506371234 11/24/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6417990

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
UBER TECHNOLOGIES, INC.	11/19/2020

RECEIVING PARTY DATA

Name:	UATC, LLC
Street Address:	1455 MARKET STREET, 4TH FLOOR
City:	SAN FRANCISCO
State/Country:	CALIFORNIA
Postal Code:	94103

PROPERTY NUMBERS Total: 11

Property Type	Number
Application Number:	16173633
Application Number:	16437827
Application Number:	16536925
Application Number:	16366561
Application Number:	62835207
Application Number:	16536895
Application Number:	62824973
Application Number:	16460421
Application Number:	16366543
Application Number:	62840165
Application Number:	16727654

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Fax Number:

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ATTORNEY DOCKET NUMBER: 4872.000003

PATENT REEL: 054461 FRAME: 0341

506371234

NAME OF SUBMITTER:	KASIE GROVER		
SIGNATURE:	/Kasie Grover/		
DATE SIGNED:	11/24/2020		
Total Attachments: 18			
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PATENT ASSIGNMENT

This Patent Assignment (this "Assignment"), dated and effective as of the latest date of the signatures (the "Effective Date"), is entered into by and between Uber Technologies, Inc., a Delaware corporation ("Uber"), and UATC, LLC, a Delaware limited liability company ("UATC"). Uber and UATC are sometimes referred to herein individually as a "Party" and collectively as the "Parties."

WHEREAS, prior to the Effective Date, Uber, certain of Uber's subsidiaries, and UATC entered into that certain Business Asset Contribution Agreement, dated as of June 30, 2019 (the "Contribution Agreement"), pursuant to which, among other things, Uber contributed, transferred and assigned to UATC all of Uber's right, title and interest in and to the patents and patent applications listed on the attached Exhibit A (the "Transferred Patents").

NOW THEREFORE, for good and valuable consideration, the receipt of which is acknowledged, Uber hereby assigns and transfers to UATC all right, title and interest in and to the Transferred Patents owned by the Uber including in and to any and all divisionals, continuations, continuations-in-part, substitutes, reexaminations, renewals, reissues and patents which have or which may be filed thereon or may be granted therefor, including any and all counterparts worldwide, including all right, title and interest in and to all income, royalties, damages and payments now or hereafter due or payable with respect to the Transferred Patents, and all causes of action (whether in law or equity) and the right to sue, counterclaim, and recover for the past, present and future infringement of the Transferred Patents.

Uber agrees that if requested by UATC, without charge to either of them but at the cost and expense of UATC, Uber will perform any reasonable action which may be necessary to secure and to vest in UATC the full and entire right, title and interest in, to and under the Transferred Patents, including promptly communicating and providing any and all known and accessible facts, data or any other pertinent information thereof and promptly executing and delivering any and all papers, documents, forms, declarations, oaths, affidavits and other legal instruments.

Uber authorizes and requests any official of any country or countries, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to UATC, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

UBER TECHNOLOGIES, INC.

By:
Name: Keir Gumbs

Title: Associate General Counsel and

Deputy Corporate Secretary
November 19, 2020

UATC, LLC

By: Your DIF

Name: Keir Gumbs
Title: Manager

November 19, 2020

TITLE	APPLICATION NUMBER	FILING DATE	PATENT NUMBER	ISSUE DATE	COUNTRY
OBJECT DETECTION	2019210587	7/31/2019	2019210587	8/6/2020	AU
BASED ON LIDAR					
INTENSITY					
OBJECT	3,050,586	7/25/2019			CA
DETECTION					
BASED ON LIDAR INTENSITY					
AUTONOMOUS	201910701809.X	7/31/2019			CN
VEHICLE					
COMPUTING					
SYSTEM, LIGHT					
DETECTION AND					
RANGING CALIBRATION					
SYSTEM AND					
METHOD					
THEREOF					
OBJECT	19189423.7	7/31/2019			EP
DETECTION					
BASED ON LIDAR INTENSITY					
AUTONOMOUS	42020015496.1	9/7/2020			HK
VEHICLE	42020013490.1	37772020			
COMPUTING					
SYSTEM, LIGHT					
DETECTION AND					
RANGING					
CALIBRATION SYSTEM AND					
METHOD					
THEREOF					
OBJECT	2019-135337	7/23/2019	6676814	3/16/2020	JP
DETECTION					
BASED ON LIDAR					
INTENSITY	102010070710	7/21/2010			CD
OBJECT DETECTION	10201907051S	7/31/2019			GB
BASED ON LIDAR					
INTENSITY					
AUTONOMOUS	16/173,633	10/29/2018			US
VEHICLE					
WAYPOINT					
ROUTING					

