Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	N TYPE: CORRECTIVE ASSIGNMENT			
NATURE OF CONVEY	YANCE:	Corrective Assignment to correct the Serial Number previously recorded on Reel 008181 Frame 0900. Assignor(s) hereby confirms the assignment of assignors interest.		
CONVEYING PARTY	DATA			
	1	Name	Execution Date	
Wen-Li Su			07/23/1996	
Trudy L. Benjamin			07/23/1996	
Steven B. Elgee			07/22/1996	
Thomas F. Uhling			07/23/1996	
Bruce A. Axten			07/23/1996	
Kerry J. Lundsten		07/23/1996		
Xiuting C. Man		07/23/1996		
Tamara L. Hahn			07/19/1996	
lue-Shuenn Chen			07/19/1996	
Michael T. Dangelo			07/17/1996	
Bryan D. Woll			07/19/1996	
Timothy L. Weber			07/02/1996	
James W. Pearson			07/02/1996	
RECEIVING PARTY D	ΟΑΤΑ			
Name:	Hewlett-Packard Company			
Street Address:	t Address: 3000 Hanover Street			
City: Palo Alto				

Name: Hewlett-Packard Company Street Address: 3000 Hanover Street City: Palo Alto CALIFORNIA State/Country: Postal Code: 94304

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	08687000

CORRESPONDENCE DATA

Fax Number:

(303)297-2266

PATENT REEL: 023467 FRAME: 0333

501005896

<i>Correspondence will be set</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	Email:angela.g.troussel@hp.comCorrespondent Name:Hewlett-Packard CompanyAddress Line 1:3404 E. Harmony RoadAddress Line 2:Intellectual Property Administration		
ATTORNEY DOCKET NUMBER:		10950840-1	
NAME OF SUBMITTER:		Angela Troussel	
NAME OF SUBMITTER: Angela Troussel Total Attachments: 11 source=10950840 Assignment#page1.tif source=10950840 Assignment#page2.tif source=10950840 Assignment#page3.tif source=10950840 Assignment#page3.tif source=10950840 Assignment#page3.tif source=10950840 Assignment#page5.tif source=10950840 Assignment#page6.tif source=10950840 Assignment#page7.tif source=10950840 Assignment#page7.tif source=10950840 Assignment#page8.tif source=10950840 Assignment#page8.tif source=10950840 Assignment#page9.tif source=10950840 Assignment#page1.tif source=10950840 Assignment#page1.tif source=10950840 Assignment#page1.tif			

FORM PTO - 1595	10-22-1996 EPARTMENT OF COMMERCE		
1-31-92	Patent and Trademark Office		
0CT 1 5 1998			
1. Name of conveying party(issecs PTACCTING, DN	100232020 . rank autress of receiving party(ies):		
Wen-Li Su	HEWLETT-PACKARD COMPANY		
Trudy L. Benjamin	Legal Department, M/S 20BO		
Steven B. Elgee	3000 Hanover Street		
Steven B. Elgee Thomas F. Uhling	Palo Alto, CA 94304		
Bruce A. Axten			
Additional name(s) of conveying party(ies) attached? X Yes No	Additional name(s) & address(es) attached? Yes X No		
3. Nature of Conveyance:			
X Assignment	Merger		
Security Agreement	Change of Name		
Other			
Execution Date(s): 7/2/96; 7/17/96; 7/19/96; 7/23/96	*		
4. Application number(s) or patent number(s):			
If this document is being filed together with a new appli	cation, the execution date of the application is:		
A. Patent Application No.(s)	B. Patent No. (s)		
08/687.700 Date Filed: 07/24/96			
Additic	nal numbers attached? <u>NO</u>		
5. Name and address of party to whom correspondence concerning document should be mailed:			
Records Manager 7. Total Fee (37 CFR 3.41);\$40.00			
HEWLETT-PACKARD COMPANY Enclosed			
Legal Department X Authorization to be charged to deposit account			
P. O. Box C-006 8. Deposit Account Number: <u>08-2025</u>			
Vancouver, WA 98668-C006	(attach duplicate copy of this page if paying by deposit account.)		
	NOT USE THIS SPACE		
\$T04040 19/21/96 08687700	<u> 08~2023 640 381 40.00000</u>		
9. Statement and signature.			
To the best of my knowledge and belief, the foregoing in original document.	formation is true and correct and any attached copy is a true copy of the		
Cherylynn Moser	<u>Gra Malan</u> October 8, 1996		
Name of Person Signing Signature	Date		
	Total number of pages including cover sheet, attachments, and document; 2		
OMB No. 0651-0011 (exp. 4/94)			
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	information to: ner of Patents and Trademarks Box Assignment ashington, D.C. 20231		

