In place of Form PTO-1595

Docket No. AUS920050368US1

RECORDATION FORM COVER SHEET
PATENTS

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

1. Name of conveying party(ies):	Execution Date:
(1) WILLIAM T. BOYD (2) DOUGLAS M. FREIMUTH (3) WILLIAM G. HOLLAND (4) STEVEN W. HUNTER (5) RENATO J. RECIO (6) STEVEN M. THURBER (7) MADELINE VEGA	6/28/05 6/28/05 6/30/05 6/28/05 7/7/05 6/28/05 6/29/05

Additional name(s) of conveying party(ies) attached?   Yes _X_ No

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

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

3. Nature of conveyance:

X Assignment   ___ Merger

___ Security Agreement   ___ Change of Name

___ Other _____

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:

A. Patent Application No.(s) 11/176922   B. Patent No.(s)_____

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

Mark E. McBurney
IBM Corporation
Intellectual Property Law
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
___ Enclosed
X Authorized to be charged to deposit account

8. Deposit account number:

09-0447

DO NOT USE THIS SPACE

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	Mark E. McB	7-7-05
Name of Person Signing	Signature	Date

Total number of pages including cover sheet: 16

IBM DOCKET NO. AUS920050368US1

A S S I G N M E N T

Whereas, we,

(1) William T. Boyd   of Poughkeepsie
County of Dutchess   and State of New York

and

(2) Douglas M. Freimuth   of New York
County of New York   and State of New York

and

(3) William G. Holland   of Cary
County of Wake   and State of North Carolina

and

(4) Steven W. Hunter   of Raleigh
County of Wake   and State of North Carolina

and

(5) Renato J. Recio   of Austin
County of Travis   and State of Texas

and

(6) Steven M. Thurber   of Austin
County of Williamson   and State of Texas

and

(7) Madeline Vega   of Austin
County of Travis   and State of Texas

have invented certain improvements in

Mechanism to Virtualize All Address Spaces in Shared I/O Fabrics

and executed, respectively, a United States patent application therefore on
(Dates Inventors Signed Declaration) (1)____June   28_____, 2005,
(2)_____, 2005, (3)_____, 2005,
(4)_____, 2005, (5)_____, 2005,
(6)_____, 2005, and (7)_____, 2005.

        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;

IBM DOCKET NO. AUS920050368US1

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 _Poughkeepsie/New York_ _June 28_, 2005.

_____
                                    William T. Boyd

and (2) Signed at _____ on _____, 2005.

                                    _____
                                    Douglas M. Freimuth

and (3) Signed at _____ on _____, 2005.

                                    _____
                                    William G. Holland

and (4) Signed at _____ on _____, 2005.

                                    _____
                                    Steven W. Hunter

Page 2 of 3

PATENT
REEL: 016586 FRAME: 0626

IBM DOCKET NO. AUS920050368US1

and (5) Signed at _____ on _____, 2005.

_____
Renato J. Recio

and (6) Signed at _____ on _____, 2005.

_____
Steven M. Thurber

and (7) Signed at _____ on _____, 2005.

_____
Madeline Vega

IBM DOCKET NO. AUS920050368US1

A S S I G N M E N T

Whereas, we,

(1) William T. Boyd   of Poughkeepsie
County of Dutchess   and State of New York

and

(2) Douglas M. Freimuth   of New York
County of New York   and State of New York

and

(3) William G. Holland   of Cary
County of Wake   and State of North Carolina

and

(4) Steven W. Hunter   of Raleigh
County of Wake   and State of North Carolina

and

(5) Renato J. Recio   of Austin
County of Travis   and State of Texas

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(6) Steven M. Thurber   of Austin
County of Williamson   and State of Texas

and

(7) Madeline Vega   of Austin
County of Travis   and State of Texas

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Mechanism to Virtualize All Address Spaces in Shared I/O Fabrics

and executed, respectively, a United States patent application therefore on
(Dates Inventors Signed Declaration) (1)_____, 2005,
(2) June 24th_____, 2005, (3)_____, 2005,
(4)_____, 2005, (5)_____, 2005,
(6)_____, 2005, and (7)_____, 2005.

   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;

PATENT
REEL: 016586 FRAME: 0628

IBM DOCKET NO. AUS920050368US1

    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 _____ on _____, 2005.

_____
William T. Boyd

and (2) Signed at ⎯Hawthorne, NY⎯ on ⎯June 28th⎯, 2005.

_____
Douglas M. Freimuth

and (3) Signed at _____ on _____, 2005.

_____
William G. Holland

and (4) Signed at _____ on _____, 2005.

_____
Steven W. Hunter

IBM DOCKET NO. AUS920050368US1

and (5) Signed at _____ on _____, 2005.

_____
Renato J. Recio

and (6) Signed at _____ on _____, 2005.

_____
Steven M. Thurber

and (7) Signed at _____ on _____, 2005.