	T + 4/100 000	T (444 / 204)	1770
AUTONOMOUS	16/437,827	6/11/2019	US
VEHICLE			
LOCALIZATION			
USING A LIDAR			
INTENSITY MAP			
ROUTING GRAPH	16/696,227	11/26/2019	US
MANAGEMENT			
IN AUTONOMOUS			
VEHICLE			
ROUTING			
ROUTING GRAPH	PCT/US2019/063	11/26/2019	US
MANAGEMENT	286		
IN AUTONOMOUS			
VEHICLE			
ROUTING			
LOCAL MAP	16/536,925	8/9/2019	US
SERVER AND	<u> </u>		
MULTIPLEXER			
LOG	16/366,561	3/27/2019	US
TRAJECTORY	ĺ		
ESTIMATION FOR			
GLOBALLY			
CONSISTENT			
MAPS			
GROUND	62/835,207	4/17/2019	US
INTENSITY	,		
LIDAR			
LOCALIZER			
GROUND	16/536,895	8/9/2019	US
INTENSITY			
LIDAR			
LOCALIZER			
DEPART	16/538,275	8/12/2019	US
CONSTRAINTS	-5,225,272		
IMPLEMENTATIO			
N IN			
AUTONOMOUS			
VEHICLE			
ROUTING			
DYNAMIC	62/824,973	3/27/2019	US
MATRIX FILTER	02,021,575	3,21,2019	
FOR VEHICLE			
IMAGE SENSOR			
DYNAMIC	16/460,421	7/2/2019	US
MATRIX FILTER	107 100, 121	11212017	
FOR VEHICLE			
IMAGE SENSOR			
IMAGE SENSOR		1	

	T = 10 = 1 - 1 - 1	1		1
PROACTIVE	62/823,594	3/25/2019		US
GENERATION OF				
TUNING DATA				
FOR				
AUTONOMOUS				
VEHICLE				
DISPATCH				
PICK-UP/DROP-	62/829,340	4/4/2019		US
OFF ZONE	02/027,540	7/4/2017		
AVAILABILITY				
ESTIMATION				
USING				
PROBABILITIC				
MODEL				
	16/514 022	7/17/2010		TIC
PICK-UP/DROP-	16/514,933	7/17/2019		US
OFF ZONE				
AVAILABILITY				
ESTIMATION				
USING				
PROBABILISTIC				
MODEL				
PICK-UP/DROP-	62/829,343	4/4/2019		US
OFF ZONE				
HANDOFF				
BETWEEN				
AUTONOMOUS				
VEHICLES				
PICK-UP/DROP-	16/514,937	7/17/2019		US
OFF ZONE				
HANDOFF				
BETWEEN				
AUTONOMOUS				
VEHICLES				
PICK-UP/DROP-	PCT/US2020/015	1/24/2020		US
OFF ZONE	046			
HANDOFF				
	16/529 226	9/12/2010		LIC
AUTONOMOUS	16/538,236	8/12/2019		US
VEHICLE				
POSITIONING				
FOR TRIP				
OPTIMIZATION				
GEOREFERENCE	16/366,543	3/27/2019	+	US
	10/300,543	3/2//2019		03
D TRAJECTORY				
ESTIMATION				
SYSTEM				
ALL MOVER	62/840,165	4/29/2019		US
PRIORS				
	16/727 654	12/26/2010	+	LIC
ALL MOVER	16/727,654	12/26/2019		US
PRIORS				

