506964117 11/08/2021

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:NEW ASSIGNMENTNATURE OF CONVEYANCE:ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHARATH ANANTH	12/20/2018
BRIAN BARRITT	12/20/2018
JIN ZHANG	12/20/2018

RECEIVING PARTY DATA

Name:	LOON LLC
Street Address:	1600 AMPHITHEATRE PARKWAY
City:	MOUNTAIN VIEW
State/Country:	CALIFORNIA
Postal Code:	94043

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17520188

CORRESPONDENCE DATA

Fax Number:

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.

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Correspondent Name: BOTOS CHURCHILL IP LAW LLP

Address Line 1: 430 MOUNTAIN AVENUE, SUITE 401

Address Line 4: NEW PROVIDENCE, NEW JERSEY 07974

ATTORNEY DOCKET NUMBER: LOON 3.0F-2150 CCC [9319]

NAME OF SUBMITTER: AVA MARIE FELA

SIGNATURE: /Ava Marie Fela/

DATE SIGNED: 11/08/2021

Total Attachments: 3

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PATENT 506964117 REEL: 058040 FRAME: 0973

Docket Number (Optional)

ASSIGNMENT OF PATENT APPLICATION	LOON 3.0F-2150		
WHEREAS, I, <u>Sharath Ananth</u> of <u>Cupertino, California</u> , have invented or discovered inventions or discoveries, the subject matter of which is described in the patent application entitled "Operation Of Sectorized Communications From Aerospace Platforms Using Reinforcement Learning" (hereafter "Patent Application"),			
X WHEREAS (if the left box is checked), the Patent Application was Trademark Office on December 17, 2018, Application Number 16/222,407			
WHEREAS (if the left box is checked), the Patent Application na (and whereas I hereby authorize Lerner, David, Littenberg, Krumholz & Me No, filed on] the application nur known), and	entlik, LLP, to insert in here in brackets [Application		
WHEREAS, <u>LOON LLC</u> , incorporated or otherwise formed in <u>De Amphitheatre Parkway; Mountain View, CA 94043</u> (hereafter, the "assigne is desirous of memorializing its acquisition further herein, the entire right, the contraction of the contra	ee") is desirous of acquiring, or has acquired and		
NOW, THEREFORE, for good and valuable consideration the reas follows. I agree to assign, and hereby do assign, to the assignee my exassigned Applications in the United States of America and all other countres Patent Application, including any and all inventions, discoveries and other continuation, continuation-in-part, substitute, reissue, re-examination or ot Patent Application pursuant to any law or treaty, and any patent issuing from assign, to assignee the right to claim such priority or benefit. I have not obligation to convey, my rights in the Assigned Applications to a third party Trademark Office, and any other governmental agency in the world, to issuing from the surface of the provision, to execute and deliver documents prepared at assign such as testimony, as may be reasonably required to evidence or protect and assignee may assign or transfer all or part of its rights set forth herein in it affix its signature to this document as well as any other indicia of its acceptance in its unenforceable, the requirements of the provision shall remain to offending portions thereof shall be deemed replaced, to the extent possible purpose of the offending provision.	ntire right, title and interest in and to the ries, where "Assigned Applications" means the subject matter described therein, any divisional, her application claiming priority or benefit to the orn the foregoing. I agree to assign, and hereby it previously conveyed, nor am I aware of an y. I hereby authorize the U.S. Patent and ue to assignee all patents resulting from the signee's reasonable request I agree, without nee's expense and to provide other cooperation, assignee's rights in the Assigned Applications. Is sole discretion. I agree that the assignee may stance of the provisions hereof. If any provision the full extent permissible by law and the		
12/20/2018	Signed by:		
(Date)	(Signature)		

Docket Number (Optional)

