# Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE:      | CORRECTIVE ASSIGNMENT   |  |
|-----------------------|---|--|
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the title of the invention previously recorded on Reel 018966 Frame 0600. Assignor(s) hereby confirms the transfer of Assignors' entire right, title & interest, incl. the right of priority in, to & under Application No. 11/701,014 |  |

#### **CONVEYING PARTY DATA**

| Name                    | Execution Date |
|-------------------------|----------------|
| Alexandre M. Bratkovski | 05/13/2007     |
| Shih-Yuan Wang          | 05/11/2007     |

#### **RECEIVING PARTY DATA**

| Name:           | HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. |
|-----------------|---|
| Street Address: | 20555 SH 249                              |
| City:           | Houston                                   |
| State/Country:  | TEXAS                                     |
| Postal Code:    | 77070                                     |

### PROPERTY NUMBERS Total: 1

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 11701014 |

### **CORRESPONDENCE DATA**

Fax Number: (801)531-9168

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 801-532-1922

Email: dneumann@traskbritt.com

Correspondent Name: Edgar R. Cataxinos

Address Line 1: 230 South 500 East, Suite 300
Address Line 4: Salt Lake City, UTAH 84102

| NAME OF OURNATTER       | Education Octobries |
|-------------------------|---------------------|
| ATTORNEY DOCKET NUMBER: | 2858.04-7388        |

