FORM PTO 1595 07-02-199		U.S. DEPARTMENT OF COMMERCE		
		EET Patent and Trademark Office		
y.50 12	40075202	Attorney Decker Nov 1090/7 169 1		
1. Name of conveying party(ies):	10075393	2. Name and address of receiving party(ies):		
Winthrop Childers, 5/27/98		HEWLETT-PACKARD COMPANYJUN 2 2 1990 110		
John Wade, 6/1/98		Legal Department, M/S 20BM 3000 Hanover Street		
Joe R. Pietrzyk, 6/16/98		Palo Alto, CA 94304		
	V			
Additional name(s) of conveying party(ies) at	ttached Yes X No	Additional name(s) & address(es) attached?Yes _X_ No		
3. Nature of Conveyance:				
X Assignment	Merger	Change of Name		
Security Agreement	Other			
Execution Date(s): 5/27/98, 6/1/98	i, 6/16/98			
4. Application number(s) or patent				
		cation, execution date of the application is:		
	ther with a new applic			
A. Patent Application No.(s)		B. Patent No.(s)		
Serial No.: 09/071,141 Date	Filed: 30 APR 98			
	Additional number	ers attached? <u>NO</u>		
5. Name and address of party to wi	nom correspondence	6. Total number of applications and patents involved: 1		
concerning document should be mailed:		7. Total Fee (37 CFR 3.41): \$40.00		
Records Manager HEWLETT-PACKARD COMP	ANY			
Legal Dept., MS 66-838		Enclosed		
16399 W. Bernardo Drive San Diego, CA 92127		X Authorization to be charged to deposit account.		
		8. Deposit Account Number: 08-2025		
	DO NOT USE	THIS SPACE		
9. Statement and signature.	haliaf the foregoing is	nformation is true and correct and any attached copy is a		
true copy of the original document.	Jener, the foregoing "	normation is true and correct and any attached copy to a		
	71141			
11 FC:581 40.00 CH Cynthia Hupper	Month	17 June 1998		
Cynthia Hupper Name of Person Signing Name of Person Signing Signature 17 June 1998 Date				
Total n	umber of pages including	g cover sheet, attachments, and document: 4		
OMB No. 0651-0011 (exp. 4/94)				
		ch this portion		
Mail document to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks				
Box Assignment				
Washington, D.C. 20231				

PATENT

REEL: 9272 FRAME: 0878

PATENT APPLICATION

HEWLETT-PACKARD COMPANY Legal Department, 20BN P. O. Box 10301 Palo Alto, California 94303-0890

ATTORNEY DOCKET NO. 10971769-1

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD COMPANY, a Delaware corporation having its principal place of business in Palo Alto, California, (hereinafter HP), in furtherance of my/our obligations to HP, and do hereby assign and transfer to HP, 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:

