PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Yuan-Chi Chang	06/09/2011
Lawrence Koved	06/10/2011
Christian A. Lang	06/14/2011
Igor Sominsky	06/21/2011

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:	13169514

CORRESPONDENCE DATA

Fax Number: (516)759-9512

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

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Address Line 1: 90 FOREST AVENUE

Address Line 2: RYAN, MASON & LEWIS, LLP

Address Line 4: LOCUST VALLEY, NEW YORK 11560

ATTORNEY DOCKET NUMBER: YOR920110001US1

NAME OF SUBMITTER: William E. Lewis

Total Attachments: 8

PATENT REEL: 026506 FRAME: 0450 l \$40,00 131695

501577437



PATENT REEL: 026506 FRAME: 0451

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

Title of the Invention: MULTI-GRANULARITY HIERARCHICAL AGGREGATE SELECTION BASED ON UPDATE, STORAGE AND RESPONSE CONSTRAINTS

•	umber provided above in the header of this Assignment, for nt was executed concurrently herewith or was filed having:
Serial Number:	(insert series code and serial number here if/when available)
business at Armonk, New York (herein refe	Corporation, a corporation of New York having a place of rred to as "IBM"), desires to acquire, and each undersigned vorldwide right, title, and interest in and to the Invention and

in and to any and all patent applications 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 IBM, 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,

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.

and assigns, whenever requested by IBM, its successors, legal representatives, or assigns.

[Inventor Signature Page(s) Follows]

	Executed by D	nventor 1	
Signature:	Muchi Chang	Date: June, 9, 2011	
	Executed by Ir	nventor 2	
Signature: _	Lawrence Koved	Date:	
No. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.	Executed by In	iventor 3	
Signature:	Christian A. Lang	Date:	
	Executed by Inv	ventor 4	
Signature:	lgor Sominsky	Date:	

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Title of the Invention: MULTI-GRANULARITY HIERARCHICAL AGGREGATE SELECTION BASED ON UPDATE, STORAGE AND RESPONSE CONSTRAINTS

and further identified by the IBM Docket Newhich an application for a United States Pat	Number provided above in the header of this Assignment, for ent was executed concurrently herewith or was filed having:
Serial Number:	_(insert series code and serial number here if/when available)
business at Armonk, New York (herein ref	Corporation, a corporation of New York having a place of erred to as "IBM"), desires to acquire, and each undersigned worldwide right, title, and interest in and to the Invention 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 IBM, 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.

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[Inventor Signature Page(s) Follows]

Page 1 of 2

PATENT REEL: 026506 FRAME: 0454

	Executed by Inventor 1	
Signature:	Yuan-Chí Chang	
Signature:	Executed by Inventor 2 Activated Date: 6/10/11 Lawrence Koved	
Signature:	Executed by Inventor 3 Date:	
	Christian A. Lang Executed by Inventor 4	
Signature:	Date;	

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

Title of the Invention: MULTI-GRANULARITY HIERARCHICAL AGGREGATE SELECTION BASED ON UPDATE, STORAGE AND RESPONSE CONSTRAINTS

	Ret Number provided above in the header of this Assignment, for a 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 (herein	ines Corporation, a corporation of New York having a place of a referred to as "IBM"), desires to acquire, and each undersigned tire worldwide right, title, and interest in and to the Invention and and patents directed thereto;

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[Inventor Signature Page(s) Follows]

	Executed by Inventor 1	
Signature:	Yuan-Chi Chang	
	Executed by Inventor 2	
Signature:	Date:Date:	
	Executed by Inventor 3	
Signature:	Executed by Inventor 3 Date: 06/14/11	
	Executed by Inventor 4	
Signature:	Date:	

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

Title of the Invention: MULTI-GRANULARITY HIERARCHICAL AGGREGATE SELECTION BASED ON UPDATE, STORAGE AND RESPONSE CONSTRAINTS

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ousiness at Armonk, New York (Inventor desires to grant to IBM,	Machines Corporation, a corporation of New York having a place of (herein referred to as "IBM"), desires to acquire, and each undersigned the entire worldwide right, title, and interest in and to the Invention and eations and patents directed thereto;

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Signature: _	Yuan-Chi Chang
	Executed by Inventor 2
Signature:	Lawrence Koved
	Executed by Inventor 3
Signature:	Date: Date:
	Executed by Inventor 4
Signature:	Date: 6/21/2011

Page 2 of 2