

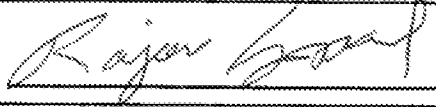
PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3549122

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
RAJEEV GOPAL	09/18/2015
CHANNASANDRA RAVISHANKAR	09/24/2015
RECEIVING PARTY DATA	
Name:	HUGHES NETWORK SYSTEMS, LLC
Street Address:	11717 EXPLORATION LANE
City:	GERMANTOWN
State/Country:	MARYLAND
Postal Code:	20854
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14817181
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>	
Phone:	301-760-4343
Email:	Craig@potomactechlaw.com
Correspondent Name:	POTOMAC TECHNOLOGY LAW, LLC
Address Line 1:	9713 SOTWEED DRIVE
Address Line 4:	POTOMAC, MARYLAND 20854
ATTORNEY DOCKET NUMBER:	P1177US01
NAME OF SUBMITTER:	CRAIG PLASTRIK
SIGNATURE:	/Craig Plastrik/
DATE SIGNED:	09/30/2015
Total Attachments: 2	
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PATENT ASSIGNMENT

Assignor(s):	Rajeev GOPAL and Channasandra RAVISHANKAR		
Assignee:	Hughes Network Systems, LLC 11717 Exploration Lane, Germantown, Maryland, 20876, USA		
Patent Application(s):			
Title: CENTRALIZED GROUND-BASED ROUTE DETERMINATION AND TRAFFIC ENGINEERING FOR SOFTWARE DEFINED SATELLITE COMMUNICATIONS NETWORKS			
<input type="checkbox"/> executed by the undersigned concurrently herewith			
<input checked="" type="checkbox"/> Application No(s): 14817181 Filing Date: 2015-08-03			
<p>In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, I/we, the above-named Assignors, hereby:</p> <p>sell, assign and transfer to the above-named Assignee (and its successors, assigns and legal representatives) the entire right, title and interest (for the United States and all foreign countries) in and to: (1) the above-identified patent application(s) ("the Application(s)"), including any and all improvements that are disclosed in the Application(s); and (2) all divisional, continuing, substitute, renewal, reissue and all other patent applications, which have been or are subsequently filed in the United States and any and all foreign countries, based on or claiming priority to the Application(s), or based on any of said improvements; and (3) all original and reissued patents that have been or are subsequently issued in the United States and any and all foreign countries from the Application(s) or based on any of said improvements; and (4) any and all rights of priority arising from the filing of the Application(s) in the United States and any and all foreign countries; and</p> <p>agree that the Assignee may apply for and receive a patent or patents from the Application(s) and for said improvements in its own name; and that, to carry out in good faith the intent and purpose of this Assignment, I/we (without charge to, but at the expense of the Assignee) shall: execute the Application(s), and all divisional, continuing, substitute, renewal, reissue and other patent applications based on or claiming priority to the Application(s), or based on any and all of said improvements, and execute all associated assignments and powers of attorney; convey to the Assignee (and its successors, assigns and legal representatives) all known facts relating to the Application(s) said improvements and the history thereof; and generally assist the Assignee (and its successors, assigns and legal representatives) in securing and maintaining proper patent protection for the Application(s) and said improvements, and for vesting title in and to the Application(s), and all applications for patents and all patents on said improvements, in the Assignee (and its successors, assigns and legal representatives); and</p> <p>covenant with the Assignee (and its successors, assigns and legal representatives) that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the Assignor(s), and that full right to convey the same as herein expressed is possessed by the Assignor(s).</p>			
Date:	9/18/2015	Rajeev GOPAL:	
Date:	_____	Channasandra RAVISHANKAR:	_____

PATENT ASSIGNMENT

Assignor(s):	Rajeev GOPAL and Channasandra RAVISHANKAR
Assignee:	Hughes Network Systems, LLC 11717 Exploration Lane, Germantown, Maryland, 20876, USA
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<div style="display: flex; justify-content: space-between;"><div>Date: _____</div><div>Rajeev GOPAL: _____</div></div>	
<div style="display: flex; justify-content: space-between;"><div>Date: <u>September 24, 2015</u></div><div>Channasandra RAVISHANKAR: </div></div>	