

200507141-1 ATTORNEY DOCKET NO. \_

U.S. PTO 11/714509 03/06/2007

03-23-2007



	REC	RECORDATION FORM COVER S		s III III III		
		PATEN	NTS ONLY	103386	402	
1. Name of conveying party	/(ies):		2. Name and a	ddress of receiving party(ies		
Yunhong Zhou			HEWI ETT	PACKARD DEVELOPMENT	COMPANY I B	
Robert E. Tarjan	Robert E. Tarjan			HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. 20555 SH 249		
Bin Zhang			Houston, TX	X 77 <b>0</b> 70		
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Additional name(s) of conveying	no partv(ies) attached	? □Yes ѬNo	Additional name(	s) and address(es) attached? [	Vec VINe	
3. Nature of Conveyance:	37-3/(-0)		) recitional flame(	o) and ddarooo(oo) allaonica?		
■ Assignment     ■ Assignment	Merger	☐ Change of	of Name	Security Agreement	□Joint	
Other .				. •		
Execution Date(s): 03-02-2	007; 03-05-2007; 0:	3-02-2007				
4. Application number(s) or	patent number(s):			7.4		
If this document is being	filed together with a	new applicati	on, execution dat	e of the application is: 03-0	5-2007	
A. Patent Application No	.(s)			• •		
Application No.:	` ,	Date Filed	:			
Confirmation No.:		B. Patent No.(s):				
Additional numbers attache			10.7			
Name and address of party to whom correspondence concerning document should be mailed:		6. Total number of applications and patents involved: 1				
		7. Total Fee (37 CFR 3.41):\$40.00				
Records Manager Intellectual Property Administration			Enclose	ed		
HEWLETT-PACKARD COMPANY			X Authori	zation to be charged to depo	osit account.	
P.O. Box 272400 Fort Collins, Colorado 80527-2400			8. Deposit Account Number: 08-2025			
9. Statement and signature			<u> </u>			
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copy of the original docu	nent.	ioregoing intol	malion is true an	d correct and any attached o	copy is a true	
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Name of Person Signing  Signature  March 6, 2007  Date						
Total nui	mber of pages inclu	ding covershe	et, attachments, a	and documents: 7		
			<del></del>	to (571) 273-0140, or maile	ad to:	
Mail Stop Assignment	Recordation Service	es, Director of	the USPTO, P.O.	Box 1450, Alexandria, V.A.	22313-1450	
		Pane	1 of 1			

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Rev 10/08s (Assignment)

ATTORNEY DOCKET NO. 200507141-1

## **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:				
Balancing Collections of Vertices in a Network				
Filter Bases				
Filing Date: Applicati				
and the invention(s) and improvement(s) set forth therein, and any are P's), divisionals, and renewals of and substitutes for said application to Patent of the United States and of countries foreign thereto which reissues, or reexaminations, or extensions of said Letters Patent.	for said Letters Patent, and any and all Letters may be granted thereon or therefore; and any			
I/we additionally authorize HPDC to file applications in my/ou				
held and enjoyed by HPDC, its successors, assigns, nominees or legaterms for which said Letters Patent respectively may be granted, reis same would have been held and enjoyed by me/us had this assignment	sued or extended, as fully and entirely as the			
AND I/we hereby covenant that I/we have full right to convey				
we have not executed and will not execute any agreement in conflict that I/we will, each time a request is made, and without undue delay, necessary or desirable to perfect the title to said invention(s) or important, to HPDC, its successors, assigns, nominees or legal representant, to the its nominee, all known facts respecting said invention(s) betters Patent, to testify in any legal proceedings, to sign all lawful paracontinuations, C-I-P's, reissue and foreign applications, to make all right of everything possible to aid HPDC, its successors, assigns, nominenforce, for its or their own benefit, proper patent protection for said countries provided the expenses which may be incurred by me/us in paid by HPDC;	execute and deliver all such papers as may be reverent(s), said application and said Letters sentatives, and I/we agree to communicate to or improvement(s), said application and said pers, to execute all disclaimers and divisionals, ghtful oaths and declarations, and generally to nees and legal representatives to obtain and invention(s) or improvement(s) in any and all lending such cooperation and assistance are			
AND I/we hereby authorize and request the Commissioner of and any official of any country or countries foreign to the United applications as aforesaid, to issue to HPDC, as assignee of the ent Patent for said invention(s) or improvement(s), including any and all the issued and granted on or as a result of the application aforesaid, in I/we further authorize and direct the attorneys of record to it	States whose duty it is to issue patents on ire right, title and interest, any and all Letters Letters Patent of the United States which may accordance with the terms of this assignment insert the serial number and filling date of said			
application now identified by the attorney docket number and title se been made known to them by the United States Patent and Trademark	t forth above as soon as the same shall have k Office.			
IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and s	3/2/07			
Inventor's Signature (Seal)	Date Assignment Signed			
	2/2/27			
Yunhong Zhou	7/2/0/			
Inventor's Typed Name	Date Application Signed			
State of ) ) ss.:				
County of )				
Before me thisday of, personally appeared	Yunhong Zhou who is personally			
known or proved to me on the basis of satisfactory evidence to be the per- assignment to be his/her free act and deed.	son who acknowledged the foregoing instrument of			

