Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Alan Claassen	08/09/2007
Hendrik F. Hamann	08/08/2007
Madhusudan K. Iyengar	08/09/2007
James Andrew Lacey	08/09/2007
Yves C. Martin	08/08/2007
Roger R. Schmidt	08/09/2007
Theodore Gerard van Kessel	11/10/2008

RECEIVING PARTY DATA

Name:	International Business Machines Corporation	
Street Address: New Orchard Road		
City:	Armonk	
State/Country:	NEW YORK	
Postal Code:	10504	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11750322

CORRESPONDENCE DATA

500701527

Fax Number: (203)878-2481

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 2038777961

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Correspondent Name: Michael J. Chang Address Line 1: 84 Summit Avenue Address Line 2: Michael J. Chang, LLC

Milford, CONNECTICUT 06460 Address Line 4:

ATTORNEY DOCKET NUMBER: YOR920070177US1

REEL: 021819 FRAME: 0770

PATENT

NAME OF SUBMITTER:	Michael J. Chang	
Total Attachments: 8		
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PATENT REEL: 021819 FRAME: 0771

ASSIGNMENT

f	Whereas, we	
Inventor and City	(1) Alan Claassen County of Alameda	of Fremont and State of California
	(2) Hendrik F. Hamann County of Westchester	of Yorktown Heights and State of New York
	(3) Madhusudan K. Iyengar County of Ulster	of Woodstock and State of New York
,	(4) James Andrew Lacey County of Putnam	of Mahopac and State of New York
	(5) Yves C. Martin County of Westchester	of Ossining and State of New York
	(6) Roger R. Schmidt County of Dutchess	of Poughkeepsie and State of New York
	(7) Theodore Gerard van Kessel County of Dutchess	of Millbrook and State of New York
	have invented certain improvements in	
FITLE	TECHNIQUES FOR DATA CENTER COOLING	
	and executed, respectively, a United States patent application therefor	on
DATE THAT	(1) $A_{s} + 9$, 2007, (2), 2007, (3)	
SIGNED THE DECLARATION	(4), 2007, (5), 2007, (6)	, 2007,
k.	(7), 2007.	TOY
	Whereas, INTERNATIONAL BUSINESS MACHINES CORPORAT Orchard Road, Armonk, New York 10504, (hereinafter called IBM) do n and invention, and to any United States and foreign patents to be obta	esires to acquire the entire right, title and interest in
assign, and transfe for the United Stat he Commissioner assigns; and we he	Now therefore, for a valuable consideration, receipt whereof is hereby to IBM, its successors and assigns, the entire right, title and interest in the sand foreign countries, and all rights of priority resulting from the file of Patents to issue any Letters Patent granted upon the inventions set ereby agree that IBM may apply for foreign Letters Patent on said in the United States and foreign applications when called upon to do so by I	n the said application and invention therein disclosed ing of said United States application, and we request forth in said application to IBM, its successors and vention and we will execute all papers necessary in
CITY DATE	Signed (1) at Fremont, CA on west 9, 2007, (Alan Claassen) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	SIGNATURE

CITY	Signed (2) at Yorktown Heights, NY	SIGNATURE
DATE	on, 2007, (Hendrik F. Hamann) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	SIGNATORE
СПУ	Signed (3) at Poughkeepsie, NY	SIGNATURE
DATE	on, 2007, (Madhusudan K. Iyengar) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	
CITY	Signed	
CITY DATE	(4) at Yorktown Heights, NY on, 2007, (James Andrew Lacey) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	SIGNATURE
CITY	Signed	
CITY DATE	(5) at Yorktown Heights, NY on, 2007, (Yves C. Martin) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	SIGNATURE
CITY	Signed (6) at Poughkeepsie, NY	SIGNATURE
DATE	on, 2007, (Roger R. Schmidt) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	SIGNATURE
Olms /	Signed	
CITY DATE	(7) at Yorktown Heights, NY on, 2007, (Theodore Gerard van Kessel) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	SIGNATURE

