PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Pratyusa Kumar Manadhata	04/02/2012
Sandeep Yadav	03/29/2012
Prasad V. Rao	04/02/2012
Marc R. Eisenbarth	03/29/2012
William G. Horne	04/02/2012
Stuart Haber	03/30/2012

RECEIVING PARTY DATA

Name:	Hewlett-Packard Development Company, L.P.	
Street Address:	11445 Compaq Center Drive West	
City:	Houston	
State/Country:	TEXAS	
Postal Code:	77070	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13438567

CORRESPONDENCE DATA

Fax Number: (970)778-4063 Phone: (541)715-8443 Email: terri.tuma@hp.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

501877611

Correspondent Name: **Hewlett-Packard Company** Address Line 1: 3404 E. Harmony Road MS 35 Address Line 2: Intellectual Property Administration Address Line 4: Fort Collins, COLORADO 80528

NAME OF SUBMITTER: Jason P. Lorfing

PATENT

REEL: 027987 FRAME: 0412

Total Attachments: 8	
source=00192309#page1.tif	
source=00192309#page2.tif	
source=00192309#page3.tif	
source=00192309#page4.tif	
source=00192309#page5.tif	
source=00192309#page6.tif	
source=00192309#page7.tif	
source=00192309#page8.tif	

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 38 Fort Collins, Colorado 80528

PAT	ENT	APP	MС	ΔΤ	ION
				~ .	

RECORD ID:	82963097
------------	----------

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 Texas, (hereinafter HPDC), in furtherance of my/our obligate subsidiaries and affiliates, and do hereby assign and transfer to Hittle and Interest, including the right of priority, in, to and under an entitled: INFERRING A STATE OF BEHAVIOR THROUGH MARGINAL F	tions to the Hewlett-Packard Company and its HPDC, its successors and assigns, the entire right application for Letters Patent of the United States
Filing Date: HEREWITH Appl	leation No.:
and the Invention(s) and Improvement(s) set forth therein, and an P's), divisionals, and renewals of and substitutes for said applicational of the United States and of countries foreign thereto while releases, or reexaminations, or extensions of said Letters Patent. I/we additionally authorize HPDG to file applications in mind and enjoyed by HPDC, its successors, assigns, nominees or terms for which said Letters Patent respectively may be granted, same would have been held and enjoyed by me/us had this assign AND I/we hereby covenant that I/we have full right to come we have not executed and will not execute any agreement in continual I/we will, each time a request is made, and without undue denecessary or desirable to perfect the title to said invention(s) or Patent, to HPDC, its successors, assigns, nominees or legal reflecters Patent, to testify in any legal proceedings, to sign all lawfur continuations, C-I-P's, relisate and foreign applications, to make a deverything possible to aid HPDC, its successors, assigns, renorce, for its or their own benefit, proper patent protection for countries provided the expenses which may be incurred by me/upaid by HPDC; AND I/we hereby authorize and request the Commission and any official of any country or countries foreign to the Unapplications as aforesaid, to issue to HPDC, as assignee of the Patent for said invention(s) or improvement(s), including any and be issued and granted on or as a result of the application aforesail I/we further authorize and direct the attorneys of record application now identified by the Record ID and title set forth at	ny and all continuations, continuations-in-part (C-lifton for said Letters Patent, and any and all Letters ich may be granted thereon or therefore; and any ny/our name for Letters Patent in any country, to be legal representatives, to the full end of the term of released or extended, as fully and entirely as the inment, and transfer not been made; never the entire interest herein assigned, and that is filled herewith, and I/we further covenant and agree lay, execute and deliver all such papers as may be improvement(s), said application and said Letters presentatives, and I/we agree to communicate to presentatives, and I/we agree to communicate to presentatives, and in a said in any and all in papers, to execute all disclaimers and divisionals, all rightful daths and declarations, and generally to each interest and legal representatives to obtain and said invention(s) or improvement(s) in any and all in lending such cooperation and assistance are let of Patents and Trademarks of the United States are of Patents and Trademarks of the United States are in lending such cooperation and assistance are entire right, title and interest, any and all Letters all Letters Patent of the United States which may d, in accordance with the terms of this assignment. It to insert the serial number and filing date of said
known to them by the United States Patent and Trademark Office.	
1/	
	2-4-12
Inventor's Signature	Date Assignment Signed
First war to make the set of the	2-4-12
Pratyusa Kumar Manadhate V Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Sandeep Yadav	
Inventor's Typed Name	Date Application Signed

