

# PATENT ASSIGNMENT

Electronic Version v1.1

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Hans S. Cho	04/25/2008
David A. Fattal	04/29/2008
Nathaniel J. Quitoriano	04/25/2008
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Hewlett-Packard Development Company, L.P.
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<b>City:</b>	Houston
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77070
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12262451
<b>CORRESPONDENCE DATA</b>	
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<b>Correspondent Name:</b>	Hewlett-Packard Company
<b>Address Line 1:</b>	3404 E. Harmony Road MS 35
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<b>NAME OF SUBMITTER:</b>	Heather Ellis
<b>Total Attachments: 2</b> source=200702988-2jan27#page1.tif source=200702988-2jan27#page2.tif	

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**PATENT**  
**REEL: 023858 FRAME: 0809**

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

PATENT APPLICATION

200702988-2

ATTORNEY DOCKET NO. 200702988-1

### 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), 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:

# PLASMON ENHANCED NANOWIRE LIGHT EMITTING DIODE

Filing Date: October 31, 2008

Application No.: 12/262451

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.

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):

**Inventor's Signature (Seal)**

Date Assignment Signed \_\_\_\_\_

HANS S. CHO

**Inventor's Typed Name**

Date Application Signed \_\_\_\_\_

State of

1

155.

County of \_\_\_\_\_

1

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared HANS S. CHO who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.

Notary Public  
My Commission Expires:

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

PATENT APPLICATION

200702988-2

ATTORNEY DOCKET NO. 200702988-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):

[Signature]  
Inventor's Signature (Seal)

4/29/08  
Date Assignment Signed

DAVID A. FATTAL

Inventor's Typed Name

4/29/08  
Date Application Signed

State of )

) ss.:

County of )

Before me this \_\_\_\_ day of \_\_\_\_\_, personally appeared DAVID A. FATTAL who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.

Notary Public

My Commission Expires: \_\_\_\_\_

[Signature]  
Inventor's Signature (Seal)

4/25/08  
Date Assignment Signed

NATHANIEL J. QUITORIANO

Inventor's Typed Name

4/25/08  
Date Application Signed

State of )

) ss.:

County of )

Before me this \_\_\_\_ day of \_\_\_\_\_, personally appeared NATHANIEL J. QUITORIANO who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.

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 this \_\_\_\_ day of \_\_\_\_\_, personally appeared \_\_\_\_\_ who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.

Notary Public

My Commission Expires: \_\_\_\_\_