

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM644168

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|------------------------------|------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | RELEASE OF SECURITY INTEREST |

CONVEYING PARTY DATA

| Name | Formerly | Execution Date | Entity Type |
|---|----------|----------------|--|
| JPMorgan Chase Bank, N.A., as Administrative Agent | | 04/30/2021 | National Banking Association: UNITED STATES |

RECEIVING PARTY DATA

| | |
|------------------------|-------------------------------------|
| Name: | Gogo LLC |
| Street Address: | 111 N. Canal Street |
| City: | Chicago |
| State/Country: | ILLINOIS |
| Postal Code: | 60606 |
| Entity Type: | Limited Liability Company: DELAWARE |
| Name: | Gogo Business Aviation LLC |
| Street Address: | 11001 W 120TH AVENUE, SUITE 310 |
| City: | BROOMFIELD |
| State/Country: | COLORADO |
| Postal Code: | 80021 |
| Entity Type: | Limited Liability Company: DELAWARE |

PROPERTY NUMBERS Total: 16

| Property Type | Number | Word Mark |
|----------------------|---------|-------------|
| Registration Number: | 3680364 | GOGO |
| Registration Number: | 3499843 | GOGO |
| Registration Number: | 4129839 | GOGO |
| Registration Number: | 4133147 | GOGO |
| Registration Number: | 4256786 | GOGO BIZ |
| Registration Number: | 4133220 | GOGO VISION |
| Registration Number: | 3667304 | *-)- |
| Registration Number: | 3600042 | *-)- |
| Registration Number: | 2606315 | AIRCELL |
| Registration Number: | 3473337 | AIRCELL |
| Registration Number: | 1997223 | AIRCELL |
| Registration Number: | 3561842 | AIRCELL |
| Registration Number: | 2641476 | AIRCELL |

TRADEMARK

| Property Type | Number | Word Mark |
|----------------------|----------|--------------------------------------|
| Registration Number: | 3473338 | IN TOUCH, IN FLIGHT |
| Serial Number: | 88418468 | GOGO 5G |
| Serial Number: | 88168673 | FLY SMARTER GOGO BUSINESS AVIATION |

CORRESPONDENCE DATA

Fax Number: 2149813400

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: 214-981-3483

Email: dclark@sidley.com

Correspondent Name: Dusan Clark, Esq.

Address Line 1: Sidley Austin LLP

Address Line 2: 2021 McKinney Ave., Suite 2000

Address Line 4: Dallas, TEXAS 75201

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|--------------------------------|---------------|
| ATTORNEY DOCKET NUMBER: | 36084-30081 |
| NAME OF SUBMITTER: | Dusan Clark |
| SIGNATURE: | /Dusan Clark/ |
| DATE SIGNED: | 05/04/2021 |

Total Attachments: 8

- source=Gogo - Release of IP Collateral [Executed] 267512157_1#page1.tif
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**RELEASE OF SECURITY INTEREST
IN INTELLECTUAL PROPERTY COLLATERAL**

This **RELEASE OF SECURITY INTEREST IN INTELLECTUAL PROPERTY COLLATERAL** (this "Release"), dated as of April 30, 2021, is made by **JPMORGAN CHASE BANK, N.A.**, as Administrative Agent (the "Administrative Agent") under the Credit Agreement referred to below (capitalized terms used in this Release and not otherwise defined herein shall have the meanings set forth in the Credit Agreement) in favor of Gogo LLC, a Delaware limited liability company ("Gogo LLC"), and Gogo Business Aviation LLC, a Delaware limited liability company (together with Gogo LLC, the "Grantors").

WHEREAS, in connection with that certain Credit Agreement, dated as of August 26, 2019 (as amended, restated, supplemented or otherwise modified from time to time, the "Credit Agreement"), among Gogo Intermediate Holdings LLC and Gogo Finance Co., as Borrowers, the Grantors, the other Loan Parties party thereto from time to time, the Lenders party thereto and the Administrative Agent, the Lenders agreed to make loans and extend other financial accommodations to or for the benefit of the Loan Parties;

WHEREAS, the Grantors entered into that certain ABL Collateral Agreement, dated as of August 26, 2019 (as may be amended, restated, supplemented or otherwise modified from time to time, the "Collateral Agreement");

WHEREAS, in connection with the Credit Agreement, the Collateral Agreement and pursuant to those certain agreements described on Annex I attached hereto (collectively, the "IP Security Agreements"), the Grantors granted security interests in the certain intellectual property owned by the Grantors, including those listed on Annex I attached hereto (the "IP Collateral"); and

WHEREAS, most of the IP Security Agreements were recorded in the United States Patent and Trademark Office or the United States Copyright Office, as applicable, on the dates and on the reels/frames or volume/document no., as applicable, set forth on Annex I hereto.

