

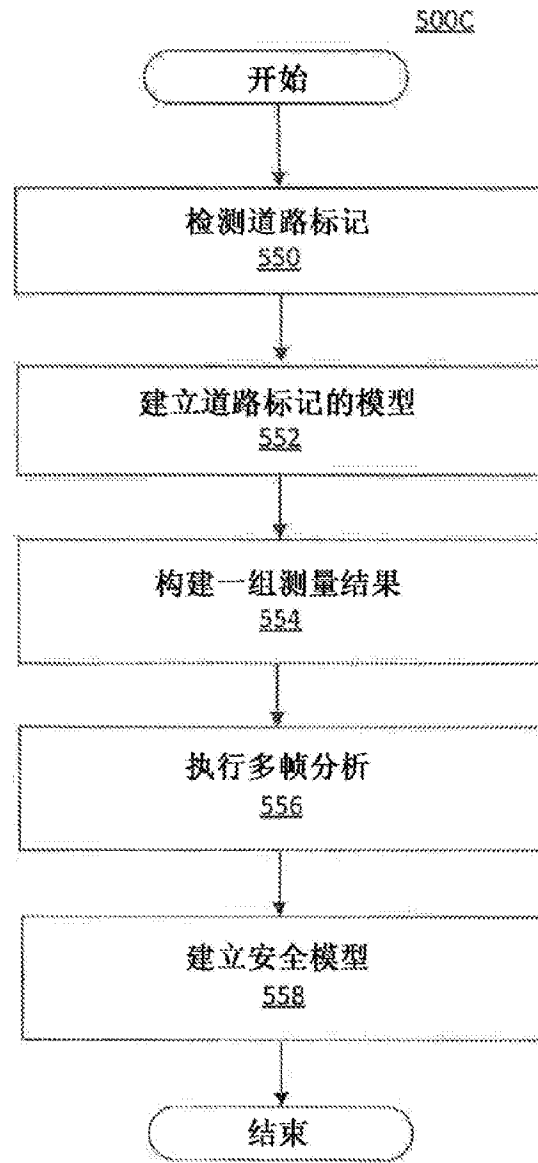


图5C

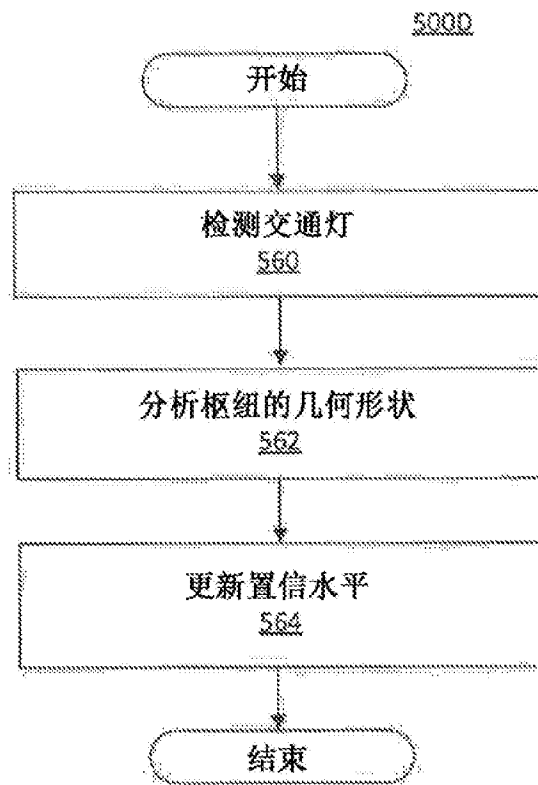


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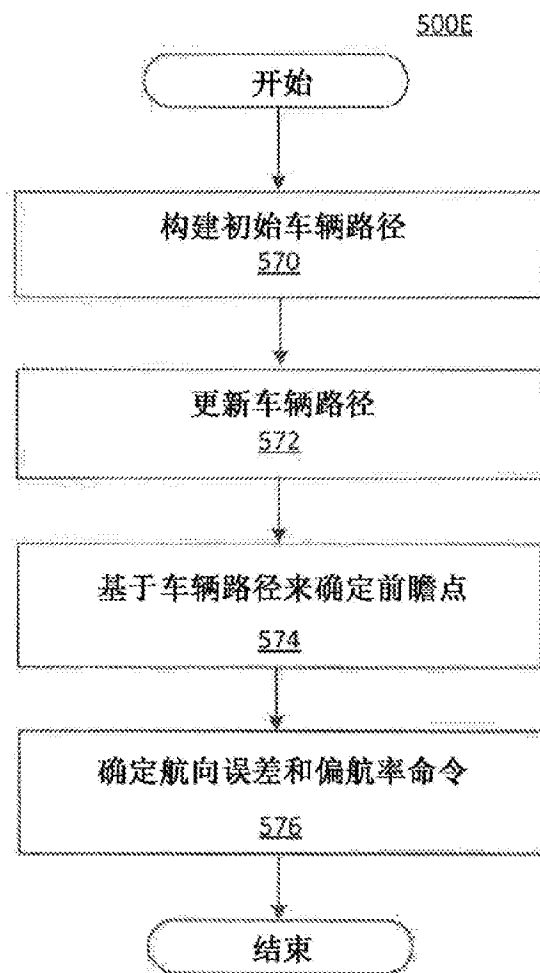


