502513471 09/27/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Philip Shilane	09/25/2013
Grant Wallace	09/25/2013
Frederick Douglis	09/25/2013
Guanlin Lu	09/25/2013

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:	14038637

CORRESPONDENCE DATA

502513471

Fax Number: 4087208383

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Signature:	/Kevin G. Shao/
NAME OF SUBMITTER:	Kevin G. Shao
ATTORNEY DOCKET NUMBER:	6368P078F4

REEL: 031303 FRAME: 0063

PATENT

Date:	09/27/2013
Total Attachments: 3 source=6368P078F4 Assignment signed#pasource=6368P078F4 Assignment signed#pasource=6368	age2.tif

PATENT REEL: 031303 FRAME: 0064

 ASSIGNMENT OF PATENT APPLICATION Attorney Docket No.: 6368P078F4
For good and valuable consideration, the receipt and sufficiency of which is hereby
acknowledged, I/we, the undersigned, Philip Shilane, Grant Wallace, Frederick Douglis, and
. Guanlin Lu il sava dalla da la cala da la cala da la cala de la
hereby sell, assign, and transfer to <u>EMC CORPORATION</u>
a <u>corporation</u> (Type of Assignee: e.g., corporation, company, partnership, university, etc.)
having a principal place of business at 176 SOUTH STREET, HOPKINTON, MA 01748
("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled
SYSTEM AND METHOD FOR IMPROVING DATA COMPRESSION OF A STORAGE SYSTEM
USING COARSE AND FINE GRAINED SIMILARITY. said patent application also identified as follows (when known):
[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]
United States Patent Application Number 14/038,637 filed 9/26/2013
and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filling of said United States application;
agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful caths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents

~ 1 ~

Atty. Docket No. 6368P078F4

Rev. 1/08/2010

and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no

assignment, grant, mortgage, lich conveyed has been made to oth herein expressed is possessed b	ense, or other agreement affecting the rights and property herein ers by the undersigned, and that full right to convey the same as by the undersigned.
Each Inventor: Plea	se Sign <u>and Date</u> Below:
	za central por Militaria de la compania de la comp
	Signature
en e	
	Philip Shilane Printed/Typed Name
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* Date	Signature DEPOSE THE PROPERTY SERVICES OF THE
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	Grent Wallace Printed/Typed Name
[a. 24 on/	3 January Cample Committee
<u> </u>	2 7-4-5 O-7-5 Signature 7
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	<u>Frederick Douglis</u> Printed/Typed Name
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	수 있는 일 사이트를 보고 있는 것이 되었다. 그는 사이에 가장 하는 사람들이 되었다. 현재 등에 가장 하는 것이 되었다. 이 사람들이 되었다. - 사이에 가장 보고 있는 사람들이 가장 보는 사람들이 되었다. 그는 사람들이 가장 보고 있는 것이 되었다. 그는 것이 되었다.
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and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

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

Signature
Philip Shilane Printed/Typed Name
Signature
Grant Wallace Printed/Typed Name
Signature
Frederick Douglis Printed/Typed Name Guandh Lu Signature Guanlin Lu Printed/Typed Name

Assignment Document Return Address: BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 1279 Oakmead Parkway Sunnyvale, CA 94085-4040 (408) 720-8300

RECORDED: 09/27/2013