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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
18/222,774	07/17/2023		1820	S0974-P08818US08	18	3

CONFIRMATION NO. 9586

164
KINNEY & LANGE, P.A.
333 S. 7TH ST., SUITE 2700
MINNEAPOLIS, MN 55402-2438

FILING RECEIPT

OC000000060023407

Date Mailed: 08/01/2023

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Michael S. Gordon, Yorktown Heights, NY;
James R. Kozloski, New Fairfield, CT;
Ashish Kundu, New York, NY;
Peter K. Malkin, Ardsley, NY;
Clifford A. Pickover, Yorktown Heights, NY;

Applicant(s)

Slingshot IOT LLC, Baltimore, MD;

Power of Attorney: The patent practitioners associated with Customer Number 164

Domestic Priority data as claimed by applicant

This application is a CON of 17/374,656 07/13/2021
which is a CON of 16/997,202 08/19/2020 PAT 11,091,171
which is a CON of 16/899,407 06/11/2020 ABN
and is a CON of 15/955,874 04/18/2018 PAT 10,717,446
which is a CON of 15/341,225 11/02/2016 PAT 10,029,701
which is a CON of 14/865,393 09/25/2015 PAT 9,566,986

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 07/31/2023
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/222,774**
Projected Publication Date: 11/09/2023
Non-Publication Request: No
Early Publication Request: No
Title

CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES

Preliminary Class

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative,

this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

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technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 18/222,774

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	320
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	700
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	800
TOTAL CLAIMS (37 CFR 1.16(i))	18 minus 20 =	* 0			OR	x =	0
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*				x =	0
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	1820

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
AMENDMENT A	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
AMENDMENT A	Application Size Fee (37 CFR 1.16(s))									
AMENDMENT A	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)	OR	RATE($)	ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
AMENDMENT B	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
AMENDMENT B	Application Size Fee (37 CFR 1.16(s))									
AMENDMENT B	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/222,774	07/17/2023	Michael S. Gordon	S0974-P08818US08

CONFIRMATION NO. 9586

164
KINNEY & LANGE, P.A.
333 S. 7TH ST., SUITE 2700
MINNEAPOLIS, MN 55402-2438

PUBLICATION NOTICE

OC000000064386444

Date Mailed: 11/09/2023

Title:CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES

Publication No.US-2023-0356735-A1
Publication Date:11/09/2023

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently https://portal.uspto.gov/pair/PublicPair. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Managment, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/222,774	**01/05/2024 07:19:38 PM Z ET**	**S0974-P08818US08**

Title of Invention

CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	9586	FILED BY	Nicole Chambers
PATENT CENTER #	63839110	FILING DATE	07/17/2023
CUSTOMER #	164	FIRST NAMED INVENTOR	Michael S. Gordon
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Ian MacKinnon

Documents

TOTAL DOCUMENTS: 3

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
2024-01-04_STATE_373_S0974-P08818US08.pdf	3	Assignee showing of ownership per 37 CFR 3.73	121 KB
2024-01-04_POA_S0974-P08818US08.pdf	2	Power of Attorney	4011 KB
2024-01-04_SADS_S0974-P08818US08.pdf	10	Application Data Sheet	2994 KB

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Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
2024-01-04_STATE_373_S0974-P08818US08.pdf	02E92785BA335E6781EA448999E1955AA238935B7AB9AD2EE5EB0D4617ACCE0E4239DD692BC91FF242E42E83619A7E4E48EA8E270DAC27D546FEB220AF1C0D16
2024-01-04_POA_S0974-P08818US08.pdf	D08694FD665C2290D7F1505FB570DE1C5BC475967081388FA3ACF4C03845187D580534902996E810722F6C926E2737093E5F3B29FAF5C38167030183BA7CAAA9
2024-01-04_SADS_S0974-P08818US08.pdf	5230B6EA26A5560D2FC42BA9EC4CA078CD64F7694476B9A2D52D84B2431FE8ACBE9C77E09A137133D252DE81DCECD6EEB780ECB43187A251EDED96BF025A125D

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/AIA/96 (08-12)
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STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: GRANITE VEHICLE VENTURES LLC

Application No./Patent No.: 18/222,774 Filed/Issue Date: July 17, 2023

Titled: CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES

GRANITE VEHICLE VENTURES LLC, a Limited Liability Company

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☑ The assignee of the entire right, title, and interest.

2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):

☐ The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

B. ☑ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: GORDON, MICHAEL S. KOZLOSKI, JAMES R. KUNDU, ASHISH MALKIN, PETER K. PICKOVER, CLIFFORD A. To: INTERNATIONAL BUSINESS MACHINES CORPORATION

The document was recorded in the United States Patent and Trademark Office at Reel 036656, Frame 0158, or for which a copy thereof is attached.

2. From: INTERNATIONAL BUSINESS MACHINES CORPORATION To: DAEDALUS GROUP LLC

The document was recorded in the United States Patent and Trademark Office at Reel 051032, Frame 0784, or for which a copy thereof is attached.

This collectionof information is required by 37CFR 3.73(b). The informationis required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application.Confidentiality isgoverned by 35U.S.C. 122 and37 CFR 1.11and 1.14.This collection is estimated to take 12 minutes to complete, including gathering,preparing, and submitting the completed applicationform to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should besent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETEDFORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA22313-1450** .

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STATEMENT UNDER 37 CFR 3.73(c)

3. From: INTERNATIONAL BUSINESS MACHINES CORPORATION To: DAEDALUS GROUP, LLC

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4. From: DAEDALUS GROUP, LLC To: SLINGSHOT IOT LLC

The document was recorded in the United States Patent and Trademark Office at
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5. From: SLINGSHOT IOT LLC To: GRANITE VEHICLE VENTURES LLC

The document was recorded in the United States Patent and Trademark Office at
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6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☐ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Ian D. MacKinnon/	January 4, 2024
Signature	Date
Ian D. MacKinnon	34,660
Printed or Typed Name	Title or Registration Number

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requiresthat you begiven certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirementsof the Act, please be advised that: (1)the general authority for the collectionof this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary;and (3) the principalpurpose for whichthe informationis used by the U.S. Patent and Trademark Office is to process and/or examine your submission related toa patent application or patent. If you do not furnishthe requested information, the U.S. Patent and Trademark Officemay not be able to process and/or examine yoursubmission, which may result in termination of proceedings orabandonment of the application or expiration of the patent.

Theinformation provided by you in this form will be subject to the following routine uses:

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5. Arecord related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further,a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. Arecord from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
Approved for use through 03/31/2021. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	18/222,774
Filing Date	July 17, 2023
First Named Inventor	Michael S. Gordon
Title	CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES
Art Unit	
Examiner Name	
Attorney Docket Number	S0974-PA-08825-US-04

SIGNATURE of Applicant or Patent Practitioner

Signature	/Ian D. MacKinnon/	Date (Optional)	January 4, 2024
Name	Ian D. MacKinnon	Registration Number	34,660
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☑ *Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82B (07-13)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☑ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 164

OR

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

☑ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

☐ Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

GRANITE VEHICLE VENTURES LLC

☐ Inventor or Joint Inventor (title not required below)

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

☑ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature	York Eggleston, IV	Date (Optional)	
Name	York Eggleston IV		
Title	Managing Principal		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☑ Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	S0974-P08818US08
	Application Number	18/222,774
Title of Invention	CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Michael	S.	Gordon	

Residence Information (Select One) ◉ US Residency ◯ Non US Residency ◯ Active US Military Service

City	Yorktown Heights	State/Province	NY	Country of Residence	US

Mailing Address of Inventor:

Address 1	1101 Kitchawan Road
Address 2	Route 134/P.O. Box 218
City	Yorktown Heights
State/Province	NY
Postal Code	10598
Country i	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	James	R.	Kozloski	

Residence Information (Select One) ◉ US Residency ◯ Non US Residency ◯ Active US Military Service

City	New Fairfield	State/Province	CT	Country of Residence	US

Mailing Address of Inventor:

Address 1	1101 Kitchawan Road
Address 2	Route 134/P.O. Box 218
City	Yorktown Heights
State/Province	NY
Postal Code	10598
Country i	US

Inventor 3 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Ashish		Kundu	

Residence Information (Select One) ◉ US Residency ◯ Non US Residency ◯ Active US Military Service

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	S0974-P08818US08
	Application Number	18/222,774
Title of Invention	CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES	

