FORM PTO-1595		•	II S DEDADTMEN	T OF COMMERCE
	RDATION FORM	// COVER SHEET		d Trademark Office
1235.	PATENTS C		Attorney Docket No.	100200440-1
1. Name of conveying party(ies):		2. Name and add	ress of receiving party	(ies):
MING C. HAO		HEWLETT-PAC	CKARD DEVELOPMEN	COMPANY, L.P.
PANKAJ GARG		20555 SH 249	9	· ++,
UMESHWAR DAYAL	ļ	Houston, TX	77070	
VIJAY MACHIRAJU				
DANIEL COTTING				
Additional name(s) of conveying party(ies) attached _	Yes X No	Additional name(s) &	address(es) attached?	_Yes <u>X</u> No
Nature of Conveyance:			.,	
X Assignment	Merger		Change of Name	
Security Agreement	Other			
		a. nawziana, 65	102/2002	
Execution Date(s): 02/28/2003; 03/14/200	•	3; 03/1//2003, 03		
 Application number(s) or patent number 				
If this document is being filed together wi	th a new appli	cation, execution o	late of the application	\$:
A. Patent Application No.(s)		B. Patent No.(s).		
Application No.: 10/392,646	Date Filed: 03	3/20/2003		
Confirmation No.: 7217 Ac	fditional numb	ers attached? NO	_	
5. Name and address of party to whom co		6. Total number of	of applications and pate	ents involved; 1
concerning document should be mailed: Records Manager Intellectual Property Administration		7. Total Fee (37 CFR 3.41); \$40.00		
HEWLETT-PACKARD COMPANY		Enclosed		
P.O. Box 272400 Fort Collins, Colorado 80527-2400		X Authorization to be charged to deposit account.		
		8. Deposit Account Number: 08-2025		<u> </u>
	DO NOT US	E THIS SPACE		
9. Statement and signature.		NAV	,,,,	
To the best of my knowledge and belief,	the foregoing .	information is true	and correct and any at	tached copy is a
true copy of the original document.	0 0		·	
		, 1		
BE HENRY	£ 1	Hours	Oct 10, 26	103
Name of Person Signing	Signature	- work wy	Date	
·Total numbe	r of pages inclu	ding cover sheet, att	achments, and document	:8
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HEWLETT-PACKARD COMPANY Intellectual Property Administrator P. O. Box 272400 Fort Collins, Colorado 80527-2400 PATENT APPLICATION

ATTORNEY DOCKET NO. 100200440-1

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:
SYSTEM FOR VISUALIZING MASSIVE WEB TRANSACTION DATA SETS WITHOUT OVERLAPPING
Filing date: March 20, 2003 Application No.: 10/392,646
and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for said Letters Patent, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor; and any reissues, or reexaminations, or extensions of said Letters Patent.
I/we additionally authorize HPDC to file applications in my/our name for Letters Patent in any country, to be held and enjoyed by HPDC, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, and transfer not been made;
AND I/we hereby covenant that I/we have full right to convey the entire interest herein assigned, and that I/we have not executed and will not execute any agreement in conflict herewith, and I/we further covenant and agree that I/we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Letters Patent, to HPDC, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to HPDC, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid HPDC, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by HPDC;
AND I/we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to HPDC, as assignee of the entire right, title and interest, any and all Letters Patent for said invention(s) or improvement(s), including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.
I/we further authorize and direct the attorneys of record to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.
IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):
pventor's Streeture (Seet)
Inventor's Typed Name: Ming C. Hao Date Application Signed: 2/z.8 / o 3
State of)
) ss.: County of
Before me thisday of, personally appearedMing C. Hao 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:

Rov 02/03 (Assign)

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

Page 1 of 5

PATENT 3
REEL: 014045 FRAME: 0117

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

ATTORNEY DOCKET NO. __100200440-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WH	EREOF, I/we hereunto se	et my/our hand(s) and seal(s):	:
(L. L.	L (_e	Date Assignment Signed;	63/14/03
Inventor's Signature	(Seaf)	Out a Model in the Marie Visit in the Marie V	-
Inventor's Typed Nar	mo; Pankag Garg	Date Application	Signed: <u>(3)</u> 19 / 43
	 }		•
State of	,) ss.	<u>:</u>	
County of)		r-
Before me this _	day of	, personally appeared Pank	ed Garo who is
	r proved to me on the basis ment to be his/her free act and		person who acknowledged the foregoing
•			
			Notary Public
			My commission expires:
	3 = -	Date Assignment Signed:	
Inventor's Signature	•		
Inventor's Typed Nar	me: <u>Umeshwar Dayai</u>	Date Application	Signed:
State of)		
County of) 55.)	:	
personally known or	proved to me on the basis ment to be his/her free act and		shwar Daval who is person who acknowledged the foregoing
			Notary Public
			My commission expires:
		Date Assignment Signed:	•
nventor's Signature	(Seal)		
nventor's Typed Nar	ne; Vljay Machiraju	Date Application	Signed:
State of	1		
County of) ±s.;)	:	
	•		
sersonally known or	day of		Machiraju who is person who acknowledged the foregoing
			Notary Public
			My commission expires:
	(Use Page Three Fo	r Additional Inventor(s) Signature(s))	Page 2 of 3

