

PATENT ASSIGNMENT

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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>Yu Hong Jeon</td> <td>09/30/2010</td> </tr> <tr> <td>David Cann</td> <td>09/30/2010</td> </tr> <tr> <td>Eric Patterson</td> <td>09/30/2010</td> </tr> <tr> <td>Parkpoom Jarupoom</td> <td>09/30/2010</td> </tr> <tr> <td>Brady Gibbons</td> <td>09/30/2010</td> </tr> <tr> <td>Peter Mardilovich</td> <td>09/30/2010</td> </tr> </tbody> </table>		Name	Execution Date	Yu Hong Jeon	09/30/2010	David Cann	09/30/2010	Eric Patterson	09/30/2010	Parkpoom Jarupoom	09/30/2010	Brady Gibbons	09/30/2010	Peter Mardilovich	09/30/2010
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RECEIVING PARTY DATA															
<table border="1"> <tr> <td>Name:</td> <td>Hewlett-Packard Development Company, L.P.</td> </tr> <tr> <td>Street Address:</td> <td>11445 Compaq Center Drive West</td> </tr> <tr> <td>City:</td> <td>Houston</td> </tr> <tr> <td>State/Country:</td> <td>TEXAS</td> </tr> <tr> <td>Postal Code:</td> <td>77070</td> </tr> </table>		Name:	Hewlett-Packard Development Company, L.P.	Street Address:	11445 Compaq Center Drive West	City:	Houston	State/Country:	TEXAS	Postal Code:	77070				
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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>13819946</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13819946										
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CORRESPONDENCE DATA															
Fax Number: 9707784063 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: (541)715-8443 Email: pto.assignments@hp.com 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:	Terri Walker														
Total Attachments: 3 source=83204381-Assignment#page1.tif source=83204381-Assignment#page2.tif source=83204381-Assignment#page3.tif															

CH \$40.00 13819946

HEWLETT-PACKARD COMPANY
Intellectual Property Administrator
3404 E. Harmony Road
Mail Stop 35
Fort Collins, Colorado 80530

PATENT APPLICATION

ATTORNEY DOCKET NO. 201001588-

ASSIGNMENT OF PATENT APPLICATION

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:

LEAD-FREE PIEZOELECTRIC MATERIALS WITH ENHANCED FATIGUE RESISTANCE

Filing Date: February 28, 2013

Application No.: 13/819946

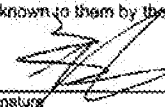
and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for said Letters Patent, and any and all Letters Patent of the United States and of countries foreign therein which may be granted thereon or therefore; and any reissue, 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.

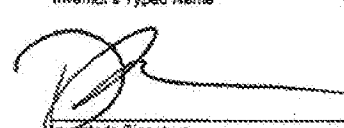
I/we further authorize and direct the attorneys of record to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.


Inventor's Signature

Yu Hong JEON
Inventor's Typed Name

9/30/2010
Date Assignment Signed

9/30/2010
Date Application Signed


Inventor's Signature

David CANN
Inventor's Typed Name

9/30/2010
Date Assignment Signed

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HEWLETT-PACKARD COMPANY
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3454 S. Harmony Road
Mail Stop 35
Fort Collins, Colorado 80525

PATENT APPLICATION

ATTORNEY DOCKET NO. 201001588-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

Eric Patterson
Inventor's Signature
9/30/2010
Date Assignment Signed

Eric PATTERSON
Inventor's Typed Name
9/30/2010
Date Application Signed

mona jarupoom
Inventor's Signature
9/30/2010
Date Assignment Signed

Parkpoom JARUPOOM
Inventor's Typed Name
9/30/2010
Date Application Signed

Brady Gibbons
Inventor's Signature
30 September 2010
Date Assignment Signed

Brady GIBBONS
Inventor's Typed Name
30 September 2010
Date Application Signed

Inventor's Signature
Date Assignment Signed

Petar MARDILOVICH
Inventor's Typed Name
Date Application Signed

Inventor's Signature
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Eric PATTERSON

Inventor's Typed Name

Date Application Signed

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Parkpoom JARUPOOM

Inventor's Typed Name

Date Application Signed

Inventor's Signature

Date Assignment Signed

Brady GIBBONS

Inventor's Typed Name

Date Application Signed

Inventor's Signature

Date Assignment Signed

Peter MARDILOVICH

Inventor's Typed Name

September 30th, 2010

Date Assignment Signed

September 30th, 2010

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