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PATENT APPLICATION

ATTORNEY DOCKET NO. 10950840

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

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD COMPANY, a California corporation having its principal place of business in Palo Alto, California, (hereinafter HP), for good and valuable consideration, receipt of which is hereby acknowledged, and do hereby sell, 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:

Acoustic and Ultrasonic Monitoring of Inkjet Printheads

I/we additionally authorize HP to file applications in my/our name for Letters Patent in any country, to be held and enjoyed by HP, 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, sale 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 HP, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to HP, or to its nominee, all known facts respecting said invention(s) or improvement(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 HP, 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 cooporation 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 patents on applications as aforesaid, to issue to HP, 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 HP attorneys 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/our hand(s) and seal(s):

1 Jun -	<u> </u>	te Assignment Signed:	<u> 50/4</u>	<u>23,96 </u>
Inventor's Signature (Seal)			a series a s	$\sim 1 - 2 \sim 1 - 2 \sim 1$
Inventor's Typed Name: Wen-Li Su		Date Application S	Signed:	<u>1423,96</u>
State of Warder Man County of Charles)) ss.:			
County of Charles)			
Before me this day of who is personally known or proves us instrument of assignment to be his/her free	me on the basis of satisfa	EV EV LIC IGTON		acknowledged the foregoing

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

Page 1 of 5

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PATENT REEL: 023467 FRAME: 0336

Rev 12/93 (Form 3.03)

When recorded please return to: HEWLETT-PACKARD COMPANY Legal Department, 2080 P. O. Box 10301 Palo Alto, California 94303-0890

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PATENT APPLICATION

ATTOKASEY DOCKET NO. 10950840

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I we hereunto set my/our hand(s) and seal(s):

hand of Deservices	Date Assignment Signed: 7-28-740
Inventor s Signature (Seal)	
Inventor's Typed Name: Trudy L. Benjamin	Date Application Signed: 7.23.976
State of Washington \$	
County of Charles	
who is personally known or proved to the on instrument of assignment to be his/her free act and d	, personally appeared <u>Trudy L. Benjamin</u> the basis of satisfactory evidence to be the person who acknowledged the foregoing EWONNE I. BAILEY NOTARY PUBLIC NOTARY PUBLIC NOTARY PUBLIC NOTARY PUBLIC NOTARY PUBLIC NOSASY Public Nosasy Public Ny commission expires: 7/27/47
Mar B. I. a.	Date Assignment Signed: July 22 1994
Inventor's Signature (Seal)	
Inventor's Typed Name: Steven B. Elgee	Date Application Signed: <u>Jaly 22 12/k</u>
who is personally known or proved to me on instrument of assignment to be his/her free act and d	YVONNE I. BAILEY NOTARY PUBLIC ATE OF WASHINGTON COMMISSION EXPIRES JULY 27, 1997
Inventor's Signature (Seal)	Date Assignment Signed: 7 - 2 3 - 7 (,
Inventor's Typed Name: Thomas F. Unling	Date Application Signed: Z_S - Z La
State of Wachington) County of Clark () Before me this 22 day of Called who is personally known or proved to me on instrument of assignment to be his/her free act and d	the basis of sansfactory evidence to be the person who acknowledged the foregoing
	JULY 27, 1997

