503395435 07/16/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3442060

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MICHAEL ANTHONY RAMALHO	07/01/2015
XIAOQING ZHU	07/02/2015
PAUL EDWIN JONES	07/13/2015

RECEIVING PARTY DATA

Name:	CISCO TECHNOLOGY, INC.	
Street Address: 170 WEST TASMAN DRIVE		
City:	SAN JOSE	
State/Country:	CALIFORNIA	
Postal Code:	95134	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14799922

CORRESPONDENCE DATA

Fax Number:

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.

Email: dawn.grimes@piblaw.com

Correspondent Name: PARKER IBRAHIM & BERG LLC

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ATTORNEY DOCKET NUMBER:	0140803.U
NAME OF SUBMITTER:	KENNETH J. HEYWOOD
SIGNATURE: /Kenneth J. Heywood/	
DATE SIGNED:	07/16/2015

Total Attachments: 9

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PATENT 503395435 REEL: 036112 FRAME: 0584

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PATENT REEL: 036112 FRAME: 0585

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by Michael Anthony Ramalho; Xiaoqing Zhu; and Paul Edwin Jones (hereinafter referred to as Assignors), residing at 6310 Watercrest Way Unit 203, Lakewood Ranch, FL 34202-5211; 3415 Cacius Wren Way, Austin, TX, 78746; and 1870 Lazio Lane, Apex, NC 27502, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in ACCELERATED RAMP UP FOR DELAY-BASED RATE ADAPTATION, set forth in a Patent application for Letters Patent of the United States, filed herewith; and

WHEREAS, Cisco Technology, Inc., a corporation organized under and pursuant to the laws of California having its principal place of business at 170 West Tasman Drive, San Jose, California 95134 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

PARKER IBRAHIM & BERG LLC

All practitioners at Customer Number 126982

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Date:	Signature: _	Michael Anthony Ramalho
Date:	Signature:	Xiaoqing Zhu
Date:	Signature:	Paul Edwin Jones

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PATENT REEL: 036112 FRAME: 0589 AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

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CPOL# 998242 - 0140803.U

PATENT REEL: 036112 FRAME: 0590 AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

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All practitioners at Customer Number 126982

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Date:	Signature:Michael Anthony Ramalho	
Date: July 2, 2015	Signature Xiaoqing Zhu	
Date:	Signature:Paul Edwin Jones	

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benefit of Assignee, its successors, legal representatives and assigns.

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PARKER IBRAHIM & BERG LLC

All practitioners at Customer Number 126982

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Date:		Signature:	
			Michael Anthony Ramalho
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Date:		Signature:	Xiaoging Zhu
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Date:	07/13/15	Signature:	Part Findan
			Paul Edwin Jones

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