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FORM PTO-1595 1-31-92

RECORDATION FORM COVER SHEET

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Ronald A. Askeland							
James A. Feinn		20555 SH 249 Houston, TX 77070					
David D. Helfrick		•					
Jason R. Arbeiter							
Jason Quintana							
Additional name(s) of conveying party(les) attached	Yes X No	Additional name(s) & address(es) attached?YesX No					
3. Nature of Conveyance:							
X Assignment	Merger	Change of Name					
Security Agreement	Other						
Execution Date(s): 04/29/2003; 04/29/2003; 04/29/2003; 04/29/2003; 05/09/2003							
4. Application number(s) or patent number(s):							
If this document is being filed together with a new application, execution date of the application is:							
A. Patent Application No.(s)		B. Patent No.(s)					
Application No.: 10/448,970 Date Filed: 05/30/2003							
Confirmation No.: 7631 Additional numbers attached? NO							
Name and address of party to whom correspondence concerning document should be mailed: Records Manager Intellectual Property Administration HEWLETT-PACKARD COMPANY		6. Total number of applications and patents involved: 1					
		7. Total Fee (37 CFR 3.41); \$40.00					
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PATENT APPLICATION

ATTORNEY DOCKET NO. 10015541-1

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 the and indexes.

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: VARIABLE MAPPING OF NOZZLE ROWS TO DECREASE DOT PLACEMENT ARTIFACTS OF AN INKJET PRINTHEAD Application No.: 10/448970 Filing date: 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/our hand(s) and seal(s): Date Assignment Signed: 4/49/400} Inventor's Signature (Seal) Date Application Signed: 4/49/400 } Inventor's Typed Name: Ronald A. Askeland State of California) ss.: County of San Diego

My commission expires:

Notary Public

Rev QZ/D3 (Assign)

instrument of assignment to be his/her free act and deed.

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

Before me this ____ day of ______, personally appeared _____ Ronald A. Askeland ____ who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing

Page 1 of 3

PATENT REEL: 013968 FRAME: 0554

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PATENT APPLICATION ATTORNEY DOCKET NO. 10015541-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITN	ESS WHERE	OF, I/we hereu	into set m	y/our hand	d(s) and sea	al(s):			
\nearrow	mes a.	Feine.		Date Assign	nment Signed:	A	pril 29	2003	
inventor's	Signature (Seal	1					-	•	
Inventor's	Typed Name: J	ames A. Feinn			_ Date Applic	ation Si	igned: Apr	<u>, 124, 2</u>	003
State of	California)) ss.:				-		
County of	San Diego)						
personally	known or pro-	day of ved to me on the to be his/her free :	basis of s	atisfactory e	appeared evidence to be	James_/ e the p	A. Felnn person who ackn	owledged the	who is foregoing
							Notary Public My commission expi	Iras:	
Qu	nd DA	elfil		_Date Assign	nment Signed:		Apr. 129	, 2003	
Inventor's	Typed Name: E	avid D. Helfrick					igned: April		
State of	California)				- - //- //	,	
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		(Use Page T)	hree For Addit	tional Inventor	(s) \$ignature(s))			Page 2 of	3

Rev 02/03 (Assign)

PATENT APPLICATION
ATTORNEY DOCKET NO. 10015541-1

When recorded please return to:

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P. O. Box 272400
Fort Collins, Colorado 80527-2400

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITN	ESS WHEREOF, I we hered	into set my/o	our hand(s) and seal(s):	
inyssaor s	Signature (Seal)		Date Assignment Signed:	5/9/03 Signed 5/9/03
Inventor's	Typed Name: Jason Quintana		Date Application :	Signed 5/9/03
State of	Washington) 88':)		
County of	Clark)		
personally	me this day of known or proved to me on the of assignment to be his/her free	e basis of satis	personally appeared <u>Jason</u> sfactory evidence to be the	Quintana who is person who acknowledged the foregoing
				Notary Public My commission expires:
Inventor's	Signature (Seal)		Date Assignment Signed:	····
inventor's	Typed Name:		Date Application :	Signed
State of		1		
County of) ss.:)		
personally	me this day of known or proved to me on the of assignment to be his/her free	e basis of satis	personally appeared factory evidence to be the	who is person who acknowledged the foregoing
				Notary Public My commission expires:
Inventor's	Signature (Seal)		Date Assignment Signed:	
Inventor's	Typed Name:		Date Application 5	Signed
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				My commission expires:

Page 3 of 3

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RE: PATENT APPLICATION ATTORNEY DOCKET NO. 10015541-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTOR(S): Askeland et al CONFIRMATION NO: 7631

SERIAL NO.: 10/448,970 GROUP ART UNIT: 2861

FILED: May 30, 2003 EXAMINER: N/A

SUBJECT: Variable Mapping Of Nozzle Rows To Decrease Dot Placement

Artifacts Of An Inkjet Printhead

CERTIFICATION OF FACSIMILE TRANSMISSION

I hereby certify that the following papers are being facsimile transmitted to the Patent and Trademark Office (Fax No. (703) 306-5995) on the date shown below:

- 1. This Certification of Facsimile Transmission (1 pg.)
- Recordation Form Cover Sheet (1 pg.)
- 3. Assignment of Patent Application (3 pgs.)

Date of Facsimile 09/12/2003

Typed Name Betty Hinkle

Signature 2004

NUMBER OF PAGES IN FACSIMILE: 5

RECORDED: 09/12/2003

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