#### U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

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| lame of conveying pa   | rty(ies):   |  | 2. Name and  | address of receiving party(ies)   | :  |
| Qiangfei Xia HEWLETT-PACKARD DEVELOPMENT COMPAN  |   |  | ompany, L.P.   |   |  |
| Xuema Li   |   |  | 11445 Compaq Center Drive West<br>Houston, TX 77070  |   |  |
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| Nature of Conveyand  | e:  | 🛄 Change o   | of Name  | Security Agreement  | 🗖 Joint  |
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| xecution Date(s):04/16   | 2100· 05/05/09· 04/2  | 0/09   |  |   |  |
| Application Date(s).04/10  | ) or patent number(   | s):  |  |   |  |
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| A. Patent Application  | ing filed together wi   | ith a new applicati  | ion, execution<br>1: April 20, 200   |   |  |
| A. Patent Application<br>Application No.:  | ing filed together wi<br>No.(s)<br>12/426,647   | ith a new applicati  | 1: April 20, 200   |   |  |
| A. Patent Application<br>Application No.:<br>Confirmation No.:   | ing filed together wi<br>No.(s)<br>12/426,647<br>5333   | ith a new applicati<br>Date Filed                              | 1: April 20, 200   |   |  |
| A, Patent Application<br>Application No.:<br>Confirmation No.:<br>Additional numbers att   | ng filed together wi<br>No.(s)<br>12/426,647<br>5333<br>ached? <u>NO</u>  | ith a new applicati<br>Date Filed<br>B. Patent                 | 1: April 20, 200<br>No.(s);  | 09  | ts involved: 1   |
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| A. Patent Application<br>Application No.:<br>Confirmation No.:<br>Additional numbers att<br>Name and address of<br>concerning documer<br>Records Manager<br>Intellectual Propert<br>HEWLETT-PACKAI   | ng filed together wi<br>No.(s)<br>12/426,647<br>5333<br>ached? <u>NO</u><br>of party to whom cor<br>t should be mailed:<br>ty Administration  | ith a new applicati<br>Date Filed<br>B. Patent I               | t: April 20, 200<br>No.(s):<br>6. Total nur<br>7. Total Fea<br>Enc<br>Enc  | 09<br>mber of applications and paten<br>e (37 CFR 3.41):\$40<br>closed<br>thorization to be charged to de   | .00  |
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### PATENT REEL: 022896 FRAME: 0861

PATENT APPLICATION

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

ATTORNEY DOCKET NO. \_

2<u>00802619-1</u>

#### 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:

#### MEMRISTIVE DEVICE WITH A BI-METALLIC ELECTRODE

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|----------------|------|----------|-----------------|---------------------|------------|-----------------------------|-------------|
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| t mild reserve |      |          | t forth therein | and any and all con | finuations | continuations in            | -part (C-i- |

and the invention(s) and improvement(s) set forth therein, and any and all continuations, communications of part (one 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 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 hed 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 caths and declarations, and generally to do everything possible to ald 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 aforesald, 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): 4/10/200                          | 7  |
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| Inventor's Signature (Seal)   |   | Date Assignment Bigned                         |  |
| Qiangfei Xia<br>Inventor's Typed Name   |   | 4/16/2009<br>Date Application Signed           |  |
| State of  | )<br>) ss.:   |  |  |
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| Before me thisday of<br>known or proved to me on the b<br>assignment to be his/her free act a | , personally appeared<br>esis of satisfactory evidence to be t<br>and deed. | Olengfei Xia<br>he person who acknowledged the | who is personally<br>foregoing instrument of |
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Rev 10/08 (Assignment)

Page 1 of 2

PATENT REEL: 022896 FRAME: 0862

| WLETT-PACKARD COMPANY<br>eliactual Property Administrator                  |  |  |                         |
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| O. Box 272400  |  | ATTORNEY DOCKET NO.                    | 200802619-1             |
| rt Collins, Colorado 80527-2400  |  | u (CATION (cont.)                      |                         |
| ASSIGNME   | INT OF PATENT APP                      |  |                         |
| INWITNESS WHEREOF, I'we hereu  | into set my/our hend(s) a              | nd seal(s):                            | <b>`</b>                |
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| ventor's Signature (Seal)  |  | Date Assignment Signed                 | l.                      |
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| nventor's Signature (Seal)   |  | Date Assignment Stoned<br>April /      | 20/2029                 |
| ianhua Yang  |  | Date Application Signed                |                         |
| riventor's Typed Name  |  | Con White and the                      |                         |
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| Inventor's Signature (Seal)<br>Inventor's Typed Name                       |  | -                                      |                         |
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| Inventor's Typed Name<br>State of  | )<br>) 35.:                            | -                                      |                         |
| Inventor's Typed Name<br>State of<br>County of                             | ý                                      | -                                      | who is persona          |
| Inventor's Typed Name<br>State of<br>County of<br>Before me this day of, P | )<br>)<br>)                            | Date Application Signed                |                         |
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| Inventor's Typed Name<br>State of<br>County of<br>Before me this day of, P | )<br>)<br>)                            | Date Application Signed                |                         |

# RECORDED: 07/01/2009

## PATENT REEL: 022896 FRAME: 0863