图5E

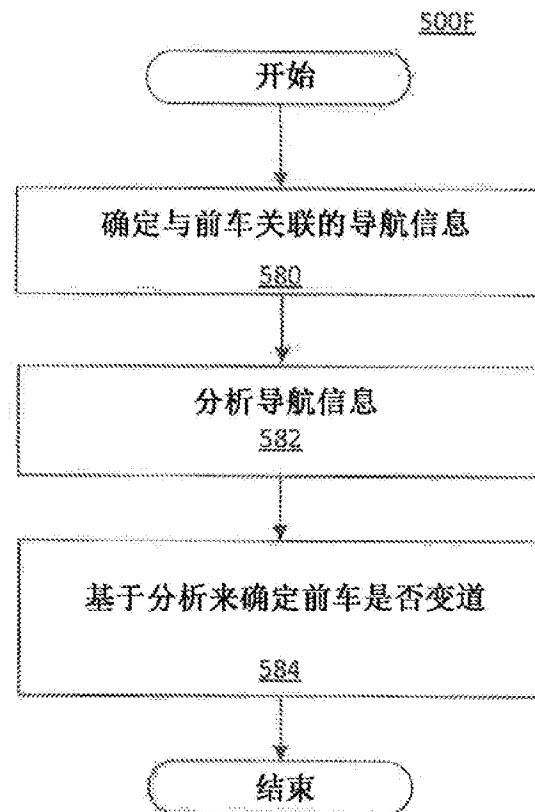


图5F

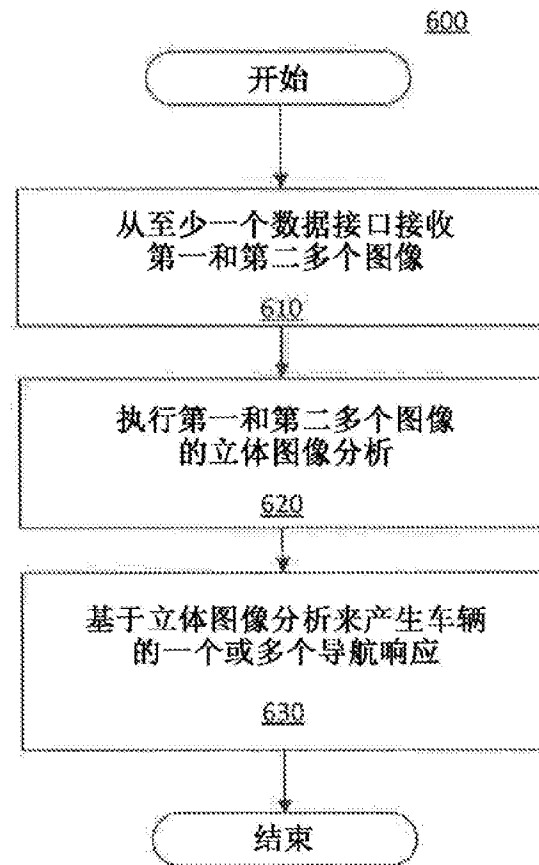


图6

700

