502105780 10/24/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

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
Satyanarayana Lakshmipathi Billa	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

Property Type	Number
Application Number:	13565749

CORRESPONDENCE DATA

Fax Number: 9783410136

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 978-341-0036

Email: beverly.weinberger@hbsr.com

Correspondent Name: Timothy J. Meagher

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:	3795.1085-004
NAME OF SUBMITTER:	beverly.weinberger@hbsr.com

PATENT

REEL: 029182 FRAME: 0827

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Total Attachments: 10

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PATENT REEL: 029182 FRAME: 0828

Joint

ASSIGNMENT

WHEREAS, we, Najeeb I. Ansari, Gregg A. Bouchard, Rajan Goyal, Jeffrey A. Pangborn and Satyanarayana Lakshmipathi Billa, have invented a certain improvement in Method and Apparatus for Managing Processing Thread Migration Between Clusters 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. 13/565,749, 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: Xe Ama.		
Najeeb I. Ansari		
State/Commonwealth of CAGCORM		
County of SANTA CLARA		
On this day of day of 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 DRIVER'S 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 COMM. # 1863336 (print name)		
SANTA CLARA COUNTY My Commission expires / 3/20/3		

Inventor's Signature: Great Gr	egg A. Bouchard
State/Commonwealth of CAHFORMIN	
County of SANTA ALAFA	
On this 17 day of AUGU public, personally appeared Gregg A. Bou	20 18, before me, the undersigned notary chard,
personally known to me, or	
proved to me through satisfactory	evidence of identification, which was
OAL FORMIN STATE DRI	YER'S LICENSE
	on the foregoing instrument in my presence, and going instrument as his/her free act and deed.
SEALWILLIAM B. RICKS Z	Notary Public Helling to Steel
COMM. # 1863336 D HOTARY PUBLIC - CALIFORNIA D	
COMM. EXPIRES AUG. 30, 2013	My Commission expires 8/30/2013
Inventor's Signature:	Rajan Goyal
State/Commonwealth of CALFOLNIA County of SANTA ALALA	
On this 17 TH day of Allqus public, personally appeared Rajan Goyal,	2012, before me, the undersigned notary
personally known to me, or	
proved to me through satisfactory	evidence of identification, which was
CALIFORNIA DENEK	s hicknet
	on the foregoing instrument in my presence, and going instrument as his/her free act and deed.
(SEAL)	Notary Public Allen & Ricks (print name)
WILLIAM B. RICKS S	My Commission expires 8 / 30 / 2017
ONTERPOLITION TO THE PROPERTY OF THE PROPERTY	- 4 -

Inventor's Signature: Affrey Clan		
State/Commonwealth	ey A. Pangborn	
of CALIFORNIA OLAFA County of SANTA OLAFA		
On this day of	$\frac{7}{20/2}$, before me, the undersigned notary born,	
personally known to me, or		
proved to me through satisfactory ev	vidence of identification, which was	
CALIFORNIA DRIVERS	LICENSE	
to be the person whose name was signed on acknowledged that he/she signed the foregodynamics william B. RICKS	all the state of	
(SEAL)COMM. # 1863336 SOUTH NOTARY PUBLIC - CALIFORNIA D	Notary Public All To Ricks (print name)	
SANTA CLARA COUNTY O COMM. EXPIRES AUG. 30, 2013	4	
	My Commission expires 8/30/2012	
Inventor's Signature: Sollak	Shoni paths B	
Satyanaraya	ına Lakshmipathi Billa	
State/Commonwealth of Alefalia County of SANYA CLANA		
On this 17Th day of AUGUS public, personally appeared Satyanarayana	2014, before me, the undersigned notary Lakshmipathi Billa,	
personally known to me, or		
proved to me through satisfactory e	vidence of identification, which was	
CALIFOLKIA DRIVERIS	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 Allan B. Ricks (print name)	
	(Dillie littling)	
WILLIAM B. RICKS COMM. # 1863336 DEPARTMENT OF THE PROPERTY OF	My Commission expires 8 130 Mol3	

Joint

ASSIGNMENT

WHEREAS, we, Najeeb I. Ansari, Gregg A. Bouchard, Rajan Goyal, Jeffrey A. Pangborn and Satyanarayana Lakshmipathi Billa, have invented a certain improvement in Method and Apparatus for Managing Processing Thread Migration Between Clusters 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. 13/565,749, filed August 2, 2012;	

the specification of which is a Patent Cooperation Treaty Application,

International Application No. [], filed [], which designates the United States

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;

of America I and is assigned United States Application No. []:

which was patented under United States Patent No. [].

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 self, 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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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	b I. Ansari	
State/Commonwealth			
of County of			
County or			
On this		20 , before me, the undersigned notary	y
public, personally appe	ared Najeeb I. Ansari,		
personally know	m to me, or		
nroyed to me th	rough estisfactory syids	ence of identification, which was	
proved to me un	lough sansiactory evide.	shee of identification, which was	
to be the person whose	name was signed on the	e foregoing instrument in my presence, and	
		g instrument as his/her free act and deed.	
(SEAL)	No	otary Public	
		(print nan	ne)
	M	Iy Commission expires//	

Inventor's Signature:	; Cy. Buchard
The state of the s	Gregg A. Bouchard
State/Commonwealth of Texas County of Williamam	
On this day of day of public, personally appeared Gregg A. B	2013, before me, the undersigned notary ouchard,
personally known to me, or	
proved to me through satisfactor	ry evidence of identification, which was
Texas drivers liters	<u>e</u>
	d on the foregoing instrument in my presence, and regoing instrument as his/her free act and deed.
(SEAL) Naomi Jasso Notary Public State Of Texas My Comm. EXP 04/0	Marrie La pro
Inventor's Signature:	D : C 1
State/Commonwealth of County of	Rajan Goyal
On this day of public, personally appeared Rajan Goya	20 , before me, the undersigned notary al,
personally known to me, or	
proved to me through satisfactor	ry evidence of identification, which was
	d on the foregoing instrument in my presence, and regoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires//

- 4 -

Inventor's Signature:	
	ey A. Pangborn
State/Commonwealth	
ofCounty of	
County of	
On this day of	, before me, the undersigned notary
public, personally appeared Jeffrey A. Pang	born,
personally known to me, or	
proved to me through satisfactory ev	vidence 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//
	iviy Commission expiresi
Instanta la Ciamatana	
Inventor's Signature:Satyanaraya	ına Lakshmipathi Billa
State/Commonwealth	na Laksimipatii Biia
of County of	
	20, before me, the undersigned notary
public, personally appeared Satyanarayana	Laksnmipaini Bilia,
personally known to me, or	
proved to me through satisfactory ev	vidence of identification, which was
	the foregoing instrument in my presence, and bing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires / /

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