

FEB-09-2007(FRI) 16:14 MANNARA & KANG, P.C.
FORM PTO-1595 02-16-2007
1-31-92

FEB 09 2007 (FAX) 703 865 5150 P.010/013
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COVER SHEET

LY

Attorney Docket No. 200602330-1

1. Name of convey

Jeongkeun Lee
Sung-Ju Lee
Taekyoung Kwon

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

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

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): 1/23/07, 1/22/07, 1/23/07

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

If this document is being filed together with a new application, execution date of the application is: 10/31/06

A. Patent Application No.(s)

B. Patent No.(s)

Application No.: 11/590,148

Date Filed: Oct. 31, 2006

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

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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.

Ashok K. Mannava

Name of Person Signing

Signature

Feb 09, 2007

Date

Total number of pages including cover sheet, attachments, and document: 4

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PAGE 10/13 * RCVD AT 2/9/2007 3:36:11 PM [Eastern Standard Time] * SVR:USPTO-EFAXF-1/7 * DNIS:2738300 * CSID:703 865 5150 * DURATION (mm:ss):03:40

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PATENT APPLICATION

ATTORNEY DOCKET NO. 200602330-1

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:

ESTIMATING LINK INTERFERENCE AND BANDWIDTHFiling date: October 31, 2006Application No.: 11/890,148

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, 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 herunto set my/our hand(s) and seal(s):

Daehyung Jo Date Assignment Signed: Jan - 23 - 2007
Inventor's Signature (Seal)

Inventor's Typed Name: Daehyung Jo Date Application Signed: Jan - 23 - 2007

State of _____)
County of _____) ss.:

Before me this 23rd day of January, 2007, personally appeared Daehyung Jo 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.

Daehyung Jo
Notary Public
My commission expires: _____

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PATENT APPLICATION
ATTORNEY DOCKET NO. 200602330-1

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: 1/22/07
Inventor's Signature (Seal)

Inventor's Typed Name: Sung-Ju Lee Date Application Signed: 1/22/07

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:

Inventor's Signature (Seal) Date Assignment Signed: _____

Inventor's Typed Name: Tackyoung Kwan Date Application Signed: _____

State of _____)
County of _____) ss.:

Before me this _____ day of _____, personally appeared Tackyoung Kwan 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.:

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:

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

Page 2 of 2

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PATENT APPLICATION

ATTORNEY DOCKET NO. 200602330-1

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: Jan-23-2007
 Inventor's Signature (Seal)
 Inventor's Typed Name: Taekyoung Kwon Date Application Signed: Jan-23-2007
 State of _____)
) ss.:
 County of _____)

Before me this 23rd day of January, 2007, personally appeared Taekyoung Kwon 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.

Daehyung Jo
 Notary Public
 My commission expires: _____

 Date Assignment Signed: _____
 Inventor's Signature (Seal)
 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: _____

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

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