504807676 03/07/2018

PATENT ASSIGNMENT COVER SHEET

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NEW ASSIGNMENT

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MURALI REGUNATHAN	02/19/2018
YEZDI ANTIA	02/20/2018
NEAL DAVID BECKER	03/06/2018
STANLEY E KAY	02/22/2018
UDAY R BHASKAR	02/22/2018

RECEIVING PARTY DATA

Name:	ame: HUGHES NETWORK SYSTEMS, LLC	
Street Address: 11717 EXPLORATION LANE		
City:	GERMANTOWN	
State/Country: MARYLAND		
Postal Code: 20876		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15914021

CORRESPONDENCE DATA

Fax Number: (888)703-4446

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: 571-215-2215

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Correspondent Name: JASBIR SINGH - HNS CAPITOL CITY TECHLAW

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ATTORNEY DOCKET NUMBER:	403-0042
NAME OF SUBMITTER:	JASBIR SINGH
SIGNATURE:	/Jasbir Singh/
DATE SIGNED:	03/07/2018

Total Attachments: 5

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PATENT REEL: 045128 FRAME: 0680

EPAS ID: PAT4854408

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Assignor(s):	Murali REGUNATHAN, Yezdi ANTIA, Neal David BECKER; Stanley E. KAY; Uday R. BHASKAR
Assignee:	Hughes Network Systems, LLC 11717 Exploration Lane Germantown, MD 20876
Patent Applic	
Title:	TIMING SYNCHRONIZATION FOR A BEAM HOPPING SATELLITE
	executed by the undersigned concurrently herewith
	Application No(s): Filing Date:
sell, representative (1) the above- disclosed in the applications, to based on or coreissued pater from the Application of the agree improvements I/we (without continuing, so Application (s), of attorney; co to the Application (s) patents and representative covering grant, mortgag others by the Assignor(s).	ant with the Assignee (and its successors, assigns and legal representatives) that no assignment, ge, license, or other agreement affecting the rights and property herein conveyed has been made to e Assignor(s), and that full right to convey the same as herein expressed is possessed by the
Date: <u>1</u>	9FEB 2018 Murali REGUNATHAN:
Date:	Yezdi ANTIA:
Date:	Neal David BECKER:
Date:	Stanley E. KAY:
Date:	Uday R. BHASKAR:

Page 1 of 1

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Assignee:	Hughes Network Systems, LLC		
	11717 Exploration Lane Germantown, MD 20876		
Patent App			
Title:	TIMING SYNCHRONIZATION FOR A BEAM HOPPING SATELLITE		
×	executed by the undersigned concurrently herewith		
	Application No(s): Filing Date:		
	consideration of good and valuable consideration, the receipt of which is hereby acknowledged, I/we, named Assignors, hereby:		
represental (1) the abo disclosed in application based on o reissued pa from the A	, assign and transfer to the above-named Assignee (and its successors, assigns and legal tives) the entire right, title and interest (for the United States and all foreign countries) in and to: ve-identified patent application(s) ("the Application(s)"), including any and all improvements that are the Application(s); and (2) all divisional, continuing, substitute, renewal, reissue and all other patent s, which have been or are subsequently filed in the United States and any and all foreign countries, relaiming priority to the Application(s), or based on any of said improvements; and (3) all original and tents that have been or are subsequently issued in the United States and any and all foreign countries application(s) or based on any of said improvements; and (4) any and all rights of priority arising from the Application(s) in the United States and any and all foreign countries; and		
improveme I/we (witho continuing, Application of attorney, to the App successors, Application patents an representat cov grant, mort	the that the Assignee may apply for and receive a patent or patents from the Application(s) and for said onts in its own name; and that, to carry out in good faith the intent and purpose of this Assignment, but charge to, but at the expense of the Assignee) shall: execute the Application(s), and all divisional, substitute, renewal, reissue and other patent applications based on or claiming priority to the (s), or based on any and all of said improvements, and execute all associated assignments and powers convey to the Assignee (and its successors, assigns and legal representatives) all known facts relating lication(s) said improvements and the history thereof; and generally assist the Assignee (and its assigns and legal representatives) in securing and maintaining proper patent protection for the (s) and said improvements, and for vesting title in and to the Application(s), and all applications for d all patents on said improvements, in the Assignee (and its successors, assigns and legal ives); and enant with the Assignee (and its successors, assigns and legal representatives) that no assignment, gage, license, or other agreement affecting the rights and property herein conveyed has been made to the Assignor(s), and that full right to convey the same as herein expressed is possessed by the		
Date:	Murali REGUNATHAN:		
Date:	2-20-2015 Yezdi ANTIA:		
Date:	Neai David BECKER:		
Date:	Stanley E. KAY:		
Date:	Uday R. BHASKAR:		

