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U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

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

KENNETH R. FERNANDEZ  
CLAUDIO FLEINER  
ROBERT B. GARNER  
HARALD HUELS  
MANFRED RIES  
WINFRIED W. WILKE

1.904

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

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Other \_\_\_\_\_

Execution Date: 1/5/04, 1/9/04, 1/9/04, 1/6/04, 1/8/04, 1/9/04

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

Name: International Business Machines Corporation

Internal Address: \_\_\_\_\_

Street Address: New Orchard Road

City: Armonk State: NY Zip: 10504

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

## 4. Application number(s) or patent number(s):

10754971

If this document is being filed together with a new application, the execution date of the application is: 1/9/04

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: IBM Corporation

Internal Address: \_\_\_\_\_

Intellectual Property Law (C4TA/J2B)

Street Address: 650 Harry Road

City: San Jose State: CA Zip: 95120-6099

## 6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40

- ☐ Enclosed
- ☒ Authorized to be charged to deposit account

## 8. Deposit account number:

09-0441

(Attach duplicate copy of this page if paying by deposit account)

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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.

Mark C. McCabe

Name of Person Signing

Signature

1/9/04

Date

Total number of pages including cover sheet, attachments, and documents: 3

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

Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

PATENT

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# ASSIGNMENT

Whereas, we,

(1) Kenneth R. Fernandez  
City of Morgan Hill  
County of Santa Clara  
State of California

(2) Claudio Matthais Fleiner  
City of San Jose  
County of Santa Clara  
State of California

(3) Robert Barton Garner  
City of San Jose  
County of Santa Clara  
State of California

(4) Harald Huels  
City of Bodenheim  
  
Country of Federal Republic of Germany

(5) Manfred Ries  
City of Mainz  
  
Country of Germany

(6) Winfried Wolfgang Wilcke  
City of Los Altos Hills  
County of Santa Clara  
State of California

have invented certain improvements in *(Title of Invention)*:

## A SYSTEM AND METHOD FOR PROVIDING COOLING IN A THREE-DIMENSIONAL INFRASTRUCTURE FOR MASSIVELY SCALABLE COMPUTERS

and executed a Declaration and Power of Attorney for a United States patent application therefor on

(1) Jan 5<sup>KF</sup> - 2004

(2) Jan 9 2004

(3) JAN 9, 2004

(4) \_\_\_\_\_

(5) \_\_\_\_\_

(6) Jan 9 2004

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504 (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and I request the Commissioner of Patents and Trademarks to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors and assigns; and I hereby agree that IBM may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

**Execution by Inventors**

(1) Inventor: Kenneth Richard Fernandez City/State: San Jose, CA.

Signature Kenneth R Fernandez Date Jan 5 - 2004

(2) Inventor: Claudio Matthias Fleiner City/State: San Jose CA

Signature Claudio Date Jan 9 2004

(3) Inventor: Robert Barton Garner City/State: SAN JOSE, CA

Signature Robert Date 1/9/04

(4) Inventor: Harald Huels City/Country:

Signature \_\_\_\_\_ Date \_\_\_\_\_

(5) Inventor: Manfred Ries City/Country:

Signature \_\_\_\_\_ Date \_\_\_\_\_

Winfried (Wuu?)  
(6) Inventor: Winfried Wolfgang Wilcke City/State: San Jose, CA

Signature Winfried W. W. Wilcke Date Jan 9, 2004

**ASSIGNMENT****Whereas, we,**

- |   |   |
|---|---|
| (1) <b>Kenneth R. Fernandez</b><br>City of <b>Morgan Hill</b><br>County of <b>Santa Clara</b><br>State of <b>California</b> | (2) <b>Claudio Matthais Fleiner</b><br>City of <b>San Jose</b><br>County of <b>Santa Clara</b><br>State of <b>California</b>        |
| (3) <b>Robert Barton Garner</b><br>City of <b>San Jose</b><br>County of <b>Santa Clara</b><br>State of <b>California</b>    | (4) <b>Harald Huels</b><br>City of <b>Bodenheim</b><br><br>Country of <b>Federal Republic of Germany</b>                            |
| (5) <b>Manfred Ries</b><br>City of <b>Mainz</b><br><br>Country of <b>Germany</b>  | (6) <b>Winfried Wolfgang Wilcke</b><br>City of <b>Los Altos Hills</b><br>County of <b>Santa Clara</b><br>State of <b>California</b> |

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**A SYSTEM AND METHOD FOR PROVIDING COOLING IN A  
THREE-DIMENSIONAL  
INFRASTRUCTURE FOR MASSIVELY SCALABLE COMPUTERS**

and executed a Declaration and Power of Attorney for a United States patent application therefor on

(1) _____	(2) _____
(3) _____	(4) <u>January 6, 2004</u>
(5) <u>January 8, 2004</u>	(6) _____

Whereas, **INTERNATIONAL BUSINESS MACHINES CORPORATION**, a corporation of New York, having a place of business at Armonk, New York 10504 (hereinafter called **IBM**), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, the above named, hereby sell, assign, and transfer to **IBM**, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and I request the Commissioner of Patents and Trademarks to issue any Letters Patent granted upon the inventions set forth in said application to **IBM**, its successors and assigns; and I hereby agree that **IBM** may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by **IBM**.

**Execution by Inventors**(1) Inventor: **Kenneth Richard Fernandez**

City/State:

Signature \_\_\_\_\_

Date \_\_\_\_\_

(2) Inventor: **Claudio Matthias Fleiner**

City/State:

Signature \_\_\_\_\_


Date \_\_\_\_\_

(3) Inventor: **Robert Barton Garner**

City/State:

Signature \_\_\_\_\_

Date \_\_\_\_\_

(4) Inventor: **Harald Huels**City/Country: 55294 Bookenheim  
Federal Republic of GermanySignature Date 01/06/2004(5) Inventor: **Manfred Ries**City/Country: 55129 MuenSignature Date 01/08/2004(6) Inventor: **Winfied Wolfgang Wilcke**

City/State:

Signature \_\_\_\_\_

Date \_\_\_\_\_