503056794 11/11/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3103395

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CARL E PICCIOTTO	10/04/2005
JUN GAO	10/04/2005
RONALD A HELLEKSON	10/04/2005
JUDSON M LEISER	10/06/2005

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:	11209134

CORRESPONDENCE DATA

Fax Number: (970)778-4063

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (541)715-8443

Email: ipa.mail@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

ATTORNEY DOCKET NUMBER:	82211144
NAME OF SUBMITTER:	HEATHER ELLIS
SIGNATURE:	/Heather Ellis/
DATE SIGNED:	11/11/2014

Total Attachments: 3

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

PATENT APPLICATION

ATTORNEY DOCKET NO. 200502628-1

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:

Company and its subsidiaries and affiliates, and do he and assigns, the entire right, title and interest, incluapplication for Letters Patent of the United States entitle	uding the right of priority, in, to and under an
SYSTEM AND METHOD FOR CALCULATING A SHIFT V	ALUE BETWEEN PATTERN INSTANCES
Filing date: Aug. 22, 2005 A	pplication No.: 11/209,134
and the invention(s) and improvement(s) set fo continuations-in-part (C-I-P's), divisionals, and renewa Letters Patent, and any and all Letters Patent of the Ur may be granted thereon or therefor; and any reissues Patent.	Is of and substitutes for said application for said ited States and of countries foreign thereto which
I/we additionally authorize HPDC to file applica country, to be held and enjoyed by HPDC, its success the full end of the term or terms for which said Letter extended, as fully and entirely as the same would assignment, and transfer not been made;	s Patent respectively may be granted, reissued or
AND I/we hereby covenant that I/we have full right that I/we have not executed and will not execute any covenant and agree that I/we will, each time a request deliver all such papers as may be necessary or desimprovement(s), said application and said Letters Patellegal representatives, and I/we agree to communicar respecting said invention(s) or improvement(s), said aplegal proceedings, to sign all lawful papers, to exect C-I-P's, reissue and foreign applications, to make all rieverything possible to aid HPDC, its successors, assigned enforce, for its or their own benefit, proper patent in any and all countries provided the expenses whice cooperation and assistance are paid by HPDC;	r agreement in conflict herewith, and I/we further agreement in conflict herewith, and I/we further it is made, and without undue delay, execute and irable to perfect the title to said invention(s) or not, to HPDC, its successors, assigns, nominees or the to HPDC, or to its nominee, all known facts application and said Letters Patent, to testify in any unter all disclaimers and divisionals, continuations, ghtful oaths and declarations, and generally to do gns, nominees and legal representatives to obtain protection for said invention(s) or improvement(s)
AND I/we hereby authorize and request the Comm States and any official of any country or countries for patents on applications as aforesaid, to issue to HPDC any and all Letters Patent for said invention(s) or imprethe United States which may be issued and granted accordance with the terms of this assignment.	, as assignee of the entire right, title and interest, ovement(s), including any and all Letters Patent of
I/we further authorize and direct the attorneys of r said application now identified by the attorney docker same shall have been made known to them by the Uni-	ecord to insert the serial number and filing date of t number and title set forth above as soon as the ted States Patent and Trademark Office.
IN WITNESS WHEREOF, I/we hereunto set my/our	
Inventor's Signature (Seal)	nment Signed: 10/4/2005
Inventor's Typed Name: Carl E. Picciotto	Date Application Signed: 10/4/2005
State of)	' *
County of) ss.:	
Before me this day of, personally personally known or proved to me on the basis of satisfactory construment of assignment to be his/her free act and deed.	appeared <u>Carl E. Picciotto</u> who is evidence to be the person who acknowledged the foregoing
	Notary Public My commission expires:
Rev 12/04 (Assign) (Use Page Two For Additional Inventor(s	s) Signature(s)) Page 1 of 3