Page 1 of 2

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Hermony Road Mall Stop 35 Fort Coillos, Colorado 60526

PATENT APPLICATION

Mell Stop 35 Fort Collins, Colorado 80528	RECORD ID:	82963097
	IMENT OF PATENT APPLICATION (co	nt.)
Grand Ro	Date Absigner	2012
inventor's Signature	-	
Presed V. Rec	Date Application	212
Inventor's Typed Name	Date Applicat	dan Signed
Inventor's Signature	Date Assignm	nent Signed
Marc R. Eisenbarth		
Inventor's Typed Name	Date Applicat	tion Signed
Wudaan H. Helve Inventor's Signature	Date Assignm	/2012
inventor a aigustore)		2012
Millam G. Horne Inventor's Typed Name	Date Applicat	tion Signed
Inventor's Signatura	Date Assignr	nent Signed
Stuart Haber		
Inventor's Typed Name	Date Applica	lion Signed
Inventor's Signature	Date Assignm	nent Signed
Inventor's Typed Name	Dale Applica	tion Signed
Inventor's Signature	Date Assignm	nent Signed
Inventor's Typed Name	Date Applicat	ion Signed

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

RECORD ID:	82963097

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:

INFERRING A STATE OF BEHAVIOR THROUGH MARGINAL PROBABILITY ESTIMATION

Filing Date: HEREWITH	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 a	pplication for said Letters Patent, and any and all Letters
Patent of the United States and of countries foreign there reissues, or reexaminations, or extensions of said Letters Pa	
l/we additionally authorize HPDC to file application	is in my/our name for Letters Patent in any country, to be
held and enjoyed by HPDC, its successors, assigns, nomin-	ees or legal representatives, to the full end of the term or
terms for which said Letters Patent respectively may be gr	anted, relssued 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;
we have not executed and will not execute any agreement	to convey the entire interest herein assigned, and that I/
that I/we will, each time a request is made, and without und	ue 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 le	gal representatives, and I/we agree to communicate to
HPDC, or to its nominee, all known facts respecting said i	nvention(s) or improvement(s), said application and said
Letters Patent, to testify in any legal proceedings, to sign all continuations, C-I-P's, reissue and foreign applications, to	nake all rightful paths and declarations. And generally to
do everything possible to aid HPDC, its successors, assi	ans, nominees and legal representatives to obtain and
enforce, for its or their own benefit, proper patent protection	on for said invention(s) or improvement(s) in any and all
countries provided the expenses which may be incurred by	y me/us in lending such cooperation and assistance are
paid by HPDC;	incipate of Detacts and Trademorks of the United States
and any official of any country or countries foreign to the	hissioner of Patents and Trademarks of the United States are Linited 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 as	ny and all Letters Patent of the United States which may
be issued and granted on or as a result of the application af	oresaid, in accordance with the terms of this assignment.
application now identified by the Record ID and title set for	record to insert the serial number and filing date of said
known to them by the United States Patent and Trademark	Office.
Miles in the state of the state	2
	Pate Resignment Cigned
Inventor's Signature	Date Assignment Signed
Pratyusa Kumar Manadhata	
Inventor's Typed Name	Date Application Signed
	-1-01
. Soda	Date Assignment Signed
Inventor's Signature	
Sandeep Yadav	03/29/2012
Inventor's Typed Name	Date Application Signed
••	
Rev 09/11 (Assignment) Page 1	of 2

HEWLETT-PACKARD COMPANY Intellectual Property Administrator

PATENT APPLICATION

3404 E. Harmony Road Mail Stop 35	RECORD ID:	82963097
Fort Collins, Colorado 80528	IT OF PATENT APPLICATION (cont.)	
Addidition	in or the Electron (cont.)	
Inventor's Signature	Date Assignment Sign	ned
Prasad V. Rao		
Inventor's Typed Name	Date Application Sign	ed
Inventor's Signature	Date Assignment Sign	ned
Marc R. Eisenbarth		
Inventor's Typed Name	Date Application Sign	ed
Inventor's Signature	Date Assignment Sign	ned
William G. Horne		
Inventor's Typed Name	Date Application Sign	ed
Inventor's Signature	Date Assignment Sign	ned
Stuart Haber		
Inventor's Typed Name	Date Application Sign	ed
Inventor's Signature	Date Assignment Sign	ned
Inventor's Typed Name	Date Application Sign	ed
Inventor's Signature	Date Assignment Sign	ed
Inventor's Typed Name	Date Application Signe	ed

