

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DATA DOMAIN HOLDING, INC.	12/31/2009
RECEIVING PARTY DATA	
Name:	EMC CORPORATION
Street Address:	176 SOUTH STREET
City:	HOPKINTON
State/Country:	MASSACHUSETTS
Postal Code:	01748
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13155273
CORRESPONDENCE DATA	
Fax Number:	(408)720-8383
Phone:	(408)720-8300
Email:	julie_farrar@bstz.com
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Correspondent Name:	BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP
Address Line 1:	1279 OAKMEAD PARKWAY
Address Line 4:	SUNNYVALE, CALIFORNIA 94085-4040
ATTORNEY DOCKET NUMBER:	6368P006C
NAME OF SUBMITTER:	Daniel M. De Vos
Total Attachments: 49 source=6368P006C Assignment Data Domain Holding, Inc. to EMC Corporation#page1.tif source=6368P006C Assignment Data Domain Holding, Inc. to EMC Corporation#page2.tif source=6368P006C Assignment Data Domain Holding, Inc. to EMC Corporation#page3.tif source=6368P006C Assignment Data Domain Holding, Inc. to EMC Corporation#page4.tif	

CH \$40.00 13155273

PATENT
REEL: 027792 FRAME: 0849

ASSIGNMENT OF PATENTS AND TRADEMARKS

THIS ASSIGNMENT ("Assignment") is effective as of the date of signature below, by and between Data Domain Holding, Inc., a Delaware corporation having its principal place of business at 176 South Street, Hopkinton, Massachusetts 01748 (hereinafter, together with all subsidiary and affiliate companies which it now or hereafter owns, or controls, the "Company"), and EMC Corporation, a Delaware corporation having its principal place of business at 176 South Street, Hopkinton, Massachusetts 01748 ("Parent").

WHEREAS, the Company owns certain patents and patent applications which are listed on attached Schedule 1 (“Assigned Patents”) and certain trademark and trademark applications which are listed on attached Schedule 2 (“Assigned Trademarks”);

WHEREAS, Parent desires to receive from the Company assignments to the Assigned Patents and Assigned Trademarks;

NOW THEREFORE, for good and valuable consideration, the Company hereby assigns to Parent, all of (a) the Company's entire right, title and interest, including the right to sue for and collect past damages, in and to the Assigned Patents, and any and all divisional applications, continuation applications, continuations-in-part, reissues, reexaminations thereof, and all pending applications therefor, which claim priority from any application from which Assigned Patents are derived, as well as, all foreign counterparts of Assigned Patents; and (b) the Company's entire right, title and interest, including the right to sue for and collect past damages, in and to the Assigned Trademarks and all goodwill associated therewith.

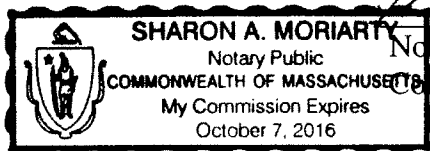
The Company hereby authorizes the Commissioner of Patents and Trademarks of the United States Patent and Trademark Office, and the empowered officials of all other governments to issue or transfer all said Assigned Patents and Assigned Trademarks to Parent, as assignee thereof, or otherwise as Parent may direct.

Signed at Hopkinton, Massachusetts, this 31st day of December, 2009

DATA DOMAIN HOLDING, INC.
By: 
Name: Paul T. Dacier
Title: President

COMMONWEALTH OF MASSACHUSETTS)
) ss.
COUNTY OF Middlesex)

Subscribed and sworn to before me on this 31st day of December 2009



Marion A. Moirault
Notary Public

PATENT
REEL: 027792 FRAME: 0850

Case Number: EMC-09-164

[REDACTED]

Country	Sub Case	Case Type	Matter Number	Status	Application Number	Filing Date	Patent Number	Issue Date
United States of America	ORD	ORD	EMC-09-164	Granted	10611237	30-Jun-2003	7424498	09-Sep-2008

Title : PROBABILISTIC SUMMARY DATA STRUCTURE BASED ENCODING FOR GARBAGE COLLECTION

United States of America 1 CON EMC-09-164CON1 Pending 11782594 24-Jul-2007

Title : PROBABILISTIC SUMMARY DATA STRUCTURE BASED ENCODING FOR GARBAGE COLLECTION

United States of America 2 DIV EMC-09-164(CON1)DIV1 Pending 11829756 27-Jul-2007

Title : PROBABILISTIC SUMMARY DATA STRUCTURE BASED ENCODING FOR GARBAGE COLLECTION IN BACKUP SYSTEMS

Thursday, December 31, 2009

Case Number: EMC-09-166

[REDACTED]