AND I/we hereby covenant that I/we have full right to convey the entire interest herein assigned, ar that I/we have not executed and will not execute any agreement in conflict herewith, and I/we furth covenant and agree that I/we will, each time a request is made, and without undue delay, execute any deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) improvement(s), said application and said Letters Patent, to HP, its successors, assigns, nominees all legal representatives, and I/we agree to communicate to HP, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Letters Patent, to testify in any leg proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P resisue and foreign applications, to make all rightful oaths and declarations, and generally to everything possible to aid HP, its successors, assigns, nominees and legal representatives to obtain are enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) any and all countries provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by HP; AND I/we hereby authorize and request the Commissioner of Patents and Trademarks of the Unite 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 HP, as assignee of the entire right, title and interest, 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, accordance with the terms of this assignment. I/we further authorize and direct HP attorneys to insert the serial number and filing date of sa application now identified by the attorney docket number and title set forth above as soon as the sair language of the patents of the pa	Accumulation	d Heat Removal From	An Inkjet Printhead	And To Provide For Air
continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for sa Letters Patent, and any and all Letters Patent of the United States and of countries forgin fereto which may be granted thereon or therefor; and any reissues, or reexaminations, or extensions of said Letter Patent. I/we additionally authorize HP to file applications in my/our name for Letters Patent in any country, be held and enjoyed by HP, its successors, assigns, nominees or legal representatives, to the full end the term or terms for which said Letters Patent respectively may be granted, reissued or extended, a transfer not been made; AND I/we hereby covenant that I/we have full right to convey the entire interest herein assignment, at transfer not been made; AND I/we hereby covenant that I/we have full right to convey the entire interest herein assigned, at that I/we have not executed and will not execute any agreement in conflict herewith, and I/we full right to convey the entire interest herein assigned, at the I/we have not executed and will not execute any agreement in conflict herewith, and I/we full right to convey the entire interest herein assigned, at the I/we have not executed and will not execute any agreement in conflict herewith, and I/we full right to convey the entire interest herein assigned, at the I/we have not execute any agreement in conflict herewith, and I/we full right to convey the entire interest herein assigned, at the I/we have not execute any agreement in conflict herewith, and I/we full right to convey the entire interest herein assignment, and the I/we full right to convey the entire interest herein assignment and agreement in conflict herewith, and I/we full right interest, and invention(s) or improvement(s), said application and said Letters Patent, to HP, its successors, assigns, nominees and divisionals, continuations, C-I-P reissue and foreign applications, to make all rightful oaths and declarations, and generally to ceverything possible to aid HP, its successors,	Filing date: 30 April 1998	Serial	No.: 09/071,	141
be held and enjoyed by HP, its successors, assigns, nominees or legal representatives, to the full end the term or terms for which said Letters Patent respectively may be granted, reissued or extended, a fully and entirely as the same would have been held and enjoyed by me/us had this assignment, are transfer not been made; AND I/we hereby covenant that I/we have full right to convey the entire interest herian assigned, are that I/we have not executed and will not execute any agreement in conflict herewith, and I/we furth covenant and agree that I/we will, each time a request is made, and without undue delay, execute any adjusted and agree that I/we will, each time a request is made, and without undue delay, execute any deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) improvement(s), said application and said Letters Patent, to HP, its successors, assigns, nominees all known facts respective said invention(s) or improvement(s), said application and said Letters Patent, to testify in any leg proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-Preissue and foreign applications, to make all rightful oaths and declarations, and generally to coverything possible to aid HP, its successors, assigns, nominees and legal representatives to obtain are enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) any and all countries provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by HP; AND I/we hereby authorize and request the Commissioner of Patents and Trademarks of the Unite 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 HP, as assignee of the entire right, title and interest, and all Letters Patent for said invention(s) or improvement(s), including any and all Letters Patent of the united States whose duty it	continuations-in-part (C-I-P's), divisio Letters Patent, and any and all Letter may be granted thereon or therefor;	onals, and renewals of s Patent of the United	and substitutes for States and of coun	or said application for said
that I/we have not executed and will not execute any agreement in conflict herewith, and I/we furth covenant and agree that I/we will, each time a request is made, and without undue delay, execute an deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) improvement(s), said application and said Letters Patent, to HP, its successors, assigns, nominees legal representatives, and I/we agree to communicate to HP, or to its nominee, all known facts respective said invention(s) or improvement(s), said application and said Letters Patent, to testify in any leg proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P' reissue and foreign applications, to make all rightful oaths and declarations, and generally to ceverything possible to aid HP, its successors, assigns, nominees and legal representatives to obtain an enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) any and all countries provided the expenses which may be incurred by me/us in lending such cooperatic and assistance are paid by HP; 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 to HP, as assignee of the entire right, title and interest, 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, application now identified by the attorneys to insert the serial number and filling date of sa application now identified by the attorneys to insert the serial number and filling date of sa 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. Date Assignment Signed: 5 - 2 7 - 9 8 Date Applicati	be held and enjoyed by HP, its succe the term or terms for which said Le fully and entirely as the same would	essors, assigns, nomine tters Patent respective	ees or legal represe ly may be granted	intatives, to the full end of , reissued or extended, as
States and any official of any country or countries foreign to the United States whose duty it is to issupatents on applications as aforesaid, to issue to HP, as assignee of the entire right, title and interest, are 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, accordance with the terms of this assignment. I/we further authorize and direct HP attorneys to insert the serial number and filing date of sa application now identified by the attorney docket number and title set forth above as soon as the sam shall have been made known to them by the United States Patent and Trademark Office. Date Assignment Signed: 5 - 27 - 98 Inventor's Typed Name: Winthrop Childers Date Application Signed: 5 - 27 - 98 State of California) ss.: County of San Diego Before me this 27 day of May 1992, personally appeared Winthrop Childers 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.	that I/we have not executed and will covenant and agree that I/we will, exception and agree that I/we will, exception and legal representatives, and I/we agree said invention(s) or improvement(s), proceedings, to sign all lawful paper reissue and foreign applications, to everything possible to aid HP, its such enforce, for its or their own benefit, any and all countries provided the expending applications.	Il not execute any agreach time a request is respectively and the communicate to HP, and application and so, to execute all disclar make all rightful occessors, assigns, nom proper patent protecti	eement in conflict made, and without to perfect the time to HP, its success, or to its nominee, said Letters Pater aimers and declaration and legal region for said invention	herewith, and I/we further undue delay, execute and tle to said invention(s) or ors, assigns, nominees or all known facts respecting ht, to testify in any legal als, continuations, C-I-P's, ons, and generally to do presentatives to obtain and on(s) or improvement(s) in
Date Assignment Signed: 5-27-98 Date Application Signed: 5-27-98 Date Ap	States and any official of any country patents on applications as aforesaid, and all Letters Patent for said inventi United States which may be issued	y or countries foreign to to issue to HP, as assi- on(s) or improvement(s d and granted on or	to the United States gnee of the entire r s), including any ar	s whose duty it is to issue ight, title and interest, any nd all Letters Patent of the
Date Application Signed: 5-27-98 State of California) Security of San Diego) Before me this 27 day of May 1990, personally appeared winthrop Childers who 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.	application now identified by the atto	orney docket number a	ind title set forth a	bove as soon as the same
State of California) ss.: County of San Diego Before me this 27 day of May 1992, personally appeared Winthrop Childers who 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.	nventor's Signature (Seal)	Date Assignm	nent Signed: 5 -	27-98
Before me this 27 day of 1997, personally appeared Winthrop Childers who ersonally 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.	nventor's Typed Name: Winthrop Childers	Dat	te Application Signed:	5-27-98
Before me this 27 day of 1991, personally appeared Winthrop Childers who ersonally 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.				
ersonally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoinstrument of assignment to be his/her free act and deed.	county of San Diego)	is.:		
CYNTHIA L HUPPER Protary Public O	ersonally known or proved to me on the b	asis of satisfactory evidence		
Commission # 1147485 Notary Public - California \$ San Diego County	Notary Public - California		Notary P	ablic nission expires: July 19, 20

