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In place of Form PTO-159:



st No. AUS9-2000-0640-US1

1-10-01 *RS*

101791086

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

1. Name of conveying party(ies):

Bruce Leroy Beukema, David Craddock, Ronald Edward Fuhs, Thomas Anthony Gregg, Gregory Francis Pfister, Renato John Recio, and Steven L. Rogers

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

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

3. Nature of conveyance:

Assignment

Execution Date: 1/4/01, 1/5/01

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 1/4/01, 1/5/01

A. Patent Application(s)

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

Mark McBurney
IBM Corporation
Intellectual Property Law
Internal Zip 4054
11400 Burnet Road
Austin, TX 78758
(512) 823-1003

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:

09-0447

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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.

Mark E. McBurney
Name of Person Signing

Mark E. McBurney
Signature

1/10/01
Date

Total number of pages including cover sheet: 2

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01 FC:581 40.00 CH

IBM DOCKET NO. AUS9-2000-0640-US1

(1) Signed at Rochester on 1/9/01, ~~2000~~.

Bruce Leroy Beukema
Bruce Leroy Beukema

and (2) Signed at _____ on _____, 2000.

David Craddock

and (3) Signed at Rochester on 1/4/01, ~~2000~~.

Ronald Edward Fuhs
Ronald Edward Fuhs

and (4) Signed at _____ on _____, 2000.

Thomas Anthony Gregg

and (5) Signed at Austin on _____, 2000.

Gregory Francis Pfister

and (6) Signed at Austin on _____, 2000.

Renato John Recio

and (7) Signed at Rochester on 1/4/01, ~~2000~~.

Steven L. Rogers
Steven L. Rogers

IBM DOCKET NO. AUS9-2000-0640-US1

A S S I G N M E N T

Whereas, we,

(1) Bruce Leroy Beukema of Hayfield,
County of Dodge and State of Minnesota,

and
(2) David Craddock of New Paltz,
County of Ulster and State of New York,

and
(3) Ronald Edward Fuhs of Rochester,
County of Olmsted and State of Minnesota,

and
(4) Thomas Anthony Gregg of Highland,
County of Ulster and State of New York,

and
(5) Gregory Francis Pfister of Austin,
County of Travis and State of Texas,

and
(6) Renato John Recio of Austin,
County of Travis and State of Texas,

and
(7) Steven L. Rogers of Rochester,
County of Olmsted and State of Minnesota,

have invented certain improvements in

Method and Apparatus for Managing Access to Memory

and executed, respectively, a United States patent application therefore on
(Dates Inventors Signed Declaration) (1) _____, 2000, and (2)
David Craddock 1/5, 2000, and (3) _____, 2000, and (4)
Thomas Anthony Gregg 1/5, 2000, (5) _____, 2000, and (6)
_____, 2000, and (7) _____, 2000.

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.

IBM DOCKET NO. AUS9-2000-0640-US1

(1) Signed at Rochester on _____, 2000.

Bruce Leroy Beukema

and (2) Signed at Poughkeepsie on January 5, 2000.

David Craddock

David Craddock

and (3) Signed at Rochester on _____, 2000.

Ronald Edward Fuhs

and (4) Signed at Poughkeepsie on January 5, 2000.

Thomas Anthony Gregg

Thomas Anthony Gregg

and (5) Signed at Austin on _____, 2000.

Gregory Francis Pfister

and (6) Signed at Austin on _____, 2000.

Renato John Recio

and (7) Signed at Rochester on _____, 2000.

Steven L. Rogers

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County of Olmsted and State of Minnesota,

and
(4) Thomas Anthony Gregg of Highland,
County of Ulster and State of New York,

and
(5) Gregory Francis Pfister of Austin,
County of Travis and State of Texas,

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(6) Renate John Recio of Austin,
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(7) Steven L. Rogers of Rochester,
County of Olmsted and State of Minnesota,

have invented certain improvements in

Method and Apparatus for Managing Access to Memory

and executed, respectively, a United States patent application therefore on
(Dates Inventors Signed Declaration) (1) _____, 2000, and (2)
_____, 2000, and (3) _____, 2000, and (4)
_____, 2000, (5) 1/5/2001, ~~2000~~, and (6)
1/4/2001, ~~2000~~, and (7) _____, 2000.

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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.

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Ronald Edward Fuhs

and (4) Signed at _____ on _____, 2000.

Thomas Anthony Gregg

and (5) Signed at Austin on 1/5/2001, 2000.



Gregory Francis Pfister

and (6) Signed at Austin on 1/4/2001, 2000.



Renato John Recio

and (7) Signed at Rochester on _____, 2000.

Steven L. Rogers