In place of Form PTO-1595

Docket No. **AUS920040617US1**

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) JAMES R. GALLAGHER (2) BINH K. HUA (3) SIVARAMA K. KODUKULA (4) BRUCE HENRY RATCLIFF Additional name(s) of conveying party(ies) attached? ____ Yes _x_ No	10|4|04 10|4|04 10|4|04 10|6|04

2. Name and address of receiving party(ies):	3. Nature of conveyance:
International Business Machines Corporation New Orchard Road Armonk, New York 10504	**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) 10/960607 B. Patent No.(s) _____

5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
Mark E. McBurney IBM Corporation Intellectual Property Law 11400 Burnet Road Austin, TX 78758 (512) 823-1003	7. Total fee (37 CFR 3.41) $ 40.00 ____ Enclosed 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.

Mark E. McBurney	Mark E. McB [signature]	10-6-04
Name of Person Signing	Signature	Date

Total number of pages including cover sheet: 5

PATENT

REEL: 015310 FRAME: 0068

IBM DOCKET NO. AUS920040617US1

A S S I G N M E N T

Whereas, we,

(1) James R. Gallagher   of Austin
County of Travis   and State of Texas

and

(2) Binh K. Hua   of Austin
County of Travis   and State of Texas

and

4) Sivarama K. Kodukula   of Round Rock
County of Williamson   and State of Texas

and

(4) Bruce Henry Ratcliff   of Red Hook
County of Dutchess   and State of New York
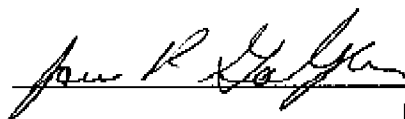
have invented certain improvements in

END-TO-END DATA INTEGRITY PROTECTION FOR PCI-EXPRESS BASED INPUT/OUTPUT ADAPTER

and executed, respectively, a United States patent application therefore on (Dates Inventors Signed Declaration) (1) _Oct 4_____, 2004, (2) __oct 4_____, 2004, (3) _oct 4_____, 2004, and (4)_____, 2004.
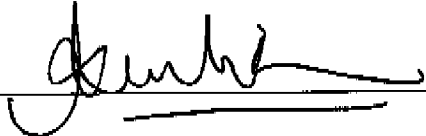
Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents 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 ___Oct 04____, 2004.

James R. Gallagher

Page 1 of 2

**PATENT
REEL: 015310 FRAME: 0069**

IBM DOCKET NO. AUS920040617US1

and (2) Signed at ___Austin___ on ___oct 4___, 2004.

_____ Binh K. Hua

and (3) Signed at ___Austin___ on ___oct 4___, 2004.

_____ Sivarama K. Kodukula

and (4) Signed at _____ on _____, 2004.

_____ Bruce Henry Ratcliff

PATENT
REEL: 015310 FRAME: 0070

ASSIGNMENT

Whereas, we,

(1) <u>James R. Gallagher</u>   of <u>Austin</u>
County of <u>Travis</u>   and State of <u>Texas</u>

and

(2) <u>Binh K. Hua</u>   of <u>Austin</u>
County of <u>Travis</u>   and State of <u>Texas</u>

and

4) <u>Sivarama K. Kodukula</u>   of <u>Round Rock</u>
County of <u>Williamson</u>   and State of <u>Texas</u>

and

(4) <u>Bruce Henry Ratcliff</u>   of <u>Red Hook</u>
County of <u>Dutchess</u>   and State of <u>New York</u>

have invented certain improvements in

END-TO-END DATA INTEGRITY PROTECTION FOR PCI-EXPRESS BASED INPUT/OUTPUT ADAPTER

and executed, respectively, a United States patent application therefore on *(Dates Inventors Signed Declaration)* (1)_
. 2004,
(2)_   , 2004, (3)   . 2004, and
(4). *October 6*   , 2004.

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 _   _ on _   , 2004.

_____
James R. Gallagher

IBM DOCKET NO. AUS920040617US1

and (2) Signed at _Ponzi_   _on_   , 2004.

_____
Binh K. Hua

and (3) Signed at _   _on_   , 2004.

_____
Sivarama K. Kodukula

and (4) Signed at _Poughkeepsie, NY_   _on_ October 6   , 2004.

_Bruce Henry Ratcliff_____
Bruce Henry Ratcliff

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