F ORM PTO-1595 -31-92	05-14-200	EET Patent and Trademark Office Attorney Docket No. 200208117
 Name of conveying party(ies). Peter Mardiolvich David Champion Gregory S Herman James O'Neil 	102447093 5.12.03 HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P 20555 SH 249 Houston, TX 77070	
Additional name(s) of conveying partylies) 3. Nature of Conveyance:	attached Yes X No	Additional name(s) & address(es) attached?YesX No
<u>X</u> Assignment	Merger	
Security Agreement	Other	ANCE 12
Execution Date(s): 05/01/2003, 04	4/29/2003, 05/05/200;	3 & 05/08/2003 Respectivley
4. Application number(s) or patent If this document is being filed toge		3 & 05/08/2003 Respectivley
A Patent Application No.(s)		B. Patent No.(s)
Application No.: 10/359,976	Date Filed: 02	/07/2003
ے۔ Confirmation No.: 3770	Additional numbe	rs attached? NO
5. Jame and address of party to whom correspondence concerning document should be mailed: Records Manager Intellectual Property Administration HEWLETT-PACKARD COMPANY P.O. Box 272400 Fort Collins, Colorado 80527-2400		
		8. Deposit Account Number: 08-2025
(DO NOT USE	THIS SPACE
true copy of the original document 5/13/2003 GTDN11 00000131 062025 10 FC:3021 40.00 CH Trisha Melcher Name of Person Signing	359976 Jusha T Signature	May 08, 2003 Date Date
OME No. 0651-0011 (exp. 4/94)	· · · · · · · · · · · · · · · · · · ·	
Mail document to be recorded with	n required cover sheet Mail Stop Assignme Director of the US Pa PO E	nt Recordation Services tent and Trademark Office Rox 1450
	Alexandria,	VA 22313-1450

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PATENT REEL: 014048 FRAME: 0080

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

ATTORNEY DOCKET NO. 200208117-1

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, to and under an application for Letters Patent of the United States entitled:

Oscillating Gas Flow In Fuel Cells

Filing date: February 07, 2003

Application No.: 10/359,976

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 teliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or mprovement(s), said application and said Letters Patent, to HPDC, its successors, assigns, nominees or egal representatives, and I/we agree to communicate to HPDC, or to its nominee, all known facts especting said invention(s) or improvement(s), said application and said Letters Patent, to testify in any egal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, 2-I-P's, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do overything 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 ooperation 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):

(Is Mardin)	Date Assignment Signed: 05/01/03
In rentor's Signature (Seal) Friendor's Typed Name: Peter Mardilovich	Date Application Signed: 05/01/03
Shate of)) ss.:
C. unty of)

Before me this day of _____, personally appeared _____Peter_ Mardilovich 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.

> Notary Public My commission expires:

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

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When recorded please return to:	PATENT A	PPLICATION
HEWLETT-PACKARD COMPANY Intellectual Property Administration P. O. Box 272400	ATTORNEY DOCKET NO. 20	
Fort Collins, Colorado 80527-2400		
ASSIG	NMENT OF PATENT APPLICATION (cont.)	
IN WITNESS WHEREOF, I/we hereunt	o set my/our hand(s) and seal(s):	
	2/2/->	
Inventor's Signature (Seal)	Date Assignment Signed:	
Inventor's Typed Name: David Champion	Date Application Signed: 4/29/2	3
State of)		
)) ss.:	
County of)		
personally known or proved to me on the ba	, personally appeared <u>David Champion</u> asis of satisfactory evidence to be the person who acknowledge	who is d the foregoing
instrument of assignment to be his/her free act		
	Notary Public	
	My commission expires:	
١		
Tegan 5- Hermon	Date Assignment Signed: 05/05/03	
Inventor's Signature (Seal)		
Inventor's Typed Name: Gregory S Herman	Date Application Signed: 05/05/03	
State of)		
) ss.:	
Before me this day of personally known or proved to me on the ba instrument of assignment to be his/her free act	, personally appeared <u>Gregory S Herman</u> asis of satisfactorγ evidence to be the person who acknowledge and deed.	who is d the foregoing
	Notary Public	
	My commission expires:	
Investor's Signature (Seal)	Date Assignment Signed: 5/8/03 Date Application Signed: 5/8/03	
Inventor's Typed Name: James O'Neil	Date Application Signed: 5/8/0.3	
State of)		
)	SS.:	
County of)		

Before me this _____ day of ______, personally appeared ______ James O'Neil ______ 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.

Notary Public		
My commission	expires:	

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

Page 2 of 2

PATENT REEL: 014048 FRAME: 0082

Rev 02/03 (Assign)

RECORDED: 05/12/2003