FORM PTO-1595 , / 1-31-92	10-13-	2005	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
			Attorney Docket No. 200407414-1
Name of conveying party(ies):	103099	9084	dress of receiving party(ies):
Marjan S. Amesbury			-PACKARD DEVELOPMENT COMPANY, L.P.
Barbara Helen Baxter		20555 SH	249
Michael O. King		Houston,	TX 77070
Mark T. Hardin			
Qiong Chen			
Muay Kheng Neo			
Additional name(s) of conveying party(ies) atta	ched X Yes No	Additional name	(s) & address(es) attached?Yes _X No
3. Nature of Conveyance:		 	
X Assignment	Merger		Change of Name
Security Agreement	Other		27, 2005 PR/F AND
Execution Date(s): May 20, 24, 27, 3	0, 2005, June 6, 2	005 and Sept.	27, 2005
4. Application number(s) or patent nu	mber(s):		
If this document is being filed together	er with a new appli	cation, execution	on date of the application is: $\frac{2}{5}$
A. Patent Application No.(s)			B. Patent No.(s)
Application No.: 11/111,540	Date Filed: Ap	or. 21, 2005	
Confirmation No.:	Additional number	ers attached? _	NO_
		6. Total numb	er of applications and patents involved: 1
concerning document should be ma	alleu.	7. Total Fee (3	37 CFR 3.41): \$40.00
Intellectual Property Administration HEWLETT-PACKARD COMPANY	1	Enc	losed
P.O. Box 272400	•		horization to be charged to deposit account.
Fort Collins, Colorado 80527-240	U		
		l	count Number: 08-2025
	DO NOT USE	THIS SPACE	
9. Statement and signature.			
	lief, the foregoing i	nformation is ti	rue and correct and any attached copy is a
true copy of the original document.			
		19	1/12/2005 LMUELLER 00000055 082025 11111540
Julia Church Dierker	h	1 pi	FC:8821 QC:605 2005
Name of Person Signing	Signature		Date
	imber of pages includ	ing cover sheet,	attachments, and document: 8
OMB No. 0651-0011 (exp. 4/94)	Do Not detac	h this portion	
Mail document to be recorded with require			
	Mail Stop Assignme	ent Recordation Se	
		Box 1450	. 5.1100
1	Alexandria,	VA 22313-1450	

Rev 12/04 (Recdasgn)

PATENT REEL: 017063 FRAME: 0384

FOŘM	PTO-1595
1-31-9	2

RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

PATENTS ONLY

Attorney Docket No. 200407414-1

1. Name of conveying party(ies):	2. Name and address of receiving party(ies):
Louis-Raymond Rozario	HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. 20555 SH 249 Houston, TX 77070

PATENT APPLICATION

ATTORNEY DOCKET NO. 200407414-1

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

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:

		······································	<u> </u>
Filing date: April 21, 2	2005	_ Application No.:	11/111,540
continuations-in-part (C- Letters Patent, and any	I-P's), divisionals, and re and all Letters Patent of	enewals of and substance the United States and	and any and all continuations, titutes for said application for said of countries foreign thereto which tions, or extensions of said Letters
country, to be held and the full end of the term	enjoyed by HPDC, its su or terms for which said entirely as the same w	ccessors, assigns, no Letters Patent respec	ir name for Letters Patent in any ominees or legal representatives, to tively may be granted, reissued or d and enjoyed by me/us had this
that I/we have not exect covenant and agree that deliver all such papers improvement(s), said ap legal representatives, air respecting said invention legal proceedings, to si C-I-P's, reissue and fore everything possible to a and enforce, for its or the	cuted and will not execu- t I/we will, each time a r as may be necessary of plication and said Letters and I/we agree to common(s) or improvement(s), s agn all lawful papers, to aign applications, to make aid HPDC, its successors are provided the expense	te any agreement in equest is made, and or desirable to perfect Patent, to HPDC, or aid application and sexecute all disclaims all rightful oaths and assigns, nominees patent protection for several end and assigns, assi	entire interest herein assigned, and conflict herewith, and I/we further without undue delay, execute and the title to said invention(s) or successors, assigns, nominees or to its nominee, all known facts aid Letters Patent, to testify in any ers and divisionals, continuations, dideclarations, and generally to do and legal representatives to obtain said invention(s) or improvement(s) curred by me/us in lending such
States and any official of patents on applications any and all Letters Pater	of any country or countric as aforesaid, to issue to nt for said invention(s) or h may be issued and gra	es foreign to the Unit HPDC, as assignee o improvement(s), incl	ents and Trademarks of the United ed States whose duty it is to issue f the entire right, title and interest, luding any and all Letters Patent of ult of the application aforesaid, in
said application now ide	e and direct the attorney entified by the attorney of ade known to them by the	locket number and ti	the serial number and filing date of tle set forth above as soon as the nt and Trademark Office.
IN WITNESS WHERI	EOF, I/we hereunto set m	y/our hand(s) and sea	al(s):
Maya DA	nestry Date	Assignment Signed:	May 24, 2005 Signed: May 24, 2005
Inventor's Typed Name: <u>Marja</u>	n S. Amesbury	Date Application	Signed: May 24, 2005
State of)		0
County of) ss.:)		
			n S. Amesbury who is person who acknowledged the foregoing
			Notary Public
			My commission expires:
Rev 12/04 (Assign)	(Use Page Two For Additional In	ventor(s) Signature(s))	Page 1 of 3

