

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7050165

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
LOON LLC	09/01/2021
RECEIVING PARTY DATA	
Name:	GOOGLE LLC
Street Address:	1600 AMPHITHEATRE PARKWAY
City:	MOUNTAIN VIEW
State/Country:	CALIFORNIA
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17527319
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>	
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ATTORNEY DOCKET NUMBER:	LOON 3.0F-2237 CON [9310]
NAME OF SUBMITTER:	IDA ZAZZALI
SIGNATURE:	/Ida Zazzali/
DATE SIGNED:	12/01/2021
Total Attachments: 6	
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Patent Assignment Agreement

This PATENT ASSIGNMENT AGREEMENT (this “**Assignment**”) is made and entered into as of September 1, 2021 (the “**Effective Date**”), by and between Loon LLC, a Delaware Limited Liability Company (“**Assignor**”), and Google LLC, a Delaware Limited Liability Company (“**Assignee**”).

WHEREAS, Assignee and Assignor or its affiliate have entered into that certain Asset Assignment Agreement, dated as of September 1, 2021 (the “**Asset Assignment Agreement**”), pursuant to which Assignor has agreed to sell, assign, and transfer to Assignee, and Assignee has agreed to buy, all of Assignor’s right, title, and interest in and to the Assigned Patents;

NOW, THEREFORE, for good and valuable consideration paid by Assignee to Assignor, the receipt and sufficiency of which are hereby acknowledged, Assignor and Assignee agree as follows:

“**Assigned Patents**” means, any and all patents and patent applications (a) listed on Schedule 1 (“Listed Patents”); (b) to which any of the Listed Patents is or reasonably should be terminally disclaimed or for which any of the foregoing forms a basis for a terminal disclaimer; (c) to which any of the foregoing in (a) and (b) claims or is entitled to claim priority, including any parent application, provisional or other priority document; (d) that are national (of any country of origin), international or multinational counterparts to any of the foregoing in (a) through (c); or (e) that claim priority to or have common priority with any of the foregoing in (a) through (d), including all continuing, divisional and continuation-in-part applications of any of the foregoing; or (f) that issue anywhere in the world from any of the patent applications in any of the foregoing (a) through (e); or (g) that arise out of any corrections, substitutions, reissues, extensions, renewals or re-examinations of any of the foregoing (a) through (f).

Assignor hereby irrevocably sells, assigns, transfers, and conveys to Assignee all right, title, and interest in and to: (a) the Assigned Patents; (b) all inventions, invention disclosures, and discoveries described in any of the Assigned Patents; (c) all rights of priority related to the Assigned Patents and rights to apply in any or all countries of the world for patents claiming any inventions, invention disclosures, and discoveries described in any of the Assigned Patents; and (d) all claims, causes of action (whether known or unknown, accrued or unaccrued, or currently pending, filed, or otherwise), provisional rights, and other enforcement rights under, or on account of, any of the Assigned Patents, including all (i) rights to pursue damages, injunctive relief, and any other remedies of any kind (including based on provisional rights) for past, current, and future infringement, and (ii) rights to collect royalties or other payments under or on account of any of the Assigned Patents.

Assignor also hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents or certificates of invention that may be granted upon any of the Assigned Patents in the name of Assignee, as the assignee to the entire

interest therein.

This Assignment will be binding upon and will inure to the benefit of the parties and their respective successors and assigns.

This Assignment will be governed by, and construed in accordance with, the laws of the United States in respect to patent issues and in all other respects by the laws of the State of California, without reference to its choice of law principles to the contrary.

This Assignment may be executed in counterparts, each of which will be deemed an original, and all of which together constitute one and the same instrument.

[Signatures to Follow]

IN WITNESS WHEREOF, Assignor and Assignee have caused this Assignment to be executed by their respective duly authorized representatives as of the date first set forth above.

Loon LLC (Assignor)

Google LLC (Assignee)

By: Michael Collins

By: Kenneth Yi

Name: Michael Collins

Name: Kenneth H. Yi

Title: Chief Executive Officer

Title: Assistant Secretary

SCHEDULE 1

Assigned Patents

[attached.]

