OMB No. 0651-0027 (exp. 6/30/2008)	United States Patent and Trademark Offic
	ORM COVER SHEET
PATENT	SONLY
1 11 11 11 11 11 11 11 11 11 11 11 11 1	se record the attached documents or the new address(es) below.
1. Name of conveying party(les)	2. Name and address of receiving party(ies)
(1) Yasuo Amemiya (2) Hendrik F. Hamann (3) Walter Hirt (4) Ying Hung (5) Jing Shen	Name: International Business Machines Corporation
(4) Thing Finding (5) Sing Griph	Internal Address:
Additional name(s) of conveying party(ies) attached? Yes V	
3. Nature of conveyance/Execution Date(s): [Execution Date(s)(3) June 25, 2008, (4) June 24, 2008,	Street Address: New Orchard Road
Assignment 5 June 25, 2008 Merger	
Security Agreement Change of Name	City: Armonk
Joint Research Agreement	State: New York
Government Interest Assignment	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Executive Order 9424, Confirmatory License	Country: United States Zip: 10504
Other	Additional name(s) & address(es) attached? Yes No
4. Application or patent number(s):	document is being filed together with a new application.
A. Patent Application No.(s) 12/146,952	B. Patent No.(s)
Additional numbers at	tached? Yes V No
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1

Security Agreement Change of Name Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License Other 4. Application or patent number(s): This A. Patent Application No.(s) 12/146,952	City: Armonk State: New York Country: United States Zip: 10504 Additional name(s) & address(es) attached? Yes No document is being filed together with a new application. B. Patent No.(s)
Additional numbers att	ached? Yes 🗸 No
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
Name: Michael J. Chang	7. Total fee (37 CFR 1.21(h) & 3.41) \$_40.00
Internal Address: Michael J. Chang, LLC	Authorized to be charged by credit card Authorized to be charged to deposit account
Street Address: 84 Summit Avenue	EnclosedNone required (government interest not affecting title)
City: Milford	8. Payment Information
State: Connecticut Zip: 06460	a. Credit Card Last 4 Numbers Expiration Date
Phone Number: (203) 877-7961	b. Deposit Account Number 50-0510
Fax Number: <u>(203)</u> 878-2481	
Email Address: mchang@MJC-IPLaw.com	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:
Documents to be recorded (including cover shee Mail Stop Assignment Recordation Services, Director o	t) should be faxed to (571) 273-0140, or mailed to: f the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

ASSIGNMENT

Tona a market and	Whereas, we			
Inventor and City	(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	E-DIMENSIONAL THERN	MAL DISTRIBUTIONS IN	REAL-TIME
	and executed, respectively, a United States	patent application therefor on		
DATE THAT	(1) June 24, 2008, (2)	, 2008, (3)	, 2008, (4)	, 2008,
INVENTOR SIGNED THE DECLARATION	(5), 2008.			
	Whereas, INTERNATIONAL BUSINESS nk, New York 10504, (hereinafter called IB to any United States and foreign patents to	M), desires to acquire the cut		
for the United State application, and w to IBM, its success	Now therefore, for a valuable consideration or to IBM, its successors and assigns, the entitles and foreign countries, and in all foreign over request the Commissioner of Patents to is sors and assigns; and we hereby agree that I ry in connection with the United States and it	ire right, title and interest in the countries, and all rights of priouse any Letters Patent granted BM may apply for foreign Let	ne said application and invention rity resulting from the filing of I upon the inventions set forth tters Patent on said invention as	n therein disclose said United State in said applicatio
	Signed (1) (Yasuo Amemiya) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	ĸ	on Ture 24,2008	
	(2) (Hendrik F. Hamann) INVENT		on, 2008	

Page 1 of 2

(3)	on, 200	8
(Walter Hirt) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME		
(4)	on, 200	8
(5)(Jing Shen) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	on, 200	8

