FORM-2TO-1595 1-31-92	03-25-	2005	U.S. DEPARTMEN Patent and	T OF COMMERCE Trademark Office
. 3/15/1			Attorney Docket No.	200407867-1
Name of conveying party(ies):	10296	6351	ess of receiving party(ies):
Nirajan DAMERA-VENKATA	10230		CKARD DEVELOPMENT	COMPANY, L.P.
Nelson Liang An CHANG		20555 SH 24	9	_
William J. ALLEN		Houston, TX	77070	္မည္
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Additional name(s) of conveying party(ies) attach 3. Nature of Conveyance:	edYes _A_NO	Additional name(s) &	address(es) attached?	Yes <u>X</u> No
X Assignment	Merger		Change of Name	
Security Agreement	Other			
, ,				
Execution Date(s): 2/25/2005; 2/24/20		spectively.		
4. Application number(s) or patent num	per(s):			
If this document is being filed together	with a new appli	cation, execution o	ate of the application is	:
A. Patent Application No.(s)			B. Patent No.(s)	
Application No.:	Date Filed:			
Confirmation No.:	Additional number	ers attached? NO	-	
5. Name and address of party to whom concerning document should be mail		6. Total number o	f applications and pater	nts involved: 1
Records Manager	eu.	7. Total Fee (37 C	CFR 3.41): \$40.00	
Intellectual Property Administration		Enclose	. d	
HEWLETT-PACKARD COMPANY P.O. Box 272400		=100se	ed	
Fort Collins, Colorado 80527-2400		<u>X</u> Authori	zation to be charged to	deposit account.
		8. Deposit Accou	nt Number: <u>08-2025</u>	
	DO NOT USE	THIS SPACE		
9. Statement and signature.				
To the best of my knowledge and belie	f, the foregoing i	nformation is true a	and correct and any atta	ached copy is a
true copy of the original document.			•	
Jeff A. Holmen	Alla.	Hol	March 15, 2	005
Name of Person Signing	Signatur		Date	
Total num	ber of pages includ	ing cover sheet, atta	chments, and document:_	7
OMB No. 0651-0011 (exp. 4/94)				
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PATENT APPLICATION ATTORNEY DOCKET NO. 200407867-1

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 e	ntitled:		
PROJECTION OF OVE	Lapping Sub-Frames Ont	O A SURFACE		
Filing date;		Application No.:		
continuations-in-part (C Letters Patent, and any	and improvement(s) set C-I-P's), divisionals, and rene and all Letters Patent of the on or therefor; and any reiss	ewals of and substi United States and	tutes for said applica of countries foreign t	ation for said hereto which
country, to be held and the full end of the term	authorize HPDC to file app d enjoyed by HPDC, its succe n or terms for which said Le d entirely as the same wou er not been made;	essors, assigns, nor Iters Patent respect	minees or legal repres ively may be granted	sentatives, to I, reissued or
that I/we have not excovenant and agree the deliver all such papers improvement(s), said a legal representatives, respecting said inventional proceedings, to col-Ps, reissue and for everything possible to and enforce, for its or in any and all country	ovenant that I/we have full riscurted and will not execute at I/we will, each time a request at I/we will, each time a request as may be necessary or application and said Letters Pand I/we agree to communion(s) or improvement(s), said sign all lawful papers, to example applications, to make a aid HPDC, its successors, a their own benefit, proper patiles provided the expenses ance are paid by HPDC;	any agreement in a uest is made, and uest is made, and uest is made, and is atent, to HPDC, its loate to HPDC, or application and sa coute all disclaime il rightful oaths and ssigns, nominees a ent protection for sa	conflict herewith, and without undue delay, the title to said in successors, assigns, to its nominee, all id Letters Patent, to re and divisionals, coldectarations, and gand legal representation in the coldections of image and inventions or image.	I/we further execute and vention(s) or nominees or known facts testify in any continuations, enerally to do ves to obtain provement(s)
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said application now ic	ize and direct the attorneys of lentified by the attorney doc nade known to them by the l	ket number and titl	le set forth above as	scon as the
IN WITNESS WHE	REOF, I/we hereunto set my/o	• •	1 7 .	
Inventor's Signature (Seal)	Date As	eignment Signed:	rel. 25, 20	03
invested Treed Name (Cast)	njan DAMERA-VENKATA	D-4- 8111 -	Fol 25	2005
	USH CAMERA-VENKATA	Date Application S	gned; tot. 20	
State of) } ss.;			
County of)		•	
Before me this day personally known or proved instrument of assignment to it	of persons to me on the basis of satisfactor pe his/her free sot and deed.	ily sppeared <u>Mirania</u> y evidence to he the p	n.DAMERA-VENKATA Person who acknowledge	who is difference who is
			Notary Public My commission expires:	
Rev 12/04 (Asolon)	(Use Page Two Por Additional Invent	Or(s) Signatura(s))	Pag	ge 1 of 2
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PATENT

