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To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof.

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

Jimmie Earl DeWitt Jr.,
Frank Eliot Levine,
Christopher Michael Richardson,
Robert John Urquhart

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

3. Nature of conveyance:

X Assignment

Execution Date: 10-02-03, 10-02-03, 10-03-03, 10-02-03

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 10-02-03, 10-02-03, 10-03-03, 10-02-03

A. Patent Application No. (s)

B. Patent No. (s)

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

Diana L. Roberts
IBM Corporation
Intellectual Property Law
Internal Zip 4054
11400 Burnet Road
Austin, TX 78758
(512) 823-9667

6. Total number of applications and patents involved: 1

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

X Authorized to be charged to deposit account

8. Deposit account number:

09-0447

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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.

Diana L Roberts
Name of Person Signing

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Signature

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Date

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10/09/03

A S S I G N M E N T

Whereas, we,

(1) Jimmie Earl DeWitt, Jr. of Georgetown,
County of Williamson and State of Texas,

(2) Frank Eliot Levine of Austin,
County of Williamson and State of Texas,

(3) Christopher Michael Richardson of Austin,
County of Travis and State of Texas,

and

(4) Robert John Urquhart of Austin,
County of Travis and State of Texas,

have invented certain improvements in

METHOD AND SYSTEM FOR AUTONOMIC MONITORING OF
SEMAPHORE OPERATIONS IN AN APPLICATION

and executed, respectively, a United States patent application therefore on
(Dates Inventors Signed Declaration) (1) 10/02, 2003, and
(2) 10/2, 2003, and (3) 10/03, 2003, and
(4) OCT 2, 2003.

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 therefore;

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 Austin on 10/02, 2003 Jimmie Earl DeWitt, Jr.
Jimmie Earl DeWitt, Jr.

(2) Signed at Austin on 10/2, 2003 Frank Eliot Levine
Frank Eliot Levine

(3) Signed at Austin on 10/03, 2003 Christopher Michael Richardson
Christopher Michael Richardson

(4) Signed at AUSTIN on OCT 2, 2003 Robert John Urquhart
Robert John Urquhart