

FORM PTO-1596 (Substitute)

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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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

1. Name of conveying party(ies):
Parijat Dube, Zhen Liu and Sambit Sahu
 Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies):
 Name: IBM Corporation
 Address: _____
 City: Armonk State: NY Zip: 10504
 Additional name(s) & address(es) attached? Yes No

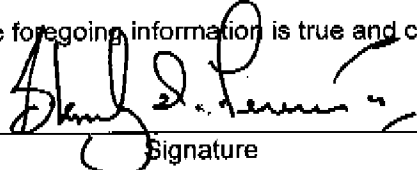
3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
 Execution Date: 11/24/04, 11/24/04, 11/24/04

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).
11/034,702
 Additional numbers attached? Yes No

6. Total number of applications and patents involved: 1
 7. Total fee (37 CFR 3.41): \$ 40.00
 Enclosed
 Authorized to be charged to deposit account
 Charge any deficiency to deposit account
 8. Deposit account number:
50-0510
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5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: Stanley D. Ference III
FERENCE & ASSOCIATES
 Address: 400 Broad Street
 City: Pittsburgh State: PA Zip: 15143

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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 and correct copy of the original document.
Stanley D. Ference III  March 14, 2005
 Name of Person Signing Signature Date

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

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Mail Stop Assignments
P.O. Box 1450, Alexandria VA 22313-1450

CH \$40.00 600610 11034702

(JOINT FORM)

(IBM Docket) YOR920040511US1
(590.149)

Assignment

Whereas, we

INVENTOR AND CITY	(1) Parijat Dube County of Nassau	of Hicksville, and State of New York
INVENTOR AND CITY	(2) Zhen Liu County of Westchester	of Tarrytown, and State of New York
INVENTOR AND CITY	(3) Sambit Sahu County of Dutchess	of Hopewell Junction, and State of New York

have invented certain improvements in

TITLE	ON-DEMAND GROUP COMMUNICATION SERVICES WITH QoS GUARANTEES
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and have executed, respectively, a United States patent application therefor on even date herewith.

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 inventions set forth in said applications 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.

(JOINT FORM)

(IBM Docket) YOR920040511US1
(590.149)

Signed and sealed

CITY AND
DATE

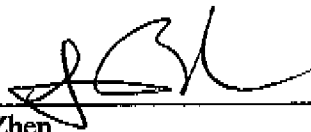
(1) at Hawthorne
on 11/24, 2004



(Parijat Dube) INVENTOR
SIGNATURE
FIRST NAME MIDDLE INITIAL LAST NAME

CITY AND
DATE

(2) at Hawthorne
on 11/24, 2004



(Zhen Liu) INVENTOR
SIGNATURE
FIRST NAME MIDDLE INITIAL LAST NAME

CITY AND
DATE

(3) at Hawthorne
on 11/24, 2004



(Sambit Sahu) INVENTOR
SIGNATURE
FIRST NAME MIDDLE INITIAL LAST NAME