City	New York	State/Province	NY	Country of Residence	US

Mailing Address of Inventor:

Address 1	1101 Kitchawan Road		
Address 2	Route 134/P.O. Box 218		
City	Yorktown Heights	State/Province	NY
Postal Code	10598	Country i	US

Inventor 4 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Peter	K.	Malkin	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Ardsley	State/Province	NY	Country of Residence	US

Mailing Address of Inventor:

Address 1	1101 Kitchawan Road		
Address 2	Route 134/P.O. Box 218		
City	Yorktown Heights	State/Province	NY
Postal Code	10598	Country i	US

Inventor 5 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Clifford	A.	Pickover	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Yorktown Heights	State/Province	NY	Country of Residence	US

Mailing Address of Inventor:

Address 1	1101 Kitchawan Road		
Address 2	Route 134/P.O. Box 218		
City	Yorktown Heights	State/Province	NY
Postal Code	10598	Country i	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

PTO/AIA/14 (02-18)
Approved for use through 11/30/2020. OMB 0651-0032
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	S0974-P08818US08
	Application Number	18/222,774
Title of Invention	CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES	

Customer Number	164		
Email Address	uspatdocket@kinney.com	Add Email	Remove Email

Application Information:

Title of the Invention	CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES		
Attorney Docket Number	S0974-P08818US08	**Small Entity Status Claimed**	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	8	**Suggested Figure for Publication (if any)**	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	164		

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	S0974-P08818US08
	Application Number	18/222,774
Title of Invention	CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES	

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
18222774	Continuation of	17374656	2021-07-13	11738765	2023-08-29

Prior Application Status	~~Pending~~		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	~~Continuation of~~	~~17374656~~	

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
17374656	Continuation of	16997202	2020-08-19	11091171	2021-08-17

Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
16997202	Continuation of	16899407	2020-06-11

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16997202	Continuation of	15955874	2018-04-18	10717446	2020-07-21

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15955874	Continuation of	15341225	2016-11-02	10029701	2018-07-24

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15341225	Continuation of	14865393	2015-09-25	9566986	2017-02-14

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	S0974-P08818US08
	Application Number	18/222,774
Title of Invention	CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES	

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[j] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	S0974-P08818US08
	Application Number	18/222,774
Title of Invention	CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	S0974-P08818US08
	Application Number	18/222,774
Title of Invention	CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

◉ Assignee ◯ Legal Representative under 35 U.S.C. 117 ◯ Joint Inventor

◯ Person to whom the inventor is obligated to assign. ◯ Person who shows sufficient proprietary interest

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	~~Slingshot IOT LLC~~ GRANITE VEHICLE VENTURES LLC		
Mailing Address Information For Applicant:			
Address 1	~~301 South Fremont Avenue~~ 3610-2 N JOSEY		
Address 2	SUITE 223		
City	~~Baltimore~~ CARROLLTON	**State/Province**	~~MD~~ TX
Country	US	Postal Code	~~21230~~ 75007
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	S0974-P08818US08
	Application Number	18/222,774
Title of Invention	CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Ian D. MacKinnon/			Date (YYYY-MM-DD)	2024-01-04
First Name	Ian D.	Last Name	MacKinnon	Registration Number	34,660

Additional Signature may be generated within this form by selecting the Add button.

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	S0974-P08818US08
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Title of Invention	CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES	

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Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1 The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3 A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent CooperationTreaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/222,774	07/17/2023	Michael S. Gordon	S0974-P08818US08

CONFIRMATION NO. 9586

POA ACCEPTANCE LETTER

OC000000067058134

164
KINNEY & LANGE, P.A.
333 S. 7TH ST., SUITE 2700
MINNEAPOLIS, MN 55402-2438

Date Mailed: 01/17/2024

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 01/05/2024.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/zabraha/

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
18/222,774	07/17/2023	OPAP	1820	S0974-P08818US08	18	3

CONFIRMATION NO. 9586

REPLACEMENT FILING RECEIPT

164
KINNEY & LANGE, P.A.
333 S. 7TH ST., SUITE 2700
MINNEAPOLIS, MN 55402-2438

OC000000067058141

Date Mailed: 01/17/2024

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

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Inventor(s)

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Power of Attorney: The patent practitioners associated with Customer Number 164

Domestic Priority data as claimed by applicant

This application is a CON of 17/374,656 07/13/2021 PAT 11,738,765
which is a CON of 16/997,202 08/19/2020 PAT 11,091,171
which is a CON of 16/899,407 06/11/2020 ABN
and is a CON of 15/955,874 04/18/2018 PAT 10,717,446
which is a CON of 15/341,225 11/02/2016 PAT 10,029,701
which is a CON of 14/865,393 09/25/2015 PAT 9,566,986

Foreign Applications for which priority is claimed (You may be eligible to benefit from the Patent Prosecution Highway program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 07/31/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/222,774**

Projected Publication Date: 11/09/2023

Non-Publication Request: No

Early Publication Request: No
Title

CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES

Preliminary Class

701

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/222,774	**02/23/2024 03:13:33 PM Z ET**	**S0974-P08818US08**

Title of Invention

CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	9586	FILED BY	NICOLE CHAMBERS
PATENT CENTER #	64427896	AUTHORIZED BY	Ian MacKinnon
CUSTOMER #	164	FILING DATE	07/17/2023
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Michael S. Gordon

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 110982	**E20242MF17467735**	**Ian MacKinnon**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1202	EACH CLAIM IN EXCESS OF 20	100.00	19	1900.00
1201	EACH INDEPENDENT CLAIM IN EXCESS OF THREE	480.00	2	960.00
			TOTAL AMOUNT:	**$2,860.00**

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/222,774	**02/23/2024 03:13:33 PM Z ET**	**S0974-P08818US08**

Title of Invention

CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES

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APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	9586	FILED BY	NICOLE CHAMBERS
PATENT CENTER #	64427896	FILING DATE	07/17/2023
CUSTOMER #	164	FIRST NAMED INVENTOR	Michael S. Gordon
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Ian MacKinnon

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
2024-02-23_P-AMEND_S0974-P08818US08-APP.TEXT.docx	20	Application body structured text document	39 KB

Warning: Bookmarks were found and have been removed.

2024-02-23_P-AMEND_S0974-P08818US08.pdf	20	Auxiliary PDF of Application	75 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)

2024-02-23_P-AMEND_S0974-P08818US08-APP.TEXT.docx	4A03D808F42CCB69AC37ECBE6CEA92F4B84FD6FE201627CE3B46CFD94033638B55A2B9399784C5F5CF285EAC601E1C2A364EBA774E3FC87104110020FC1251DE
2024-02-23_P-AMEND_S0974-P08818US08.pdf	9931BC67FB284265898256839DB22590F5664AA5A9ED61681E08096B3AB519024F6CAF3F82EAC5C9616ADD50CB10A5CD627BA79144989E28D3A1205D923DBE85

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National Stage of an International Application under 35 U.S.C. 371

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New International Application Filed with the USPTO as a Receiving Office

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor	:	Michael S. Gordon	
Appln. No.	:	18/222,774	Confirmation No.: 9586
Filed	:	July 17, 2023	Group Art Unit: 3669
Title	:	CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES	Examiner: Todd M. Melton
Docket No.	:	S0974-P08818US08	

PRELIMINARY AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

FILED VIA PATENT CENTER

February 23, 2024

INTRODUCTION

This Preliminary Amendment is submitted for entry prior to a first Office Action on the merits in the above-identified application. Please amend the application as follows:

AMENDMENTS TO THE CLAIMS

Please cancel claims 1-18, and insert new claims 19 - 57, such that the status of the claims is as follows:

1-18. (Cancelled)

19. (New) A computer program product for controlling a driving mode of a self-driving vehicle (SDV), the computer program product comprising a non-transitory computer readable storage medium having instructions that, when executed, cause at least one data processing apparatus to perform operations comprising:

receiving a plurality of sensor readings from a system of sensors, wherein the system of sensors comprises: a steering wheel sensor, a speedometer, a GPS sensor, and a camera;

determining a competence level of a human driver using one or more of the sensor readings;

determining a competence level of the SDV using one or more of the sensor readings;

comparing the competence level of the human driver to a first threshold;

comparing the competence level of the human driver to a second threshold, wherein the second threshold is different from the first threshold;

determining that no fault has occurred when the competence level of the human driver exceeds the first threshold and exceeds the second threshold;

determining that a first fault has occurred when the competence level of the human driver exceeds the second threshold and is below the first threshold;

determining that a second fault has occurred when the competence level of the human driver is below the first threshold and is below the second threshold;

determining, using a fault remediation table, a first corrective action associated with the first fault, wherein the first corrective action comprises sounding a warning sound and displaying an icon on a display screen;

determining, using the fault remediation table, a second corrective action associated with

the second fault, wherein the second corrective action comprises decreasing a speed of the SDV and transferring driver controls to manual control;

autonomously controlling the driver controls without requiring the human driver to control the driver controls when no fault has occurred, wherein the driver controls comprise: engine throttle, steering mechanism, and braking system;

taking the first corrective action when the first fault has occurred; and

taking the second corrective action when the second fault has occurred.

