

01-08-2001

Atty. Docket No. SE9-99-011 (1963-7340)

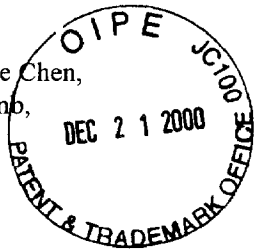


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To the Honorable Commissioner of Patents and Trademarks:
Please record the attached original documents or copy thereof.



1. Name of conveying party(ies):

Sih-Pin Subrina Chang, Shu-Chun Jeane Chen,
Keeranoor G. Kumar, James S. Lipscomb,
Jai Menon, and Liang-Jie Zhang

Additional name(s) of conveying party(ies) attached? ___ Yes X No

2. Name and address of receiving party(ies):

Name: International Business Machines Corporation
Address: New Orchard Road
Armonk, NY 10504

Additional name(s) & addresses attached? ___ Yes X No

3. Nature of conveyance:
X Assignment

Execution Date(s): November 16, and 29, 1999

4. Patent Application number 09/447,585

Execution Date(s): November 16, and 29, 1999

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Joseph C. Redmond, Jr., Esq.
Address: MORGAN & FINNEGAN, LLP
345 Park Avenue
New York, NY 10154-0053

6. Total number of applications involved: 1

7. Total fee (37 CFR 3.41): \$40.00

X Charge to Deposit Account No.: 13-4503

X Charge any deficiencies to Deposit Account 13-4503 Order No. SE9-99-011 (1963-7340).
(A duplicate copy of this sheet is enclosed)

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8. 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 original document.

Joseph C. Redmond, Jr., Registration No. 18,753

Signature: *Joseph C. Redmond, Jr.*
Joseph C. Redmond, Jr.

Date: December 21, 2000

Total no. of pages including cover sheet, attachments and document: 3

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ASSIGNMENT

Whereas, we

- | | |
|--|---|
| (1) SIH-PIN SUBRINA CHANG
County of BERGEN , | City of OLD TAPPAN ,
and State of NEW JERSEY , |
| (2) SHU-CHUN JEANE CHEN
County of WESTCHESTER , | City of CHAPPAQUA ,
and State of NEW YORK , |
| (3) KEERANOOR G. KUMAR
County of MORRIS , | City of RANDOLPH ,
and State of NEW JERSEY , |
| (4) JAMES S. LIPSCOMB
County of WESTCHESTER , | City of YORKTOWN HEIGHTS
and State of NEW YORK , |
| (5) JAI MENON
County of WESTCHESTER , | City of CROTON-ON-HUDSON ,
and State of NEW YORK , |
| and (6) LIANG-JIE ZHANG
County of WESTCHESTER , | City of WHITE PLAINS ,
and State of NEW YORK , |

We have invented certain improvements in

**A SYSTEM AND METHOD FOR ADAPTIVE DELIVERY OF RICH MEDIA
CONTENT TO A USER IN A NETWORK BASED ON REAL TIME BANDWIDTH
MEASUREMENT & PREDICTION ACCORDING TO AVAILABLE USER BANDWIDTH**

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

- (1) *11/29*, 1999; (2) *Nov 16*, 1999; (3) *Nov 16*, 1999;
(4) *Nov. 16*, 1999 (5) *Nov. 16*, 1999; and (6) *Nov. 16*, 1999;

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 Hawthorne
on 11/29, 1999


SIH-PIN SUBRINA CHANG

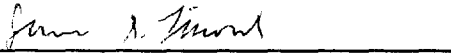
(2) at Hawthorne
on 11/16, 1999


SHU-CHUN JEANE CHEN

(3) at Hawthorne
on 11/16, 1999


KEERANOOR G. KUMAR

(4) at Hawthorne, NY
on 11/16, 1999


JAMES S. LIPSCOMB

(5) at Hawthorne, NY
on 11/16, 1999


JAI MENON

and (6) at Hawthorne, NY
on 11/16/99, 1999


LIANG-JIE ZHANG