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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Moises Cases	02/27/2009
Jinwoo Choi	03/02/2009
Bhyrav Mutnury	02/27/2009
Navraj Singh	03/02/2009
Caleb J. Wesley	03/02/2009

RECEIVING PARTY DATA

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State/Country:	NEW YORK
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12398535

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ATTORNEY DOCKET NUMBER:	AUS920080804US1

NAME OF SUBMITTER: Eustace P. Isidore

PATENT

REEL: 022351 FRAME: 0075

\$40.00

Total Attachments: 7 source=AUS920080804US1_Assignment#page1.tif source=AUS920080804US1_Assignment#page2.tif source=AUS920080804US1_Assignment#page3.tif source=AUS920080804US1_Assignment#page4.tif source=AUS920080804US1_Assignment#page5.tif source=AUS920080804US1_Assignment#page6.tif

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ASSIGNMENT

Whereas, the undersigned Inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") in:

Title of the Invention: SWARM INTELLIGENCE FOR ELECTRICAL DESIGN SPACE MODELING AND OPTIMIZATION

•	Docket Number provided above in the header of this Assignment, for States Patent was executed concurrently herewith or was filed having:
Serial Number:	(insert series code and serial number here if/when available)
ousiness at Armonk, New York (Inventor desires to grant to IBM,	Machines Corporation, a corporation of New York having a place of nerein referred to as "IBM"), desires to acquire, and each undersigned the entire worldwide right, title, and interest in and to the Invention and actions and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned Inventor ("ASSIGNOR") hereby sells, assigns, and otherwise transfers to IBM (the "ASSIGNEE"), its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned Inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to İBM, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by IBM, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned Inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal representatives, or assigns.

Each undersigned Inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned Inventor also hereby grants IBM, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent application Serial Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

Page 1 of 7

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IBM DOCKET NUMBER: AUS920080804US1 [Inventor Signature Pages Follow]

Page 2 of 7

Assignment Form final 081908.doc

	Executed 1	by Inventor 1 of 5
	_	, ,
Signature:	Moises Cases	Date: 2/27/2009
Signature:	Moises Cases	Date: 2/27/2009

Page 3 of 7

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	Executed by	Inventor 2 of 5	
	4.4		
Signature:	Mai simulon	Date:	03/02/09
	Jinwoo Choi		·

Page 4 of 7

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TRM	DOCKET	NUMBER.	AUS920080804US1
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Executed by Inventor 3 of 5

Signature: M. Bhyrav Muthury

Date: 02/27/2009

Page 5 of 7

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Executed by Inventor 4 of 5		
Signature: Navraj Singh	Date: 3/2/09	
Navraj Singh	,	

Page 6 of 7

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Executed by Inventor 5 of 5		
Signature: Calch Westin	Date: $3 - 2 - 09$	
Signature: Calch Mesley Caleb J. Wesley	•	

Page 7 of 7

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PATENT REEL: 022351 FRAME: 0083

RECORDED: 03/05/2009