503408715 07/27/2015

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RANDALL SHAIN	07/15/2015
KENNETH J. TAYLOR	07/14/2015
ADRIAN MICHAUD	07/20/2015
STEPHEN WING-KIN AU	07/09/2015

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:	14788079

CORRESPONDENCE DATA

Fax Number: (631)393-6271

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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ATTORNEY DOCKET NUMBER:	EMC-15-0242
NAME OF SUBMITTER:	JOSEPH B. RYAN
SIGNATURE:	/joseph b. ryan/
DATE SIGNED:	07/27/2015

Total Attachments: 6

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PATENT 503408715 REEL: 036181 FRAME: 0206

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> PATENT REEL: 036181 FRAME: 0207

ASSIGNMENT

WHEREAS, we, Randall Shain, Kenneth J. Taylor, Adrian Michaud and Stephen Wing-Kin Au, have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled PERSISTENCE OF PAGE ACCESS HEURISTICS IN A MEMORY CENTRIC ARCHITECTURE, the specification of which:

[]	is being executed on even date herewith a States Patent Office;	nd is about to be filed in the Unite	d
[X]	was filed on June 30, 2015 as U.S. Applic	ation No. <u>14/788,079;</u>	
[]	was patented under U.S. Patent No.	on .	

WHEREAS, EMC Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts and having a usual place of business at 176 South Street, Hopkinton, Massachusetts 01748 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein:

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the

giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals as set forth below:

Date: 7/15/15	Rull Shim
	Inventor's Signature
Print full name of first inventor:	Randall Shain
Residence:	Wrentham, Massachusetts
Citizenship:	United States of America
Mailing Address:	1640 West Street
	Wrentham, Massachusetts 02093
On this/5day of	e foregoing Assignment and acknowledged that he/she

Date: 7/14/2015	Menneth / Taylor
	Inventor's Signature
Print full name of second inventor:	Kenneth J. Taylor
Residence:	Franklin, Massachusetts
Citizenship:	United States of America
Mailing Address:	6 Cooper Drive
	Franklin, Massachusetts 02038
STATE/COMMONWEALTH OF M.	assachusetts Adlesex
employee identification card; driver	the foregoing Assignment and acknowledged that
\$.	Livette S. Keller
	Notary Public S. Kelley
	Print Name: Linette S. Kelley
	My Commission expires <u>07</u> / <u>13</u> / <u>20</u> /8
	LINETTE S. KELLEY Notary Public COMMONWEALTH OF MASSACHUSETTS My Commission Expires July 13, 2018

Date: 7-20-15	Mu-
`	Inventor's Signature
Print full name of third inventor:	Adrian Michaud
Residence:	Carlisle, Massachusetts
Citizenship:	United States of America
Mailing Address:	50 Hart Farm Road
•	Carlisle, Massachusetts 01741
STATE/COMMONWEALTH OF	assachusetts iddlesex_
above-named Adrian Michaud known to me t employee identification card; [] driver's lic	regoing Assignment and acknowledged that he/she
	Notary Public S. Bolley
	,
•	Print Name: Live Tto S. Kelley
	My Commission expires <u>07</u> / <u>13</u> / <u>20</u> / 8

LINETTE S. KELLEY

Notary Public

COMMONWEALTH OF MASSACHUSETTS

My Commission Expires

July 13, 2018

Date: July 09, 2015	Inventor's Signature
	mvontoi s signature
Print full name of fourth inventor:	Stephen Wing-Kin Au
Residence:	Norwood, Massachusetts
Citizenship:	United States of America
Mailing Address:	50 Plantation Circle
	Norwood, Massachusetts 02062
STATE/COMMONWEALTH OF	Manfolk
above-named Stephen Wing-Kin Au known [] employee identification card; [X] driv to be the person whose name is subscribed	_, 2015, then personally appeared before me the a to me through satisfactory evidence of identification er's license; [_] (other) to the foregoing Assignment and acknowledged that and deed for the purposes therein contained.
	0-7-4-I
	Notary Public
	Print Name: Jomes P. Twiss
	My Commission expires <u>∂</u> / <u>+ √ / </u> / <u>C</u>

