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SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT			
CONVEYING PARTY DATA					
	Ν	ame	Execution Date		
Vadim Khmelnitsky			08/15/2008		
Nir Jacob Wakrat			08/15/2008		
RECEIVING PARTY DATA					
Name: Apple Inc.	Apple Inc.				
Street Address: 1 Infinite Loc	1 Infinite Loop				
City: Cupertino					
State/Country: CALIFORNI	CALIFORNIA				
Postal Code: 95014-2094	95014-2094				
PROPERTY NUMBERS Total: 1					
Property Type		Number			
Application Number: 12193		613			
CORRESPONDENCE DATA Fax Number: (877)769-7945 Correspondence will be sent via US Mail when the fax attempt is unsuccessful					
Fax Number: (877)769-7945					
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.					
Phone: 650-839-5070					
Email: kmj@fr.com Correspondent Name: Kirk A. Gottlieb					
Correspondent Name: Kirk A. Gottlieb Address Line 1: FISH & RICHARDSON P.C.					
Address Line 2: P.O.BOX 1022					
Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022					
ATTORNEY DOCKET NUMBER:		22748-0013001			
NAME OF SUBMITTER:		Kathy Jordan			
Total Attachments: 2 source=assignment#page1.tif source=assignment#page2.tif					

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS, Vadim Khmelnitsky, Nir Jacob Wakrat, hereby sell, assign, and transfer to Apple Inc. (CALIFORNIA corporation), having offices located at 1 Infinite Loop, Cupertino, California 95014-2094, and its successors, assigns and legal representatives (collectively, "ASSIGNEE") all of the right, title and interest of ASSIGNORS throughout the world in and to any and all inventions and improvements which are the subject of a patent document entitled.

Memory Mapping Restore and Garbage Collection Operations

and wh	nich is four	nd in	
(a)		U.S. patent application executed on , entitled as above, listing the above named persons as Inventors.	
(b)		U.S. patent application filed on August 18, 2008 under Application No. 12/193,613 with Express Mail No. (Application Number not yet known).	
(c)	П	U.S. Patent No : issued	

An attorney of record, or the attorney filing the application, is authorized and requested by the execution of this assignment to insert into this assignment the execution date of the application and/or the filing date and serial number of the application when officially known.

This assignment includes the foregoing patent application or patent; all legal equivalents thereof in any foreign country and all patents issuing therefrom; all United States and foreign patents, utility models, and design registrations granted for any of said inventions and improvements; and the right to claim priority based on the filing date of the foregoing patent application or patent under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes. ASSIGNORS authorize ASSIGNEE to apply in all countries in the name of ASSIGNORS or in the name of ASSIGNEE for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with this assignment.

ASSIGNORS further covenant for themselves and their respective heirs, legal representatives and assigns to provide to ASSIGNEE promptly upon the request of ASSIGNEE all pertinent facts and documents relating to said invention and said patents and legal equivalents as may be known and accessible to ASSIGNORS and to testify as to the same in any interference, litigation, or proceeding relating thereto and promptly to execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce said application, said inventions and improvements and said patents and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

ASSIGNORS request the Commissioner of Patents and Trademarks to issue said patents of the United States and any reissue or extension thereof to the ASSIGNEE.

PATENT REEL: 021550 FRAME: 0363 Executed this

Signature of Inventor

15 day of acceptest 2008 Vadim Khmelnitsky

Executed this

Signature of Inventor

L day of ALC. 2008 Nir Jacob Wakeer

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