U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

ATTORNEY DOCKET NO.	83138539	_		Patent and Tra	demark Office
AMP 1	RECO	RDATION F	ORM COVER SHE	ET	
		PATEN	TS ONLY		
Name of conveying party(is	 3\$):		2. Name and addres	s of receiving party(ies):	
Steven J. Barcelo			LIENA ETT DACKA	RD DEVELOPMENT COM	PANY I P
Zhiyong Li		•	11445 Compaq Ce		77(141, tm.) .
Gary Gibson			Houston, TX 77070		
Mineo Yamakawa					
Ansoon Kim					
Ausoutiviii					
		;		1	
Additional name(s) of conveying	party(jes) attached?	□Yes ⊠No	Additional name(s) and	i address(es) attached? □Ye	s 🗷 No
3. Nature of Conveyance:	L-my (my)	and the second	M. W.		
	⊒Merger	☐ Change o	f Name	Security Agreement	☐Joint
Other					
Execution Date(s):January 31	1, 2013 and Febru	ary 4, 2013			
4. Application number(s) or pa	atent number(s):		W 11 W 1		
If this document is being file	ed together with a	new application	on, execution date of	the application is:	
A. Patent Application No.(s			•	2 4 4	
Application No.: 13/75	•	Date Filed:	January 31, 2013	1	
Confirmation No.: 9761		B. Patent N	lo.(s):		
Additional numbers attached			C Total number of	applications and patents inv	olved: 1
Name and address of party concerning document should		ondence			NYGU. I
			/, Total Fee (37 CF	R 3,41):\$40.00	
Records Manager Intellectual Property Adm	ninistration		Enclosed		
HEWLETT-PACKARD CO	HEWLETT-PACKARD COMPANY X Authorization to be charged to deposit acco		account.		
		8. Deposit Account Number: 08-2025			
Fort Collins, Colorado 80)528		A CONTRACTOR OF THE CONTRACTOR	 	
9. Statement and signature.					
To the best of my knowled	lge and belief, the	foregoing infol	mation is true and co	rrect and any attached copy	r is a true
copy of the original docum	ent.	A75	. 1. 0.		
David T. Millers, Reg. No	37.396	Joing	Mellera	February 5, 20	13
Name of Person Sign	ning	Sign	ature	Date	
Total num	ber of pages inclu	ding covershe	et, attachments, and	documents:7	
Documents to be	e recorded (includi	ng cover shee	t) should be faxed to	(571) 273-0140, or mailed to	ɔ :
Mail Stop Assignment R	tecordation Service	es, Director of	the USPTO, P.O. Box	1450, Alexandria, V.A. 22	313-1450
		Page	1 of 1		
WWYY		- Allert			

Rev 09/11 (RecdAsgn)

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

		LICATI	

RECORD ID:

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree, that for good and valuable consideration, the receipt of which is hereby acknowledged, and in furtherance of my/our obligations to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Houston,

Texas, (hereinafter HPDC), and to its subsidiaries and affiliates, to 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 Patent Plasmon Resonance Based Strain Gauge Filing Date: January 31, 2013 Application No.: and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations in-part (CTP's), divisionals, and renewals of and substitutes for said application for said Patent, and any and all other Patent of any countries thereto which may be granted thereon or theretore; and any reissues, or reexaminations, or extensions of said Patent. I/we additionally authorize HPDC to file applications in my/our name for Patent in any country, to be neld and enjoyed by HPDC, its successors, assigns, nominees or legal representatives, to the full and of the term or terms for which said 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 tiwe hereby covenant that tiwe have full right to convey the entire interest herein assigned, and that tiwe have not executed and will not execute any agreement in conflict herewith, and lifwe 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 Patent; to HPDC, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to HPDC, or to its nominee, all known tacks respecting said invention(s) or improvement(s), said application and said 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 paths 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 pretection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by melus in lending such cooperation and assistance are paid by HPDC: AND I've hereby authorize and request the official of any country or countries whose duty it is to issue patents on applications as aforesaid, to issue to HPDC, as assigned of the entire right, title and interest, any and all Patent for said invention(s) or improvement(s) which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment. live further authorize and direct the attorneys of record to insert the filing date and application number of said application for Patent, now identified by the Record ID and title set forth above, as spon as the same shall have been made IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s): inventor's Signature Steven J. Barcelo Inventor's Typed Name Inventor's Signature Zhiyong Li Inventors Typed Name Rev 1/ 2013 (Assignment