NAME OF SUBMITTER: Edgar R. Cataxinos

Total Attachments: 7

PATENT REEL: 019800 FRAME: 0129

500350048

H \$40,00



PATENT REEL: 019800 FRAME: 0130 02-27-2007

# 

103375451

U.S. PTO 11/701014 01/31/2007

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

| Cher Execution Date(s): January 31, 2007  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: January 31, 2007  A. Patent Application No.:  Confirmation No.:  Date Filed:  Confirmation No.:  B. Patent No.(s):  II 70 I 0 I 4  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  8. 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.  Edgar R. Cataxinos  Name of Person Signing  Total number of pages including coversheet, attachments, and documents:  Documents to be recorded (including coversheet, attachments, and documents:  Documents to be recorded (including coversheet) should be faxed to (571) 273-0140, or mailed Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 2283-1450  Page 1 of   | TTORNEY DOCKET NO.  | 200503639-1                             |                |  | wen Gueet                               | ······································ |
|--|---|---|----------------|--|---|--|
| 1. Name of conveying party(lea): Abscardre M. Bratkovski Shih-Yuan Wang Additional name(s) of conveying party(lea) attached?   Yes   ElNo   Additional name(s) and address(es) attached?   Yes   ElNo   3. Nature of Conveyance:   Assignment   Merger   Change of Name   Security Agreement   Join   Join   Join  |   | RECO                                    | -              |  |   |  |
| Additional name(s) of conveying party(los) attached?   Yes   ElNo   Additional name(s) and address(es) ettached?   Yes   ElNo   Application   Yes   Ye |   |   | PAIEN          |  |   |  |
| Additional name(s) of conveying party(ies) stached?    Yes   ENo   Additional name(s) and address(es) attached?    Yes   ENO   Additional name(s) attached?    Yes   ENO   Application number(s) attached?    Yes   ENO   Application No.:   |   |   |                | 2. Name  | and address of receiving party(les):    |  |
| Additional name(s) of conveying party(les) stached?   Yes   ENo   Additional name(s) and address(es) attached?   Yes   ENo    3. Nature of Conveyance:   Assignment   Merger   Change of Name   Security Agreement   Join  | Alexandre M. Bratkovski   | i 🗸                                     |                | HEW  | ETT-PACKARD DEVELOPMENT C               | OMPANY, L.P.,                          |
| Additional name(s) of conveying party(les) stached?  | Shih-Yuan Wang 🗸  |   | -              |  |   |  |
| 3. Nature of Conveyance:  Assignment   |   |   | -              | Hous   | on, 1X 7/0/0                            |  |
| 3. Nature of Conveyance:  Assignment   |   |   |                |  |   |  |
| 3. Nature of Corneyance:    Assignment   |   |   |                |  |   |  |
| 3. Nature of Conveyance:  Sassignment   Merger   Change of Name   Security Agreement   Join  |   |   |                |  |   |  |
| 3. Nature of Conveyance:  Assignment   |   |   | :              |  |   |  |
| 3. Nature of Conveyance:  Assignment   |   |   |                |  |   |  |
| 3. Nature of Corneyance:    Assignment   |   |   |                |  |   |  |
| 3. Nature of Conveyance:  Sassignment   Merger   Change of Name   Security Agreement   Join  |   |   |                |  |   |  |
| Execution Date(a): January 31, 2007  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: January 31, 2007  A. Patent Application No.(s) Application No.: Date Filed: Confirmation No.: B. Patent No.(s):  Additional numbers attached? NO  5. Name and address of party to whom correspondence concerning document should be mailed:  7. Total number of applications and patents involved: Total number of pages including coversheet, attachments, and documents:  Edgar R. Catexinos Name of Person Signing Total number of pages including coversheet, attachments, and documents:  Documents to be recorded (including coversheet) should be faxed to (571) 273-0140, or mailed and page 1 of  Page 1 of  | Additional name(s) of convey  | ing party(ios) attached?                | Yes No         | Additiona  | i name(s) and address(es) attached?     | Yes X No                               |
| Cher Execution Date(s): January 31, 2007  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: January 31, 2007  A. Patent Application No.:  Confirmation No.:  Date Filed:  Confirmation No.:  B. Patent No.(s):  II 70 I 0 I 4  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  8. 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.  Edgar R. Cataxinos  Name of Person Signing  Total number of pages including coversheet, attachments, and documents:  Documents to be recorded (including coversheet, attachments, and documents:  Documents to be recorded (including coversheet) should be faxed to (571) 273-0140, or mailed Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 2283-1450  Page 1 of   | 3. Nature of Conveyance:  |   |                |  |   |  |
| Execution Date(s):January 31, 2007  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: January 31, 2007  A. Patent Application No.:  Confirmation No.:  Date Filed:  Confirmation No.:  B. Patent No.(s):  I  | <b>⊠</b> Assignment   | ☐Merger                                 | Change of      | / Name   | Security Agreement                      | □Joint                                 |
| 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: January 31, 2007  A. Patent Application No.:  Date Filed:  Confirmation No.:  B. Patent No.(s):  II 70 10 III  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  8. 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.  Edger R. Cataxinos Name of Person Signing Total number of pages including coversheet, attachments, and documents:  Documents to be recorded (including coversheet) should be faxed to (571) 273-0140, or mailed Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 2293-1450 Page 1 of  | Other   |   |                |  |   |  |
| 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: January 31, 2007  A. Patent Application No.:  Date Filed:  Confirmation No.:  B. Patent No.(s):  II 70 10 III  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  9. Statement and signature.  To the bast of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.  Edger R. Cataxinos Name of Person Signing Total number of pages including coversheet, attachments, and documents:  Documents to be recorded (including coversheet) should be faxed to (571) 273-0140, or mailed Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 2293-1450 Page 1 of   | ***************************************                                 |   |                |  |   |  |
| 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: January 31, 2007  A. Patent Application No.:  Date Filed:  Confirmation No.:  B. Patent No.(s):  II  | Evecution Date(s):Jenuary   | 31. 2007                                |                |  |   |  |
| if this document is being filed together with a new application, execution date of the application is: January 31, 2007  A. Patent Application No.:  Confirmation No.:  Date Filed:  Confirmation No.:  B. Patent No.(s):  II 70 1 0 1 4  Additional numbers attached? NQ  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  8. Deposit Account Number: D8-2025  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.  Edgar R. Cataxinos  Name of Person Signing  Total number of pages including coversheet, attachments, and documents:  Documents to be recorded (including coversheet) should be faxed to (571) 273-0140, or mailed Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 2283-1450  Page 1 of  |   |   |                |  |   | ·····                                  |
| A. Patent Application No.:  Application No.:  Confirmation No.:  B. Patent No.(s):  1/70/0/  Additional numbers attached? NO  5. Name and address of party to whom correspondence concerning document should be mailed:  7. Total Fee (37 CFR 3.41):\$40.00  Enclosed  Enclosed  Enclosed  X. Authorization to be charged to deposit account.  Fort Collins, Golorado 80527-2400  8. Deposit Account Number: 08-2025  9. Statement and signature.  To the bast of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.  Edger R. Cataxinos  Name of Person Signing  Total number of pages including coversheet, attachments, and documents:  Documents to be recorded (including coversheet) should be faxed to (571) 273-0140, or mailed Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 225 3-1450  Page 1 of   |   | •                                       | new englicativ | NA AYACU   | ion date of the application is: January | 31. 2007                               |