20. (New) The computer program product of claim 19, further comprising:

determining the competence level of the human driver comprises using a weighted voting system with a first plurality of inputs and a first plurality of weights, wherein:

the first plurality of inputs comprises one or more of the sensor readings;

at least one of the first plurality of inputs is multiplied by a weight from among the first plurality of weights, wherein the first plurality of weights are based on first active learning data, the first active learning data comprising information about a first cohort of human drivers of other SDVs;

determining the competence level of the SDV comprises using the weighted voting system with a second plurality of inputs and a second plurality of weights, wherein:

the second plurality of inputs comprises one or more of the sensor readings;

the second plurality of inputs comprises at least one sensor reading that is not in the first plurality of inputs;

the first plurality of inputs comprises at least one sensor reading that is not in the second plurality of inputs; and

at least one of the second plurality of inputs is multiplied by a weight from among the second plurality of weights, wherein the second plurality of weights are based on second active learning data, the second active learning data comprising condition data from a second cohort of other SDVs, wherein the condition data shares one or more traits with a current condition of a roadway on which the SDV is currently traveling.

21. (New) The computer program product of claim 20, further comprising:

when no fault has occurred, autonomously maintaining a buffer of space from other vehicles around the SDV without requiring the human driver to control the driver controls;

obtaining the first plurality of weights by querying a database; and

obtaining the second plurality of weights by querying the database.

22. (New) The computer program product of claim 21, further comprising:

tracking a number of times the first fault has occurred; and

determining the competence level of the human driver using the number of times the first fault has occurred.

23. (New) The computer program product of claim 21, further comprising:

tracking a length of time during which the first fault has occurred; and

determining the competence level of the human driver using the length of time during which the first fault has occurred.

24. (New) The computer program product of claim 19, further comprising:

determining, using one or more of the sensor readings, whether the SDV is travelling on a first roadway type or a second roadway type of a plurality of roadway types;

determining the competence level of the SDV comprises determining whether the SDV is currently operating in a first autonomous mode of a plurality of autonomous modes;

determining that a third fault has occurred when the SDV is currently travelling on the second roadway type and the competence level of the SDV is below a third threshold; and

determining, using the fault remediation table, a third corrective action associated with the third fault, wherein the third corrective action comprises transferring the driver controls to manual control.

25. (New) The computer program product of claim 24, further comprising:

the first roadway type comprises a public highway;

the second roadway type does not comprise a public highway;

operating in the first autonomous mode comprises autonomously controlling the driver controls without requiring the human driver to control the driver controls; and

determining the competence level of the SDV comprises determining that the competence level of the SDV is below the third threshold when the SDV is not currently operating in the first autonomous mode.

26. (New) The computer program product of claim 19, further comprising:

sensing an operational state of a first camera sensor;

determining, using a weighted voting system with a first plurality of inputs and a first plurality of weights, whether the first camera sensor is currently experiencing an operational anomaly;

the first plurality of inputs comprises sensor readings from the first camera sensor;

at least one of the first plurality of inputs is multiplied by a weight from among the first plurality of weights, wherein the first plurality of weights are based on first active learning data, the first active learning data comprising information about a cohort of other SDVs experiencing a camera sensor operational anomaly;

determining that a third fault has occurred when the first camera sensor is currently experiencing an operational anomaly.

27. (New) The computer program product of claim 26, further comprising:

determining the competence level of the human driver comprises using the weighted voting system with a second plurality of inputs and a second plurality of weights, wherein:

the second plurality of inputs comprises one or more of the sensor readings;

at least one of the second plurality of inputs is multiplied by a weight from among the second plurality of weights, wherein the second plurality of weights are based on second active

learning data, the second active learning data comprising sensor readings about a first cohort of human drivers of other SDVs;

determining the competence level of the SDV comprises using the weighted voting system with a third plurality of inputs and a third plurality of weights, wherein:

the third plurality of inputs comprises one or more of the sensor readings;

the third plurality of inputs comprises at least one sensor reading that is not in the first plurality of inputs and is not in the second plurality of inputs;

the second plurality of inputs comprises at least one sensor reading that is not in the first plurality of inputs and is not in the third plurality of inputs; and

at least one of the third plurality of inputs is multiplied by a weight from among the third plurality of weights, wherein the third plurality of weights are based on third active learning data, the third active learning data comprising sensor readings about condition data from a second cohort of other SDVs, wherein the condition data shares one or more traits with a current condition of a roadway on which the SDV is currently traveling.

28. (New) A self-driving vehicle (SDV) comprising:

a sensor system having a plurality of sensors, comprising:

a first camera;

a second camera;

a sensor configured to detect input from a steering wheel;

a GPS sensor;

a thermometer; and

a speedometer;

a display that is capable of displaying:

a reading from the GPS sensor;

a reading from the thermometer; and

a reading from the speedometer;

vehicle controls comprising: an engine throttle, a steering mechanism, and a braking

system;

a non-transitory computer readable storage medium comprising a first plurality of weights, and the first plurality of weights comprising first active learning data from a first cohort of other SDVs;

the non-transitory computer readable storage medium comprises a second plurality of weights, and the second plurality of weights comprising second active learning data from the first cohort of other SDVs;

the non-transitory computer readable storage medium comprises a fault remediation table comprising a first quota, a second quota, a first corrective action, and a second corrective action;

a computer system comprising a processor coupled to the non-transitory computer readable storage medium and program code, the program code readable and executable by the processor, wherein the computer system is capable of performing operations comprising:

receiving a first plurality of inputs comprising readings from the first camera and the sensor configured to detect input from the steering wheel;

receiving a second plurality of inputs comprising readings from the second camera and the speedometer;

determining a first weighted voting result comprising multiplying a first input from among the first plurality of inputs by a weight from among the first plurality of weights;

determining a second weighted voting result comprising multiplying a second input from among the second plurality of inputs by a weight from among the second plurality of weights;

determining a competence level of a human driver using the first weighted voting result;

autonomously maintaining a buffer of space from other vehicles around the SDV using the vehicle controls and the second weighted voting result;

determining that a first fault has occurred when the competence level of the human driver is below the first quota; and

taking the first corrective action when the first fault has occurred.

29. (New) The SDV of claim 28, further comprising:

the computer system is further capable of performing operations comprising:

recording a number of times the first fault has occurred;

determining that a second fault has occurred when the number of times the first fault has occurred exceeds the second quota; and

taking the second corrective action when the second fault has occurred.

30. (New) The SDV of claim 29, further comprising:

the computer system is further capable of performing operations comprising:

taking the first corrective action comprising sounding a warning sound and displaying an icon on a display screen; and

taking the second corrective action comprising decreasing a speed of the SDV and transferring driver controls to manual control.

31. (New) The SDV of claim 28, further comprising:

the computer system is further capable of performing operations comprising:

recording a duration of time during which the first fault has occurred;

determining that a second fault has occurred when the duration of time during which the first fault has occurred exceeds the second quota; and

taking the second corrective action when the second fault has occurred.

32. (New) The SDV of claim 31, further comprising:

the computer system is further capable of performing operations comprising:

taking the first corrective action comprising sounding a warning sound and displaying an icon on a display screen; and

taking the second corrective action comprising decreasing a speed of the SDV and transferring driver controls to manual control.

