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Docket No.: CHA920050005US1

U.S. DEPARTMENT OF COMMERCE
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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): William A. Tulske Vamsi K. Vutukuru		2. Name and address of receiving party(ies) Name: International Business Machines Corporation Street Address: New Orchard Road City: Armonk State/Prov.: New York Country: USA ZIP: 10504	
Additional name(s) of conveying party(ies) 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 _____			
Execution Date: 08/04/05 and 8/03/05		Additional Name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

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:	
Patent Application No. 11/199,456	Filing Date 08/08/2005
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: Name: Michael F. Hoffman Reg. No.: 40,019 Address: Hoffman, Warnick & D'Alessandro LLC 75 State Street - 14th Floor Albany NY 12207 Country: USA Zip: 12207		6. Total number of applications and patents 1
		7. Total fee (37 CFR 3.41).....\$ 40.00 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account
		8. Deposit account number: (Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.		
Michael F. Hoffman - Reg. No. 40,019		August 17, 2005
Name of Person Signing	Signature	Date
Total number of pages including cover sheet, attachments, and documents: 4		

PATENT ASSIGNMENT FORM

For and in consideration of good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor acknowledges his/her prior and ongoing obligation to sell, assign, and transfer, and agrees to sell, assign, and transfer the entire world wide right, title and interest for the United States and all foreign countries, in and to any and all inventions and improvements conceived during and within the scope of his/her employment, and further acknowledges that he/she has sold, assigned, and transferred, and hereby sells, assigns, and transfers, unto:

**INTERNATIONAL BUSINESS MACHINES ("IBM"),
Armonk, New York 10504**

a corporation of New York, and IBM desires to acquire all right, title, and interest, in and to the certain inventions (identified below), applications, and any United States and foreign patents to be obtained therefor relating to:

**SYSTEM AND METHOD FOR PROVIDING CONTENT BASED ANTICIPATIVE STORAGE
MANAGEMENT**

as set forth in United States Patent Application identified by Attorney Docket Number CHA920050005US1 and

(select one): ☒ executed concurrently herewith or ☐ Serial No. 11/199,456 Filed on August 8, 2005

including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States and foreign patents and all rights of priority to be obtained therefor which may issue on any such application or for said invention therein disclosed, including any and all reissues or extensions thereof, to be held and enjoyed by, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each undersigned inventor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to IBM, its successors and assigns, in accordance herewith;

Each undersigned inventor warrants and covenants that he/she has the full and unencumbered right to sell and assign the interests hereby sold and assigned and that he/she has not executed and will not execute any document or instrument in conflict herewith;

Each undersigned inventor further covenants and agrees that he/she, upon the request and at the expense of IBM, will execute and deliver any papers, make all rightful oaths, testify in any legal proceeding relating to said inventions and improvements, communicate to IBM all facts known to the undersigned relating to such inventions and improvements and the history thereof; and perform all other lawful acts deemed necessary or desirable by IBM, and its legal representatives, to secure, maintain, and enforce patent protection for such inventions and improvements and for vesting title to such inventions and improvements in the invention(s), and in particular to perfect title to said above-identified certain inventions, and applications including divisions and continuations thereof, and any and all Letters Patent which may be granted therefor or thereon, including reissues, extensions, or counterparts;

Each undersigned inventor hereby grants IBM and the firm of Hoffman, Warnick & D'Alessandro LLC the power to insert in this Assignment any further identification 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.

PATENT
DOCKET NO.: CHA920050005US1

Executed by Inventor 1 of 2

Signature: William A. Tulske Date: 8-07-05
William A. Tulske

Executed by Inventor 2 of 2

Signature: _____ Date: _____
Vamsi K. Vutukuru

PATENT

DOCKET NO.: CHA920050005US1

Executed by Inventor 1 of 2

Signature: _____ Date: _____

William A. Tulske

Executed by Inventor 2 of 2

Signature: V. Vamsi Krishna Date: 08/03/05

Vamsi K. Vutukuru

PATENT

RECORDED: 08/22/2005

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