PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

EPAS ID: PAT5301298

CONVEYING PARTY DATA

Name	Execution Date
SCOTT SINGER	12/19/2018
LUTFOLLAH MALEKI	12/19/2018
ALEXANDER CHARLES STANDRIDGE	12/19/2018
AYAN CHAKRABARTY	12/19/2018

RECEIVING PARTY DATA

Name:	GM CRUISE HOLDINGS LLC
Street Address:	1201 BRYANT STREET
City:	SAN FRANCISCO
State/Country:	CALIFORNIA
Postal Code:	94103

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16233936

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	P100049-US-02CON/CRSP051A
NAME OF SUBMITTER:	MICHAEL J. MEDLEY
SIGNATURE: /Michael J. Medley/	
DATE SIGNED:	12/27/2018

Total Attachments: 4

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PATENT 505254527 REEL: 047862 FRAME: 0100

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PATENT REEL: 047862 FRAME: 0101

Inventor's Signature Date

Scott Singer

Full name

Docket No: P100049-US-01/CRSP-0051 I, Scott Singer, ("ASSIGNOR") am the original inventor or an original joint inventor of the subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "LIDAR SYSTEM THAT IS CONFIGURED TO COMPUTE RANGES WITH DIFFERING RANGE RESOLUTIONS" ("APPLICATION"), which: will be filed. ASSIGNOR hereby authorizes, and requests, any practitioner associated with Customer No. 156698 to insert here in parentheses (filed on 2018-12-20 and given Application No. 16/227,770 by the following Office USPTO this APPLICATION's Application No., filing date, and Office, when known. was filed on _____ and was given Application No _____ by the following Office "_____". GM Cruise Holdings LLC, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES")). For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE. ASSIGNOR's entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES). ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

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San Gabriel, California Inventor's Residence

Docket No: P100049-US-01/CRSP-0051

of the subject "LIDAR SYS	matter ("INVENTION") disclosed a STEM THAT IS CONFIGURED TO	ne original inventor or an original joint inventor and/or claimed in a patent application entitled COMPUTE RANGES WITH DIFFERING
KANGE KES	SOLUTIONS" ("APPLICATION");	•
	associated with Customer No. 1566 on 2018-12-20 and given A	authorizes, and requests, any practitioner 698 to insert here in parentheses (filed pplication No. 16/227,770 by the) this APPLICATION's ffice, when known.
	was filed on and wathe following Office "	as given Application Noby
("ASSIGNEE and interest, i other applicat	ncluding the right of priority, in the l ions and patents derived therefrom, s or the United States, its territories, an	self and its successors and assigns acquiring, the entire and exclusive rights, title INVENTION and the APPLICATION (and all such as continuing applications, in whole or in ad all foreign countries ("APPLICATION")
ASSIGNOR, ASSIGNOR'S	the ASSIGNOR hereby sells, assign	l interest, including the right of priority, in the
ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).		
1	Males	12/19/8
·	Signature	Date
Lutfollah Full name		Pasadena, California Inventor's Residence

Docket No: P100049-US-01/CRSP-0051

joint inventor application en	ander Charles Standridge, ("AS: of the subject matter ("INVENT titled "LIDAR SYSTEM THAT	ION") disclosed ar IS CONFIGURED	nd/or claimed in a patent O TO COMPUTE RANGES	al
× X	will be filed. ASSIGNOR here associated with Customer No. 1 on2018-12-20 and giver following Office USPTO Application No., filing date, and	by authorizes, and 56698 to insert her Application No.	requests, any practitioner re in parentheses (filed	
	was filed on and the following Office "	l was given Applic	ation No by	
("ASSIGNEE and interest, in other application part, in and for DERIVATIVI For good ASSIGNOR, the ASSIGNOR's	ruise Holdings LLC, on behalf of "), is entitled to, and is desirous of cluding the right of priority, in tons and patents derived therefrom the United States, its territories ES")). od and valuable consideration, the ASSIGNOR hereby sells, assentire and exclusive rights, title and the APPLICATION (and AI	of acquiring, the entering the INVENTION as in, such as continuity, and all foreign continuity and all foreign continuity and all foreign and interest, including and interest, including the including and interest, including and interest, including and interest, including the interest, including and interest, including the interest interest.	ntire and exclusive rights, title and the APPLICATION (and a sing applications, in whole or i untries ("APPLICATION is hereby acknowledged by the to the ASSIGNEE, ding the right of priority, in the	dl n
ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).				
Inventor's	Signature	/ 2_/ [9/2018	_
Alexander Full name	Charles Standridge	Westlake Villa Inventor's Resi		_

Docket No: P100049-US-01/CRSP-0051

inventor of the sub entitled "LIDAR S	oject matter ("INVENTION") SYSTEM THAT IS CONFIGU	n the original inventor or an original joint disclosed and/or claimed in a patent application JRED TO COMPUTE RANGES WITH
wil wil asso on foli	l be filed. ASSIGNOR hereby ociated with Customer No. 15 2018-12-20 and given	ALCATION"), which: y authorizes, and requests, any practitioner 6698 to insert here in parentheses (filed Application No. 16/227,770 by the) this APPLICATION's Office, when known.
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("ASSIGNEE"), is and interest, include other applications part, in and for the DERIVATIVES") For good as ASSIGNOR, the AASSIGNOR's entill INVENTION and ASSIGNOR	entitled to, and is desirous of ling the right of priority, in the and patents derived therefrom United States, its territories, a). Individuable consideration, the SSIGNOR hereby sells, assigne and exclusive rights, title are the APPLICATION (and APPR agrees to execute all instrum	tself and its successors and assigns acquiring, the entire and exclusive rights, title in INVENTION and the APPLICATION (and all a such as continuing applications, in whole or in and all foreign countries ("APPLICATION" receipt of which is hereby acknowledged by the ans and transfers to the ASSIGNEE, and interest, including the right of priority, in the PLICATION DERIVATIVES).
regarding letters pa	APPLICATION (and APPLIC stent derived therefrom, and for ON (and APPLICATION DE	CATION DERIVATIVES), for litigation or the purpose of protecting and perfecting title RIVATIVES).
Ayor C Invertor's Sign	L. M. combon de la combonada d	12 / 19 / 2 01 8 Date
Ayan Chakrab Full name	arty	Glendora, California Inventor's Residence

Page 1 of 1

PATENT REEL: 047862 FRAME: 0105