1 of 6

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

PATENT APPLICATION ATTORNEY DOCKET NO. 200407414-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I/we hereunto set	my/our hand(s) and seal(s):
Awara Aslen Baxten Inventor's Signature (Seal)	
Inventor's Typed Name: Barbara Helen Baxter	Date Application Signed: Rati 21, 2005
State of	
) ss.: County of	
•	
personally known or proved to me on the basis of instrument of assignment to be his/her free act and de	
	Notary Public
	My commission expires:
see other sheet	
Inventor's Signature (Seal)	Date Assignment Signed:
Inventor's Typed Name: Michael O. King	Date Application Signed:
	Date Application Signed
) ss.:	
County of)	
Before me this day of	_, personally appearedMichael O. King who is
instrument of assignment to be his/her free act and dec	satisfactory evidence to be the person who acknowledged the foregoing
	satisfactory evidence to be the person who acknowledged the foregoing
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instrument of assignment to be his/her free act and dec	satisfactory evidence to be the person who acknowledged the foregoing ed. Notary Public My commission expires:
Inventor's Signature (Seal)	satisfactory evidence to be the person who acknowledged the foregoing ed. Notary Public My commission expires:
Inventor's Typed Name: Mark T. Hardin	satisfactory evidence to be the person who acknowledged the foregoing ed. Notary Public My commission expires:
Inventor's Signature (Seal) Inventor's Typed Name: Mark T. Hardin State of) ss.: County of) ss.:	satisfactory evidence to be the person who acknowledged the foregoing ed. Notary Public My commission expires:
Inventor's Signature (Seal) Inventor's Typed Name: Mark T. Hardin State of) ss.: County of) sss.: Before me this day of personally known or proved to me on the basis of seal and decent and dece	satisfactory evidence to be the person who acknowledged the foregoing ed. Notary Public My commission expires:
Inventor's Signature (Seal) Inventor's Typed Name: Mark T. Hardin State of) ss.: County of) sss.: Before me this day of personally known or proved to me on the basis of seal and decent and dece	satisfactory evidence to be the person who acknowledged the foregoing ed. Notary Public My commission expires: Date Assignment Signed: 5-24-05 Date Application Signed: 5-24-05 personally appeared Mark T. Hardin who is satisfactory evidence to be the person who acknowledged the foregoing d.
Inventor's Signature (Seal) Inventor's Typed Name: Mark T. Hardin State of) ss.: County of) sss.: Before me this day of personally known or proved to me on the basis of seal and decent and dece	Satisfactory evidence to be the person who acknowledged the foregoing ad. Notary Public My commission expires: Date Assignment Signed: 5-24-05 Date Application Signed: 5-24-05 personally appeared Mark T. Hardin who is satisfactory evidence to be the person who acknowledged the foregoing d.
Inventor's Signature (Seal) Inventor's Typed Name: Mark T. Hardin State of) ss.: County of) ss.: Before me this day of personally known or proved to me on the basis of sinstrument of assignment to be his/her free act and deer	Satisfactory evidence to be the person who acknowledged the foregoing ad. Notary Public My commission expires: Date Assignment Signed: 5-24-05 Date Application Signed: 5-24-05 personally appeared Mark T. Hardin who is satisfactory evidence to be the person who acknowledged the foregoing d.

2 of 6

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

PATEN	T APPLICATION	
ATTORNEY DOCKET NO.	200407414-1	

ASSIGNMENT OF PATENT APPLICATION (cont.)