NOW THEREFORE, in consideration of the material covenants and agreements set forth herein and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Administrative Agent hereby terminates the IP Security Agreements and releases, terminates and discharges, without representation, recourse or warranty whatsoever, all of its rights in, to and under, including its Lien on and security interest in, and right of setoff against, the IP Collateral, whether granted pursuant to the Collateral Agreement, the IP Security Agreements or any other agreement or document delivered in connection with the Credit Agreement or any other Loan Document, and the Administrative Agent hereby reassigns any and all such right, title and interest (if any) that the Administrative Agent may have in, to and under the IP Collateral to the relevant Grantor.

The Administrative Agent agrees, at the Grantors' expense, to cooperate with the Grantors and to provide the Grantors with the information and additional authorization reasonably required or desirable to effect the release of the Administrative Agent's security interest in the released IP Collateral described herein.

This Release and the rights and obligations of the parties hereto shall be governed by, and construed and interpreted in accordance with, the laws of the State of New York.

[Signature Page Follows]

IN WITNESS WHEREOF, the Administrative Agent has executed this Release as of the date first above written.

JPMORGAN CHASE BANK, N.A.,
as Administrative Agent

By: _____
Name:
Title:

Jerome Prince
Jerome Prince
Authorized Signer

Trademark Security Agreement dated as of August 26, 2019, by Gogo LLC and Gogo Business Aviation LLC in favor of Administrative Agent, was recorded with the United States Patent and Trademark Office on August 27, 2019 at Reel/Frame 6730/0823.

Gogo LLC Trademark Registrations

| Mark | App. Date | App. No. | Reg. Date | Reg. No. | Class/Com. No. |
|---|-------------|----------|-------------|----------|----------------|
| GOGO SG | May 7, 2019 | 88418468 | --- | --- | 9, 38 |
| FLY SMARTER GOGO BUSINESS AVIATION | Oct 25 2018 | 88168673 | --- | --- | 38 |
| GOGO | Jun 26 2007 | 77216179 | Sep 8 2009 | 3680364 | 9 |
| GOGO | Jun 26 2007 | 77216180 | Sep 9 2008 | 3499843 | 38 |
| GOGO (STYLIZED AND/OR WITH DESIGN) | Jun 6 2011 | 85339267 | Apr 17 2012 | 4129839 | 9 |
| GOGO (STYLIZED AND/OR WITH DESIGN) | Jun 6 2011 | 85339274 | Apr 24 2012 | 4133147 | 38 |
| GOGO BIZ | Mar 27 2012 | 85581100 | Dec 11 2012 | 4256786 | 38 |
| GOGO VISION | Jul 13 2011 | 85370757 | Apr 24 2012 | 4133220 | 38 |
| LOGO (EMOTICON) | Oct 19 2007 | 77309056 | Aug 11 2009 | 3667304 | 9 |
| LOGO (EMOTICON) | Oct 19 2007 | 77976486 | Mar 31 2009 | 3600042 | 38 |

Gogo Business Aviation LLC U.S. Trademark Registrations

| Mark | App. Date | App. No. | Reg. Date | Reg. No. | Class/Com. No. |
|-----------------------------|-------------|----------|-------------|----------|----------------|
| AIRCELL | Apr 9 1999 | 75679720 | Aug 13 2002 | 2606315 | 9 |
| AIRCELL | May 8 2007 | 77175183 | Jul 22 2008 | 3473337 | 9 |
| AIRCELL | Feb 18 1992 | 74246637 | Aug 27 1996 | 1997223 | 38 |
| AIRCELL | May 8 2007 | 77175204 | Jan 13 2009 | 3561842 | 38 |
| AIRCELL & DESIGN | Apr 9 1999 | 75679536 | Oct 29 2002 | 2641476 | 9,38 |
| IN TOUCH, IN FLIGHT | May 8 2007 | 77175201 | Jul 22 2008 | 3473338 | 9 |

Patent Security Agreement dated as of August 26, 2019, by Gogo LLC in favor of Administrative Agent, was recorded with the United States Patent and Trademark Office on August 27, 2019 at Reel/Frame 50193/0797.