HEWLETT-PACKARD COMPANY Intellectual Property Administration P. O. Box 272400 Fort Collins, Coloredo 80527-2400 PATENT APPLICATION
ATTORNEY DOCKET NO. 100200440-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

	Date Assignment Signed:
Inventor's Signature (Seal)	
Inventor's Typed Name: Pankag Garg	Date Application Signed:
State of)
County of) ss.:)
Before me this day of personally known or proved to me on th instrument of assignment to be his/her free	, personally appeared <u>Pankag Garg</u> who i e basis of satisfactory evidence to be the person who acknowledged the foregoing act and deed.
	Natary Public My commission expines:
Inventor's Signature (Seal)	
Inventor's Typed Name: Umeshwar Dayal	Date Application Signed: 28 belowany 2003
State of)
County of) ss.: }
Before me this day of personally known or proved to me on the instrument of assignment to be his/her free	personally appeared <u>Umeshwar Dayal</u> who is a basis of satisfactory evidence to be the person who acknowledged the foregoing act and deed.
	Notary Public
	My commission expires:
Inventor's Signature (Seal)	Date Assignment Signed:
Inventor's Typed Name: Vijay Machiraju	Date Application Signed:
State of)) ss.:
County of) · · · · · · · · · · · · · · · · · · ·
	, personally appeared <u>Vilay Machiralu</u> who is basis of satisfactory evidence to be the person who acknowledged the foregoing act and deed.
•	
	Notary Public

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

Page 2 of 3

Page 3 of 5

PATENT REEL: 014045 FRAME: 0119

HEWLETT-PACKARD COMPANY Intellectual Property Administration P. O. Box 272400 Fort Collins, Colorado 80527-2400 PATENT APPLICATION
ATTORNEY DOCKET NO. 100200440-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I/we her	eunto set	my/our hand(s) and seal(s):
		Date Assignment Signed:
Inventor's Signature (Seal)		
Inventor's Typed Name: Pankag Garg		Date Application Signed:
State of)	
County of) 55.;	
•	,	
Before me this day of personally known or proved to me on instrument of assignment to be his/her fre	the basis o	, personally appeared <u>Pankag Garg</u> who is if satisfactory evidence to be the person who acknowledged the foregoing leed.
		Notary Public My commission expires:
		Date Assignment Signed:
Inventor's Signature (Seal)		Date Assignment algred
Inventor's Typed Name: Umeshwar Daya		Date Application Signed:
State of)	
Courty of) ss	
County of	,	
Before me this day of personally known or proved to me on instrument of assignment to be his/her fre	he basis o	, personally appeared <u>Umeshwar Dayal</u> who is f satisfactory evidence to be the person who acknowledged the foregoing eed.
		Notary Public
		My commission expires:
M-V19-1		Date Assignment Signed: 03/11/2003
Inventor's Signature (Seal)		
Inventor's Typed Name: Vijay Machiraju		Date Assignment Signed: 03/17/2003 Date Application Signed: 03/17/2003
State of)	
County of) ss.:)	
Before me this day of personally known or proved to me on t instrument of assignment to be his/her fre	he basis ol	, personally appearedwho is figure satisfactory evidence to be the person who acknowledged the foregoing sed.
		Notary Public
		My commission expires:

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

Page 2 of 3

Page 4 of 5

PATENT REEL: 014045 FRAME: 0120

HEWLETT-PACKARD COMPANY Intellectual Property Administration P. O. Box 272400 Fort Collins, Colorado 80527-2400 PATENT APPLICATION ATTORNEY DOCKET NO. 100200440-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS	WHEREOF,	I we hereunto	set my/our	hand(s) a	and s	eal(s):

D. Collins		Date Assignment Signed:	March 3. 7.003
Inventor's Typed Name: Daniel Cotting		Date Application \$	Signed
State of)		
County of) ss.:)		
Before me this day of		, personally appearedDaniel	Cotting who is
personally known or proved to me on instrument of assignment to be his/her from			person who acknowledged the foregoing
			Notary Public
			My commission expires:
		Date Assignment Signed:	
Inventor's Signature (Seal)			
Inventor's Typed Name:		Date Application 9	signed
State of)) ss.:		
County of)		
Before me this day of personally known or proved to me on instrument of assignment to be his/her fre	the basis of s	satisfactory evidence to be the	who is person who acknowledged the foregoing
			Notary Public
			My commission expirés:
		Date Assignment Signed:	
Inventor's Signature (Seal)			
Inventor's Typed Name:		Date Application S	Signed
State of)) ss.:		
County of)		
Before me this day of personally known or proved to me on			who is person who acknowledged the foregoing
instrument of assignment to be his/her fre	ee act and deed	d.	
			Notary Public
			My commission majors:

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

Page 3 of 3

Rev 02/03 (Assign2)

Page 5 of 5

PATENT

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RECORDED: 10/10/2003