33. (New) A self-driving vehicle (SDV) comprising:

a sensor system having a plurality of sensors, comprising:

a first camera;

a second camera;

a sensor configured to detect input from a steering wheel;

a GPS sensor; and

a speedometer;

vehicle controls comprising: an engine throttle, a steering mechanism, a turn signal, and a braking system;

a non-transitory computer readable storage medium comprising:

a first plurality of weights;

a second plurality of weights; and

a fault remediation table comprising:

a first fault state;

a first corrective action associated with the first fault state;

a second fault state;

a second corrective action associated with the second fault state;

a third fault state; and

a third corrective action associated with the third fault state;

a computer system comprising a processor coupled to the non-transitory computer readable storage medium and program code, the program code readable and executable by the processor, wherein the computer system is capable of:

receiving a sensor reading from the system of sensors;

operating the vehicle controls;

receiving a first plurality of inputs, comprising readings from the first camera and the sensor configured to detect input from the steering wheel;

receiving a second plurality of inputs, comprising readings from the second camera;

generating a human driver profile;

generating a control processor profile;

taking the first corrective action when the first fault state has occurred;

taking the second corrective action when the second fault state has occurred; and

taking the third corrective action when the third fault state has occurred.

34. (New) The SDV of claim 33, further comprising:

the computer system is further capable of:

generating the human driver profile comprising using a human driver competence level;

generating the control processor profile comprising determining whether the computer system is currently operating in a first autonomous mode, a second autonomous mode, or a manual mode;

while operating in the first autonomous mode, autonomously maintaining a buffer of space from other vehicles around the SDV using the vehicle controls, without requiring the human driver to control the vehicle controls;

while operating in the second autonomous mode, autonomously controlling the engine throttle and the breaking system while the human driver controls the turn signal; and

while operating in the manual mode, allowing the human driver to control the vehicle controls.

35. (New) The SDV of claim 34, further comprising::

the first plurality of weights comprises first active learning data from a first cohort of other SDVs;

the second plurality of weights comprises second active learning data from a second cohort of other SDVs;

the computer system is further capable of:

generating a first weighted voting result comprising multiplying an input from among the first plurality of inputs by a weight from among the first plurality of weights; and

generating a second weighted voting result comprising multiplying an input from among the second plurality of inputs by a weight from among the second plurality of weights.

36. (New) The SDV of claim 35, further comprising::

the computer system is further capable of:

determining a length of time during which the sensor configured to detect input from the steering wheel has not detected an input from the human driver;

determining that the first fault state has occurred when the length of time exceeds a first threshold;

taking the first corrective action comprising sounding a warning sound and displaying an image on a display screen;

determining that the second fault state has occurred when the length of time exceeds a second threshold;

taking the second corrective action comprising switching to the manual mode;

determining, using the second weighted voting result, whether the SDV is currently traveling on a first roadway type or a second roadway type;

determining that the third fault state has occurred when the computer system is operating in the second autonomous mode and the SDV is currently traveling on the second roadway type; and

taking the third corrective action comprising switching to the manual mode.

37. (New) The SDV of claim 36, further comprising:

the first roadway type comprises a public highway; and

the second roadway type comprises a public street.

38. (New) The SDV of claim 33, further comprising:

the first plurality of weights comprises first active learning data from a first cohort of other SDVs;

the second plurality of weights comprises second active learning data from a second cohort of other SDVs;

the computer system is further capable of:

generating a first weighted voting result comprising multiplying an input from among the first plurality of inputs by a weight from among the first plurality of weights; and

generating a second weighted voting result comprising multiplying an input from among the second plurality of inputs by a weight from among the second plurality of weights.

39. (New) The SDV of claim 38, further comprising:

a display that is capable of displaying a position of another vehicle relative to the SDV;

the computer system is further capable of:

determining the position of another vehicle relative to the SDV using the second weighted voting result; and

autonomously maintaining a buffer of space from other vehicles around the SDV using the vehicle controls and the second weighted voting result.

40. (New) The SDV of claim 39, further comprising:

the computer system is further capable of:

determining a length of time during which the sensor configured to detect input from a steering wheel has not detected input from the human driver;

determining that the first fault state has occurred when the length of time exceeds a first threshold;

taking the first corrective action comprising sounding a warning sound and displaying an alert on a display screen; and

determining that the second fault state has occurred when a number of times the first fault state has occurred exceeds a second threshold.

41. (New) The SDV of claim 40, further comprising:

the computer system is further capable of:

determining, using the control processor profile, whether the computer system is currently operating in a first autonomous mode, a second autonomous mode, or a manual mode;

while operating in the first autonomous mode, autonomously maintaining a buffer of space from other vehicles around the SDV using the vehicle controls and the second weighted voting result, without requiring the human driver to control the vehicle controls;

while operating in the second autonomous mode, autonomously controlling the engine throttle and the breaking system while the human driver controls the turn signal;

while operating in the manual mode, allowing the human driver to control the vehicle controls; and

taking the second corrective action comprising the computer system switching from the first autonomous mode to the manual mode.

42. (New) The SDV of claim 41, further comprising:

the computer system is further capable of:

generating the human driver profile comprises using active learning data from a current human driver of the SDV;

determining that the third fault state has occurred using the human driver profile; and

taking the third corrective action comprising disabling the first autonomous mode.

43. (New) The SDV of claim 42, further comprising:

the fault remediation table further comprises a fourth fault state and a fourth corrective action associated with the fourth fault state;

the computer system is further capable of:

generating the human driver profile using active learning data from a current human driver of the SDV;

determining that the fourth fault state has occurred using the human driver profile; and taking the fourth corrective action comprising disabling the first autonomous mode.

44. (New) The SDV of claim 43, further comprising:

the fault remediation table further comprises a fourth fault state and a fourth corrective action associated with the fourth fault state;

the computer system is further capable of: generating the human driver profile using active learning data from a current human driver of the SDV;

determining that the fourth fault state has occurred using the human driver profile; and taking the fourth corrective action comprising the computer system disabling the first autonomous mode.

45. (New) The SDV of claim 41, further comprising:

the computer system is further capable of:

determining the third fault state has occurred comprising determining a current weather condition of a roadway on which the SDV is currently traveling; and

taking the third corrective action comprising switching from the first autonomous mode to the manual mode.

46. (New) The SDV of claim 41, further comprising:

the computer system is further capable of:

determining the third fault state has occurred comprising detecting an absence of lane markings on a roadway on which the SDV is currently traveling; and

taking the third corrective action comprising switching from the first autonomous mode to the manual mode.

47. (New) A computer program product for controlling a driving mode of a self-driving vehicle (SDV), the computer program product comprising a non-transitory computer readable storage medium having program code embodied therewith, the program code readable and executable by a processor to perform a method comprising:

receiving a plurality of sensor readings from a system of sensors, the system of sensors comprising:

a camera directed at a human driver;

a camera directed away from the SDV;

a sensor configured to detect input from a steering wheel;

a GPS sensor;

a thermometer; and

a speedometer;

displaying, on a display screen, one or more sensor readings of the sensor readings;

determining, using one or more sensor readings of the sensor readings, a position of another vehicle currently on a roadway;

determining a competence level of the SDV using one or more of the sensor readings, wherein the competence level of the SDV is a function of a degree of uncertainty in the determined position of the other vehicle;

autonomously controlling driver controls without requiring the human driver to control the driver controls, wherein the driver controls comprise: engine throttle, a steering mechanism, and braking system;

autonomously maintaining a buffer of space between the SDV and the other vehicle;

determining a competence level of a human driver using one or more of the sensor readings;

determining, using a fault remediation table, a first corrective action associated with a first human competence level, wherein the first corrective action comprises sounding a warning sound and displaying an icon on a display screen;

determining, using the fault remediation table, a second corrective action associated with

a second human competence level, wherein the second corrective action comprises decreasing a speed of the SDV and transferring driver controls to manual control;

taking the first corrective action when the competence level of the human driver satisfies a first competence quota; and

taking the second corrective action when the competence level of the human driver satisfies a second competence quota.

48. (New) The computer program product of claim 47, further comprising:

displaying, on the display screen, a graphical representation of the position of the other vehicle relative to the SDV and a graphical representation of the competence level of the SDV.

