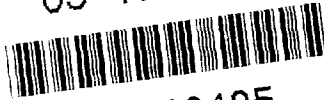


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To the Honorable Commissioner of F
thereof:

Trademarks: Please record the attached original document(s) or copy

1. Name of conveying party(ies):

Daryl Carvis Cromer 5-8-02
Philip John Jakes
Howard Jeffrey Locker

2. Name and address of receiving party:

INTERNATIONAL BUSINESS MACHINES CORP.
New Orchard Road
Armonk, New York 10504

Additional name(s) & address(es) attached?
Yes XXX No

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3. Nature of conveyance: XXX Assignment Execution Date: May 3, 2002 and May 6, 2002.

4. Application or patent number(s):

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ASSIGNMENT

Whereas, I/we,

- (1) Daryl Carvis Cromer of Apex, Wake County, North Carolina 27502;
- (2) Philip John Jakes of Durham, Durham County, North Carolina 27707, and
- (3) Howard Jeffrey Locker of Cary, Wake County, North Carolina 27513

have invented certain improvements in

BANDWIDTH MANAGEMENT IN A WIRELESS NETWORK

and executed, respectively, a United States patent application therefor on (Date Inventor Signed Declaration) (1) May 6, 2002; (2) May 3, 2002; and (3) May 6, 2002.

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.

(1) Signed at RTP, NC on May 6, 2002.



DARYL CARVIS CROMER