Date Assignment Signed: Date Application Signed: Date Application Signed: Date Application Signed: Date Application Signed: Date Applica	IN WITNESS WHEREOF, I/we hereu	nto set my/our hand(s) and seal(s):
Inventor's Typed Name: Barbara Helen Baxter		Date Assignment Signed:
State of		
Before me this	Inventor's Typed Name: Barbara Helen Baxto	Date Application Signed:
Before me this	State of	•
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 Notary Pub	County of	
Date Assignment Signed: 5/20/65 Inventor's Signature (Seal) Date Application Signed: 5/20/65 Inventor's Typed Name: Michael O. King	personally known or proved to me on the	basis of satisfactory evidence to be the person who acknowledged the foregoing
Inventor's Signature (Seal) Inventor's Typed Name: Michael O. King Date Application Signed: Date Application Signed:		
State of)) ss.: Before me this day of personally appeared Michael O. King 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:	Moventor's Signature (Seal)	Date Assignment Signed: 5/20/05
Before me this day of personally appeared Michael O. King 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:	Inventor's Typed Name: Michael O. King	Date Application Signed:
Before me this day of	State of)
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:	County of	
nventor's Signature (Seal) nventor's Typed Name: Mark T. Hardin Date Application Signed: State of	personally known or proved to me on the	
State of) ss.: County of) personally appeared	•	basis of satisfactory evidence to be the person who acknowledged the foregoinct and deed. Notary Public
Before me this day of, personally appeared Mark T. Hardin who is rersonally 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:	nstrument of assignment to be his/her free a	basis of satisfactory evidence to be the person who acknowledged the foregoing and deed. Notary Public My commission expires:
Before me this day of, personally appeared	see other sheet nventor's Signature (Seal)	basis of satisfactory evidence to be the person who acknowledged the foregoing and deed. Notary Public My commission expires: Date Assignment Signed:
ersonally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing istrument of assignment to be his/her free act and deed. Notary Public My commission expires:	see other sheet nventor's Signature (Seal) nventor's Typed Name: Mark T. Hardin	basis of satisfactory evidence to be the person who acknowledged the foregoing and deed. Notary Public My commission expires: Date Assignment Signed: Date Application Signed:
My commission expires:	nstrument of assignment to be his/her free a See other sheet nventor's Signature (Seal) nventor's Typed Name: Mark T. Hardin	basis of satisfactory evidence to be the person who acknowledged the foregoing and deed. Notary Public My commission expires:
	see other sheet nventor's Signature (Seal) nventor's Typed Name: Mark T. Hardin State of County of Before me this day of personally known or proved to me on the	basis of satisfactory evidence to be the person who acknowledged the foregoing and deed. Notary Public My commission expires:
(Use Page Three For Additional Inventor(s) Signature(s)) Page 2 of 3	see other sheet nventor's Signature (Seal) nventor's Typed Name: Mark T. Hardin State of County of Before me this day of personally known or proved to me on the	basis of satisfactory evidence to be the person who acknowledged the foregoing that deed. Notary Public My commission expires:
(Use Page Three For Additional Inventor(s) Signature(s)) Page 2 of 3	see other sheet nventor's Signature (Seal) nventor's Typed Name: Mark T. Hardin state of County of Before me this day of ersonally known or proved to me on the	basis of satisfactory evidence to be the person who acknowledged the foregoing and deed. Notary Public My commission expires:
	see other sheet nventor's Signature (Seal) nventor's Typed Name: Mark T. Hardin State of County of Before me this day of personally known or proved to me on the	basis of satisfactory evidence to be the person who acknowledged the foregoing and deed. Notary Public My commission expires:

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

PATENT APPLICATION ATTORNEY DOCKET NO. 200407414-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I we hereunto set m	ny/our hand(s) and seal(s):
Chor	Date Assignment Signed: 06/06/c5
Inventor's Signature (Seal)	
Inventor's Typed Name: Qiong Chen	Date Application Signed
State of)	
) ss.: County of	
,	
personally known or proved to me on the basis of sinstrument of assignment to be his/her free act and dee	, personally appeared <u>Qiong Chen</u> who is satisfactory evidence to be the person who acknowledged the foregoing d.
	Notary Public
	My commission expires:
see other sheet	Date Assignment Signed:
Inventor's Signature (Seal)	
Inventor's Typed Name: Muay Kheng Neo	Date Application Signed
State of)	
County of) ss.:	
Before me this day of personally known or proved to me on the basis of s instrument of assignment to be his/her free act and deed	, personally appeared <u>Muay Kheng Neo</u> who is atisfactory evidence to be the person who acknowledged the foregoing d.
	Notary Public
	My commission expires:
see other sheet Inventor's Signature (Seal)	Date Assignment Signed:
- , ,	
Inventor's Typed Name: Louis-Raymond Rozano	Date Application Signed
State of)) ss.:	
County of	
	personally appeared who is atisfactory evidence to be the person who acknowledged the foregoing
instrument of assignment to be his/her free act and deed	l.
	Notary Public
	My commission expires:
(Use Next Page For Ad	ditional Inventor(s) Signature(s)) Page 3 of 3
Rev 12/04 (Assign2)	· · · · · · · · · · · · · · · · · · ·