Country	Sub Case	Case Type	Matter Number	Status	Application Number	Filing Date	Patent Number	Issue Date
United States of America		ORD	EMC-09-166	Granted	10611291	30-Jun-2003	7451168	11-Nov-2008

Title : INCREMENTAL GARBAGE COLLECTION OF DATA IN SECONDARY STORAGE

United States of America	1	CON	EMC-09-166CON1	Pending	12268112	10-Nov-2008		
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Title : INCREMENTAL GARBAGE COLLECTION OF DATA IN SECONDARY STORAGE

Case Number: EMC-09-167

[REDACTED]

Country	Sub Case	Case Type	Matter Number	Status	Application Number	Filing Date	Patent Number	Issue Date
United States of America		ORD	EMC-09-167	Granted	10779355	13-Feb-2004	7574418	11-Aug-2009

Title : METHOD AND APPARATUS FOR STORING COMPOSITE DATA STREAMS

Case Number: EMC-09-168

[REDACTED]

Country	Sub Case	Case Type	Matter Number	Status	Application Number	Filing Date	Patent Number	Issue Date
United States of America		ORD	EMC-09-168	Pending	10942174	15-Sep-2004		[REDACTED]

Title : NETWORK FILE SYSTEM-BASED DATA SSTOREAGE SYSTEM

United States of America	1	DIV	EMC-09-168DIV1	Pending	11788407	19-Apr-2007		
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Title : NETWORK FILE SYSTEM-BASED DATA SSTOREAGE SYSTEM

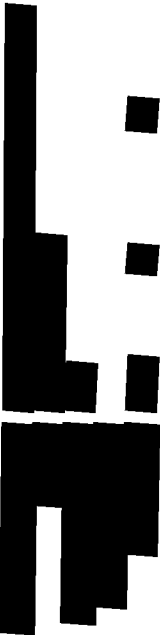
Case Number: EMC-09-169

[REDACTED]

Country	Sub Case	Case Type	Matter Number	Status	Application Number	Filing Date	Patent Number	Issue Date
United States of America		ORD	EMC-09-169	Pending	11779486	18-Jul-2007		[REDACTED]

Title : EFFICIENTLY INDEXING AND SEARCHING SIMILAR DATA

Case Number: EMC-09-170



Country	Sub Case	Case Type	Matter Number	Status	Application Number	Filing Date	Patent Number	Issue Date
Patent Cooperation Treaty		ORD	EMC-09-170WO	Published	PCTUS2008070097	15-Jul-2008		
Title : SYSTEM AND METHOD FOR PROVIDING WRITE-ONCE-READ-MANY (WORM) STORAGE								
United States of America		ORD	EMC-09-170	Published	11839453	15-Aug-2007		
Title : SYSTEM AND METHOD FOR PROVIDING WRITE-ONCE-READ-MANY (WORM) STORAGE								

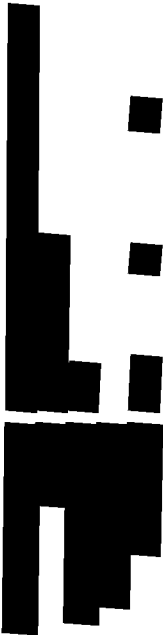
Case Number: EMC-09-171

[REDACTED]

Country	Sub Case	Case Type	Matter Number	Status	Application Number	Filing Date	Patent Number	Issue Date
United States of America		ORD	EMC-09-171	Pending	11868882	08-Oct-2007		[REDACTED]

Title : METHOD AND APPARATUS FOR PROVIDING ACCESS TO DATA OBJECTS WITHIN ANOTHER DATA OBJECT

Case Number: EMC-09-172



Country	Sub Case	Case Type	Matter Number	Status	Application Number	Filing Date	Patent Number	Issue Date
Patent Cooperation Treaty		ORD	EMC-09-172WO	Pending	PCTUS2009054965	25-Aug-2009		
Title : METHOD AND APPARATUS FOR MANAGING DATA OF A DATA STORAGE SYSTEM								
United States of America		ORD	EMC-09-172	Pending	12198021	25-Aug-2008		
Title : METHOD AND APPARATUS FOR MANAGING DATA OF A DATA STORAGE SYSTEM								

Case Number: EMC-09-173

[REDACTED]

Country	Sub Case	Case Type	Matter Number	Status	Application Number	Filing Date	Patent Number	Issue Date
United States of America		ORD	EMC-09-173	Pending	12201957	29-Aug-2008		[REDACTED]

Title : SYSTEM AND METHOD FOR COMMITTING DATA OBJECTS TO BE IMMUTABLE

Case Number: EMC-09-174

[REDACTED]

Country	Sub Case	Case Type	Matter Number	Status	Application Number	Filing Date	Patent Number	Issue Date
United States of America		ORD	EMC-09-174	Pending	12248197	09-Oct-2008		[REDACTED]