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When recorded please return to:

HEWLETT-PACKARD COMPANY Legal Department, 20BN P. O. Box 10301 Palo Alto, California 94303-0890

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I we hereunto set m	ny/our hand(s) and seal(s):
Jet Woode	Date Assignment Signed: 1998 Date Application Signed: 1998
Inventor's Signature (Seal)	(/)
Inventor's Typed Name: John Wade	Date Application Signed: June 1 1998
State of California)) ss.:	
County of San Diego	· ·
Before me this 1st day of DAAR 1998	, 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	
CYNTHIA L. HUPPER	Notary Public My commission expires: July 19200
Commission # 1147485 Notary Public - California 3	My commission expires:
San Diego County	gary, coo
My Comm. Expires Jul 19, 2001	
	// T 00
Ja Publish	Date Assignment Signed: 16 June 98
Inventor's Signature (Seal)	Date Assignment Signed: 16 June 98 Date Application Signed: 16 June 98
Inventor's Typed Name: Joe R. Pietrzyk	Date Application Signed: /b June 76
State of California)	
) ss.: County of San Diego	
1/2 ch h 1997	Z
personally known or proved to me on the basis of s	personally appeared Joe R. Pietrzyk who is satisfactory evidence to be the person who acknowledged the foregoing
instrument of assignment to be his/her free act and deed	l.
	Centhea Lyppe (Notary Public My Commission expires: July 19 200)
CYNTHIA L. HUPPER	Notary/Public My commission expires: (), // / G
Commission # 1147485 Notary Public - California \$	July 1, 2001
San Diego County	ν
My Comm Expires Lui 19, 2001	
	Date Assignment Signed:
Inventor's Signature (Seal)	
Inventor's Typed Name:	Date Application Signed:
State of)	
) ss.:	
County of)	
Before me this day of,	
personally known or proved to me on the basis of s instrument of assignment to be his/her free act and deed	atisfactory evidence to be the person who acknowledged the foregoing .
and door	
	Notary Public
	My commission expires:

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

Page 2 of 2