ey 05 04 05:22p Lucinda Price <u>05/</u> 05/04 04:10 FAX 6123393061 50	(952) 991-0480 P.S CHWEGMAN, LUNDBERG, WOES 図003/008
FORM PTO-1595	
1-37-92	U.S. DEPARTMENT OF COMMERC
	FORM COVER SHEET Patent and Trademark Off
	Attorney Docket No. 100202925-1
Name of conveying party(les):	2. Name and address of receiving party(ies):
Steven W. Steinfield	HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P
Joseph E. Schaffelin	<0000 DM %43
M. Jeffery tgelman	Hauston, TX 77070
Frank J. Breti	
	'
1	
Additional name(s) of conveying party(iea) attached Yes X	
3. Nature of Conveyance:	No Additional name(s) & address(es) attached?Yes _X No
X Assignment Mer	ger Change of Name
Security Agreement Oth	
. 	
Execution Date(s): March 22, 2004, March 19, 200-	4. April 2, 2004. April 2, 2004
4. Application number(s) or patent number(s):	
If this document is being filed together with a new o	
If this document is being filed together with a new a	application, execution date of the application is:
A. Patent Application No.(s)	B. Patent No.(s)
Application No.: 10/699,184 Date Filed:	: 10/31/2003
Configuration	
	mbars attached? NO
Name and address of party to whom corresponder concerning document should be mailed:	nce 5. Total number of applications and patents involved:
Records Manager	7. Total Fee (37 CFR 3.41); \$40.00
Intellectual Property Administration	** ***********************************
HEWLETT-PACKARD COMPANY P.O. Box 272400	Enclosed
Fort Collins, Colorado 80527-2400	X Authorization to be charged to deposit account.
	8. Deposit Account Number: 08-2025
DO NOT U	ISE THIS SPACE
. Statement and signature.	
	g information is true and correct and any attached copy is a
Lucinda G. Price Name of Person Signing Signature	May 05, 2004
	Date
Total number of pages inch	uding cover sheet, attachments, and document: 6
MS No. 0661-0011 (exp. 4/84)	
Do Not deta ail document to be recorded with required cover shee	ach this portion
Mail Stop Assignm Director of the US p PD	nent Recordation Services atent and Trademark Office
Alexandria	VA 22313-1450

Ab- 10/05 (Monangori)

05:08 FAX 6123393061 When recorded please return to:

HEWLETT-PACKARD COMPANY

Intellectual Property Administrator P. O. Box 272400 Fort Collins, Colorado 90527-2400 PATENT APPLICATION

ATTORNEY DOCKET NO. 100202925-1

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 Pertnership 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 agriculture right title and interest including the right of priority in the and undersors

application for Letters Patent of the United States et	
Filing date: 10/31/2003	Application No.: 10/699,184
Letters Patent, and any and all Letters Patent of the	forth therein, and any and all continuations, wals of and substitutes for said application for said United States and of countries foreign thereto which les, or reexaminations, or extensions of said Letters
the full end of the term or terms for which said Let	lications in my/our name for Letters Patent in any assors, assigns, nominees or legal representatives, to ters Patent respectively may be granted, reissued or d have been held and enjoyed by me/us had this
covenant and agree that I/we will, each time a required deliver all such papers as may be necessary or of improvement(s), said application and said Letters Palegal representatives, and I/we agree to communities pecting said invention(s) or improvement(s), said legal proceedings, to sign all lawful papers, to excellens, reissue and foreign applications, to make all everything possible to aid HPDC, its successors, as and enforce, for its or their own benefit, proper agree	ight to convey the entire interest herein assigned, and any agreement in conflict herewith, and I/we further lest is made, and without undue delay, execute and lesirable to perfect the title to said invention(s) or itent, to HPDC, its successors, assigns, nominees or cate to HPDC, or to its nominee, all known facts application and said Letters Patent, to testify in any acute all disclaimers and divisionals, continuations, in rightful oaths and declarations, and generally to do issigns, nominees and legal representatives to obtain ant protection for said invention(s) or improvement(s) which may be incurred by me/us in lending such
patents on applications as aforesaid, to issue to HPE any and all Letters Patent for said invention(s) or implied United States which may be issued and grante accordance with the terms of this assignment.	or or as assignee of the entire right, title and interest, provement(s), including any and all Letters Patent of d on or as a result of the application aforesaid, in
I/we further authorize and direct the attorneys of said application now identified by the attorney dock same shall have been made known to them by the Ui	record to insert the serial number and filing date of the number and title set forth above as soon as the nited States Patent and Trademark Office.
IN WITNESS WHEREOF, I/we hereunto set my/or	
nventor's Signature (Seal) Dete Assi	ignment Signed:
nventor's Typed Name; Nogh C. Lassar	Date Application Stoned:
State of	
County of) Ss.:	
Before me this day of, personally ersonally known or proved to me on the basis of satisfactory astrument of assignment to be his/her free act and dead.	/ appeared <u>Noah C. Lassar</u> who is evidence to be the person who acknowledged the foregoing