_____
Madeline Vega

PATENT
REEL: 016586 FRAME: 0630

IBM DOCKET NO. AUS920050368US1

A S S I G N M E N T

Whereas, we,

(1) William T. Boyd   of Poughkeepsie
County of Dutchess   and State of New York

and

(2) Douglas M. Freimuth   of New York
County of New York   and State of New York

and

(3) William G. Holland   of Cary
County of Wake   and State of North Carolina

and

(4) Steven W. Hunter   of Raleigh
County of Wake   and State of North Carolina

and

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County of Travis   and State of Texas

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(Dates Inventors Signed Declaration) (1)_____, 2005,
(2)_____, 2005, (3) _July 3C, 2005_____, 2005,
(4)_____, 2005, (5) _____, 2005,
(6)_____, 2005, and (7) _____, 2005.

    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;

**PATENT
REEL: 016586 FRAME: 0631**

IBM DOCKET NO. AUS920050368US1

    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.
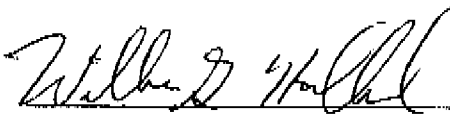
(1) Signed at _____ on _____, 2005.

_____
William T. Boyd

and (2) Signed at _____ on _____, 2005.

_____
Douglas M. Freimuth

and (3) Signed at *RTP, NC* on *June 30*, 2005.

_____
William G. Holland

and (4) Signed at _____ on _____, 2005.

_____
Steven W. Hunter

**PATENT
REEL: 016586 FRAME: 0632**

IBM DOCKET NO. AUS920050368US1

and (5) Signed at _____ on _____, 2005.

_____
Renato J. Recio

and (6) Signed at _____ on _____, 2005.

_____
Steven M. Thurber

and (7) Signed at _____ on _____, 2005.

_____
Madeline Vega

**PATENT
REEL: 016586 FRAME: 0633**

IBM DOCKET NO. AUS920050368US1

A S S I G N M E N T

Whereas, we,

(1) William T. Boyd County of Dutchess	of Poughkeepsie and State of New York

and

(2) Douglas M. Freimuth County of New York	of New York and State of New York

and

(3) William G. Holland County of Wake	of Cary and State of North Carolina

and

(4) Steven W. Hunter County of Wake	of Raleigh and State of North Carolina

and

(5) Renato J. Recio County of Travis	of Austin and State of Texas

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(6) Steven M. Thurber County of Williamson	of Austin and State of Texas

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(Dates Inventors Signed Declaration) (1)_____, 2005,
(2)_____, 2005, (3)_____, 2005,
(4)___JUNE 28_____, 2005, (5)_____, 2005,
(6)_____, 2005, and (7)_____, 2005.

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;

PATENT
REEL: 016586 FRAME: 0634

IBM DOCKET NO. AUS920050368US1

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.
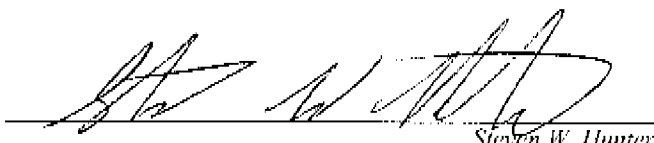
(1) Signed at _____ on _____ _____, 2005.

_____
William T. Boyd

and (2) Signed at _____ on _____ _____, 2005.

_____
Douglas M. Freimuth

and (3) Signed at _____ on _____ _____, 2005.

_____
William G. Holland

and (4) Signed at _RTP, NC_____ on _JUNE 28____, 2005.

_____
Steven W. Hunter

PATENT
REEL: 016586 FRAME: 0635

IBM DOCKET NO. AUS920050368US1

and (5) Signed at _____ on _____ , 2005.

_____
Renato J. Recio

and (6) Signed at _____ on _____ , 2005.

_____
Steven M. Thurber

and (7) Signed at _____ on _____ , 2005.

_____
Madeline Vega

IBM DOCKET NO. AUS920050368US1

A S S I G N M E N T

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County of New York   and State of New York

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(Dates Inventors Signed Declaration) (1)_____, 2005,
(2)_____, 2005, (3)_____, 2005,
(4)_____, 2005, (5) _____July 7th_____, 2005,
(6)_____JUNE 28_____, 2005, and (7) _____June 29th_____, 2005.

    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;

PATENT
REEL: 016586 FRAME: 0637

IBM DOCKET NO. AUS920050368US1

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 _____ on _____, 2005.

_____
William T. Boyd

and (2) Signed at _____ on _____, 2005.
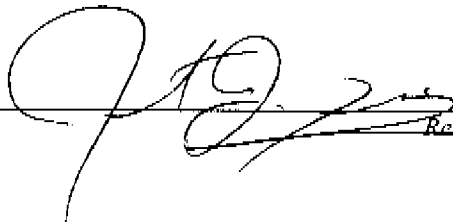
_____
Douglas M. Freimuth

and (3) Signed at _____ on _____, 2005.

_____
William G. Holland

and (4) Signed at _____ on _____, 2005.

_____
Steven W. Hunter

**PATENT
REEL: 016586 FRAME: 0638**

IBM DOCKET NO. AUS920050368US1

and (5) Signed at _____Austin_____ on ____July 7th____ , 2005.
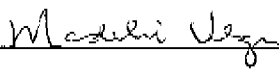
_____ Renato J. Recio

and (6) Signed at _____AUSTIN_____ on ____JUNE 29____ , 2005.

_____ Steven M. Thurber

and (7) Signed at _____Austin_____ on ____June 29____ , 2005.

_____ Madeline Vega

PATENT