### 505560104 07/08/2019

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
MICHAEL RUSIGNOLA	07/03/2019
BRIAN DONOHUE	07/08/2019
LUCIO RECH	07/02/2019
STEPHEN WORLOW	07/03/2019
DANIEL BLICK	07/01/2019
VARUN BHARADWAJ	07/03/2019

#### **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:	16457696

#### **CORRESPONDENCE DATA**

**Fax Number:** (713)374-1600

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**Email:** cpaun@polsinelli.com

Correspondent Name: GM CRUISE HOLDINGS LLC C/O POLSINELLI PC

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<b>ATTORNEY DOCKET NUMBER:</b> 102397-626092_P100195US01		
NAME OF SUBMITTER: STEPHANIE MOATS		
SIGNATURE:	/Stephanie Moats/	
<b>DATE SIGNED:</b> 07/08/2019		

**Total Attachments: 6** 

PATENT REEL: 049687 FRAME: 0907

505560104

PATENT REEL: 049687 FRAME: 0908

## PATENT ASSIGNMENT

the subject ma	atter ("INVENTION") disclosed and/or	al inventor or an original joint inventor of claimed in a patent application entitled FLAGS FOR AUTONOMOUS VEHICLE	
	will be filed. ASSIGNOR hereby auth associated with Customer No. [161860 on and given Applicated following Office US - United States Parameters of APPLICATION's Application No., filed	to insert here in parentheses (filed ion No by the atent and Trademark Office) this	
	was filed on June 28, 2019 and was given Application No 16/457,696 by the following Office "U.S. Patent and Trademark Office".		
("ASSIGNEE and interest, in other application	including the right of priority, in the INV tions and patents derived therefrom, such or the United States, its territories, and al	iring, the entire and exclusive rights, title ENTION and the APPLICATION (and all as continuing applications, in whole or in	
ASSIGNOR, 1 ASSIGNOR's	the ASSIGNOR hereby sells, assigns an	erest, including the right of priority, in the	
prosecution of regarding lette	of the APPLICATION (and APPLICATION)	purpose of protecting and perfecting title	
Docusigned by:  Michael Ru  Inventor's S	usianala 7/3/20 Signature Da		
Michael Ru Full name	usignola Bu	dentor's Residence	

## PATENT ASSIGNMENT

I, Brian Donohue, ("ASSIGNOR") am the original inventor or an original joint inventor of the subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PROGRAMMATIC APPLICATION OF ROUTER FLAGS FOR AUTONOMOUS VEHICLE LIMITATIONS" ("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 <u>US - United States Patent and Trademark Office</u> ) this APPLICATION's Application No., filing date, and Office, when known.		
	was filed on <u>June 28, 2019</u> and was given Application No <u>16/457,696</u> by the following Office " <u>U.S. Patent and Trademark Office</u> ".		
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).			
DocuSigned by:	l. 1.0	7/8/2019	
Inventor's 1	Signature	Date	
Brian Dono	phue	San Francisco, CA	
Full name		Inventor's Residence	

# **PATENT ASSIGNMENT** Docket No: 102397-626092 (P100195-US-01)

I, Lucio Rech, ("ASSIGNOR") am the original inventor or an original joint inventor of the subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PROGRAMMATIC APPLICATION OF ROUTER FLAGS FOR AUTONOMOUS VEHICLE LIMITATIONS" ("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 <u>US - United States Patent and Trademark Office</u> ) this APPLICATION's Application No., filing date, and Office, when known.		
	was filed on <u>June 28, 2019</u> and was given Application No <u>16/457,696</u> by the following Office " <u>U.S. Patent and Trademark Office</u> ".		
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).			
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Docusigned by:		7/2/2019	
······ Inventor's 3	Signature	Date	
Lucio Rech	ı	San Francisco, CA	
Full name Inventor's Residence			

## PATENT ASSIGNMENT

f, Stephen Worlow, ("ASSIGNOR") am the original inventor or an original joint inventor of the subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled 'PROGRAMMATIC APPLICATION OF ROUTER FLAGS FOR AUTONOMOUS VEHICLE LIMITATIONS" ("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 June 28, 2019 and was the following Office "U.S. Patent a	s given Application No <u>16/457,696</u> by 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")).			
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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).			
Docusigned by: Steplen W	onow	/3/2019	
Inventor's 3	Signature	Date	
Stephen W	Vorlow	San Francisco, CA	
Full name		Inventor's Residence	

# **PATENT ASSIGNMENT** Docket No: 102397-626092 (P100195-US-01)

I, Daniel Blick, ("ASSIGNOR") am the original inventor or an original joint inventor of the subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PROGRAMMATIC APPLICATION OF ROUTER FLAGS FOR AUTONOMOUS VEHICLE LIMITATIONS" ("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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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).			
—Docusigned by: Daniel Blick	<u>.</u>	7/1/2019	
······9 <b>FppvepHop</b> 2300	Signature	Date	
Daniel Blic	·k	San Francisco, CA	
Full name	Full name Inventor's Residence		

**RECORDED: 07/08/2019** 

## PATENT ASSIGNMENT

subject matter "PROGRAM!	("INVENTION") disclosed and/o	iginal inventor or an original joint inventor of the r claimed in a patent application entitled TER FLAGS FOR AUTONOMOUS VEHICLE	
	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.		
$\boxtimes$	was filed on <u>June 28, 2019</u> and was given Application No <u>16/457,696</u> by the following Office " <u>U.S. Patent and Trademark Office</u> ".		
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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).			
Docusigned by:  Varun Blua  Inventoris S		7/3/2019 Date	
Varun Bha Full name	radwaj	San Francisco, CA Inventor's Residence	

Page 6 of 6

**PATENT** REEL: 049687 FRAME: 0914