

PATENT ASSIGNMENT

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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>Stuart J. Hayton</td> <td>01/26/2012</td> </tr> <tr> <td>David R. Jones</td> <td>01/26/2012</td> </tr> <tr> <td>Alwyn R. Lobo</td> <td>01/30/2012</td> </tr> <tr> <td>Robert B. Nicholson</td> <td>01/26/2012</td> </tr> <tr> <td>Graeme P. Vetterlein</td> <td>01/26/2012</td> </tr> </tbody> </table>		Name	Execution Date	Stuart J. Hayton	01/26/2012	David R. Jones	01/26/2012	Alwyn R. Lobo	01/30/2012	Robert B. Nicholson	01/26/2012	Graeme P. Vetterlein	01/26/2012
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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>13360891</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13360891								
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Application Number:	13360891												
CORRESPONDENCE DATA													
Fax Number:	(607)429-4119												
Phone:	607-429-5281												
Email:	vttimon@us.ibm.com												
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>													
Correspondent Name:	IBM Corp - Endicott Drafting Center												
Address Line 1:	1701 North Street												
Address Line 2:	Building 40-3												
Address Line 4:	Endicott, NEW YORK 13760												
ATTORNEY DOCKET NUMBER:	GB920110125US1												
NAME OF SUBMITTER:	Jason Sosa												

CH \$40.00 13360891

Total Attachments: 4

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ASSIGNMENT

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

Title of the Invention:

**USING ENTITY TAGS (ETAGS) IN A HIERARCHICAL HTTP PROXY CACHE
TO REDUCE NETWORK TRAFFIC**

and further identified by the IBM Docket Number provided above in the header of this Assignment, for which an application for a United States Patent was executed concurrently herewith or was filed having:

Application No.: 13/360891 (insert series code/serial number here if/when available)

Whereas, International Business Machines Corporation, a corporation of New York having a place of business at Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned Inventor desires to grant to IBM, the 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, 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 therefore 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.

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 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.

[Inventor Signature Page(s) Follows]

Executed by Inventor 1

Signature: Stuart J. Hayton Date: 26 JANUARY 2012
Stuart J. Hayton

Executed by Inventor 2

Signature: David R. Jones Date: 26/Jan/2012
David R. Jones

Executed by Inventor 3

Signature: _____ Date: _____
Alwyn R. Lobo

Executed by Inventor 4

Signature: Robert B. Nicholson Date: 26 Jan 2012
Robert B. Nicholson

Executed by Inventor 5

Signature: Graeme P. Vetterlein Date: 26 JAN 2012
Graeme P. Vetterlein

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[Inventor Signature Page(s) Follows]

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Signature: _____ Date: _____
 Stuart J. Hayton

Executed by Inventor 2

Signature: _____ Date: _____
 David R. Jones

Executed by Inventor 3

Signature: *Alwyn R. Lobo* Date: 30 - Jan - 2012
 Alwyn R. Lobo

Executed by Inventor 4

Signature: _____ Date: _____
 Robert B. Nicholson

Executed by Inventor 5

Signature: _____ Date: _____
 Graeme P. Vetterlein