ASSIGNMENT

		Whereas, we	
Inventor and City	¢	(1) Alan Claassen County of Alameda	of Fremont and State of California
		(2) Hendrik F. Hamann County of Westchester	of Yorktown Heights and State of New York
		(3) Madhusudan K. Iyengar County of Ulster	of Woodstock and State of New York
		(4) James Andrew Lacey County of Putnam	of Mahopac and State of New York
		(5) Yves C. Martin County of Westchester	of Ossining and State of New York
		(6) Roger R. Schmidt County of Dutchess	of Poughkeepsie and State of New York
		(7) Theodore Gerard van Kessel County of Dutchess	of Millbrook and State of New York
		have invented certain improvements in	
TITLE		TECHNIQUES FOR DATA CENTER COOLING	
		and executed, respectively, a United States patent application therefor	on} /
DATE THAT INVENTOR		(1), 2007, (2), 2007, (3)	8/09 2007.
SIGNED THE DECLARATIO	N	(4), 2007, (5), 2007, (6)	, 2007.
		(7), 2007. Whereas. INTERNATIONAL BUSINESS MACHINES CORPORAT	FIGNI a comparation of New York having a place of
	v C	Orchard Road, Armonk, New York 10504, (hereinafter called IBM) do and invention, and to any United States and foreign patents to be obtained.	lesires to acquire the entire right, title and interest in
for the United S the Commission assigns: and we	sfei tate ter he	Now therefore, for a valuable consideration, receipt whereof is hereby to IBM, its successors and assigns, the entire right, title and interest in the successors and assigns, the entire right, title and interest in the successor is successors and all rights of priority resulting from the fill of Patents to issue any Letters Patent granted upon the inventions set except agree that IBM may apply for foreign Letters Patent on said in the United States and foreign applications when called upon to do so by	n the said application and invention therein disclosed ling of said United States application, and we request t forth in said application to IBM, its successors and vention and we will execute all papers necessary in
CITY		Signed (1) at Rochester, MN	SIGNATURE
DATE		on, 2007, (Alan Claassen) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	

CITY DATE	Signed (2) at Yorktown Heights, NY on, 2007, (Hendrik F. Hamann) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	SIGNATURE
CITY DATE	Signed (3) at Poughkeepsie, NY on 08/09 . 2007. (Madhusudan K. Iyengar) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	SIGNATURE
CITY DATE	Signed (4) at Yorktown Heights, NY on, 2007, (James Andrew Lacey) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	SIGNATURE
CITY DATE	Signed (5) at Yorktown Heights, NY on, 2007, (Yves C. Martin) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	SIGNATURE
CHY DATE	Signed (6) at Poughkeepsie, NY on 19, 17, 2007. (Roger R. Schmidt) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	SIGNATURE
CITY DATE	Signed (7) at Yorktown Heights, NY on, 2007. (Theodore Gerard van Kessel) INVENTOR	SIGNATURE

ASSIGNMENT

and City (1) Alan Claassen County of Alameda (2) Hendrik F. Hamann County of Westchester (3) Madhusudan K. Iyengar County of Utster (4) James Andrew Lacey County of Putnam (5) Yves C. Martin County of Westchester (6) Roger R. Schmidt County of Westchester (7) Theodore Gerard van Kessel County of Dutchess (7) Theodore Gerard van Kessel County of Dutchess (8) TECHNIQUES FOR DATA CENTER COOLING and executed, respectively, a United States patent application therefor on DATE THAT INVENTOR SIGNED THE DECLARATION Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place business at New Orchard Road, Armonk, New York 10504, (hercinafter called IBM) desires to sequire the entire right, title and interest 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 assign, and transfer to IBM, its successors and assigns, 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 assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein discle for the United States and foreign countries, and all rights of priority resulting from the filling of said United States application, and we response to whether the United States and foreign applications when called upon to do so by IBM. Signed		Whereas, we	
County of Westchester (3) Madhusudan K. Iyengar County of Ulster (4) James Andrew Lacey County of Putnam (5) Yves C. Martin County of Westchester (6) Roger R. Schmidt County of Dutchess (7) Theodore Gerard van Kessel County of Dutchess (7) Theodore Gerard van Kessel County of Dutchess (8) Roger R. Schmidt County of Dutchess (9) Mahopae (1) Theodore Gerard van Kessel County of Dutchess (1) Theodore Gerard van Kessel County of Dutchess (2) Millbrook And State of New York (3) Theodore Gerard van Kessel County of Dutchess (4) Jerophysical State of New York (5) Roger R. Schmidt County of Dutchess (6) Roger R. Schmidt County of Dutchess (7) Theodore Gerard van Kessel County of Dutchess (8) Millbrook And State of New York (9) Millbrook And State of New York (10) Jerophysical State of New York (11) Jerophysical State of New York (12) Jerophysical State of New York (13) Jerophysical State of New York (14) Jerophysical State St	Inventor and City		
County of Ulster (4) James Andrew Lacey County of Putnam (5) Yves C. Martin County of Westchester (6) Roger R. Schmidt County of Dutchess (7) Theodore Gerard van Kessel County of Dutchess (7) Theodore Gerard van Kessel County of Dutchess (8) Average of Millbrook And State of New York (9) Millbrook And State of New York (17) Theodore Gerard van Kessel County of Dutchess And State of New York (18) Average of Millbrook And State of New York (19) Theodore Gerard van Kessel County of Dutchess And State of New York (10) Theodore Gerard van Kessel County of Dutchess And State of New York (10) Theodore Gerard van Kessel County of Dutchess And State of New York (11)			<u> </u>
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County of Westchester (6) Roger R. Schmidt County of Dutchess (7) Theodore Gerard van Kessel County of Dutchess (7) Theodore Gerard van Kessel County of Dutchess (7) Theodore Gerard van Kessel County of Dutchess have invented certain improvements in TITLE TECHNIQUES FOR DATA CENTER COOLING and executed, respectively, a United States patent application therefor on DATE THAT (1)			
County of Dutchess (7) Theodore Gerard van Kessel County of Dutchess (7) Theodore Gerard van Kessel County of Dutchess have invented certain improvements in TITLE TECHNIQUES FOR DATA CENTER COOLING and executed, respectively, a United States patent application therefor on DATE THAT (1)			——————————————————————————————————————
County of Dutchess and State of New York have invented certain improvements in TITLE TECHNIQUES FOR DATA CENTER COOLING and executed, respectively, a United States patent application therefor on DATE THAT (1)		· · · · ·	•
and executed, respectively, a United States patent application therefor on DATE THAT (1), 2007, (2), 2007, (3), 2007, (3), 2007, (7), 2007, (8), 2007, (9), 2007, (9), 2007, (9), 2007, (9), 2007, (9), 2007, (9), 2007, (9), 2007, (9), 2007, (9), 2007, (9), 2007, (9), 2007, (9)			
and executed, respectively, a United States patent application therefor on DATE THAT (1)		have invented certain improvements in	
DATE THAT (1), 2007, (2), 2007, (3), 2007, [3], 2007, [3], 2007, [5], 2007, [6], 2007, [6], 2007, [7], 2007. Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place business at New Orchard Road, Armonk, New York 10504, (hereinafter called IBM) desires to acquire the entire right, title and interest 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 assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclose for the United States and foreign countries, and all rights of priority resulting from the filling of said United States application, and we require the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary connection with the United States and foreign applications when called upon to do so by IBM. Signed	TITLE	TECHNIQUES FOR DATA CENTER COOLING	
Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place business at New Orchard Road, Armonk, New York 10504, (hereinafter called IBM) desires to acquire the entire right, title and interest 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 assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclose for the United States and foreign countries, and all rights of priority resulting from the filling of said United States application, and we require the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary connection with the United States and foreign applications when called upon to do so by IBM. Signed		and executed, respectively, a United States patent application therefor on	
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COLUMN TANKEN TO	for the United Sta the Commissioner assigns; and we h	er to IBM, its successors and assigns, the entire right, title and interest in the tes and foreign countries, and all rights of priority resulting from the filing or of Patents to issue any Letters Patent granted upon the inventions set fort tereby agree that IBM may apply for foreign Letters Patent on said inventions.	said application and invention therein discloses of said United States application, and we reques h in said application to IBM, its successors and ion and we will execute all papers necessary in
	CITY		SIGNATURE
DATE on, 2007, (Alan Claassen) INVENTOR		on , 2007, (Alan Claassen) INVENTOR	5.5

