

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Maranti Networks, Inc.	07/15/2005

RECEIVING PARTY DATA

Name:	EMC Corporation
Street Address:	176 South Street
City:	Hopkinton
State/Country:	MASSACHUSETTS
Postal Code:	01748

PROPERTY NUMBERS Total: 19

Property Type	Number
Application Number:	10051321
Application Number:	10051415
Application Number:	10051164
Application Number:	10051093
Application Number:	10051396
Application Number:	10051339
Application Number:	10050974
Application Number:	10051053
Application Number:	10833438
Application Number:	10833457
Application Number:	10836133
Application Number:	10836104
Application Number:	10837248
Application Number:	10837240
Application Number:	10931325

PATENT

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REEL: 016327 FRAME: 0943

CH \$760.00 10051321

Application Number:	10932365
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Application Number:	10931504
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Application Number:	10931322
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Application Number:	10931794
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CORRESPONDENCE DATA

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NAME OF SUBMITTER:	Larry E. Vierra
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Total Attachments: 7

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PATENT ASSIGNMENT AGREEMENT

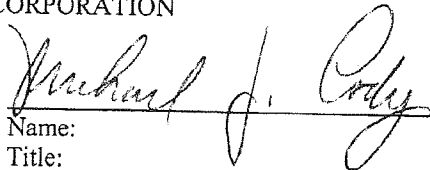
THIS ASSIGNMENT AGREEMENT ("Agreement") dated as of July 15, 2005 by and between EMC Corporation ("EMC") and Maranti Networks, Inc. ("Maranti") is entered into in connection with the Asset Purchase Agreement dated the date hereof between EMC and Maranti.

In consideration of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, EMC and Maranti hereby agree as follows:

Maranti hereby sells, conveys, transfers, assigns and delivers to EMC, all of Maranti's right, title and interest in and to all patent applications of Maranti, all divisions, continuations, continuations-in-part, reissues, reexaminations, substitutes, and extensions thereof and all patents to be issued thereto (the "Transferred Property"), including without limitation those patent applications listed on Annex A to this Agreement.

EMC CORPORATION

By:


Name:
Title:

MARANTI NETWORKS, INC.

By:

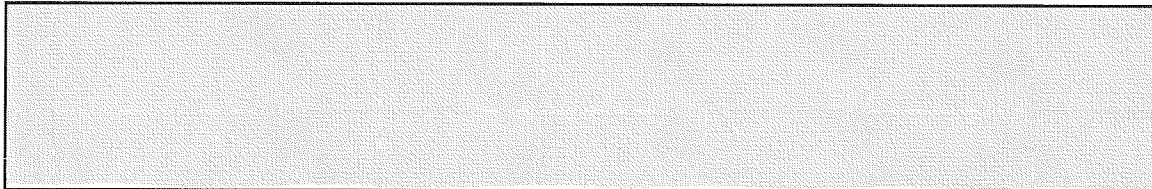
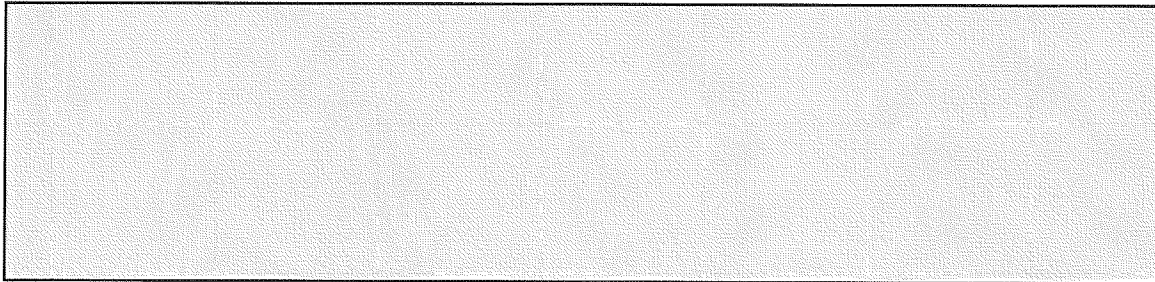
Name:
Title:

PATENT ASSIGNMENT AGREEMENT

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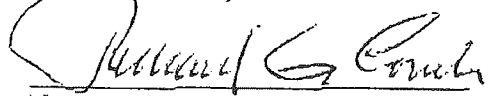
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EMC CORPORATION

By: _____
Name:
Title:

MARANTI NETWORKS, INC.

