505651021 09/03/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
THOMAS BACHANT	05/29/2019
NADAV ULLMAN	05/29/2019
JOSEPH THIBEAULT	05/29/2019
JAKE MCCLOSKEY	05/29/2019
PAUL GARCIA	05/29/2016
JOSE ARTURO COVARRUBIAS	05/29/2019
MICHAEL MAGNOLI	05/29/2019

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:	16557580

CORRESPONDENCE DATA

Fax Number: (202)783-3535

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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ATTORNEY DOCKET NUMBER:	102397-631137_P100184US02	
NAME OF SUBMITTER:	NANCE S. PITZER	
SIGNATURE:	/Nance S. Pitzer/	
DATE SIGNED:	09/03/2019	

PATENT 505651021 REEL: 050245 FRAME: 0651

Total Attachments: 7 source=P100184US1_Assignment#page1.tif source=P100184US1_Assignment#page2.tif source=P100184US1_Assignment#page3.tif source=P100184US1_Assignment#page4.tif source=P100184US1_Assignment#page5.tif source=P100184US1_Assignment#page6.tif source=P100184US1_Assignment#page7.tif

Docket No: P100184-US-01_620885

inventor of the	subject matter ("INVENTION") d	the original inventor or an original joint isclosed and/or claimed in a patent application Procedure " ("APPLICATION"), which:
	associated with Customer No. [16 on and given Applic following Office US - United State	authorizes, and requests, any practitioner [1860] to insert here in parentheses (filed eation No
		s given Application No <u>16/410,911</u> by <u>1 States Patent and Trademark Office</u> ".
("ASSIGNEE and interest, in other applications of the control of t	ncluding the right of priority, in the ons and patents derived therefrom, r 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, a	he ASSIGNOR hereby sells, assign	d interest, including the right of priority, in the
prosecution of regarding lette	the APPLICATION (and APPLIC	ents and documents required for the making and ATION DERIVATIVES), for litigation the purpose of protecting and perfecting title RIVATIVES).
Tom Bada	aint	5/29/2019
Inventor's S		Date
Thomas Ba	chant	San Francisco, CA
Full name		Inventor's Residence

Inventor's Signature

Full name

Nadav Ullman

I, Nadav Ullman, ("ASSIGNOR") am the original inventor or an original joint inventor of the subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "Self-Maintaining Autonomous Vehicle Procedure" ("APPLICATION"), which: will be filed. ASSIGNOR hereby authorizes, and requests, any practitioner associated with Customer No. [161860] to insert here in parentheses (filed on ____ and given Application No. ____ by the following Office US - United States Patent and Trademark Office) this APPLICATION's Application No., filing date, and Office, when known. was filed on May 13, 2019 and was given Application No 16/410,911 by the following Office "US - United States Patent and Trademark 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). yd bangiëusog ~ Nadau Ullman 5/29/2019 action and analogous

Date

San Francisco, CA

Inventor's Residence

PATENT REEL: 050245 FRAME: 0654

Docket No: P100184-US-01_620885

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inventor of th	e subject matter ("INVENTION")	the original inventor or an original joint disclosed and/or claimed in a patent application Procedure " ("APPLICATION"), which:
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		as given Application No <u>16/410,911</u> by distates Patent and Trademark Office".
("ASSIGNEE and interest, i other applicat	ncluding the right of priority, in the ions and patents derived therefrom or the United States, its territories, a	tself 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 and all foreign countries ("APPLICATION")
ASSIGNOR'S	the ASSIGNOR hereby sells, assig	receipt of which is hereby acknowledged by the ns and transfers to the ASSIGNEE, and interest, including the right of priority, in the LICATION DERIVATIVES).
prosecution or regarding letter	f the APPLICATION (and APPLIC	tents and documents required for the making and CATION DERIVATIVES), for litigation or the purpose of protecting and perfecting title RIVATIVES).
Joseph H		5/29/2019
Inventor's S	Signature	Date
Joseph Thi	beault	San Francisco, CA
Full name		Inventor's Residence

