PATENT

| In place of Form PTO-1595 | Attorney Doc | :ket Number: RPS920030154US1 |
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| RECORDATION F | ORM COVER SHEET - PATENTS | |
| To the Commissioner for Patents: Please record the attache | ed original document(s) or copy ther | eof: |
| Conveying party data and execution dates of Assignment | nt: | |
| ANTHONY JOSEPH BYBELL | March 8, 2004 | |
| 2. Receiving party data: | | |
| International Business Machines Corporation | Additional names & addresses attached? | |
| New Orchard Road; Armonk, NY 10504 | Yes No X | alV- |
| Patent Application Number: 10/805,151 Address to where correspondence concerning document CUSTOMER NUMBER 25299 IBM Corporation Dept. 9CCA/002 P.O. Box 1219 Research Triangle Park, NC 27709-2195 | t should be mailed: or faxed to (919) 254-2649 |) |
| 6. Total number of applications and patents involved: | 1 | |
| 7. Total fee (37 CFR §3.41): \$40.00. | | |
| 8. X The Commissioner is hereby authorized to charge | ge the fee to deposit account numbe | er 09-19 9 0. |
| DO N | OT USE THIS SPACE | |
| 9. Statement and Signature: To the best of my knowledg attached copy is a true copy of the original document. Amirah Scarborough Name of person signing | ge and belief, the foregoing informations of the second se | ion is true and correct and any June 30, 2004 Date |

Total number of pages including cover sheet, attachments and documents: 3

Mail documents to be recorded with required cover sheet information to: Mail Stop Assignment Division; Commissioner for Patents; P.O. Box 1450; Alexandria, VA 22313-1450

PATENT REEL: 014801 FRAME: 0475

PATENT

ASSIGNMENT

Whereas, I/ we,

ANTHONY JOSEPH BYBELL

County of Orange

City of Carrboro State of North Carolina

have invented certain improvements in

Title:

SYSTEM AND METHOD FOR INCREASING THE SPEED OF SERIALLY INPUTTING DATA INTO A JTAG-COMPLIANT DEVICE

and executed a United States patent application therefor on the following date(s):

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 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, I/we, the above named, hereby acknowledge my/our prior existing obligation and hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of the United States application, and I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to IBM, its successors and assigns; and I/we hereby agree that IBM may apply for foreign Letters Patent on the invention and I/we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Signed and sealed:

CITY/STATE

SIGNATURE

RECORDED: 06/30/2004

ARREDEO NC OSMAROY

RPS920030154US1

PATENT REEL: 014801 FRAME: 0476**