-ORM PTO-1595	,			S. DEPARTMENT OF COMMERC
1-31-92	Ředori	DATION FOR	M COVER SHEET	Patent and Trademark Off
		PATENTS C	MLY	Attorney Docket No. 100204083-1
1. Name of conveying part	y(ies);		2. Name and add	ress of receiving party(les):
Peter G. Hwang	4-2-03		HEWLETT-PACKARD DEVELOPMENT COMPANY	
Le Pham	4-1-03		intellectual Property Administration P.O. Box 272400 Fort Collins, Colorado 80527-2400	
Jeffrey J. Grange	4.3.03			
Ray Sherman	60.1.4			
Daniel R. Dwyer	4.3.03			
Joyce A. Chua	4.5.03			
Additional name(s) of conveying	party(les) áttached	<u>X_Yes No</u>	Additional name(s) &	address(es) atteched?Yes _X No
3. Nature of Conveyance:				
X Assignment		Merger		Change of Name
Security Agree	ment	Other		
Execution Date(s): O4/	1-3/2003			
4. Application number(s) o		¥):		
If this document is being			cation, execution d	late of the application is:
A. Patent Application No.				B. Patent No.(s)
, , , , , , , , , , , , , , , , , , ,				, ,
Application No.: 29/179	6 70 €	Date Filed: O	1/11/2003	
Confirmation No.:)용이니	Ade	ditional numb	ere attached? NO	
5. Name and address of p concerning document s	arty to whom cor	respondence	5. Total number o	of applications and patents involved:
Records Manager	ilidalid boʻlilalida.		7. Total Fee (37 (CFR 3.41): \$40.00
Intellectual Property Administration			Enclose	eri
HEWLETT-PACKARD C P.O. Box 272400	OMPANY			
Fort Collins, Colorado	80527-2400		_X Author	zation to be charged to deposit accour
			8. Deposit Accor	int Number: 08-2025
		DO NOT US	E THIS SPACE	
9. Statement and signatur	e.			
To the best of my knowle true copy of the original d	edge and belief, to locument.	he foregoing	information is true	and correct and any attached copy is a
	-	PAtr	h)	10/27/03
Name of Person Signing		Signature		Date
Hattle of Lateou calling		_	ding cover sheet, stt	achments, and document: 5
OMB No. 0851-0011 (exp. 4		<u> </u>		
		Do Not deta	ch this portion	
Mail document to be reco	rded with require	d cover sheet	information to:	
Commissioner for Patents Box Assignment				
			on, D.C. 20231	
Par pz/03 (Recdeson)				

PATENT REEL: 014082 FRAME: 0306

FORM PTO-1695 1-31-92	RECORDATION FORM COVER SHI	Patent and Trademark Office Attorney Docket No. 100204083-1
1. Name of conveying party(les): Robert G. Fritz	03 HEWLET	d address of receiving party(les): T-PACKARD DEVELOPMENT COMPANY, L.P. us! Property Administration z 272400 lins, Colorado 80527-2400

Page 2 of 2

146+ 02/03 (Recordpg2)

PATENT **REEL: 014082 FRAME: 0307**

Rev 02/03 (Assign)

PATENT APPLICATION

ATTORNEY DOCKET NO. 100204083-1

When recorded please return to: , 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:					
PRINTER					
Filing date: 04/11/2003	Application No.: 29/179670				
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 Letters Patent, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor; 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.					
IN WITNESS WHEREOF, I/we hereunto set my/o					
Date As	signment Signed: 4/2/33				
The second secon	Date Application Signed: 4/2/53				
State of)					
) ss.: County of					
Before me this day of, personal personally known or proved to me on the basis of satisfactor instrument of assignment to be his/her free act and deed.	lly appeared <u>Peter G. Hwang</u> who is y evidence to be the person who acknowledged the foregoing				
	Notary Public				

Notary Public My commission expires:

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

Page 1 of 3

When recorded please return to:

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

PATENT APPLICATION ATTORNEY DOCKET NO. 100204083-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I/we hereunto	set my/our hand(s) and seal(s):
to all and	Date Assignment Signed:
Inventor's Signature (Seal)	
nventor's Typed Name: Le Pham	Date Application Signed: 64/01/2003
State of)	S5.:
County of)	
Before me this day of personally known or proved to me on the bai instrument of assignment to be his/her free act in	personally appeared <u>Le Pham</u> who is sign of satisfactory evidence to be the person who acknowledged the foregoing and deed.
	Notary Public
	My commission expires:
nventer's Signature (Seal)	Date Assignment Signed: 4/3/63
nventor's Typed Name: Jeffrey J. Grange	Date Application Signed: 4/3/6/3
State of)	• •
ounty of)	55. :
Before me thisday of ersonally known or proved to me on the ba astrument of assignment to be his/her free act a	personally appeared <u>Jeffrey J. Granos</u> who is sis of satisfactory evidence to be the person who acknowledged the foregoing and deed.
	Notary Public
	My commission expires:
Naymond 1: Shanman nventor's Signature (Seal)	Date Assignment Signed: April 1, 2003
ventor's Typed Name: Ray Sherman	Date Application Signed: April 1, 2003
ate of	✓ 55.:
ounty of)	
Before me this day of ersonally known or proved to me on the ba strument of assignment to be his/her free act a	, personally appeared Ray Sherman who is sis of satisfactory evidence to be the person who acknowledged the foregoing and deed
Attiment of adalghment to be marier rec act a	ind deed.
	Notary Public My commission expires:
(Use Page Three	For Additional Inventor(s) Signature(s)) Page 2 of 3
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	PATENT
	REEL: 014082 FRAME: 03

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HEWLETT-PACKARD COMPANY Intellectual Property Administration P. O. Box 272400 Fort Collins, Colorado 80527-2400 PATENT APPLICATION
ATTORNEY DOCKET NO. 100204083-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I we hereunto set my.	our hand(s) and seal(s):
a. CRUig	Date Assignment Signed: 4/3/6/3
Inventor's Signature (Seal)	1/2/2
Inventor's Typed Name: Daniel R. Dwyer	Date Application Signed
State of)	
County of	
•	personally appeared Daniel R Dwyer Who is
Before me this day of personally known or proved to me on the basis of sat instrument of assignment to be his/her free act and deed.	tisfactory evidence to be the person who acknowledged the foregoing
	Notary Public
	My commission expires:
	A Company of the Comp
	Date Assignment Signed: 0Z APCU 2003
haventor's Signature (Seal)	
Inventor's Typed Name: Joyce A. Chua	Date Application Signed 57 4721 7003
Charter)	
) 85.:	
5 John S 12 Sm of (1992)	personally appeared <u>Joyce A. Chua</u> who is
personal knows or proved to me on the basis of sal	tisfactory evidence to be the person who acknowledged the foregoing
het unent of team hent to be his/her free act and deed.	John Julia
OF MY	Notery Public The Land Control of
	My commission expires: 4, 15 2 3
011	` / .
The Contract	Date Assignment Signed:
Inventor's Signature (Seal)	
Inventor's Typed Name: Robert G. Fritz	Date Application Signed 7// 03
State of	
) ss.: County of	
Before me this day of personally known or proved to me on the basis of sat instrument of assignment to be his/her free act and deed.	, personally appeared <u>Robert G. Fritz</u> who is isfactory evidence to be the person who acknowledged the foregoing
	Notary Public
	My commission expires:

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

Page 3 of 3

Rev 02/03 (Assign2)

PATENT REEL: 014082 FRAME: 03105