PATENT REEL: 014603 FRAME: 0772

Notary Public My commission expires: 05:09 FAX 6123393061 |When recorded please return to:

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

ATTORNEY DOCKET NO. ___100202925-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I/we here	eunto set i	my/our hand(s) and seal(s):	
Su. W. Se 4	20	Date Assignment Signed:5/2-2/04	
inventor's Signature (Seal)	_		_
Inventor's Typed Name: Steven W. Steinfi	ieki	Date Application Signed: 3/22/6 Y	
State of	1	- /- / - /	
County of) \$5.: }		
Before me this day of personally known or proved to me on the instrument of assignment to be his/her free		, personally appeared <u>Stoven W. Strinfield</u> satisfactory evidence to be the person who acknowledged the forest.	who is regoing
$\alpha + 1$	1.	Notary Public My commission expires:	
Inventor's Signature (Seal)	M.	Date Assignment Signed:	
Inventor's Typed Name; Joseph E. Scheffel	lin	Dete Application Signed: 3/(9/07	
State of	,	San Application signed (/ / (/	_
County of) \$a.:)		
Before me this day of personally known or proved to me on th instrument of assignment to be his/her free	e besie of s	Satisfactory evidence to be the person who allow the state of	who is egoing
		Notary Public	
		My commission expires:	
Inventor's Signature (Seal)		Date Assignment Signed:	-
nventor's Typed Name:		Date Application Signed:	
State of	1		_
County of) 88.:)		
Sefore me this day of		, personally appeared vestigation visit of the person who acknowledged the fore	vho in
ersonally known or proved to me on the estrument of assignment to be his/her free a	basis of se act and deed	satisfactory evidence to be the person who acknowledged the fored.	golng
		Notary Public	
		My Commission expires:	

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

Page 2 of

When recorded please return to:

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

1	PATEN [*]	T APPLICATION	
ATTORNEY D	OCKET NO.	100202925-1	

ASSIGNMENT OF PATENT APPLICATION (cont.)

	Data As for service	}
Inventor's Signature (Seel)	Date Assignment Signed:	<u> </u>
Inventor's Typed Name; M. Jeffery Igelma	n Date Applie	ation Signed:
State of	 ···	adoli Signeu.
State of)) ss.:	•
County of)	ı L
beigningly knowly of broken to we ou th	, personally appeared Ne basis of satisfactory evidence to be	M. Jeffery Igelman who a the person who acknowledged the foregoin
instrument of assignment to be his/her free	act and deed.	- -
		Notery Public
		My commission expires:
		'
		1
	Data Acalma Ci di	
Inventor's Signature (Seal)	Date Assignment Signed:	
Inventor's Typed Name: Frenk J. Breti	Date Applica	i ition 'Signed:
State of		
0.000)) &\$.:	l .
County of .)	
Before me this day of personally known or proved to me on the instrument of assignment to be his/her free	, personally appeared e basis of satisfactory evidence to be act and deed.	rank J. Breti who is the person who acknowledged the foregoing
		Notary Public
		My commission expires:
	Date Assignment Signed	
nventor's Signature (Seal)	Date Assignment Signed:	
		IAD Siannel
nventor's Typed Name:	Date Applicati	lon Signed:
nventor's Typed Name:	Date Applicati	Ion Signed:
nventor's Typed Name:tate of	Date Applicati	lon Signed:
tate of county of Before me this day of	Date Applicati)) ss.:)	
nventor's Typed Name:	Date Applicati)) ss.:) , personally appeared basis of satisfactory evidence to be t	
tate of county of Before me this day of ersonally known or proved to me on the	Date Applicati)) ss.:) , personally appeared basis of satisfactory evidence to be t	
nventor's Signature (Seal) nventor's Typed Name: itate of county of Before me this day of ersonally known or proved to me on the astrument of assignment to be his/her free a	Date Applicati)) ss.:) , personally appeared basis of satisfactory evidence to be t	

PATENT REEL: 014603 FRAME: 0774

☑ 006/008

5417158372

04/02/04 09:21am P. 00Z

PATENT APPLICATION

ATTORNEY POCKET NO. 100202925-7

WEWLETT-PACKARD COMPANY

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

assignment, and transfer not been made;

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:

FLUID EJECTION DEVICE WITH INSULATING FEATURE			
Filing date: 10/31/2003	Application No.: _	10/699,184	
and the invention(s) and improvement(s) continuations-in-part (C-I-P's), divisionals, and a Letters Patent of	ranawale of and cubetit	nited for cald age	lication for cald