49. (New) The computer program product of claim 47, further comprising:

determining the competence level of the human driver comprises using a weighted voting system with a first plurality of inputs and a first plurality of weights, wherein:

the first plurality of inputs comprises one or more sensor readings of the sensor readings;

at least one of the first plurality of inputs is multiplied by a weight from among the first plurality of weights, wherein the first plurality of weights are based on first active learning data, the first active learning data comprising information about a first cohort of human drivers of other SDVs; and

determining the competence level of the SDV comprises using the weighted voting system with a second plurality of inputs and a second plurality of weights, wherein:

the second plurality of inputs comprises one or more of the sensor readings;

the second plurality of inputs comprises at least one sensor reading that is not in the first plurality of inputs; and

at least one of the second plurality of inputs is multiplied by a weight from among the second plurality of weights, wherein the second plurality of weights are based on second active learning data, the second active learning data comprising condition data

from a second cohort of other SDVs, wherein the condition data shares one or more traits with a current condition of the roadway on which the SDV is currently traveling.

50. (New) The computer program product of claim 49, further comprising:

determining, using one or more sensor readings of the sensor readings, the position of a lane marking on the roadway;

determining, using one or more sensor readings of the sensor readings, the position of a traffic signal; and

displaying, on the display screen, a simultaneous graphical representation of the position of the other vehicle, the position of the lane marking on the roadway, the position of the traffic signal, and the competence level of the SDV.

51. (New) The computer program product of claim 50, further comprising:

autonomously changing lanes without requiring the human driver to control the driver controls;

autonomously engaging a turn signal of the SDV prior to autonomously changing lanes without requiring the human driver to control the turn signal;

determining, using the fault remediation table, a third corrective action associated with a first SDV competence level; and

taking the third corrective action when the competence level of the SDV is equivalent to or below the first SDV competence level.

52. (New) The computer program product of claim 51, further comprising:

the third corrective action comprises decreasing a speed of the SDV and transferring the driver controls to manual control; and

the competence level of the human driver is a function of a sensor reading from the camera directed at the human driver.

53. (New) The computer program product of claim 52, further comprising:

retrieving a human driver profile from a database;

determining, using the fault remediation table, a fourth corrective action associated with a first human driver profile quota, wherein the fourth corrective action comprises disabling an autonomous driving mode; and

taking the fourth corrective action when the human driver profile is equivalent to or below the first human driver profile quota.

54. (New) The computer program product of claim 53, further comprising:

the human driver profile is a function of a previous sensor reading from the camera directed at the human driver;

the human driver profile is a function of a previous sensor reading from the camera directed away from the SDV;

the human driver profile is a function of a previous sensor reading from the sensor configured to detect input from the steering wheel; and

the human driver profile is a function of a previous sensor reading from the speedometer.

55. (New) A computer program product for controlling a driving mode of a self-driving vehicle (SDV), the computer program product comprising a non-transitory computer readable storage medium having program code embodied therewith, the program code readable and executable by a processor to perform a method comprising:

receiving one or more sensor readings from a system of sensors, wherein the system of sensors comprises one or more sensors that detect an operational state of the SDV, the one or more sensors comprising:

a camera directed away from the SDV;

a sensor configured to detect input from a steering wheel;

a GPS sensor;

a thermometer; and

a speedometer;

determining a competence level of a control processor as a function of the operational state of the SDV;

comparing the competence level of the control processor to a first threshold;

comparing the competence level of the control processor to a second threshold, wherein the first threshold is higher than the second threshold;

autonomously controlling driver controls without requiring a human driver to control the driver controls when the competence level of the control processor is above the first threshold;

determining a first fault has occurred when the competence level of the control processor is between the first threshold and the second threshold;

determining a second fault has occurred when the competence level of the control processor is below the second threshold; and

performing a corrective action listed in a fault remediation table, comprising:

displaying a warning message on a display screen when the first fault occurs; and

sounding a warning sound, displaying a warning message, displaying an icon on the display screen, and transferring the driver controls to manual control when the second fault occurs.

56. (New) The computer program product of claim 55, further comprising:

comparing the competence level of the control processor to a third threshold, wherein the third threshold is between the first threshold and the second threshold; and

determining a third fault has occurred when the competence level of the control processor is between the third threshold and the second threshold.

57. (New) The computer program product of claim 56, further comprising:

the operational state of the SDV comprises a current weather condition of a roadway on which the SDV is currently traveling; and

autonomously altering a route being taken by the SDV when the third fault occurs.

REMARKS

This Preliminary Amendment is submitted for entry prior to a first Office Action on the merits in this application. Consideration and allowance of all of the pending claims are respectfully requested.

The Commissioner is hereby authorized to charge any additional fee required under 37 C.F.R. 1.16, 1.17 or 1.492, or credit any overpayment, to Deposit Account No. 11-0982.

Respectfully submitted,

KINNEY & LANGE, P.A.

Date: February 23, 2024

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UNITED STATES PATENT AND TRADEMARK OFFICE

USPTO Automated Interview Request (AIR)

Mar 21 2024

This paper requesting to schedule and/or conduct an interview is appropriate because:

This submission is requested to be accepted as an authorization for this interview to communicate via the internet. Recognizing that Internet communications are not secure, I hereby authorize the USPTO to communicate with the undersigned concerning scheduling of the interview via video conference, instant messaging, or electronic mail, and to conduct the interview in accordance with office practice including video conferencing.

Name(s):
Ian MacKinnon

S-signature:
/Ian MacKinnon/

Registration Number:
34660

U.S. Application Number:
18222774

Confirmation Number:
9586

E-mail Address:
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Phone Number:
+1 6123377208

Proposed Time of Interview:
4-3-2024 2:00 PM ET

Alternative Proposed Time(s) of Interview:
4-11-2024 11:00 AM ET

Alternative Proposed Time(s) of Interview:
4-10-2024 3:00 PM ET

Prefered Interview Type:
Telephonic

I am the applicant or applicant's representative for this application.

Topic for Discussion:
Discuss new claims in Continuation.

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PATENT AND TRADEMARK OFFICE

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P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/222,774	**03/21/2024 04:42:45 PM Z ET**	**S0974-P08818US08**

Title of Invention

CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	9586	FILED BY	Ian MacKinnon
PATENT CENTER #	64787514	FILING DATE	07/17/2023
CUSTOMER #	164	FIRST NAMED INVENTOR	Michael S. Gordon
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
sb0439.pdf	2	Internet Communications Authorization	188 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
sb0439.pdf	FA103A6727C2039633639C5A6DFAC16DC0F1A4D47F809E711C7F619D82EB3BDF7A53C9FD81C1C4B64CE2AB0F85B563A1D54E720FDB456F932B3BA0D39CC660C8

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Doc Code: ECOMM.AUTH/ECOMM.WTDW
Doc Description: Internet Communications Authorization/Internet Communications Authorization Withdrawal

PTO/SB/439 (11-15)

AUTHORIZATION FOR INTERNET COMMUNICATIONS IN A PATENT APPLICATION OR REQUEST TO WITHDRAW AUTHORIZATION FOR INTERNET COMMUNICATIONS		
	Application No.	18/222,774
	Filing Date	7/17/2023
	First Named Inventor	Gordan
	Art Unit	3669
	Examiner Name	Todd Melton
	Practitioner Docket No.	

To: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

I. To authorize permission for Internet Communications.

[x] Recognizing that Internet communications are not secure, I hereby authorize the USPTO to communicate with the undersigned and practitioners in accordance with 37 CFR 1.33 and 37 CFR 1.34 concerning any subject matter of this application via video conferencing, instant messaging, or electronic mail. I understand that a copy of these communications will be made of record in the application file. (MPEP 502.03)

II. To withdraw authorization for Internet Communications.

[ ] The authorization given on _____, to the USPTO to communicate with the undersigned and any practitioner in accordance with 37 CFR 1.33 and 37 CFR 1.34 concerning any subject matter of this application via Internet communications such as video conferencing, instant messaging, or electronic mail is hereby withdrawn. I understand that the withdrawal is effective when approved rather than when received.

I am the

[ ] applicant.

[x] attorney or agent of record. Registration number 34660.

[ ] attorney or agent acting under 37 CFR 1.34. Registration number _____.

/Ian MacKinnon/	3/21/2024
Signature	Date
Ian MacKinnon	612-337-7208
Typed or printed name	Telephone Number

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Juristic entities must be represented by a patent practitioner (see 37 CFR 1.31, which is applicable to any paper filed on or after September 16, 2012, that is presented on behalf of a juristic entity, regardless of application filing date). Submit multiple forms if more than one signature is required, see below*.

