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1. Name of conveying party(ies)

(1) Yasuo Amemiya (2) Hendrik F. Hamann (3) Walter Hirt
(4) Ying Hung (5) Jing Shen

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

3. Nature of conveyance/Execution Date(s):

(1) June 24, 2008, (2) June 24, 2008
Execution Date(s) (3) June 25, 2008, (4) June 24, 2008,

- Assignment (5) June 25, 2008 Merger
- Security Agreement Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

2. Name and address of receiving party(ies)

Name: International Business Machines Corporation

Internal Address: _____

Street Address: New Orchard Road

City: Armonk

State: New York

Country: United States Zip: 10504

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

4. Application or patent number(s):

A. Patent Application No.(s)
12/146,952

This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Michael J. Chang

Internal Address: Michael J. Chang, LLC

Street Address: 84 Summit Avenue

City: Milford

State: Connecticut Zip: 06460

Phone Number: (203) 877-7961

Fax Number: (203) 878-2481

Email Address: mchang@MJC-IPLaw.com

6. Total number of applications and patents involved: 1**7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00**

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 50-0510

Authorized User Name Michael J. Chang

9. Signature:


Signature

October 14, 2008

Date

Michael J. Chang, Reg. No. 46,611

Name of Person Signing

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

11

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Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

YOR920080115US1

700387594

PATENT
REEL: 021671 FRAME: 0966

CH \$40.00 500510 12146952

ASSIGNMENT

Inventor
and City

Whereas, we

(1) Yasuo Amemiya
County of Westchester

of Hartsdale
and State of New York

(2) Hendrik F. Hamann
County of Westchester

of Yorktown Heights
and State of New York

(3) Walter Hirt
County of

of Wettswil
and Country of Switzerland

(4) Ying Hung
County of Fulton

of Atlanta
and State of Georgia

(5) Jing Shen
County of Clarke

of Athens
and state of Georgia

have invented certain improvements in

TITLE

TECHNIQUES TO PREDICT THREE-DIMENSIONAL THERMAL DISTRIBUTIONS IN REAL-TIME

and executed, respectively, a United States patent application therefor on

DATE THAT
INVENTOR
SIGNED THE
DECLARATION

(1) June 24, 2008, (2) _____, 2008, (3) _____, 2008, (4) _____, 2008,
(5) _____, 2008.

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, we, 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 in all foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Signed

(1) *Yasuo Amemiya*
(Yasuo Amemiya) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

on June 24, 2008

(2) _____
(Hendrik F. Hamann) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

on _____, 2008

(3) _____
(Walter Hirt) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

on _____, 2008

(4) _____
(Ying Hung) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

on _____, 2008

(5) _____
(Jing Shen) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

on _____, 2008

ASSIGNMENT

Inventor and City	Whereas, we	
	(1) Yasuo Amemiya County of Westchester	of Hartsdale and State of New York
	(2) Hendrik F. Hamann County of Westchester	of Yorktown Heights and State of New York
	(3) Walter Hirt County of	of Wezwil and Country of Switzerland
	(4) Ying Hung County of Fulton	of Atlanta and State of Georgia
	(5) Jing Shen County of Clarke	of Athens and state of Georgia

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Signed

(1) _____ on _____, 2008
 (Yasuo Amemiya) INVENTOR
 FIRST NAME MIDDLE INITIAL LAST NAME

(2) Hendrik F. Hamann on 6/24, 2008
 (Hendrik F. Hamann) INVENTOR
 FIRST NAME MIDDLE INITIAL LAST NAME

(3) _____
(Walter Hirt) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

on _____, 2008

(4) _____
(Ying Hung) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

on _____, 2008

(5) _____
(Jing Shen) INVENTOR
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on _____, 2008

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(5) _____, 2008.

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Signed

(1) _____ on _____, 2008
(Yasuo Amemiya) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

(2) _____ on _____, 2008
(Hendrik F. Hamann) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

(3) Walter Hirt
(Walter Hirt) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

on 25 JUNE, 2008

(4) _____
(Ying Hung) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

on _____, 2008

(5) _____
(Jing Shen) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

on _____, 2008

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 (Hendrik F. Hamann) INVENTOR
 FIRST NAME MIDDLE INITIAL LAST NAME

(3) _____
(Walter Hirt) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

on _____, 2008

(4) Ying Hung
(Ying Hung) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

on June 24, 2008

(5) _____
(Jing Shen) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

on _____, 2008

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(4) _____
(Ying Hung) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

on _____, 2008

(5) Jing Shen
(Jing Shen) INVENTOR
FIRST NAME MIDDLE INITIAL LAST NAME

on June, 25, 2008