

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Najeeb I. Ansari</td> <td>08/17/2012</td> </tr> <tr> <td>Gregg A. Bouchard</td> <td>08/28/2012</td> </tr> <tr> <td>Rajan Goyal</td> <td>08/17/2012</td> </tr> <tr> <td>Jeffrey A. Pangborn</td> <td>08/17/2012</td> </tr> </tbody> </table>		Name	Execution Date	Najeeb I. Ansari	08/17/2012	Gregg A. Bouchard	08/28/2012	Rajan Goyal	08/17/2012	Jeffrey A. Pangborn	08/17/2012
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Najeeb I. Ansari	08/17/2012										
Gregg A. Bouchard	08/28/2012										
Rajan Goyal	08/17/2012										
Jeffrey A. Pangborn	08/17/2012										
RECEIVING PARTY DATA											
Name:	Cavium, Inc.										
Street Address:	2315 N. First Street										
City:	San Jose										
State/Country:	CALIFORNIA										
Postal Code:	95131										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13565741</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13565741						
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Application Number:	13565741										
CORRESPONDENCE DATA											
Fax Number:	9783410136										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	978-341-0036										
Email:	Beverly.Weinberger@hbsr.com										
Correspondent Name:	Timothy J. Meagher, Esq.										
Address Line 1:	530 Virginia Road, P.O. Box 9133										
Address Line 2:	Hamilton, Brook, Smith & Reynolds, P.C.										
Address Line 4:	Concord, MASSACHUSETTS 01742-9133										
ATTORNEY DOCKET NUMBER:	3795.1085-002										
NAME OF SUBMITTER:	Jennifer Torpey										
Total Attachments: 10											

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PATENT
 REEL: 029132 FRAME: 0144

CH \$40.00 13565741

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JointASSIGNMENT

WHEREAS, we, **Najeeb I. Ansari, Gregg A. Bouchard, Rajan Goyal and Jeffrey A. Pangborn**, have invented a certain improvement in **A Method And Apparatus For Managing Transport Operations To A Cluster Within A Processor** described in an application for Patent,

- the specification of which is about to be filed in the United States Patent Office (*use for utility (37 CFR § 1.53(b)) and design filings only*);
- is about to be filed in the United States Patent Office as a Provisional Application;
- the specification of which is United States Application No. **13/565,741**, filed **August 2, 2012**;
- the specification of which is a Patent Cooperation Treaty Application, International Application No. [], filed [], which designates the United States of America [and is assigned United States Application No. []];
- which was patented under United States Patent No. [].

WHEREAS, **Cavium, Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Delaware**, and having a usual place of business at **2315 N. First Street, San Jose, California 95131** desires to confirm its 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 on said invention; 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 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 any and all related provisional and nonprovisional, international and national phase applications, including any and all substitution, reissue, divisional, continuation, and continuation-in-part applications; 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; we hereby expressly authorize the filing of an International Patent Application under the

Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

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 any future applications including substitution, reissue, divisional or continuation, continuation-in-part applications, and all related provisional and nonprovisional, international and national phase 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 each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: *Najeeb I. Ansari*
Najeeb I. Ansari

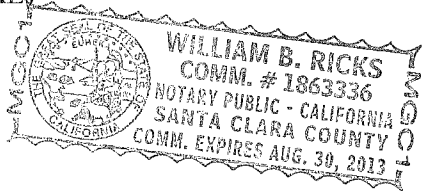
State/Commonwealth
of CALIFORNIA
County of SANTA CLARA

On this 17TH day of AUGUST 2012, before me, the undersigned notary public, personally appeared Najeeb I. Ansari,

personally known to me, or
 proved to me through satisfactory evidence of identification, which was
CALIFORNIA DRIVERS LICENSE

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)



Notary Public *William B. Ricks*
WILLIAM B. RICKS (print name)

My Commission expires 8 / 30 / 2013

Inventor's Signature: _____
Gregg A. Bouchard

State/Commonwealth
of _____
County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared Gregg A. Bouchard,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) Notary Public _____

(print name)
My Commission expires ____/____/____

Inventor's Signature: _____
Rajan Goyal

State/Commonwealth
of CALIFORNIA
County of SANTA CLARA

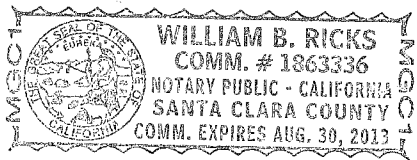
On this 17TH day of AUGUST 2012, before me, the undersigned notary public, personally appeared Rajan Goyal,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

CALIFORNIA DRIVERS LICENSE

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) Notary Public _____
WILLIAM B. RICKS (print name)
My Commission expires 8/30/2013



Inventor's Signature: Jeffrey A Pangborn
Jeffrey A. Pangborn

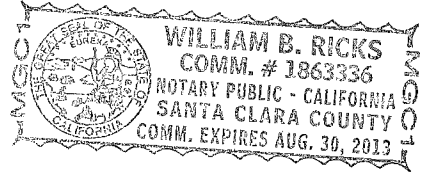
State/Commonwealth
of CALIFORNIA
County of SANTA CLARA

On this 17th day of AUGUST 2012, before me, the undersigned notary public, personally appeared Jeffrey A. Pangborn,

personally known to me, or
 proved to me through satisfactory evidence of identification, which was
CALIFORNIA DRIVERS LICENSE

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)



Notary Public William B. Ricks
WILLIAM B. RICKS (print name)
My Commission expires 8/30/2013

JointASSIGNMENT

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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 on said invention; 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 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 any and all related provisional and nonprovisional, international and national phase applications, including any and all substitution, reissue, divisional, continuation, and continuation-in-part applications, 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; we hereby expressly authorize the filing of an International Patent Application under the

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

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: _____
Najeeb I. Ansari

State/Commonwealth
of _____
County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared Najeeb I. Ansari,

- personally known to me, or
- proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public _____

(print name)

My Commission expires ____/____/____

Inventor's Signature: Gregg A. Bouchard
Gregg A. Bouchard

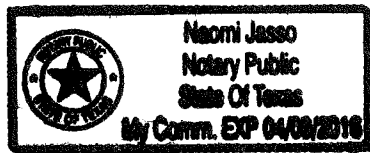
State/Commonwealth
of Texas
County of Williamson

On this 28 day of August 2012, before me, the undersigned notary public, personally appeared Gregg A. Bouchard,

personally known to me, or
 proved to me through satisfactory evidence of identification, which was
Texas drivers license

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)



Notary Public Naomi Jasso
Naomi Jasso (print name)
My Commission expires 04 / 09 / 2016

Inventor's Signature: _____
Rajan Goyal

State/Commonwealth
of _____
County of _____

On this _____ day of _____ 20____, before me, the undersigned notary public, personally appeared Rajan Goyal,

personally known to me, or
 proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public _____
_____ (print name)
My Commission expires ____ / ____ / ____

Inventor's Signature: _____

Jeffrey A. Pangborn

State/Commonwealth

of _____

County of _____

On this _____ day of _____ 20____, before me, the undersigned notary public, personally appeared Jeffrey A. Pangborn,

personally known to me, or

proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public _____

_____ (print name)

My Commission expires ____ / ____ / ____