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NO. 7793 P. 3

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Fort Collins, Colorado 80527-2400

PATENT APPLICATION ATTORNEY DOCKET NO. 200407867-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

	man A. A	
inventor's Signature (Seal)	Date Assignment Signed:	
Inventor's Typed Name: Nelson I	Liang An CHANG Date Application Signed:	
State of)	
County of) 68.: \	
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Before me this day of personally known or proved to natrument of assignment to be h	me on the basis of satisfactory evidence to be the person is/her free act and deed.	An CHANG who who acknowledged the foregoing
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nventor's Signature (Seel)		
nventor's Typed Name: William J	J. ALLEN Date Application Signed:	
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tate of)	
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Laurie Hughes

When recorded please return to:

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

ATTORNEY DOCKET NO. 200407867-1

ASSIGNMENT OF PATENT APPLICATION

DEVELOPMEN Houston, Tex Company and and assigns,	he undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD IT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in cas, (hereinafter HPDC), in furtherance of my/our obligations to the Hewlett-Packard its subsidiaries and affiliates, and do hereby assign and transfer to HPDC, its successors the entire right, title and interest, including the right of priority, in, to and under an r Letters Patent of the United States entitled:
PROJECTION	OF OVERLAPPING SUB-FRAMES ONTO A SURFACE
Filing date:	Application No.:
continuations- Letters Patent	rention(s) and improvement(s) set forth therein, and any and all continuations, -in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for said , and any and all Letters Patent of the United States and of countries foreign thereto which ed thereon or therefor; and any reissues, or reexaminations, or extensions of said Letters
country, to be the full end of extended, as	ditionally authorize HPDC to file applications in my/our name for Letters Patent in any a held and enjoyed by HPDC, its successors, assigns, nominees or legal representatives, to f the term or terms for which said Letters Patent respectively may be granted, reissued or fully and entirely as the same would have been held and enjoyed by me/us had this and transfer not been made;
that I/we have covenant and deliver all suc improvement (slegal represent respecting sallegal proceeding c-I-P's, reissueverything pot and enforce, fin any and a	hereby covenant that I/we have full right to convey the entire interest herein assigned, and e not executed and will not execute any agreement in conflict herewith, and I/we further agree that I/we will, each time a request is made, and without undue delay, execute and chipapers as may be necessary or desirable to perfect the title to said invention(s) or si, said application and said Letters Patent, to HPDC, its successors, assigns, nominees or statives, and I/we agree to communicate to HPDC, or to its nominee, all known facts d invention(s) or improvement(s), said application and said Letters Patent, to testify in any ings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, e and foreign applications, to make all rightful oaths and declarations, and generally to do ssible to aid HPDC, its successors, assigns, nominees and legal representatives to obtain for its or their own benefit, proper patent protection for said invention(s) or improvement(s) all countries provided the expenses which may be incurred by me/us in lending such and assistance are paid by HPDC;
States and any patents on app any and all Le the United Sta	hereby authorize and request the Commissioner of Patents and Trademarks of the United y official of any country or countries foreign to the United States whose duty it is to issue plications as aforesaid, to issue to HPDC, as assignee of the entire right, title and interest, itters Patent for said invention(s) or improvement(s), including any and all Letters Patent of ates which may be issued and granted on or as a result of the application aforesaid, in ith the terms of this assignment.
said application	er authorize and direct the attorneys of record to insert the serial number and filing date of on now identified by the attorney docket number and title set forth above as soon as the very been made known to them by the United States Patent and Trademark Office.
IN WITNE	SS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):
	Date Assignment Signad:
Inventor's Signatu	
Inventor's Typed I	Name: Niranjan DAMERA-VENKATA Date Application Signed:
State of) } ss.:
County of	,
personally known	s day of personally appeared <u>Niranjan DAMERA-VENKATA</u> who is or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing gament to be his/her free act and deed.
	Notary Public My commission expires:
	A

Rev 12/04 (Assign)

(Use Page Two For Additional Inventor(s) Signature(s))

Page 1 of 2

PATENT REEL: 016407 FRAME: 0596 When recorded please return to: HEWLETT-PACKARD COMPANY Intellectual Property Administration
P. O. Box 272400 Fort Collins, Colorado 80527-2400

Laurie Hughes

PATENT APPLICATION ATTORNEY DOCKET NO. 200407867-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