| Application No.:  Confirmation No.:  B. Patent No.(s):    1  |   |   | new abbuces    | J. 1, WAGOO                                      | or all approach.                        | 01, 220,                               |
| Additional numbers attached? NO  5. Name and address of party to whom correspondence concerning document should be mailed:  7. Total Fee (37 CFR 3.41):\$40.00  Records Manager intellectual Property Administration HEWLETT-PACKARD COMPANY P.O. Box 272400 Fort Collins, Colorado 80527-2400  9. Statement and signature.  To the bast of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.  Edger R. Cataxinos Signature  Total number of pages including coversheet, attachments, and documents:  Documents to be recorded (including coversheet) should be faxed to (571) 273-0140, or mailed Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22813-1450  Page 1 of   | • •   | ).(B)                                   |                |  |   |  |
| Additional numbers attached? NO  5. Name and address of party to whom correspondence concerning document should be mailed:  7. Total Fee (37 CFR 3.41):\$40.00  Records Manager intellectual Property Administration HEWLETT-PACKARD GOMPANY P.O. Box 272400 Fort Collins, Colorado 80527-2400  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.  Edger R. Cataxinos Name of Parson Signing Total number of pages including coversheet, attachments, and documents:  Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 2293-1450 Page 1 of  | Application No.:  |   | Date Filed:    |  | 11/100 1 11 1                           |  |
| 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  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.  Edgar R. Cataxinos Name of Person Signing Total number of pages including coversheet, attachments, and documents:  Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 2283-1450 Page 1 of   | Confirmation No.:   |   | B. Patent N    | io.(s):  | 11/10/019                               |  |
| 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  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.  Edgar R. Cataxinos Name of Person Signing Total number of pages including coversheet, attachments, and documents:  Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 2283-1450 Page 1 of   |   | and MC                                  |                |  | •                                       |  |
| concerning document should be mailed:  Records Manager Intellectual Property Administration HEWLETT-PACKARD COMPANY P.O. Box 272400 Fort Collins, Colorado 80527-2400  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.  Edgar R. Cataxinos Name of Person Signing Total number of pages including coversheet, attachments, and documents:  Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 2283-1450 Page 1 of   |   |   |                | 6 Total  | number of applications and patents is   | nvolved: 1                             |
| Records Manager Intellectual Property Administration HEWLETT-PACKARD COMPANY P.O. Box 272400 Fort Collins, Colorado 80527-2400  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.  Edgar R. Cataxinos Name of Person Signing Total number of pages including coversheet, attachments, and documents: 3  Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 2283-1450 Page 1 of  | <ol> <li>Name and address of page<br/>concerning document si</li> </ol> | any to whom corresp<br>hould be mailed: | Onderice       | <u></u>  |   |  |
| Intellectual Property Administration HEWLETT-PACKARD COMPANY P.O. Box 272400 Fort Collins, Colorado 80527-2400  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.  Edger R. Cataxinos Name of Person Signing Total number of pages including coversheet, attachments, and documents:  Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 2283-1450 Page 1 of  | <del>-</del>  |   |                | 7. 10tm  | rea (37 CFR 3.41)                       |  |
| HEWLETT-PACKARD COMPANY P.O. Box 272400 Fort Collins, Colorado 80527-2400 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.  Edger R. Cataxinos Name of Person Signing Total number of pages including coversheet, attachments, and documents:  Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 2283-1450 Page 1 of   |   | desiminates tion                        |                | <u> </u>   | Enclosed                                |  |
| P.O. Box 272400 Fort Collins, Colorado 80527-2400 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.  Edger R. Cataxinos Name of Person Signing Total number of pages including coversheet, attachments, and documents:  Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 2283-1450 Page 1 of   |   |   |                | Y Authorization to be charmed to denosit account |   |  |
| 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.  Edger R. Cataxinos Name of Person Signing Signature January 31, 2877  Total number of pages including coversheet, attachments, and documents:  Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 2283-1450  Page 1 of   |   | -0577-9400                              |                |  |   | =                                      |
| 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.  Edger R. Cataxinos Name of Person Signing Total number of pages including coversheet, attachments, and documents:  Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed fill Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 2283-1450 Page 1 of  |   |   | <del></del>    | o. Lapx  | All Account Number. De-2023             | <del>-</del>                           |
| Copy of the original document.    Edger R. Catexinos   | Statement and signature   | 9.                                      |                |  |   | #                                      |
| Edger R. Cetaxinos Name of Person Signing Total number of pages including coversheet, attachments, and documents:  Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 2293-1450 Page 1 of   | To the best of my knowl   | ledge and belief, the l                 | foregoing info | mation is  | true and correct and any attached co    | py is a true                           |
| Name of Person Signing  Total number of pages including coversheet, attachments, and documents:  Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 229 3-1450  Page 1 of   | copy of the original docu   | umant.                                  |                |  |   | 욅                                      |
| Name of Person Signing  Signature  Total number of pages including coversheet, attachments, and documents:  Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 229 3-1450  Page 1 of  |   |   | 61 1           | 16   |   | 3                                      |
| Name of Person Signing  Signature  Total number of pages including coversheet, attachments, and documents:  Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 229 3-1450  Page 1 of  | Edgar R. Catavi   | inos                                    | Madd           | Will   | January 31.                             | 2 <b>5</b> 7 S                         |
| Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 229 3-1450  Page 1 of  | Name of Person S  | igning                                  | Sign           | atule  |   | <del>ड</del> ्रेड                      |
| Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 229 3-1450  Page 1 of  | Total nu  | umber of pages inclu                    | ding covershe  | et, attachr                                      | nents, and documents: 3                 | 8 8                                    |
| Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22 3-1450 Page 1 of  |   |   |                |  | · · · · · · · · · · · · · · · · · · ·   | . <b>#</b>                             |
| Pege 1 of Control of State of  |   |   |                |  |   |  |
| 3.5  | The second of the second of the second                                  |   |                |  |   | <u> </u>                               |
| Rev 1000 (Rechtach)  |   |   | rage           | 107  |   | 88                                     |
| the same of the sa | Rev 10/06 (RecsAsgn)  |   |                |  | ,                                       | § €                                    |



