

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3881401

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SHAHID IKRAM	04/08/2016
ISAM AKKAWI	03/14/2016
RICHARD EUGENE KESSLER	04/08/2016
JAMES ELLIS	04/08/2016
DAVID ASHER	04/08/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CAVIUM, INC.
<b>Street Address:</b>	2315 N. FIRST STREET
<b>City:</b>	SAN JOSE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95131
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15065799
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(650)847-4151
<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>	
<b>Phone:</b>	650 847 4150
<b>Email:</b>	idocketing@duanemorris.com
<b>Correspondent Name:</b>	DUANE MORRIS LLP (CAVIUM GEN) IP DOCKETI
<b>Address Line 1:</b>	2475 HANOVER STREET
<b>Address Line 4:</b>	PALO ALTO, CALIFORNIA 94304-1194
<b>ATTORNEY DOCKET NUMBER:</b>	R2197-01902
<b>NAME OF SUBMITTER:</b>	DAVID T. XUE
<b>SIGNATURE:</b>	/David T. Xue/
<b>DATE SIGNED:</b>	05/19/2016
<b>Total Attachments: 4</b>	
source=01902_Assignment_FILED_5_19_16#page1.tif	

source=01902\_Assignment\_FILED\_5\_19\_16#page2.tif

source=01902\_Assignment\_FILED\_5\_19\_16#page3.tif

source=01902\_Assignment\_FILED\_5\_19\_16#page4.tif

## ASSIGNMENT OF PATENT APPLICATION

WHEREAS, **Shahid Ikram**, located at Shrewsbury, Massachusetts, **Isam Akkawi**, located at Santa Clara, California, **Richard Eugene Kessler**, located at Northborough, Massachusetts, **James Ellis**, located at Hubbardston, Massachusetts, and **David Asher**, located at Sutton, Massachusetts, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for the United States or in any other country Letters Patent:

Title of Invention:    **DESIGN AND VERIFICATION OF A MULTICHIP  
COHERENCE PROTOCOL**

U.S. Application No.: 15/065,799

U.S. Filing Date:     **March 9, 2016**

WHEREAS, **CAVIUM, INC.**, located at 2315 N. First Street, San Jose, CA 95131, hereinafter referred to as "ASSIGNEE," is desirous of acquiring ASSIGNOR interest in the said invention and application and in any U.S. or in any other country Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said Assignees, and Assignees' successors and assigns, all their right, title and interest in and to the said invention and application, and in and to any Letters Patent which may hereafter be granted on the same in the United States or in any other country, the said interest to be held and enjoyed by said Assignees as fully and exclusively as it would have been held and enjoyed by said Assignors had this Assignment and transfer not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees that they will, without charge to Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

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

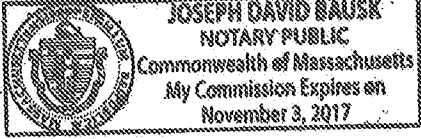
State of MASSACHUSETTS  
 County of MIDDLESEX  
 On April 8, 2016, before me, Joseph David Bausk, personally appeared SHAHID IKRAM, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they 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. MA: DRAM: LLC.

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

WITNESS my hand and official seal.

Signature [Signature] (Seal)

[Signature]  
 SHAHID IKRAM  
 Date: 04/08/2016



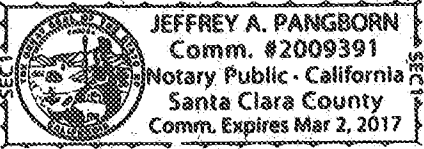
State of CALIFORNIA  
 County of Santa Clara  
 On March 14, 2016, before me, Jeffrey A Pangborn, notary public, personally appeared Isam Akkawi, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me 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.

Signature [Signature] (Seal)

[Signature]  
 ISAM AKKAWI  
 Date: 3/14/2016



IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

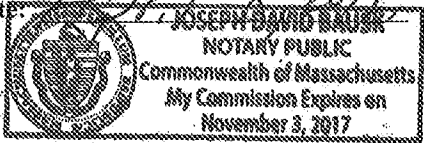
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which the certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of MASSACHUSETTS  
 County of MIDDLESEX  
 On APRIL 8, 2016, before me, JOSEPH DAVID BAUSK  
 personally appeared RICHARD EUGENE KESSLER 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. MA. DRUG LLC.

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

WITNESS my hand and official seal.

Signature [Signature] (Seal)

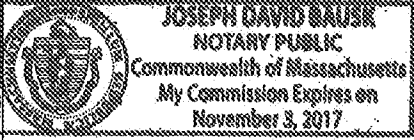
[Signature]  
 RICHARD EUGENE KESSLER  
 Date: April 8, 2016  


State of MASSACHUSETTS  
 County of MIDDLESEX  
 On APRIL 8, 2016, before me, JOSEPH DAVID BAUSK  
 personally appeared JAMES ELLIS, 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. MA. DRUG LLC.

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


WITNESS my hand and official seal.

Signature [Signature] (Seal)

[Signature]  
 JAMES ELLIS  
 Date: 4/8/16  


IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

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

<p>State of MASSACHUSETTS  County of <u>MIDDLESEX</u></p> <p>On <u>APRIL 8, 2016</u>, before me, <u>JOSEPH DAVID BAUSK</u>  personally appeared <u>DAVID ASHER</u>, 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. <u>MA. DRUG LIC.</u></p> <p>I certify under PENALTY OF PERJURY under the laws of the State of Massachusetts  that the foregoing paragraph is true and correct.</p> <p>WITNESS my hand and official seal.</p> <p>Signature <u>[Signature]</u> (Seal)</p>	<p><u>[Signature]</u>  DAVID ASHER</p> <p>Date: <u>4/8/2016</u></p> <p> <b>JOSEPH DAVID BAUSK</b>  NOTARY PUBLIC  Commonwealth of Massachusetts  My Commission Expires on  November 3, 2017</p>
--	---