503808797 05/02/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

EPAS ID: PAT3855445

CONVEYING PARTY DATA

Name	Execution Date
DAVID R. ORAN	04/29/2016
JAMES CAMERON GIBSON	04/29/2016
MAZIAR MIRZAZAD BARIJOUGH	04/29/2016

RECEIVING PARTY DATA

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City:	SAN JOSE	
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Postal Code:	95134	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15144551

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	03919.0951 1001201-US.01	
NAME OF SUBMITTER:	BRANDI W. SARFATIS	
SIGNATURE: /Brandi W. Sarfatis/		
DATE SIGNED:	05/02/2016	

Total Attachments: 4

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PATENT 503808797 REEL: 038439 FRAME: 0440

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, said application having been executed on the date set forth below; and

WHEREAS, Cisco Technology, Inc. (hereinafter referred to as "Assignee"), a California Corporation, with an address of 170 West Tasman Drive, San Jose, California 95134, desires to acquire my entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for and in consideration of One United States Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I assign to Assignee, all right, title and interest in and to said invention and in and to said application and all patents which may be granted therefore, and all provisional, divisions, reissues, continuations, continuations-in-part and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as my interest is concerned, to Assignee.

I also assign to Assignee, all right, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee.

I will communicate to Assignee any facts known to me respecting any improvements; and, at the expense of Assignee, I will testify in any legal proceedings, sign all lawful papers, execute all provisional, divisional, continuation, continuation-in-part, reissue and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said invention in all countries.

This Assignment shall be binding on the parties' successors, assigns and legal representatives.

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Title of Invention:

OPTIMIZED IN-NETWORK RETRANSMISSION FOR INFORMATION-CENTRIC NETWORKING PROTOCOLS

Full name of inventor:

David R. Oran

Inventor's signature:

Date:

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4 Shady Hill Square Cambridge, MA 02138

> PATENT REEL: 038439 FRAME: 0442

Title of Invention:

OPTIMIZED IN-NETWORK RETRANSMISSION FOR INFORMATION-CENTRIC NETWORKING PROTOCOLS

Full name of inventor:

James Cameron Gibson

Inventor's signature:

Date:

7.00 21, -010

Post Office Address:

44 Chilton Street Belmont, MA 02478 Title of Invention:

OPTIMIZED IN-NETWORK RETRANSMISSION FOR INFORMATION-CENTRIC NETWORKING PROTOCOLS

Full name of inventor:

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Inventor's signature:

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> PATENT REEL: 038439 FRAME: 0444

RECORDED: 05/02/2016