Nessa I to francis	
	Date Assignment Signed: 221,2005
Inventor (Seal)	
Inventor's Typed Name: Nelson Llang An CHANG	Date Application Signed: 7.21,2005
State of)) ss.:	
County of)	
Before me this day of	personally appeared Nelson Llang An CHANG who is satisfactory evidence to be the person who acknowledged the foregoing leed.
	Notary Public
	My commission expires:
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muntaria Ciandura (Carl)	Date Assignment Signed:
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Inventor's Typed Name: William J. ALLEN	Date Application Signed:
State of)	
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	Notary Public
	My complision expires:
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nventor's Signature (Seal)	Date Assignment Signed:
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Note this day of	Date Assignment Signed:
State of)) ss.: County of) Before me this day of personally known or proved to me on the basis of	
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PATENT APPLICATION ATTORNEY DOCKET NO. 200407867-1

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ASSIGNMENT OF PATENT APPLICATION

DEVELOPMENT COMPA Houston, Texas, (herei Company and its subside and assigns, the entire	NY, LP., à Texas Limited I nafter HPDC), in furtheren laries and affiliates, and do	nd hereby agree to assign to HEWLETT-PACKARD Partnership having its principal place of business in nee of my/our obligations to the Hewlett-Packard hereby assign and transfer to HPDC, its successors neluding the right of priority, in, to and under an attitled:
PROJECTION OF OVERL	APPING SUB-FRAMES ONTO	O A SURFACE
		
Filing date:		Application No.:
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country, to be held and the full end of the term	enjoyed by HPDC, its succe or terms for which said Lett entirely as the same would	lications in my/our name for Letters Patent in any ssors, assigns, nominees or legal representatives, to ters Patent respectively may be granted, reissued or d have been held and enjoyed by me/us had this
that I/we have not exec covenant and agree that deliver all such papers improvement(s), said ap- legal representatives, ar respecting said invention legal proceedings, to sin C-I-P's, reissue and forel everything possible to ai- everything possible to ai-	uted and will not execute a l/we will, each time a request may be necessary or do solication and said Letters Parand I/we agree to communical (a) or improvement(s), said ign all lawful papers, to exemple applications, to make all did HPDC, its successors, as elir own benefit, proper paters provided the expenses we	that to convey the entire interest herein assigned, and any agreement in conflict herewith, and I/we further lest is made, and without undue delay, execute and lesirable to perfect the title to said invention(s) or tent, to HPDC, its successors, assigns, nominees or cate to HPDC, or to its nominee, all known facts application and said Letters Patent, to testify in any scute all disclaimers and divisionals, continuations, rightful oaths and declarations, and generally to do signs, nominees and legal representatives to obtain int protection for said invention(s) or improvement(s) which may be incurred by me/us in lending such
States and any official of patents on applications a any and all Letters Paten	fany country or countries for as aforesaid, to issue to HPC t for said invention(s) or imp may be issued and grante	nmissioner of Patents and Trademarks of the United oreign to the United States whose duty it is to issue DC, as assignee of the entire right, title and interest, provement(s), including any and all Letters Patent of d on or as a result of the application aforesald, in
said application now ide	ntified by the attorney dock	record to insert the serial number and filing date of set number and title set forth above as soon as the nited States Patent and Trademark Office.
IN WITNESS WHERE	OF, I/we hereunto set my/ou	ur hand(s) and seal(s):
	Date Ass	ignment Signed:
nventor's Signature (Seal)		
nventor's Typed Name: Nicenja	n DAMFRA-VENKATA	Date Application Signed:
State of)	
County of) ss.: }	•
Before me this day of personally known or proved to		y appeared <u>Niranian DAMERA-VENKATA</u> who is violence to be the person who acknowledged the foregoing
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(Use Page Two For Additional Inventor(s) Signature(s))

Page 1 of 2

PATENT

REEL: 016407 FRAME: 0598

Anna Armstrong

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PATENT APPLICATION ATTORNEY DOCKET NO. 200407867-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

	Date Assignment Signed:	
Inventor's Signature (Seal)		
nventor's Typed Name: Nelson	Liang An CHANG Date Application Sign	ed:
State of)	
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Before me this day or	f, personally appearedNelson Libr	g An CHANG who
personally known or proved to instrument of assignment to be b	me on the bests of satisfactory evidence to be the pers his/her free act and deed.	on who acknowledged the foregoin
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William (Section 1994)	Date Assignment Signed: 2 A	1ARQ5
nventor's Typed Name: William	J. ALLEN Date Application Signs	2MAR 05
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PATENT REEL: 016407 FRAME: 0599