PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Rio Rivas	04/23/2008
Jon A. Crabtree	04/23/2008
Eric L. Nikkel	04/23/2008
Siddhartha Bhowmik	04/23/2008
Bradley D. Chung	04/23/2008
Samson Berhane	04/23/2008

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:	12933218

CORRESPONDENCE DATA

501295074

(970)778-4063 Fax Number:

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

(970)898-4728 Phone: jerry.shorma@hp.com Email: 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

PATENT

REEL: 025010 FRAME: 0467

Total Attachments: 3

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> PATENT REEL: 025010 FRAME: 0468

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

Rev 10/063 (Assignment)

PATENT APPLICATION

ATTORNEY DOCKET NO.

200704379-1

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and her DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership is Texas, (hereinafter HPDC), in furtherance of my/our obligation subsidiaries and affiliates, and do hereby assign and transfer to HP title and interest, including the right of priority, in, to and under an a entitled:	naving its principal place of business in Houston, ins to the Hewlett-Packard Company and its PDC, its successors and assigns, the entire right,
PRINTING DEVICE	
Filing Date: April 29, 2008 Applic	ation No.: PCT/US2008/005663
and the invention(s) and improvement(s) set forth therein, and any P's), divisionals, and renewals of and substitutes for said application Patent of the United States and of countries foreign thereto which reissues, or reexaminations, or extensions of said Letters Patent. I/we additionally authorize HPDC to file applications in mytheld and enjoyed by HPDC, its successors, assigns, nominees or letters.	r and all continuations, continuations-in-part (C-I- in for said Letters Patent, and any and all Letters in may be granted thereon or therefore; and any four name for Letters Patent in any country, to be egal representatives, to the full end of the term or
terms for which said Letters Patent respectively may be granted, it same would have been held and enjoyed by me/us had this assignm. AND l/we hereby covenant that l/we have full right to convive have not executed and will not execute any agreement in conflict that l/we will, each time a request is made, and without undue delanecessary or desirable to perfect the title to said invention(s) or in Patent, to HPDC, its successors, assigns, nominees or legal repitively. On to its nominee, all known facts respecting said invention Letters Patent, to testify in any legal proceedings, to sign all lawful a continuations. C-I-P's, reissue and foreign applications, to make all de everything possible to aid HPDC, its successors, assigns, no enforce, for its or their own benefit, proper patent protection for secountries provided the expenses which may be incurred by me/us paid by HPDC;	eissued or extended, as fully and entirely as the nent, and transfer not been made; wey the entire interest herein assigned, and that if it is therewith, and Ifwe further covenant and agree by, execute and deliver all such papers as may be improvement(s), said application and said Letters resentatives, and Ifwe agree to communicate to its) or improvement(s), said application and said sapers, to execute all disclaimers and divisionals, in rightful paths and declarations; and generally to minees and legal representatives to obtain and aid invention(s) or improvement(s) in any and all
AND live hereby authorize and request the Commissioner and any official of any country or countries foreign to the Unite applications as aforesaid, to issue to HPDC, as assignee of the e Patent for said invention(s) or improvement(s), including any and a be issued and granted on or as a result of the application aforesaid. I/we further authorize and direct the attorneys of record to application now identified by the attorney docket number and title been made known to them by the United States Patent and Tradem	ed States whose duty it is to issue patents on antire right, title and interest, any and all Letters all Letters Patent of the United States which may in accordance with the terms of this assignment, o insert the serial number and filing date of said set forth above as soon as the same shall have
IN WITNESS WHEREOF, liwe hereunto set mylour hand(s) and	d seal(s):
Rão Brison	4/23/08 Date Assignment Signed
Inventor's Signature (Seal)	Date Assignment Signed
Rio Rivas	4/23/08
Inventor's Typed Name	Date Application Signed
State of)	
County of)	
Before me this day of personally appeared	who is personally
known or proved to me on the basis of satisfactory evidence to be the plassignment to be his/her free act and deed.	erson who acknowledged the foregoing instrument of
	Notary Passe My Correnssion Express

Page 1 of 3

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

PATENT APPLICATION

ATTORNEY DOCKET NO. 200704379-1

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Jon A. Crabtree		4/23/2008
Inventor's Typed Name	**************************************	Date Application Signed
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Siddhartha Bhowmik		
Inventor's Typed Name		Date Application Signed
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HEVALETT-PACKARD COMPANY Intellectual Property Administrator P.O. Box 272400 Fort Collins, Coloredo 60527-2400

PATENT APPLICATION

ATTORNEY BOCKET NO. 2007-04379-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

// IN WITHESS WHEREOF, IN	we hereunto set my/our hand(s) and seal(s):
15 mil 1/20 /		4/24/08
nventor's Signature (Seal) /	7	Date Assignment/Signed
Bradley D. Chung	Lande	4/24/18
nventor's Typed Name	***************************************	Date Application Signed
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Samson Berhand		04/23/2008
Inventor's Typed Name	**************************************	Data descripation General
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	Page 3 of 3	My Commission Expires:
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RECORDED: 09/20/2010