PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Chien-Hua Chen	10/08/2009
Donald W. Schulte	10/08/2009
Terry Mcmahon	10/08/2009
Ying-Chih Liao	10/09/2009
David D. Hall	10/08/2009

RECEIVING PARTY DATA

Name:	Hewlett-Packard Development Company, L.P.
Street Address:	11445 Compaq Center Drive West
City:	Houston
State/Country:	TEXAS
Postal Code:	77070

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12575943

CORRESPONDENCE DATA

Fax Number: (970)778-4063

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

(970)898-4728 Phone:

Email: jerry.shorma@hp.com Correspondent Name: Hewlett-Packard Company Address Line 1: 3404 E. Harmony Road MS 35 Address Line 2: Intellectual Property Administration Address Line 4: Fort Collins, COLORADO 80528

NAME OF SUBMITTER: Terri Walker

Total Attachments: 4

REEL: 023554 FRAME: 0195

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> PATENT REEL: 023554 FRAME: 0196

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

PATENT APPLICATION

ATTORNEY DOCKET NO. ______ 200903243-1

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,

subsidiaries and affiliates, and	in furtherance of my/our obligation do hereby assign and transfer to HF right of priority, in, to and under an a	PDC, its successors and as:	signs, the entire right,
DETERMINING A HEALTHY F	LUID EJECTION NOZZLE		
<u></u>			anania
Filing Date: October 8, 200	O9 Applic	cation No.: 12/575,943	
and the invention(s) and impropersely, divisionals, and renewals Patent of the United States are reissues, or reexaminations, or I/we additionally authorized and enjoyed by HPDC, its terms for which said Letters Pesame would have been held an AND I/we hereby cover we have not executed and will that I/we will, each time a requirecessary or desirable to perfect Patent, to HPDC, its successor HPDC, or to its nominee, all k Letters Patent, to testify in any continuations, C-I-P's, reissue do everything possible to aid enforce, for its or their own be countries provided the expense	ivement(s) set forth therein, and any of and substitutes for said application of countries foreign thereto which extensions of said Letters Patent. orize HPDC to file applications in my successors, assigns, nominees or leatent respectively may be granted, and enjoyed by me/us had this assignment that I/we have full right to commot execute any agreement in conflect is made, and without undue delated the title to said invention(s) or in ors, assigns, nominees or legal reproper proceedings, to sign all lawful and foreign applications, to make all HPDC, its successors, assigns, nomelit, proper patent protection for sizes which may be incurred by me/us	y and all continuations, cont on for said Letters Patent, as h may be granted thereon of vour name for Letters Patent legal representatives, to the reissued or extended, as full ment, and transfer not been vey the entire interest herein lict herewith, and t/we furthe my, execute and deliver all su mprovement(s), said applica- presentatives, and t/we agre- n(s) or improvement(s), said papers, to execute all discla- li rightful oaths and declarati- prinees and legal represen- aid invention(s) or improven-	and any and all Letters or therefore; and any tin any country, to be full end of the term or lly and entirely as the made; assigned, and that linder covenant and agree ach papers as may be ation and said Letters to communicate to I application and said imers and divisionals, ions, and generally to tatives to obtain and nent(s) in any and all
and any official of any countrapplications as aforesaid, to is Patent for said invention(s) or be issued and granted on or as I/we further authorize application now identified by the	norize and request the Commissionery or countries foreign to the Unite sale to HPDC, as assignee of the improvement(s), including any and a result of the application aforesaid and direct the attorneys of recording attorney docket number and title the United States Patent and Trader	ed States whose duty it is entire right, title and interes all Letters Patent of the Unit , in accordance with the term to insert the serial number a set forth above as soon as	to issue patents on t, any and all Letters led States which may is of this assignment. and filing date of said
IN WITNESS WHEREOI	F, I/we hereunto set my/our hand(s) an	nd seal(s):	
Inventor's Signature (Seal)		Date Assignment Signed	
Chien-Hua Chen Inventor's Typed Name		Date Application Signed	
State of)) ss.::		
County of	ý		
Before me thisday of	, personally appeared	Chien-Hua Chen	who is personally
known or proved to me on the bassignment to be his/her free act a	asis of satisfactory evidence to be the part deed.	person who acknowledged the	foregoing instrument of
		Notary Public	······································
Rev 19/08 (Assignment)	Page 1 of 3	My Commission Expres	:

PATENT REEL: 023554 FRAME: 0197 HEWLETT-PACKARD COMPANY Intellectual Property Administrator P.O. Box 272400 Fort Collins, Colorado 80527-2400

Rev 15/08 (Assignment)

PATENT APPLICATION

ATTORNEY DOCKET NO. 200903243-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF	, I/we hereunto set my/our hand(:	shand coalist:	
M LIN M	. The state of the		
Name / n		10-08-09	
inventor's Signature (Seal)		Date Assignment Signed	
Donald W. Schulte		10-08-09	
Inventor's Typed Name	, , , , , , , , , , , , , , , , , , ,	Date Application Signed	*******
State of	• }		
) ss.:		
County of	5		
Before me this day of	, personally appeared	Donald W. Schulte who is perso	اللاشم
known or proyed to me on the ba	sis of satisfactory evidence to be	Donald W. Schulte who is perso the person who acknowledged the foregoing instrument	Bessy
assignment to be his/her free act a	nd deed.	and betanet with generalizations are toledonid histories	st; Oi
		Notary PUNCE	
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inventor's Signature (Seal)		Date Assignment Signed	circua.
Toons hammah ini			
Terry Mcmahon Inventor's Typed Name		Date Application Signed	******
missions i Aben Martin		Date Application Signed	
State of	·A		
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Asilla my) ss.:		
County of)		
Before me thisday of	personally appeared	Terry Mcmahon who is person	ally
known or proved to me on the ba	sis of satisfactory evidence to be t	he person who acknowledged the foregoing instrumer	t of
assignment to be his/her free act ar	d deed.		
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miranion a digitaldie (deal)		Date Assignment Signed	
Ying-Chih Liao			
nventor's Typed Name		Plots Application Classed	*****
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State of	ě		
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Before me thisday of	, personally appeared	Ying-Chiti Liao who is persor	ally
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Page 2 of 3

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DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION (continued)

PATENT APPLICATION

ATTORNEY DOCKET NO. 200903243-1

Donald W. Schulte	US
Full Name of Sole or Second Inventor (first, middle (if any), last)	Citizenship
Inventor's Signature	Date
Albany OR US 97321	10.000
Inventor's Residence (City, State/Province, Country, Postal Code)	***************************************
1000 NE Circle Blvd. Corvellis Oregon 97330-4239 US	
Businese/Mailing Address	
Terry Momahon	US
Full Name of Sale or Third Inventor (first, middle (if any), lesi)	Citizenship
Inventor's Signature	Dete
Albany OR US 97321	
inventor's Residence (City, State/Province, Country, Postal Code)	
1900 NE Circle Blvd. Corveillis Oregon 97330-4239 US	
Business/Mailing Address	
Ying-Chin Liag	TVV
Full Name of Sole or Fourth Inventor (first, middle [if any], lest)	Cescenship
	10/69/2009
inventor's Signature	Date Date
Taipei; Taiwan 10617	
Inventor's Residence (City, State/Province, Country, Postal Code)	
No. 1 Sec. 4 Rescense to Rd. Taipei city. Businese/Mailing Address	<u> Taiwan 196</u>
David D. Hall	US
Full Name of Sole or Fifth Inventor (first, middle [if any], last)	Cilizenship
inventor's Signature	Oete
Corvellis OR US 97330	COW
invertior's Residence (City, State/Province, Country, Postal Code)	
1000 NE Circle Blvd. Corveille Oregon 97330-4239 US	
Businese/Mailing Address	

Page 2 of 2

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PATENT APPLICATION

ATTORNEY DOCKET NO. 200903243-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

<u> </u>	<u></u>	10~8-09	
Inventor's Signature (Seal)		Date Assignment Signed	
Paulie P. Carl		A security of the second of th	
David D. Hall Inventor's Typed Name		Date Application Signed	
nvento sa yped came		Cate Application Signed	
State of	}		
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County of			
Before me this day of	normali appagad	Philips Pt. Mall Subscin presidently	
	of satisfactory evidence to be t	David D. Hall who is personally who is personally be person who acknowledged the foregoing instrument of	
assignment to be his/her free act and		no paradir mile demonitudged the languing matament of	
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Before me thisday of	, personally appeared	who is personally	
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		Notary Public	
Pari 48000 Tandinamana	Page 3 of 3	My Commission Expires:	
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RECORDED: 11/23/2009