IP Right	Country	Filing Date	Title	Application Number	Status
L-200172-00-PCT	WO	12/29/2016	SYSTEMS AND METHODS FOR ROUTING AND TOPOLOGY MANAGEM	PCT/US2016/069226	Lapsed
L-200172-00-US	US	4/25/2016	SYSTEMS AND METHODS FOR ROUTING AND TOPOLOGY MANAGEM	15/137,747	In Force
L-200172-00-US-CON	US	1/7/2019	SYSTEMS AND METHODS FOR ROUTING AND TOPOLOGY MANAGEM	16/241,351	Allowed
L-200172-00-US-CON2	US	2/24/2021	SYSTEMS AND METHODS FOR ROUTING AND TOPOLOGY MANAGEM	17/183,667	Pending
L-200173-00-US	US	3/16/2016	SYSTEMS AND METHODS FOR IMPROVING TOLERANCE OF DELAY AN	15/071,969	In Force
L-200173-00-US-RE1	US	3/20/2020	SYSTEMS AND METHODS FOR IMPROVING TOLERANCE OF DELAY AN	16/825,402	Pending
L-200173-00-US-RE2	US	3/20/2020	SYSTEMS AND METHODS FOR IMPROVING TOLERANCE OF DELAY AN	16/825,467	Pending
L-50372-00-US	US	7/12/2017	Method and system for delivering content over transient access netw	15/647,811	In Force
L-50372-00-US-CON	US	3/25/2020	Method and System for Delivering Content Over Transient Access Ne	16/829,002	Allowed
L-50422-00-AU	AU	4/25/2018	Temporospatial Software-Defined Networking For Ngso Satellite Net	2018258169	In Force
L-50422-00-AU-DIV	AU	4/25/2018	Temporospatial Software-Defined Networking For Ngso Satellite Net	2020289788	Pending
L-50422-00-CA	CA	4/25/2018	Temporospatial Software-Defined Networking For Ngso Satellite Net	3059957	Pending
L-50422-00-EP	EP	4/25/2018	Temporospatial Software-Defined Networking For Ngso Satellite Net	18790338	Pending
L-50422-00-JP	JP	4/25/2018	Temporospatial Software-Defined Networking For Ngso Satellite Net	2019-556223	Pending
L-50422-00-KR	KR	4/25/2018	Temporospatial Software-Defined Networking For Ngso Satellite Net	10-2019-7031660	In Force
L-50422-00-KR-DIV	KR	4/25/2018	Temporospatial Software-Defined Networking For Ngso Satellite Net	10-2021-7016816	Pending
L-50422-00-SG	SG	4/25/2018	Temporospatial Software-Defined Networking For Ngso Satellite Net	11201909354X	Pending
L-50422-00-US	US	4/26/2017	Temporospatial Software-Defined Networking For Ngso Satellite Net	15/497,738	In Force
L-50422-00-US-CON	US	12/27/2017	Temporospatial Software-Defined Networking For Ngso Satellite Net	15/854,981	In Force
L-50422-00-US-CON2	US	7/3/2019	Temporospatial Software-Defined Networking For Ngso Satellite Net	16/502,448	In Force
L-50422-00-US-CON3	US	9/25/2020	Temporospatial Software-Defined Networking For Ngso Satellite Net	17/031,961	Pending
L-50422-00-WO	WO	4/25/2018	Temporospatial Software-Defined Networking For Ngso Satellite Net	PCT/US2018/029385	Lapsed
L-50422-01-PR	US	5/26/2017	TEMPOROSPATIAL SOFTWARE-DEFINED NETWORKING FOR NGSO SA	62/511,377	Lapsed
L-50422-01-US	US	4/17/2018	TEMPOROSPATIAL SOFTWARE-DEFINED NETWORKING FOR NGSO SA	15/954,922	In Force
L-50422-01-US-CON	US	6/18/2019	TEMPOROSPATIAL SOFTWARE-DEFINED NETWORKING FOR NGSO SA	16/444,620	In Force
L-50422-01-US-CON2	US	11/25/2020	TEMPOROSPATIAL SOFTWARE-DEFINED NETWORKING FOR NGSO SA	17/104,162	Pending
L-50628-00-US	US	12/30/2020	Hybrid SDN and MANET Routing In Mesh Networks	17/138,019	Pending
L-50862-00-AU	AU	3/1/2019	Hybrid LEO/HAPS constellation for fixed broadband	2019231093	In Force
L-50862-00-AU-DIV	AU	3/1/2019	Hybrid LEO/HAPS constellation for fixed broadband	2020294343	Pending
L-50862-00-CA	CA	3/1/2019	Hybrid LEO/HAPS constellation for fixed broadband	3093368	Pending
L-50862-00-EP	EP	3/1/2019	Hybrid LEO/HAPS constellation for fixed broadband	19763740.8	Pending