Page 1 of 2

**PATENT** 

**REEL: 019074 FRAME: 0660** 

My Commission Expires:

## PATENT APPLICATION

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

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

Inventor's Signature (Seal)		Date Assignment Signed
Robert E. Tarjan		
Inventor's Typed Name		Date Application Signed
State of	)	
	) ss.:	
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	, personally appeared	Robert E. Tarjan who is personally ne person who acknowledged the foregoing instrument of
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		Notary Public
•	•	My Commission Expires:
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Inventor's Signature (Seal)		Date Assignment Signed
Bin Zhang		
Inventor's Typed Name		Date Application Signed
State of	)	
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Before me this day of	, personally appeared	Bin Zhang who is personally
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assignment to be his/her free act a		to person with additionaged the foreigning management of
		Notary Public
		My Commission Expires:
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Inventor's Typed Name		Date Application Signed
State of	)	
•	) ss.:	·
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Before me this day of	, personally appeared	who is personally
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		Notary Public
		My Commission Expires:
Rev 10/06s (Assignment)	Page 2 of 2	

**PATENT REEL: 019074 FRAME: 0661**  HEWLETT-PACKARD COMPANY Intellectual Property Administrator P.O. Box 272400 Fort Collins, Colorado 80527-2400 PATENT APPLICATION

ATTORNEY DOCKET NO.

200507141-1

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 mylour 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: Balancing Collections of Vertices in a Network Filing Date: 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): Inventor's Signature (Seal) **Date Assignment Signed** Yunhong Zhou Inventor's Typed Name Date Application Signed State of 55.: County of

Notary Public

Yunhong Zhou

My Commission Expires

Rev 10/06a (Assignment) Bage 1 of 2

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known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of

day of

assignment to be his/her free act and deed.

Before me this

who is personally

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

#### PATENT APPLICATION

# ASSIGNMENT OF PATENT APPLICATION (cont.)

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PATENT

REEL: 019074 FRAME: 0663

Rev 10/06a (Assignment)

ATTORNEY DOCKET NO.

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#### ASSIGNMENT OF PATENT APPLICATION

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**Notary Public** 

My Commission Expires:

PATENT REEL: 019074 FRAME: 0664

### PATENT APPLICATION

ATTORNEY DOCKET NO. \_\_

200507141-1

## ASSIGNMENT OF PATENT APPLICATION (cont.)

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

Inventor's Signature (Seal)		Date Assignment Signed	
Robert E. Tarjan			
Inventor's Typed Name		Date Application Signed	
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Box 10/08s /Accionments	Page 2 of 2		

PATENT REEL: 019074 FRAME: 0665