Demania Ohiaat	62/902 779	8/28/2019	US
Dynamic Object	62/892,778	8/28/2019	
Removal Radar Simulation	(2/902.75(8/28/2019	US
	62/892,756		
Automated	16/553,654	8/28/2019	US
Accuracy			
Assessment in			
Tasking System		7.0.12.0.10	
Identifying	62/871,458	7/8/2019	US
Unknown Instances			
for Autonomous			
Driving			
SpAGNN: Spatialy-	62/871,452	7/8/2019	US
Aware Graph Neural			
Networks for			
Relational Behavior			
Forecasting from			
Sensor Data			
End-to-end	62/871,436	7/8/2019	US
Contextual			
Perception and			
Prediction with			
Interaction			
Transformer			
Goal-Directed	62/870,934	7/5/2019	US
Occupancy			
Prediction for Lane-			
Following Actors			
Learning to	62/852,116	5/23/2019	US
Remember from a			
Multi-Task Teacher			
System and Methods	62/866,279	6/25/2019	US
for Autonomous			
Vehicle Testing			
LIDAR FAULT	62/870,183	7/3/2019	US
DETECTION			
SYSTEM			
Systems and	62/882,642	8/5/2019	US
Methods for			
Autonomous			
Vehicle Deployment			
and Control	(2/2222	2/22/23/2	110
Large-Scale Visual	62/822,846	3/23/2019	US
Localization in the			
Age of Self-Driving			
Cars	(2.10.5 - 2.1 -	0.00.00.00	1 222
Differentiable Deep	62/822,845	3/23/2019	US
PatchMatch for			
Efficient Stereo			
Matching			

LidarSIM: Realistic	62/822,844	3/23/2019	US
LiDAR Simulation			
by Leveraging the			
Real World			
Learning Joint 2D-	62/822,843	3/23/2019	US
3D Representations			
for Depth			
Completion			
Deep Stereo Image	62/822,842	3/23/2019	US
Compression			
Learning to Map by	62/822,841	3/23/2019	US
Discovering Lane			
Topology			
Network Automatic	62/822,840	3/23/2019	US
Pruning			
Deformable Filter	62/822,838	3/23/2019	US
Convolution for			
Point Cloud			
Reasoning			
PnPNet: Learning	62/822,837	3/23/2019	US
Temporal Instance			
Representations for			
Joint Perception and			
Motion Forecasting			
PolyTransform:	62/822,836	3/23/2019	US
Deep Polygon			
Transformer for			
Instance			
Segmentation			
Sensor Output	62/870,998	7/5/2019	US
Segmentation			
Systems and	62/821,354	3/20/2019	US
Methods for			
Autonomous			
Vehicles			
Methods and	62/864,843	6/21/2019	US
Systems for Motion			
Planning for an			
Autonomous			
Vehicle			
Third-Party Vehicle	62/844,051	5/6/2019	US
Operator Sign-In			<u> </u>
Full Uncertainty for	62/887,760	8/16/2019	US
Motion Planning in			
Autonomous			
Vehicles			
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	r		
Hardware in Loop	62/888,034	8/16/2019	US
Testing for			
Generation of			
Latency Profiles for			
Use in Simulation			
Vehicle Integration	62/823,300	3/25/2019	US
Platform (VIP)	02/022,200	0,20,2015	
Security Integration			
Vehicle Integration	16/557,084	8/30/2019	US
Platform (VIP)	10/337,004	0/30/2019	05
Security Integration			
	(2/00/ 001	0/12/2010	LIC
Association and	62/886,001	8/13/2019	US
Tracking for			
Autonomous			
Devices			
Methods and	62/833,401	4/12/2019	US
Systems for			
Managing Network			
Resources of an			
Autonomous			
Vehicle			
Methods and	16/458,952	7/1/2019	US
Systems for	,		
Managing Network			
Resources of a			
Vehicle			
Methods and	62/833,392	4/12/2019	US
Systems for	02/033,392	7/12/2019	05
Configuring			
Autonomous-			
Vehicle			
Communications	16/470 272	7/1/2010	TIC.
Methods and	16/458,353	7/1/2019	US
Systems for			
Configuring Vehicle			
Communications			
Cloud Software	16/526,079	7/30/2019	US
Development Kit for			
Third-Party			
Autonomous			
Vehicles			
Offboard Vehicle	16/517,861	7/22/2019	US
Service Testing			
System			
Systems and	62/863,566	6/19/2019	US
Methods for], 0 02,0 00	0,12,2012	
Autonomous			
Vehicle Control			
with Interactive			
Object Annotation			
Object Annotation	l		