By: 
Name: Richard G. Conant
Title: CHAIRMAN / CEO

Annex A Patent Applications

VMMHD File No.	Title	Inventors	Application/ Patent No.	Application/ Grant Date	Country	Attorney	Status
1. MNTI-01000US1	STORAGE SWITCH FOR STORAGE AREA NETWORK	Santosh C. Lolayekar Yu-Ping Cheng Anoop R. Hedge Sunil K. Asthana Renato E. Maranon Wan-Hui Lee Robert T. Frey Enyew Tan	10/051,321	1/18/2002	US	LEV	Response to 1 st Office Action due 8/13/05.
2. MNTI-01000EP0	STORAGE SWITCH FOR STORAGE AREA NETWORK	Santosh C. Lolayekar Yu-Ping Cheng Anoop R. Hedge Sunil K. Asthana Renato E. Maranon Wan-Hui Lee Robert T. Frey Enyew Tan	02776044.6	9/27/2002	Europe	LEV	Renewal fee due 9/27/05
3. MNTI-01000JP0	STORAGE SWITCH FOR STORAGE AREA NETWORK	Santosh C. Lolayekar Yu-Ping Cheng Anoop R. Hedge Sunil K. Asthana Renato E. Maranon Wan-Hui Lee Robert T. Frey Enyew Tan	2003-531353	9/27/2002	Japan	LEV	Petition for Exam due 9/27/05
4. MNTI-01000W00	STORAGE SWITCH FOR STORAGE AREA NETWORK	Santosh C. Lolayekar Yu-Ping Cheng Anoop R. Hedge Sunil K. Asthana Renato E. Maranon Wan-Hui Lee Robert T. Frey Enyew Tan	PCT/US02/30974	9/27/2002	PCT	LEV	Converted to Europe and Japan
5. MNTI-01001US0	PROTOCOL TRANSLATION IN A STORAGE SYSTEM	Santosh C. Lolayekar Yu-Ping Cheng Wan-Hui Lee Renato E. Maranon Enyew Tan	10/051,415	1/18/2002	US	LEV	Awaiting 1 st Office Action from USPTO
6. MNTI-01001EP0	PROTOCOL TRANSLATION IN A STORAGE SYSTEM	Santosh C. Lolayekar Yu-Ping Cheng Wan-Hui Lee Renato E. Maranon Enyew Tan	02766398.8	9/27/2002	Europe	LEV	Renewal fee due 9/27/05
7. MNTI-01001JP0	PROTOCOL TRANSLATION IN A STORAGE SYSTEM	Santosh C. Lolayekar Yu-Ping Cheng Wan-Hui Lee	2003-531344	9/27/2002	Japan	LEV	Petition for Exam due 9/27/05

