ATTORNEY DOCKET NO. 200701910-2

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

RECORDATION F	ORM COVER SHEET	
PATEN	TS ONLY	
Name of conveying party(ies):	2. Name and address of receiving party(ies):	
SHIH-YLAN WANG R. STANLEY WILLIAMS	HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P. 11445 Compaq Center Drive West Houston, TX 77070	
NOBUHIKO P. KOBAYASHI		
·		
Additional name(s) of conveying party(les) attached?	Additional name(s) and address(es) attached? ☐ Yes [汉]No	
3. Nature of Conveyance:	f Name ☐ Security Agreement ☐ Joint	
Other		
Execution Date(s): 1/07/08 1/14 4. Application number(s) or patent number(s):	108;	
If this document is being filed together with a new application	on, execution date of the application is:	
A. Patent Application No.(s) Application No.: (2.2식4 9 3 9 Date Filed:	10/03/08	
Confirmation No.: 2945 B. Patent N	lo.(s):	
Additional numbers attached? <u>NO</u>		
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:	
	7. Total Fee (37 CFR 3.41):\$40.00	
Records Manager Intellectual Property Administration	Enclosed	
HEWLETT-PACKARD COMPANY P.O. Box 272400 Fort Gollins, Colorado 80527-2400	_X_Authorization to be charged to deposit account.	
	8. Deposit Account Number: <u>08-2025</u>	
9, Statement and signature:	<u> </u>	
To the best of my knowledge and belief, the foregoing infor- copy of the original document.	mation is true and correct and any altached copy is a true	
HEATHER A CILIS # ## Signing Signing	5 56p - 2, 2009 Date	
Total number of pages including covershee	et, attachments, and documents:	
) should be faxed to (571) 273-0140, or mailed to: the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450	
. Page	1 of	

Rev 05/09 (RecdAsgn)

PATENT REEL: 023169 FRAME: 0858

iken paina (kecawada)

700416906

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

ATTORNEY DOCKET NO.

<u> 200701910 2</u>-

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree to easign 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:

PHOTONIC DEVICE AND METHOD OF MAKING SAME USING NANOWIRES

Filling Date: ()C 0 2+E 2-5-2000 App	lication No.: 12 / 244 4 5 7
and the invention(s) and improvement(s) set forth therein, and a	any and all continuations, continuations-in-part (C-I-
P's), divisionals, and renewals of and substitutes for said applica	
Patent of the United States and of countries foreign thereto wh	nich 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 r	ny/our name for Letters Patent in any country, to be
held and enjoyed by HPDC, its successors, assigns, nominees of	r legal representatives, to the full end of the term or
terms for which said Letters Patent respectively may be granted	
same would have been held and enjoyed by me/us had this assig	
AND I/we hereby covenant that I/we have full right to co	
we have not executed and will not execute any agreement in col	
that I/we will, each time a request is made, and without undue de	alay, execute and deliver all such papers as may be
necessary or desirable to perfect the title to said invention(s) of	r improvement(s), said application and said Letters
Petent, to HPDC, its successors, assigns, nominees or legal n	
HPDC, or to its nominee, all known facts respecting said invent	ion(s) or improvement(s), said application and said
Letters Patent, to testify in any legal proceedings, to sign all lawfi	ul papers, to execute all disclalmers 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, assigna,	nominees and legal representatives to obtain and
enforce, for its or their own benefit, proper patent protection for	seld invention(s) or improvement(s) in any and all
countries provided the expenses which may be incurred by me/	his in lending such cooperation and assistance are
paid by HPDC;	•
AND I/we hereby authorize and request the Commissio	ner of Patents and Trademarks of the United States
and any official of any country or countries foreign to the Ur	
applications as aforesaid, to issue to HPDC, as assignee of the	e entire right, title and interest, any and all Letters
Patent for said invention(s) or improvement(s), including any an	
be issued and granted on or as a result of the application aforesa	iid, in accordance with the terms of this assignment.
I/we further authorize and direct the attorneys of recor	d to insert the serial number and filing date of said
application now identified by the attorney docket number and till	
been made known to them by the United States Patent and Trade	emark Office.
IN WITNESS WHEREOF, I/we hereunto set my/our hand(s)	and seal(s):
-71 13 1 x	
Shippanlong	2/7/0/9 Date Assignment Signed
Inventor's Signattire (Seal)	Date Assignment Signed
0	15145
SHIH-YUAN WANG	1/1/08
Inventor's Typed Name	Date Application Signed
•	
State of	•
(
) 58,:	
County of)	
Before me this day of personally appeared .	SHIH-YUAN WANG who is personally
known or proved to me on the basis of satisfactory evidence to be the	e person who acknowledged the foregoing instrument of
assignment to be his/her free act and dead.	
	Notary Public
B 1 1 4 A	My Commission Expires:
Rev 10/07 (Assignment) Page 1 of 2	•

REEL: 023169 FRAME: 0859

PATENT

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

ATTORNEY DOCKET NO. 200701910 -2

ASSIGNMENT OF PATENT APPLICATION (cont.)

14 Starle Wille	<u>/:></u>	<u> </u>	
Inventor's Signature (Seal)		Date Assignin/ent Signed	
R. STANLEY WILLIAMS		01/14/18	
Inventor's Typed Name		Date Application Signed	
•		` <u>.</u> .	
State of)		
) ss.: \		
Caunty of	}		who is pe
Before me thisday of known or proved to me on the basis assignment to be his/her free act and	, personally appeared of satisfactory evidence to be deed.	R, STANLEY WILLIAMS the person who acknowledged the fore	
assignment to be thanter free act and	46501	Natáry Pūblic	
		My Commission Expires:	
			٠.
	T- 5	09/21-104	
A second of the		Date Assignment Signed	
Inventor's Signature (Seal)		Sala Assignment Cognical	<u>;</u>
NOBULIKO P. KOBÁYASHI		09/26/08	
Inventor's Typed Namo		Date Application Signed	'
State of) \ee;		
County of .) ss.: , }		
Before me this day of	, personally appeared	NOBUHIKO P. KOBAYASHI	who is po
known or proved to me on the basis	of satisfactory evidence to be	the person who acknowledged the fore	egolng instru
assignment to be his/her free act and	deed.		
		Notery Públic My Com/nission Explices:	
		My dominional Engineer	
Inventor's Signature (Seal)		Date Assignment Signed	· ·
	•		
	·	Date Application Signed	
(nventor's Typed Name	,	Date Application Signed	
(nventor's Typed Name	1	Date Application Signed	
)) ss.:	Date Application Signed	
(nventor's Typed Name)) ss.:)	Date Application Signed	
Inventor's Typed Name State of County of Before me this day of) , personally appeared		who is be
Inventor's Typed Name State of County of Before me this) , personally appeared_ s of satisfactory evidence to be	Date Application Signed be the person who acknowledged the for	
Inventor's Typed Name State of County of Before me this day of) , personally appeared_ s of satisfactory evidence to be		

PATENT REEL: 023169 FRAME: 0860