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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): 1. Marcus F. Fontoura 2. Reiner Kraft 3. Tony K. Leung 4. John Ai McPherson Jr. 5. Andreas Neumann 6. Runping Qi 7. Sridhar Rajagopalan 8. Eugene J. Shekita 9. Jason Yeong Zien Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Execution Date 1. February 26, 2004 2. February 26, 2004 3. February 19, 2004 4. February 19, 2004 5. February 19, 2004 6. February 18, 2004 7. February 26, 2004 8. February 26, 2004 9. February 26, 2004	2. Name and address of receiving party(ies): International Business Machines Corporation New Orchard Road Armonk, New York 10504 Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other			
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: _____ A. Patent Application No.(s): 10/764,772 B. Patent No.(s): _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed: Janaki K. Davda KONRAD RAYNES & VICTOR, LLP 315 S. Beverly Drive, Suite 210 Beverly Hills, CA 90212		6. Total number of applications and patents involved: [1] 7. Total fee (37 CFR 3.41):5 40 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: 09-0460 (Attach duplicate copy of this page if paying by deposit account)	

DO NOT USE THIS SPACE**9. Statement and signature.***To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.*Janaki K. Davda
Name of Person Signing
SignatureMay 11, 2004
Date

Total number of pages including cover sheet, attachments and document: [3]

OMB No. 0651-0011 (exp. 4/94)

CERTIFICATE UNDER 37 CFR 1.8:

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Vanessa Sampson Jackson

5/11/04

Date

PATENT

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REEL: 014617 FRAME: 0724

CH \$40.00 090460 10764772

Docket: SVL920030120US1
0056.0021

ASSIGNMENT

Whereas, we

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AND CITY

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(4) John Ai McPherson Jr.
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of Gilroy
and State of California
of Cupertino
and State of
of Oakland
and State of California
of San Jose
and State of California
of San Jose
and State of California

have invented certain improvement in

TITLE A PIPELINED ARCHITECTURE FOR GLOBAL ANALYSIS AND INDEX BUILDING

DATES THAT
INVENTORS
SIGNED THE
DECLARATION

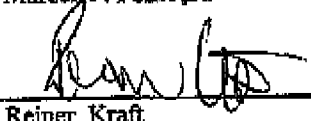
and executed, respectively, a United States patent application therefore on
(1) January 18, 2004, (2) January 18, 2004, (3) January 19, 2004, (4) January 19, 2004, (5) January 19,
2004, (6) January 19, 2004, (7) January 20, 2004, (8) January 19, 2004, and (9) January 19, 2004

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York,
having a place of business at Armonk, New York 10504, (hereinafter called IBM CORPORATION), desires to
acquire the entire right, title and interest in the said application and invention, and to any United States and foreign
patents to be obtained therefore;


Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, the above named,
hereby sell, assign, and transfer to IBM CORPORATION, its successors and assigns, the entire right, title and
interest in the said application and invention therein disclosed for the United States and foreign countries, and all
rights of priority resulting from the filing of said United States application, and I request the Commissioner of
Patents to issue any Letters Patent granted upon the invention set forth in said application to IBM
CORPORATION, its successors and assigns; and I hereby agree that IBM CORPORATION may apply for foreign
Letters Patent on said invention and I will execute all papers necessary in connection with the United States and
foreign applications when called upon to do so by IBM CORPORATION.


Signed and sealed

Docket: SVL920030120US1
0056.0021CITY (1) at San Jose
DATE on 2/26, 2004,


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