[ ] * Total of _____ forms are submitted.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of References Cited	Application/Control No. 18/222,774	Applicant(s)/Patent Under Reexamination Gordon et al.	
	Examiner Todd Melton	Art Unit 3669	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-9454152-B2	2016-09-27	Kopetz; Hermann	B60W50/10	1/1
*	B	US-9650058-B2	2017-05-16	Schiek; Ulrich	B60W60/0053	1/1
*	C	US-10101742-B2	2018-10-16	Prokhorov; Danil V.	B60W40/02	1/1
	D					
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	L					
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*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in YYYY-MM-DD format are publication dates. Classifications may be US or foreign.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/222,774	Gordon et al.
	Examiner	**Art Unit**
	Todd Melton	3669

CPC - Searched*		
Symbol	**Date**	**Examiner**

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	**Date**	**Examiner**
see attached search history	04/18/2024	tm
US patent databases: CPC classification search	04/18/2024	tm
foreign patent databases: text searched by keywords	04/18/2024	tm
US patent databases: claims searched by keywords	04/18/2024	tm

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
B60W	50/12	04/18/2024	tm
B60W	40/06,08,10	04/18/2024	tm
B60W	60/0059	04/18/2024	tm

/TODD MELTON/ Primary Examiner, Art Unit 3669	

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Tesla EX1002 Page 3391

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/222,774	Gordon et al.
	Examiner	**Art Unit**
	Todd Melton	3669

CPC

Symbol					Type	Version
B60W	/	50	/	12	F	2013-01-01
B60W	/	50	/	0098	I	2013-01-01
B60W	/	60	/	0059	I	2020-02-01
G05D	/	1	/	0061	I	2024-01-01
B60W	/	40	/	06	I	2013-01-01
B60W	/	40	/	08	I	2013-01-01
B60W	/	40	/	10	I	2013-01-01
B62D	/	1	/	286	A	2013-01-01
B62D	/	6	/	007	A	2013-01-01
B60W	/	2050	/	0095	A	2013-01-01
B60W	/	2552	/	00	A	2020-02-01
B60W	/	2555	/	20	A	2020-02-01
B60W	/	2756	/	10	A	2020-02-01
B60W	/	2050	/	0072	A	2013-01-01
B60W	/	2556	/	10	A	2020-02-01
B60W	/	2040	/	0809	A	2013-01-01
B60W	/	2510	/	30	A	2013-01-01
B60W	/	2540	/	22	A	2013-01-01

CPC Combination Sets

Symbol					Type	Set	Ranking	Version
	/		/					

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 39	
/TODD MELTON/ Primary Examiner, Art Unit 3669 (Primary Examiner)	18 April 2024 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 5

U.S. Patent and Trademark Office

Part of Paper No.: 20240418

IPR2025-01035
Tesla EX1002 Page 3392

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/222,774	Gordon et al.
	Examiner	**Art Unit**
	Todd Melton	3669

INTERNATIONAL CLASSIFICATION				
CLAIMED				
B60W50/12	/	50	/	12
B60W50/00	/	50	/	00
B60W60/00	/	60	/	00
B60W40/06	/	40	/	06
B60W40/08	/	40	/	08
B60W40/10	/	40	/	10

NON-CLAIMED				
G05D1/00	/	1	/	00
B62D1/28	/	1	/	28
B62D6/00	/	6	/	00

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 39	
/TODD MELTON/ Primary Examiner, Art Unit 3669 (Primary Examiner)	18 April 2024 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 5

U.S. Patent and Trademark Office Part of Paper No.: 20240418

IPR2025-01035
Tesla EX1002 Page 3393

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/222,774	Gordon et al.
	Examiner	**Art Unit**
	Todd Melton	3669

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	19	10	28	19	37	28	46	37	55						
2	20	11	29	20	38	29	47	38	56						
3	21	12	30	21	39	30	48	39	57						
4	22	13	31	22	40	31	49								
5	23	14	32	23	41	32	50								
6	24	15	33	24	42	33	51								
7	25	16	34	25	43	34	52								
8	26	17	35	26	44	35	53								
9	27	18	36	27	45	36	54								

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 39	
/TODD MELTON/ Primary Examiner, Art Unit 3669 (Primary Examiner)	18 April 2024 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 5

U.S. Patent and Trademark Office Part of Paper No.: 20240418

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	1	18/222774 [app]	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/12 04:32 PM
L2	12	"57964734" [fmid]	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/12 04:32 PM
L4	377	("5975791" | "6064970" | "6326903" | "6502035" | "6587043" | "6622082" | "6731202" | "7124088" | "7877269" | "7894951" | "8031062" | "8078349" | "8090598" | "8139109" | "8140358" | "8190322" | "8489434" | "8509982" | "8660734" | "8676466" | "8793046" | "8874305" | "8880270" | "8903591" | "8948955" | "8949016" | "8954217" | "8954252" | "8954261" | "8958943" | "8965621" | "8983705" | "8996224" | "9014905" | "9020697" | "9024787" | "9082239" | "9305411" | "9399472" | "20040199306" | "20050104745" | "20060106671" | "20060200379" | "20070100687" | "20080048850" | "20090248231" | "20100179720" | "20120277947" | "20130030657" | "20130261871" | "20140095214" | "20140129073" | "20140188999" | "20140195213" | "20140214255" | "20140222277" | "20140297116" | "20140310186" | "20140324268" | "20140358331" | "20140358353" | "20150006005" | "20150006014" | "20150035685" | "20150051778" | "20150066284" | "20150095190" |	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/12 04:33 PM

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L8	358	L7 AND vehicle [clm]	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/15 08:38 AM
L9	199	L8 AND (driver OR user OR operator) [clm]	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/15 08:52 AM
L13	0	(granite vehicle ventures) [aanm,as]	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/15 03:32 PM
L14	8	(slingshot iot) [aanm,as]	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/15 03:32 PM
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L16	1388	B60W60/0059 [cpc]	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/17 12:40 PM
L17	8687	B60W40/06,08,10 [cpc]	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/17 12:40 PM
L18	1242	B60W50/12 [cpc]	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/17 12:41 PM
L19	453	L16 AND (L17 OR L18)	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/17 12:41 PM
L20	200497	(vehicle OR car OR	(FIT (AT, AU, BR, CA,	ADJ	ON	ON	2024/04/18

		automobile) near2 (autonomous OR self-driving OR semiautonomous OR autonomously OR semiautonomously)	CH, CN, DE, EP, ES, FR, GB, IL, IT, JP, KR, NL, RU, SE, TW, WO))				02:12 PM
L21	1317	L20 AND (competence OR knowledge OR skill OR expertise) near2 (driver OR operator)	(FIT (AT, AU, BR, CA, CH, CN, DE, EP, ES, FR, GB, IL, IT, JP, KR, NL, RU, SE, TW, WO))	ADJ	ON	ON	2024/04/18 02:13 PM
L22	513	L21 AND (manual OR manually OR nonautonomous OR nonautonomously) near2 (vehicle OR car OR automobile OR driver OR operator)	(FIT (AT, AU, BR, CA, CH, CN, DE, EP, ES, FR, GB, IL, IT, JP, KR, NL, RU, SE, TW, WO))	ADJ	ON	ON	2024/04/18 02:15 PM
L23	877029	(vehicle OR car OR automobile) [ti,ab]	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/18 04:54 PM
L24	24990	L23 AND (autonomous OR self-driving OR semiautonomous OR autonomously OR semiautonomously) [ti,ab]	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/18 05:05 PM
L25	3059	L24 AND (driver OR operator) [ti,ab]	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/18 05:06 PM
L26	526	L25 AND (manual OR manual OR take over OR taking over OR nonautonomous OR nonautonomously) [ti,ab]	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/18 05:06 PM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N1	1013623	(vehicle OR car OR automobile) [clm]	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/18 05:46 PM
N2	37190	N1 AND (autonomous OR self-driving OR semiautonomous OR autonomously OR semiautonomously) [clm]	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/18 05:46 PM
N3	7916	N2 AND (driver OR operator) [clm]	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/18 05:47 PM
N4	152	N3 AND (competence OR competent OR competently OR skill OR skilled OR knowledge OR expertise) [clm]	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/18 05:48 PM

N5	1389	B60W60/0059 [cpc]	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/18 06:01 PM
N6	8705	B60W40/06,08,10 [cpc]	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/18 06:02 PM
N7	1243	B60W50/12 [cpc]	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/18 06:02 PM
N8	117	N5 AND N6 AND N7	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/04/18 06:02 PM

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Michael S. Gordon
	Art Unit	
	Examiner Name	
	Attorney Docket Number	S0974-P08818US08

