503799767 04/26/2016 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT			
NATURE OF CONVEYA	NCE:	ASSIGNMENT	ASSIGNMENT			
CONVEYING PARTY	ΑΤΑ	I				
		Name	Execution Date			
NARESH K. CHAINANI			06/24/2015			
GARTH A. DICKIE			06/29/2015			
IAN R. FINLAY			06/25/2015			
ROBIN D. GROSMAN			06/25/2015			
RECEIVING PARTY DATA						
Name: International Business Machines Corporation						
Street Address:	New C	rchard Road				
City:	Armon	Armonk				
State/Country:	NEW	/ORK				
Postal Code:	10504	10504				
Property Type		Number				
Application Number: 15138577						
Application Number:		10100077				
	DATA	13130377				
CORRESPONDENCE Fax Number:		(301)762-4056				
CORRESPONDENCE Fax Number: <i>Correspondence will I</i>	be sent t	(301)762-4056 o the e-mail address first; if that is				
CORRESPONDENCE Fax Number: Correspondence will I using a fax number, if	be sent t	(301)762-4056				
CORRESPONDENCE Fax Number: <i>Correspondence will I using a fax number, if</i> Phone: Email:	be sent to provide	(301)762-4056 o the e-mail address first; if that is d; if that is unsuccessful, it will be 301-424-3640 epatent@usiplaw.com				
CORRESPONDENCE Fax Number: <i>Correspondence will I using a fax number, if</i> Phone: Email: Correspondent Name:	be sent to provide	(301)762-4056 o the e-mail address first; if that is d; if that is unsuccessful, it will be 301-424-3640 epatent@usiplaw.com EDELL, SHAPIRO & FINNAN, LLC	sent via US Mail.			
CORRESPONDENCE Fax Number: <i>Correspondence will I using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1:	be sent to provide	(301)762-4056 o the e-mail address first; if that is d; if that is unsuccessful, it will be 301-424-3640 epatent@usiplaw.com EDELL, SHAPIRO & FINNAN, LLC 9801 WASHINGTONIAN BOULEVA	sent via US Mail.			
CORRESPONDENCE I Fax Number: <i>Correspondence will I using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	be sent to provide	(301)762-4056 o the e-mail address first; if that is d; if that is unsuccessful, it will be 301-424-3640 epatent@usiplaw.com EDELL, SHAPIRO & FINNAN, LLC 9801 WASHINGTONIAN BOULEVA SUITE 750	sent via US Mail.			
CORRESPONDENCE I Fax Number: <i>Correspondence will I using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	be sent to	(301)762-4056 b the e-mail address first; if that is d; if that is unsuccessful, it will be 301-424-3640 epatent@usiplaw.com EDELL, SHAPIRO & FINNAN, LLC 9801 WASHINGTONIAN BOULEVA SUITE 750 GAITHERSBURG, MARYLAND 208	sent via US Mail. NRD			
CORRESPONDENCE I Fax Number: <i>Correspondence will I using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	be sent to	(301)762-4056 o the e-mail address first; if that is d; if that is unsuccessful, it will be 301-424-3640 epatent@usiplaw.com EDELL, SHAPIRO & FINNAN, LLC 9801 WASHINGTONIAN BOULEVA SUITE 750 GAITHERSBURG, MARYLAND 208 CA920150014US2/0920.0405	sent via US Mail. NRD			
CORRESPONDENCE I Fax Number: <i>Correspondence will I using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER:	be sent to	(301)762-4056 o the e-mail address first; if that is d; if that is unsuccessful, it will be 301-424-3640 epatent@usiplaw.com EDELL, SHAPIRO & FINNAN, LLC 9801 WASHINGTONIAN BOULEVA SUITE 750 GAITHERSBURG, MARYLAND 208 CA920150014US2/0920.0405 RICHARD C. IRVING	sent via US Mail. NRD			
CORRESPONDENCE I Fax Number: <i>Correspondence will I using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 2: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER: BIGNATURE:	be sent to	(301)762-4056 o the e-mail address first; if that is d; if that is unsuccessful, it will be 301-424-3640 epatent@usiplaw.com EDELL, SHAPIRO & FINNAN, LLC 9801 WASHINGTONIAN BOULEVA SUITE 750 GAITHERSBURG, MARYLAND 208 CA920150014US2/0920.0405	sent via US Mail. NRD			
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DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT

Title of Invention: QUERY PROCESSING USING A DIMENSION TABLE IMPLEMENTED AS DECOMPRESSION DICTIONARIES

As a below named and undersigned inventor, I hereby declare that:

This declaration is directed to the attached application, or (if following box is checked):

[x] United States application or PCT international application number <u>14/753,752</u> filed on June 29, 2015.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, I ("ASSIGNOR") have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application and further identified by the IBM Docket Number provided above in the header of this document;

Whereas, International Business Machines Corporation (herein referred to as the "ASSIGNEE"), a corporation of New York having a place of business at Armonk, New York, desires to acquire, and I desire to grant to the ASSIGNEE, my entire worldwide 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, I hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to the ASSIGNEE, its successors, legal representatives, and assigns, my 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, I hereby authorize and request 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 the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, 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 me had this Assignment not been made; and I agree 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 the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

Date:

to knowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this assignment to the ASSIGNEE and an unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed and will not execute any document or instrument in conflict herewith. I also hereby grant the ASSIGNEE, its successors legal representatives, and assigns, the right to insert in this Assignment assignment is desirable for ecordation of this Assignment. This Assignment is governed by the instrument is governed by the successary or desirable for ecordation of this Assignment. This Assignment is governed by the instrument are law of the State of New York, and any disputes will be resolved in a New York state court or indent court sted in New York.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18. U.S.(...1001 by fibe or imprisonment of not more than five (5) years, or both

(1) Legal Name of Inventor Naresh K. Chamaric

(2) Legal Name of Inventor: Garth A. Dickie

Signature

(3) Legal Name of Inventor: Jan R. Finlay

Signature:______Date:_____

(4) Legal Name of Inventor. Robin D. Grosman

Signature:_____Date:_____ PATENT REEL: 038523 FRAME: 0312

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Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to the ASSIGNEE, its successors, legal representatives, and assigns, my 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, I hereby authorize and request 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 the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, 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 me had this Assignment not been made; and I agree 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 the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. I also hereby grant the ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application 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.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

(1) Legal Name of Inventor: Naresh K. Chainani

	Signature:		nn, Date: ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
(2)) Legal Name of Inventor: Garth A.	. Dickie	
	Signature:		Date: 6/29/15
	the state of the s		

(3) Legal Name of Inventor: Ian R. Finlay

Signature:_____Date:_____

(4) Legal Name of Inventor: Robin D. Grosman

Signature: _____ Date:

Page 2 of 2

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Page 1 of 2

Date

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(1) Legal Name of Inventor: Naresh K. Chainani

Signature:

Signature:

(3) Legal Name of Inventor: Ian R. Finlay

(2) Legal Name of Inventor: Garth A. Dickie

Date: 25 Jun 2015 Signature

(4) Legal Name of Inventor: Robin D. Grosman

Date June 25,205. Signature

Page 2 of 2

PATENT REEL: 038523 FRAME: 0316

RECORDED: 04/26/2016