

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>Chris Knutson</td> <td>09/27/2010</td> </tr> <tr> <td>Rick Presley</td> <td>09/27/2010</td> </tr> <tr> <td>John Wager</td> <td>09/27/2010</td> </tr> <tr> <td>Douglas A. Keszler</td> <td>01/07/2011</td> </tr> <tr> <td>Randy Hoffman</td> <td>09/29/2010</td> </tr> </tbody> </table>		Name	Execution Date	Chris Knutson	09/27/2010	Rick Presley	09/27/2010	John Wager	09/27/2010	Douglas A. Keszler	01/07/2011	Randy Hoffman	09/29/2010
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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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<table border="1"> <tr> <td>Name:</td> <td>Oregon State University</td> </tr> <tr> <td>Street Address:</td> <td>312 Kerr Administration Building</td> </tr> <tr> <td>City:</td> <td>Corvallis</td> </tr> <tr> <td>State/Country:</td> <td>OREGON</td> </tr> <tr> <td>Postal Code:</td> <td>97331-2140</td> </tr> </table>		Name:	Oregon State University	Street Address:	312 Kerr Administration Building	City:	Corvallis	State/Country:	OREGON	Postal Code:	97331-2140		
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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												

CH \$40.00 13704012

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Address Line 2:	Intellectual Property Administration
Address Line 4:	Fort Collins, COLORADO 80528

NAME OF SUBMITTER:	Julia Church Dierker
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Total Attachments: 5

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

ATTORNEY DOCKET NO: 201000421-1

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) and The STATE OF OREGON acting by and through the STATE BOARD of HIGHER EDUCATION on behalf of OREGON STATE UNIVERSITY, having its principal place of business in Corvallis, Oregon, (hereinafter OSU) in furtherance of my/our obligations to the Hewlett-Packard Company or Oregon State University and its subsidiaries and affiliates, and do hereby assign and transfer to HPDC and OSU jointly, 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:

THIN FILM TRANSISTORS

Filing Date: July 2, 2010 Application No: PCT/US2010/040924

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 and OSU to file applications in my/our name for Letters Patent in any country, to be held and enjoyed by HPDC and OSU, 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 and OSU, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to HPDC and OSU, 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 and OSU, 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 OSU;

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 and OSU, 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 (Seal)

Chris Knutson

Inventor's Typed Name

9-27-2010

Date Assignment Signed

7-1-2010

Date Application Signed

ATTORNEY DOCKET NO: 201000421-1

<u>Rick Presley</u> Inventor's Signature (Seal)	<u>9-27-2010</u> Date Assignment Signed
<u>Rick Presley</u> Inventor's Typed Name	<u>6/30/2010</u> Date Application Signed
<u>see other sheet</u> Inventor's Signature (Seal)	<u>6/30/2010</u> Date Assignment Signed
<u>John Wager</u> Inventor's Typed Name	<u>6/30/2010</u> Date Application Signed
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<u>Douglas Keszler</u> Inventor's Typed Name	<u>6/30/2010</u> Date Application Signed
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HEWLETT-PACKARD COMPANY
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Fort Collins, Colorado 80528

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ASSIGNMENT OF PATENT APPLICATION (cont.)

see other sheet

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Rick Presley

Inventor's Typed Name



Inventor's Signature (Seal)

John Wager

Inventor's Typed Name

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Randy Hoffman

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27 Sept. 2010

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John Wager

Inventor's Typed Name

6/30/2010

Date Application Signed

DOUGLAS A KESZLER

Inventor's Signature (Seal)

7 JAN 2011

Date Assignment Signed

Douglas Keszler

Inventor's Typed Name

6/30/2010

Date Application Signed

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Douglas Keszler

6/30/2010

Inventor's Typed Name

Date Application Signed


Inventor's Signature (Seal)

29 September 2010

Date Assignment Signed

Randy Hoffman

6/30/2010

Inventor's Typed Name

Date Application Signed

Inventor's Signature (Seal)

Date Assignment Signed

Inventor's Typed Name

Date Application Signed