ASSIGNMENT OF PATENT APPLICATION LOON 3.0F-2150 WHEREAS, I, Brian Barritt of San Jose, California, have invented or discovered inventions or discoveries, the subject matter of which is described in the patent application entitled "Operation Of Sectorized Communications From Aerospace Platforms Using Reinforcement Learning" (hereafter "Patent Application"), WHEREAS (if the left box is checked), the Patent Application was filed with the U.S. Patent and Trademark Office on December 17, 2018, Application Number 16/222,407, and WHEREAS (if the left box is checked), the Patent Application names the following inventors: (and whereas I hereby authorize Lerner, David, Littenberg, Krumholz & Mentlik, LLP, to insert in here in brackets [Application the application number and filing date of the application when , filed on known), and WHEREAS, LOON LLC, incorporated or otherwise formed in Delaware and having a place of business at 1600 Amphitheatre Parkway; Mountain View, CA 94043 (hereafter, the "assignee") is desirous of acquiring, or has acquired and is desirous of memorializing its acquisition further herein, the entire right, title and interest in same; NOW, THEREFORE, for good and valuable consideration the receipt of which is hereby acknowledged, I agree as follows. I agree to assign, and hereby do assign, to the assignee my entire right, title and interest in and to the Assigned Applications in the United States of America and all other countries, where "Assigned Applications" means the Patent Application, including any and all inventions, discoveries and other subject matter described therein, any divisional, continuation, continuation-in-part, substitute, reissue, re-examination or other application claiming priority or benefit to the Patent Application pursuant to any law or treaty, and any patent issuing from the foregoing. I agree to assign, and hereby do assign, to assignee the right to claim such priority or benefit. I have not previously conveyed, nor am I aware of an obligation to convey, my rights in the Assigned Applications to a third party. I hereby authorize the U.S. Patent and Trademark Office, and any other governmental agency in the world, to issue to assignee all patents resulting from the Assigned Applications and to record assignee's ownership thereof. At assignee's reasonable request I agree, without further remuneration, to execute and deliver documents prepared at assignee's expense and to provide other cooperation, such as testimony, as may be reasonably required to evidence or protect assignee's rights in the Assigned Applications. Assignee may assign or transfer all or part of its rights set forth herein in its sole discretion. I agree that the assignee may affix its signature to this document as well as any other indicia of its acceptance of the provisions hereof. If any provision herein is unenforceable, the requirements of the provision shall remain to the full extent permissible by law and the offending portions thereof shall be deemed replaced, to the extent possible, with a provision most closely reflecting the purpose of the offending provision. 12/20/2018 (Date) (Signature)

RECORDED: 11/08/2021

Docket Number (Optional) ASSIGNMENT OF PATENT APPLICATION LOON 3.0F-2150 WHEREAS, I, Jin Zhang of Mountain View, California, have invented or discovered inventions or discoveries, the subject matter of which is described in the patent application entitled "Operation Of Sectorized Communications From Aerospace Platforms Using Reinforcement Learning" (hereafter "Patent Application"), WHEREAS (if the left box is checked), the Patent Application was filed with the U.S. Patent and Trademark Office on December 17, 2018, Application Number 16/222,407, and WHEREAS (if the left box is checked), the Patent Application names the following inventors: (and whereas I hereby authorize Lerner, David, Littenberg, Krumholz & Mentlik, LLP, to insert in here in brackets [Application _] the application number and filing date of the application when , filed on known), and WHEREAS, LOON LLC, incorporated or otherwise formed in Delaware and having a place of business at 1600 Amphitheatre Parkway; Mountain View, CA 94043 (hereafter, the "assignee") is desirous of acquiring, or has acquired and is desirous of memorializing its acquisition further herein, the entire right, title and interest in same; NOW, THEREFORE, for good and valuable consideration the receipt of which is hereby acknowledged. I agree as follows. I agree to assign, and hereby do assign, to the assignee my entire right, title and interest in and to the Assigned Applications in the United States of America and all other countries, where "Assigned Applications" means the Patent Application, including any and all inventions, discoveries and other subject matter described therein, any divisional, continuation, continuation-in-part, substitute, reissue, re-examination or other application claiming priority or benefit to the Patent Application pursuant to any law or treaty, and any patent issuing from the foregoing. I agree to assign, and hereby do assign, to assignee the right to claim such priority or benefit. I have not previously conveyed, nor am I aware of an obligation to convey, my rights in the Assigned Applications to a third party. I hereby authorize the U.S. Patent and Trademark Office, and any other governmental agency in the world, to issue to assignee all patents resulting from the Assigned Applications and to record assignee's ownership thereof. At assignee's reasonable request I agree, without further remuneration, to execute and deliver documents prepared at assignee's expense and to provide other cooperation, such as testimony, as may be reasonably required to evidence or protect assignee's rights in the Assigned Applications. Assignee may assign or transfer all or part of its rights set forth herein in its sole discretion. I agree that the assignee may affix its signature to this document as well as any other indicia of its acceptance of the provisions hereof. If any provision herein is unenforceable, the requirements of the provision shall remain to the full extent permissible by law and the offending portions thereof shall be deemed replaced, to the extent possible, with a provision most closely reflecting the purpose of the offending provision. 12/20/2018 (Date) (Signature)

PATENT REEL: 058040 FRAME: 0976