505876279 01/22/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ALI TAALIMI	01/21/2020
JAKE OBRON	01/03/2020
SIDDHARTH RAINA	01/05/2020
MATTHIAS WISNIOWSKI	01/21/2020
YUNJING XU	01/03/2020
MENG-TA CHOU	01/21/2020

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:	16730453

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: 102397-637875_P100289US01	
NAME OF SUBMITTER:	BRIAN MCKNIGHT
SIGNATURE:	/Brian McKnight/
DATE SIGNED:	01/22/2020

PATENT 505876279 REEL: 051584 FRAME: 0856

Total Attachments: 6 source=P100289_Assignment_Signed#page1.tif source=P100289_Assignment_Signed#page2.tif source=P100289_Assignment_Signed#page3.tif source=P100289_Assignment_Signed#page4.tif source=P100289_Assignment_Signed#page5.tif

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PATENT REEL: 051584 FRAME: 0857

the subject m	atter ("INVENTION") disclosed a	original inventor or an original joint inventor of and/or claimed in a patent application entitled AR LABELING" ("APPLICATION"), which:
	associated with Customer No. [X (filed on and the following Office	y authorizes, and requests, any practitioner (XXXXX) to insert here in parentheses given Application No by) this fo., filing date, and Office, when known.
		and was given Application No 16/730,453 nited States Patent and Trademark Office".
("ASSIGNEE and interest, i other applicat	2"), is entitled to, and is desirous or 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 o regarding lett	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 b		
ali Taaliv		1/21/2020
Inventor's	Signature	Date
Ali Taalim	i a	San Francisco, CA
Full name		Inventor's Residence

the subject ma	atter ("INVENTION") disclosed a	original inventor or an original joint inventor of and/or claimed in a patent application entitled AR LABELING" ("APPLICATION"), which:
	associated with Customer No. [2] (filed on and the following Office	by authorizes, and requests, any practitioner [XXXXXX] to insert here in parentheses [Siven Application No
		and was given Application No 16/730,453 (nited States Patent and Trademark Office".
("ASSIGNEE and interest, i other applicat part, in and fo DERIVATIV	E"), is entitled to, and is desirous of including the right of priority, in the cions and patents derived therefrom the United States, its territories, ES")).	ritself and its successors and assigns of acquiring, the entire and exclusive rights, title the INVENTION and the APPLICATION (and all m, such as continuing applications, in whole or in and all foreign countries ("APPLICATION") are receipt of which is hereby acknowledged by the igns and transfers to the ASSIGNEE,
ASSIGNOR'		and interest, including the right of priority, in the
prosecution o regarding lett	f the APPLICATION (and APPLI	ments and documents required for the making and ICATION DERIVATIVES), for litigation for the purpose of protecting and perfecting title ERIVATIVES).
Docusigned by		1/3/2020
Inventor's		Date
Jake Obroi	1	San Francisco, CA
Full name		Inventor's Residence

of the subject	matter ("INVENTION") disclosed	the original inventor or an original joint inventor and/or claimed in a patent application entitled R LABELING" ("APPLICATION"), which:	
	associated with Customer No. [X (filed on and go the following Office	y authorizes, and requests, any practitioner XXXXX] to insert here in parentheses given Application No by by this o., filing date, and Office, when known.	
		and was given Application No 16/730,453 nited States Patent and Trademark Office".	
("ASSIGNEE and interest, in other applications.")	"), is entitled to, and is desirous of neluding the right of priority, in the ions and patents derived therefrom r the United States, its territories, a	itself and its successors and assigns acquiring, the entire and exclusive rights, title it INVENTION and the APPLICATION (and all a, such as continuing applications, in whole or in and all foreign countries ("APPLICATION")	
ASSIGNOR, ASSIGNOR'S	the ASSIGNOR hereby sells, assig	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).	
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).			
Siddlart	li Raina	1/5/2020	
Inventor's	Signature	Date	
Siddharth I	Raina	San Francisco, CA	

