PATENT ASSIGNMENT

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
XIV LTD.	12/31/2007

RECEIVING PARTY DATA

Name:	INTERNATIONAL BUSINESS MACHINES CORPORATION
Street Address:	1 New Orchard Road
City:	Armonk
State/Country:	NEW YORK
Postal Code:	10504-1722

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11302096

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ATTORNEY DOCKET NUMBER:	TUC920085009US2/0133.U02
NAME OF SUBMITTER:	John A. Griffiths

Total Attachments: 5
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11302096

CH $40.00

PATENT

PATENT ASSIGNMENT

WHEREAS, XIV, Ltd, an Israel corporation (referred to as "Company"), has ownership of the patent applications listed on Schedule A hereto, all patents which may issue therefrom, and all divisionals, reissues, substitutions, continuations, re-examinations and extensions thereof which may be pending in or granted by any patent office or forum throughout the world (referred to as the "Patents") and whereas Company owns all inventions disclosed and claimed in the Patents ("Inventions");

WHEREAS, International Business Machines Corporation, a New York corporation (referred to as "IBM"), desires to acquire the entire right, title and interest in and to the Inventions and Patents; and

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, Company hereby transfers and assigns to IBM free and clear of all liens or other encumbrances, and IBM hereby accepts the transfer and assignment of, the entire right, title, and interest of Company in and to the Patents and Inventions, and all rights of priority resulting from the filing of the Patents; and Company hereby authorizes and requests the Commissioner of Patents and any other relevant authority to issue all patents related to the Patents to IBM as assignee of Company's entire right, title and interest therein.

Company also hereby transfers and assigns to IBM, and IBM hereby accepts the transfer and assignment of, any foreign rights to the Inventions and Patents, in all countries of the world, including the right to file applications, prosecute, and obtain patents under any treaty including the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, and of the European Patent Convention. Company agrees that this executed document is recordable evidence of such transfer and assignment and further agrees to perform at IBM's expense, upon reasonable notice, such lawful acts and to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such foreign patent rights.

Upon the written request of IBM, Company hereby further agrees that Company will sign all lawful papers, execute all divisional, continuation, reissue, re-examination, and substitute applications, make all lawful oaths, and provide reasonable assistance to aid IBM, its successors, assigns and nominees to facilitate the prosecution and maintenance of the Patents in all countries of the world.

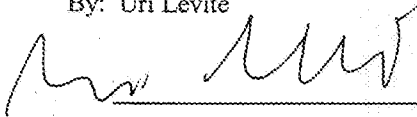This transfer and assignment is effective as of December 31, 2007.

IN WITNESS WHEREOF, the parties hereto have executed this Patent Assignment by its respective duly authorized officer in their respective corporate names.
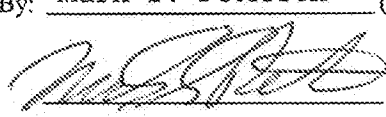
XIV Ltd.	**International Business Machines Corporation**
By: Uri Levite	By: Mark S. Petersen (Print)
(Sign)	(Sign)
Title: Director	Title: Director of Finance, IP
Date:	Date: 15-DEC-2008

Schedule A

ISSUED PATENTS						
Patent Number	Issue Date	Application No.	Filing Date	Title	Country	Owner
7,219,203	5/15/2007	10/829031	4/21/2004	Reading Data From a Multiplicity of Disks in a Data Storage System	US	XIV
7,293,156	11/6/2007	10/620249	7/15/2003	Distributed Independent Cache Memory	US	XIV
7,299,334	11/20/2007	10/886372	7/4/2004	Storage System Configurations	US	XIV
7,302,604	11/27/2007	11/057934	2/15/2008	Remote Management Commands in a Mass Storage System	US	XIV
7,293,116	11/6/2007	11/090444	3/24/2005	Graphic User Interface for a Storage System	US	XIV
7,313,654	12/25/2007	10/974152	10/27/2004	Method for Differential Discarding of Cached Date in Distributed Storage Systems	US	XIV
7,437,598	10/14/2008	11/022448	12/23/2004	System, Method and Circuit for Mirroring Data	US	XIV
7,430,641	9/30/2008	10/974236	10/27/2004	System Method and Circuit for Retrieving Data into a Cache Data From One or More Mass Data Storage Devices	US	XIV
7,395,391	07/01/2008	11/756,729	6/1/2007	Parallel Asynchronous Order-Processing Transaction Processing	US	XIV