PATENT ASSIGNMENT Docket No: P100184-US-01_620885

inventor of the	e subject matter ("INVENTION") o	the original inventor or an original joint lisclosed and/or claimed in a patent application Procedure" ("APPLICATION"), which:
	associated with Customer No. [16 on and given Applie following Office US - United Star	authorizes, and requests, any practitioner 1860] to insert here in parentheses (filed cation No by the tes Patent and Trademark Office) this, filing date, and Office, when known.
	. 57777777 T. 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ns given Application No <u>16/410,911</u> by description by by description by description by description of the states Patent and Trademark Office".
("ASSIGNEE and interest, in other applicat	ncluding the right of priority, in the ions and patents derived therefrom, r the United States, its territories, a	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 and all foreign countries ("APPLICATION")
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prosecution of regarding lette	f the APPLICATION (and APPLIC	ents and documents required for the making and ATION DERIVATIVES), for litigation r the purpose of protecting and perfecting title RIVATIVES).
Jake McC		5/29/2019
Inventor's E	ignature	Date
Jake McClo	skey	San Francisco, CA Inventor's Residence

PATENT ASSIGNMENT Docket No: P100184-US-01_620885

the subject ma	atter ("INVENTION") disclosed a	original inventor or an original joint inventor of nd/or claimed in a patent application Procedure" ("APPLICATION"), which:
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\boxtimes	was filed on May 13, 2019 and w the following Office "US – Unit	vas given Application No <u>16/410,911</u> by ed States Patent and Trademark Office".
("ASSIGNEE and interest, is other application."	"), is entitled to, and is desirous of neluding the right of priority, in the ions and patents derived therefrom or the United States, its territories,	itself and its successors and assigns f acquiring, the entire and exclusive rights, title e INVENTION and the APPLICATION (and all n, such as continuing applications, in whole or in and all foreign countries ("APPLICATION
ASSIGNOR, ASSIGNOR's	the ASSIGNOR hereby sells, assign	e receipt of which is hereby acknowledged by the gns and transfers to the ASSIGNEE, and interest, including the right of priority, in the PLICATION DERIVATIVES).
prosecution of regarding letter	f the APPLICATION (and APPLI	ments and documents required for the making and CATION DERIVATIVES), for litigation for the purpose of protecting and perfecting title ERIVATIVES).
DocuSigned by		
Paul Gare		5/29/2019
Inventor's	Signature	Date
Paul Garcia	a	San Francisco, CA
Full name	A THE CONTRACTOR OF THE CONTRA	Inventor's Residence

Docket No: P100184-US-01_620885

inventor of th	<u>e Arturo Covarrubias</u> , ("ASSIGNOR") am the original inventor or an original journel subject matter ("INVENTION") disclosed and/or claimed in a patent application application in the inventor of the inven
	will be filed. ASSIGNOR hereby authorizes, and requests, any practitioner associated with Customer No. [161860] to insert here in parentheses (filed on and given Application No by the following Office US - United States Patent and Trademark Office) this APPLICATION's Application No., filing date, and Office, when known.
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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).

Jose Arturo Covarrubias Reynoso	5/29/2019
Inventor & Signature	Date
Jose Arturo Covarrubias Full name	San Francisco, CA Inventor's Residence

Docket No: P100184-US-01_620885

I, <u>Michael Magnoli</u> , ("ASSIGNOR") am the original inventor or an original joint inventor of the subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled <u>"Self-Maintaining Autonomous Vehicle Procedure"</u> ("APPLICATION"), which:
will be filed. ASSIGNOR hereby authorizes, and requests, any practitioner associated with Customer No. [161860] to insert here in parentheses (filed on and given Application No by the following Office US - United States Patent and Trademark Office) this APPLICATION's Application No., filing date, and Office, when known.
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/ Decusioned by:	
Michael Magnoti	5/29/2019
Inventor's Signature	Date
Michael Magnoli Full name	San Francisco, CA Inventor's Residence

PATENT REEL: 050245 FRAME: 0659

RECORDED: 09/03/2019

DERIVATIVES")).