1. Name CHOON-S	DEC 1 2 2003 ST PELLEGRINO ATRAJAN	I (SEIE) HEW FRIE HELE CHAP	Q363e ano ao	
	e(s) of conveying party(ies) attache Conveyance:	edYes _X_No	Additional name(s) 8	& address(es) attached?Yes _X_ No
	Assignment	Merger		Change of Name
	Security Agreement	Other		595 5. 1101110
	occurry Agreement	Otilei		
Execution Da	ate(s): 05/16/2003 and 05/	19/2003		
4. Applicatio	n number(s) or patent numb	oer(s):		
If this docur	ment is being filed together	with a new appli	cation, execution	date of the application is:
A. Patent A <sub>l</sub>	pplication No.(s)			B. Patent No.(s)
Application N	No.: 10/376,957	Date Filed: 02	/27/2003	
Confirmation			ers attached? NO	<u>)                                    </u>
			6. Total number	of applications and patents involved: 1
concernin Records N	g document should be maile	ed:	7. Total Fee (37	CFR 3.41): \$40.00
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HEWLETT P.O. Box	-PACKARD COMPANY 272400		Enclos	
	ns, Colorado 80527-2400	1	<u>X</u> Author	rization to be charged to deposit account.
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	and signature.	f the foressing i	nformation in two	and correct and any attached copy is a
	the original document.	r, the foregoing h	normation is true	and correct and any attached copy is a
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Dan C. Hi	J. 40.025		////	Dec 09, 2003
	erson Signing	Signature		Date
	Total num	ber of pages includ	ing cover sheet, att	achments, and document:3
OMB No. 065	51-0011 (exp. 4/94)			
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## PATENT APPLICATION

ATTORNEY DOCKET NO. 200300358-1

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:

RESTORING DATA FR	OM POINT-IN-TIME REPRE	SENTATIONS OF THE	DATA
Filing date: February	27, 2003	Application No.:	10/376,957
continuations-in-part ( Letters Patent, and an	C-I-P's), divisionals, and n y and all Letters Patent of	enewals of and subst the United States and	and any and all continuations, itutes for said application for said of countries foreign thereto which tions, or extensions of said Letters
country, to be held an the full end of the ten	d enjoyed by HPDC, its sum or terms for which said dentirely as the same w	ccessors, assigns, no Letters Patent respec	r name for Letters Patent in any minees or legal representatives, to tively may be granted, reissued or I and enjoyed by me/us had this
that I/we have not ex- covenant and agree the deliver all such paper improvement(s), said a legal representatives, respecting said inventi- legal proceedings, to C-I-P's, reissue and for everything possible to and enforce, for its or in any and all counti	ecuted and will not executed and will, each time a last live will, each time a last live and letters and live agree to common(s) or improvement(s), sign all lawful papers, to reign applications, to make ald HPDC, its successors their own benefit, proper if	te any agreement in crequest is made, and or request is made, and or so patent, to HPDC, its functed to HPDC, or said application and so execute all disclaims all rightful oaths and, assigns, nominees apatent protection for so	entire interest herein assigned, and conflict herewith, and I/we further without undue delay, execute and it the title to said invention(s) or successors, assigns, nominees or to its nominee, all known facts aid Letters Patent, to testify in any are and divisionals, continuations, 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 patents on applications any and all Letters Pat the United States whi	of any country or countries as aforesaid, to issue to tent for said invention(s) or	es foreign to the Unite HPDC, as assignee of improvement(s), incl	ents and Trademarks of the United ad States whose duty it is to issue if the entire right, title and interest, uding any and all Letters Patent of ult of the application aforesaid, in
said application now in	rize and direct the attorney dentified by the attorney of made known to them by the	docket number and til	the serial number and filing date of the set forth above as soon as the trand Trademark Office.
- Stark	REOF, I/we hereunto set m	ny/our hand(s) and sea a Assignment Signed:	al(s):
Inventor's Sipilature (Seal)			Signed: 5//6/03
Inventor's Typed Name: Cho	on-Seng Tan	Date Application	Signed:
State of	) ) ss.:		
County of	)		
personally known or proved	of pers to me on the basis of satisfa be his/her free act and deed.	ionally appeared <u>Choor</u> ctory evidence to be the	e-Sano Tan who is person who acknowledged the foregoing
			Notary Public My commission espires:
			THE WATER TRANSPORT STREET
Rev 05/03 (Assign)	(Use Page Two For Additional In	ventor(s) Signature(s))	Page 1 of 2

**PATENT** 

REEL: 014804 FRAME: 0503

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Fort Collins, Colorado 80527-2400

