#### 501905897 05/01/2012

## PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
Puneet Sharma	04/27/2012
Tianxiong Ji	04/27/2012
Zhikui Wang	04/27/2012

### 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:	13460535

### 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

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

NAME OF SUBMITTER: Neely Entwistle

Total Attachments: 4

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> **PATENT** REEL: 028133 FRAME: 0484

501905897

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

	NT				

RECORD ID: 829164	24
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## **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:

Filing Date: April 30, 2012	Application No.: 13/460,535
and the invention(s) and improvement(s) set P's), divisionals, and renewals of and substitut Patent of the United States and of countries reissues, or reexaminations, or extensions of I/we additionally authorize HPDC to held and enjoyed by HPDC, its successors, a terms for which said Letters Patent respectiv same would have been held and enjoyed by n AND I/we hereby covenant that I/we we have not executed and will not execute ar that I/we will, each time a request is made, ar necessary or desirable to perfect the title to Patent, to HPDC, its successors, assigns, n HPDC, or to its nominee, all known facts res Letters Patent, to testify in any legal proceedic continuations, C-I-P's, reissue and foreign ap do everything possible to aid HPDC, its successors.	forth therein, and any and all continuations, continuations-in-part (C-I- stes for said application for said Letters Patent, and any and all Letters foreign thereto which may be granted thereon or therefore; and any said Letters Patent.  file applications in my/our name for Letters Patent in any country, to be ssigns, nominees or legal representatives, to the full end of the term or ely may be granted, reissued or extended, as fully and entirely as the ne/us had this assignment, and transfer not been made; have full right to convey the entire interest herein assigned, and that is ny agreement in conflict herewith, and I/we further covenant and agree and without undue delay, execute and deliver all such papers as may be said invention(s) or improvement(s), said application and said Letters ominees or legal representatives, and I/we agree to communicate to specting said invention(s) or improvement(s), said application and said ngs, to sign all lawful papers, to execute all disclaimers and divisionals plications, to make all rightful oaths and declarations, and generally to exessors, assigns, nominees and legal representatives to obtain and
countries provided the expenses which may paid by HPDC;	atent protection for said invention(s) or improvement(s) in any and al be incurred by me/us in lending such cooperation and assistance are
and any official of any country or countries applications as aforesaid, to issue to HPDC, Patent for said invention(s) or improvement(s be issued and granted on or as a result of the I/we further authorize and direct the application now identified by the Record ID	s foreign to the United States whose duty it is to issue patents on as assignee of the entire right, title and interest, any and all Letters i), including any and all Letters Patent of the United States which may application aforesaid, in accordance with the terms of this assignment. It attorneys of record to insert the serial number and filing date of said and title set forth above as soon as the same shall have been made
and any official of any country or countries applications as aforesaid, to issue to HPDC, Patent for said invention(s) or improvement(s be issued and granted on or as a result of the I/we further authorize and direct the application now identified by the Record ID known to them by the United States Patent ar	
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**PATENT** REEL: 028133 FRAME: 0485 HEWLETT-PACKARD COMPANY intellectual Property Administrator 3404 E. Harmony Road Mail Souling 35

# PATENT APPLICATION

Mail Stop 35 Fort Collins, Colorado 80528	RECORD ID:	82916424				
	ENT OF PATENT APPLICATION (cor	nt.)				
		7/2012				
Inventor's Signature		Date Assignment Signed				
Zhikui Wang	412	7/2012				
Inventor's Typed Name	Date Application	on Signed				
Inventor's Signature	Date Assignm	ent Signed				
Inventor's Typed Name	Date Application	on Signed				
Inventor's Signature	Date Assignme	ent Signed				
Inventor's Typed Name	Date Application	on Signed				
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Inventor's Signature	Date Assignme	mt Signed				
Inventor's Typed Name	Date Applicatio	n Signed				

Page 2 of 2

Rev 09/11 (Assignment)

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

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RECORD ID:	82916424

## **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 tran-	sfer to HPDC, its successors and assigns, the entire right, under an application for Letters Patent of the United States
USING PROBABILISTIC VALUES FOR ROUTING DATA	A PACKETS ON A DATA CENTER NETWORK
Filing Date: April 30, 2012	13/460,535 Application No.:
P's), divisionals, and renewals of and substitutes for said Patent of the United States and of countries foreign the reissues, or reexaminations, or extensions of said Letters I/we additionally authorize HPDC to file application held and enjoyed by HPDC, its successors, assigns, nom terms for which said Letters Patent respectively may be same would have been held and enjoyed by me/us had the AND I/we hereby covenant that I/we have full rig we have not executed and will not execute any agreement that I/we will, each time a request is made, and without un necessary or desirable to perfect the title to said invention Patent, to HPDC, its successors, assigns, nominees or HPDC, or to its nominee, all known facts respecting said Letters Patent, to testify in any legal proceedings, to sign a continuations, C-I-P's, reissue and foreign applications, to do everything possible to aid HPDC, its successors, as enforce, for its or their own benefit, proper patent protect countries provided the expenses which may be incurred paid by HPDC;  AND I/we hereby authorize and request the Command any official of any country or countries foreign to applications as aforesaid, to issue to HPDC, as assigne Patent for said invention(s) or improvement(s), including the issued and granted on or as a result of the application of I/we further authorize and direct the attorneys of application now identified by the Record ID and title set known to them by the United States Patent and Trademar	ons in my/our name for Letters Patent in any country, to be inees or legal representatives, to the full end of the term or granted, reissued or extended, as fully and entirely as the is assignment, and transfer not been made; that to convey the entire interest herein assigned, and that I/ in conflict herewith, and I/we further covenant and agree indue delay, execute and deliver all such papers as may be on(s) or improvement(s), said application and said Letters legal representatives, and I/we agree to communicate to I invention(s) or improvement(s), said application and said all lawful papers, to execute all disclaimers and divisionals, or make all rightful oaths and declarations, and generally to signs, nominees and legal representatives to obtain and tion for said invention(s) or improvement(s) in any and all by me/us in lending such cooperation and assistance are numissioner of Patents and Trademarks of the United States the United States whose duty it is to issue patents on e of the entire right, title and interest, any and all Letters any and all Letters Patent of the United States which may aforesaid, in accordance with the terms of this assignment. In of record to insert the serial number and filing date of said forth above as soon as the same shall have been made k Office.
Inventor's Signature	Date Assignment Signed
Puneet Sharma	
Inventor's Typed Name	Date Application Signed
and i	April 27, 2012
Inventor's Signature	Date Assignment Signed
Tianxiong Ji	April 27, 2012
Inventor's Typed Name	Date Application Signed

Page 1 of 2 Rev 09/11 (Assignment)

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

# PATENT APPLICATION

Mail Stop 35 Fort Collins, Colorado 80528	RECORD ID:	82916424
	SSIGNMENT OF PATENT APPLICATION	(cont.)
Inventor's Signature	Date Ass	signment Signed
Zhikui Wang Inventor's Typed Name	Date Ap	plication Signed
Inventor's Signature	Date Ass	signment Signed
Inventor's Typed Name	Date Ap	plication Signed
Inventor's Signature		signment Signed
Inventor's Typed Name	Date App	plication Signed
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**RECORDED: 05/01/2012**