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Name of conveying pa	rty(ies):		2. Name a	and address of rec	ceiving party(ies):		
Mideraphie			HEWL	ETT-PACKARD D	EVELOPMENT C	OMPANY,	L.P.
Umeshwar Dayal			1	SH 249			
Daniel A. Keim			nousio	on, TX 77070			
Dominik Morent							
Additional name(s) of conve	eving party(ies) attached	? Tyes 🕱 No	o Additional r	name(s) and address	s(es) attached? □	Yes ⊠No	
3. Nature of Conveyance				(-)			
■ Assignment	☐Merger	☐ Change o	of Name	Security	Agreement	□Jo	oint
Other							
Execution Date(s): 07-31		9-12-2007; 09-	11-2007				
4. Application number(s)	or patent number(s):						
If this document is bein	ng filed together with a	a new application	on, executio	on date of the appl	ication is:		
A. Patent Application N	lo.(s)						
Application No.: 1	1/888,118	Date Filed	: July 31, 20	007			
Confirmation No.: 36	691	B. Patent N	No.(s):				
Additional numbers attac	hed? <u>NO</u>	· · · · · · · · · · · · · · · · · · ·		100.02		- OF II	
<ol> <li>Name and address of p concerning documents</li> </ol>		ondence	6. Total number of applications and patents involved:1				
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P.O. Box 272400 Fort Collins, Colorado	o <b>80527-2400</b>			it Account Number		~~	
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To the best of my know copy of the original dod  Dan C. Hu  Name of Person S	vledge and belief, the cument.	foregoing infor	rmation is tro	ue and correct and	d any attached cop	ວy is a <b>tr</b> we ວິຊີ	,
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Dan C. Hu	<u> </u>	1/10	MCA		September 26,	2007	40.00 DA
Name of Person S	Signing	Sign	ature		Date	8	40.
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Documents to Mail Stop Assignmen	number of pages included to be recorded (including the Recordation Services)	ng cover sheet es, Director of	t) should be the USPTO	faxed to (571) 273 , P.O. Box 1450, A	3-0140, or mailed Alexandria, V.A. 22	to: 🚡 2313-1450	C: 8021
		Page	1 of 1			94/5	<u>:</u>
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**PATENT** REEL: 019946 FRAME: 0735

Rev 10/06a (Assignment)

PATENT APPLICATION

ATTORNEY DOCKET NO.

200701611-1

#### **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: Generating a Visualization to Show Mining Results Produced from Selected Data Items and Attribute(s) in a Selected Focus Area and Other Portions of a Data Set Jul 31,2007 Application No.: 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 therefore; 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): 731/07
Date Assignment Signed Ming C. Hao Inventor's Typed Name State of ) ss.: County of , personally appeared Before me this Ming 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:

PATENT REEL: 019946 FRAME: 0736

### **PATENT APPLICATION**

ATTORNEY DOCKET NO. 200701611-1

# **ASSIGNMENT OF PATENT APPLICATION (cont.)**

IN WITNESS WHEREOF, I/we	hereunto set my/our hand(s)	and seal(s):		
Uhreshur Doyal	<del></del>	Si July 2007		
Inventor's Signature (Seal)		Date Assignment Signed		
I Imaghwar Daval		31 July 2007		
Umeshwar Dayal Inventor's Typed Name		Date Application Signed		
		2		
State of	)			
	) ss.:			
County of	j			
Before me this day of	, personally appeared	Umeshwar Dayal	who is personally	
known or proved to me on the basis of				
assignment to be his/her free act and dee	ed.			
		Notary Public		
		My Commission Expires:		
Inventor's Signature (Seal)		Date Assignment Signed		
, , ,				
Daniel A. Keim				
Inventor's Typed Name		Date Application Signed		
State of	)			
	) <b>s</b> s.:			
County of	)			
Before me this day of	, personally appeared	Daniel A. Keim	who is personally	
known or proved to me on the basis of		he person who acknowledged the f	oregoing instrument of	
assignment to be his/her free act and dee	ed.			
		Notary Public		
		My Commission Expires:		
Inventor's Signature (Seal)		Date Assignment Signed		
Dominik Morent				
Inventor's Typed Name		Date Application Signed		
State of	)			
	) ss.:			
County of	)			
Before me this day of	, personally appeared	Dominik Morent	who is personally	
known or proved to me on the basis of	satisfactory evidence to be ti	he person who acknowledged the f	oregoing instrument of	
assignment to be his/her free act and dee	ed.			
		Notary Public		
Rev 10/06a (Assignment)	Page 2 of 2	My Commission Expires:		
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**PATENT** 

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

Rev 10/06a (Assignment)