Assignor(s):	Murali REGUNATHAN, Yezdi ANTIA, Neal David BECKER; Stanley E. KAY; Uday R. BHASKAR	
Assignee:	Hughes Network Systems, LLC 11717 Exploration Lane Germantown, MD 20876	
Patent Applica	ition(s):	
Title:	TIMING SYNCHRONIZATION FOR A BEAM HOPPING SATELLITE	
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In con the above-nan	sideration of good and valuable consideration, the receipt of which is hereby acknowledged, I/we, ned Assignors, hereby:	
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 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		
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).		
Date:	Murali REGUNATHAN:	
Date:	Yezdi ANTIA:	
Date: <u>3/</u>	6/2018 Neal David BECKER: Mal O. Bosh	
Date:	Stanley E. KAY:	
Date:	Uday R. BHASKAR:	

Page 1 of 1

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in the above-	consideration of good and vi- named Assignors, hereby:	lluable consideration, the receipt of which is hereby acknowledged, I/we,	
disclosed in application based on o reissued pa from the A the filing of agr improvement I/we (with continuing, Application of attorney to the Appsuccessors, Application patents an representate covers of the statement of the st	ove-identified patent application the Application(s); and (2) ins, which have been or are so or claiming priority to the Applications that have been or are application(s) or based on an of the Application(s) in the Uniterest that the Assignee may application its own name; and the out charge to, but at the explaints in its own name; and the out charge to, but at the explaints in its own name; and the out charge to, but at the explaints in its own name; and the out charge to, but at the explaints in its own name; and all control of the Assignee (and olication(s) said improvements, and all patents on said implications); and the Assignee (and olication); and the Assignee (and olication); and the Assigner(s), and that further Assigner(s), and that further Assigner(s), and that further Assigner(s).	and interest (for the United States and all foreign countries) in and to: ion(s) ("the Application(s)"), including any and all improvements that are all divisional, continuing, substitute, renewal, reissue and all other patent absequently filed in the United States and any and all foreign countries, dication(s), or based on any of said improvements; and (3) all original and subsequently issued in the United States and any and all foreign countries of of said improvements; and (4) any and all rights of priority arising from the States and any and all foreign countries; and oly for and receive a patent or patents from the Application(s) and for said at, to carry out in good faith the intent and purpose of this Assignment, and other patent applications based on or claiming priority to the facility said improvements, and execute all associated assignments and powers its successors, assigns and legal representatives) all known facts relating the said improvements, and maintaining proper patent protection for the and for vesting title in and to the Application(s), and all applications for provements, in the Assignee (and its successors, assigns and legal dits successors, assigns and legal representatives) that no assignment, ment affecting the rights and property herein conveyed has been made to all right to convey the same as herein expressed is possessed by the	
Date:		Murali REGUNATHAN:	
Date:	0000000	Yezdi ANTIA:	
Date:		Neal David BECKER:	
Date:	2/22/18	Stanley E. KAY: Stanley E Vol	
Date:		Uday R. BHASKAR:	

Assignor(s):	Murali REGUNATHAN, Yezdi ANTIA, Neal David BECKER; Stanley E. KAY; Uday R. BHASKAR
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In con the above-nan	sideration of good and valuable consideration, the receipt of which is hereby acknowledged, I/we, ned Assignors, hereby:
In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, I/we, the above-named Assignors, hereby: 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 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 and all patents on said improvements, in the Assignee (and its successors, assigns an	
Date:	Murali REGUNATHAN:
Date:	Yezdi ANTIA:
Date:	Neal David BECKER:
Date:	Stanley E. KAY:
Date: 2	22/2018 Uday R. BHASKAR: Uday R. Ehashan
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PATENT REEL: 045128 FRAME: 0686

RECORDED: 03/07/2018