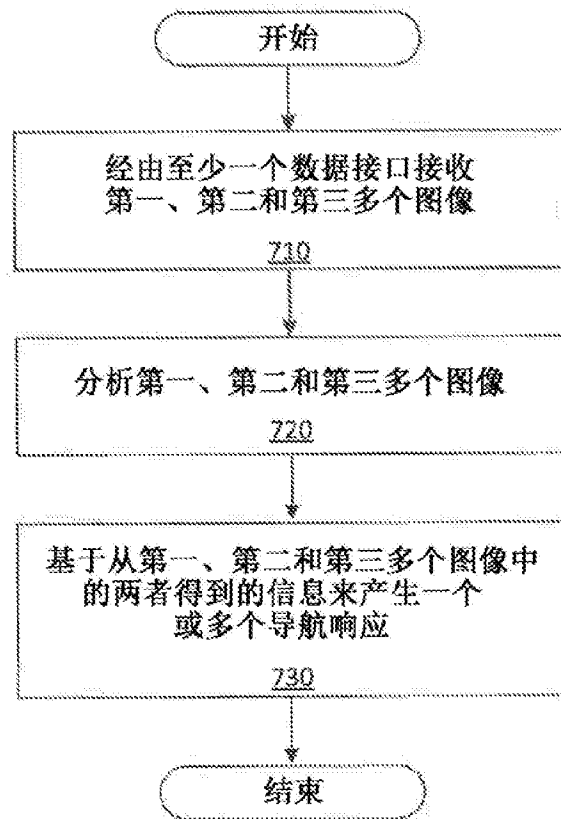


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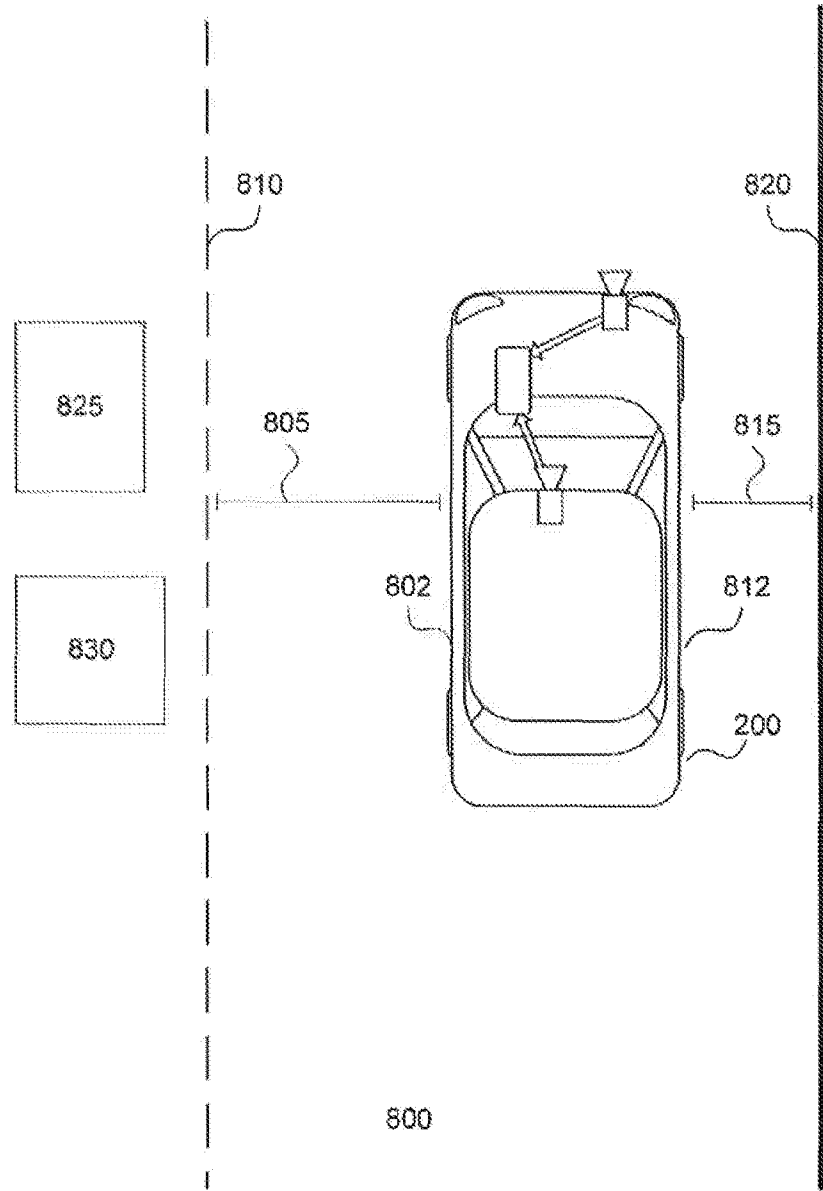


