FORM PTO-159₹ 1-31-92	01-03-20	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office			
li ll		Attorney Docket No10002375-1			
1. Name of conveying party(ies). 101570 James A. Feinn / 2 - 4 - 8 8 Winthrop D. Childers		HEWLETT-PACKARD COMPANY Intellectual Property Administration P.O. Box 272400 Fort Collins, Colorado 80527-2400			
Additional name(s) of conveying party(ies) attached	dYesX No	Additional name(s) & address(es) attached?Yes _X_ No			
3. Nature of Conveyance:		Broken on the state of the stat			
X Assignment	Merger	Change of Name			
Security Agreement	Other				
Execution Date(s): July 18, 2000; July 2	24, 2000; July 1	9, 2000, respectively			
4. Application number(s) or patent numb	er(s):				
If this document is being filed together v	with a new applic	cation, execution date of the application is:			
A. Patent Application No.(s)		B. Patent No.(s)			
Serial No.: 09/648,565 Date Filed: Aug	25, 2000				
Additional numbers attached? NO					
Name and address of party to whom correspondence concerning document should be mailed: 6. Total number of applications and patents involved: 1					
Records Manager HEWLETT-PACKARD COMPANY 16399 W. Bernardo Drive Mail Stop 66-838 San Diego, CA 92127-1899		7. Total Fee (37 CFR 3.41): \$40.00 Enclosed X Authorization to be charged to deposit account.			
		8. Deposit Account Number: 08-2025			
	DO NOT USE	THIS SPACE			
9. Statement and signature. To the best of my knowledge and belief, true copy of the original document.	the foregoing in	oformation is true and correct and any attached copy is a			
Jennifer Torres Nov 29, 2000 Date Total number of pages including cover sheet, attachments, and document: 5					
OMB No. 0651-0011 (exp. 4/94)					
Do Not detach this portion Mail document to be recorded with required cover sheet information to: Commissioner for Patents Box Assignment Washington, D.C. 20231					

Rev 10/00 (Recdasgn)

PATENT REEL: 011380 FRAME: 0971

ATTORNEY DOCKET NO. 10002375-1

HEWLETT-PACKARD COMPANY Intellectual Property Administration P. O. Box 272400 Fort Collins, Colorado 80528-9599

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:

successors and assigns, the entire right an application for Letters Patent of the U	, title and interest, including	
Wide-Array Inkjet Printhead Assembly W	Vith Internal Electrical Routin	g System
Filing date: August 25, 2000	Serial No.:	09/648,565
and the invention(s) and improvem continuations-in-part (C-I-P's), divisiona Letters Patent, and any and all Letters P may be granted thereon or therefor; and Patent.	ls, and renewals of and sub Patent of the United States a	estitutes for said application for said and of countries foreign thereto which
I/we additionally authorize HP to file be held and enjoyed by HP, its success the term or terms for which said Letter fully and entirely as the same would h transfer not been made;	ors, assigns, nominees or legrs rs Patent respectively may b	be granted, reissued or extended, as
AND I/we hereby covenant that I/we that I/we have not executed and will n covenant and agree that I/we will, each deliver all such papers as may be necimprovement(s), said application and slegal representatives, and I/we agree respecting said invention(s) or improven legal proceedings, to sign all lawful pactions everything possible to aid HP, its succeenforce, for its or their own benefit, prany and all countries provided the cooperation and assistance are paid by	ot execute any agreement in time a request is made, and cessary or desirable to perfaid Letters Patent, to HP, in to communicate to HP, onent(s), said application and apers, to execute all disclains, to make all rightful oaths assors, assigns, nominees and oper patent protection for sexpenses which may be in	Id without undue delay, execute and fect the title to said invention(s) or its successors, assigns, nominees or or to its nominee, all known facts said Letters Patent, to testify in any mers and divisionals, continuations, and declarations, and generally to do d legal representatives to obtain and aid invention(s) or improvement(s) in
AND I/we hereby authorize and req States and any official of any country of patents on applications as aforesaid, to and all Letters Patent for said invention United States which may be issued a accordance with the terms of this assign	r countries foreign to the Ur issue to HP, as assignee of t (s) or improvement(s), includ and granted on or as a res	the entire right, title and interest, any ling any and all Letters Patent of the
I/we further authorize and direct application now identified by the attorn shall have been made known to them by	ey docket number and title :	
IN WITNESS WHEREOF, I/we hereu Sumes (1-)		3/19/2000
Inventor's Typed Name: James A. Feinn	Date Application	on Signed: 7 (8 200
State of California }		
County of San Diego		
Before me this 8 day of 0/0/20 basis	OOO, personally appeared	nes A. Feinn who is he person who acknowledged the foregoing
instrument of assignment holds Mill Mer free act an Commission # 1179202 Notary Public - California Substitution Los Angeles County	d deed.	Notary Public Disc
My Comm. Expires Apr 10, 2002		My commission expires:

Page 1 of 2

When record of please return to:

HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P. O. Box 272400
Fort Collins, Colorado 80528-9599

PATENT APPLICATION

ATTORNEY DOCKET NO. 10002375-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

			Date Assignment Signed:
nventor's	Signature (Seal)		
nventor's	Typed Name: Michael J. Barbo	our	Date Application Signed:
State of	Oregon)	
) ss.:	
County of)	
ersonally		the basis of sa	personally appeared <u>Michael J. Barbour</u> who intisfactory evidence to be the person who acknowledged the foregoin
			Notary Public
			My commission expires:
Before	• • • • • • • • • • • • • • • • • • • •	the basis of sa	personally appeared <u>Winthrop D. Childers</u> who is tisfactory evidence to be the person who acknowledged the foregoing
•	SARAH J. O'BRIEN SARAH J. O'BRIEN Commission # 117920 Notary Public - Califori Los Angeles County My Comm. Expires Apr 10,	02 Nia A	Notary Public Notary Public
nstrument	SARAH J. O'BRIEN Commission # 117920 Notary Public - Califor Los Angeles County	02 Nia A	Notary Public Notary Public
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nventor's	SARAH J. O'BRIEN Commission # 117920 Notary Public - Califor Los Angeles County My Comm. Expires Apr 10, Signature (Seal)	02 nia <u>Na</u> 2002	Notary Public My commission expires: 4-10-3
nstrument	SARAH J. O'BRIEN Commission # 117920 Notary Public - Califor Los Angeles County My Comm. Expires Apr 10, Signature (Seal)	02 nia <u>\$</u> 2002	Notary Public My commission expires: 4-/0-3.
nventor's nventor's tate of county of Before ersonally	SARAH J. O'BRIEN Commission # 117920 Notary Public - Califor Los Angeles County My Comm. Expires Apr 10, Signature (Seal) Typed Name:) ss.:	Notary Public My commission expires: 4-10-3. Date Assignment Signed: Date Application Signed: personally appeared who is
nventor's nventor's tate of county of Before ersonally	SARAH J. O'BRIEN Commission # 117920 Notary Public - Califor Los Angeles County My Comm. Expires Apr 10, Signature (Seal) Typed Name: me this day of known or proved to me on the commission of the) ss.:	Notary Public My commission express: 44-10-3

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Page 2 of 2

PATENT APPLICATION

ATTORNEY DOCKET NO. 10002375-1

HEWLETT-PACKARD COMPANY Intellectual Property Administration P. O. Box 272400 Fort Collins, Colorado 80528-9599

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:

Filing date:	August 25, 20	000	Serial No.:	09/648,565
continuations- Letters Patent	in-part (C-I-P's), d , and any and all L	ivisionals, and etters Patent (d renewals of and su of the United States :	, and any and all continuations abstitutes for said application for said and of countries foreign thereto which inations, or extensions of said Letters
be held and e the term or te	njoyed by HP, its s erms for which sai rely as the same v	successors, as d Letters Pate	ssigns, nominees or le ent respectively may	e for Letters Patent in any country, to egal representatives, to the full end or be granted, reissued or extended, as d by me/us had this assignment, and
that I/we hav covenant and deliver all sud improvement legal represer respecting sai legal proceed C-I-P's, reissueverything poenforce, for it any and all	e not executed and agree that I/we with papers as may so, said application atatives, and I/we dinvention(s) or in ngs, to sign all late and foreign application their own berson their own berson agreement.	d will not exe ill, each time be necessary and said Le agree to co approvement(s) wful papers, ications, to m s successors, aefit, proper p t the expens	cute any agreement a request is made, a y or desirable to perters Patent, to HP, ommunicate to HP, to execute all disclarake all rightful oaths assigns, nominees a atent protection for secute all to execute all disclarake all rightful oaths assigns, nominees a atent protection for security.	he entire interest herein assigned, and in conflict herewith, and I/we further nd without undue delay, execute and rect the title to said invention(s) or its successors, assigns, nominees or to its nominee, all known facts disaid Letters Patent, to testify in any aimers and divisionals, continuations, and declarations, and generally to do nd legal representatives to obtain and said invention(s) or improvement(s) in incurred by me/us in lending such
States and an patents on appartents on appartents on appartent states	y official of any co plications as afores Patent for said in	untry or countaid, to issue to vention(s) or issued to ssued and gra	tries foreign to the U to HP, as assignee of mprovement(s), inclu anted on or as a re	Patents and Trademarks of the United Inited States whose duty it is to issue the entire right, title and interest, any ding any and all Letters Patent of the esult of the application aforesaid, in
application no	w identified by the	attorney doc	ket number and title	serial number and filing date of said set forth above as soon as the same and Trademark Office.
IN WITNE	SS WHEREOF, I/w	e hereunto set	t my/our hand(s) and	seal(s):
Inventor's Signatu	re (Seal)		Date Assignment Signed	l:
_	Name: <u>James A. Feinn</u>		Date Applicat	ion Signed:
State of Califor)		
County of San D	ego) ss.:)		
	<u>-</u>			

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

PATENT^{ge 1 of 2}

REEL: 011380 FRAME: 0974

Notary Public
My commission expires:

When recorded please return to:
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Intellectual Property Administration
P. O. Box 272400

Fort Collins, Colorado 80528-9599

PATENT APPLICATION
ATTORNEY DOCKET NO. 10002375-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITH	NESS WHEREOF, I we	hereunto set m	y/our hand(s) and seal(s):		
M/ Inventor's	Signature (Seal)	abour	Date Assignment Signed: Date Application	2/24/20	00
Inventor's	Typed Name: Michael J. B	arbour	Date Application	Signed: 7/24/	120001
State of	Oregon	1		orginal Type II	
	Benton) ss.:			
)			
Before	me this at hay of Qu	ly 2000	, personally appeared <u>Micha</u> atisfactory evidence to be the	el J. Barhour	who is
personally	known or proved to me	on the basis of s	atisfactory evidence to be the	person who acknowledg	ged the foregoing
instrumen	t of assignment to be his/he	r free act and deed	i.	•	a)
			OFFICIAL SEAL	Geresa K.	Juma
		CO	OFFICIAL SEAL TERESA K. TUMA DITARY PUBLIC - OREGON DOMMISSION NO. 057436 MMISSION EXPIRES SEPT. 8, 2000	Notary Public My commission expires:	9-8-00
			Date Assignment Signed:		
Inventor's	Signature (Seal)		Date Assignment Signed:		
inventor's	Typed Name: Winthrop D.	Childers	Data Application	Cianad.	
miranto, s	Typed Hallie.		Date Application :	Signed:	
State of	California)			
County of	San Diego) ss.:)			
•	_	•			
Before	me this day of		personally appeared Winthr	rop D. Childers	who is
	of assignment to be his/her		atisfactory evidence to be the	person who acknowledg	ed the foregoing
				Notary Public My commission expires:	
				wy commission expires.	
			Data Assissment Circuit		
nventor's	Signature (Seal)		_ Date Assignment Signed:		· · · · · · · · · · · · · · · · · · ·
nventor's	Typed Name:		Date Application S	Signed:	·
State of)			
) ss.:			
County of)			
Before	me this day of		personally appeared		who is
ersonally		on the basis of sa	tisfactory evidence to be the	person who acknowledge	
				Notary Public	
				My commission expires:	
				•	

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

Page 2 of 2

PATENT REEL: 011380 FRAME: 0975

RECORDED: 12/04/2000