PATENT	APPLICATION
ATTORNEY DOCKET NO.	200300358-1

## ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I've I	nereunto set my/our hand(s) and sea	i(s):
6. 51 Alles	Date Assignment Signed:	5/19/03
Inventor's Signature (Seal)		-11
Inventor's Typed Name: Greg J. Peller	grino Date Applica	ation Signed: 5 /19/03
State of	)	
County of	) <b>ss</b> .: )	
Before me this day of personally known or proved to me of instrument of assignment to be his/her		who is the person who acknowledged the foregoing
		Notary Public
		My commission expires:
Balay htajan	Date Assignment Signed:	05/16/03
Inventor's Signature (Seel)		
Inventor's Typed Name: Blain Hatrajar	n Dete Applica	ation Signed: <u>5/16/03</u>
State of	) ) ss.:	
County of	)	
Before me this day of personally known or proved to me of instrument of assignment to be his/her	on the basis of satisfactory evidence to be	his Matrajan who acknowledged the foregoing
		Notary Public My commission expires:
my louth	Date Assignment Signed:	5/16/03
Inventor's Signature (Seel)	_	E / 11 / 22
inventor's Typed Name: Brian J. Coreli	Date Applica	tion Signed: <u>5/16/03</u>
State of County of	) } es.: }	
Before me this day of personally known or proved to me of instrument of assignment to be his/her	on the basis of setisfactory evidence to be	the person who acknowledged the foregoing
		Notary Public My commission expires:
(Use 1	Page Three For Additional Inventor(s) Signature(s))	Page 2 of 2

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## PATENT APPLICATION ATTORNEY DOCKET NO. 200300358-1

**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:

and assigns,	d its sùbsidiaries and affiliates, and d the entire right, title and interest, or Letters Patent of the United States	to hereby assign and transfer to HPDC, its successors including the right of priority, in, to and under an entitled:
RESTORING	DATA FROM POINT-IN-TIME REPRES	ENTATIONS OF THE DATA
Filing date:	February 27, 2003	Application No.: 10/376,957
continuations Letters Patent	⊱in-part (C-I-P's), divisionals, and rer t. and anv and all Letters Patent of th	t forth therein, and any and all continuations, newals of and substitutes for said application for said ne United States and of countries foreign thereto which sues, or reexaminations, or extensions of said Letters
the full end of extended, as	e held and enjoyed by HPDC, its suc of the term or terms for which said L	oplications in my/our name for Letters Patent in any cessors, assigns, nominees or legal representatives, to etters Patent respectively may be granted, reissued or ould have been held and enjoyed by me/us had this
that I/we have covenant and deliver all su improvement legal represerespecting sa legal proceed C-I-P's, reissueverything pound enforce, in any and a	re not executed and will not execute agree that I/we will, each time a rech papers as may be necessary or (s), said application and said Letters intatives, and I/we agree to commulate invention(s) or improvement(s), said invention(s) or improvement(s), all lawful papers, to ue and foreign applications, to make assible to aid HPDC, its successors, for its or their own benefit, proper pages.	right to convey the entire interest herein assigned, and any agreement in conflict herewith, and I/we further equest is made, and without undue delay, execute and desirable to perfect the title to said invention(s) or Patent, to HPDC, its successors, assigns, nominees or inicate to HPDC, or to its nominee, all known facts id 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 atent protection for said invention(s) or improvement(s) is which may be incurred by me/us in lending such
States and ar patents on ap any and all Le the United St	ny official of any country or countries oplications as aforesaid, to issue to hetters Patent for said invention(s) or i	commissioner of Patents and Trademarks of the United is foreign to the United States whose duty it is to issue IPDC, as assignee of the entire right, title and interest, improvement(s), including any and all Letters Patent of inted on or as a result of the application aforesaid, in
said application	on now identified by the attorney do	of record to insert the serial number and filing date of ocket number and title set forth above as soon as the United States Patent and Trademark Office.
IN WITH	Date (Seal)	/our hand(s) and seal(s):  Assignment Signed: 5//6/03  Date Application Signed: 5//6/03
inventor's Typed	Name: Choon-Seng Tan	Date Application Signed: 5/16/03
State of	)	
County of	) <b>ss.</b> : )	
personally known	is day of, person or proved to me on the basis of satisfact ignment to be his/her free act and deed.	nally appeared <u>Choon-Seng Tan</u> who is early evidence to be the person who acknowledged the foregoing
		Notary Public
		My commission expines:

Rev 05/03 (Assign)

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

Page 1 of 2

PATENT

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ATTORNEY DOCKET NO.	200300358-1

## ASSIGNMENT OF PATENT APPLICATION (cont.)

N WITNESS WHEDEOR, I/we hereunto se	et my/our hand(s) and seal(s):
0 1 M	Date Assignment Signed: 5/19/03
eventor's Signature (Seal)	Date Assignment Signed:
nventor's Typed Name: Greg J. Pettegrino	Date Application Signed: 5/4/03
tate of	
) ss.: county of	
•	personally appeared Gree J. Pallegring Who is
ersonally known or proved to me on the basis instrument of assignment to be his/her free act and	of satisfactory evidence to be the person who acknowledged the foregoing
	Notary Public
	My commission expires:
Balaj htajan	Date Assignment Signed: 05/16/63
nventor's Signature (Seal)	
nventor's Typed Name: Balaji Natrajan	Date Application Signed: 5/16/03
state of	
county of ) as.:	
	personally appeared <u>Belaii Natraian</u> who is of satisfactory evidence to be the person who acknowledged the foregoing deed.
	Notary Public
	My commission expires:
Br J Could	Date Assignment Signed: 5/16/03
ventor's Typed Name: Brian J. Corell	Date Application Signed: 5/16/03
tate of	
ounty of ) ss.:	
Before me this day of ersonally known or proved to me on the basis strument of assignment to be his/her free act and	of satisfactory evidence to be the person who acknowledged the foregoing
	Notary Public My commission expires:
(Use Page Three For	Additional Inventor(s) Signature(s))  Page 2 of 2

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**RECORDED: 12/12/2003** 

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