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	4665395	A	1987-05-12	VAN	
	2	4908988	A	1990-03-20	YAMAMURA, et al.	
	3	5975791	A	1999-11-02	MCCULLOCH	
	4	6064970	A	2000-05-16	MCMILLAN, et al.	
	5	6201318	B1	2001-03-13	GUILLORY	
	6	6326903	B1	2001-12-04	GROSS, et al.	
	7	6393362	B1	2002-05-21	BURNS	
	8	6502035	B2	2002-12-31	LEVINE	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /TMM/

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	9	6587043	B1	2003-07-01	KRAMER	
	10	6622082	B1	2003-09-16	SCHMIDT, et al.	
	11	6704621	B1	2004-03-09	STEIN, et al.	
	12	6731202	B1	2004-05-04	KLAUS	
	13	6810312	B2	2004-10-26	JAMMU, et al.	
	14	7113867	B1	2006-09-26	STEIN	
	15	7124088	B2	2006-10-17	BAUER, et al.	
	16	7151996	B2	2006-12-19	STEIN	
	17	7580782	B2	2009-08-25	BREED, et al.	
	18	7769544	B2	2010-08-03	BLESENER, et al.	
	19	7877269	B2	2011-01-25	BAUER, et al.	

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	20	7894951	B2	2011-02-22	NORRIS, et al.	
	21	7979173	B2	2011-07-12	BREED	
	22	8031062	B2	2011-10-04	SMITH	
	23	8045455	B1	2011-10-25	AGRONOW, et al.	
	24	8078349	B1	2011-12-13	PRADA, et al.	
	25	8090598	B2	2012-01-03	BAUER, et al.	
	26	8139109	B2	2012-03-20	SCHMIEDEL, et al.	
	27	8140358	B1	2012-03-20	LING, et al.	
	28	8146703	B2	2012-04-03	BAUMANN, et al.	
	29	8152325	B2	2012-04-10	MCDERMOTT	
	30	8180322	B2	2012-05-15	NAKAE, et al.	

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	31	8346480	B2	2013-01-01	TREPAGNIER, et al.	
	32	8352112	B2	2013-01-08	MUDALIGE	
	33	8442854	B2	2013-05-14	LAWTON, et al.	
	34	8466807	B2	2013-06-18	MUDALIGE	
	35	8489434	B1	2013-07-16	OTIS, et al.	
	36	8509982	B2	2013-08-13	MONTEMERLO, et al.	
	37	8583365	B2	2013-11-12	JANG, et al.	
	38	8660734	B2	2014-02-25	ZHU, et al.	
	39	8676466	B2	2014-03-18	MUDALIGE	
	40	8678701	B1	2014-03-25	ALDASEM	
	41	8786461	B1	2014-07-22	DAUDELIN	

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	42	8793046	B2	2014-07-29	LOMBROZO, et al.	
	43	8810392	B1	2014-08-19	TELLER, et al.	
	44	8816857	B2	2014-08-26	NORDIN, et al.	
	45	8825258	B2	2014-09-02	CULLINANE, et al.	
	46	8849494	B1	2014-09-30	HERBACH, et al.	
	47	8874305	B2	2014-10-28	DOLGOV, et al.	
	48	8880270	B1	2014-11-04	FERGUSON, et al.	
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	50	8923890	B1	2014-12-30	WHITE, et al.	
	51	8924150	B2	2014-12-30	TSIMHONI, et al.	
	52	8948955	B2	2015-02-03	ZHU, et al.	

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	53	8949016	B1	2015-02-03	FERGUSON, et al.	
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	55	8954252	B1	2015-02-10	URMSON, et al.	
	56	8954261	B2	2015-02-10	DAS, et al.	
	57	8958943	B2	2015-02-17	BERTOSA, et al.	
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	64	9024787	B2	2015-05-05	ALSHINNAWI, et al.	
	65	9082239	B2	2015-07-14	RICCI	
	66	9090260	B2	2015-07-28	CLARKE, et al.	
	67	9120484	B1	2015-09-01	FERGUSON, et al.	
	68	9123049	B2	2015-09-01	HYDE, et al.	
	69	9145116	B2	2015-09-29	CLARKE, et al.	
	70	9150220	B2	2015-10-06	CLARKE, et al.	
	71	9156473	B2	2015-10-13	CLARKE, et al.	
	72	9170327	B2	2015-10-27	CHOE, et al.	
	73	9189897	B1	2015-11-17	STENNETH	
	74	9194168	B1	2015-11-24	LU, et al.	

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	75	9195895	B1	2015-11-24	KAPACH, et al.	
	76	9205835	B2	2015-12-08	STEIN, et al.	
	77	9207323	B2	2015-12-08	ZHU, et al.	
	78	9216745	B2	2015-12-22	BEARDSLEY, et al.	
	79	9218698	B2	2015-12-22	RICCI	
	80	9233688	B2	2016-01-12	CLARKE, et al.	
	81	9248832	B2	2016-02-02	HUBERMAN	
	82	9272709	B2	2016-03-01	BEN SHALOM	
	83	9286520	B1	2016-03-15	LO, et al.	
	84	9297641	B2	2016-03-29	STEIN	
	85	9305411	B2	2016-04-05	RICCI	

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	86	9317033	B2	2016-04-19	IBANEZ-GUZMAN, et al.	
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Signature	/Ian D. MacKinnon/	Date (YYYY-MM-DD)	2023-07-17
Name/Print	Ian D. MacKinnon	Registration Number	34,660

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	17	2605185	EP	A2	2013-06-19	MOBILEYE TECHNOLOGIES LIMITED		☐
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Signature	/Ian D. MacKinnon/	Date (YYYY-MM-DD)	2023-07-17
Name/Print	Ian D. MacKinnon	Registration Number	34,660

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Bibliographic Data

Application No: 18/222,774

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No | ☐ Met After Allowance

Verified and Acknowledged: /TODD MELTON/ (Examiner's Signature) | Initials

Title: CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
07/17/2023	701	3669	S0974-P08818US08
RULE			

APPLICANTS

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CONTINUING DATA

This application is a CON of 17374656 07/13/2021 PAT 11738765

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FOREIGN APPLICATIONS

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	Examiner Name	
	Attorney Docket Number	S0974-P08818US08

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CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

✓ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Ian D. MacKinnon/	Date (YYYY-MM-DD)	2023-07-17
Name/Print	Ian D. MacKinnon	Registration Number	34,660

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /TMM/

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /TMM/

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Michael S. Gordon
	Art Unit	
	Examiner Name	
	Attorney Docket Number	S0974-P08818US08

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	2014066721	WO	A3	2014-05-01	Cosmetic Technologies, LLC		
	2	111027420	CN	A	2020-04-17			X
	3	3640890	EP	A1	2020-04-22			☐

EFS Web 2.1.18

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /TMM/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	
	Filing Date	
	First Named Inventor	Michael S. Gordon
	Art Unit	
	Examiner Name	
	Attorney Docket Number	S0974-P08818US08

	4	3680818	EP	A1	2020-07-15			☐

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		

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EXAMINER SIGNATURE

Examiner Signature	/TODD MELTON/	Date Considered	04/16/2024

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /TMM/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Michael S. Gordon
	Art Unit	
	Examiner Name	
	Attorney Docket Number	S0974-P08818US08

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

✓ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Ian D. MacKinnon/	Date (YYYY-MM-DD)	2023-07-17
Name/Print	Ian D. MacKinnon	Registration Number	34,660

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /TMM/

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

164 7590 04/25/2024
KINNEY & LANGE, P.A.
333 S. 7TH ST., SUITE 2700
MINNEAPOLIS, MN 55402-2438

EXAMINER
MELTON, TODD M

ART UNIT	PAPER NUMBER
3669	

DATE MAILED: 04/25/2024

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/222,774	07/17/2023	Michael S. Gordon	S0974-P08818US08	9586

TITLE OF INVENTION: CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	07/25/2024

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 40% the amount of undiscounted fees, and micro entity fees are 20% the amount of undiscounted fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

164 7590 04/25/2024
KINNEY & LANGE, P.A.
333 S. 7TH ST., SUITE 2700
MINNEAPOLIS, MN 55402-2438

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/222,774	07/17/2023	Michael S. Gordon	S0974-P08818US08	9586