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

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 teatify 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 ald 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 ma/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 seel(s):

Inventor's Signature (Seal)	Date Assignment Signed:
Inventor's Typed Name: Nosh C. Lassar	Date Application Signed:
State of	1
County of) ss.: }
Before me this day of personally known or proved to me on the Instrument of assignment to be his/her free	Noah C. Lessar who basis of setisfactory evidence to be the person who acknowledged the foregoin act and deed.
	Notery Public
	My continuen auptres:

HP

SCHWEGMAN, LUNDBERG, WOES

☑ 007/008

5417158972

04/02/04 **0**9:21am P. 00a

PATENT APPLICATION

ATTORNEY DOCKET NO. ___100202925-1

HEWLETT-PACKARD COMPANY Intellectual Property Administration P. O. Box 272400 Fort Collins, Coloredo 90527-2400

ASSIGNMENT OF PATENT APPLICATION (cont.)

N WITNESS WHEREOF, I/v	ve hereunto set my/our hand(s) and	seal(s):
,	· · · · · · · · · · · · · · · · · · ·	
ventor's Signature (Seal)	Date Assignment Sig	ned:
		1
ventor's Typed Name: Steven W	/. Steinfield Date A	pplication Signed:
tata of	1	
DUNTY of) sa.:)	!
Before me this day of	. poznostiv eppearad	Stown W. Christoffeld
reconally known or proved to o	ne on the basis of satisfactory evidence	Steven W: Steinfield who i
strument of assignment to be his	/her free act and deed.	
		Notary Public
		My commission expires:
		l .
	Ďata Apsidoment Sis	ned:
entor's Signatura (Seal)		
entor's Typod Name; Joseph E.	Scheffelin Date A	oplication Signed:
ite of		
) ss.:	į
unty of	•	
Before me thisday_of_	, personally appeared	Joseph E. Scheffelin who is
trument of assignment to be his		o be the person who acknowledged the foregoing
		<u> </u>
		Notiny Public
		My commission expires:
		-
entor's Signatura (Seal)	Dete Assignment Sign	rad:
-		
ontor's Typed Name:	Date Ap	plication Signed:
te of)	
anty of) 95.:	i
•)	1
Before me this day of	, personally appeared _	who la
sonary known or proved to me Nument of essignment to be his/h	en the basis of satisfactory evidence to her free act and deed.	be the person who acknowledged the foregoing
		!
		<u> </u>
		Notery Public My'commission applies
		Notary Public My commission axpires:

541**71583**72

учтан тесопоми разван тацит то:

HÉWLETT-PACKARD COMPANY Intellectuel Property Administration P. O. Box 272400 Fort Collins, Colorada 90527-2400

RECORDED: 05/05/2004

04/02/04 09:21am P. 004

PATENT APPLICATION

ATTORNEY DOCKET NO. __100202925-7

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WILEDESS V		į
_	hereunto set my/our hand(s) and se	!
M. Jally	Dete Assignment Signed	4/2/04
Inventor's Signature (Seal)	Oate Assignment Signed	11
Inventor's Typed Name: M. Jeffery Ige	elman Date Appli	eation Signed: 4/2/64
State of)	
County of) 89.:	İ
Perform non thin	• .	i
personally known or proved to me d instrument of assignment to be his/her	printhe basis of setisfactory evidence to be free act and deed.	M. Jettery reelman who is the person who acknowledged the foregoing
		Notary Public
		My commission expires:
		•
113 -	40	, ,
Soul Die	Deta Assignment Signed:	<u>4/</u> 2/04
Inventor's Signature (Seal)		4/Z/04 sation Signed: 4/Z/04
Inventor's Typed Name: Frank J. Brati	Date Applic	ation Signed: 4/Z/04
State of) 	
County of .) aer:	į
Before me this day of	personally appeared	Event 1 Persi
personally known or proved to me or instrument of assignment to be his/hor i	l ICO DREIS Of Satisfactors auditorea to be	o the person who acknowledged the foregoing
	woo act and gayg.	;
		Notary Public
·		Му солителіся ворінує:
	·	
nventor's Signature (Saal)	Oeta Assignment Signed:	i
nventor's Typed Name:	Date Applica	tion Signed:
State of	}	6
County of) 65.:)	
Before me this day of	, personally appeared	, ,
ersonally known or proved to me on netrument of assignment to be his/her fr	the basis of satisfactory guidance to be	the person who acknowledged the foregoing
		Name of the Control o
		Netary Public My commission expires:
		1
		i
(Use Pag	ge Thrae For Additional invantor(s) Signature(s))	Page 2 of
		i

PATENT

REEL: 014603 FRAME: 0777