501993952 07/18/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Frederick Douglis	04/30/2012
Windsor W. Hsu	04/27/2012
Hangwei Qian	04/27/2012

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:	13460722

CORRESPONDENCE DATA

Fax Number: (408)720-8383 Phone: 408-720-8300

Email: andy_radke@bstz.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US

Mail.

Correspondent Name: Blakely Sokoloff Taylor & Zafman LLP

Address Line 1: 1279 Oakmead Parkway
Address Line 4: Sunnyvale, CALIFORNIA 94085

ATTORNEY DOCKET NUMBER:	6368P025F3
NAME OF SUBMITTER:	Kevin G. Shao

Total Attachments: 4

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> PATENT REEL: 028581 FRAME: 0716

H \$40.00 13460/2

501993952

ASSIGNMENT OF PATENT APPLICATION

said patent application also identified as follows (when known):

Attorney Docket No.: 6368P025F3

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned,

Frederick Douglis, Windsor W. Hsu and Hangwei Qian

hereby sell, assign, and transfer to

EMC Corporation

a corporation of California, having a principal place of business at 176 south Street, Hopkinton, Massachusetts, 01748, USA ("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 CACHE REPLACEMENT USING BLOOM FILTER LOOKAHEAD APPROACH

[I/we hereby authorize an attorn number and filing date of said p	ey or agent for said Assignee to insert below the application atent application when known.]
United States Patent Application Number	r, filed,

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 filing 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 oaths, 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

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, 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.

Date

Signature

Frederick Douglis

Printed/Typed Name

Signature

Windsor W. Hsu

Printed/Typed Name

Hangwei Qian

Each Inventor: Please Sign and Date Below:

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Date

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

Signature

Printed/Typed Name

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, 20 Date	Signature
	Frederick Douglis Printed/Typed Name
, 20 Date	Signature
<u>04/27</u> , 20 <u>12</u> Date	Windsor W. Hsu Printed/Typed Name Hangwei Qian Printed/Typed Name

Each Inventor: Please Sign and Date Below:

Assignment Document Return Address:
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
1279 Oakmead Parkway
Sunnyvale, CA 94085-4040
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Each Inventor: Please Sign and Date Below:		
. 20		
Date Date	Signature	
<u> 4 / 2つ , 20 12</u> Date	Frederick Douglis Printed/Typed Name Signature	
	Windsor W. Hsu Printed/Typed Name	
, 20 Date	Signature	
	Hangwei Qian Printed/Typed Name	
	Assignment Document Return Address: BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 1279 Oakmead Parkway Sunnyvale, CA 94085-4040 (408) 720-8300	

Atty. Docket No. 6368P025F3

RECORDED: 07/18/2012

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