ISSUED PATENTS

| Title | App. No. | Filed | Patent No. | Issue Date |
|--|-----------------|--------------|-------------------|-------------------|
| MULTIPLE ANTENNA SYSTEM AND METHOD FOR MOBILE PLATFORMS | 15/412,666 | 1/23/2017 | 10,297,908 | 5/21/19 |
| SYSTEMS AND METHODS FOR AVERTING UNSANCTIONED ACCESS TO ON-BOARD VEHICLE NETWORKS | 15/170,649 | 6/1/2016 | 10,298,692 | 5/21/19 |
| In-Vehicle Content Delivery System Operable in Autonomous Mode and Non-Autonomous Mode | 15/222,219 | 7/28/2016 | 10,235,503 | 3/19/2019 |
| DYNAMIC EFFECTIVE RADIATED POWER (ERP) ADJUSTMENT | 15/251,078 | 8/30/2016 | 10,211,530 | 2/19/2019 |
| DATA DELIVERY TO DEVICES ON VEHICLES USING MULTIPLE FORWARD LINKS | 15/945,545 | 4/4/2018 | 10,205,509 | 2/12/2019 |
| SERVICING CELL SELECTION IN AIR TO GROUND COMMUNICATION SYSTEMS | 16/033,789 | 7/12/2018 | 10,200,112 | 2/5/2019 |
| SYSTEM FOR MANAGING MOBILE INTERNET PROTOCOL ADDRESSES IN AN AIRBORNE WIRELESS CELLULAR NETWORK | 15/717,662 | 9/27/2017 | 10,200,111 | 2/5/2019 |
| Seamless Delivery of Real-Time Media Stream With Intermittent Signal Loss | 15/278,385 | 9/28/2016 | 10,200,424 | 2/5/2019 |
| DYNAMIC SATELLITE BEAM SWITCHING | 15/844,020 | 12/15/2017 | 10,158,420 | 12/18/2018 |
| MULTI-CARRIER POWER POOLING | 15/452,402 | 3/7/2017 | 10,159,050 | 12/18/2018 |
| PRESENCE-BASED NETWORK AUTHENTICATION | 15/090,026 | 4/4/2016 | 10,148,759 | 12/4/2018 |
| GROUND SYSTEM FOR VEHICLE DATA DISTRIBUTION | 15/853,106 | 12/22/2017 | 10,129,133 | 11/13/2018 |
| DATA CACHING USING MULTICAST GROUPS IN A VEHICLE COMMUNICATION SYSTEM | 15/703,523 | 9/13/2017 | 10,097,491 | 10/9/2018 |
| SYSTEMS AND METHODS FOR FACILITATING PREDICTIVE NOISE MITIGATION | 15/642,544 | 7/6/2017 | 10,084,493 | 9/25/2018 |
| SYSTEMS AND METHODS FOR ON-BOARD ACCESS CONTROL | 15/092,844 | 4/7/2016 | 10,079,757 | 9/18/2018 |
| SERVICING CELL SELECTION IN AIR TO GROUND COMMUNICATION SYSTEMS | 15/900,282 | 2/20/2018 | 10,044,433 | 8/7/2018 |
| MULTI-CARRIER POWER POOLING | 15/900,119 | 2/20/2018 | 10,034,250 | 7/24/2018 |
| HYPER-NUMBER PORTABILITY | 15/202,727 | 7/6/2016 | 10,028,244 | 7/17/2018 |
| MULTIPLE MODEM COMMUNICATION SYSTEM AND METHOD FOR A MOBILE PLATFORM | 15/223,511 | 7/29/2016 | 10,014,930 | 7/3/2018 |
| DATA DELIVERY TO DEVICES ON VEHICLES USING MULTIPLE FORWARD LINKS | 15/459,709 | 3/15/2017 | 9,973,262 | 5/15/2018 |
| COMMUNICATION SYSTEM AND METHOD FOR NODES ASSOCIATED WITH A VEHICLE | 14/754,046 | 6/29/2015 | 9,971,889 | 5/15/2018 |
| FACILITATING COMMUNICATION BETWEEN ON-BOARD ELECTRONIC DEVICES AND TERRESTRIAL DEVICE | 14/312,413 | 6/23/2014 | 9,967,020 | 5/8/2018 |
| SYSTEMS AND METHODS FOR FACILITATING COMMUNICATIONS DESTINED FOR A NON-TERRESTRIAL NETWORK | 15/079,953 | 3/24/2016 | 9,960,835 | 5/1/2018 |
| Servicing Cell Selection in Air to Ground Communication Systems | 15/352,255 | 11/15/2016 | 9,954,600 | 4/24/2018 |
| OPTIMIZING USAGE OF MODEMS FOR DATA DELIVERY TO DEVICES ON VEHICLES | 15/075,032 | 3/18/2016 | 9,900,823 | 2/20/2018 |
| GROUND SYSTEM FOR VEHICLE DATA DISTRIBUTION | 14/797,461 | 7/13/2015 | 9,893,976 | 2/13/2018 |
| SYSTEMS AND METHODS FOR CONFIGURING AN ELECTRONIC DEVICE FOR CELLULAR-BASED COMMUNICATIONS | 15/261,381 | 9/9/2016 | 9,888,373 | 2/6/2018 |
| SYSTEM FOR PROVIDING TEMPORARY INTERNET ACCESS FROM A RESTRICTED LOCAL AREA NETWORK ENVIRONMENT | 13/588,903 | 8/17/2012 | 9,825,910 | 11/21/2017 |
| System for Managing Mobile Internet Protocol Addresses in an Airborne Wireless Cellular Network | 14/340,921 | 7/25/2014 | 9,813,144 | 11/7/2017 |
| DYNAMIC TIME BASED PRODUCT | 14/995,459 | 1/14/2016 | 9,794,815 | 10/17/2017 |
| DATA CACHING IN A HYBRID COMMUNICATIONS SYSTEM | 14/309,342 | 6/19/2014 | 9,787,619 | 10/10/2017 |
| SYSTEMS AND METHODS FOR FACILITATING COMMUNICATIONS DESTINED FOR A NON-TERRESTRIAL NETWORK | 14/292,035 | 5/30/2014 | 9,716,542 | 7/25/2017 |
| SYSTEMS AND METHODS FOR NOTIFYING ELECTRONIC DEVICES OF VOICE-BASED COMMUNICATION REQUESTS | 14/267,400 | 5/1/2014 | 9,712,668 | 7/18/2017 |
| SYSTEMS AND METHODS FOR COMMUNICATING WITH NON-TERRESTRIAL ELECTRONIC DEVICES | 14/291,979 | 5/30/2014 | 9,655,073 | 5/16/2017 |