HEWLETT-PACKARD COMPANY Intellectual Property Administrator P.O. Box 272400 Fort Collins, Colorado 60527-2400

PATENT APPLICATION

ATTORNEY DOCKET NO. \_\_\_\_\_\_ 200503639-1\_

## ASSIGNMENT OF PATENT APPLICATION

IWe, the undersigned (each) have egreed and hereby agree to assign to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Pertnership hereing its principal place of business in Houston, Texas, (hereinafter HPDC), in furtherance of my/our obligations in the Hewlett-Packard Company and its subsidiaries and affiliates, and do hereby sasign and transfer to HPDC, its successors and assigns, the entire right, the control of the Legisland Company and the subsidiaries and affiliates.

| Filing Date: January 31, 2007  |   | Application No. 117701.014  |
|--|---|---|
| and the Invantion(s) and improve P's), divisionals, and renewals of Petent of the United States and reissues, or reexeminations, or a live additionally author; held and anjoyed by HPDC, its elterms for which said Letters Pate same would have been held and AND live hereby covern we have not executed and will not that live will, each time a request necessary or desirable to perfect necessary or the notifice, all how the necessary or the necessary of desirable to all held necessary or the necessary of the necessary of the necessary or desirable to all held necessary or the necessary of the necessa | and substitutes for said of countries foreign their skensions of said Letters is the MPDC to file applicable uccessors, assigns, nominant respectively may be gongot by me/us had the like to well ingot execute any agreement is made, and without unit the litle to said invention, assigns, nontriess or the litle to said invention, assigns, nontriess or the litle to said invention and proceedings, to sign and foreign applications, to DDC, its successors, essifit, proper patent protect which may be incurred the contries foreign to the or ownerits), including a result of the application and direct the attorneys of attorneys doctor member. | these of legal representatives, to the full and of the term of prented, released or extended, as fully and entirely as the sassignment, and transfer not been made; in to convey the entire interest herein assignment and agreed to convey the entire interest herein assignment and agreed deelay, execute and deliver all such papers as may be only or improvement(s), said application and said better egger representatives, and tiwe agree to communicate to invention(s) or improvement(s), said application and said the entire egger representatives, and tiwe agree to communicate to invention(s) or improvement(s), said application and said liberal papers, to execute all disclaimers and divisionals, make all rightful paths and declarations, and generally to egger, nominees and legal representatives to obtain and on for said invention(s) or improvement(s) in any and all ymerus in lending such cooperation and assistance are necessary in the United States whose duty it is to issue patents on of the United States whose duty it is to issue patents on of the entire right, title and interest, any and all Letters patent of the United States which may foresaid, in accordance with the terms of this easignment. |
| IN WITHESS WHEREOF, W  | we hereunto set my/our ha   | nd(s) and seal(s):  |
| KINGING  | 2/1/2   | MAY 13, 2007  Date Assignment Signed  WAY 13, 2007  |
| Inventor's Signature (Seal)  |   | Date Azeignment Signed  |
| Alexandre M. Bratkovski  |   | WAY 13 DANY   |
| Inventors Typed Name   |   | Date Application Signed   |
| State of   | )<br>) 64.:   |   |
| County of  | ) in  |   |
| Before me this day of  | , personally appeared   | Alexendre M. Bratkovski who is personally   |
| known or proved to me on the basis<br>easignment to be his/her free act and di   | of satisfactory authorize to  | Alexendre M. Bratkovski who is personally be the person who scknowledged the foregoing instrument of  |
| Tev (DOG(Assignmens)   | Page 1 o  | Notary Fulls: My Committation Expires:  |

