. 4-6-05 FORM PTO-1595	04-18-20		US DEPAR	TMENT OF COMMERC
1-31-92				nt and Trademark Offi
	1029831	67	Attorney Docke	et No. 200315725-1
1. Name of conveying party(ies):		2. Name ar	nd address of receiving	party(ies):
Alexander Govyadinov		HEWLET	TT-PACKARD DEVELOP	MENT COMPANY, L.P
Curt Van Lydegraf		20555 S	SH 249 n, TX 77070	7 7 ∑
David Schut		nouston	1, 1% 77070	S. F. 904
		}		2 C 0 €
				1326
				-
Additional name(s) of conveying party(ies) at	tached Yes X No	Additional nar	ne(s) & address(es) attached	Yes _X No
3. Nature of Conveyance:				
X Assignment	Merger		Change of Na	me
Security Agreement	Other			
Execution Date(s): 04/04/05; 04/04				
4. Application number(s) or patent n				
If this document is being filed toget	her with a new appli	cation, execu	ition date of the applica	tion is: 04/04/05
A. Patent Application No.(s)			B. Patent I	No.(s)
Application No.:	Date Filed:			
Confirmation No.:	Additional numbe	ers attached?	NO	
5. Name and address of party to wh		6. Total num	nber of applications and	patents involved: 1
concerning document should be i	mailed:	7 Total Fee	(37 CFR 3.41): \$	40.00
Records Manager Intellectual Property Administration	on	}		40.00
HEWLETT-PACKARD COMPANY P.O. Box 272400		E	nclosed	
Fort Collins, Colorado 80527-24	100	_X A	uthorization to be charg	ged to deposit accoun
		8. Deposit	Account Number: 08-	2025
	DO NOT USE	THIS SPACE	<u> </u>	
O Statement and signature			 	
 Statement and signature. To the best of my knowledge and b 	pelief the foregoing i	nformation is	true and correct and a	ny etteched conv is e
true copy of the original document.	rener, the foregoing is	mormation is	true and correct and a	ry attached copy is a
Ketan S. Vakil, Esq.	Vot.	Valid	Apr O	3, 2005
Name of Person Signing	Signature	van	Da	
Total	number of pages includ	ling cover shee	et, attachments, and docu	ment:7
OMB No. 0651-0011 (exp. 4/94)				
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Mail document to be recorded with requ /15/2005 DBYRNE	\		Services	
	Director of the US Pa			
FC:8021 40.00 DA	1	Box 1450		

PATENT REEL: 016455 FRAME: 0792 Fort Collins, Colorado 80527-2400

PATENT APPLICATION

ATTORNEY DOCKET NO. 200315725-1

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:

2121EM WAD MELLIC	DD FOR WRITING DATA USING AN ELECTRON BEAM
Filing date:	Application No.:
continuations-in-part	s) and improvement(s) set forth therein, and any and all continuations, (C-I-P's), divisionals, and renewals of and substitutes for said application for said by and all Letters Patent of the United States and of countries foreign thereto which con or therefor; and any reissues, or reexaminations, or extensions of said Letters
country, to be held at	y authorize HPDC to file applications in my/our name for Letters Patent in any nd enjoyed by HPDC, its successors, assigns, nominees or legal representatives, to moor terms for which said Letters Patent respectively may be granted, reissued or and entirely as the same would have been held and enjoyed by me/us had this after not been made;
that I/we have not encoverant and agree to deliver all such pape improvement(s), said legal representatives, respecting said invertigal proceedings, to C-I-P's, reissue and feverything possible to and enforce, for its own any and all course.	covenant that I/we have full right to convey the entire interest herein assigned, and secuted and will not execute any agreement in conflict herewith, and I/we further that I/we will, each time a request is made, and without undue delay, execute and its as may be necessary or desirable to perfect the title to said invention(s) or application and said Letters Patent, to HPDC, its successors, assigns, nominees or and I/we agree to communicate to HPDC, or to its nominee, all known facts tion(s) or improvement(s), said application and said Letters Patent, to testify in any sign all lawful papers, to execute all disclaimers and divisionals, continuations, or aid HPDC, its successors, assigns, nominees and legal representatives to obtain their own benefit, proper patent protection for said invention(s) or improvement(s) tries provided the expenses which may be incurred by me/us in lending such tance are paid by HPDC;
States and any official patents on application any and all Letters Pathe United States with the United States with	authorize and request the Commissioner of Patents and Trademarks of the United I of any country or countries foreign to the United States whose duty it is to issue as a sforesaid, to issue to HPDC, as assignee of the entire right, title and interest, tent for said invention(s) or improvement(s), including any and all Letters Patent of ich may be issued and granted on or as a result of the application aforesaid, interms of this assignment.
said application now	rize and direct the attorneys of record to insert the serial number and filing date of identified by the attorney docket number and title set forth above as soon as the made known to them by the United States Patent and Trademark Office.
IN WITNESS WHI	REOF, I/we hereunto set my/our hand(s) and seal(s):
AGOVANTI Inventor's Signature (Seal)	Date Assignment Signed: 04-04-2005
Inventor's Typed Name: AL	EXAMDER GOVYADINOV Dete Application Signed: 09-09-2005
State of	
County of) ss.:)
Before me this depersonally known or prove	of, personally appeared <u>ALEXANDER GOVYADINOV</u> who is to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing be his/her free act and deed.
	Notary Public

PATENT

REEL: 016455 FRAME: 0793

When recorded please return to:
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Intellectual Property Administration
P. O. Box 272400
Fort Collins, Colorado 80527-2400

PATENT APPLICATION
ATTORNEY DOCKET NO. 200315725-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

		Date Assignment Signed:
nventor's Signature (Seal)		
Inventor's Typed Name: CURT	VAN LYDEGRAF	Date Application Signed:
State of)	
State of) ss.:	
County of)	
Before me this day of	of,	personally appearedCURT VAN LYDEGRAFv
personally known or proved to instrument of assignment to be	o me on the basis of sa	tisfactory evidence to be the person who acknowledged the fore
		Notary Public
		My commission expires:
		Date Assignment Signed:
Inventor's Signature (Seal)		Sate Assignment digned.
Inventor's Typed Name: DAVID	SCHUT	Date Application Signed:
State of)	
County of) ss.:	
·	·	
		personally appeared <u>DAVID SCHUT</u> with the person who acknowledged the fore
nstrument of assignment to be		islactory evidence to be the person who acknowledged the fore
		Notary Public
		My commission expires:
	[Date Assignment Signed:
nventor's Signature (Seal)		
nventor's Typed Name:		Date Application Signed:
State of)	
) ss.:	
County of)	
		personally appeared w
ersonally known or proved to nstrument of assignment to be !		isfactory evidence to be the person who acknowledged the fore
		Notary Public

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

Page 2 of 2

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. 200315725-1

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:

application for Letters Patent of the United States entitled: SYSTEM AND METHOD FOR WRITING DATA USING AN ELECTRON BEAM	
Filing date:	Application No.:
continuations-in-part (C-I-P's), di Letters Patent, and any and all Le	provement(s) set forth therein, and any and all continuations, visionals, and renewals of and substitutes for said application for said tters Patent of the United States and of countries foreign thereto which or; and any reissues, or reexaminations, or extensions of said Letters
country, to be held and enjoyed the full end of the term or terms	HPDC to file applications in my/our name for Letters Patent in any by HPDC, its successors, assigns, nominees or legal representatives, to for which said Letters Patent respectively may be granted, reissued or as the same would have been held and enjoyed by me/us had this made;
that I/we have not executed and covenant and agree that I/we wideliver all such papers as may improvement(s), said application legal representatives, and I/we respecting said invention(s) or imagal proceedings, to sign all late-P's, reissue and foreign appliceverything possible to aid HPDC and enforce, for its or their own	at I/we have full right to convey the entire interest herein assigned, and will not execute any agreement in conflict herewith, and I/we further II, each time a request is made, and without undue delay, execute and be necessary or desirable to perfect the title to said invention(s) or and said Letters Patent, to HPDC, its successors, assigns, nominees or agree to communicate to HPDC, or to its nominee, all known facts provement(s), said application and said Letters Patent, to testify in any wful papers, to execute all disclaimers and divisionals, continuations, actions, to make all rightful oaths and declarations, and generally to do its successors, assigns, nominees and legal representatives to obtain benefit, proper patent protection for said invention(s) or improvement(s) and the expenses which may be incurred by me/us in lending such aid by HPDC;
States and any official of any co- patents on applications as afores any and all Letters Patent for said	nd request the Commissioner of Patents and Trademarks of the United untry or countries foreign to the United States whose duty it is to issue aid, to issue to HPDC, as assignee of the entire right, title and interest, i invention(s) or improvement(s), including any and all Latters Patent of issued and granted on or as a result of the application aforesaid, in assignment.
said application now identified b	ect the attorneys of record to insert the serial number and filing date of y the attorney docket number and title set forth above as soon as the in to them by the United States Patent and Trademark Office.
IN WITNESS WHEREOF, I/we	hereunto set my/our hand(s) and seal(s):
	Date Assignment Signed:
Inventor's Signature (Seal)	
Inventor's Typed Name: ALEXANDER GO	/YADINOV Date Application Signed:
State of)
County of) ss.: }
Before me this day_ of	, personally appaaredALEXANDER GOVYADINOV who is the basis of satisfactory evidence to be the person who acknowledged the foregoing a act and deed.
	hintary Dublic

My commission expires:

PATENT REEL: 016455 FRAME: 0795 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. 200315725-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

N WITNESS WHEREOF I/we hereunto	set my/our hand(s) and seei(s):
Curl St	Ala lic
oventor's Signature (Seal)	Date Assignment Signed: 414105
rventor's Typed Name: CURT VAN LYDEGRAF	Date Application Signed: 4/4/05
State of	
) 60	3. :
County of)	
Before me this day of	, personally appeared <u>CURT VAN LYDEGRAF</u> who is
personally known or proved to me on the basi instrument of assignment to be his/her free act ar	is of satisfactory evidence to be the person who acknowledged the foregoing
	Notaty Public
	My commission expires:
nventor's Signature (Seal)	Date Assignment Signed:
	Date Application Claused
nventor's Typed Name: DAVID SCHUT	Date Application Signed:
State of)	
lounty of)	;; ·
	personally appeared <u>DAVID SCHUT</u> who is of satisfactory evidence to be the person who acknowledged the foregoing and deed.
	Notary Public
	My commission expires:
nventor's Signature (Seal)	Date Assignment Signed:
। एका एक के ज्ञान है। का देवन हैं।	
nventor's Typed Name:	Date Application Signed:
itate of)	·
county of)	
Before me this day of	s of satisfactory evidence to be the person who acknowledged the foregoing
	Notary Public My commission expires:
•	(A) Harrier and Alexander

It has Pane Three For Additional Inventorial Signaturalati

Page 2 of 2

When recorded please return to:

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

PATENT APPLICATION

ATTORNEY DOCKET NO. 200315725-1

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 Pertnership having its principal place of Houston, Texas, (hereinafter HPDC), in furtherence of my/our obligations to the Hewlett-Packard

