

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5446027

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the CORRESPONDENCE INFORMATION FROM "QUALCOMM INCORPORATED" TO "HARRITY & HARRITY, LLP" previously recorded on Reel 048051 Frame 0920. Assignor(s) hereby confirms the ASSIGNMENT.
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GOPI KANCHARLA	01/10/2019
DAVID GILLAM	01/10/2019
CHRIS SERING	01/15/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CAPITAL ONE SERVICES, LLC
<b>Street Address:</b>	1680 CAPITAL ONE DRIVE
<b>City:</b>	MCLEAN
<b>State/Country:</b>	VIRGINIA
<b>Postal Code:</b>	22102
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16249621
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
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<b>Address Line 2:</b>	SUITE 600
<b>Address Line 4:</b>	FAIRFAX, VIRGINIA 22030
<b>ATTORNEY DOCKET NUMBER:</b>	0104-0205
<b>NAME OF SUBMITTER:</b>	JACODIE CATO
<b>SIGNATURE:</b>	/Jacodie Cato/
<b>DATE SIGNED:</b>	03/28/2019
<b>Total Attachments: 6</b>	

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United States Patent and Trademark Office

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The coversheet of the assignment is displayed below:

**PATENT ASSIGNMENT COVER SHEET**

Electronic Version v1.1

Stylesheet Version v1.2

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT										
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>GOPI KANCHARLA</td><td>01/10/2019</td></tr><tr><td>DAVID GILLAM</td><td>01/10/2019</td></tr><tr><td>CHRIS SERING</td><td>01/15/2019</td></tr></tbody></table>	Name	Execution Date	GOPI KANCHARLA	01/10/2019	DAVID GILLAM	01/10/2019	CHRIS SERING	01/15/2019			
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<table border="1"><tr><td><b>Name:</b></td><td>CAPITAL ONE SERVICES, LLC</td></tr><tr><td><b>Street Address:</b></td><td>1680 CAPITAL ONE DRIVE</td></tr><tr><td><b>City:</b></td><td>MCLEAN</td></tr><tr><td><b>State/Country:</b></td><td>VIRGINIA</td></tr><tr><td><b>Postal Code:</b></td><td>22102</td></tr></table>	<b>Name:</b>	CAPITAL ONE SERVICES, LLC	<b>Street Address:</b>	1680 CAPITAL ONE DRIVE	<b>City:</b>	MCLEAN	<b>State/Country:</b>	VIRGINIA	<b>Postal Code:</b>	22102	
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<b>Application Number:</b>	16249621										
<b>CORRESPONDENCE DATA</b>											
<b>Fax Number:</b>	(571)432-0808										
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<b>Correspondent Name:</b>	QUALCOMM INCORPORATED
<b>Address Line 1:</b>	11350 RANDOM HILLS ROAD
<b>Address Line 2:</b>	SUITE 600
<b>Address Line 4:</b>	FAIRFAX, VIRGINIA 22030
<b>ATTORNEY DOCKET NUMBER:</b>	0104-0205
<b>NAME OF SUBMITTER:</b>	NEIL R. KARDOS
<b>Signature:</b>	/Neil R. Kardos, Reg. No. 67,238/
<b>Date:</b>	01/17/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).
<b>Total Attachments: 2</b> source=0104-0205_DeclarationAssignment_FINAL#page1.tif source=0104-0205_DeclarationAssignment_FINAL#page2.tif	
<b>RECEIPT INFORMATION</b>  <b>EPAS ID:</b> PAT5331222 <b>Receipt Date:</b> 01/17/2019	

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## UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JANUARY 18, 2019

PTAS

QUALCOMM INCORPORATED  
11350 RANDOM HILLS ROAD  
SUITE 600  
FAIRFAX, VA 22030

**505284448**

### UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 01/17/2019

REEL/FRAME: 048051/0920  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 0104-0205

ASSIGNOR:  
KANCHARLA, GOPI

DOC DATE: 01/10/2019

ASSIGNOR:  
GILLAM, DAVID

DOC DATE: 01/10/2019

ASSIGNOR:  
SERING, CHRIS

DOC DATE: 01/15/2019

ASSIGNEE:  
CAPITAL ONE SERVICES, LLC  
1680 CAPITAL ONE DRIVE  
MCLEAN, VIRGINIA 22102

APPLICATION NUMBER: 16249621

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: COMPUTING NODE JOB ASSIGNMENT FOR DISTRIBUTION OF SCHEDULING  
OPERATIONS

ASSIGNMENT RECORDATION BRANCH  
PUBLIC RECORDS DIVISION

**ASSIGNMENT AND DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION**

I am an inventor (referred to below as Assignor) of an invention entitled: COMPUTING NODE JOB ASSIGNMENT FOR DISTRIBUTION OF SCHEDULING OPERATIONS

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filed herewith. Capital One Services, LLC, a corporation of Delaware whose post office address is 1680 Capital One Drive, McLean, VA 22102 (hereinafter referred to as Assignee), desires to obtain an assignment of this invention;

THEREFORE, for good and valuable consideration, I have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over to Assignee, its successors and assigns, my entire right, title, and interest in and to this invention, and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues and reexaminations thereof, and all rights to claim priority in any foreign country on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application in any foreign country, and all applications for Letters Patent which may become filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, reexaminations and reissues thereof; and I authorize and request the Director of the United States Patent and Trademark Office (USPTO) and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

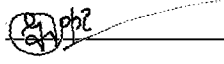
AND, I authorize and request that the attorneys having Power of Attorney in this application, insert here in parentheses (Application No. 16/249,621, filed January 16, 2019) the filing date and application number of said application when known.

**DECLARATION:**

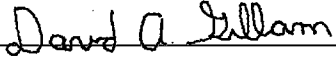
As a named inventor below, I declare that: (1) This declaration is directed to the above-identified application; (2) the above-identified application was made or authorized to be made by me; (3) my residence and mailing address are as stated below next to my name; and (4) I believe I am an original inventor or an original joint inventor of a claimed invention in the application. I acknowledge that any willful false statements made in this declaration are punishable by fine or imprisonment of not more than five (5) years, or both, under section 1001 of Title 18 of the United States Code.

As a below named inventor, I have reviewed and understand the contents of the application, including the claims, and am aware of the duty to disclose to the USPTO all information known to me to be material to patentability as defined in 37C.F.R. § 1.56.


## Assignor (Inventor) 1:

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Signature:   
Date: 1/10/2019

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Signature:   
Date: 1/10/2019

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75495  
Signature:   
Date: 1/15/2019