Page 2 of 2

ASSIGNMENT

	Whereas, we					
	(1) Yasuo Amemiya County of Westchest				of Hartsdale and State of New York	
	(2) Hendrik F. Hama County of Westchest				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	improvement	s in			
TITLE	TECHNIQUES TO	PREDICT	THREE-DIMI	ENSIONAL THE	RMAL DISTRIBUTIONS IN	REAL-TIME
	and executed, respec	tively, a Unite	d States patent a	pplication therefor	on	
DATE THAT	(1)	_, 2008, (2)_	6(24	_, 2008, (3)	, 2008, (4)	, 2008,
INVENTOR SIGNED THE DECLARATION	(5)	_, 2008.				
and invention, and assign, and transfe	nk, New York 10504 I to any United States Now therefore, for ser to IBM, its success.	, (hereinafter of and foreign pa a valuable cons ors and assigns	alled IBM), des stents to be obtain sideration, receip to the entire right	ires to acquire the ned therefor, ot whereof is hereb, title and interest in	TION, a corporation of New York entire right, title and interest in t by acknowledged, we, the above to the said application and invention	the said application named, hereby sell, on therein disclosed
application, and w to IBM, its succes	ve request the Commissors and assigns; and	ssioner of Pate we hereby agr	ents to issue any ee that IBM may	Letters Patent gran y apply for foreign	priority resulting from the filing of the the inventions set forth Letters Patent on said invention a called upon to do so by IBM.	in said application
	Signed					
•	(1) (Yasuo A	Amemiya) INV			on, 2008	
	(2) (Hendrik	dih T.		u_	on <u>6124</u> ,2008	

Page 1 of 2

(3)	on, 2008
(Walter Hirt) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	
(4)(Ying Hung) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	on, 2008
(5)(Jing Shen) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	on, 2008

Page 2 of 2

ASSIGNMENT

	Whereas, we	
Inventor and City	(I) 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-DIM	IENSIONAL THERMAL DISTRIBUTIONS IN REAL-TIME
	and executed, respectively, a United States patent	
DATE THAT INVENTOR	(1), 2008, (2)	, 2008, (3) <u>25 JUNE</u> , 2008, (4), 2008,
SIGNED THE DECLARATION	(5), 2008.	
and invention, and assign, and transf for the United Sta application, and v to IBM, its success	nk, New York 10504, (hereinafter called IBM), di to any United States and foreign patents to be obt Now therefore, for a valuable consideration, rece or to IBM, its successors and assigns, the entire rigites tes and foreign countries, and in all foreign countries we request the Commissioner of Patents to issue an	one whereof is hereby acknowledged, we, the above named, hereby select, title and interest in the said application and invention therein disclose es, and all rights of priority resulting from the filling of said United State by Letters Patent granted upon the inventions set forth in said application as apply for foreign Letters Patent on said invention and we will execu
	Signed	•
•	(1) (Yasuo Amemiya) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	on, 2008
	(2) (Hendrik F. Hamand) INVENTOR SIRST NAME MIDDLE INITIAL LAST NAME	on, 200\$

Page 1 of 2

PATENT REEL: 021671 FRAME: 0971

ſ	IBM Docket: YOR920080115US1
(3) Walter Hirt) INVENTOR FIRST NAME MIDDLE DITTAL LAST NAME	on 25 June 2008
(4)	on, 2008
(5) (Jing Shen) INVENTOR FORST NAME MIDDLE INITIAL LAST NAME	on, 2008