| File | App. No. | Filed | Patent No. | Issue Date |
|---|------------|------------|------------|------------|
| SYSTEMS AND METHODS FOR FACILITATING VOICE-BASED COMMUNICATIONS | 14/267,563 | 5/1/2014 | 9,648,468 | 5/9/2017 |
| DATA DELIVERY TO DEVICES ON VEHICLES USING MULTIPLE FORWARD LINKS | 14/876,542 | 10/6/2015 | 9,634,753 | 4/25/2017 |
| RADOME HAVING LOCALIZED AREAS OF REDUCED RADIO SIGNAL ATTENUATION | 14/209,698 | 3/13/2014 | 9,608,321 | 3/28/2017 |
| HYBRID COMMUNICATIONS FOR DEVICES ON VEHICLES | 15/150,576 | 5/10/2016 | 9,591,462 | 3/7/2017 |
| CONTENT INTEGRITY CHECKS | 14/520,970 | 7/1/2014 | 9,591,077 | 3/7/2017 |
| RESUMPTION OF PLAY FOR A CONTENT-DELIVERY SESSION | 14/530,423 | 10/31/2014 | 9,578,104 | 2/21/2017 |
| ADAPTIVE MODULATION IN A HYBRID VEHICLE COMMUNICATION SYSTEM | 14/224,859 | 3/25/2014 | 9,577,857 | 2/21/2017 |
| RADOME HAVING LOCALIZED AREAS OF REDUCED RADIO SIGNAL ATTENUATION | 14/209,713 | 3/13/2014 | 9,564,681 | 2/7/2017 |
| MULTIPLE ANTENNA SYSTEM AND METHOD FOR MOBILE PLATFORMS | 14/177,863 | 2/11/2014 | 9,553,657 | 1/24/2017 |
| SYSTEMS AND METHODS FOR FACILITATING COMMUNICATIONS ORIGINATING FROM A NON-TERRESTRIAL NETWORK | 14/291,878 | 5/30/2014 | 9,503,956 | 11/22/2016 |
| FEATURE TRANSPARENCY FOR WIRELESS DEVICES | 14/912,834 | 2/18/2016 | 9,490,892 | 11/8/2016 |
| SYSTEMS AND METHODS FOR CONFIGURING AN ELECTRONIC DEVICE FOR CELLULAR-BASED COMMUNICATIONS | 14/291,511 | 5/30/2014 | 9,467,828 | 10/11/2016 |
| Autonomous-Mode Content Delivery and Key Management | 14/530,409 | 10/31/2014 | 9,426,650 | 8/23/2016 |
| MULTIPLE MODEM COMMUNICATION SYSTEM AND METHOD FOR A MOBILE PLATFORM | 14/307,228 | 6/17/2014 | 9,408,129 | 8/2/2016 |
| DELAYED DISK RECOVERY | 14/320,966 | 7/1/2014 | 9,384,081 | 7/5/2016 |
| HYBRID COMMUNICATIONS FOR DEVICES ON VEHICLES | 14/225,017 | 3/25/2014 | 9,369,991 | 6/14/2016 |
| OPTIMIZING USAGE OF MODEMS FOR DATA DELIVERY TO DEVICES ON VEHICLES | 14/225,077 | 3/25/2014 | 9,326,217 | 4/26/2016 |
| MESH NETWORK BASED AUTOMATED UPLOAD OF CONTENT TO AIRCRAFT | 14/553,641 | 11/25/2014 | 9,287,999 | 3/15/2016 |
| DYNAMIC TIME BASED PRODUCTS | 14/291,562 | 5/30/2014 | 9,258,432 | 2/9/2016 |
| SYSTEMS AND METHODS FOR TWO-PART ELECTRONIC DEVICE REGISTRATION | 14/291,558 | 5/30/2014 | 9,232,546 | 1/5/2016 |
