501916959 05/10/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Christopher S. TANNER	02/29/2012
David SABO	03/01/2012
Eric G. NELSON	02/29/2012

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:	13408931

CORRESPONDENCE DATA

Fax Number: (970)778-4063 Phone: (541)715-8443

Email: pto.assignments@hp.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

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: Colleen F. Brown

Total Attachments: 3

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> PATENT REEL: 028189 FRAME: 0934

HEWLETT-PACKARD COMPANY intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

Reviewed (Assignment)

PATENT APPLICATION

RECORD ID:	82938307
RECORD ID:	82938307

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.

Filing Date:	02/29/2012	Application No.:	13/408,931
and the invention(P's), divisionals, a Patent of the Unit reissues, or reexamilate and enjoyed it terms for which as same would have we have not executive will, each necessary or deal. Patent, to HPDC, or to its no Letters Patent, to it continuations. C4-do everything posenforce, for its or countries provided paid by HPDC; AND laws and any official of applications as affiliated and grain laws furth application now id known to them by the insulate.		rein, and any and all continuated application for said Lette thereto which may be grant are Patent. ations in my/our name for Lominees or legal represents be granted, reissued or extent this assignment, and transfright to convey the entire innent in conflict herewith, and transfright to convey the entire in tundus delay, execute and minon(s) or improvement(s), or legal representatives, are said invention(s) or improvergn all lawful papers, to execute and invention(s) or improvergn all lawful papers, to execute the conflict of the conflict invention(s) ed by missioner of Patents and to the United States whos prese of the entire right, title night, and all Letters Pater on aforesaid, in accordance is of record to insert the series of the above as soon as	rations, continuations-in-part (C-I- rs Patent, and any and all Letters ed thereon or therefore, and any etters Patent in any country, to be tives, to the full end of the term or inded, as fully and entirely as the er not been made; terest herein assigned, and that I, it tive further covenant and agree deliver all such papers as may be said application and said Letters and tive agree to communicate to nent(s), said application and said tive agree to communicate to nent(s), said application and said all disclaimers and divisionals, and declarations, and generally to pal representatives to obtain and or improvement(s) in any and ai in cooperation and assistance are it trademarks of the United States are duty it is to issue patents on and interest, any and all Letters at of the United States which may with the terms of this assignment, ial number and filling date of said the same shall have been made
Christopher S. TANN Inventor's Typed Nar		7./2	4/2
Inventor's Signature		Date Assign:	nent Signed
inventor's Typed Nar	ne	Date Applica	lion Signed

Page 1 of 2

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Hammony Road Mail Stop 35 Fort Collins, Colorade 80529

PATENT APPLICATION

RECORD ID:	82938307

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 splitted.

APPARATUS TO RECEIVE A DEVELOPER ROLLER

Filing Date:	02/29/2012	Application No.:	13/408,931
and the invention(s	and improvement(s) set forth th	erein, and any and all continu	ations, continuations-in-part (C-I-
P's), divisionals, an	d renewals of and substitutes for	said application for said Lette	rs Patent, and any and all Letters
			ed thereon or therefore; and any
reissues, or reexam	inations, or extensions of said Let	ters 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, essigns, 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 live hereby covenant that live have full right to convey the entire interest herein assigned, and that live have not executed and will not execute any agreement in conflict herewith, and live further covenant and agree that live 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 live 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 paths and declarations, and generally to de 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 live 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 Record ID 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

inventor's Signature	Date Assignment Signed
Christopher S. TANNER	
Inventor's Typed Name	Date Application Signed
	3/1/12
inventor's Signalius	Date Assignment Signed
David SABO	3/1/12
Inventor's Typed Name	Date Application Signed

Rev 09/33 (Assignment)

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HEVVLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35

PATENT APPLICATION

Mail Stop 35 Port Collins, Colorado 80525	RECORD D:	82938307
	OF PATENT APPLICATION (con	t.)
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nveritor's Signature	Date Assignme	int Bigned
Eric G. NEUSON Inventor's Typed Name	Date Application	nn Signed
Inventor's Signature	Deta Assignme	ent Signed
Inventor's Typed Name	Date Applicatio	an giğüseğ
Inventor's Signature	Data Assignme	nt Signed
Inventor's Typed Name	Oate Applicatio	n Signed
Inventor's Signature	orrugiszA steC	nt Signed
Inventor's Typed Name	Date Applicate	si Signed
inventor's Signature	Cate Assignme	rri Signed
inventor's Typed Name	Date Applicatio	η Signed
nyentor's Signature	Date Assignme	nt Signed
nventor's Typed Name	Date Application	n Signed

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RECORDED: 05/10/2012

Nev 98/11 (Assignment)

PATENT REEL: 028189 FRAME: 0937