PATENT APPLICATIONS

Application No.	Filing Date	Title (Publication No.)	Country	Owner
10/620080	7/15/2003	Data Allocation in a Distributed Storage System – (2005/0015566)	US	XIV
10/701800	11/5/2003	Parallel Asynchronous Order-Processing Transaction Processing – (2005/0102554)	US	XIV
10/706676	11/12/2003	Distributed Task Queues in a Multiple-Port Storage System – (2005/0102469)	US	XIV
10/756952	1/13/2004	(abandoned) – 1/10/2008	US	XIV
10/808232	3/24/2004	Data Storage System (abandoned - continuation filed under 11/840378)	US	XIV
10/808561	3/24/2004	Self Healing Memory – (2005/0015554)	US	XIV
10/886359	7/7/2004	Redundant Manager For a Storage System – (2005/0015658)	US	XIV
10/914746	8/9/2004	System Method and Circuit for Retrieving Data into a Cache Memory from a Mass Data Storage Device – (2006/0031633)	US	XIV
11/070752	3/2/2005	System, Method and Circuit for Responding to a Client Date Service Request – (2006/0200456)	US	XIV
11/080328	3/15/2005	Data Protection in a Mass Storage System – (2006/0107097)	US	XIV
11/123633	5/6/2005	Method, System, and Circuit for Efficiently Managing a Cache Storage Device – (2006/0143383)	US	XIV
11/123634	5/6/2005	Automatic Disk Healing – (2006/0253674)	US	XIV
11/123993	5/6/2005	Data Storage Methods for Hierarchical Copies – (2006/0253683)	US	XIV
11/165976	6/24/2005	Method, System, and Circuit for Managing Task Queues in a Disk Device Controller – (2006/0294301)	US	XIV
11/182338	7/15/2005	Automatic Rebalancing of a Data Storage System – (2007/0016726)	US	XIV
11/196721	8/3/2005	Continuous Data Protection – (2007/0033370)	US	XIV
11/212436	8/26/2005	Method and Apparatus for Ensuring Data Integrity in Abundant Mass Storage Systems – (2007/0050667)	US	XIV
11/229954	9/19/2005	Managing Snapshot History in a Data Storage System – (2007/0067583)	US	XIV
11/243210	10/4/2005	Method and Apparatus for Managing a Cache Memory in a Mass Storage System – (2006/0143395)	US	XIV
11/265323	11/2/2005	Dynamic Allocation of Storage for Hierarchical Copies - (2006/0253681)	US	XIV