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road	PATENT APPLICATION
Mai Stop 35	ND: 83138539
Fort Collins, Colorado 80528 ASSIGNMENT OF PATENT APPLICAT	ION (cont.)
	rada a k aja dan kampa ya dan 1. Tanggaran arawa
. Inventor's Signature	
ি পুলা কি কাল ক্ষুত্ৰ প্ৰাৰ্থক আৰু আনি কাল জন্ম এন কি আলোগ কাল আলি আলি বিভাগ আলোগ কি Gary Gibson'	
Inventor's Typed Name	*** The state of t
	· · · · · · · · · · · · · · · · · · ·
	131/2213
Inventor's Signature De	A CHARLES OF THE CONTROL OF THE CONT
Mineo Yamakawa	4
Elimenta Typed Name (1) algebras (1) and (1) a	
<u> </u>	
Inventor's Signature Ansoon Kim Ansoon Kim Ansoon Typed Name Inventor's Typed Name Inventor's Signature Date of the state of the	
ogu sing Augenta i elegis segun a cultura nom ne elegis også elegis at potation og de	of the second of
IPVERIOUS I VOER IVERIO	
	- R. Agenta (American) Agenta (American) De maria (Artificia) (American) (A
Inventor's Signature Da	ite
Invertions Typed Name	
Inventor's Signature Dat	to
Inventor's Typed Name	A Control of the Cont
	- 1
Rev. 1/2013 (Assignment). Page 2 of 2	

PATENT APPLICATION HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road 83138539 RECORD ID: Mail Stop 35 Fort Collins, Colorado 80528 ASSIGNMENT OF PATENT APPLICATION I/We, the undersigned (each) have agreed and hereby agree, that for good and valuable consideration, the receipt of which is hereby acknowledged, and in furtherance of my/our obligations to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Houston. Texas, (hereinafter HPDC), and to its subsidiaries and affiliates, to assign and triansfer to HPDC, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under an application for Patent entitled: Plasmon Resonance Based Strain Gauge Application No.: |13/755,801 Filing Date: January 31, 2013 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 Patent, and any and all other Patent of any countries thereto which may be granted thereon or therefore; and any reissues, or reexaminations, or extensions of said Patent. I/we additionally authorize HPDC to file applications in my/our name for 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 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 l/we further dovenant and agree that l/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 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 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 official of any country or countries 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 Patent for said invention(s) or improvement(s) which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment. l/we further authorize and direct the attorneys of record to insert the filing date and application number of said application for Patent, now identified by the Record ID and title set forth above, as spon as the same shall have been made known to them. IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s): Date Inventor's Signature Steven J. Barcelo Inventor's Typed Name

Page 1 of 2

Inventor's Signature

Inventor's Typed Name

Rev 1/2013 (Assignment)