CITY DATE	Signed (2) at Yorktown Heights, NY on 08-08, 2007, (Hendrik F. Hamann) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	SIGNATURE
CITY DATE	Signed (3) at Poughkeepsie, NY on, 2007, (Madhusudan K. Iyengar) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	SIGNATURE
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ASSIGNMENT

Inventor	Whereas, we				
and City	(1) Alan Claassen County of Alameda			of Fremont and State of California	
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DATE THAT	(1)2007,	(2)	, 2007, (3)		
SIGNED THE DECLARATION	(4)2007,		, 2007, (6)	, 2007,	
	(7) 8/7 2007.				
		York 10504, (hereinaft	ter called IBM) desire	, a corporation of New York, his to acquire the entire right, title therefor;	
for the United Stathe Commissioner assigns; and we h	or to IBM, its successors and as tes and foreign countries, and a foreign countries, and a for Patents to issue any Letter	ssigns, the entire right, tall rights of priority resums Patent granted upon topy for foreign Letters	title and interest in the ulting from the filing o the inventions set fort Patent on said inventi	knowledged, we, the above name said application and invention to said United States application in said application to IBM, its ion and we will execute all paper.	herein disclosed, and we request successors and
CITY	Signed (1) at Rochester, MN				SIGNATURE
DATE	on 2007,	(Alan Claassen) INVI		444	U.G.TAL OKS

CITY	Signed (2) at Yorktown Heights, NY	SIGNATURE
DATE	on 2007, (Hendrik F. Hamann) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	SIGNATURE
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DATE	(3) at Poughkeepsie, NY on	SIGNATURE
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DATE	(4) at Yorktown Heights, NY on2007, (James Andrew Lacey) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	SIGNATURE
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DATE	on, 2007, (Yves C. Martin) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	
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DATE	on, 2007, (Roger R. Schmidt) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	
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CITY	(7) at Norktown Heights, NY There to be	SIGNATURE
DATE	on 1/10/04 1907, (Theodore Gerard van Kessel) INVENTOR FIRST NAME MIDDLE INITIAL LAST NAME	