

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT7013633

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the ASSIGNOR TANG, CHUNGQIANG SHOULD BE TANG, CHUNQIANG previously recorded on Reel 015072 Frame 0553. Assignor(s) hereby confirms the ASSIGNOR TANG, CHUNGQIANG SHOULD BE TANG, CHUNQIANG.
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SUJATA BANERJEE	03/10/2004
SUNG-JU LEE	03/08/2004
ZHICHEN XU	03/08/2004
CHUNQIANG TANG	03/09/2004
ZHIHENG WANG	03/09/2004
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.
<b>Street Address:</b>	11445 COMPAQ CENTER DRIVE WEST
<b>City:</b>	HOUSTON
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77070
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	10797152
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	(970) 898-7472
<b>Email:</b>	hpe.ip.mail@hpe.com
<b>Correspondent Name:</b>	HEWLETT PACKARD ENTERPRISE
<b>Address Line 1:</b>	3404 E. HARMONY ROAD MS 79
<b>Address Line 4:</b>	FORT COLLINS, COLORADO 80528
<b>ATTORNEY DOCKET NUMBER:</b>	82174673
<b>NAME OF SUBMITTER:</b>	KATHY HUNGSBERG
<b>SIGNATURE:</b>	/Kathy Hungsberg/
<b>DATE SIGNED:</b>	11/09/2021

**Total Attachments: 16**

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03-17-2004

EET

Attorney Docket No. 200311282-1



102696599

3-11-04

1. Name of conveying party(ies):

Sujata Banerjee  
Sung-Ju Lee  
Zhichen Xu  
Chunqiang Tang  
Zhiheng Wang

2. Name and address of receiving party(ies):

HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  
20555 SH 249  
Houston, TX 77070

22856 U.S. PTO  
10797152  
031104

Additional name(s) of conveying party(ies) attached  Yes  No

Additional name(s) & address(es) attached?  Yes  No

3. Nature of Conveyance:

Assignment  Merger  Change of Name  
 Security Agreement  Other

Execution Date(s): 3/8/04, 3/9/04, 3/10/04

4. Application number(s) or patent number(s):

10797152

If this document is being filed together with a new application, execution date of the application is: 3/11/04

A. Patent Application No.(s)

B. Patent No.(s)

Application No.:

Date Filed:

Confirmation No.:

Additional numbers attached? NO

5. Name and address of party to whom correspondence concerning document should be mailed:

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

6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41): . . . . \$40.00

Enclosed

Authorization to be charged to deposit account.

8. Deposit Account Number: 08-2025

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

03/16/2004 6T0M11 00000107 082025 10797152

01 FC:8021 40.00 DA

Ashok K. Mannava  
Name of Person Signing

Signature

Mar 11, 2004  
Date

Total number of pages including cover sheet, attachments, and document: 5

OMB No. 0651-0011 (exp. 4/94)

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Director of the US Patent and Trademark Office  
PO Box 1450  
Alexandria, VA 22313-1450

When recorded please return to:

HEWLETT-PACKARD COMPANY  
Intellectual Property Administrator  
P. O. Box 372400  
Fort Collins, Colorado 80527-2400

PATENT APPLICATION

ATTORNEY DOCKET NO. 200311282-1

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:

REQUESTING A SERVICE FROM A MULTICAST NETWORK

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 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, renewed 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 landing 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):

Sujata Banerjee Date Assignment Signed: March 10, 2004  
Inventor's Signature (Seal)

Inventor's Typed Name: Sujata Banerjee Date Application Signed: March 10, 2004

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.:

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Sujata Banerjee 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: \_\_\_\_\_

When recorded please return to:  
HEWLETT-PACKARD COMPANY  
Intellectual Property Administration  
P. O. Box 272400  
Fort Collins, Colorado 80527-2400

PATENT APPLICATION  
ATTORNEY DOCKET NO. 200311282-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

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

Sung-Ju Lee Date Assignment Signed: 3/8/04  
Inventor's Signature (Seal)

Inventor's Typed Name: Sung-Ju Lee Date Application Signed: 3/8/04

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.:

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Sung-Ju Lee 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:

Zhichen Xu Date Assignment Signed: 3/8/2004  
Inventor's Signature (Seal)

Inventor's Typed Name: Zhichen Xu Date Application Signed: 3/8/2004

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.:

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Zhichen Xu 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:

\_\_\_\_\_  
Inventor's Signature (Seal) Date Assignment Signed: \_\_\_\_\_

Inventor's Typed Name: Chunqiang Tang Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.:

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Chunqiang Tang 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:

When recorded please return to:  
 HEWLETT-PACKARD COMPANY  
 Intellectual Property Administration  
 P. O. Box 272400  
 Fort Collins, Colorado 80527-2400

PATENT APPLICATION

ATTORNEY DOCKET NO. 200311282-1

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)

Inventor's Typed Name: Sung-Ju Lee Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ )  
 ) ss.:  
 County of \_\_\_\_\_ )