| DATA DELIVERY TO DEVICES ON VEHICLES USING MULTIPLE FORWARD LINKS | 14/225,050 | 3/25/2014 | 9,197,314 | 11/24/2015 |
| DETERMINING HUMAN STIMULI AT COMPUTING DEVICES | 13/781,841 | 3/1/2013 | 9,147,065 | 9/29/2015 |
| Communication System and Method for Nodes Associated with a Vehicle | 13/675,194 | 11/13/2012 | 9,087,193 | 7/21/2015 |
| GROUND SYSTEM FOR VEHICLE DATA DISTRIBUTION | 13/675,190 | 11/13/2012 | 9,088,613 | 7/21/2015 |
| LINE REPLACEABLE UNIT WITH UNIVERSAL HEAT SINK RECEPTACLE | 13/799,869 | 3/13/2013 | 8,982,562 | 3/17/2015 |
| MESH NETWORK BASED AUTOMATED UPLOAD OF CONTENT TO AIRCRAFT | 13/544,742 | 7/9/2012 | 8,934,893 | 1/13/2015 |
| SYSTEM FOR PROVIDING HIGH SPEED COMMUNICATIONS SERVICE IN AN AIRBORNE WIRELESS CELLULAR NETWORK | 12/137,995 | 6/12/2008 | 8,914,022 | 12/16/2014 |
| SYSTEM FOR TRANSMITTING WIRELESS HIGH-SPEED DATA SIGNALS BETWEEN A TERRESTRIAL-BASED ANTENNA AND AN AIRCRAFT | 13/222,722 | 8/31/2011 | 8,700,032 | 4/15/2014 |
| TRAFFIC SCHEDULING SYSTEM FOR WIRELESS COMMUNICATIONS | 13/009,579 | 1/19/2011 | 8,457,627 | 6/4/2013 |
| DIFFERENTIATED SERVICES CODE POINT MIRRORING FOR WIRELESS COMMUNICATIONS | 13/009,687 | 1/19/2011 | 8,452,276 | 5/28/2013 |
| MULTI-LINK AIRCRAFT CELLULAR SYSTEM FOR SIMULTANEOUS COMMUNICATION WITH MULTIPLE TERRESTRIAL CELL SITES | 11/590,379 | 10/31/2006 | 8,447,292 | 5/21/2013 |
| SPECTRUM SHARING BETWEEN AN AIRCRAFT-BASED AIR-TO-GROUND COMMUNICATION SYSTEM AND EXISTING GEOSTATIONARY SATELLITE SERVICES | 13/172,539 | 6/29/2011 | 8,442,519 | 5/14/2013 |
| SYSTEM FOR MANAGING VOICE OVER INTERNET PROTOCOL COMMUNICATIONS IN A NETWORK | 12/029,298 | 2/11/2008 | 8,185,040 | 5/22/2012 |
| AIR-TO-GROUND CELLULAR COMMUNICATION NETWORK TERRESTRIAL BASE STATION HAVING MULTI-DIMENSIONAL SECTORS WITH ALTERNATING RADIO FREQUENCY POLARIZATIONS | 11/590,146 | 10/31/2006 | 8,145,208 | 3/27/2012 |
| CABIN TELECOMMUNICATION UNIT | 12/707,070 | 2/17/2010 | 8,140,732 | 3/20/2012 |
| SYSTEM FOR CREATING AN AIRCRAFT-BASED INTERNET PROTOCOL SUBNET IN AN AIRBORNE WIRELESS CELLULAR NETWORK | 12/060,674 | 4/1/2008 | 8,081,968 | 12/20/2011 |
| SYSTEM FOR CREATING AN AIRCRAFT-BASED | 12/060,662 | 4/1/2008 | 8,081,969 | 12/20/2011 |

