

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Shih-Yuan Wang</td> <td>07/28/2009</td> </tr> <tr> <td>Zhiyong Li</td> <td>07/28/2009</td> </tr> <tr> <td>Jingjing Li</td> <td>07/28/2009</td> </tr> <tr> <td>Huei Pei Kuo</td> <td>07/29/2009</td> </tr> <tr> <td>David A. Fattal</td> <td>07/28/2009</td> </tr> <tr> <td>Nobuhiko Kobayashi</td> <td>07/28/2009</td> </tr> </tbody> </table>		Name	Execution Date	Shih-Yuan Wang	07/28/2009	Zhiyong Li	07/28/2009	Jingjing Li	07/28/2009	Huei Pei Kuo	07/29/2009	David A. Fattal	07/28/2009	Nobuhiko Kobayashi	07/28/2009
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David A. Fattal	07/28/2009														
Nobuhiko Kobayashi	07/28/2009														
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															
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13383387</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13383387										
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Application Number:	13383387														
CORRESPONDENCE DATA															
Fax Number:	(970)778-4063														
Phone:	(541)715-8443														
Email:	terri.tuma@hp.com														
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>															
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:	Heather Ellis														

CH \$40.00 13383387

Total Attachments: 4

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

PATENT APPLICATION

ATTORNEY DOCKET NO. 200902309

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:

NANOWIRE-BASED SYSTEMS FOR PERFORMING RAMAN SPECTROSCOPY

Filing Date: July 30, 2009 Application No.: PCT/US2009/052308

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):

Shih-Yuan Wang
Inventor's Signature (Seal)

7/28/09
Date Assignment Signed

Shih-Yuan Wang
Inventor's Typed Name

7/28/09
Date Application Signed

State of _____)
County of _____) ss.:

Before me this day of _____, personally appeared Shih-Yuan 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
My Commission Expires:

DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION (continued)

PATENT APPLICATION

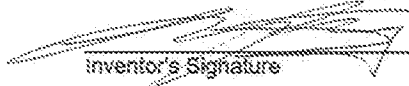
ATTORNEY DOCKET NO. 200902309

Zhiyong Li

CN

Full Name of Sole or Sixth Inventor (first, middle [if any], last)

Citizenship


Inventor's Signature

7/28/09
Date

Redwood City, CA

Inventor's Residence (City, State/Province, Country, Postal Code)

1501 Page Mill Road, Palo Alto, CA 94304-1100

Business/Mailing Address

Full Name of Sole or Seventh Inventor (first, middle [if any], last)

Citizenship

Inventor's Signature

Date

Inventor's Residence (City, State/Province, Country, Postal Code)

Business/Mailing Address

Full Name of Sole or Eighth Inventor (first, middle [if any], last)

Citizenship

Inventor's Signature

Date

Inventor's Residence (City, State/Province, Country, Postal Code)

Business/Mailing Address

Full Name of Sole or Ninth Inventor (first, middle [if any], last)

Citizenship

Inventor's Signature

Date

Inventor's Residence (City, State/Province, Country, Postal Code)

Business/Mailing Address

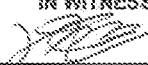
HEWLETT-PACKARD COMPANY
Intellectual Property Administrator
P.O. Box 272400
Fort Collins, Colorado 80527-2400

PATENT APPLICATION

ATTORNEY DOCKET NO. 200902309

ASSIGNMENT OF PATENT APPLICATION (cont.)

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


 07/28/2009
Inventor's Signature (Seal) Date Assignment Signed

Jingjing Li
Inventor's Typed Name Date Application Signed

State of)
) ss.:
County of)

Before me this _____ day of _____, personally appeared Jingjing Li 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

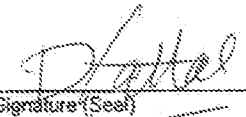
 07/29/2009
Inventor's Signature (Seal) Date Assignment Signed

Huipei Kuo
Inventor's Typed Name Date Application Signed

State of)
) ss.:
County of)

Before me this _____ day of _____, personally appeared Huipei Kuo 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

 7/28/09
Inventor's Signature (Seal) Date Assignment Signed

David A. Fattal
Inventor's Typed Name Date Application Signed

State of)
) ss.:
County of)

Before me this _____ day of _____, personally appeared David A. Fattal 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

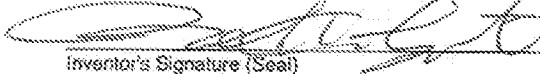
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Inventor's Signature (Seal)

7/28/09
Date Assignment Signed

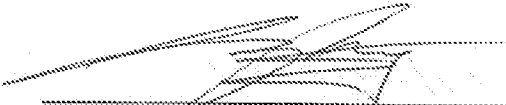
Nobuhiko Kobayashi
Inventor's Typed Name

7/28/09
Date Application Signed

State of _____)
County of _____) ss.: _____)

Before me this _____ day of _____, personally appeared Nobuhiko Kobayashi 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)

7/28/09
Date Assignment Signed

Zhiyong Li
Inventor's Typed Name

7/28/09
Date Application Signed

State of _____)
County of _____) ss.: _____)

Before me this _____ day of _____, personally appeared Zhiyong Li 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
My Commission Expires: _____