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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy thereof:

1. Name of conveying party(ies):

Daryl Carvis Cromer
Philip John Jakes
Howard Jeffrey Locker
James Peter Ward

3-21-02

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 No

JC986 U.S. PTO
10/103300
03/21/02

3. Nature of conveyance: XXX Assignment Execution Date: March 11, 2002 and March 14, 2002.

4. Application or patent number(s):

If this document is being filed together with a new application, the execution date of the application: March 11, 2002 and March 14, 2002.

10/103300

Entitled: **Frequency Beacon to Broadcast Allowed Frequency**

A. Patent Application No.(s): RPS9 2001 0175

B. Patent No.(s):

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

John B. Schelkopf
Personal Systems Group
INTERNATIONAL BUSINESS MACHINES CORP.
Intellectual Property Law Dept.
Dept. 9CCA/002-2
P. O. Box 12195
RTP, NC 27709-2195

6. Total number of applications and patents involved: 1

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

Authorized to be charged to deposit account

8. Deposit account number: 09-1990

(Duplicate copy of this sheet is attached)

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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 copy of the original document.

John B. Schelkopf
Name of Person Signing

Signature

3-21-02

Date

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

Mail document(s) to be recorded with required cover sheet information to: 3

Assistant Commissioner for Patents
Box Assignments
Washington, D. C. 20231

04/03/2002 DBYRNE 00000126 091990 10103300
01 FC:581 40.00 CH

ASSIGNMENT

Whereas, I,

- (1) Daryl Carvis Cromer of Apex, Wake County, North Carolina
- (2) Philip John Jakes of Durham, Wake County, North Carolina
- (3) Howard Jeffrey Locker of Cary, Wake County, North Carolina
- (4) James Peter Ward of Raleigh, Wake County, North Carolina

have invented certain improvements in

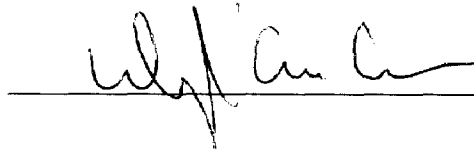
FREQUENCY BEACON TO BROADCAST ALLOWED FREQUENCY

and executed, respectively, a United States patent application therefor on (Date Inventors Signed Declaration) (1) MARCH 11, 2002; (2) March 11, 2002; (3) March 11, 2002; and (4) March 11, 2002

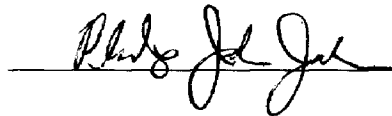
Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents 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.

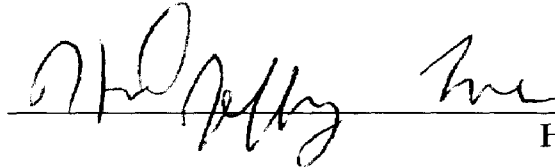
(1) Signed at RTP, NC on March 11, 2002.


Daryl Carvis Cromer

(2) Signed at RTP, NC on March 11, 2002.


Philip John Jakes

(3) Signed at RTP, NC on March 11, 2002.


Howard Jeffrey Locker

(4) Signed at RTP, NC on March 14, 2002.


James Peter Ward