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

Page 2 of 5

PATENT REEL: 023467 FRAME: 0337

When recorded please return to:		PATENT APPLICATION
HEWLETT-PACKARD COMPANY Legal Department, 20BO P. O. Box 10301 Palo Alto, California 94303-0890	A	TTORNEY DOCKET NO. 10950840
A	SSIGNMENT OF PATENT APPLICA	TION (cont.)
IN WITNESS WHEREOF, I we here Barrier (Seal)	eunto set my/our hand(s) and seal(s):	and the second second
Inventor's Typed Name: Bruce A. Axten	Date Applicati	on Signed;
State of (Vacherrighter) County of (Vack)) 55.:	
instrument of assignment to be his/her free act	ection the basis of satisfactory evidence to b	e the person who acknowledged the loregoing
N STAT	VONIVE I. BAILEY OTARY PUBLIC TE OF WASHINGTON DMMISSION EXPIRES JULY 27, 1997	Notes's Public Notes's Public New commission expires: 7/9,7/97
Jun		<u>7/23/96</u>
Inventor's Typed Name: Kerry J. Lundste	m Date Applicati	on Signed:
State of U. and any floor)) \$\$.;	
County of Carton)		
Before me this day of day of who is personally known or proved to n	, personally appeared be on the basis of satisfactory evidence to b	Kerry J. Lundsten e the person who acknowledged the foregoing
instrument of assignment to be his/her free ac	YVONNE I BAILEY NOTARY PUBLIC STATE OF WASHINGTON COMMISSION EXPIRES JULY 27, 1997	Notify Public Notify Public My controlssion expires: 7/27/27
Inventor's Signature (Seal)	Date Assignment Signed:	
Inventor's Typed Name: Xinting C. Man	Date Applicati	on Signed:23/96
State of Washington)) 5 \$.∶	
County of Marky		
Before me this 33 day of	$\frac{2}{2}$, personally appeared are on the basis of satisfactory evidence to be and deed.	6 IUG DEIZDIT WIRE REFILORICUEDED OF TOTAL THE
	YVONNE I. BAILEY NOTARY PUBLIC STATE OF WASHINGTON COMMISSION EXPIRES	<u>However</u> New Public My commission expires: 7/2.7/9.7
L	JULY 27, 1997	Page 3 of 5

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

PATENT REEL: 023467 FRAME: 0338 When recorded please return

HEWLETT-PACKARD COMF. Legal Department, 2080 P. O. Box 10301 Pato Ato. California \$4303-0890

PATENT APPLICATION

ATTORNEY DOCKET NO. 10950840

ASSIGNMENT OF PATENT APPLICATION (cont.)

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IN WITNESS WHEREOF, I we hereunto set my/our hand(s) and seal(s):	n Iralar
CANASA LAGAS Dese Assignment Signed:	
Inventor's Signature (Seal) Inventor's Typed Name: Tamará L. <u>Rahn</u> Date Application Si	gned(7199_1_
state california.)	
County of SAN DIEGO }**.	
Before me this day of, personally appeared Tamaxa, personally appeared	acknowledged the foregoing instrument of
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Date Assignment Signed:	7/19/96
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State of CALCORNIA)	
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Before me this day of personally appeared <u>uter Diruce</u> personally known or proved to me on the basis of satisfactory evidence to be the person who assignment to be his/her free act and deed	· · · · · · · · · · · · · · · · · · ·
ANTEL MARY URBACH	Mary Maria Strand
Ž (Če 200) Notory Public – Collionio ž	Notory Public My commission expires: 20 20 97
My Comm. Explose 758 28. 1997	
Milde L. A. Sundan Date Assignment Signed:	7/17/96
	and the second second
Inventor's Typed Name: Michael T. Dangelo Date Application Sig	jned: <u>-7/17/96</u>
State of CALIFORNIA)	
County of SAN Dieg ? }	
n de la constant de l	T. Dangelo who is
Before me this day of personally appearedMichael personally known or proved to me on the basis of satisfactory evidence to be the person who	acknowledged the foregoing instrument of
essignment to be his/her free act and deed.	Mary Ultreel
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S CONM & RESES	My commission express: 2.7 2.87 97
MARY UBBACH COMM. # 085856 Notary Public Colifornia SAN Diego Country My Comm. Expires FEB 28, 1997	
My Comm. Explose FEB 28, 1997	Pages of S
(Use Next Page For Additional Inventorits) Signature(s))	t see the second s

Rev 10/94 (Form 3.03A)