Annex A Patent Applications

VMHHD File No.	Title	Inventors	Application/ Patent No.	Application/ Grant Date	Country	Attorney	Status
8.	PROTOCOL TRANSLATION IN A STORAGE SYSTEM	Renato E. Maranon Enyew Tan Santosh C. Lodayekar Yu-Ping Cheng Wan-Hui Lee Renato E. Maranon Enyew Tan	PCT/US02/30912	9/27/2002	PCT	LEV	Converted to Europe and Japan
9.	SEVERLESS STORAGE SERVICES	Santosh C. Lodayekar Yu-Ping Cheng	10/051,164	1/18/2002	US	LEV	Awaiting 1 st Office Action from USPTO
10.	SEVERLESS STORAGE SERVICES	Santosh C. Lodayekar Yu-Ping Cheng	02799675.0	9/27/2002	Europe	LEV	Renewal fee due 9/27/05
11.	SEVERLESS STORAGE SERVICES	Santosh C. Lodayekar Yu-Ping Cheng	2003-531337	9/27/2002	Japan	LEV	Petition for Exam due 9/27/05
12.	SEVERLESS STORAGE SERVICES	Santosh C. Lodayekar Yu-Ping Cheng	PCT/US02/30970	9/27/2002	PCT	LEV	Converted to Europe and Japan
13.	PACKET CLASSIFICATION INA STORAGE SYSTEM	Santosh C. Lodayekar Yu-Ping Cheng Anoop R. Hedge Sunil K. Asthana	10/051,093	1/18/2002	US	LEV	Awaiting 1 st Office Action from USPTO
14.	PACKET CLASSIFICATION INA STORAGE SYSTEM	Santosh C. Lodayekar Yu-Ping Cheng Anoop R. Hedge Sunil K. Asthana	02768900.9	9/27/2002	Europe	LEV	Renewal fee due 9/27/05
15.	PACKET CLASSIFICATION INA STORAGE SYSTEM	Santosh C. Lodayekar Yu-Ping Cheng Anoop R. Hedge Sunil K. Asthana	2003-533501	9/27/2002	Japan	LEV	Petition for Exam due 9/27/05
16.	PACKET CLASSIFICATION INA STORAGE SYSTEM	Santosh C. Lodayekar Yu-Ping Cheng Anoop R. Hedge Sunil K. Asthana	PCT/US02/30557	9/27/2002	PCT	LEV	Converted to Europe and Japan
17.	VIRTUALIZATION IN A STORAGE SYSTEM	Santosh C. Lodayekar Yu-Ping Cheng Wan-Hui Lee Renato E. Maranon Robert T. Frey	10/051,396	1/18/2002	US	LEV	Awaiting 1 st Office Action from USPTO
18.	VIRTUALIZATION IN A STORAGE SYSTEM	Santosh C. Lodayekar Yu-Ping Cheng Wan-Hui Lee Renato E. Maranon Robert T. Frey	02763746.01	9/27/2002	Europe	LEV	Renewal fee due 9/27/05