**PATENT APPLICATION** 

ATTORNEY DOCKET NO. \_\_\_\_\_\_200701611-1

## **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:

Generating a Visualization to Show Min Selected Focus Area and Other Portion		duced from S	elected Data Items	and Attribute(s) in a
Filing Date: July 31, 2007		Application	No : 11/888 118	
and the invention(s) and improvement(s) P's), divisionals, and renewals of and sub Patent of the United States and of count reissues, or reexaminations, or extensions I/we additionally authorize HPDC held and enjoyed by HPDC, its successors terms for which said Letters Patent respe same would have been held and enjoyed I AND I/we hereby covenant that I we have not executed and will not execute that I/we will, each time a request is made necessary or desirable to perfect the title Patent, to HPDC, its successors, assigns HPDC, or to its nominee, all known facts Letters Patent, to testify in any legal proce	estitutes for said a tries foreign there is of said Letters P is to file application is, assigns, nominal ectively may be g by me/us had this lowe have full right e any agreement e, and without und to said invention is, nominees or leadings, to sign all eedings, to sign all	and any and a application for seto which may eatent. Ins in my/our names or legal repranted, reissues assignment, and to convey the tin conflict here due delay, execun(s) or improve egal representation(s) or invention(s) or ill lawful papers	said Letters Patent, be granted thereof ame for Letters Pate expresentatives, to the ed or extended, as and transfer not bee e entire interest here ewith, and I/we furth cute and deliver all ement(s), said appliatives, and I/we ag improvement(s), said to execute all disco	and any and all Letters on or therefore; and any ent in any country, to be ne full end of the term or fully and entirely as the en made; ein assigned, and that I/her covenant and agree such papers as may be ication and said Letters gree to communicate to aid application and said claimers and divisionals.
continuations, C-I-P's, reissue and foreign do everything possible to aid HPDC, its enforce, for its or their own benefit, prope countries provided the expenses which m paid by HPDC;  AND I/we hereby authorize and re	applications, to successors, ass er patent protection may be incurred b	make all rightfusigns, nominees ion for said invo by me/us in len	ul oaths and declar s and legal represe ention(s) or improv ding such coopera	rations, and generally to entatives to obtain and rement(s) in any and all tion and assistance are
and any official of any country or count applications as aforesaid, to issue to HPI Patent for said invention(s) or improvement be issued and granted on or as a result of I/we further authorize and direct application now identified by the attorney been made known to them by the United S	tries foreign to to DC, as assignee nt(s), including and the application af the attorneys of docket number a	the United Stare of the entire range and all Letter foresaid, in accord to insert and title set for	tes whose duty it right, title and intercers Patent of the Usordance with the tent the serial number the above as soon a	is to issue patents on est, any and all Letters nited States which may erms of this assignment. If and filing date of said
IN WITNESS WHEREOF, I/we hereu	into set my/our ha	and(s) and seal(s	s):	
Inventor's Signature (Seal)		Da	te Assignment Signed	i
Ming C. Hao Inventor's Typed Name		Da	te Application Signed	
State of	) ) ss.:			
County of	)		•	
known or proved to me on the basis of satisfa	onally appeared actory evidence to		ning C. Hao who acknowledged th	who is personally ne foregoing instrument of
assignment to be his/her free act and deed.			Notary Public	
			My Commission Expire	res:

Page 1 of 2

**PATENT** REEL: 019946 FRAME: 0738

Rev 10/06a (Assignment)

PATENT APPLICATION

ATTORNEY DOCKET NO. \_\_\_\_

200701611-1

#### **ASSIGNMENT OF PATENT APPLICATION (cont.)**

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

Date Assignment Signed Inventor's Signature (Seal) Umeshwar Dayal inventor's Typed Name Date Application Signed State of County of , personally appeared Umeshwar Dayal who is personally Before me this day of 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. Notery Public My Commission Expires: Daniel A. Keim inventor's Typed Name State of County of Daniel A. Keim Before me this day of personally appeared 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. Notery Public My Commission Expires: Date Assignment Signed Inventor's Signature (Seal) Dominik Morent Inventor's Typed Name **Date Application Signed** State of County of Before me this day of \_, personally appeared\_ Dominik Morent 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:

Page 2 of 2

**PATENT** 

REEL: 019946 FRAME: 0739

PATENT APPLICATION

ATTORNEY DOCKET NO. 200701611-1

#### **ASSIGNMENT OF PATENT APPLICATION**

IWe, 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

Generating a Visualization to Show Mining Results Produced from Selected Data Items and Attribute(s) in a Selected Focus Area and Other Portions of a Data Set

Filing Date: July 31, 2007 **Application No.: 11/888,118** 

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 therefore; 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):

Inventor's Signature (Seal)		Date Assignment Signed	
Ming C. Hao			
Inventor's Typed Name		Date Application Signed	
State of	.)		
	) <b>s</b> s.:		
County of	)		
Before me this day of	, personally appeared	Ming C. Hao	who is personally
known or proved to me on the bar assignment to be his/her free act an	sis of satisfactory evidence to be the dideed.	person who acknowledged th	e foregoing instrument of
		Notary Public	
Rev 10/06s (Assignment)	Page 1 of 2	My Commission Expin	P#:

#### **PATENT APPLICATION**

ATTORNEY DOCKET NO. \_\_\_\_\_\_200701611-1

### ASSIGNMENT OF PATENT APPLICATION (cont.)

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

Inventor's Signature (Seal)	<u> </u>	Date Assignment Signed		
Umeshwar Dayal				
Invantor's Typed Name		Date Application Signed		
State of	)			
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County of	j			
Before me this day of	, personally appeared	Umeshwar Dayal	who is personally	
known or proved to me on the ba	sis of satisfactory evidence to be		foregoing instrument of	
		Notary Public		
		My Commission Expires	ı:	
Inventor's Signature (Seal)	The state of the s	Date Assignment Signed		
Daniel A. Keim				
Inventor's Typed Name		Date Application Signed		
State of	3)			
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Before me this day of	, personally appeared	Daniel A. Keim	who is personally	
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inventor's Signature (Seal)		Date Assignment Signed		
Dominik Morent		09/11/07	:	
Inventor's Typed Name		Date Application Signed		
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Before me this day of	, personally appeared	Dominik Morent	who is personally	
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<u> </u>	Page 2 of 2	My Commission Expires	;	
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PATENT REEL: 019946 FRAME: 0741

**RECORDED: 10/01/2007**