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Rajesh Agarwalla Thirumale Niranjan
 Srikanth Ramamurthy Sumanthkumar Sukumar
 Yi Zhou

International Business Machines Corporation
 New Orchard Road
 Armonk, New York 10504

09/21/01

Additional Names Attached? Yes No

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Execution Date(s): 9-7-01;9-7-01;9-7-01;9-17-01;9-7-01

Additional Names Attached? Yes No

4. Application number(s) or patent number(s):

If this document is being filed with a new application, the execution date of the application is: 9-7-01;9-7-01;9-7-01;9-7-01;9-7-01

A. Patent Application No(s)

B. Patent No(s)

09/960448

Additional Numbers Attached? Yes No

5. Name and Address of party to whom correspondence concerning the document should be sent:	6. Total Number of applications and patents involved:	1
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Name: Jeanine S. Ray-Yarletts

Internal Address:

IBM Corporation, T81/503

Street Address:

PO Box 12195

City/State/Zip: Res. Tri. Park, NC 27709

7. Total fee (37 CFR 3.41)\$	40
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September 21, 2001

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10/02/2001 DBYRNE 00000049 090461 0960448 Documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks; Box Assignments; Washington, D.C. 20231

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AssgnSWG.wpt 09082000

J1046 U.S. PTO
 09/960448
 09/21/01

ASSIGNMENT

Whereas, we

-1 Rajesh Agarwalla

of: Pittsburgh, Pennsylvania

and (2) Thirumale Niranjana

of: Pittsburgh, Pennsylvania

and (3) Srikanth Ramamurthy

of: Pittsburgh, Pennsylvania

and (4) Sumanthkumar Sukumar

of: San Francisco, California

and (5) Yi Zhou

of: Pittsburgh, Pennsylvania

have invented certain improvements in

METHOD AND APPARATUS FOR CACHING
SUBSCRIBED AND NON-SUBSCRIBED CONTENT IN A
NETWORK DATA PROCESSING SYSTEM

and have executed, respectively, a United States patent application therefor on

-1 September 7, 2001 -2 September 7, 2001 -3 September 7, 2001

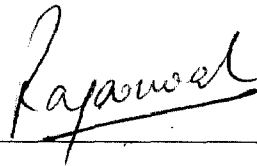
-4 -5 September 7, 2001

And whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), 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 therefor;

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

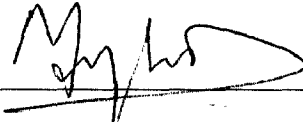
SIGNED AND SEALED

(1) at: Pittsburgh, PA
on: 7 Sept, 2001



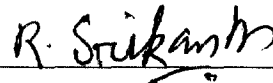
Rajesh Agarwalla

and (2) at: PITTSBURGH, PENNSYLVANIA
on: 7 SEPT 2001



Thirumale Niranjana

and (3) at: Pittsburgh, Pennsylvania
on: 7 Sep 2001

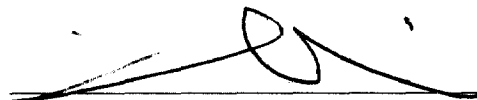


Srikanth Ramamurthy

and (4) at:
on:

Sumanthkumar Sukumar

and (5) at: Pittsburgh, PA
on: 7 Sept., 2001



Yi Zhou

ASSIGNMENT

Whereas, we

-1 Rajesh Agarwalla

of: Pittsburgh, Pennsylvania

and (2) Thirumale Niranjana

of: Pittsburgh, Pennsylvania

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of: Pittsburgh, Pennsylvania

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**METHOD AND APPARATUS FOR CACHING
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and have executed, respectively, a United States patent application therefor on

-1

-2

-3

-4 September 17, 2001 -5

And whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), 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 therefor;

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

SIGNED AND SEALED

(1) at:

on:

Rajesh Agarwalla

and (2) at:

on:

Thirumale Niranjan


and (3) at:

on:

Srikanth Ramamurthy

and (4) at: San Francisco, California

on: September 17, 2001



Sumanthkumar Sukumar

and (5) at:

on:

Yi Zhou