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Command Toolbox	62/887,777	8/16/2019	US
For Autonomous			
Vehicles			
Motion Prediction	16/506,522	7/9/2019	US
for Autonomous			
Devices			
Systems and	62/839,127	4/26/2019	US
Methods for			
Improved			
Monitoring of a			
Vehicle Integration			
Platform			
Systems and	16/454,624	6/27/2019	US
Methods for	10/434,024	0/2//2019	
Improved			
Monitoring of a			
Vehicle Integration			
Platform Valida Integration	16/454 700	6/27/2010	US
Vehicle Integration	16/454,700	6/27/2019	
Platform (VIP)			
Security	16/5/11 500	0/17/2010	110
End-To-End	16/541,739	8/15/2019	US
Interpretable Motion			
Planner for			
Autonomous			
Vehicles			
Multi-Task Multi-	62/858,489	6/7/2019	US
Sensor Fusion for			
Three-Dimensional			
Object Detection			
System And Method	62/869,251	7/1/2019	US
For Identifying			
Travel Way Features			
for Autonomous			
Vehicle Motion			
Control			
Deep Structured	62/851,753	5/23/2019	US
Scene Flow for	ĺ		
Autonomous			
Devices			
Deep Structured	16/531,720	8/5/2019	US
Scene Flow for			
Autonomous			
Devices			
Feature	62/846,248	5/10/2019	US
Compression and	02/010,210	[5,10,2019]	
Localization for			
Autonomous			
Devices			
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T D 1	(2/020 (52	1/5/2010	T		TIG
Image Based	62/829,672	4/5/2019			US
Localization System					
Systems and	62/834,596	4/16/2019			US
Methods for					
Generating					
Synthetic Light					
Detection and					
Ranging Data Via					
Machine Learning					
Systems and	16/299,527	3/12/2019			US
Methods for					
Detecting an Object					
Velocity					
LOCATION-	PCT/US2019/045	8/8/2019			WO
BASED	662				
CHECKLIST					
INTERFACE FOR					
AUTONOMOUS					
VEHICLE USERS					
Gridlock Solver for	PCT/US2019/035	6/6/2019			WO
Motion Planning	713	0, 0, 2025			''
System of an					
Autonomous					
Vehicle					
STEERABLE	PCT/US2019/047	8/19/2019			wo
CAMERA FOR	102	0,15,2015			''
PERCEPTION	102				
AND VEHICLE					
CONTROL					
DETECTING AND	16/520,812	7/24/2019	10837786	11/17/2020	US
TRACKING	10/320,012	772472019	10037700	11/11/2020	
LIDAR CROSS-					
TALK					
SYSTEM AND	PCT/US2019/037	6/14/2019			WO
METHOD FOR	222	0/14/2019			WO
DETERMINING					
OBJECT					
INTENTION					
THROUGH					
VISUAL					
ATTRIBUTES					
Multi-Task	16/420,686	5/23/2019		+	US
Machine-Learned	10/420,000	3/23/2019			08
Models for Object					
Intention Determination in					
Determination in					
Autonomous					
Driving					

Methods and	16/437,227	6/11/2019		US
Systems for				
Configuring and				
Instructing				
Autonomous				
Vehicles				
Autonomous	16/446,021	6/19/2019		US
Vehicle Fleet	10,110,021	0,15,2015		
Management for				
Improved				
Computational				
Resource Usage				
LIDAR SYSTEM	PCT/US2019/043	7/25/2019		WO
DESIGN TO	410	1/23/2019		WO
MITIGATE LIDAR	410			
CROSSTALK	16/520 700	7/24/2010	 	TIC
LIDAR SYSTEM	16/520,799	7/24/2019		US
DESIGN TO				
MITIGATE LIDAR				
CROSS-TALK				
Systems and	PCT/US2019/035	6/5/2019		WO
Methods for	582			
Pipelined Processing				
Of Sensor Data				
Using Hardware				
Palette System for	PCT/US2019/044	7/31/2019		WO
Cargo Transport	419			
Integration Platform	PCT/2019US/043	7/26/2019		WO
for Autonomous	664			
Vehicles				
Providing	PCT/US2019/039	6/27/2019		WO
Actionable	529	0,21,2019		" "
Uncertainties in	329			
Autonomous				
Vehicles				
AUTOMATED	PCT/US2019/032	5/17/2019		WO
DELIVERY	781	3/17/2019		"
	/81			
SYSTEMS FOR				
AUTONOMOUS				
VEHICLES	DOTHER SOLO 102 1	4/11/2010		III/O
Autonomous	PCT/US2019/026	4/11/2019		WO
Vehicle Control	918			
Using Service Pools				
Across Different				
Service Entities		1		1
Autonomous	16/382,657	4/12/2019		US
Vehicle Control				
Using Service Pools				
Across Different				
Service Entities				