Zhiyong Li

PATENT REEL: 029755 FRAME: 0797

#0579 P.004/007

HEWLETT-PACKARD COMPANY	\$ \$	PATENT APPLICATION
Intellectual Property Administrator 3404 E. Harmony Road	\$	
Mail Stop 35	RECORD ID:	83 <u>13</u> 8 <u>539</u>
Fort Collins, Colorado 80528		
ASSIGNMENT O	F PATENT APPLICATION (CO	n t.)
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		•
	and the state of t	
	Date	
Inventor's Signature	Date	
Con. Chan		
Gary Gloson Inventor's Typed Name	-	
miduo o i the insites		
	j	
	Date	The second secon
Inventor's Signature		
Mineo Yamakawa	· ·	
Inventor's Typed Name		
made to the party of the same	j	
	1	
	į	
The state of the s	Date	
Inventor's Signature		
Ansoon Kim	y L	
Inventor's Typed Name	A STATE OF THE STA	
	į	
ı		
Inventor's Signature	Date	
inventor a pignatura	•	
inventor's Typed Name		
•		
Inventor's Signature	Date	
	1	
Inventor's Typed Name	***************************************	
Macura a Theo Legino		
]	
Inventor's Signature	Date	
	·	
Investorie Timed Moreo		
Inventor's Typed Name		
	Done 2 of 2	
Rev 1/2013 (Assignment)	Page 2 of 2	

HEWLETT-PACKARD COMPANY			PATENT APPLICATION
Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528	RECOF	RD ID:	83138539
Fort Collins, Colorado 80528	A A A A A A A A A A A A A A A A A A A	IO ATI	7.5.1
receipt of which is hereby an DEVELOPMENT COMPANY, I	ASSIGNMENT OF PATENT APPL (each) have agreed and hereby agree, to cknowledged, and in furtherance of many a Texas Limited Partnership having to its subsidiaries and affiliates, to assign interest, including the right of priority Strain Gauge	that for ny/our o g its pri an and	good and valuable consideration, the bligations to HEWLETT-PACKARD acipal place of business in Houston, transfer to HPDC, its successors and
		4.01	
Filing Date: January 31,	2013 Application	n No.:	13/755,801
and the invention(s) and improve	rement(s) set forth therein, and any and a d substitutes for said application for said granted thereon or therefore; and any reis	II contin	uations, continuations-in-part (C-I-P's), and any and all other Patent of any
by HPDC, its successors, assignment respectively may be grant	dPDC to file applications in my/our name for ns, nominees or legal representatives, to the name of the properties of the properties of the nament, and transfer not been made;	he full e	and of the term or terms for which said
executed and will not execute at time a request is made, and with perfect the title to said invention nominees or legal representative said invention(s) or improvement papers, to execute all disclaim- rightful oaths and declarations, and legal representatives to obtain improvement(s) in any and all cooperation and assistance are	•	truther paper said Paper said Paper said Paper said HF proper may to	covenant and agree that twe will, each as as may be necessary or desirable to tent, to HPDC, its successors, assigns, its nominee, all known facts respecting any legal proceedings, to sign all lawful and foreign applications, to make all DC, its successors, assigns, nominees patent protection for said invention(s) or be incurred by me/us in lending such
applications as aforesaid to iss	e and request the official of any country of ue to HPDC, as assignee of the entire rig which may be issued and granted on o s assignment.	ht, title :	and interest, any and all Patent for said
I/we further authorize and application for Patent, now ident known to them.	direct the attorneys of record to insert ified by the Record ID and title set forth about	the filing ove, as	date and application number of said soon as the same shall have been made
IN WITNESS WHEREOF, I.	/we hereunto set my/our hand(s) and se	eal(s):	
Inventor's Signature		Date	
Steven J. Barcelo Inventor's Typed Name	. M. Marija y		
•			
Inventor's Signature	and the second s	Date	

Page 1 of 2

Inventor's Signature

Zhiyong Li Inventor's Typed Name

Rev 1/2013 (Assignment)

,			
LIDAU STE DACKARD COMPANY			
HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528		RECORD ID:	PATENT APPLICATI 83138539
Fort Collins, Colorado 80528	SIGNMENT OF PATE	NT APPLICATION (cor	
Inventor's Signature		Date	
Gary Gibson Inventor's Typed Name			
Inventor's Typed Name			
		Date	
Inventor's Signature Mineo Yamakawa		Date	
Inventor's Typed Name	-		
2			1/31/2013
Inventor's Signature	-	Date	
Anscon Kim Inventor's Typed Name			
Inventor's Signature	<u> </u>	Date	
Inventor's Typed Name			
Inventor's Signature		Date	
Inventor's Typed Name			

PATENT

02/05/2013