Inventor's Residence

Full name

inventor of the	e subject matter ("INVENTION	R") am the original inventor or an original joint I") disclosed and/or claimed in a patent application FOR LIDAR LABELING" ("APPLICATION"),	
	associated with Customer No. (filed on and the following Office	eby authorizes, and requests, any practitioner [XXXXXX] to insert here in parentheses and given Application No	
		19 and was given Application No 16/730,453 United States Patent and Trademark Office".	
("ASSIGNEE and interest, in other application	"), is entitled to, and is desirous neluding the right of priority, in ions and patents derived therefront the United States, its territories	of itself and its successors and assigns s of acquiring, the entire and exclusive rights, title the INVENTION and the APPLICATION (and all om, such as continuing applications, in whole or in es, and all foreign countries ("APPLICATION")	
ASSIGNOR, 1 ASSIGNOR's	the ASSIGNOR hereby sells, as sentire and exclusive rights, title	the receipt of which is hereby acknowledged by the ssigns and transfers to the ASSIGNEE, e and interest, including the right of priority, in the APPLICATION DERIVATIVES).	
prosecution of regarding lette	f the APPLICATION (and APP)	ruments and documents required for the making and LICATION DERIVATIVES), for litigation d for the purpose of protecting and perfecting title DERIVATIVES).	
Docusigned b Matthias	oy: Wisniowski	1/21/2020	
Inventor's	signature	Date	
Matthias W	Visniowski	Vienna, Austria	
Full name	Full name Inventor's Residence		

I, <u>Yunjing Xu</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 "POINT CLOUD REGISTRATION FOR LIDAR LABELING" ("APPLICATION"), which:			
	associated with Customer No. [XX (filed on and give the following Office	withorizes, and requests, any practitioner XXXXI to insert here in parentheses wen Application No by this, filing date, and Office, when known.	
	was filed on <u>December 30, 2019</u> and was given Application No <u>16/730,453</u> by the following Office " <u>US - United States 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 Uwying	Xu	1/3/2020	
Inventor's S	Signature	Date	
Yunjing Xu	u	San Francisco, CA	
Full name	Full name Inventor's Residence		

of the subject	g-Ta Chou, ("ASSIGNOR") am the matter ("INVENTION") disclosed a UD REGISTRATION FOR LIDAR	and/or claimed in a patent ap	plication entitled	
	☐ will be filed. ASSIGNOR hereby authorizes, and requests, any practitioner			
	associated with Customer No. [XX (filed on and gi			
	the following Office) this		
	APPLICATION's Application No.	, filing date, and Office, who	en known.	
	was filed on <u>December 30, 2019</u> and was given Application No <u>16/730,453</u> by the following Office "US - United States Patent and Trademark Office".			
("ASSIGNEE and interest, in other applications)	ruise Holdings LLC, on behalf of its "), is entitled to, and is desirous of a neluding the right of priority, in the ions and patents derived therefrom, in the United States, its territories, and ES")).	equiring, the entire and exclusive in the APPL and the APPL such as continuing applications.	usive rights, title ICATION (and all ons, in whole or in	
ASSIGNOR, ASSIGNOR'S	od and valuable consideration, the rathe ASSIGNOR hereby sells, assign entire and exclusive rights, title and and the APPLICATION (and APPLICATION)	s and transfers to the ASSIG I interest, including the right	SNEE, of priority, in the	
prosecution of regarding lette	SNOR agrees to execute all instrume the APPLICATION (and APPLIC ers patent derived therefrom, and for CATION (and APPLICATION DER	ATION DERIVATIVES), for the purpose of protecting an	or litigation	
	7mV	01/21/2020		
Inventor's	ignature	Date		
Meng-Ta C	'hou	Richmond, CA	миринения на менения н	
Full name		Inventor's Residence		

RECORDED: 01/22/2020