L-50862-00-US	US	3/9/2018	Hybrid LEO/HAPS constellation for fixed broadband	15/916,646	In Force
L-50862-00-US-CON	US	1/18/2019	Hybrid LEO/HAPS constellation for fixed broadband	16/251,632	In Force
L-50862-00-US-CON2	US	12/17/2019	Hybrid LEO/HAPS constellation for fixed broadband	16/717,519	In Force
L-50862-00-WO	WO	3/1/2019	Hybrid LEO/HAPS constellation for fixed broadband	PCT/US2019/20215	Lapsed
L-50987-00-US	US	12/17/2018	Operation Of Sectorized Communications From Aerospace Platforms	16/222,407	In Force
L-50987-00-US-CON	US	10/4/2019	Operation Of Sectorized Communications From Aerospace Platforms	16/593,536	In Force
L-50987-00-US-CON2	US	11/3/2020	Operation Of Sectorized Communications From Aerospace Platforms	17/087,933	Pending
L-50987-00-WO	WO	12/11/2019	Operation Of Sectorized Communications From Aerospace Platforms	PCT/US2019/65710	Pending
L-52015-00-PR	US	5/16/2019	METHOD AND SYSTEM FOR NON-INTERFERENCE OF MILLIMETER WA	62/848,801	Lapsed
L-52019-00-US	US	9/9/2019	Integrated Access and Backhaul from HAPS	16/565,087	In Force
L-52019-00-US-CON	US	12/15/2020	Integrated Access and Backhaul from HAPS	17/122,104	Pending
L-52019-00-WO	WO	9/2/2020	Integrated Access and Backhaul from HAPS	PCT/US2020/049038	Pending
L-52020-00-PR	US	9/13/2019	METHODS AND SYSTEMS FOR IMPLEMENTING 5G NR USING NON-TE	62/900,090	Lapsed
L-52020-01-PR	US	2/21/2020	HANDOVER COORDINATION FOR LARGE AREA COVERAGE	62/979,544	Pending
L-52020-01-PR2	US	7/15/2020	HANDOVER COORDINATION FOR LARGE AREA COVERAGE	63/052,113	Pending
L-52020-01-US	US	9/11/2020	HANDOVER COORDINATION FOR LARGE AREA COVERAGE	17/018,855	Pending
L-52020-01-WO	WO	9/10/2020	HANDOVER COORDINATION FOR LARGE AREA COVERAGE	PCT/US2020/050215	Pending
L-52020-02-PR	US	2/21/2020	DISTRIBUTED ACCESS AND/OR BACKHAUL FOR NON-TERRESTRIAL NC	62/979,527	Pending
L-52020-02-US	US	9/11/2020	DISTRIBUTED ACCESS AND/OR BACKHAUL FOR NON-TERRESTRIAL NC	17/018,892	Pending
L-52020-02-WO	WO	9/10/2020	DISTRIBUTED ACCESS AND/OR BACKHAUL FOR NON-TERRESTRIAL NC	PCT/US2020/050230	Pending
L-52020-03-US	US	9/11/2020	DYNAMIC SPECTRUM SHARING BETWEEN COVERAGE TYPES	17/018,542	Pending
L-52020-03-WO	WO	9/14/2020	DYNAMIC SPECTRUM SHARING BETWEEN COVERAGE TYPES	PCT/US2020/050667	Pending
L-52020-04-US	US	9/11/2020	USER EQUIPMENT LOCATION DETERMINATION USING DIFFERENT CO	17/018,631	In Force
L-52020-04-US-CON	US	5/19/2021	USER EQUIPMENT LOCATION DETERMINATION USING DIFFERENT CO	17/324,697	Pending
L-52020-04-WO	WO	9/14/2020	USER EQUIPMENT LOCATION DETERMINATION USING DIFFERENT CO	PCT/US2020/050674	Pending
L-52030-00-US	US	12/16/2019	NETWORKING WITH HAPS AND ADDITIONAL GROUND-BASED NODES	16/715,775	Pending
L-52034-00-US	US	1/11/2021	TEMPOROSPATIAL, SOFTWARE-DEFINED MARITIME NETWORK USING	17/146,107	Pending

PATENT

REEL: 058256 FRAME: 0770

RECORDED: 12/01/2021