

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4055207

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BRYAN ADRIAN LAUER	09/06/2016
PATRICK J. WALSH	09/08/2016
SARA B. ROSSIO	09/08/2016
RACHEL MORRIS	08/23/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	GOGO LLC
<b>Street Address:</b>	111 NORTH CANAL STREET
<b>Internal Address:</b>	SUITE 1500
<b>City:</b>	CHICAGO
<b>State/Country:</b>	ILLINOIS
<b>Postal Code:</b>	60606
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15264066
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(312)474-0448
<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>	
<b>Phone:</b>	312-474-6300
<b>Email:</b>	docket@marshallip.com
<b>Correspondent Name:</b>	MARSHALL, GERSTEIN & BORUN
<b>Address Line 1:</b>	233 SOUTH WACKER DRIVE
<b>Address Line 2:</b>	SUITE 6300
<b>Address Line 4:</b>	CHICAGO, ILLINOIS 60606
<b>ATTORNEY DOCKET NUMBER:</b>	32045/50126
<b>NAME OF SUBMITTER:</b>	GLORIA CORRO
<b>SIGNATURE:</b>	/Gloria Corro/
<b>DATE SIGNED:</b>	09/16/2016
<b>Total Attachments: 6</b>	

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**ASSIGNMENT**

Serial No: 15/264,066

Filed: September 13, 2016

Title: USAGE-BASED BANDWIDTH OPTIMIZATION

For good and valuable consideration, the receipt and sufficiency of which are hereby agreed, each of the undersigned agrees to assign and hereby assigns to GOGO LLC, 111 North Canal Street, Suite 1500, Chicago, Illinois 60606 and its successors and assigns ("Assignee") the entire right, title, and interest in and to the inventions of such undersigned that are disclosed in the application listed above. Also assigned are (i) all rights in any and all other applications anywhere in the world that the undersigned may file and/or be named as an inventor of, solely or jointly, on said inventions, (ii) all rights in any and all patents that may be obtained on any of said applications, and (iii) all rights in any and all reissues, reexaminations, supplemental examinations, inter partes reviews, oppositions, post-grant reviews, supplementary protection certificates, and/or extensions thereof. The rights assigned include without limitation, the right to bring suit, the right to claim and retain all damages and/or seek other remedies for the past, present, and future infringement of any of the foregoing, and the right of priority (including without limitation the right to claim priority benefit of or to said patent applications.) The undersigned request the Commissioner for Patents in the United States and similar authorities outside the United States to issue said patents to and in the name of Assignee.

Each of the undersigned authorizes the attorneys of record in the application listed above to insert in this assignment the filing date and application number of the application listed above when officially known.

Each of the undersigned states that the application listed above is or was made or authorized to be made by him or her. Each of the undersigned believes himself or herself to be the original inventor or an original joint inventor of a claimed invention in the application listed above. Each of the undersigned acknowledges that any willful false statement made by him or her in this paragraph is punishable under 18 U.S.C. §1001 by fine or imprisonment of not more than five years, or both.

Except in favor of Assignee, each of the undersigned warrants that: (i) he or she is the owner of all its rights, title and interests herein assigned and has the right to make this unconditional and irrevocable assignment to Assignee without obtaining any approval or permission of a third party; and (ii) there are no outstanding encumbrances, liens, prior assignments, licenses, or other obligations or restrictions on the rights, title and interests herein assigned.

Upon the request of Assignee and at no expense to the undersigned, each of the undersigned hereby agrees to execute any and all applications on said inventions (including without limitation applications or requests for the reissue, reexamination, or extension of the patent or for a supplementary protection certificate) and any oath, declaration, or affidavit relating thereto that Assignee may deem necessary or expedient, and to cooperate to the best of the ability of the undersigned with Assignee and perform any and all affirmative acts requested by

Assignee to prepare, file, prosecute, maintain, defend, enforce, and vest in Assignee the rights, title, and interests assigned herein. These acts include, without limitation, preparing and executing statements and giving and producing evidence in support thereof, whereby said rights, title and interests will be held and enjoyed by Assignee to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

On behalf of Assignee,

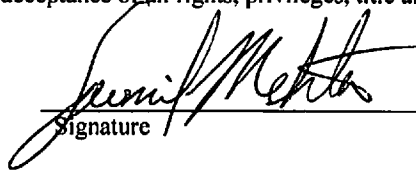
Saumil Mehta

Name

Assistant General Counsel, GOGO LLC

Title

hereby confirms Assignee's acceptance of all rights, privileges, title and interests conveyed by this assignment.

  
Signature

9-9-16  
Date

WITNESS our hands this 6<sup>th</sup> day of September, 2016.

State of Illinois  
County of Cook

Bryan Adrian Lauer  
Bryan Adrian Lauer

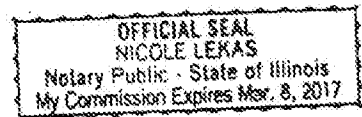
On this 6<sup>th</sup> day of September, 2016, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires:

March 8, 2017

Nicole Lekas  
Notary Public



WITNESS our hands this

8th day of September, 2016

State of Illinois  
County of Cook

Patrick J. Walsh  
Patrick J. Walsh

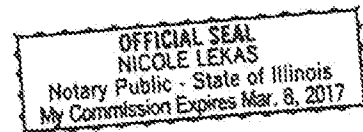
On this 8th day of September, 2016, before me, a  
Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same  
persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said  
instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires:

March 8, 2017

Nicole Lekas  
Notary Public



WITNESS our hands this

8<sup>th</sup> day of September, 2016.

State of Illinois  
County of Cook

Sara B. Rossio  
Sara B. Rossio

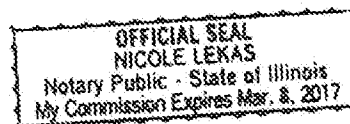
On this 8<sup>th</sup> day of September, 2016, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires:

March 8, 2017

Nicole Lekas  
Notary Public



WITNESS our hands this 23<sup>rd</sup> day of August, 2016.

State of Illinois  
County of COOK

Rachel Morris  
Rachel Morris

On this 23<sup>rd</sup> day of August, 2016, before me, a  
Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same  
persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said  
instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires:

Mar. 8, 2017

Nicole Lekas  
Notary Public