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|---|------------|------------|-----------|------------|
| INTERNET PROTOCOL SUBNET IN AN AIRBORNE WIRELESS CELLULAR NETWORK | | | | |
| SYSTEM FOR CUSTOMIZING ELECTRONIC CONTENT FOR DELIVERY TO A PASSENGER IN AN AIRBORNE WIRELESS CELLULAR NETWORK | 12/021,125 | 1/28/2008 | 8,078,163 | 12/13/2011 |
| SIP CLIENT-BASED LOCAL NUMBER PORTABILITY THROUGH AN AIRCRAFT AIR-TO-GROUND LINK | 12/423,555 | 4/14/2009 | 8,073,443 | 12/6/2011 |
| SYSTEM FOR CUSTOMIZING ELECTRONIC SERVICES FOR DELIVERY TO A PASSENGER IN AN AIRBORNE WIRELESS CELLULAR NETWORK | 12/021,169 | 1/28/2008 | 8,068,829 | 11/29/2011 |
| SYSTEM FOR MANAGING AN AIRCRAFT- ORIENTED EMERGENCY SERVICES CALL IN AN AIRBORNE WIRELESS CELLULAR NETWORK | 12/182,834 | 7/30/2008 | 8,060,083 | 11/15/2011 |
| SYSTEM FOR TRANSMITTING WIRELESS HIGH-SPEED DATA SIGNALS BETWEEN A TERRESTRIAL-BASED ANTENNA AND AN AIRCRAFT | 10/378,203 | 3/3/2003 | 8,032,135 | 10/4/2011 |
| SYSTEM FOR MANAGING THE MULTIPLE AIR-TO-GROUND COMMUNICATIONS LINKS ORIGINATING FROM EACH AIRCRAFT IN AN AIR-TO-GROUND CELLULAR COMMUNICATION NETWORK | 11/590,709 | 10/31/2006 | 7,920,860 | 4/5/2011 |
| SYSTEM FOR HANDOFF OF AIRCRAFT-BASED CONTENT DELIVERY TO ENABLE PASSENGERS TO RECEIVE THE REMAINDER OF A SELECTED CONTENT FROM A TERRESTRIAL LOCATION | 12/021,133 | 1/28/2008 | 7,702,328 | 4/20/2010 |
| CABIN TELECOMMUNICATION UNIT | 10/241,723 | 9/11/2002 | 7,689,752 | 3/30/2010 |
| AIR-TO-GROUND CELLULAR NETWORK FOR DECK-TO-DECK CALL COVERAGE | 11/240,975 | 9/30/2005 | 7,640,016 | 12/29/2009 |
| METHOD AND APPARATUS FOR COMMUNICATION WITH A MOBILE UNIT | 08/988,457 | 12/10/1997 | 6,799,037 | 9/28/2004 |