PATENT

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

PATENT APPLICATION ATTORNEY DOCKET NO. 200502628-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I/we	hereunto set my/	our hand(s) and se	al(s):		
Inventor's Signature (Seal)		Date Assignment Signed	ı <u>. 10</u> -	-04 - 200 10-04-2	5
Inventor's Typed Name: Jun Gao		Date Appli	cation Signed:	10-04-2	9D \(\)
State of)	•••	-		
County of) ss.:)				
Before me this day of personally known or proved to me instrument of assignment to be his/h	on the basis of sati	personally appeared isfactory evidence to b	Jun Gao pe the person	who acknowledged the f	_ who is oregoing
				ry Public ommission expires:	
Poncol A . H ell Inventor's Signature (Seal)	elser o	Date Assignment Signed	: <u>10 -</u>	04-2005	
Inventor's Typed Name: Ronald A. H	ellekson	Date Applic	cation Signed:	10-04-5001	<u> </u>
State of .	1				
County of) ss.: }				
instrument of assignment to be his/h	er tree act and deed.			y Public ommission expires:	
Inventor's Signature (Seal)	D	ate Assignment Signad:	:		
Inventor's Typed Name: Judson M. L	eiser	Date Applic	ation Signed:		
State of)				
County of) ss.:)				
Before me this day of personally known or proved to me instrument of assignment to be his/he	on the basis of satis	ersonally appeared sfactory evidence to b	Judson M. Lei e the person	iser who acknowledged the fo	_ who is pregoing
				y Public mmission expires:	
(Use	: Page Three For Addition	al Inventor(s) Signature(s))		Page 2 of	3
Nev 12/04 (Assign)					

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PATENT APPLICATION

ATTORNEY DOCKET NO. 200502628-1

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

ASSIGNMENT OF PATENT APPLICATION (cont.)

	Date Assignment Signed:	
nventor's Signature (Seal)		
nventor's Typed Name: Jun Gao	Date Application Signed:	
itate of)	
County of) ss. :	
5 .		
sersonally known or proved to me on enstrument of assignment to be his/her	, personally appeared <u>Jun Gao</u> on the basis of satisfactory evidence to be the person rifue act and deed.	who acknowledged the foregoing
	, and the state of	th shile.
	Notary My coi	mmission expires:
	Date Assignment Signed:	
nventor's Signature (Seal)		
nventor's Typed Name: Ronald A. Hel	liekson Date Application Signed:_	
State of	}	
) ss.:	
	1	
Before me this day of ersonally known or proved to me o estrument of assignment to be his/her	, personally appeared Ronald A. Helle on the basis of satisfactory evidence to be the person free act and deed.	okson who is who acknowledged the foregoing
Before me this day of ersonally known or proved to me of	por the basis of satisfactory evidence to be the person free act and deed.	who acknowledged the foregoing
Before me this day of ersonally known or proved to me of	por the basis of satisfactory evidence to be the person free act and deed.	who acknowledged the foregoin
Before me this day of ersonally known or proved to me of	, personally appeared Ronald A. Helbert in the basis of satisfactory evidence to be the person free act and deed. Notary My con	who acknowledged the foregoing Public Inmission expires:
Before me this day of ersonally known or proved to me of assignment to be his/her	, personally appeared Ronald A. Helbert in the basis of satisfactory evidence to be the person free act and deed. Notary My con	who acknowledged the foregoing Public Inmission expires:
Before me this day of ersonally known or proved to me of	por the basis of satisfactory evidence to be the person free act and deed. Notary My con	who acknowledged the foregoing Public Inmission expires:
Before me this day of ersonally known or proved to me of assignment to be his/her	por the basis of satisfactory evidence to be the person free act and deed. Notary My con	who acknowledged the foregoing Public Inmission expires:
Before me this day of versonally known or proved to me of assignment to be his/her assignment of assignment to be his/her assignment of assignment to be his/her	pon the basis of satisfactory evidence to be the person free act and deed. Notary My con	who acknowledged the foregoing Public Inmission expires:
Before me this day of ersonally known or proved to me of assignment to be his/her assignment to be his/her assignment so signature (Seal)	personally appeared Ronald A. Helbert in the basis of satisfactory evidence to be the person free act and deed. Notary My continued: Dete Assignment Signed: Date Application Signed:	who acknowledged the foregoing Public Inmission expires:
Before me this day of		Public Inmission expires:
Before me this day of resonally known or proved to me of assignment to be his/her restrument of assignment of assi		who acknowledged the foregoing Public Innission expires: 105 10/6/05 who is
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Before me this day of versionally known or proved to me of instrument of assignment to be his/her assignment t		Public Intrinsion expires: O O O S Who is who acknowledged the foregoing
Before me this day of resonally known or proved to me of assignment to be his/her restrument of assignment to be his/her restrument assignment to be his/her restrument of assignment to be his/her resonally known or proved to me of assignment to be his/her		Public Inmission expires: O O O S who acknowledged the foregoing or public inmission expires:
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RECORDED: 11/11/2014