

09-11-2001



ET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

Attorney Docket No. 10008035-1

101841557

## 1. Name of conveying party(ies):

Chandrakant D. Patel  
Vernon Alan Barber  
Hannsjorg Obermaier  
Christian Belady  
David Mike Chastain

9.4.01

## Name and address of receiving party(ies):

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

Additional name(s) of conveying party(ies) attached ☐ Yes ☒ NoAdditional name(s) & address(es) attached? ☐ Yes ☒ No

## 3. Nature of Conveyance:

☒ Assignment☐ Merger☐ Change of Name☐ Security Agreement☐ Other

Execution Date(s): 04/20/01; 04/27/01; 04/24/01

## 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.: 09/845,546

Date Filed: 04/30/2001

Confirmation No.:

Additional numbers attached? NO

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

Records Manager  
HEWLETT-PACKARD COMPANY  
Ann Jesus  
1501 Page Mill Rd M/S 4U-10  
Palo Alto, CA 94304

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

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## 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.

Lloyd E. Dakin, Jr.

Name of Person Signing

Signature

Aug 27, 2001

Date

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

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

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09/10/2001 6TON11 00000089 082025 09845546

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40.00 CH

Commissioner for Patents  
Box Assignment  
Washington, D.C. 20231

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Fort Collins, Colorado 80527-2400

PATENT APPLICATION

ATTORNEY DOCKET NO. 10008035 -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:

Cooling Arrangement For High Density Packaging Of Electronic Components

Filing date: 04/30/2001

Serial No.: 09/845,546

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.

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

Inventor's Signature (Seal)

Date Assignment Signed: 4-20-2001

Inventor's Typed Name: Chandrakant D. Patel

Date Application Signed: 4-20-2001

State of )  
County of ) ss.:

Before me this \_\_\_\_ day of \_\_\_\_\_, personally appeared Chandrakant D. Patel 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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Intellectual Property Administration  
P. O. Box 272400  
Fort Collins, Colorado 80527-2400

PATENT APPLICATION  
ATTORNEY DOCKET NO. 10008035-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

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

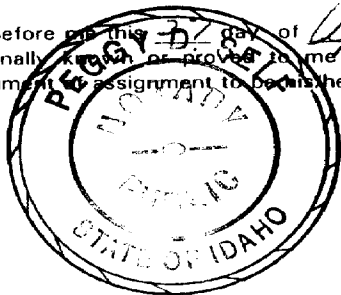
Vernon Alan Barber Date Assignment Signed: 27 April, 2001  
Inventor's Signature (Seal)

Inventor's Typed Name: Vernon Alan Barber Date Application Signed: 27 April, 2001

State of Idaho )  
County of Bonner ) ss.:

Before me this 27 day of April 2001, personally appeared Vernon Alan Barber 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.

Peggy L. Selig  
Notary Public  
My commission expires 08-03-05



Date Assignment Signed: \_\_\_\_\_  
Inventor's Signature (Seal)

Inventor's Typed Name: Hanns Jörg Obermaier Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.:

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Hanns Jörg Obermaier 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.

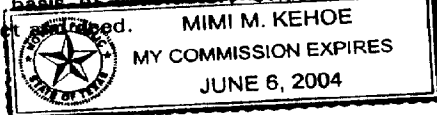
\_\_\_\_\_  
Notary Public  
My commission expires \_\_\_\_\_

C Belady Date Assignment Signed: 4/24/01  
Inventor's Signature (Seal)

Inventor's Typed Name: Christian Belady Date Application Signed: 4/24/01

State of TEXAS )  
County of Collin ) ss.:

Before me this 24 day of MARCH, 2001, personally appeared Christian Belady 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.



Mimi M. Kehoe  
Notary Public  
My commission expires June 6, 2004

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

Page 2 of 4

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Fort Collins, Colorado 80527-2400

PATENT APPLICATION  
ATTORNEY DOCKET NO. 10008035 -1

ASSIGNMENT OF PATENT APPLICATION (cont.)

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

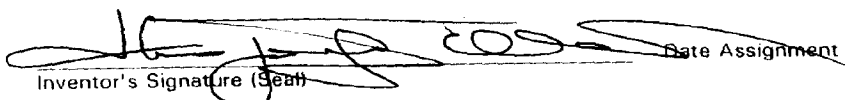
Inventor's Signature (Seal) \_\_\_\_\_ Date Assignment Signed: \_\_\_\_\_

Inventor's Typed Name: Vernon Alan Barber Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.: \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Vernon Alan Barber 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 \_\_\_\_\_

 \_\_\_\_\_ Date Assignment Signed: 4/20/2001

Inventor's Typed Name: Hannsjörg Obermaier Date Application Signed: 4/20/2001

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.: \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Hannsjörg Obermaier 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 \_\_\_\_\_

\_\_\_\_\_  
Inventor's Signature (Seal) \_\_\_\_\_ Date Assignment Signed: \_\_\_\_\_

Inventor's Typed Name: Christian Belady Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.: \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Christian Belady 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 \_\_\_\_\_

ASSIGNMENT OF PATENT APPLICATION (cont.)

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

David Mike Chastain  
Inventor's Signature (Seal)

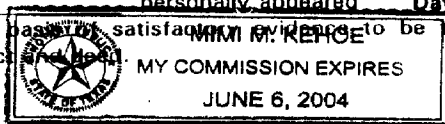
Date Assignment Signed: 4/24/2001

Inventor's Typed Name: David Mike Chastain

Date Application Signed: 4/24/2001

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.: \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared David Mike Chastain 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.



Mimi M. Kere  
Notary Public  
My commission expires June 6, 2004

Date Assignment Signed: \_\_\_\_\_

\_\_\_\_\_  
Inventor's Signature (Seal)

Date Application Signed: \_\_\_\_\_

Inventor's Typed Name: \_\_\_\_\_

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.: \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared \_\_\_\_\_ 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: \_\_\_\_\_

Date Assignment Signed: \_\_\_\_\_

\_\_\_\_\_  
Inventor's Signature (Seal)

Date Application Signed: \_\_\_\_\_

Inventor's Typed Name: \_\_\_\_\_

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.: \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared \_\_\_\_\_ 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: \_\_\_\_\_