

FORM PTO-1595
1-31-92

ORIGINAL

RECORDATION FORM COVER SHEET
PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Attorney Docket No. 200302373-1

1. Name of conveying party(ies):

- A. David R. BACH
- B. Angelo VILLANI
- C. Nicholas PALMER

2. Name and address of receiving party(ies):

HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.
20555 SH 249
Houston, TX 77070

Additional name(s) of conveying party(ies) attached Yes No

Additional name(s) & address(es) attached? Yes No

3. Nature of Conveyance:

- Assignment
- Merger
- Change of Name
- Security Agreement
- Other

Execution Date(s): A. 11/10/04 B. 11/06/04 C. 10/30/04

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:

A. Patent Application No.(s) B. Patent No.(s)
 Application No.: 10/033,990 Date Filed: 12/28/2001 6,812,485

Confirmation No.: 9151 Additional numbers attached? NO

5. Name and address of party to whom correspondence concerning document should be mailed:

Records Manager
Intellectual Property Administration
HEWLETT-PACKARD COMPANY
P.O. Box 272400
Fort Collins, Colorado 80527-2400

6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41): \$40.00

- Enclosed
- Authorization to be charged to deposit account.

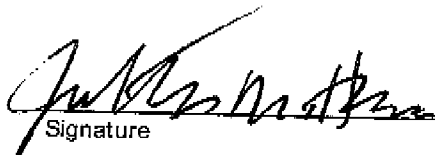
8. Deposit Account Number: 08-2025

DO NOT USE THIS SPACE

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.

Jonathan M. Harris
Name of Person Signing



Signature

May 11, 2005
Date

Total number of pages including cover sheet, attachments, and document: 5

OMB No. 0651-0011 (exp. 4/94)

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Mail document to be recorded with required cover sheet information to:

Mail Stop Assignment Recordation Services
Director of the US Patent and Trademark Office
PO Box 1450
Alexandria, VA 22313-1450

PATENT

CHI \$40.00 082025 10033990

When recorded please return to:

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 Intellectual Property Administrator
 P. O. Box 272400
 Fort Collins, Colorado 80527-2400

PATENT APPLICATION

ATTORNEY DOCKET NO. 200302373-1

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:

DUAL INTERPOSER PACKAGING FOR HIGH DENSITY INTERCONNECT

Filing date: **12/28/2001**

Application No.: **10/033,990**

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 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.

IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):

SIGNED SEPARATELY

Inventor's Signature (Seal) _____ Date Assignment Signed: _____

Inventor's Typed Name: Sharad M. SHAH _____ Date Application Signed: _____

State of California)

County of _____) ss.:

Before me this _____ day of _____, personally appeared Sharad M. SHAH 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.

 Notary Public
 My commission expires: _____

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Intellectual Property Administration
P. O. Box 272400
Fort Collins, Colorado 80527-2400

PATENT APPLICATION
ATTORNEY DOCKET NO. 200302373-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):

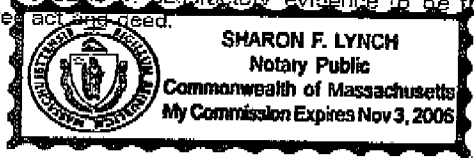
[Handwritten Signature]

Inventor's Signature (Seal) _____ Date Assignment Signed: 11/10/04

Inventor's Typed Name: David R BACH Date Application Signed: 11/10/04

State of Massachusetts)
County of Middlesex) ss.:

Before me this 10th day of November 2004, personally appeared David R BACH 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.



[Handwritten Signature]
Notary Public
My commission expires: Nov 3-2006

SIGNED SEPARATELY

Inventor's Signature (Seal) _____ Date Assignment Signed: _____

Inventor's Typed Name: Angelo VILLANI Date Application Signed: _____

State of Massachusetts)
County of _____) ss.:

Before me this ____ day of _____, personally appeared Angelo VILLANI 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.

Notary Public
My commission expires: _____

SIGNED SEPARATELY

Inventor's Signature (Seal) _____ Date Assignment Signed: _____

Inventor's Typed Name: Nicholas PALMER Date Application Signed: _____

State of Massachusetts)
County of _____) ss.:

Before me this ____ day of _____, personally appeared Nicholas PALMER 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.

Notary Public
My commission expires: _____

When recorded please return to:
HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P. O. Box 272400
Fort Collins, Colorado 80527-2400

PATENT APPLICATION
ATTORNEY DOCKET NO. 200302373-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):

SIGNED SEPARATELY

Inventor's Signature (Seal) _____ Date Assignment Signed: _____

Inventor's Typed Name: David R BACH Date Application Signed: _____

State of Massachusetts)
County of _____) ss.:

Before me this _____ day of _____, personally appeared David R BACH 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.

Notary Public
My commission expires: _____

Angelo Villani
Inventor's Signature (Seal) _____ Date Assignment Signed: 11-6-2004

Inventor's Typed Name: Angelo VILLANI Date Application Signed: 11-6-2004

State of Massachusetts)
County of Worcester) ss.:

Before me this 6 day of November, personally appeared Angelo VILLANI 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.

Luba Starikov
Notary Public
My commission expires: _____
LUBA STARIKOV
Notary Public
Commonwealth of Massachusetts
My Commission Expires
June 20, 2006

SIGNED SEPARATELY

Inventor's Signature (Seal) _____ Date Assignment Signed: _____

Inventor's Typed Name: Nicholas PALMER Date Application Signed: _____

State of Massachusetts)
County of _____) ss.:

Before me this _____ day of _____, personally appeared Nicholas PALMER 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.

Notary Public
My commission expires: _____

When recorded please return to:
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P. O. Box 272400
Fort Collins, Colorado 80527-2400

PATENT APPLICATION
ATTORNEY DOCKET NO. 200302373-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):

SIGNED SEPARATELY

Inventor's Signature (Seal) _____ Date Assignment Signed: _____

Inventor's Typed Name: David R. BACH Date Application Signed: _____

State of Massachusetts)
County of _____) ss.:

Before me this _____ day of _____, personally appeared David R. BACH 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.

Notary Public
My commission expires: _____

SIGNED SEPARATELY

Inventor's Signature (Seal) _____ Date Assignment Signed: _____

Inventor's Typed Name: Angelo VILLANI Date Application Signed: _____

State of Massachusetts)
County of _____) ss.:

Before me this _____ day of _____, personally appeared Angelo VILLANI 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.

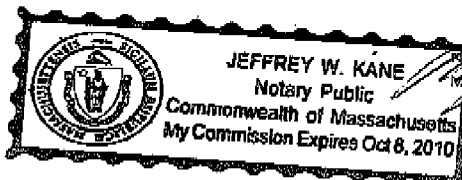
Notary Public
My commission expires: _____

Nicholas J. Palmer _____ Date Assignment Signed: 10/30/04

Inventor's Typed Name: Nicholas PALMER Date Application Signed: 10/30/04

State of Massachusetts)
County of _____) ss.:

Before me this 30 day of October, personally appeared Nicholas PALMER 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.



Jeffrey W. Kane _____
Notary Public
My commission expires: Oct 8 2010

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