PATENT APPLICATIONS

Application No.	Filing Date	Title (Publication No.)	Country	Owner
11/265396	11/2/2005	Methods for Creating Hierarchical Copies – (2006/0253670)	US	XIV
11/290274	11/30/2005	Restricting Access to Improve data Availability – (2007/0124555)	US	XIV
11/302096	12/12/2005	Method and Apparatus for Managing a Cache Memory in a Mass Storage System – (2006/0112232)	US	XIV
11/311563	12/19/2005	Method and Apparatus for Ensuring Writing Integrity in Mass Storage Systems – (2007/0168754)	US	XIV
11/333393	1/17/2006	Restoring Data to a Distributed Storage Node – (2007/0174671)	US	XIV
11/345778	2/2/2006	Data Allocation in a Distributed Storage System - (abandoned)	US	XIV
11/345781	2/2/2006	Data Allocation in a Distributed Storage System – (2006/0129738)	US	XIV
11/346409	2/2/2006	Data Allocation in a Distributed Storage System - (abandoned)	US	XIV
11/429910	5/8/2006	Graphic User Interface for a Storage System – (2006/0267984)	US	XIV
11/485739	7/13/2006	System and Method for Mirroring Data – (2006/0253624)	US	XIV
11/485775	7/13/2006	Method, an apparatus and a system for managing a snapshot storage pool – (2008/0016121)	US	XIV
11/491471	7/21/2006	Instant Copy of Data in a Cache Memory via an Atomic Command – (2007/0068061)	US	XIV
11/491475	7/21/2006	Instant Copy of Data in a Cache Memory via an Atomic Command – (2007/0073987)	US	XIV
11/491555	7/21/2006	Instant Copy of Data in a Cache Memory via an Atomic Command – (2007/0073972)	US	XIV
11/518,731	9/11/2006	Storing Data Redundantly – (2008/0126912)	US	XIV
11/527034	9/26/2006	Virtual Partitioning - 2007/0073994	US	XIV
11/582664	10/17/2006	Rebuilding a Storage System – (2008/0091741)	US	XIV
11/705544	02/12/2007	System Method and Circuit for Differential Mirroring of Data – (2007/0276983)	US	XIV
11/706840	2/15/2007	Method & System for Resynchronizing Data Between a Primary and Mirror Data Storage System – (2007/0180307)	US	XIV

PATENT APPLICATIONS

Application No.	Filing Date	Title (Publication No.)	Country	Owner
11/707615	2/16/2007	A Method, an Apparatus and a System for Managing a Distributed Compression System – (2008/0201718)	US	XIV
11/708253	2/20/2007	System, Method and Circuit for Mirroring Data – (2007/0180308)	US	XIV
11/709000	2/21/2007	System and Method for Mirroring Data - 2007/0180309	US	XIV
11/840378	8/17/2007	Data Storage System (2007/0283093)	US	XIV
12/019650	1/25/2008	Thin Provisioning Migration and Scrubbing	US	XIV
12/182567	7/30/2008	Improved Performance of a Storage System	US	XIV
12/192239	8/15/2008	Dynamic Storage Pools with Thin Provisioning	US	XIV
12/261066	10/30/2008	Management of a Storage System Using Electronic Mail	US	XIV
60/620697	10/22/2004	Provisional – (Filed Utility Application 3/15/08 - 11/080328)	US	XIV
60/639780	12/29/2004	Provisional – (Filed Utility Application 5/6/05 - 11/123633)	US	XIV
60/721061	9/28/2005	Provisional – (Filed Utility Application 7/13/06 - 11/485739)	US	XIV
60/721546	9/29/2005	Provisional – (Filed 3 Utility Applications 7/21/06 - 11/491471 / 11/491475 / 11/491555)	US	XIV
60/774611	2/21/2006	Provisional – (Filed Utility Application 7/13/06 - 11/485739)	US	XIV
60/953,233	8/1/2007	Provisional – (Filed Utility Application 7/30/08 - 12/182567)	US	XIV
60/620696	10/22/2004	Provisional – (Filed Utility Application 6/1/07 - 11/756729 (Issued 7/1/08))	US	XIV
60/976572	10/1/2007	Provisional – (Filed Utility Application 1/25/08 - 12/019650)	US	XIV
60/984071	10/31/2007	Provisional – (Filed Utility Application 10/30/08 – 12/261066)	US	XIV
04254197.9	7/14/2004	Data Allocation in a Distributed Storage System	EUROPEAN	XIV
04254198.7	7/14/2004	Address Distribution Among Independent Cache Memories	EUROPEAN	XIV
42563357.7	5/23/2005	Distributed Task Queues in a Multiple-Port Storage System	EUROPEAN	XIV