PENDING PATENTS

| Title | App. No. | Filed | Publ. No. | Issue Date |
|--|------------|------------|-----------|------------|
| WIRELESS CABIN SEATBACK SCREEN LOCATION DETERMINATION | 16/454,522 | 6/27/2019 | | |
| MULTI-CARRIER POWER POOLING | 16/440,028 | 6/13/2019 | | |
| SYSTEMS AND METHODS FOR DELIVERING COMMUNICATIONS VIA UNICAST AND MULTICAST PATHS SIMULTANEOUSLY | 62/843,079 | 5/3/2019 | | |
| SYSTEMS AND METHODS FOR AVERTING UNSANCTIONED ACCESS TO ON-BOARD VEHICLE NETWORKS | 16/374,359 | 4/3/2019 | -- | -- |
| MULTIPLE ANTENNA SYSTEM AND METHOD FOR MOBILE PLATFORMS | 16/372,043 | 4/1/2019 | -- | -- |
| DUAL FIDELITY CONNECTIVITY ON-BOARD A VEHICLE | 16/364,295 | 3/26/2019 | -- | -- |
| AIR-TO-GROUND CO-CHANNEL INTERFERENCE AVOIDANCE SYSTEM | 16/355,071 | 3/15/2019 | -- | -- |
| MULTI-CONSTELLATION SATELLITE TERMINAL | 16/272,458 | 2/11/2019 | -- | -- |
| SYSTEMS AND METHODS FOR DETECTING SATELLITE-BASED COMMUNICATION INTERFERENCE | 16/263,814 | 1/31/2019 | -- | -- |
| IN-VEHICLE CONTENT DELIVERY SYSTEM OPERABLE IN AUTONOMOUS MODE AND NON-AUTONOMOUS MODE | 16/257,972 | 1/25/2019 | -- | -- |
| PASSENGER LOCATION PLATFORM | 16/200,920 | 11/27/2018 | -- | -- |
| ON-BOARD SELF-HEALING NETWORK FOR DELIVERY OF VEHICLE PASSENGER-CONSUMABLE CONTENT | 16/053,374 | 8/2/2018 | -- | -- |
| DYNAMIC LOAD BALANCING OF SATELLITE BEAMS | 15/844,055 | 12/15/2017 | -- | -- |
| MOBILE TELE-COMPUTER NETWORK FOR MOTION PICTURE, TELEVISION AND TV ADVERTISING PRODUCTION | 90/012,810 | 3/20/2013 | -- | -- |
| DYNAMIC EFFECTIVE RADIATED POWER (ERP) ADJUSTMENT | 16/194,741 | 11/19/2018 | -- | -- |
| PRESENCE-BASED NETWORK AUTHENTICATION | 16/175,291 | 10/30/2018 | -- | -- |
| SYSTEMS AND METHODS FOR FACILITATING PREDICTIVE NOISE MITIGATION | 16/139,544 | 9/24/2018 | -- | -- |
| Multiple Modem Communication System and Method for a Mobile Platform | 15/965,245 | 4/27/2018 | -- | -- |
| COMMUNICATION SYSTEM AND METHOD FOR NODES ASSOCIATED WITH A VEHICLE | 15/939,752 | 3/29/2018 | -- | -- |
| MESH NETWORK BASED AUTOMATED UPLOAD OF CONTENT TO AIRCRAFT | 15/873,179 | 1/17/2018 | -- | -- |

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| OPPORTUNISTIC BALANCING IN MULTIPLE LINKS | 15/675,381 | 8/11/2017 | -- | -- |
| Optimized Wireless Content Loading Scheduler | 15/622,409 | 6/14/2017 | -- | -- |
| RADOME HAVING LOCALIZED AREAS OF REDUCED RADIO SIGNAL ATTENUATION | 15/468,808 | 3/24/2017 | -- | -- |
| MULTIPLE ANTENNA SYSTEM AND METHOD FOR MOBILE PLATFORMS | 15/382,227 | 12/16/2016 | -- | -- |
| USAGE-BASED BANDWIDTH OPTIMIZATION | 15/264,066 | 9/13/2016 | -- | -- |
| USER DIRECTED BANDWIDTH OPTIMIZATION | 15/263,921 | 9/13/2016 | -- | -- |
| USAGE-BASED BANDWIDTH OPTIMIZATION | 15/264,193 | 9/13/2016 | -- | -- |
| SYSTEMS AND METHODS FOR AUTHENTICATING APPLICATIONS TO ON-BOARD SERVICES | 15/092,884 | 4/7/2016 | -- | -- |
| DYNAMIC SATELLITE BEAM SWITCHING | 16/195,248 | 11/19/2018 | -- | -- |
| MULTI-CARRIER POWER POOLING | 16/193,937 | 11/16/2018 | -- | -- |
| Wireless Cabin Seatback Screen Location Determination | 15/659,042 | 7/25/2017 | -- | -- |
| AIR-TO-GROUND CO-CHANNEL INTERFERENCE AVOIDANCE SYSTEM | 15/228,209 | 8/4/2016 | -- | -- |
| VEHICLE DATA DISTRIBUTION SYSTEM AND METHOD | 13/675,200 | 11/13/2012 | -- | -- |

Copyright Security Agreement dated as of August 26, 2019, by Gogo LLC in favor of Administrative Agent, was recorded with the United States Copyright Office on September 4, 2019 at Volume 9966 Doc. Number 346.