		1/11/2010	1	
Autonomous		4/11/2019		CA
Vehicle Control				
Using Service Pools				
Across Different				
Service Entities				
Three-Dimensional	16/353,463	3/14/2019		US
Object Detection				
Three-Dimensional	16/353,457	3/14/2019		US
Object Detection				
Selective Activation	16/414,144	5/16/2019		US
of Autonomous				
Vehicles				
Autonomous	PCT/US2019/043	7/23/2019		WO
Vehicle Idle State	000			
Task Selection for				
Improved				
Computational				
Resource Usage				
Autonomous	16/519,727	7/23/2019		US
Vehicle Idle State				
Task Selection for				
Improved				
Computational				
Resource Usage				
Reducing	PCT/US2019/030	5/2/2019		WO
Autonomous	430			
Vehicle Downtime				
and Idle Data Usage				
Reducing	16/401,629	5/2/2019		US
Autonomous				
Vehicle Downtime				
and Idle Data Usage				
Reducing	16/401,615	5/2/2019		US
Autonomous				
Vehicle Downtime				
and Idle Data Usage				
Reducing		5/2/2019		EP
Autonomous				
Vehicle Downtime				
and Idle Data Usage				
Systems and	PCT/US2019/029	4/26/2019		WO
Methods for	320			
Managing Space at a				
Location for				
Receiving Assets				

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SYSTEMS AND	PCT/US2019/029	4/26/2019			WO
METHODS FOR	317				
CONTROLLING					
AN ARRIVAL OF					
ONE OR MORE					
ASSETS AT A					
LOCATION					
SYSTEMS AND	PCT/US2019/029	4/26/2019			WO
METHODS FOR	367	7/20/2017			***
CONTROLLING	307				
MOVEMENT OF					
ASSETS WITHIN					
A TRANSFER					
HUB					
Controlling an	PCT/US2019/026	4/11/2019			WO
Autonomous	916				
Vehicle and the					
Service Selection of					
an Autonomous					
Vehicle					
Controlling an	16/381,847	4/11/2019			US
Autonomous	10/301,017	4/11/2019			
Vehicle and the					
Service Selection of					
an Autonomous					
Vehicle	16/201 044	4/11/2010			TIC
Controlling an	16/381,844	4/11/2019			US
Autonomous					
Vehicle and the					
Service Selection of					
an Autonomous					
Vehicle					
Controlling an	16/381,839	4/11/2019			US
Autonomous					
Vehicle and the					
Service Selection of					
an Autonomous					
Vehicle					
Systems and	16/504,034	7/5/2019			US
Methods for					
Controlling					
Autonomous					
Vehicles that					
Provide a Vehicle					
Service to Users Lidar Sensor	29/692,678	5/28/2019	USD882430	4/28/2020	US
Lidar Sensor	29/092,0/8	3/28/2019	USD08243U	4/28/2020	05

