10/13/2015 503521293

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
THOMAS L. DINGS	05/22/2006
JACOB M. JACOB	05/22/2006
SUBRAMANIAN PERIYAGARAM	05/19/2006
PASHUPATI KUMAR	05/19/2006
ROBERT W. TOOP	05/22/2006

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:	14789757

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	EMCCP086C2
NAME OF SUBMITTER:	JONG ANDREW PARK
SIGNATURE:	/Jong Andrew Park/
DATE SIGNED:	10/13/2015
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Total Attachments: 8

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ASSIGNMENT OF PATENT APPLICATION

Whereas I/we the undersigned inventor(s) have invented certain new and useful improvements as set forth in the patent application entitled:

DATA MOVER DISCOVERY OF OBJECT EXTENT

(Attorney Docket No. EMCCP086) for which I (we) have executed an application for a United States Letters Patent:

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We the undersigned inventor(s) hereby:

- 1) Sell(s), assign(s) and transfer(s) to 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, the entire right title and interest in any and all improvements and inventions disclosed in, application(s) (including foreign applications) based upon, and Patent(s) (including foreign patents) granted upon the information which is disclosed in the above referenced application and/or in any provisional application to which the above referenced application claims priority.
- 2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division(s), continuation(s), substitutes(s) or reissue(s) thereof to the ASSIGNEE.
- 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
- 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon the inventor(s), as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that I/we have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

Signed on the date(s) indicated beside my (our) signature(s).

Atty Dkt. No. EMCCP086

Page 1 of 6

Date:	5/22/2006	
		-

Inventor's Signature

Print full name of first inventor:

Residence:

Citizenship:

Mailing Address:

Thomas L. Dings

Hopkinton, MA

United States of America

6801 Koll Center

Pleasanton, CA 94566

STATE/COMMONWEALTH OF

COUNTY OF

, 2006.

Nazsacusek Norbek

Then personally appeared before me the above-named Inventor's Signature and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this and of

Notary Public

Print Name:

My Commission expires 3 / 18 / 2011

LINDA M. DeLUCA
Notary Public
Commonwealth of Massachusetts
My Commission Expires
FERRUARY 18, 2011

Date: $05/22/2006$	

2

Inventor's Signature

Print full name of first inventor:

Jacob M. Jacob

Residence:

Franklin, MA

Citizenship:

India

Mailing Address:

6801 Koll Center Pleasanton, CA 94566

STATE/COMMONWEALTH OF

______, 2006.

COUNTY OF

<u>Nasaause</u>th Ynddi

Then personally appeared before me the above-named Inventor's Signature and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this ______ day of

Notary Public

Print Name:

My Commission expires 2 / 18 / 22

LINDA M. DaLUCA
Notary Public
Notary Public
My Commission Expires
FEBRUARY 18, 2011

Date: 5 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Inventor's Signature
Print full name of first inventor:	Subramanian Periyagaram
Residence:	Sunnyvale, CA
Citizenship:	India
Mailing Address:	6801 Koll Center Pleasanton, CA 94566
STATE/COMMONWEALTH OF	colifornia
COUNTY OF	California Santas clara
	the above-named Inventor's Signature and acknowledged instrument as his/her free act and deed this day of

Rajem (200 Badavidiyor

Notary Public

Print Name: RAJESH RAOBADANIOIYOOR

My Commission expires <u>Ul</u> / <u>(o</u> / <u>></u>

Please see affectual

CA - All purpose Acknowledgen

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California	ì
County of Santon Clayer	> se.
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On <u>\$ 19 2006</u> before me,	RATESH RAO BADANIDIYOCK, MOT
personally appeared <u>SUBDA WAA</u>	11AN PERIYACARAM Name(s) of Signer(s)
	☐ personally known to me ☐ proved to me on the basis of satisfactory evidence
RAJESH RAO BADANIDIYOOR	Section of the of Chicer (e.g., Jame Doe, Notary Public) Name and Title of Chicer (e.g., Jame Doe, Notary Public) Notation of Signatus personally known to me proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. WITNESS my hand and official seal.
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San Motor County Sty Comm. Expires Jan. 10, 3008	WITNESS my hand and official seal.
Market to the the the the state of the state	Roycom Robert Badamides 20 8 Signature of Notary Problem 5/19/2006
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<u>Individual</u>	Top of from here
☐ Corporate Officer — Title(s):	
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Date: 05/19/06	Tashupaer Kuma
	Inventor's Signature
Print full name of first inventor:	Pashupati Kumar
Residence:	San Jose, CA
Citizenship:	India
Mailing Address:	6801 Koll Center Pleasanton, CA 94566
STATE/COMMONWEALTH OF COUNTY OF	alfornia
Then personally appeared before me the a that he/she executed the foregoing instrument, 2006.	above-named Inventor's Signature and acknowledged ment as his/her free act and deed this
	Rajera Rus Badanidiyar
	Notary Public
	Print Name: RAJESH RAO BADANIDIMOS
	My Commission expires <u>ℓ1/ℓ0/200</u> 8
	Please see attached on Al
	Please see attached CA-Ai Curpose Acknowledgement

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of Californía)
country of sold to story of	S SS.
On 5 19 2006 before me,	ASTESH RAO BADANWYOR WATERS
Date State	Name and Title of Officer (e.g., "Jane Doe, Notary Public")
personally appeared	Neme(s) of Signorics)
	☐ personally known to me
	proved to me on the basis of satisfactory
	evidence
	to be the percental whose percetal interes
	subscribed to the within instrument and
	acknowledged to me that he/she/they executed
	the same in his/her/their authorized
	capacity(les), and that by his/her/their 🥈
James and the second se	signature(s) on the instrument the person(s), or
RAJESH KAU BADAMUTUUN	the entity upon behalf of which the person(s)
NOTARY PUBLIC CALIFORNIA	acted, executed the instrument.
Sky Comm. Expires Jan. 16, 2008	WITNESS my hand and official seal.
The the transfer of the state o	Driver Cas Badanidering
	Signature of Notory Public
	2/14/04
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Date: 22 mg 2006 Inventor's Signature

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Robert W. Toop

Residence:

Stow, MA

Citizenship:

United States of America

Mailing Address:

6801 Koll Center

Pleasanton, CA 94566

STATE/COMMONWEALTH OF

COUNTY OF

, 2006.

Massacusetto Mu tolk

Then personally appeared before me the above-named Inventor's Signature and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this ______day of

Notary Public

Print Name: <u>LIAda ///</u>

My Commission expires <u>A</u>/<u>18</u>/<u>20</u>//

LINDA M. DeLUCA

Motery Public
Commonwealth of Massachusetts
My Commission Expires
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Atty Dkt. No. EMCCP086

RECORDED: 10/13/2015

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