Page 2 of 2

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

RECORD ID:	82963097
RECORD ID:	82963097

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,

DEVELOPMENT COMPANT, C.P., a Texas Limited Partnership having its principal place of business in Houston, fexas, (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, itle and interest, including the right of priority, in, to and under an application for Letters Patent of the United States entitled: NFERRING A STATE OF BEHAVIOR THROUGH MARGINAL PROBABILITY ESTIMATION		
Filing Date: HEREWITH Ac	pplication No.:	
and the invention(s) and improvement(s) set forth therein, and P's), divisionals, and renewals of and substitutes for said application of the United States and of countries foreign thereto we reissues, or reexaminations, or extensions of said Letters Pater I/we additionally authorize HPDC to file applications in held and enjoyed by HPDC, its successors, assigns, nominees terms for which said Letters Patent respectively may be grants same would have been held and enjoyed by me/us had this assigns and would have been held and enjoyed by me/us had this assigns would have been held and enjoyed by me/us had this assigns would have been held and enjoyed by me/us had this assigns would have been held and enjoyed by me/us had this assigns would have been held and enjoyed by me/us had this assigns would have been held and enjoyed by me/us had this assigns would have been held and enjoyed by me/us had this assigns would have been held and enjoyed by me/us had this assigns and will right to we have not executed and will not execute any agreement in contact live will, each time a request is made, and without undue to the HPDC, its successors, assigns, nominees or legal HPDC, or to its nominee, all known facts respecting said invertetters Patent, to testify in any legal proceedings, to sign all law continuations, C-1-P's, reissue and foreign applications, to mak do everything possible to aid HPDC, its successors, assigns enforce, for its or their own benefit, proper patent protection for countries provided the expenses which may be incurred by me paid by HPDC; AND I/we hereby authorize and request the Commissi and any official of any country or countries foreign to the Lapplications as aforesaid, to issue to HPDC, as assignee of the Patent for said invention(s) or improvement(s), including any a be issued and granted on or as a result of the application afores I/we further authorize and direct the attorneys of recomplication now identified by the Record ID and title set forth known to them by the United States Patent and T	cation for said Letters Patent, and any and all Letters which may be granted thereon or therefore; and any at. I my/our name for Letters Patent in any country, to be or legal representatives, to the full end of the term or ed, reissued or extended, as fully and entirely as the signment, and transfer not been made; convey the entire interest herein assigned, and that I/conflict herewith, and I/we further covenant and agree delay, execute and deliver all such papers as may be or improvement(s), said application and said Letters representatives, and I/we agree to communicate to intion(s) or improvement(s), said application and said vful papers, to execute all disclaimers and divisionals, e all rightful oaths and declarations, and generally to nominees and legal representatives to obtain and or said invention(s) or improvement(s) in any and all eclus in lending such cooperation and assistance are oner of Patents and Trademarks of the United States United States whose duty it is to issue patents on the entire right, title and interest, any and all Letters and all Letters Patent of the United States which may said, in accordance with the terms of this assignment and to insert the serial number and filing date of said above as soon as the same shall have been made	
Inventor's Signature	Date Assignment Signed	
Pratyusa Kumar Manadhata		
Inventor's Typed Name	Date Application Signed	
Inventor's Signature	Date Assignment Signed	
Sandeep Yadav		
Inventor's Typed Name	Date Application Signed	

Rev 09/11 (Assignment)

Page 1 of 2

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mall Stop 35 Fort Collins, Colorado 80528

PATENT APPLICATION

Mail Stop 35	RECORD ID:82963097
Fort Collins, Colorado 80528	
ASSIGNMENT	FOF PATENT APPLICATION (cont.)
Inventor's Signature	Date Assignment Signed
Prasad V. Rao	
Inventor's Typed Name	Date Application Signed
7. The state of th	akoloma
Inventor's Signature	Date Assignment Signed
Marc R. Eisenbarth	3/34/Jest L
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
William G. Horne	
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
missing a dignature	Date Assignment Signed
Stuart Haber Inventor's Typed Name	
inventor a rypeu reente	Date Application Signed
Inventor's Signature	Date Assignment Signed
Inventor's Typed Name	Date Application Signed
nventor's Signature	Date Assignment Signed
nventor's Typed Name	Date Application Signed