	r	T	T	1	
Context-Specific	16/553,929	8/28/2019	US10571922	2/25/2020	US
Tolerance for					
Motion Control in					
Autonomous					
Vehicles					
Supervised	16/429,847	6/3/2019			US
Movement of	,	0,0,0			
Autonomous					
Vehicle					
	PCT/US2019/032	5/15/2019			WO
LIDAR SENSOR		3/13/2019			WO
ASSEMBLY	456				
INCLUDING					
DOVETAIL JOINT					
COUPLING					
FEATURES					
System and Methods	US16/544,294	4/19/2019			US
to Enable User	,				
Control of an					
Autonomous					
Vehicle					
	16/420 427	6/3/2019			US
Autonomous	16/429,437	6/3/2019			08
Vehicle Collision					
Mitigation Systems					
and Methods					
Disabling Onboard	16/504,042	7/5/2019			US
Input Devices in an					
Autonomous					
Vehicle					
COORDINATING	16/389,360	4/19/2019			US
ON-DEMAND	1 20,000,000				
TRANSPORTATIO					
N WITH					
AUTONOMOUS					
VEHICLES	46447407	6/40/2040			7.70
Systems and	16/445,187	6/19/2019			US
Methods to Control					
Autonomous					
Vehicle Motion					
FPGA Device for	16/377,346	4/8/2019			US
Image Classification					
Vehicle Control	11201907791W	8/23/2019			SG
System					
	2010 546222	0/27/2010			ID
Vehicle Control	2019-546232	8/27/2019			JP
System					<u> </u>
Vehicle Control	18708529.5	8/23/2019			EP
System					<u> </u>
Vehicle Security	16/363,366	3/25/2019	US10659382	5/19/2020	US
System					
Vehicle	16/554,711	8/29/2019			US
Management System		3,23,2013			
management bystem	l .		1	1	

X 7 1 ' 1	11201005205D	6/10/2010	1	T	Tac
Vehicle	11201905385R	6/13/2019			SG
Management System	2010 521710	6/12/2010			ID
Vehicle	2019-531719	6/13/2019			JP
Management System	17022207.2	7/12/2010			ED
Vehicle	17823305.2	7/12/2019			EP
Management System	2015000044010	7/24/2010			C) I
Vehicle	201780084481.0	7/24/2019			CN
Management System					
Vehicle	3047095	6/13/2019			CA
Management System					
Vehicle Servicing	11201905372 S	6/13/2019			SG
System					
Vehicle Servicing	17825340.7	7/12/2019			EP
System					
Vehicle Servicing	201780083981.2	7/18/2019		7/30/2020	CN
System					
Vehicle Servicing	3047086	6/13/2019			CA
System		0,10,201			
Charge Control	16/369,460	3/29/2019			US
System for Mobile	10,203,100	3,23,2013			
Energy Storage					
Fleet					
Charge Control	16/369,454	3/29/2019			US
System for Mobile					
Energy Storage					
Fleet					
Charge Control	18709119.4	7/22/2019			EP
System for Mobile					
Energy Storage					
Fleet					
NEURAL	201780064218.5	4/17/2019			CN
NETWORK					
SYSTEM FOR					
AUTONOMOUS					
VEHICLE					
CONTROL					
SENSOR	2019-137876	7/26/2019		9/2/2020	JP
CLEANING					
SYSTEM FOR					
VEHICLES					
EXTERNAL	16/504,049	7/5/2019			US
SENSOR					
ASSEMBLY FOR					
VEHICLES					

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TRANSPORT	3040081	4/11/2019			CA
FACILITATION					
SYSTEM FOR					
CONFIGURING A					
SERVICE					
VEHICLE FOR A					
USER					
FACILITATING	16/420,654	5/23/2019			US
RIDER PICK-UP					
FOR A SELF-					
DRIVING					
VEHICLE					
DETECTING	16/414,979	5/17/2019	US10662696	5/26/2020	US
OBJECTS WITHIN					
A VEHICLE IN					
CONNECTION					
WITH A SERVICE					
SELECTING	16/509,168	7/11/2019			US
VEHICLE TYPE					
FOR PROVIDING					
TRANSPORT					
AUTONOMOUS	20159753.1	5/13/2016			EP
VEHICLE					
OPERATED WITH					
GUIDE					
ASSISTANCE					
AUTONOMOUS	20159764.8	5/13/2016			EP
VEHICLE					
OPERATED WITH					
GUIDE					
ASSISTANCE					
AUTONOMOUS	16793657.4	5/13/2016	6020160359	5/6/2020	DE
VEHICLE	2072007.1	0,15,2010	81.2	3,0,2020	
OPERATED WITH			31.2		
GUIDE					
ASSISTANCE					
AUTONOMOUS	16793657.4	5/13/2016	3295268	5/6/2020	FR
VEHICLE	10775057,7	3,13,2010	3233200	3,0,2020	
OPERATED WITH					
GUIDE					
ASSISTANCE					
AUTONOMOUS	16793657.4	5/13/2016	3295268	5/6/2020	GB
VEHICLE	10/3303/.4	3/13/2010	3293200	3/0/2020	db db
OPERATED WITH					
GUIDE					
ASSISTANCE					