Annex A Patent Applications

VMHHD File No.	Title	Inventors	Application/ Patent No.	Application/ Grant Date	Country	Attorney	Status
19. MNTI-01005JP0	VIRTUALIZATION IN A STORAGE SYSTEM	Santosh C. Lodayekar Yu-Ping Cheng Wan-Hui Lee Renato E. Maranon Robert T. Frey	2003-533516	9/27/2002	Japan	LEV	Petition for Exam due 9/27/05
20. MNTI-01005WO0	VIRTUALIZATION IN A STORAGE SYSTEM	Santosh C. Lodayekar Yu-Ping Cheng Wan-Hui Lee Renato E. Maranon Robert T. Frey	PCT/US02/30635	9/27/2002	PCT	LEV	Converted to Europe and Japan
21. MNTI-01006US0	ENFORCING QUALITY OF SERVICE IN A STORAGE NETWORK	Santosh C. Lodayekar Yu-Ping Cheng Enyew Tan	10/051,339	1/18/2002	US	LEV	Response to 1 st Office Action due 9/10/05.
22. MNTI-01006EP0	ENFORCING QUALITY OF SERVICE IN A STORAGE NETWORK	Santosh C. Lodayekar Yu-Ping Cheng Enyew Tan	02780394.9	9/27/2002	Europe	LEV	Renewal fee due 9/27/05
23. MNTI-01006JP0	ENFORCING QUALITY OF SERVICE IN A STORAGE NETWORK	Santosh C. Lodayekar Yu-Ping Cheng Enyew Tan	2003-538922	9/27/2002	Japan	LEV	Petition for Exam due 9/27/05
24. MNTI-01006WO0	ENFORCING QUALITY OF SERVICE IN A STORAGE NETWORK	Santosh C. Lodayekar Yu-Ping Cheng Enyew Tan	PCT/US02/30889	9/27/2002	PCT	LEV	Converted to Europe and Japan
25. MNTI-01007US0	POOLING AND PROVISIONING STORAGE RESOURCES IN A STORAGE NETWORK	Santosh C. Lodayekar Yu-Ping Cheng Renato E. Maranon Sanjay Saxena	10/050,974	1/18/2002	US	LEV	Response to 1 st Office Action filed 5/3/05. Interviewed 6/24/05.
26. MNTI-01007EP0	POOLING AND PROVISIONING STORAGE RESOURCES IN A STORAGE NETWORK	Santosh C. Lodayekar Yu-Ping Cheng Renato E. Maranon Sanjay Saxena	02766400.2	9/27/2002	Europe	LEV	Renewal fee due 9/27/05
27. MNTI-01007JP0	POOLING AND PROVISIONING STORAGE RESOURCES IN A STORAGE NETWORK	Santosh C. Lodayekar Yu-Ping Cheng Renato E. Maranon Sanjay Saxena	2003-531328	9/27/2002	Japan	LEV	Petition for Exam due 9/27/05
28. MNTI-01007WO0	POOLING AND PROVISIONING STORAGE RESOURCES IN A STORAGE NETWORK	Santosh C. Lodayekar Yu-Ping Cheng Renato E. Maranon Sanjay Saxena	PCT/US02/30914	9/27/2002	PCT	LEV	Converted to Europe and Japan
29. MNTI-01008US0	LOAD BALANCING IN A STORAGE NETWORK	Santosh C. Lodayekar Yu-Ping Cheng	10/051,053	1/18/2002	US	LEV	Response to 1 st Office Action due 9/2/05.
30. MNTI-01008WO0	LOAD BALANCING IN A STORAGE NETWORK	Santosh C. Lodayekar	PCT/US02/30913	9/27/2002	PCT	LEV	Lapsed

