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Docket No. AUS920040733US1

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<p>1. Name of conveying party(ies):</p> <p>(1) Mark David Bellows (2) Kent Harold Haselhorst (3) Ryan Abel Heckendorf (4) Paul Allen Ganfield (5) Tolga Ozguner</p> <p>Additional name(s) of conveying party(ies) attached? Yes <input checked="" type="checkbox"/> No</p>	<p>Execution Date:</p> <p><u>11/17/2004</u> <u>11/17/2004</u> <u>11/17/2004</u> <u>11/17/2004</u> <u>11/17/2004</u></p>
<p>2. Name and address of receiving party(ies):</p> <p>International Business Machines Corporation New Orchard Road Armonk, New York 10504</p>	<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____</p>

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) _____ (3) _____ (4) _____ (5) _____

A. Patent Application No.(s) 11/002556 B. File Date 12/02/2004

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

6. Total number of applications and patents involved: 1

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

7. Total fee (37 CFR 3.41) \$ 40.00
 Enclosed
 Authorized to be charged to deposit account

8. Deposit account number:

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Robin Zelent
 Name of Person Signing


 Signature

12/28/2004
 Date

Total number of pages including cover sheet: 3

PATENT

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IBM DOCKET NO. AUS920040733US1

ASSIGNMENT

Whereas, we,

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

and

(2) Kent Harold Haselhorst of 406 Ninth Avenue N.W., Byron, Minnesota 55920
County of Olmsted and State of Minnesota

and

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

and

(4) Paul Allen Ganfield of 2626 Oakview Lane N.E., Rochester, Minnesota 55906
County of Olmsted and State of Minnesota

and

(5) Tolga Ozguner of 3868 Stoney Creek Lane N.W., Rochester, Minnesota 55901
County of Olmsted and State of Minnesota

have invented certain improvement in

MEMORY CONTROLLER TO UTILIZE DRAM WRITE BUFFERS

and executed a United States patent application therefore on (1) Nov 17, 2004;
(2) 11-17, 2004; (3) November 17th, 2004; (4) Nov 17, 2004; and
(5) November 17, 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.

IBM DOCKET NO. AUS920040733US1

(1) Signed at Rochester MN on November 17, 2004.

Mark David Bellows
Mark David Bellows

(2) Signed at Rochester MN on 11-17, 2004.

Kent Harold Haselhorst
Kent Harold Haselhorst

(3) Signed at Rochester, MN on November 17th, 2004.

Ryan Abel Heckendorf
Ryan Abel Heckendorf

(4) Signed at Rochester, MN on Nov. 17, 2004.

Paul Allen Ganfield
Paul Allen Ganfield

(5) Signed at Rochester, MN on November 17, 2004.

Tolga Ozguner
Tolga Ozguner