

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Sriram K Padmanabhan</td><td>10/27/2003</td></tr><tr><td>Sam Sampson Lightstone</td><td>11/18/2003</td></tr><tr><td>Richard E Swagerman</td><td>11/18/2003</td></tr></tbody></table>		Name	Execution Date	Sriram K Padmanabhan	10/27/2003	Sam Sampson Lightstone	11/18/2003	Richard E Swagerman	11/18/2003
Name	Execution Date								
Sriram K Padmanabhan	10/27/2003								
Sam Sampson Lightstone	11/18/2003								
Richard E Swagerman	11/18/2003								
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									
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>10993567</td></tr></tbody></table>		Property Type	Number	Application Number:	10993567				
Property Type	Number								
Application Number:	10993567								
CORRESPONDENCE DATA									
Fax Number: (408)521-0111 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone: 4083235111									
Email: orbsak@pacbell.net									
Correspondent Name: Samuel A. Kassatly									
Address Line 1: 20690 View Oaks Way									
Address Line 4: San Jose, CALIFORNIA 95120									
NAME OF SUBMITTER:	Samuel A. Kassatly								
Total Attachments: 2 source=Assginment#page1.tif source=Assginment#page2.tif									

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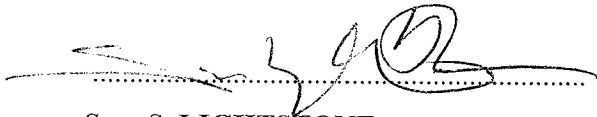
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PATENT
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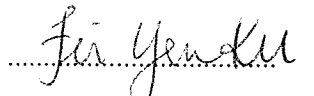
ASSIGNMENT OF ALL INTEREST

WE, (1) **Sam S. LIGHTSTONE**; (2) **Sriram K. PADMANABHAN**; (3) **Richard E. SWAGERMAN**, whose full post office addresses are: (1) 60 Hillmount Avenue, Toronto, Ontario, Canada M6B 1X4; (2) Four Ingham Road, Briarcliff Manor, N.Y. 10510, USA; (3) 95 Milldock Drive, Toronto, Ontario, Canada M1C 4M1, for which good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, do hereby sell and assign to **INTERNATIONAL BUSINESS MACHINES CORPORATION**, whose full post office address is New Orchard Road, Armonk, New York, United States of America, all my interest in all countries excluding Canada, including all rights under the International Convention, in and to my invention relating to **ESTIMATING STORAGE REQUIREMENTS FOR A MULTI- DIMENSIONAL CLUSTERING DATA CONFIGURATION** as fully described and claimed in my application for a patent for such invention and to all my corresponding right, title and interest in and to any patent which may issue therefor.

Signed at Markham, Ontario, Canada this 18th day of November, 2003.

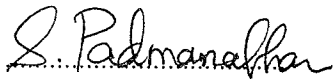


Sam S. LIGHTSTONE

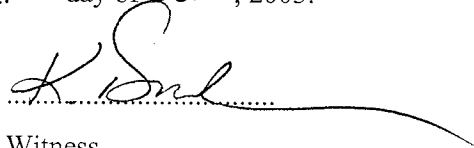


Witness

Signed at HAWTHORNE, N.Y., USA this 27th day of Oct, 2003.



Sriram K. PADMANABHAN

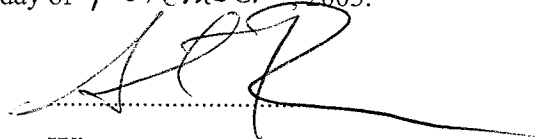


Witness

Signed at Markham, Ontario, Canada this 18th day of November, 2003.



Richard E. SWAGERMAN



Witness

CA9-2003-0017

VERIFICATION

I, FEI YEN KU whose full post office address is, 558 SEWELL'S RD. TORONTO, ONT. M1B 5E7 CANADA make oath and say that I was personally present and did see **Sam S. LIGHTSTONE**, who is personally known to me to be the person named in the above assignment, duly sign and execute the same.

Fei Yen Ku
Witness

VERIFICATION

I, Kethy K Duviella whose full post office address is, 182 N Bdwy
Yonkers, New York 10701 USA make oath and say that I was personally present and did see **Sriram K. PADMANABHAN**, who is personally known to me to be the person named in the above assignment, duly sign and execute the same.

Kid
Witness

VERIFICATION

I, Steve Rees whose full post office address is, 117 Apple Blossom
Bld. Bowmanville ON L1C 4T8 make oath and say that I was personally present and did see **Richard E. SWAGERMAN**, who is personally known to me to be the person named in the above assignment, duly sign and execute the same.

STR
Witness

CA9-2003-0017