When recorded please return to:

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

PATENT APPLICATION
ATTORNEY DOCKET NO. 200407414-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

N WITNESS WHEREOF,	I we hereunto set r	my/our hand(s) and seal(s):	
see other she	eet	Date Assignment Signed:	
nventor's Signature (Seal)			
nventor's Typed Name: Qiong	g Chen	Date Application Sign	ned
State of)		
) ss.:		
County of)		
Before me this day personally known or proved instrument of assignment to be	to me on the basis of	satisfactory evidence to be the per	en who is rson who acknowledged the foregoing
			Notary Public My commission expires:
Jamle		Date Assignment Signed: Date Application Sign	5/30/45
nventor's Signature (Seal)			513-105
nventor's Typed Name: Muay	Kheng Neo	Date Application Sign	ned
State of)) ss∴		
County of Before me this day personally known or proved instrument of assignment to be	y ofto me on the basis of	satisfactory evidence to be the per	eng Neo who is son who acknowledged the foregoing
Before me this day	y ofto me on the basis of	satisfactory evidence to be the per ad.	eng Neo who is son who acknowledged the foregoing Notary Public My commission expires:
Before me this day	y of to me on the basis of e his/her free act and dee	satisfactory evidence to be the pered.	Son who acknowledged the foregoing Notary Public My commission expires:
Before me thisday personally known or proved in instrument of assignment to be See other she inventor's Signature (Seal)	y of	satisfactory evidence to be the perad. Date Assignment Signed:	Son who acknowledged the foregoing Notary Public My commission expires:
Before me thisday personally known or proved in instrument of assignment to be See other she inventor's Signature (Seal)	y of	satisfactory evidence to be the pered.	Son who acknowledged the foregoing Notary Public My commission expires:
Before me thisday ersonally known or proved in estrument of assignment to be See other she eventor's Signature (Seal) eventor's Typed Name: Louis-	y of	satisfactory evidence to be the perad. Date Assignment Signed:	Son who acknowledged the foregoing Notary Public My commission expires:
Before me thisday personally known or proved in instrument of assignment to be See other she inventor's Signature (Seal)	y of	satisfactory evidence to be the perad. Date Assignment Signed:	Son who acknowledged the foregoing Notary Public My commission expires:
Before me thisday personally known or proved instrument of assignment to be See other she inventor's Signature (Seal) inventor's Typed Name: Louis- state of County of Before me this day	y of	satisfactory evidence to be the pered. Date Assignment Signed: Date Application Signed: personally appeared Louis-Rayles satisfactory evidence to be the pereded.	Notary Public My commission expires:
Before me thisday personally known or proved instrument of assignment to be See other she reventor's Signature (Seal) reventor's Typed Name: Louis- state of County of Before me this day personally known or proved to	y of	satisfactory evidence to be the pered. Date Assignment Signed: Date Application Sign personally appeared Louis-Rayl satisfactory evidence to be the pered.	Notary Public My commission expires: med who is

5 of 6

PATENT REEL: 017063 FRAME: 0390

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

RECORDED: 10/07/2005

PATENT APPLICATION ATTORNEY DOCKET NO. 200407414-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

