	10-	18-1999		
FORM PTO-1595 1-31-92 RECOR	/ Improvement		I.S. DEPARTMENT OF COMMERCE Patent and Trademark Office	
Mrx.10/12/99	101	173219	rney Docket No. 10981927	
1. Name of conveying party(ies):		2. Name and address	of receiving party(ies):	
Yong Chen Shih-Yuan Wang		HEWLETT-PACKARD COMPANY Legal Department, M/S 20BN 3000 Hanover Street Palo Alto, CA 94304		
Additional name(s) of conveying party(ies) attached	Yes X No	Additional name(s) & addre	ess(es) attached?Yes _X No	
3. Nature of Conveyance:				
X Assignment	Merger	(Change of Name	
Security Agreement	Other			
Execution Date(s): February 1, 1999				
4. Application number(s) or patent number(s):			
If this document is being filed together with	a new appli	cation, execution date of	of the application is:	
A. Patent Application No.(s)		B. Patent No.(s)		
Serial No.: 09/243,184 Date Filed:02/0	2/99			
Add	litional numb	ers attached? NO		
5. Name and address of party to whom corrections document should be mailed:	espondence	6. Total number of app	plications and patents involved: 1	
Records Manager		7. Total Fee (37 CFR 3	3.41): \$40.00	
HEWLETT-PACKARD COMPANY 1501 Page Mill Road		Enclosed		
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Palo Alto, CA 94304-1126				
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9. Statement and signature. To the best of my knowledge and belief, the true copy of the original document. 0/15/1999 NTHAI1 00000129 082025 09243184	e foregoing i	information is true and o	correct and any attached copy is a	
1 FC:58: 40.00 CH Linda A. limura	P 11	2. 1	0.4.00.1000	
	<i>un wal a ()</i> gnature	1 blenerea	Oct 06, 1999 Date	
		ling cover sheet, attachme		
OMB No. 0651-0011 (exp. 4/94)				
Mail document to be recorded with required	cover sheet issioner of P Box A	ch this portion information to: Patents and Trademarks assignment on, D.C. 20231		

PATENT REEL: 010306 FRAME: 0043

PATENT APPLICATION

HEWLETT-PACKARD COMPANY Legal Department, 20BN

P. O. Box 10301 Palo Alto, California 94303-0890 ATTORNEY DOCKET NO. 10981927

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD

COMPANY, a Delaware corporation having its principal place of business in Palo Alto, California, (hereinafter HP), in furtherance of my/our obligations to HP, and do hereby assign and transfer to HP, 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:						
VERTICAL CAVITY SURFACE EMITTING LASER (VCS	SEL) USING BURIED BRAGG REFLECTORS AND					
METHOD FOR PRODUCING SAME						
Filing date: February 2, 1999	Serial No.: <u>09/243,184</u>					
and the invention(s) and improvement(s) set fo continuations-in-part (C-I-P's), divisionals, and renewa Letters Patent, and any and all Letters Patent of the Unmay be granted thereon or therefor; and any reissues Patent.	ls of and substitutes for said application for said nited States and of countries foreign thereto which					
I/we additionally authorize HP to file applications in be held and enjoyed by HP, its successors, assigns, no the term or terms for which said Letters Patent respe fully and entirely as the same would have been held transfer not been made;	ominees or legal representatives, to the full end of ectively may be granted, reissued or extended, as					
AND I/we hereby covenant that I/we have full right that I/we have not executed and will not execute any covenant and agree that I/we will, each time a reques deliver all such papers as may be necessary or des improvement(s), said application and said Letters Patelegal representatives, and I/we agree to communicate to said invention(s) or improvement(s), said application proceedings, to sign all lawful papers, to execute all creissue and foreign applications, to make all rightful everything possible to aid HP, its successors, assigns, enforce, for its or their own benefit, proper patent proper any and all countries provided the expenses which may and assistance are paid by HP;	r agreement in conflict herewith, and I/we further it is made, and without undue delay, execute and irable to perfect the title to said invention(s) or ent, to HP, its successors, assigns, nominees or o HP, or to its nominee, all known facts respecting and said Letters Patent, to testify in any legal disclaimers and divisionals, continuations, C-I-P's, ul oaths and declarations, and generally to do nominees and legal representatives to obtain and otection for said invention(s) or improvement(s) in					
AND I/we hereby authorize and request the Comm States and any official of any country or countries fore patents on applications as aforesaid, to issue to HP, as and all Letters Patent for said invention(s) or improvem United States which may be issued and granted or accordance with the terms of this assignment.	eign to the United States whose duty it is to issue assignee of the entire right, title and interest, any nent(s), including any and all Letters Patent of the					
I/we further authorize and direct HP attorneys to application now identified by the attorney docket number shall have been made known to them by the United States Inventor's Signature (Seal)	ber and title set forth above as soon as the same					
Inventor's Typed Name: Yong Chen	_ Date Application Signed: 2/1/99					
State of California						
County of Santa Clara)						

Notary Public — California Santa Clara County My Comm. Expires Oct 27,1999

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

Rev 11/98 (Assign)

My commission expires: 10/27/99

PATENT of 3

REEL: 010306 FRAME: 0044

When recorded please return to:
HEWLETT-PACKARD COMPANY
Legal Department, 20BN
P. O. Box 10301
Palo Alto, California 94303-0890

PATENT APPLICATION				
ATTORNEY DOCKET NO.	10981927			

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I we have	ereunto set n	ny/our hand(s) and seal(s):			
Inventor's Signature (Seal)	<i>f</i>	Date Assignment Signed:_	Febr 1, 99		
Inventor's Typed Name: Shih-Yuan Wa	ng	Date Application Signed: Feb 1, 99			
State of California)		<i>,</i> , , ,		
County of Santa Clara) ss.:				
Before me this 15th day of the	ii tile bases oi	satisfactory evidence to be the	<u>fuan Wang</u> who is person who acknowledged the foregoing		
This is difficult of assignment to be mistrer		· · · · · · · · · · · · · · · · · · ·	£ 1 6010		
		5	Notary Public		
·	^nnt	A IMURA Accion #1072458 Public — California a Clara County n. Expires Oct 27,1993	My commission expires: 10/27/99		
		Date Assignment Signed:			
Inventor's Signature (Seal)					
Inventor's Typed Name:		Date Application	Signed:		
State of)) ss.:				
County of)				
Before me this day of		, personally appeared	who is person who acknowledged the foregoing		
personally known or proved to me or instrument of assignment to be his/her f			person who acknowledged the foregoing		
			Notary Public		
			My commission expires:		
Inventor's Signature (Seal)		Date Assignment Signed:			
Inventor's Typed Name:		Date Application	Signed:		
State of)				
County of) ss.:)				
Before me this day of personally known or proved to me on instrument of assignment to be his/her for	the basis of a	satisfactory evidence to be the	person who acknowledged the foregoing		
			Notary Public My commission expires:		

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

Page 2 of 2

PATENT REEL: 010306 FRAME: 0045

RECORDED: 10/12/1999