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To The Honorable Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies) thereof.

<p>1. Name of conveying party(ies): <u>Beukema, Bruce Leroy</u> <u>Bar-Joshua, Michael</u> <u>Mesh, Alexander</u> <u>Yifrach, Shaul</u></p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>3. Name and address of receiving party(ies):</p> <p>Name: <u>International Business Machines Corporation</u> Internal Address: _____ Street Address: <u>New Orchard Road</u></p> <p>City: <u>Armonk</u></p> <p>State: <u>New York</u> Zip Code: <u>10504</u></p> <p>Country: <u>U.S.A.</u></p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>2. 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> <p>Execution Date(s): <u>Nov. 01, 2005, Nov. 07, 2005.</u> <u>Nov. 07, 2005 and Nov. 07, 2005.</u></p>	

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date(s) of the application is/are: _____
A. Patent Application No(s). 11/282,093 B. Patent No(s). _____
Additional numbers attached? Yes No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>IBM Corporation</u> Internal Address: <u>Intellectual Property Law Dept. 917</u></p> <p>Street Address: <u>3605 Hwy. 52 North</u></p> <p>City: <u>Rochester</u> State: <u>MN</u> Zip: <u>55901</u></p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 33.41): <u>\$40.00</u> <input checked="" type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account if deficiencies occur</p> <p>8. Deposit Account number: <u>09-0465</u> (Attach duplicate copy of this page if paying by deposit account)</p>
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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.

Robert R. Williams (Reg. No. 48,395)
Name of Person Signing

Robert R. Williams
Signature

12/1/2005
Date

Total number of pages including cover sheet, attachments, and document: 3
IBM/352/124

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents and Trademarks, Box Assignments
Washington, D.C. 20231

PATENT

CH \$40.00 090465 11282093

ASSIGNMENT

WHEREAS, we, **Bruce Leroy Beukema**, residing at 71050 210th Avenue, Hayfield, Minnesota 55940; **Michael Bar-Joshua**, residing at Yehosua Gluberman 11, Haifa, Israel; **Alexander Mesh**, residing at Raul Valenberg Str. 6/8, Haifa 34990, Israel and **Shaul Yifrach**, residing at Alter 126, Haifa 32984, Israel; made certain new and useful inventions and improvements for which we executed an application for Letters Patent of the United States on 11/1/05, 11/7/05, 11/7/05 and 11/7/05, respectively, which is entitled **FAST PATH MEMORY READ REQUEST PROCESSING IN A MULTI-LEVEL MEMORY ARCHITECTURE**.

AND WHEREAS, **INTERNATIONAL BUSINESS MACHINES CORPORATION**, a corporation organized and existing under and by virtue of the laws of the State of New York, and having an office and place of business at New Orchard Road, Armonk, New York 10504 (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar and other good and valuable considerations, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

11-1-05 Date Bruce L. Beukema Bruce Leroy Beukema

X 7/14/05 Date X [Signature] Michael Bar-Joshua

X 7/11/05 Date X [Signature] Alexander Mesh

X 7/11/05 Date X [Signature] Shaul Yifrach