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Sung-Ju Lee 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: \_\_\_\_\_

\_\_\_\_\_  
 Date Assignment Signed: \_\_\_\_\_  
 Inventor's Signature (Seal)

Inventor's Typed Name: Zhichen Xu Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ )  
 ) ss.:  
 County of \_\_\_\_\_ )

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Zhichen Xu 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: \_\_\_\_\_

Chung Tang  
 \_\_\_\_\_  
 Date Assignment Signed: 03/09/2004  
 Inventor's Signature (Seal)

Inventor's Typed Name: Chung Tang Date Application Signed: 03/09/2004

State of New York )  
 ) ss.:  
 County of Monroe )

Before me this 9th day of March 2004, personally appeared Chung Tang 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.

LOUISE C. VANNI  
 Notary Public, State of New York  
 No. 4717424  
 My commission expires County of Monroe  
 Commission Expires April 30, 2004

When recorded please return to:  
HONEYWELL-PACKARD COMPANY  
Intellectual Property Administration  
P. O. Box 372409  
Fort Collins, Colorado 80527-2409

PATENT APPLICATION  
ATTORNEY DOCKET NO. 200311282-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

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

[Signature] Date Assignment Signed 3/9/04  
Inventor's Signature (Seal)

Inventor's Typed Name Zhibang Wang Date Application Signed 3/9/04

State of MICHIGAN }  
County of WASHTENAW } ss.

Before me this 9<sup>th</sup> day of March, 2004 personally appeared Zhibang Wang 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 Seal]  
Notary Public, State of Michigan, My Commission Expires 06/30/07

[Signature]  
Notary Public  
My commission expires September 20, 2007

\_\_\_\_\_  
Inventor's Signature (Seal) Date Assignment Signed: \_\_\_\_\_

\_\_\_\_\_  
Inventor's Typed Name: \_\_\_\_\_ Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss.

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.

\_\_\_\_\_  
Notary Public  
My commission expires \_\_\_\_\_

\_\_\_\_\_  
Inventor's Signature (Seal) Date Assignment Signed: \_\_\_\_\_

\_\_\_\_\_  
Inventor's Typed Name: \_\_\_\_\_ Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss.

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\_\_\_\_\_  
Notary Public  
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PATENT APPLICATION

ATTORNEY DOCKET NO. 200311282-1

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REQUESTING A SERVICE FROM A MULTICAST NETWORK

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 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, renewed 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 landing 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):

Sujata Banerjee Date Assignment Signed: March 10, 2004  
Inventor's Signature (Seal)

Inventor's Typed Name: Sujata Banerjee Date Application Signed: March 10, 2004

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.:

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Sujata Banerjee 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: \_\_\_\_\_



When recorded please return to:  
HEWLETT-PACKARD COMPANY  
Intellectual Property Administration  
P. O. Box 272400  
Fort Collins, Colorado 80527-2400

PATENT APPLICATION  
ATTORNEY DOCKET NO. 200311282-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

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

Sung-Ju Lee Date Assignment Signed: 3/8/04  
Inventor's Signature (Seal)

Inventor's Typed Name: Sung-Ju Lee Date Application Signed: 3/8/04

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.:

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Sung-Ju Lee 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:

Zhichen Xu Date Assignment Signed: 3/8/2004  
Inventor's Signature (Seal)

Inventor's Typed Name: Zhichen Xu Date Application Signed: 3/8/2004

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.:

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Zhichen Xu 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:

\_\_\_\_\_  
Inventor's Signature (Seal) Date Assignment Signed: \_\_\_\_\_

Inventor's Typed Name: Chunqiang Tang Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.:

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Chunqiang Tang 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:

When recorded please return to:  
 HEWLETT-PACKARD COMPANY  
 Intellectual Property Administration  
 P. O. Box 272400  
 Fort Collins, Colorado 80527-2400

PATENT APPLICATION

ATTORNEY DOCKET NO. 200311282-1

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)

Inventor's Typed Name: Sung-Ju Lee Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ )  
 ) ss.:  
 County of \_\_\_\_\_ )

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Sung-Ju Lee 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: \_\_\_\_\_

\_\_\_\_\_  
 Date Assignment Signed: \_\_\_\_\_  
 Inventor's Signature (Seal)

Inventor's Typed Name: Zhichen Xu Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ )  
 ) ss.:  
 County of \_\_\_\_\_ )

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Zhichen Xu 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: \_\_\_\_\_

Chung Tang  
 Date Assignment Signed: 03/09/2004  
 Inventor's Signature (Seal)

Inventor's Typed Name: Chung Tang Date Application Signed: 03/09/2004

State of New York )  
 ) ss.:  
 County of Monroe )

Before me this 9th day of March, 2004, personally appeared Chung Tang 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.