**PATENT** 

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

#### **PATENT APPLICATION**

ATTORNEY DOCKET NO. 200503639-1

## ASSIGNMENT OF PATENT APPLICATION (cont.)

| - Sul man   | Why  | $C/I/I \bullet I$                    |  |
|---|--|--------------------------------------|--|
| inventor's Signature (Sea)  | 1  | Date Assignment Signed               |  |
| Shih-Yuan Wang  |  | 5/11/01                              |  |
| inventor's Typed Name   |  | Date Application Signed              |  |
| State of  | <b>)</b> .   |                                      |  |
| County of   | ) ss.:<br>)  |                                      |  |
| Before me this day of   | , personally appeared  | Shih-Yuan Wang                       | who is personal  |
| known or proved to me on the basis  | of satisfactory evidence to be   | the person who acknowledged the fo   | regoing Instrument o   |
| issignment to be his/her free act and o   | leed.  | -                                    | *  |
|   |  | Notery Public                        | <del></del>  |
|   |  | My Commission Expires:               |  |
|   |  |                                      |  |
|   |  |                                      |  |
| nventor's Signature (Seal)  |  | Date Assignment Signed               | and the second section of the sectio |
| nventor's Typed Name  | A de constitución de constituc | Date Application Signed              | <del></del>  |
| niušu uz.   |  |                                      |  |
| State of  | )  |                                      |  |
| era totumos for fine  | ) sa.:   |                                      |  |
| ounty of  | )  |                                      |  |
| efore me thisday of   | _ personally appeared  | <u> </u>                             | who is personally  |
| nown or proved to me on the basis of<br>saignment to be his/her free act and do | of satisfactory evidence to be t<br>sed.   | he person who acknowledged the for   | egoing instrument of   |
|   |  | Notary Public My Commission Expires: | **************************************   |
|   |  |                                      |  |
|   |  |                                      |  |
| ventor's Signature (Seal)   |  | Date Assignment Signed               |  |
| ventor's Typed Name   |  | Book of the House Court              |  |
| towar a skipun tensio   |  | Date Application Signed              |  |
| ale of  | ) <sup>;</sup>   |                                      |  |
|   | ) ss.:   |                                      |  |
| ounty of  | ĵ  |                                      |  |
| fore me this day of   | , personally appeared  |                                      | who is personally  |
| own or proved to me on the basis o<br>signment to be his/her free act and de    | f satisfactory evidence to be the  | e person who acknowledged the fore   | going instrument of  |
|   |  | Notary Public                        |  |
|   | 5 A A A A A A A -  | My Commission Expires:               |  |

PATENT

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

Rev 10/05(Assignment)

