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PATENTS	Attorney Docket No. 200316104-1
<ol> <li>Name of conveying party(ies);</li> </ol>	2. Name and address of receiving party(ies):
Chien-Hua Chen	HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.
Murali Chaparala	20555 SH 249
Robert Bicknell	Houston, TX 77070
Additional name(s) of conveying party(ies) attachedYesN	o Additional name(s) & address(es) attached?Yes _X No
3. Nature of Conveyance:	
X Assignment Merger	Change of Name
Security Agreement Other	
Execution Data(s): 2/21/04: 2/21/04: 2/24/04	
Execution Date(s): 3/31/04; 3/31/04; 3/21/04 respecting.  4. Application number(s) or patent number(s):	vely
If this document is being filed together with a new app	lication, execution date of the application is:
A. Patent Application No.(s)	B. Patent No.(s)
Application No.: 10/819,158 Date Filed: A	Apr 07, 2004
Confirmation No.: Additional numl	bers attached? NO
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
Records Manager	7. Total Fee (37 CFR 3.41): \$40.00
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PATENT APPLICATION ATTORNEY DOCKET NO. 200316104-1

## 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:

A POLARIZING PHOTONIC BAND GAP SYSTEM	
Filing date: 4/7/64	Application No.: 10/8/9/58
continuations-in-part (C-I-P's), di Letters Patent, and any and all Le	provement(s) set forth therein, and any and all continuations, visionals, and renewals of and substitutes for said application for said atters Patent of the United States and of countries foreign thereto which for; and any reissues, or reexaminations, or extensions of said Letters
country, to be held and enjoyed the full end of the term or terms	HPDC to file applications in my/our name for Letters Patent in any by HPDC, its successors, assigns, nominees or legal representatives, to for which said Letters Patent respectively may be granted, reissued or as the same would have been held and enjoyed by me/us had this n made;
that I/we have not executed and covenant and agree that I/we will deliver all such papers as may improvement(s), said application legal representatives, and I/we respecting said invention(s) or im legal proceedings, to sign all law C-i-P's, reissue and foreign applice everything possible to aid HPDC, and enforce, for its or their own legal proceedings.	at I/we have full right to convey the entire interest herein assigned, and I will not execute any agreement in conflict herewith, and I/we further II, each time a request is made, and without undue delay, execute and be necessary or desirable to perfect the title to said invention(s) or and said Letters Patent, to HPDC, its successors, assigns, nominees or agree to communicate to HPDC, or to its nominee, all known facts provement(s), said application and said Letters Patent, to testify in any wful papers, to execute all disclaimers and divisionals, continuations, cations, to make all rightful oaths and declarations, and generally to do, its successors, assigns, nominees and legal representatives to obtain benefit, proper patent protection for said invention(s) or improvement(s) ed the expenses which may be incurred by me/us in lending such all by HPDC;
States and any official of any coupatents on applications as afores, any and all Letters Patent for said	and request the Commissioner of Patents and Trademarks of the United centry or countries foreign to the United States whose duty it is to issue aid, to issue to HPDC, as assignee of the entire right, title and Interest, it invention(s) or improvement(s), including any and all Letters Patent of issued and granted on or as a result of the application aforesaid, in assignment.
said application now identified by	ect the attorneys of record to insert the serial number and filing date of the attorney docket number and title set forth above as soon as the n to them by the United States Patent and Trademark Office.
IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):	
C 9222	Date Assignment Signed: March 31, 2004
Inventor's Signature (Seal)	Mac \ Di Den e
Inventor's Typed Name: Chien-Hua CHEN	Date Application Signed: MAICh 81, 2009
State of	) }\$s.:
County of	)
Before me this day of, personally appeared <u>Chien Nos CHEN</u> 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:

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(Use Page Two For Additional Inventor(s) Signature(a))

PATENT 2

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

IN WITNESS WHEREOF, I/we hereu	unto set my/our hand(s) and seal(s):
Mulal kaha	Date Assignment Signed: 2 21 2054
Inventor's Signature (Seal)	Date Assignment agreet.
Inventor's Typed Name: Murali CHAPARAL	Date Application Signed: 321/2004
State of	)
County of	) <del>55.:</del> )
	, personally appearedwho is basis of satisfactory evidence to be the person who acknowledged the foregoing act and deed.
. 1	Natary Public  My commission expires:
Rut Billion Inventor's Signature (Seal)	Oate Assignment Signed: 3/3//04
Inventor's Typed Name: Robert BICKNELL	Date Application Signed: 3/3//0 4
State of	)
County of	) ss.: )
	personally appeared <u>Robert BICKNELL</u> who is basis of satisfactory evidence to be the person who acknowledged the foregoing act and deed.
	Notaty Public My commission expires:
	Date Assignment Signed:
nventor's Signature (Seal)	
nventor's Typed Name:	Date Application Signed:
itate of	) } ss.;
County of )	1
Before me this day of ersonally known or proved to me on the estrument of assignment to be his/har free ac	, personally appeared who is basis of satisfactory evidence to be the person who acknowledged the foregoing and deed.
	Notary Public My commission expires:

(Use Page Three For Additional Inventor(s) Signature(s))

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PATENT REEL: 014613 FRAME: 0431

**RECORDED: 05/10/2004**