LOUISE C. VANNI  
 Notary Public, State of New York  
 No. 4717424  
 My commission expires County of Monroe  
 Commission Expires April 30, 2004

When recorded please return to:  
HUNLEY-PACKARD COMPANY  
Intellectual Property Administration  
P. O. Box 372409  
Fort Collins, Colorado 80527-2409

PATENT APPLICATION  
ATTORNEY DOCKET NO. 200311282-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

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

[Signature] Date Assignment Signed 3/9/04  
Inventor's Signature (Seal)

Inventor's Typed Name Zhibang Wang Date Application Signed 3/9/04

State of MICHIGAN }  
County of WASHTENAW } ss.

Before me this 9<sup>th</sup> day of March, 2004 personally appeared Zhibang Wang 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 Seal]  
Notary Public, Washtenaw Co., MI  
My Commission Expires 06/30/07

[Signature]  
Notary Public  
My commission expires September 20, 2007

\_\_\_\_\_  
Inventor's Signature (Seal) Date Assignment Signed: \_\_\_\_\_

\_\_\_\_\_  
Inventor's Typed Name: \_\_\_\_\_ Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss.

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\_\_\_\_\_  
Notary Public  
My commission expires \_\_\_\_\_

\_\_\_\_\_  
Inventor's Signature (Seal) Date Assignment Signed: \_\_\_\_\_

\_\_\_\_\_  
Inventor's Typed Name: \_\_\_\_\_ Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ }  
County of \_\_\_\_\_ } ss.

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.

\_\_\_\_\_  
Notary Public  
My commission expires \_\_\_\_\_



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ASSIGNMENT OF PATENT APPLICATION (cont.)

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

Sung-Ju Lee Date Assignment Signed: 3/8/04  
Inventor's Signature (Seal)

Inventor's Typed Name: Sung-Ju Lee Date Application Signed: 3/8/04

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.:

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Zhichen Xu Date Assignment Signed: 3/8/2004  
Inventor's Signature (Seal)

Inventor's Typed Name: Zhichen Xu Date Application Signed: 3/8/2004

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Notary Public  
My commission expires:

\_\_\_\_\_  
Inventor's Signature (Seal) Date Assignment Signed: \_\_\_\_\_

Inventor's Typed Name: Chunqiang Tang Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ )  
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PATENT APPLICATION

ATTORNEY DOCKET NO. 200311282-1

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)

Inventor's Typed Name: Sung-Ju Lee Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ )  
 ) ss.:  
 County of \_\_\_\_\_ )

Before me this \_\_\_\_ day of \_\_\_\_\_, personally appeared Sung-Ju Lee 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: \_\_\_\_\_

\_\_\_\_\_  
 Date Assignment Signed: \_\_\_\_\_  
 Inventor's Signature (Seal)

Inventor's Typed Name: Zhichen Xu Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ )  
 ) ss.:  
 County of \_\_\_\_\_ )

Before me this \_\_\_\_ day of \_\_\_\_\_, personally appeared Zhichen Xu 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: \_\_\_\_\_

Chungqiang Yang  
 Date Assignment Signed: 03/09/2004  
 Inventor's Signature (Seal)

Inventor's Typed Name: Chungqiang Yang Date Application Signed: 03/09/2004

State of New York )  
 ) ss.:  
 County of Monroe )

Before me this 9th day of March 2004, personally appeared Chungqiang Yang 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.

LOUISE O. VANNI  
 Notary Public, State of New York  
 My commission expires: April 30, 2004  
 NO. 4717424  
 County of Monroe

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

When recorded please return to:  
HEWLETT-PACKARD COMPANY  
Intellectual Property Administration  
P. O. Box 272400  
Fort Collins, Colorado 80527-2400

PATENT APPLICATION  
ATTORNEY DOCKET NO. 200311282-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

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

[Signature] Date Assignment Signed: 3/9/04  
Inventor's Signature (Seal)

Inventor's Typed Name Zhiheng Wang Date Application Signed 3/9/04

State of MICHIGAN ) ss.:

County of WASHTENAW )

Before me this 9<sup>th</sup> day of March 2004 personally appeared Zhiheng Wang 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, Washtenaw Co., MI**  
My Commission Expires **06-28-05**

[Signature]  
Notary Public  
My commission expires September 26, 2007

\_\_\_\_\_  
Inventor's Signature (Seal) Date Assignment Signed: \_\_\_\_\_

\_\_\_\_\_  
Inventor's Typed Name: \_\_\_\_\_ Date Application Signed \_\_\_\_\_

State of \_\_\_\_\_ ) ss.:

County of \_\_\_\_\_ )

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.

\_\_\_\_\_  
Notary Public  
My commission expires \_\_\_\_\_

\_\_\_\_\_  
Inventor's Signature (Seal) Date Assignment Signed: \_\_\_\_\_

\_\_\_\_\_  
Inventor's Typed Name: \_\_\_\_\_ Date Application Signed \_\_\_\_\_

State of \_\_\_\_\_ ) ss.:

County of \_\_\_\_\_ )

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.

\_\_\_\_\_  
Notary Public  
My commission expires \_\_\_\_\_