

## PATENT ASSIGNMENT COVER SHEET

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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>WILSON P. SNYDER II</td> <td>01/15/2014</td> </tr> <tr> <td>BRYAN W. CHIN</td> <td>01/15/2014</td> </tr> <tr> <td>SHUBHENDU S. MUKHERJEE</td> <td>01/15/2014</td> </tr> <tr> <td>MICHAEL BERTONE</td> <td>01/15/2014</td> </tr> <tr> <td>RICHARD E. KESSLER</td> <td>01/15/2014</td> </tr> </tbody> </table>		Name	Execution Date	WILSON P. SNYDER II	01/15/2014	BRYAN W. CHIN	01/15/2014	SHUBHENDU S. MUKHERJEE	01/15/2014	MICHAEL BERTONE	01/15/2014	RICHARD E. KESSLER	01/15/2014
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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>14038225</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14038225								
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Application Number:	14038225												
CORRESPONDENCE DATA													
Fax Number:	(978)341-0136												
Phone:	978-341-0036												
Email:	cheryl.thomas@hbsr.com												
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>													
Correspondent Name:	TIMOTHY J. MEAGHER												
Address Line 1:	HAMILTON, BROOK, SMITH & REYNOLDS, P.C.												
Address Line 2:	530 VIRGINIA ROAD, P.O. BOX 9133												
Address Line 4:	CONCORD, MASSACHUSETTS 01742-9133												
ATTORNEY DOCKET NUMBER:	3795.1119-000												
NAME OF SUBMITTER:	CHERYL THOMAS												

Signature:	/Cheryl Thomas/
Date:	01/15/2014
Total Attachments: 4 source=3795.1119-000 Assignment#page1.tif source=3795.1119-000 Assignment#page2.tif source=3795.1119-000 Assignment#page3.tif source=3795.1119-000 Assignment#page4.tif	

JointASSIGNMENT

WHEREAS, we, **Wilson P. Snyder II, Bryan W. Chin, Shubhendu S. Mukherjee, Michael Bertone and Richard E. Kessler**, have invented a certain improvement in **Maintenance Of Cache And Tags In A Translation Lookaside Buffer** 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. **14/038,225**, filed **September 26, 2013**;
- 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, CA 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: Wilson P. Snyder II  
Wilson P. Snyder II

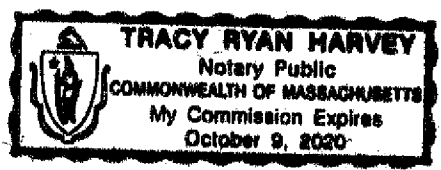
State Commonwealth  
of Mass  
County of Middlesex

On this 15 day of January 2014, before me, the undersigned notary public, personally appeared Wilson P. Snyder II,

- 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 Tracy Ryan Harvey  
(print name)  
My Commission expires      /      /     



Inventor's Signature: [Signature]  
Bryan W. Chin

State/Commonwealth  
of MASS  
County of Middlesex

On this 15 day of JAN 2014, before me, the undersigned notary public, personally appeared Bryan W. Chin,

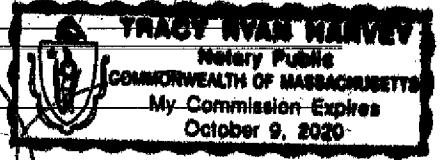
- personally known to me, or
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to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL) Notary Public [Signature]  
(print name)

Inventor's Signature: [Signature]  
Shubhendu S. Mukherjee

State/Commonwealth  
of Middlesex  
County of MASS



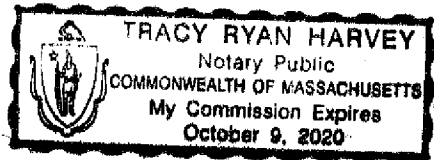
On this 15 day of January 2014, before me, the undersigned notary public, personally appeared Shubhendu S. Mukherjee,

- 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 [Signature]  
(print name)

My Commission expires \_\_\_ / \_\_\_ / \_\_\_



PATENT