Title : SYSTEM AND METHOD FOR PROVIDING STORAGE FOR ELECTRONIC RECORDS

Thursday, December 31, 2009

[illegible]

PATENT
REEL: 027792 FRAME: 0864

Age Group	Don't know	Not a good idea	A good idea	A very good idea	A great idea
18-24	10%	10%	10%	10%	10%
25-34	10%	10%	10%	10%	10%
35-44	10%	10%	10%	10%	10%
45-54	10%	10%	10%	10%	10%
55+	10%	10%	10%	10%	40%

Age Group	Don't know	No	Yes	Probably yes	Probably no
18-29	10%	10%	40%	30%	10%
30-39	10%	10%	30%	40%	10%
40-49	10%	10%	20%	50%	10%
50-59	10%	10%	20%	50%	10%
60-69	10%	10%	20%	50%	10%

A stylized, abstract illustration of a city skyline. The buildings are represented by various geometric shapes and patterns, including vertical lines, rectangles, and irregular polygons. The colors are primarily dark, with some lighter, textured areas. The overall style is modern and artistic, with a focus on form and shadow. The buildings are arranged in a way that suggests a dense urban environment, with some taller structures rising above the others. The background is a solid dark color, making the lighter buildings stand out. The illustration has a hand-drawn or textured appearance, with some areas showing more detail than others. The overall composition is balanced and visually appealing.

[illegible]

[illegible]

A large, abstract black and white graphic featuring a dense, vertical arrangement of black bars of varying heights and widths, creating a textured, barcode-like appearance. The bars are set against a white background, with some bars extending to the edges of the frame.

1. **Introduction**
 2. **Background**
 3. **Methodology**
 4. **Results**
 5. **Discussion**
 6. **Conclusion**
 7. **References**
 8. **Appendix**
 9. **Figure 1**
 10. **Figure 2**
 11. **Figure 3**
 12. **Figure 4**
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 216. **Figure 208**
 217. **Figure 209**

PATENT
REEL: 027792 FRAME: 0871

A stylized, abstract illustration of a city skyline. The buildings are represented by various vertical rectangular shapes of different heights and widths, some with internal horizontal lines suggesting windows or architectural details. The style is dark and textured, with a monochromatic color palette. The buildings are arranged in a way that creates a sense of depth and perspective, with some appearing closer and larger than others. The overall composition is dense and vertical, emphasizing the height of the urban environment.

A stylized, abstract illustration of a city skyline. The buildings are represented by various vertical shapes and rectangles of different heights and widths, creating a sense of depth and perspective. The style is dark and textured, with a focus on geometric forms. The buildings are arranged in a way that suggests a dense urban environment, with some taller structures in the background and shorter ones in the foreground. The overall composition is vertical, with the buildings extending from the bottom towards the top of the frame. The colors are muted, with a palette of dark blues, greys, and blacks, giving it a moody and atmospheric feel. The lines are not perfectly straight, adding to the abstract and hand-drawn quality of the image.

PATENT
REEL: 027792 FRAME: 0873

PATENT
REEL: 027792 FRAME: 0874

[illegible]

PATENT
REEL: 027792 FRAME: 0876

A stylized, abstract illustration of a city skyline. The buildings are represented by various geometric shapes, primarily rectangles and squares, in different shades of dark gray and black. The composition is dense, with buildings of varying heights and widths clustered together. The overall style is modern and graphic, with a focus on form and silhouette. The background is a light, textured gray, providing a contrast to the dark buildings. The illustration is oriented vertically, matching the text on the left.

PA

PATENT

REEL: 027792 FRAME: 0877

[illegible]

[REDACTED]

[illegible]

[illegible]

[illegible]

[illegible]

Age Group	Don't know	No	Yes	Probably yes	Probably no
18-24	10%	10%	40%	20%	20%
25-34	10%	10%	30%	20%	30%
35-44	10%	10%	20%	30%	30%
45-54	10%	10%	10%	40%	30%
55-64	10%	10%	10%	50%	20%

[illegible]

PATENT
REEL: 027792 FRAME: 0887

[illegible]

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A stylized, abstract illustration of a city skyline. The buildings are represented by various geometric shapes and patterns, including vertical lines, rectangles, and irregular polygons. The colors are primarily dark, with some lighter, textured areas. The overall style is modern and artistic, with a focus on form and texture. The buildings are arranged in a way that suggests a dense urban environment, with some taller structures and many shorter ones. The background is a solid dark color, making the buildings stand out. The illustration has a hand-drawn or painted feel, with visible brushstrokes and a slightly grainy texture.

Thursday, December 31, 2009

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