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PATENTS ONLY

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

5-12-03

1. Name of conveying party(ies):

- |                           |                         |
|---------------------------|-------------------------|
| a) Frank W. Brice, Jr.    | g) Tan Lu               |
| b) Scott M. Carlson       | h) Kenneth J. Oakes     |
| c) Janet R. Easton        | i) Charles E. Shapley   |
| d) Charles W. Gainey, Jr. | j) Leslie W. Wyman      |
| e) Marten J. Halma        | k) Harry M. Yudenfriend |
| f) Jeffrey P. Kubala      | l)                      |

More names attached? Y X N

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

Name: INTERNATIONAL BUSINESS  
MACHINES CORPORATION  
Address: New Orchard Road  
Armonk, NY 10504

More names attached? Y X N3. Nature of Conveyance: X Assignment

4. Application number: \_\_\_\_\_ Filed: \_\_\_\_\_  
Filed with new application: X Y N

Execution date(s):

- |                     |                     |
|---------------------|---------------------|
| a) <u>5-8-2003</u>  | g) <u>5-9-2003</u>  |
| b) <u>5-10-2003</u> | h) <u>5-8-2003</u>  |
| c) <u>5-9-2003</u>  | i) <u>5-8-2003</u>  |
| d) <u>5-9-2003</u>  | j) <u>5-9-2003</u>  |
| e) <u>5-12-2003</u> | k) <u>5-12-2003</u> |
| f) <u>5-8-2003</u>  | l)                  |

Additional numbers attached? Y X N

10436240

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

Name: Floyd A. Gonzalez, Esq.  
IBM Corporation  
Intellectual Property Law  
2455 South Road, P386  
Poughkeepsie, NY 12601-5400

6. Total # of applications and patents involved: 17. Total fee (37 CFR 3.41): \$40.008. Charge to Deposit Account:  
09-0463 (IBM)

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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.

Susan L NelsonSusan L Nelson  
Signature5-12-2003  
DateTotal number of pages including cover sheet, attachments, and document: 5Express Mail Label No. (if applicable): EU88519644915 Pocket No.: POU920020143US1

PATENT

REEL: 014069 FRAME: 0182

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## ASSIGNMENT

Whereas, we

- |      |  |  |
|------|--|--|
| (1)  | Frank W. Brice, Jr.<br>County of Ulster      | of Hurley<br>State of New York           |
| (2)  | Scott M. Carlson<br>County of Pima           | of Tucson<br>State of Arizona            |
| (3)  | Janet R. Easton<br>County of Ulster          | of Woodstock<br>State of New York        |
| (4)  | Charles W. Gainey, Jr.<br>County of Dutchess | of Poughkeepsie<br>State of New York     |
| (5)  | Marten J. Halma<br>County of Dutchess        | of Poughquag<br>State of New York        |
| (6)  | Jeffrey P. Kubala<br>County of Dutchess      | of Poughquag<br>State of New York        |
| (7)  | Tan Lu<br>County of Dutchess                 | of Poughkeepsie<br>State of New York     |
| (8)  | Kenneth J. Oakes<br>County of Dutchess       | of Wappingers Falls<br>State of New York |
| (9)  | Charles E. Shapley<br>County of Dutchess     | of Salt Point<br>State of New York       |
| (10) | Leslie W. Wyman<br>County of Dutchess        | of Poughkeepsie<br>State of New York     |
|      | and  |  |
| (11) | Harry M. Yudenfriend<br>County of Dutchess   | of Poughkeepsie<br>State of New York     |

have invented certain improvements in

### MANAGING ACCESS, BY OPERATING SYSTEM IMAGES OF A COMPUTING ENVIRONMENT, OF INPUT/OUTPUT RESOURCES OF THE COMPUTING ENVIRONMENT

and executed a United States Patent Application therefor on

- (1) 5-8-2003, (2) \_\_\_\_\_, (3) 5-9-2003, (4) 5/9/2003,  
(5) 5-12-2003, (6) 5-8-2003, (7) 5-9-2003, (8) 5-8-2003,  
(9) 5-8-2003, (10) 5-9-2003, and (11) 5-12-2003.

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at New Orchard Road, 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 the 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 Patents 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 Patents 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

(1) at POUGHKEEPSIE, NY  
on 5-8-2003

Frank W. Brice, Jr.  
Frank W. Brice, Jr.

(2) at \_\_\_\_\_  
on \_\_\_\_\_

\_\_\_\_\_  
Scott M. Carlson

(3) at Poughkeepsie, NY  
on 5/9/2003

Janet R. Easton  
Janet R. Easton

(4) at POUGHKEEPSIE, NY  
on 5/9/2003

Charles W. Gainey, Jr.  
Charles W. Gainey, Jr.

(5) at Poughkeepsie, NY  
on 5/12/2003

Marten J. Halma  
Marten J. Halma

(6) at Poughkeepsie NY  
on 5-8-2003

Jeffrey P. Kubala  
Jeffrey P. Kubala

(7) at Poughkeepsie NY  
on 5-9-2003

Tan Lu  
Tan Lu

(8) at Poughkeepsie NY  
on 5-8-2003

Kenneth J. Oakes  
Kenneth J. Oakes

(9) at Poughkeepsie NY  
on 5-8-2003

Charles E. Shapley  
Charles E. Shapley

(10) at Poughkeepsie NY  
on 5-8-23

Leslie W. Wyman  
Leslie W. Wyman

(11) at POUGHKEEPSIE NY  
on 5/12/2003

Harry M. Yudenfriend  
Harry M. Yudenfriend

# ASSIGNMENT

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| (9)  | Charles E. Shapley<br>County of Dutchess     | of Salt Point<br>State of New York       |
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 (9) \_\_\_\_\_, (10) 5-9-2003, and (11) \_\_\_\_\_.

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IBM Docket No.: POI920020143US1

Page 2 of 2

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## Signed

(1) at Poughkeepsie, NY  
on 5-8-2003

Frank W. Brice, Jr.  
Frank W. Brice, Jr.

(2) at Tucson, AZ  
on 5/12/2003

Scott M. Carlson  
Scott M. Carlson

(3) at Poughkeepsie, NY  
on 5/9/2003

Janet R. Easton  
Janet R. Easton

(4) at Poughkeepsie, NY  
on 5/7/2003

Charles W. Gainey, Jr.  
Charles W. Gainey, Jr.

(5) at \_\_\_\_\_  
on \_\_\_\_\_

Marten J. Halma

(6) at Poughkeepsie, NY  
on 5-8-2003

Jeffrey P. Kubala  
Jeffrey P. Kubala

(7) at Poughkeepsie, NY  
on 5-9-2003

Tan J. Li  
Tan J. Li

(8) at Poughkeepsie, NY  
on 5-8-2003

Kenneth J. Oakes  
Kenneth J. Oakes

(9) at \_\_\_\_\_  
on \_\_\_\_\_

Charles E. Shapley  
Charles E. Shapley

(10) at Poughkeepsie, NY  
on 5-8-03

Leslie W. Wyman  
Leslie W. Wyman

(11) at \_\_\_\_\_  
on \_\_\_\_\_

Harry M. Yudenfreund