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AUTONOMOUS	16793657.4	5/13/2016	3295268	5/6/2020	NL
VEHICLE					
OPERATED WITH					
GUIDE					
ASSISTANCE					
AUTONOMOUS	10-2017-7035830	5/13/2016			KR
VEHICLE					
OPERATED WITH					
GUIDE					
ASSISTANCE					
PROVIDING	16/430,943	6/4/2019			US
REMOTE	,				
ASSISTANCE TO					
AN					
AUTONOMOUS					
VEHICLE					
METHODS,	201480022190.5	3/14/2014			CN
SYSTEMS AND					
APPARATUS FOR					
MULTI-SENSORY					
STEREO VISION					
FOR ROBOTICS					
METHODS,	14770009.0	3/14/2014			EP
SYSTEMS AND	117,0005.0	5,11,2011			
APPARATUS FOR					
MULTI-SENSORY					
STEREO VISION					
FOR ROBOTICS					
METHODS,	2016-502343	3/14/2014	6514681	4/19/2019	JP
SYSTEMS AND	2010 3023 13	3/11/2011	0311001	1/15/2015	31
APPARATUS FOR					
MULTI-SENSORY					
STEREO VISION					
FOR ROBOTICS					
METHODS,	10-2015-7029111	3/14/2014			KR
SYSTEMS AND	10-2013-7027111	3/14/2014			IXIX
APPARATUS FOR					
MULTI-SENSORY					
STEREO VISION					
FOR ROBOTICS					
SATELLITE	16/532,789	8/6/2019			US
SIGNAL	10/332,709	0/0/2019			
CALIBRATION					
SYSTEM					
TRAVEL TIME	15/610,068	5/31/2017	10810883		US
ESTIMATION	15/010,008	3/31/2017	10010803		03
ESTIMATION					

TELEASSISTANC	15/452,456	3/7/2017	10202126	2/12/2019	US
E DATA	13/432,430	3/1/2017	10202120	2/12/2019	
ENCODING FOR					
SELF-DRIVING					
VEHICLES					
HYBRID TRIP	17844132.5	8/14/2017			EP
PLANNING FOR	17044132.3	0/14/2017			
AUTONOMOUS					
VEHICLES					
HYBRID TRIP	16/437,881	6/11/2019	10586458	3/10/2020	US
PLANNING FOR	10, 127,001	0,11,201	10000100	2,10,2020	
AUTONOMOUS					
VEHICLES					
DESTINATION	2018266108	5/8/2018			AU
CHANGES IN					
AUTONOMOUS					
VEHICLES					
DESTINATION	3,063,089	5/8/2018			CA
CHANGES IN	7 7				
AUTONOMOUS					
VEHICLES					
DESTINATION	11201910272T	5/8/2018			SG
CHANGES IN					
AUTONOMOUS					
VEHICLES					
DESTINATION	16/545,300	8/20/2019			US
CHANGES IN	ĺ ,				
AUTONOMOUS					
VEHICLES					
AUTONOMOUS	16/519,415	7/23/2019			US
VEHICLE					
ROUTING USING					
ANNOTATED					
MAPS					
ON-DEMAND	16/389,794	4/19/2019			US
TRANSPORT					
SYSTEM					
FACILITATING					
THIRD-PARTY					
AUTONOMOUS					
VEHICLES					
ON-DEMAND	PCT/US2019/028	4/19/2019			WO
TRANSPORT	396				
SYSTEM					
FACILITATING					
THIRD-PARTY					
AUTONOMOUS					
VEHICLES					

RECORDED: 11/24/2020

EXHIBIT A Transferred Patents

NAVIGATIONAL	16/434,501	6/7/2019		US
CONSTRAINTS				
FOR				
AUTONOMOUS				
VEHICLES				
COMPUTER	16/828,632	3/24/2020		US
SYSTEM FOR				
UTILIZING				
ULTRASONIC				
SIGNALS TO				
IMPLEMENT				
OPERATIONS FOR				
AUTONOMOUS				
VEHICLES				