PATENT REEL: 023467 FRAME: 0339

HEWLETT-PACKARD COMPANY	1	*	PATENT APPLICATION
Legal Department, 2080 P. O. Box 10301 Pelo Alto, Californis 54303-0890		· · · · ·	RNEY DOCKET NO. <u>10950840</u>
	ASSIGNMENT	OF PATENT APPLICAT	ION (com.)
IN WITNESS WHEREOF, IN	we hereunto set my/c	our hand(s) and seal(s):	
Inventor's Signature (Seel)	<u> </u>	Date Assignment Signed:	<u></u>
Inventor's Typed Name: Brya	n D. Woll	Date Applicatio	on Signed:
State of CAL forma	3))		
County of SAA Diags) 85.: }		
		sersonally appeared Bryas	n D. Wall who is who is who is the second se
personally known or proved to me assignment to be his/her free act as	on the basis of satisfacto nd deed.	ny svidence to be the person a administration in the the person a	who acknowledged the foregoing instrument :
	Mer !!	MARY URBACH	🕻 1999 Malsack
		COMM. # 195366 Notary Public — California SAN Diffeo COUNTY 5 Comm. Explane F58 28, 1977	
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Inventor's Signature (Seal)	·····	- Data Haadi una Landra 7	
Inventor's Typed Name: <u>Timo</u>	thy L. Weber	Date Application	a Signed:
State of			
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Before me this day of	Ø	ersonally appeared <u>Timot</u>	hy L. Weber who is
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Inventor's Signature (Seal) Inventor's Typed Name:	<u>s N. Pearson</u>	•••	kay commission expires:
Inventor's Signature (Seal)	<u>s N. Pearson</u>)) \$\$.:	•••	Part Commenter Sebuse
Inventor's Signature (Seal) Inventor's Typed Name:)) 57.:)	Date Application	kiy commission expires:
Inventor's Signature (Seal) Inventor's Typed Name: <u>Tames</u> State of County of)) ss.;) on the basis of satisfactory	Date Application	ky commission expires:
Inventor's Signature (Seal) Inventor's Typed Name: <u>Jame</u> : State of County of Before me this day of personally known or proved to me o)) ss.;) on the basis of satisfactory	Date Application	kiy commission expires:
Inventor's Signature (Seal) Inventor's Typed Name:)) ss.;) on the basis of satisfactory	Date Application	kiy commission expires: Signed:
Inventor's Signature (Seal) Inventor's Typed Name:)) ss.;) on the basis of satisfactory	Date Application	My commission expires: Signed: Signed: Model: Signed: Notary Public
Inventor's Signature (Seal) Inventor's Typed Name: <u>Jame</u> : State of County of Before me this day of personally known or proved to me o)) ss.;) on the basis of satisfactory	Date Application	My commission expires: Signed: Signed: Model: Signed: Notary Public

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PATENT REEL: 023467 FRAME: 0340

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When recorded please return to:

HEWLETT-PACKARD COMPAN' Legal Department, 2080 P. O. Box 10301 Palo Alto, California 94303-0890

PATENT APPLICATION

RNEY DOCKET NO. 10950840

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I we hereunto set my/our hand(s) and seal(s):

÷		Date Assignment Signed
Inventor's Signature (Seei)	WITCH THE ADDRESS OF THE OWNER OF	
Inventor's Typed Name:I	Bryan D. Woll	Dats Application Signed:
State of	1	
County of) ss.: }	
•		a suborie
Before me this da personally known or proved	to me on the basis of satisfac	personally appeared Bryan D. Woll who is tory evidence to be the person who acknowledged the foregoing instrument of
assignment to be his/her free		
		ADDRAY PURKE
		My commission express
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-22) Y	. L.b	Date Assignment Signed:
Inventor's Signature (Seal)	minum tetter and the second	
Inventor's Typed Name:	limothy L. Weber	Date Assignment Signed: July 2, 1996
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State of Congon County of Bandon) 59.:	
County of BENSON)	
Botoro me shis 2002 day	y of <u>1101, 1111, 1111, 1111, 1111, 1111</u> ,	personally appeared <u>Timothy L. Weber</u> who is ory evidence to be the person who acknowledged the foregoing instrument of
assignment to be his/her free	to me on the pasis of satisfact act and deed.	
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I YBARDA SHARARY I	PHALIC , APECON	
NY COMMISSI	SION NO 026383 IN EXTINES INLY 25 1397	
	arson	Date Assignment Signed:
Inventor's Signature (Seal)		A. 1. 2 1996
Inventor's Typed Name:	James W. Pearson	Date Application Signed:
State of Cardegord)	
County of A. County) \$\$.2 }	
55	. Same Adde.	personally appeared Tames & Paarson who is
Before me this Colling day personally known or proved to	o me on the basis of satisfacto	personally appeared <u>Tames & Pearson</u> who is by evidence to be the person who acknowledged the foregoing instrument of
assignment to be his/her free a	act and deed.	Kr. Josephann
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Rev 10/94 (Form 3.03A)

PATENT REEL: 023467 FRAME: 0341

RECORDED: 11/04/2009