Rev 09/11 (Assignment)

Page 2 of 2

	HEWLETT-PACKARD COMPANY
	intellectual Property Administrator
	3404 E. Harmony Road
i	Mail Stop 35
	Fort Collins, Colorado 80528

PATENT	A PPI		TION
	$\Delta \Gamma \Gamma \Gamma$	ı	11014

RECORD ID:	82963097
------------	----------

ASSIGNMENT OF PATENT APPLICATION

f/We, the undersigned (each) have according to the property of the control of the	greed and hereby agree to assign to HEWLETT-PACKARI Partnership having its principal place of business in Houston //our obligations to the Hewlett-Packard Company and it transfer to HPDC, its successors and assigns, the entire right and under an application for Letters Patent of the United States IARGINAL PROBABILITY ESTIMATION
Filing Date: HEREWITH	Application No.:
P's), divisionals, and renewals of and substitutes for Patent of the United States and of countries foreign reissues, or reexaminations, or extensions of said Let I/we additionally authorize HPDC to file appl held and enjoyed by HPDC, its successors, assigns, terms for which said Letters Patent respectively may same would have been held and enjoyed by me/us has AND I/we hereby covenant that I/we have fully we have not executed and will not execute any agree that I/we will, each time a request is made, and without necessary or desirable to perfect the title to said invitate. If the HPDC, its successors, assigns, nominees HPDC, or to its nominee, all known facts respecting Letters Patent, to testify in any legal proceedings, to scontinuations, C-I-P's, reissue and foreign application do everything possible to aid HPDC, its successors enforce, for its or their own benefit, proper patent procountries provided the expenses which may be incurpaid by HPDC. AND I/we hereby authorize and request the Cand any official of any country or countries foreign applications as aforesaid, to issue to HPDC, as assignation and any official of any country or countries foreign applications as aforesaid, to issue to HPDC, is includible issued and granted on or as a result of the application is the further authorize and direct the attorned the further author	ications in my/our name for Letters Patent in any country, to be nominees or legal representatives, to the full end of the term of be granted, reissued or extended, as fully and entirely as the id this assignment, and transfer not been made; Il right to convey the entire interest herein assigned, and that he ment in conflict herewith, and I/we further covenant and agree ut undue delay, execute and deliver all such papers as may be ention(s) or improvement(s), said application and said Letters or legal representatives, and I/we agree to communicate to said invention(s) or improvement(s), said application and said ign all lawful papers, to execute all disclaimers and divisionals, s, to make all rightful oaths and declarations, and generally to assigns, nominees and legal representatives to obtain and otection for said invention(s) or improvement(s) in any and all red by me/us in lending such cooperation and assistance are Commissioner of Patents and Trademarks of the United States to the United States whose duty it is to issue patents on genee of the entire right, title and interest, any and all Letters any and all Letters Patent of the United States which may on aforesaid, in accordance with the terms of this assignment, ys of record to insert the serial number and filing date of said set forth above as soon as the same shall have been made set forth above as soon as the same shall have been made set forth above as soon as the same shall have been made set.
nventor's Signature	Date Assignment Signed
Protuing Kumas Manadhat	
Pratyusa Kumar Manadhata nventor's Typed Name	Date Assistant Or as
- Jpod Hame	Date Application Signed
nventor's Signature	Date Assignment Signed
andeep Yadav	
nventor's Typed Name	Date Application Signed

Rev 09/11 (Assignment)

Page 1 of 2

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

PATENT APPLICATION

RECORD ID:	82963097	
------------	----------	--

ASSIGNMENT OF PATENT APPLICATION (cont.)

Inventor's Signature	Date Assignment Signed
Prasad V. Rao	
inventor's Typed Name	Date Application Signed
inventor's Signature	Date Assignment Signed
Marc R. Eisenbarth	
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
NATIO.	gand organic
William G. Horne Inventor's Typed Name	Date Application Signed
Inventor's Signature	30 March 2012
myentor's dignature	Date Assignment Signed
Stuart Haber	30 March 2012
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Inventor's Typed Name	Date Application Signed
nventor's Signature	Date Assignment Signed
	Date Application Signed
nventor's Typed Name	Date Application Signed

Rev 09/11 (Assignment)

RECORDED: 04/04/2012

Page 2 of 2