

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3927955

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SAMIR RAJADNYA	06/14/2016
KARTHIK RAMACHANDRAN	04/13/2016
MICHAEL NISHIMOTO	06/14/2016
RICHARD H. VAN GAASBECK	04/13/2016
BRUCE WONG	06/14/2016
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:	15087976
CORRESPONDENCE DATA	
Fax Number:	(408)973-2595
<i>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.</i>	
Phone:	408-973-2585
Email:	vpula@ip-patent.com
Correspondent Name:	VAN PELT, YI & JAMES LLP
Address Line 1:	10050 N. FOOTHILL BLVD.
Address Line 2:	SUITE 200
Address Line 4:	CUPERTINO, CALIFORNIA 95014
ATTORNEY DOCKET NUMBER:	EMCDP007
NAME OF SUBMITTER:	LAURA ING
SIGNATURE:	/Laura Ing/
DATE SIGNED:	06/21/2016
Total Attachments: 12	

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ASSIGNMENT

WHEREAS, we, Samir Rajadnya, Karthik Ramachandran, Michael Nishimoto, Richard H. Van Gaasbeck and Bruce Wong 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 *COMMUNICATION BETWEEN AN EXTERNAL PROCESSOR AND FPGA CONTROLLER*, the specification of which:

- is being executed on even date herewith and is about to be filed in the United States Patent Office;
- was filed on March 31, 2016 as U.S. Application No. 15/087,976;
- 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: 06/14/2016

Samir Rajadnya
Inventor's Signature

Print full name of first inventor: Samir Rajadnya
Residence: San Jose, CA
Citizenship: United States
Mailing Address: 176 South Street
Hopkinton, MA 01748

STATE OF _____
COUNTY OF _____

see attached

On this _____ day of _____, 20____, before me appeared _____ who 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Public
Print Name: _____
My Commission expires ___/___/___

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of San Mateo

On June 14, 2016 before me, Jeanne M. Wu, Notary Public

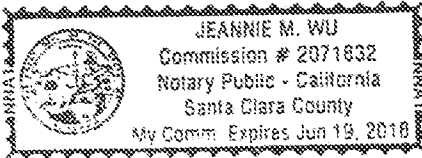
Date Here Insert Name and Title of the Officer

personally appeared Samir G. Rajadnya
Name(s) of Signer(s)

who 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.

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WITNESS my hand and official seal.



Signature [Signature]
Signature of Notary Public

Place Notary Seal Above

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EMC-16-0063

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Description of Attached Document

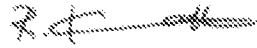
Title or Type of Document: Patent Assignment Document Date: 6-14-16
Number of Pages: _____ Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____
 Corporate Officer — Title(s): _____
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 Corporate Officer — Title(s): _____
 Partner — Limited General
 Individual Attorney in Fact
 Trustee Guardian or Conservator
 Other: _____
Signer is Representing: _____

Date: 4-18-16



Inventor's Signature

Print full name of second inventor: **Karthik Ramachandran**
Residence: **Cupertino, CA**
Citizenship: **United States**
Mailing Address: **176 South Street
Hopkinton, MA 01748**

STATE OF _____
COUNTY OF _____

see attached

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Notary Public

Print Name: _____

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State of California

County of San Mateo

On 4-13-16 before me, Jeannie M. Wu, Notary Public

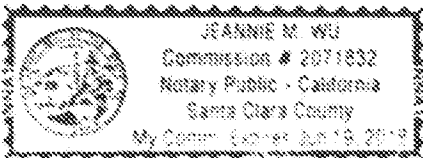
Date Here Insert Name and Title of the Officer

personally appeared Karthik Ramachandran Name(s) of Signer(s)

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Signature Jeannie M. Wu Signature of Notary Public

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Signer's Name: [] Corporate Officer -- Title(s): [] Partner -- [] Limited [] General [] Individual [] Attorney in Fact [] Trustee [] Guardian or Conservator [] Other: Signer Is Representing:

Signer's Name: [] Corporate Officer -- Title(s): [] Partner -- [] Limited [] General [] Individual [] Attorney in Fact [] Trustee [] Guardian or Conservator [] Other: Signer Is Representing:

Date: June 14, 2016

Michael Nishimoto
Inventor's Signature

Print full name of third inventor: Michael Nishimoto
Residence: Saratoga, CA
Citizenship: United States
Mailing Address: 176 South Street
Hopkinton, MA 01748

STATE OF _____
COUNTY OF _____

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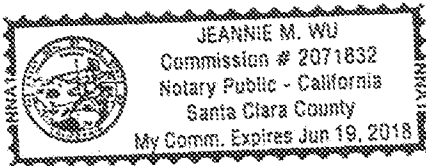
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State of California)
County of San Mateo)
On 6-14-16 before me, Jeannie M. Wu, Notary Public
Date Here Insert Name and Title of the Officer
personally appeared Michael Y. Nishimoto
Name(s) of Signer(s)

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Trustee Guardian or Conservator
Other:
Signer Is Representing:

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Partner -- Limited General
Individual Attorney in Fact
Trustee Guardian or Conservator
Other:
Signer Is Representing:

Date: 4-13-2016

Richard H. Van Gaasbeck
Inventor's Signature

Print full name of fourth inventor: **Richard H. Van Gaasbeck**
Residence: Mountain View, CA
Citizenship: United States
Mailing Address: 176 South Street
Hopkinton, MA 01748

STATE OF _____
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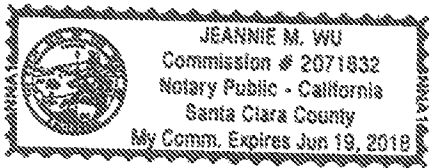
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[] Corporate Officer -- Title(s): [] Corporate Officer -- Title(s):
[] Partner -- [] Limited [] General [] Partner -- [] Limited [] General
[] Individual [] Attorney in Fact [] Individual [] Attorney in Fact
[] Trustee [] Guardian or Conservator [] Trustee [] Guardian or Conservator
[] Other: [] Other:
Signer is Representing: Signer is Representing:

Date: 6/14/2016


Inventor's Signature

Print full name of fifth inventor: **Bruce Wong**
Residence: **Mountain View, CA**
Citizenship: **United States**
Mailing Address: **176 South Street
Hopkinton, MA 01748**

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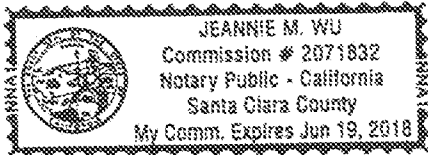
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County of San Mateo)
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personally appeared Bruce F. Wong
Name(s) of Signer(s)

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PATENT