see other sheet	Onto Assissant Circuit
nventor's Signature (Seal)	Date Assignment Signed:
nventor's Typed Name; Qiong Chen	Date Application Signed
-	
State of)) ss.∷
County of)
Before me this day of	personally appeared <u>Qiong Chen</u> who
ersonally known or proved to me on t estrument of assignment to be his/her fre	the basis of satisfactory evidence to be the person who acknowledged the foregoin
	Notary Public
	My commission expires:
see other sheet	Date Assignment Signed:
ventor's Signature (Seal)	
ventor's Typed Name: Muay Kheng Neo	Date Application Signed
tate of)
) ss.:
Before me this day of ersonally known or proved to me on the	personally appeared <u>Muay Kheng Neo</u> who is the basis of satisfactory evidence to be the person who acknowledged the foregoing
Before me this day of ersonally known or proved to me on the	personally appeared <u>Muay Kheng Neo</u> who is the basis of satisfactory evidence to be the person who acknowledged the foregoing
Before me this day of ersonally known or proved to me on the	personally appeared Muay Kheng Neo who in the basis of satisfactory evidence to be the person who acknowledged the foregoing a act and deed.
Before me this day of ersonally known or proved to me on the	personally appeared Muay Kheng Neo who in the basis of satisfactory evidence to be the person who acknowledged the foregoing e act and deed. Notary Public My commission expires:
Before me this day of ersonally known or proved to me on the strument of assignment to be his/her free	personally appeared Muay Kheng Neo who in the basis of satisfactory evidence to be the person who acknowledged the foregoing e act and deed. Notary Public My commission expires:
Before me this day of ersonally known or proved to me on the strument of assignment to be his/her free determined.	personally appeared Muay Kheng Neo who in the basis of satisfactory evidence to be the person who acknowledged the foregoing a act and deed. Notary Public My commission expires: Date Assignment Signed: 27 Sept. 2005
Before me this day of ersonally known or proved to me on the strument of assignment to be his/her free determined	personally appeared Muay Kheng Neo who in the basis of satisfactory evidence to be the person who acknowledged the foregoing e act and deed. Notary Public My commission expires:
Before me this day of	personally appeared
Before me this day of day of ersonally known or proved to me on the strument of assignment to be his/her free eventor's bignature (Seal) eventor's Typed Name: Louis-Raymond Romate of	personally appeared Muay Kheng Neo who in the basis of satisfactory evidence to be the person who acknowledged the foregoing exact and deed. Notary Public My commission expires: Date Assignment Signed: 27 Sept. 2005
Before me this day of	personally appeared Muay Kheng Neo who is the basis of satisfactory evidence to be the person who acknowledged the foregoing exact and deed. Notary Public My commission expires: Date Assignment Signed: 27 Supt. 2005 Date Application Signed
Before me this day of ersonally known or proved to me on the strument of assignment to be his/her free eventor's bignature (Seal) eventor's Typed Name: Louis-Raymond Romate of eventor day of Before me this day of rsonally known or proved to me on the	personally appeared Muay Kheng Neo who is the basis of satisfactory evidence to be the person who acknowledged the foregoing act and deed. Notary Public My commission expires:
Before me this day of ersonally known or proved to me on the strument of assignment to be his/her free eventor's bignature (Seal) eventor's Typed Name: Louis-Raymond Romate of day of Before me this day of rsonally known or proved to me on the	personally appeared Muay Kheng Neo who is the basis of satisfactory evidence to be the person who acknowledged the foregoing act and deed. Notary Public My commission expires:
Before me this day of ersonally known or proved to me on the strument of assignment to be his/her free eventor's bignature (Seal) eventor's Typed Name: Louis-Raymond Romate of day of Before me this day of rsonally known or proved to me on the	personally appeared Muay Kheng Neo who is ne basis of satisfactory evidence to be the person who acknowledged the foregoing a act and deed. Notary Public My commission expires: Date Assignment Signed: 27 Sypt. 2005 paratio Date Application Signed) ss.:) personally appeared Louis-Raymond Rozario who is se basis of satisfactory evidence to be the person who acknowledged the foregoing act and deed.
Before me this day of ersonally known or proved to me on the strument of assignment to be his/her free eventor's bignature (Seal) eventor's Typed Name: Louis-Raymond Rotate of day of Before me this day of rsonally known or proved to me on the	personally appeared Muay Kheng Neo who is the basis of satisfactory evidence to be the person who acknowledged the foregoing a act and deed. Notary Public My commission expires:
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ventor's signature (Seal) ventor's Typed Name: Louis-Raymond Ro ate of bunty of Before me this day of resonally known or proved to me on the strument of assignment to be his/her free	personally appeared Muay Kheng Neo who is ne basis of satisfactory evidence to be the person who acknowledged the foregoing a act and deed. Notary Public My commission expires: Date Assignment Signed: 27 Sypt. 2005 paratio Date Application Signed) ss.:) personally appeared Louis-Raymond Rozario who is se basis of satisfactory evidence to be the person who acknowledged the foregoing act and deed.

6 of 6

PATENT REEL: 017063 FRAME: 0391