U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

ATTORNEY DOCKET NO	200903735-1	_		Patent and Tra	ademark Office
	RECO	ORDATION F	ORM COV	/ER SHEET	
		PATEN	TS ON	LY	
1. Name of conveying part	ty(ies):		2. Name a	and address of receiving party(ies);	
Michael J. Stuke			LICAN CT	T BACKARD DEVELOPMENT COM	IDANV I B
Michael R.T. Tan Alexandre M. Bratkovski		HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. 11445 Compaq Center Drive West Houston, TX 77070			
				Min Hu	
Huei Pei Kuo					
Jingjing Li					
Zhiyong Li	•				
- Fung Suong Ou					
Shih-Yuan Wang					
Additional name(s) of convey	/ing party(ies) attached	? XYes □No	Additional n	name(s) and address(es) attached?	es 🗷 No
3. Nature of Conveyance:					
★ Assignment	Merger	☐ Change o	of Name	Security Agreement	tniot
Other					
				•	
Execution Date(s):August	3, 2010; August 4, 2	2010; August 5,	, 2010	·	
4. Application number(s) of	or patent number(s):				
if this document is being	g filed together with a	a new application	on, executio	n date of the application is:	
A. Patent Application N	o.(s)				
Application No.: 12	/847,982	Date Filed:	; July 30, 20	910	
Confirmation No.:50	16	B. Patent N	vo.(s):		
Additional numbers offsel	hada NO				
Additional numbers attached? NO 5. Name and address of party to whom correspondence concerning document should be mailed: Records Manager Intellectual Property Administration		6 Total no	umber of applications and patents inv	olved: 1	
		7. Total Fee (37 CFR 3.41):\$40,00			
		Enctosed			
HEWLETT-PACKARD COMPANY 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528			X _A	X Authorization to be charged to deposit account.	
			8. Depos	8. Deposit Account Number: 08-2025	
-		<u>. </u>	1		
9. Statement and signatur	e.				
		foregoing info	rmation is tr	ue and correct and any attached cop	y is a tru e
copy of the original doc	ument	\ .	h	•	
David T. Millers, Reg. Name of Person S		Jarral Sign	eture	September 8, 2	:010
Total n	umber of pages incl	uding covershe	et, attachme	ents, and documents:7	
				faxed to (571) 273-0140, or mailed to P.O. Box 1450, Alexandria, V.A. 22	
		Page	1 of 2		

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RECORDATION FORM COVER SHEET PATENTS ONLY					
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	Page	2 of 2			

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PATENT REEL: 024955 FRAME: 0155

PATENT APPLICATION

ATTORNEY DOCKET NO. <u>200</u>903735-1

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 lassigns, the entire right, title and interest, including the right of priority, in, to and under an application for Letters Patent of the United States

GRATING SYSTEM FOR MULTIPLE WAVELENGTHS OF RAMAN SCATTERING Filing Date: July 30, 2010 Application No.: 12/847,982 and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-l-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. I/we further authorize and direct the attorneys of record to insert the serial number and filling 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 August 5, 2010 Michael J. Stuke Date Application Signed Inventor's Typed Name Date Assignment Signed Inventor's Signature Michael R.T. Tan Date Application Signed inventor's Typed Name

Page 1 of 3

PATENT REEL: 024955 FRAME: 0156

Rev 10/09 (Assignment)

PATENT APPLICATION

ATTORNEY DOCKET NO. _____200903735-1

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:

GRATING SYSTEM FOR MULTIPLE WAVELENGTHS OF RAMAN SCATTERING Application No.: 12/847,982 Filing Date: July 30, 2010 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. 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. Date Assignment Signed Inventor's Signature Michael J. Stuke Date Application Signed Inventor's Typed Name Michael R.T. Tan inventor's Typed Name

Rev 10/09 (Assignment)

Page 1 of 3

PATENT REEL: 024955 FRAME: 0157

PATENT APPLICATION

ATTORNEY DOCKET NO. ___

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wentor's Typed Name	Date Application Signed
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lin Hu	<u>08(03/2010</u>
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nventor's Signature	Date Assignment Signed
ingjing Li	08/04/2010
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hiyong Li	8/3/2010
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Rev 10/09 (Assignment)

PATENT APPLICATION

ATTORNEY DOCKET NO. 200903735-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

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