Annex A Patent Applications

VMMHD File No.	Title	Inventors	Application/ Patent No.	Application/ Grant Date	Country	Attorney	Status
	NETWRK	Yu-Ping Cheng					(Abandoned Europe and Japan applications.)
31. MNTI-01009US0	PROACTIVE TRANSFER READY RESOURCE MANAGEMENT IN STORAGE AREA NETWORKS	Robert T. Frey Chao Zhang	10/833,438	4/28/2004	US	DEC	Awaiting 1 st Office Action from USPTO.
32. MNTI-01009WO0	PROACTIVE TRANSFER READY RESOURCE MANAGEMENT IN STORAGE AREA NETWORKS	Robert T. Frey Chao Zhang	PCT/US05/014307	4/26/2005	PCT	DEC	PCT application filed 4/26/05. National phase filing due 10/28/06.
33. MNTI-01010US0	REACTIVE DEADLOCK MANAGEMENT IN STORAGE AREA NETWORKS	Robert T. Frey Chao Zhang	10/833,457	4/28/2004	US	DEC	Awaiting 1 st Office Action from USPTO.
34. MNTI-01010WO0	REACTIVE DEADLOCK MANAGEMENT IN STORAGE AREA NETWORKS	Robert T. Frey Chao Zhang	PCT/US05/014335	4/26/2005	PCT	DEC	PCT application filed 4/26/05. National phase filing due 10/28/06.
35. MNTI-01011US0	STORAGE SWITCH TRAFFIC BANDWIDTH CONTROL	Chao Zhang Robert T. Frey	10/836,133	4/30/2004	US	LEV	Awaiting 1 st Office Action from USPTO.
36. MNTI-01011WO0	STORAGE SWITCH TRAFFIC BANDWIDTH CONTROL	Robert T. Frey Chao Zhang	PCT/US05/014302	4/26/2005	PCT	LEV	PCT application filed 4/26/05. National phase filing due 10/30/06.
37. MNTI-01012US0	STORAGE SWITCH TASK PROCESSING SYNCHRONIZATION	Robert T. Frey Chao Zhang	10/836,104	4/30/2004	US	BIM	Awaiting 1 st Office Action from USPTO.
38. MNTI-01012WO0	STORAGE SWITCH TASK PROCESSING SYNCHRONIZATION	Robert T. Frey Chao Zhang	PCT/US05/014241	4/26/2005	PCT	BIM	PCT application filed 4/26/05. National phase filing due 10/30/06.
39. MNTI-01013US0	ONLINE INITIAL MIRROR SYNCHRONIZATION AND MIRROR SYNCHRONIZATION VERIFICATION IN STORAGE AREA NETWORKS	Robert T. Frey Chao Zhang Poulo Kurakose Rajesh Ananth Hawkins Yao	10/837,248	4/30/2004	US	DEC	Awaiting 1 st Office Action from USPTO.
40. MNTI-01013WO0	ONLINE INITIAL MIRROR SYNCHRONIZATION AND MIRROR SYNCHRONIZATION VERIFICATION IN STORAGE AREA NETWORKS	Robert T. Frey Chao Zhang Poulo Kurakose Rajesh Ananth Hawkins Yao	PCT/US05/014308	4/26/2005	PCT	DEC	National phase filing due 10/30/06.
41. MNTI-01014US0	STORAGE SWITCH MIRRORED WRITE SEQUENCE COUNT MANAGEMENT	Robert Tower Frey Chao Zhang	10/837,240	4/30/2004	US	BM	Awaiting 1 st Office Action from USPTO.
42. MNTI-01014WO0	STORAGE SWITCH MIRRORED WRITE SEQUENCE COUNT MANAGEMENT	Robert Tower Frey Chao Zhang	PCT/US05/014243	4/26/2005	PCT	BM	PCT application filed 4/26/05. National phase filing due 10/30/06.
43. MNTI-01015US0	SYSTEMS AND METHODS TO AVOID DEADLOCK AND GUARANTEE MIRROR CONSISTENCY DURING ON-LINE MIRROR SYNCHRONIZATION AND VERIFICATION	Chao Zhang Robert Tower Frey	10/931,325	8/31/2004	US	DEC	Awaiting 1 st Office Action from USPTO. National or PCT Filing due 8/31/2005.

Annex A Patent Applications

VMHD File No.	Title	Inventors	Application/ Patent No.	Application/ Grant Date	Country	Attorney	Status
44. MNTI-01016US0	STORAGE SWITCH ASYNCHRONOUS REPLICATION	Harinder Pal Singh Bhasin Ambrish Verma Poulo Kurakose Rajesh Ananthanarayanan	10/932,365	8/31/2004	US	DEC	Awaiting 1 st Office Action from USPTO. National or PCT Filing due 8/31/2005.
45. MNTI-01017US0	MULTI-CHASSIS, MULTI-PATH STORAGE SOLUTIONS IN STORAGE AREA NETWORKS	Harinder Pal Singh Bhasin Ambrish Verma Shreyas P. Gandhi Chao Zhang	10/931,504	8/31/2004	US	DEC	Awaiting 1 st Office Action from USPTO. National or PCT Filing due 8/31/2005.
46. MNTI-01018US0	SYSTEMS AND METHODS FOR ASSIGNING TASKS TO DERIVED TIMERS OF VARIOUS RESOLUTIONS IN REAL-TIME SYSTEMS TO MAXIMIZE TIMER USAGE	Chao Zhang	10/931,322	8/31/2004	US	DEC	Awaiting 1 st Office Action from USPTO. National or PCT Filing due 8/31/2005.
47. MNTI-01019US0	VIRTUAL LOGICAL UNIT STATE MAINTENANCE RULES ENGINE	Shreyas P. Gandhi	10/931,794	8/31/2004	US	DEC	Awaiting 1 st Office Action from USPTO. National or PCT Filing due 8/31/2005.