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Docket No. AUS920040737US1

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PATENTS

To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): (1) Mark David Bellows (2) Ryan Abel Heckendorf
Execution Date: 11/09/2004
Additional name(s) of conveying party(ies) attached? Yes X No
2. Name and address of receiving party(ies): International Business Machines Corporation
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 (1) (2)

A. Patent Application No.(s) 10/988290

B. File Date 11/12/2004

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

Robert M Carwell
IBM Corporation
Intellectual Property Law
11400 Burnet Road
Austin, TX 78758
(512) 823-1017

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00

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Robin Zelent
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Signature

12/28/2004
Date

Total number of pages including cover sheet: 3

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## ASSIGNMENT

Whereas, we,

(1) Mark David Bellows of 4925 Manor Brook Drive N.W.  
Rochester, Minnesota 55901  
County of Olmstead and State of Minnesota

and  
(2) Ryan Abel Heckendorf of 224 First Avenue S.W., Apt. #5  
Rochester, Minnesota 55902  
County of Olmstead and State of Minnesota

have invented certain improvement in <sup>MDD</sup> ~~SEQUENCES~~ <sup>PATH</sup>  
STRUCTURE OF ~~SEQUENCES~~ THAT PERFORM INITIAL AND PERIODIC  
CALIBRATIONS IN AN XDR™ MEMORY SYSTEM

and executed a United States patent application therefore on (1) November 9, 2004; and  
(2) November 9<sup>th</sup>, 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, I, 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 I 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 I hereby agree that IBM may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

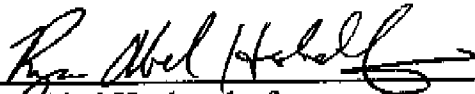
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Rochester, Minnesota

(1) Signed at 10:50 am on November 9, 2004.

  
Mark David Bellows

(2) Signed at 11:17 am in Rochester, MN on November 9<sup>th</sup>, 2004.

  
Ryan Abel Heckendorf