

① \$

12/21/2011

DEPARTMENT OF COMMERCE
Patent and Trademark Office

ATTORNEY DOCKET NO. 82259210



RE

103638248

1. Name of conveying party(ies):

Ke-Yan Liu
Liang Tang
Lei Wang
Wei Liu



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

HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.
11445 Compaq Center Drive West
Houston, TX 77070

Additional name(s) of conveying party(ies) attached? Yes No Additional name(s) and address(es) attached? Yes No

3. Nature of Conveyance:

Assignment Merger Change of Name Security Agreement Joint
 Other

12-19-11

Execution Date(s): 11/8/2011; 11/9/2011; 11/8/2011; 11/9/2011 respectively

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:

A. Patent Application No. (s)

Application No.: 13/258476

Date Filed: Sep 24, 2009

Confirmation No.:

B. Patent No.(s):

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
3404 E. Harmony Road
Mail Stop 35
Fort Collins, Colorado 80528

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

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.

Debbie Syrmis
Name of Person Signing

Debbie Syrmis
Signature

November 10, 2011
Date

Total number of pages including coversheet, attachments, and documents: 6

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

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

PATENT APPLICATION

RECORD ID: 82259210

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:

Particle Tracking Methods

Filing Date: September 22, 2011

Application No.: 13/258476

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 Record ID 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.

Ke-Yan Liu

2011-11-8

Inventor's Signature

Date Assignment Signed

Ke-Yan Liu

2011-11-8

Inventor's Typed Name

Date Application Signed

Inventor's Signature

Date Assignment Signed

Liang Tang

Inventor's Typed Name

Date Application Signed

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

PATENT APPLICATION

RECORD ID: 82259210

ASSIGNMENT OF PATENT APPLICATION (cont.)

Lei Wang
Inventor's Signature _____ Date Assignment Signed 8.11.2011

Lei Wang
Inventor's Typed Name _____ Date Application Signed 8.11.2011

Inventor's Signature _____ Date Assignment Signed _____

Wei Liu
Inventor's Typed Name _____ Date Application Signed _____

Inventor's Signature _____ Date Assignment Signed _____

Inventor's Typed Name _____ Date Application Signed _____

Inventor's Signature _____ Date Assignment Signed _____

Inventor's Typed Name _____ Date Application Signed _____

Inventor's Signature _____ Date Assignment Signed _____

Inventor's Typed Name _____ Date Application Signed _____

Inventor's Signature _____ Date Assignment Signed _____

Inventor's Typed Name _____ Date Application Signed _____

HEWLETT-PACKARD COMPANY
Intellectual Property Administrator
3401 E. Harmony Road
Mail Stop 35
Fort Collins, Colorado 80528

PATENT APPLICATION

RECORD ID: 82259210

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:

Particle Tracking Methods

Filing Date: September 22, 2011

Application No: 13/258476

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 Record ID 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.

Inventor's Signature

Date Assignment Signed

Ke-Yan Liu

Inventor's Typed Name

Date Application Signed


Inventor's Signature

Nov 09, 2011
Date Assignment Signed

Liang Tang

Inventor's Typed Name

Nov 09, 2011
Date Application Signed

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

PATENT APPLICATION

RECORD ID: 82259210

ASSIGNMENT OF PATENT APPLICATION (cont.)

Inventor's Signature

Date Assignment Signed

Lei Wang

Inventor's Typed Name

Date Application Signed



Inventor's Signature

2011.11.9
Date Assignment Signed

Wei Liu

Inventor's Typed Name

2011.11.9
Date Application Signed

Inventor's Signature

Date Assignment Signed

Inventor's Typed Name

Date Application Signed

Inventor's Signature

Date Assignment Signed

Inventor's Typed Name

Date Application Signed

Inventor's Signature

Date Assignment Signed

Inventor's Typed Name

Date Application Signed

Inventor's Signature

Date Assignment Signed

Inventor's Typed Name

Date Application Signed