires:	County of	)		
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Date Assignment Signed:  Inventor's Signature (Seal)  Inventor's Typed Name:  Date Application Signed:  State of  )  State of  )  Before me this day of personally appeared who appears a personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoin instrument of assignment to be his/her free act and deed.  Notery Rublic My commission expires:				
Inventor's Signature (Seal)  Inventor's Typed Name:				
Inventor's Signature (Seal)  Inventor's Typed Name:				
State of ) ) ss.:  County of )  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 Rubble My commission expires:	Inventor's Signature (Sea	a))	Date Assignment Signed:	
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My commission expires:	personally known or pro	oved to me on the basis of	satisfactory evidence to be the person	who acknowledged the foregoing
(Use Page Three For Additional Inventor(s) Signature(s)) Page 2 of 2	·			
		(Use Page Three For A	dditional Inventor(s) Signature(s))	Page 2 of 2

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