1. Name of conveying pa Tamio Humphrey Salvador Salcido, Jr.	07 - 29 - 1998 100781396 rty(ies):	DVER SHEET Patent and Trademark Office Pate			
Additional name(s) of conveying	g party(ies) attachedYes _X_ N	lo Additional name(s) & address(es) attached?Yes _X_ No			
3. Nature of Conveyance	:				
X Assignment	Merge	cr Change of Name			
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Execution Date(s): 5/28/9	98, 5/28/98 respectively				
4. Application number(s)	or patent number(s):				
If this document is being filed together with a new application, execution date of the application is:					
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Serial No.: 09/087,130	Date Filed: 5/29/98				
Additional numbers attached? NO					
5. Name and address of processing document	•	ee 6. Total number of applications and patents involved: 1			
Records Manager		7. Total Fee (37 CFR 3.41): \$40.00			
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1000 NE Circle Bly Corvallis, OR 9733		X Authorization to be charged to deposit account.			
		8. Deposit Account Number: 08-2025			
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9 Statement and signature	re				
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.					
Shellie Schiel Name of Person Signing Signature July 6, 1998 Date					
Total number of pages including cover sheet, attachments, and document: 3					
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PATENT

PATENT APPLICATION

HEWLETT-PACKARD COMPANY Legal Department, 20BN P. O. Box 10301

Palo Alto, California 94303-0890

ATTORNEY DOCKET NO. 10980418-1

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:

Ball Grid Array Package With Supplemental Electronic Component

Filing date: May 29, 1998	Serial No.:09/087,130				
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 therefor; and any reissues, or reexaminations, or extensions of said Letters Patent.					
I/we additionally authorize HP to file applications in my/our name for Letters Patent in any country, to be held and enjoyed by HP, 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 HP, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to HP, 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 HP, 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 HP;					
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 HP, 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 HP attorneys 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.					
C-34-90					
Inventor's Signature (Seal)	Assignment Signed: 5 20 18				
Inventor's Typed Name: Tamio Humphrey	Pate Application Signed: 5-28-98				
State of Oregon)					
County of Benton) ss.:					
Before me this As day of May 1998, personal	ly appeared Tamio Humphrey who is				
Before me this As day of May 1998, personally appeared Tamio Humphrey 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.					
OFFICIAL SEAL	Stulle Schill				
SHELLIE SCHIEL NOTARY PUBLIC - OREGON COMMISSION NO. 308635 MY COMMISSION EXPIRES JAN. 21, 2002	Notary Public My commission expires: //21/0.2				
(Use Page Two For Additional Invent	or(s) Signature(s)) PATENT Page 1 of 2				

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PATENT APPLICATION

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ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITN	NESS WHEREOF, I	we hereunto set my	y/our hand(s) and seal(s	s):
		-1		
=			Date Assignment Signe	d: 28 May 1978
	Signature (Seal)	7		70 W. 1230
Inventor's	Typed Name: Salvadoi	Salcido, Jr.	Date Applicat	tion Signed: 28 May 1998
State of	Oregon)		
County of	Benton) ss.:)		
Refore	me this $\partial X \stackrel{fh}{=} day of$	Alm 1948	personally appeared Sa	Ivador Salcido. Jr. who i
				Ivador Salcido, Jr. who i the person who acknowledged the foregoin
instrument	t of assignment to be hi	s/her free act and deed.		Show John
		OFFICIAL SEAL SHELLIE SCHIE NOTARY PUBLIC - ORI COMMISSION NO. 30 MY COMMISSION EXPIRES JAN.	EGON 08635	Notary Public My commission expires: //21/0.J
Inventor's	Signature (Seal)		Date Assignment Signed	d:
	-		Data As Page	Consul
Inventor's	Typed Name:		Date Applicat	tion Signed:
State of) ss.:		
County of)		
personally	known or proved to	me on the basis of sa s/her free act and deed.		who in the person who acknowledged the foregoing who acknowledged the foregoing which were the control of the c
				Notary Public
				My commission expires:
Inventor's	Signature (Seal)		Date Assignment Signed	d:
Inventor's	Typed Name:		Date Applicat	ion Signed:
State of		}		
County of) ss.:)		
personally	known or proved to	me on the basis of sa s/her free act and deed.	itisfactory evidence to be t	who is the person who acknowledged the foregoing
				Notary Public
				My commission expires:

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FORM PTO-1595 1-31-92 RECORDATION FORM COVER SHEET Patent and Trademark Office PATENTS ONLY Attorney Docket No. 10980418-1					
Name of conveying party(ies):		2. Name and address of redeiving party(ies):			
Tamio Humphrey		HEWLETT-PACKARD COMPANY			
Salvador Salcido, Jr.		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) & address(es) attached?Yes _X_ No			
3. Nature of Conveyance:					
X Assignment	Merger	Change of Name			
Security Agreement	Other				
Execution Date(s): 5/28/98, 5/28/98 respe	ctively				
4. Application number(s) or patent number(s):				
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A. Patent Application No.(s)		B. Patent No.(s)			
Serial No.: 09/087,130 Date Filed: 5	5/29/98				
Additional numbers attached? NO					
Name and address of party to whom cor concerning document should be mailed:	respondence	6. Total number of applications and patents involved: 1			
Records Manager		7. Total Fee (37 CFR 3.41): \$40.00			
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		8. Deposit Account Number: 08-2025			
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O. Cantanana and signature					
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a					
true copy of the original document.					
Shellie Schiel July 6, 1998					
Shellie Schiel					
· · · · · · · · · · · · · · · · · · ·	gnature	Date			
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