TITLE OF INVENTION: CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	07/25/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
MELTON, TODD M	3669	701-036000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1_____
2_____
3_____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑Issue Fee ❑Publication Fee (if required)

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via the USPTO patent electronic filing system ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

❑ Applicant asserting small entity status. See 37 CFR 1.27

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

❑ Applicant changing to regular undiscounted fee status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

IPR2025-01035
Tesla EX1002 Page 3500

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/222,774	07/17/2023	Michael S. Gordon	S0974-P08818US08	9586

164 7590 04/25/2024
KINNEY & LANGE, P.A.
333 S. 7TH ST., SUITE 2700
MINNEAPOLIS, MN 55402-2438

EXAMINER
MELTON, TODD M

ART UNIT	PAPER NUMBER
3669	

DATE MAILED: 04/25/2024

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

PTOL-85 (Rev. 11/23)

IPR2025-01035
Tesla EX1002 Page 3501

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to:

1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;
2) a federal, state, local, or international agency, in response to its request;
3) a contractor of the USPTO having need for the information in order to perform a contract;
4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;
5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;
6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;
7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;
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9) the Office of Personnel Management (OPM) for personnel research purposes; and
10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Notice of Allowability	Application No. 18/222,774	Applicant(s) Gordon et al.	
	Examiner Todd Melton	Art Unit 3669	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to the application received on 17 July 2023.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are 19-57 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some* c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☑ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/TODD MELTON/
Primary Examiner, Art Unit 3669

DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA. This Office action is in response to the application received on 17 July 2023. Claims 19-57 are pending.

Priority

The claims for the benefit of prior-filed applications under 35 U.S.C. 119(e) or under 35 U.S.C. 120, 121, 365(c), or 386(c) are acknowledged. The prior art of record in the parent applications has been reviewed.

Information Disclosure Statement

The IDSes received on 17 July 2023 have been considered.

Allowable Subject Matter

Claims 19-57 are allowed.

The following is an examiner's statement of reasons for allowance: whether alone or in combination, the prior art of record does not disclose or teach every limitation recited independent claims 19, 28, 33, 47 and 55. Claims 20-27, 29-32, 34-46, 48-54 and 56-57 are allowable at least for their dependence on claims 19, 28, 33, 47 or 55.

US 10,101,742 (Prokhorov) discloses a system for mixed autonomous and manual control of a vehicle, where the system analyzes the complexity of the driving environment when assigning weights to manual control inputs and autonomous control inputs.

US 9,650,058 (Schiek et al.) discloses a control system for an autonomous vehicle that varies the timing of transferring control to the human driver based on the driver's level of attentiveness.

US 9,454,152 (Kopetz) discloses a control system for an autonomous vehicle that allows manual control under appropriate conditions of driver engagement.

Any comments considered necessary must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Todd Melton whose telephone number is (571)270-3871. The examiner can normally be reached weekdays, 9:30am - 6:00pm (Eastern time). Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Navid Mehdizadeh can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: https://patentcenter.uspto.gov. Visit https://www.uspto.gov/patents/apply/patent-center for

more information about Patent Center and https://www.uspto.gov/patents/docx for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/TODD MELTON/
Primary Examiner, Art Unit 3669

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/222,774	**06/05/2024 02:33:38 PM Z ET**	**S0974-P08818US08**

Title of Invention

CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	9586	FILED BY	NICOLE CHAMBERS
PATENT CENTER #	65839401	FILING DATE	07/17/2023
CUSTOMER #	164	FIRST NAMED INVENTOR	Michael S. Gordon
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Ian MacKinnon

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
2024-06-05_PART-B_S0974-P08818US08.pdf	1	Issue Fee Payment (PTO-85B)	164 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
2024-06-05_PART-B_S0974-P08818US08.pdf	F7695CB7E347B26C30616AAD828A3D25673412A25B638838EE3EE070761FD3959525D47EBB04F670DF02EAB2339C41B9F0BCD380908452F79650867DC8C8F7E2

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized

by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES
PATENT AND TRADEMARK OFFICE

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Alexandria, VA 22313 - 1450
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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/222,774	**06/05/2024 02:33:38 PM Z ET**	**S0974-P08818US08**

Title of Invention

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Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	9586	FILED BY	NICOLE CHAMBERS
PATENT CENTER #	65839401	AUTHORIZED BY	Ian MacKinnon
CUSTOMER #	164	FILING DATE	07/17/2023
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Michael S. Gordon

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 110982	**E202465E34205890**	**Ian MacKinnon**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1501	UTILITY ISSUE FEE	1200.00	1	1200.00
			TOTAL AMOUNT:	**$1,200.00**

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

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If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage

submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

164 7590 04/25/2024
KINNEY & LANGE, P.A.
333 S. 7TH ST., SUITE 2700
MINNEAPOLIS, MN 55402-2438

FILED VIA PATENT CENTER

Ian D. MacKinnon	(Typed or printed name)
/Ian D. MacKinnon/	(Signature)
June 5, 2024	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/222,774	07/17/2023	Michael S. Gordon	S0974-P08818US08	9586

TITLE OF INVENTION: CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	07/25/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
MELTON, TODD M	3669	701-036000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Kinney & Lange, P. A.
2
3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: Granite Vehicle Ventures LLC

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Carrollton, TX

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ☒ Corporation or other private group entity ❑ Government

4a. Fees submitted: ☒ Issue Fee ❑ Publication Fee (if required)

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

☒ Electronic Payment via the USPTO patent electronic filing system ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 110982

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

❑ Applicant asserting small entity status. See 37 CFR 1.27

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

❑ Applicant changing to regular undiscounted fee status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Ian D. MacKinnon/ Date June 5, 2024

Typed or printed name Ian D. MacKinnon Registration No. 34,660

PTOL-85 Part B (11/23) Approved for use through 03/31/2026 OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

UNITED STATES PATENT AND TRADEMARK OFFICE

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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/222,774	07/16/2024	12037004	S0974-P08818US08	9586

164 7590 06/26/2024
KINNEY & LANGE, P.A.
333 S. 7TH ST., SUITE 2700
MINNEAPOLIS, MN 55402-2438

ISSUE NOTIFICATION

The projected patent number and issue date are specified above. The patent will issue electronically. The electronically issued patent is the official patent grant pursuant to 35 U.S.C. § 153. The patent may be accessed on or after the issue date through Patent Center at https://patentcenter.uspto.gov/. The patent will be available in both the public and the private sides of Patent Center. Further assistance in electronically accessing the patent, or about Patent Center, is available by calling the Patent Electronic Business Center at 1-888-217-9197.

The USPTO is implementing electronic patent issuance with a transition period, during which period the USPTO will mail a ceremonial paper copy of the electronic patent grant to the correspondence address of record. Additional copies of the patent (i.e., certified and presentation copies) may be ordered for a fee from the USPTO's Certified Copy Center at https://certifiedcopycenter.uspto.gov/index.html. The Certified Copy Center may be reached at (800)972-6382.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Center (https://patentcenter.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

INVENTOR(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional inventors):

Michael S. Gordon, Yorktown Heights, NY;
James R. Kozloski, New Fairfield, CT;
Ashish Kundu, New York, NY;
Peter K. Malkin, Ardsley, NY;
Clifford A. Pickover, Yorktown Heights, NY;

APPLICANT(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional applicants):

GRANITE VEHICLE VENTURES LLC, CARROLLTON, TX;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/222,774	07/17/2023	Michael S. Gordon	S0974-P08818US08	9586

164 7590 07/16/2024
KINNEY & LANGE, P.A.
333 S. 7TH ST., SUITE 2700
MINNEAPOLIS, MN 55402-2438

EXAMINER
MELTON, TODD M

ART UNIT	PAPER NUMBER
3669	

NOTIFICATION DATE	DELIVERY MODE
07/16/2024	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

lbosley@kinney.com
uspatdocket@kinney.com

PTOL-90A (Rev. 04/07)

APPLICATION NO.	ISSUE DATE	PATENT NO.
18/222,774	16-Jul-2024	12037004

KINNEY & LANGE, P.A.
333 S. 7TH ST., SUITE 2700
MINNEAPOLIS, MN 55402-2438

EGRANT NOTIFICATION

Your electronic patent grant (eGrant) is now available, which can be accessed via Patent Center at https://patentcenter.uspto.gov

The electronic patent grant is the official patent grant under 35 U.S.C. 153. For more information, please visit https://www.uspto.gov/electronicgrants