Company and its subsidiaries and affiliates, and a and assigns, the entire right, title and interest, application for Letters Patent of the United States	do hereby assign and transfer to HPDC, its successors, including the right of priority, in, to and under an entitled:
SYSTEM AND METHOD FOR WRITING DATA USI	NG AN ELECTRON BEAM
Filing date:	Application No.:
continuations-in-part (C-I-P's), divisionals, and re Letters Patent, and any and all Letters Patent of t	et forth therein, and any and all continuations, enewals of and substitutes for said application for said the United States and of countries foreign thereto which asues, or reexaminations, or extensions of said Letters
country, to be held and enjoyed by HPDC, its suthe full end of the term or terms for which said	applications in my/our name for Letters Patent in any occessors, assigns, nominees or legal representatives, to Letters Patent respectively may be granted, reissued or would have been held and enjoyed by me/us had this
that I/we have not executed and will not execute covenant and agree that I/we will, each time a redeliver all such papers as may be necessary of improvement(s), said application and said Letters legal representatives, and I/we agree to commenspecting said invention(s) or improvement(s), segal proceedings, to sign all lawful papers, to C-I-P's, reissue and foreign applications, to make everything possible to sid HPDC, its successors and enforce, for its or their own benefit, proper page 1.	I right to convey the entire interest herein assigned, and te any agreement in conflict herewith, and I/we further equest is made, and without undue delay, execute and or desirable to perfect the title to said invention(s) or exact, to HPDC, its successors, assigns, nominees or fundate to HPDC, or to its nominee, all known facts aid application and said Letters Patent, to testify in any execute all disclaimers and divisionals, continuations, all rightful oaths and declarations, and generally to do, assigns, nominees and legal representatives to obtain patent protection for said invention(s) or improvement(s) as which may be incurred by me/us in lending such
States and any official of any country or countrie patents on applications as aforesaid, to issue to any and all Letters Patent for said invention(s) or	Commissioner of Patents and Trademarks of the United as foreign to the United States whose duty it is to issue HPDC, as assignee of the entire right, title and interest, rimprovement(s), including any and all Letters Patent of anted on or as a result of the application aforesaid, in
	s of record to insert the serial number and filing date of docket number and title set forth above as soon as the united States Patent and Trademark Office.
IN WITNESS WHEREOF, I/we hereunto set m	ny/our hand(s) and seal(s):
Date Standard (Scall)	e Assignment Signad:
Inventor's Signature (Seal)	Day Application Classes
	Date Application Signed:
State of) ss.:	
County of	
Before me this day of, per- personally known or proved to me on the basis of satisfi- instrument of satignment to be his/her free act and deed.	sonally appeared <u>ALEXANDER GOVYADINOV</u> who is actory evidence to be the person who acknowledged the foregoing
	Morany Public

PATENT REEL: 016455 FRAME: 0797

My commission expires:

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

RECORDED: 04/06/2005

PATENT APPLICATION
ATTORNEY DOCKET NO. __200315725-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

		Date Assignment Signad:
inventor's Signature (Seal)		
Inventor's Typed Name: CURT VA	N LYDEGRAF	Date Application Signed:
	,	
State of) #8.:	
County of)	
•		•
Before me this day of personally known or proved to a instrument of assignment to be his	ne on the basis of	personally appeared <u>CURT VAN LYDEGRAF</u> who satisfactory evidence to be the person who acknowledged the foregoind.
		Notery Public
		My commission expires:
0		
Ma Del		Date Assignment Signed: 3:30 -2005
Inventor's Signature (Seal)		
Inventor's Typed Name: DAVID \$	CUNT	Date Aprillants March 7 20 20 20
inventor's Typed Name: DATE S		Date Application Signed: 3-80-2005
State of	}	
County of	,) 45.:	•
County of	,	
Before me this day of		, personally appeared
personally known or proved to i	ne on the basis of	satisfactory evidence to be the person who acknowledged the foregoin
instrument of essignment to be his	S/Der Tree act and de	d.
		Notary Public My commission aspires:
		And a material statement of the statemen
Inventor's Signature (Seal)		_Date Assignment Signad:
Inventor's Typed Name:		Date Application Signed:
State of)	
_) ss.:	
County of	•	
	ne on the basis of Mar free act and dec	satisfactory evidence to be the person who acknowledged the foregoin
		Notary Public
		My commission expires;

PATENT REEL: 016455 FRAME: 0798