COPYRIGHT REGISTRATIONS

| Mark | Author | Reg. Date | Reg. No. |
|-----------------------------|---------------|-------------------|-----------------|
| Aircell cloud design | Gogo LLC | December 13, 2012 | VA0001853407 |
| Gogo cloud design. | Gogo LLC | December 13, 2012 | VA0001853402 |

Trademark Security Agreement dated as of April 22, 2020, by Gogo LLC in favor of Administrative Agent, was recorded with the United States Patent and Trademark Office on April 23, 2020 at Reel/Frame 6921/0818.

Gogo LLC Trademark Registrations

| Mark | App. No. | App. Date | Reg. No. | Reg. Date | Status |
|-------------|-----------------|------------------|-----------------|------------------|---------------|
| GOGO MIX | 88649886 | 10/10/2019 | | | Published |

Patent Security Agreement dated as of April 22, 2020, by Gogo LLC in favor of Administrative Agent, was recorded with the United States Patent and Trademark Office on April 23, 2020 at Reel/Frame 52476/0926.

| Title | App. No. | Filed | Patent No. | Issue Date | Status |
|--|------------|------------|------------|------------|-----------|
| DYNAMIC SATELLITE BEAM SWITCHING | 16/537,890 | 8/12/2019 | 10,574,340 | 2/25/2020 | Issued |
| SYSTEMS AND METHODS FOR DETECTING SATELLITE-BASED COMMUNICATION INTERFERENCE | 16/804,647 | 2/28/2020 | -- | -- | Pending |
| SYSTEMS AND METHODS FOR ACCESSING AN AIR-TO-GROUND NETWORK | 16/799,374 | 2/24/2020 | -- | -- | Pending |
| METHODS AND APPARATUS TO DECREASE DOMAIN NAME SYSTEM (DNS) LOOKUP TIMES FOR AIRBORNE CLIENTS | 62/970,443 | 2/5/2020 | -- | -- | Pending |
| MULTI-CONSTELLATION SATELLITE TERMINAL | 16/751,442 | 1/24/2020 | -- | -- | Pending |
| DYNAMIC SATELLITE BEAM SWITCHING | 16/746,015 | 1/17/2020 | -- | -- | Pending |
| USER DIRECTED BANDWIDTH OPTIMIZATION | 16/693,965 | 11/25/2019 | -- | -- | Pending |
| CAPTIVE PORTAL POP UP SUPPRESSION | 16/656,932 | 10/18/2019 | -- | -- | Pending |
| AN ANTENNA EMBEDDED IN A RADOME OF AN AIRCRAFT | 62/913,539 | 10/10/2019 | -- | -- | Pending |
| MESH NETWORK BASED AUTOMATED UPLOAD OF CONTENT TO AIRCRAFT | 16/665,905 | 10/28/2019 | -- | -- | Published |
| MULTIPLE MODEM COMMUNICATION SYSTEM AND METHOD FOR A MOBILE PLATFORM | 16/585,508 | 9/27/2019 | -- | -- | Published |
| VEHICLE DATA DISTRIBUTION SYSTEM AND METHOD | 16/538,013 | 8/12/2019 | -- | -- | Published |
| SYSTEMS AND METHODS FOR FACILITATING PREDICTIVE NOISE MITIGATION | 16/665,450 | 10/28/2019 | -- | -- | Allowed |
| MULTI-CARRIER POWER POOLING | 16/814,672 | 3/10/2020 | -- | -- | Pending |
| DYNAMIC LOAD BALANCING OF SATELLITE BEAMS | 16/814,628 | 3/10/2020 | -- | -- | Pending |

The following agreements were not filed with the United States Patent and Trademark Office or United States Copyright Office, but are listed for completeness:

Trademark Security Agreement dated as of March 9, 2021, by Gogo Business Aviation LLC in favor of Administrative Agent.

Patent Security Agreement dated as of March 9, 2021, by Gogo Business Aviation LLC in favor of Administrative Agent.

Copyright Security Agreement dated as of March 9, 2021, by Gogo Business Aviation LLC in favor of Administrative Agent.