

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| YUANBIN GUO | 12/07/2017 |
| 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: | 15683376 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <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> | |
| Email: | jimwu@jwlawgroup.com |
| Correspondent Name: | JW LAW GROUP |
| Address Line 1: | 84 WEST SANTA CLARA STREET |
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| ATTORNEY DOCKET NUMBER: | 1128.P0023US |
| NAME OF SUBMITTER: | JAMES M. WU |
| SIGNATURE: | /James M. Wu/ |
| DATE SIGNED: | 12/07/2017 |
| Total Attachments: 2 | |
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| source=1128_P0023Assignment#page2.tif | |

ASSIGNMENT

WHEREAS, I,

Yuanbin Guo, a citizen of the United States of America, residing at 562 N. Montebello Street, Mountain House, CA 95391, USA, has made an invention in:

METHODS AND APPARATUS FOR UPLINK CONTROL CHANNEL DETECTION

for which I have executed application papers for a U.S. patent thereon; and

WHEREAS, Cavium, Inc., a Delaware Corporation, having a place of business located at 2315 N. First Street, San Jose, CA, 95131, USA, is desirous of acquiring the exclusive right, title and interest in and to said invention and in and to the Letters Patent to be granted and issued therefore in the United States of America and its territories and possessions, and all countries foreign thereto;

NOW, THEREFORE, for a valuable consideration, the receipt of which is hereby acknowledged, Yuanbin Guo does sell, assign, transfer and set over unto the said Cavium, Inc., its successors and assigns the full and exclusive right, title and interest in and to said invention, and in and to any and all Letters Patent to be granted and issued therefore, not only for, to and in the United States of America, its territories and possessions, but also for, to and in all other countries including all priority rights under the International Convention; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said Cavium, Inc., its successors and assigns, in accordance with this Assignment. IN TESTIMONY WHEREOF, I have hereunto signed my name on the date indicated hereinafter:

Re: U.S. Patent Application entitled:

METHODS AND APPARATUS FOR UPLINK CONTROL CHANNEL DETECTION

1) Inventor: **Yuanbin Guo**

Signature: *Yuanbin Guo*
Yuanbin Guo

Date: Dec 7th, 2017

ACKNOWLEDGMENT

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 Santa Clara

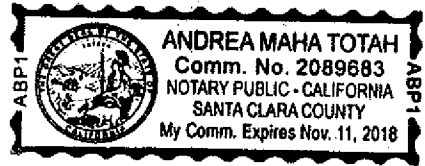
On Dec 7, 2017 before me, Andrea Maha Totah, notary public

personally appeared Yuanbin Guo

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 *Andrea Maha Totah* (Seal)