503973484 08/23/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4020140

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NATARAJ BACTHU	08/19/2016
RAGHAVA SIVARAMU	08/19/2016
SRINIVASAN RAMABADRAN	08/22/2016
TERRY FANGCHENG TANG	08/18/2016
LENIN BABU DONTUBOYINA	08/17/2016

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:	15216651

CORRESPONDENCE DATA

Fax Number: (310)556-1802

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.

Phone: 415-814-6161 **Email:** bvo@polsinelli.com

Correspondent Name: CISCO TECHNOLOGY, INC. C/O POLSINELLI PC

Address Line 1: 1000 LOUISIANA STREET Address Line 2: FIFTY-THIRD FLOOR HOUSTON, TEXAS 77002

ATTORNEY DOCKET NUMBER:	543236(1003544-US.01)
NAME OF SUBMITTER:	BENJAMIN B. MATTHEW
SIGNATURE:	/Benjamin B. Matthew/
DATE SIGNED:	08/23/2016
	•

Total Attachments: 6

PATENT REEL: 039513 FRAME: 0414

ource=543236Assignment#page1.tif	
ource=543236Assignment#page2.tif	
ource=543236Assignment#page3.tif	
ource=543236Assignment#page4.tif	
ource=543236Assignment#page5.tif	
ource=543236Assignment#page6.tif	

PATENT REEL: 039513 FRAME: 0415 Client Ref. No.: CPOL 1003544-US.01 Attorney Docket No.: 543236(1003544-US.01)

ASSIGNMENT (JOINT)

THIS ASSIGNMENT, by Nataraj Bacthu; Raghava Sivaramu; Srinivasan Ramabadran; Terry Fangcheng Tang; and Lenin Babu Dontuboyina (hereinafter referred to collectively as the "Assignors"), witnesseth:

WHEREAS, said Assignors have invented certain new and useful improvements in: BIDIRECTIONAL MULTICASTING OVER VIRTUAL PORT CHANNEL, set forth in an application for Letters Patent of the United States with U.S. Application No. 15/216,651, filed on July 21, 2016.

WHEREAS, CISCO TECHNOLOGY, INC., a corporation duly organized under and pursuant to the laws of the State of California, and having a principal place of business at 170 West Tasman Drive, San Jose, California 95134 (hereinafter referred to as the "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions and applications for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

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

FOR THE SAME CONSIDERATION, said Assignors hereby covenant and agree to and with said Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said Assignors are the lawful owners of the entire right, title and interest in and to said invention and the application for Letters Patent above mentioned, and that the same is unencumbered and that said 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, said Assignors hereby covenant and agree to and with said Assignee, its successors, legal representatives and assigns, that said Assignors will, whenever counsel of said Assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, 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 Letters Patent for said inventions, without charge to said Assignee, its successors, legal representatives and assigns, but at the cost and expense of said Assignee, its successors, legal representatives and assigns.

FOR THE SAME CONSIDERATION, said Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said Assignee, its successors, legal representatives and assigns, Assignors' interest in the entire right, title and interest in all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to Assignee, or may accrue hereafter including, but not limited to, the right to sue for, collect, and retain damages for past infringement of the said Patents and Applications before or after issuance.

Date: Aly 19, 2016	Signature:	BAUS Nataraj Baethu	
Date:	Signature:	Raghava Sivaraniu	
Date:	Signature:	Srinivasan Ramabadran	
Date:	Signature:	Terry Fangcheng Tang	
Date:	Signature:_	Lenin Rahu Dantuhavina	

Date:	Signature:
Date: 08/19/16	Signature: Raghava Sivaramu
Date:	Signature: Srinivasan Ramabadran
Date:	Signature: Terry Fangcheng Tang
Date:	Signature: Lenin Babu Dontuboyina

Date:	Signature:	
	Nataraj Bacthu	
Date:	Signature:	
	Raghava Sivaramu	
Date: 08 / 22 / 2016	Raghava Sivaramu Signature:	
	Sriniyasan Ramabadran	
Date:		
	Terry Fangcheng Tang	
Date:	Signature:	
	Lenin Rahu Dontubovina	

Date:		Nataraj Bacthu
Date:	Signature:	
19		Raghava Sivaramu
Date:	Signature:_	
Date: 8/18/2016		Srinivasan Ramabadran
A		Terry Fangcheng Tang
Date:	Signature:	
		Lenin Babu Dontuboyina

Client Ref. No.: CPOL 1003544-US.01

Attorney Docket No.: 543236(1003544-US.01)

IN WITNESS WHEREOF, Assignors have thus set their hands on the dates below written.

Date:	Signature:	
	Nataraj Bacthu	
Date:	Signature:	
:	Raghava Sivarama	
Date:	Signature:	
	Srinivasan Ramahadran	
Date:	Signature:	
	Terry Fangcheng Tang	
Date: 8/17/2-016	Signature: Well & S. S.	
	Lenin Babu Dontuboyina	

Page 2 of 2