PATENT APPLICATION

ATTORNEY DOCKET NO. \_ 200503639

### **ASSIGNMENT OF PATENT APPLICATION**

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD

| Texas, (hereinafter HPDC), in furtherance of my/or<br>subsidiaries and affiliates, and do hereby assign and tra  | rthership having its principal place of business in Houston,<br>ur obligations to the Hewlett-Packard Company and its<br>ensfer to HPDC, its successors and assigns, the entire right,<br>I under an application for Letters Patent of the United States  |
|--|---|
| PLASMONIC NANOMETER SIZE SHUT  | TER FOR CONTROLLING LIGHT FLUX  |
|  |   |
| Filing Date:   | _ Application No.:  |
| P's), divisionals, and renewals of and substitutes for sa<br>Patent of the United States and of countries foreign the<br>reissues, or reexaminations, or extensions of said Letter<br>I/we additionally authorize HPDC to file applications<br>held and enjoyed by HPDC, its successors, assigns, no   | ein, and any and all continuations, continuations-in-part (C-lid application for said Letters Patent, and any and all Letters parent which may be granted thereon or therefore; and any as Patent, at ions in my/our name for Letters Patent in any country, to be minees or legal representatives, to the full end of the term or e granted, reissued or extended, as fully and entirely as the  |
| same would have been held and enjoyed by me/us had   |   |
| AND I/we hereby covenant that I/we have full we have not executed and will not execute any agreem that I/we will, each time a request is made, and without necessary or desirable to perfect the title to said inver Patent, to HPDC, its successors, assigns, nominees of HPDC, or to its nominee, all known facts respecting structures Patent, to testify in any legal proceedings, to signontinuations, C-I-P's, reissue and foreign applications, do everything possible to aid HPDC, its successors, enforce, for its or their own benefit, proper patent protocountries provided the expenses which may be incurred paid by HPDC;  AND I/we hereby authorize and request the Cand any official of any country or countries foreign. | right to convey the entire interest herein assigned, and that I/ tent in conflict herewith, and I/we further covenant and agree undue delay, execute and deliver all such papers as may be ntion(s) or improvement(s), said application and said Letters or legal representatives, and I/we agree to communicate to original invention(s) or improvement(s), said application and said in all lawful papers, to execute all disclaimers and divisionals, to make all rightful oaths and declarations, and generally to assigns, nominees and legal representatives to obtain and ection for said invention(s) or improvement(s) in any and all and by me/us in lending such cooperation and assistance are commissioner of Patents and Trademarks of the United States to the United States whose duty it is to issue patents on nee of the entire right, title and interest, any and all Letters |
|  |   |
| be issued and granted on or as a result of the application lowe further authorize and direct the attorneys   | g any and all Letters Patent of the United States which may<br>in aforesaid, in accordance with the terms of this assignment,<br>is of record to insert the serial number and filing date of said<br>are 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/ou  | r hand(s) and seal(s):    31   2007   |
| Inventor's Signature (Seal)  | Date Assignment Signed  |
| macinor a definition (deep)  | Cate Adalgiment Oighed  |
| Alexandre M. Bratkovski  | 1/31/2007   |
| Inventor's Typed Name  | Date Application Signed   |
|  | •   |
| State of ) ) >5.::   |   |
| County of )  |   |
| Before me thisday of, personally appeared  | d Alexandre M. Bratkovski who is personally   |
|  | e to be the person who acknowledged the foregoing instrument of   |
|  | Notary Public   |
| n  | My Commission Expires:  |

Page 1 of 2



### PATENT APPLICATION

ATTORNEY DOCKET NO. 200503639

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

| IN WITNESS WHEREOF, I/we   | hereunto set my/our hand(s            | i) and seal(s):   |
|--|---------------------------------------|---|
| Such mein  | While                                 | [/31[0]   |
| Inverter's Signature (Stal)  |                                       | Date Assignment Signed                                  |
| Shih-Yuan Wang   |                                       | 1/31/0/   |
| Inventor's Typed Name  | # Committee                           | Date Application Signed                                 |
| State of   | )<br>} ss.:                           |   |
| County of  | )                                     |   |
| Before me this day of  | , personally appeared                 | Shih-Yuan Wang who is personally                        |
| known or proved to me on the basis of assignment to be his/her free act and dee  | satisfactory evidence to be I         | the person who acknowledged the foregoing instrument of |
|  | · ·                                   | 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 thisday of   | , personally appeared                 | who is personally                                       |
| known or proved to me on the basis of assignment to be his/her free act and dee  | satisfactory evidence to be t<br>d.   | the person who acknowledged the foregoing instrument of |
|  |                                       | Nolary Fublic   |
|  |                                       | My Commission Expires:                                  |
|  |                                       |   |
| Inventor's Signature (Seal)  |                                       | Date Assignment Signed                                  |
| Inventor's Typed Name  |                                       | Date Application Signed                                 |
|  |                                       |   |
| State of   | )                                     |   |
| County of  | ) ss.:<br>)                           |   |
| Before me this day of  | personally appeared                   | who is personally                                       |
|  | satisfactory evidence to be the       | he person who acknowledged the foregoing instrument of  |
|  |                                       | Notary Public   |
| Rev 19/06(Assignment)  | Page 2 of 2                           | My Commission Expires:                                  |
| LAND TONOMINE SERVICE STATE OF THE PROPERTY OF |                                       |   |

PATENT REEL: 019800 FRAME: 0135

**RECORDED: 09/07/2007**