ASSIGNMENT

	Whereas, we				
nventor and City	(1) Yasuo Amemiya County of Westchester	r		of Hartsdale and State of New	York
	(2) Hendrik F. Haman County of Westchester			of Yorktown Heig and State of New	
	(3) Walter Hirt County of			of Wettswil and Country of Sv	witzerland
	(4) Ying Hung County of Fulton			of Atlanta and State of Geor	gia
	(5) Jing Shen County of Clarke			of Athens and state of Georg	gia
	have invented certain	improvements in			
TITLE	TECHNIQUES TO	PREDICT THREE-DI	MENSIONAL THERM	(AL DISTRIBUT	TIONS IN REAL-TIME
		ively, a United States paten			_
DATE THAT	(1)	, 2008, (2)	, 2008, (3)	, 2008, (4)	June 24 2008,
INVENTOR SIGNED THE DECLARATION	(5)	, 2008.			
business at Armor and invention, and	nk, New York 10504,	FIONAL BUSINESS MAC (hereinafter called IBM), c and foreign patents to be ob	lesires to acquire the ent	N, a corporation of fire right, title and i	New York, having a place of interest in the said application
for the United Sta application, and v to IBM, its succes	er to IBM, its successontes and foreign countries request the Commissions and assigns; and the control of the control of the country and the c	rs and assigns, the entire riges, and in all foreign countsioner of Patents to issue a	ght, title and interest in the ries, and all rights of price may Letters Patent granted may apply for foreign Let	te said application of the resulting from I upon the invention tters Patent on said	the above named, hereby sell, and invention therein disclosed the filing of said United States as set forth in said application invention and we will execute IBM.
	Signed				
•		memiya) INVENTOR DE INITIAL LAST NAME		on	_, 2008
	(2)(Hendrik FIRST NAME MIDD	F. Hamann) INVENTOR LE INITIAL LAST NAME		on	, 2008

Page 1 of 2

PATENT REEL: 021671 FRAME: 0973

(3)	on, 2008
(Walter Hirt) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	
(1) Yay Hay	on June 24, 2008
Ving Hung) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	
(5)	on, 2008
(Jing Shen) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	

Page 2 of 2

ASSIGNMENT

	Whereas, we					
Inventor and City	(1) Yasuo Amer County of Westo			of Hartsdale and State of I	New York	
	(2) Hendrik F. H. County of Wester			of Yorktown and State of?		
	(3) Walter Hirt County of	,		of Wettswil and Country	of Switzerland	
	(4) Ying Hung County of Fultor	ı		of Atlanta and State of (Georgia	
	(5) Jing Shen County of Clarks	;		of Athens and state of (Georgia	
	have invented ce	rtain improvements in				
TITLE	TECHNIQUES	S TO PREDICT THRE	E-DIMENSIONAL THE	RMAL DISTRI	BUTIONS IN REA	AL-TIME
	and executed, re-	spectively, a United States	patent application therefor	on		
DATE THAT	(1)	, 2008, (2)	, 2008, (3)	, 2008	., (4)	, 2008,
INVENTOR SIGNED THE DECLARATION	(5) June	<u>3,5</u> , 2008.				
business at Arm and invention, at	onk, New York 10	RNATIONAL BUSINESS 504, (hereinafter called IE ates and foreign patents to	MACHINES CORPORATE M), desires to acquire the be obtained therefor;	TON, a corporation entire right, title s	on of New York, has and interest in the s	ving a place o aid application
for the United Stapplication, and to IBM, its succ	sfer to IBM, its suc- tates and foreign or we request the Co essors and assigns:	cessors and assigns, the em- puntries, and in all foreign a mmissioner of Patents to it and we hereby agree that	on, receipt whereof is hereb tire right, title and interest is countries, and all rights of p ssue any Letters Patent gra IBM may apply for foreign foreign applications when o	n the said applicat priority resulting fi nted upon the inve Letters Patent on	ion and invention in rom the filing of said entions set forth in a said invention and v	erem disciose d United State mid application
	Signed					1
•		uo Amemiya) INVENTO MIDDLE INTHAL LAST NAM		on	, 2008	, 1 !
	(2)			on	, 2008	ļ
	(Her	MIDDLE INITIAL LAST NAM				
					Page 1 of 2	† ;

PATENT

REEL: 021671 FRAME: 0975

(3)	on, 2008
(Walter Hirt) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	
(4)	on, 2008
(5) Juggleen (Jing Shen) INVENTOR FIRST NAME MIDDLE DITTIAL LAST NAME	on June, 45, 2008

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PATENT REEL: 021671 FRAME: 0976