图8A

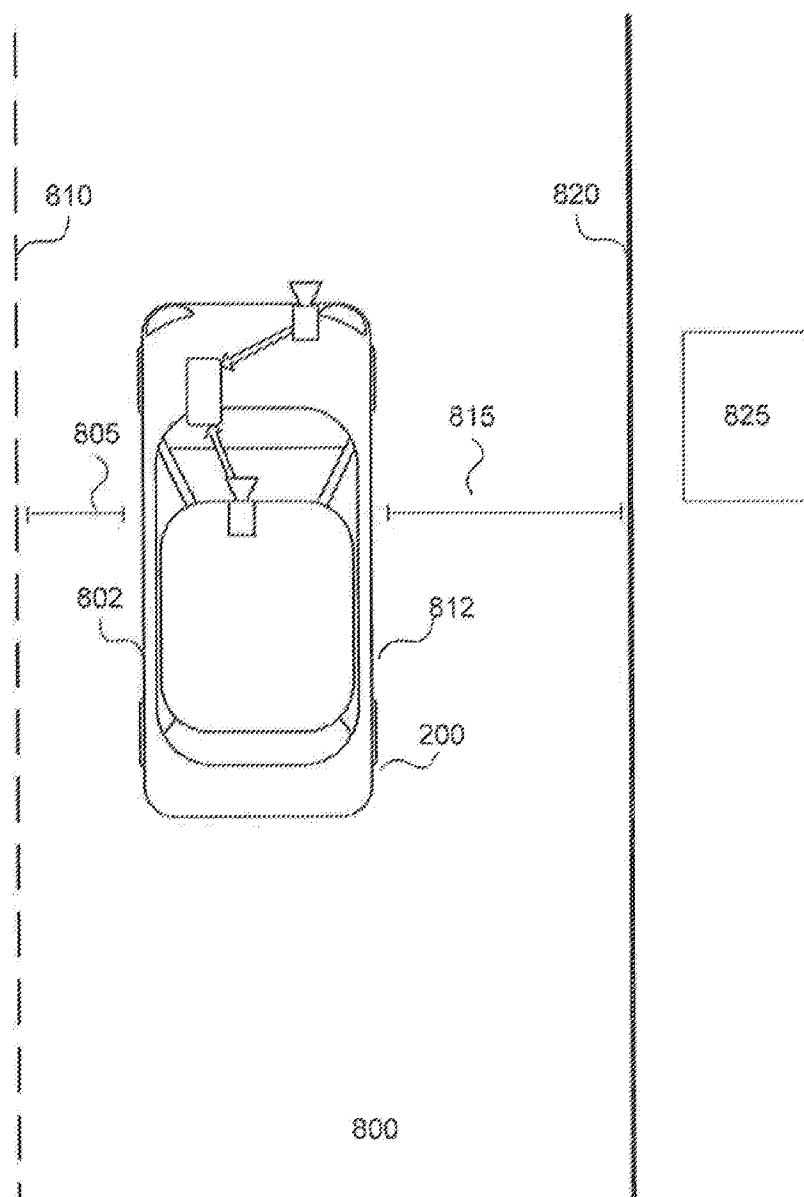


图8B

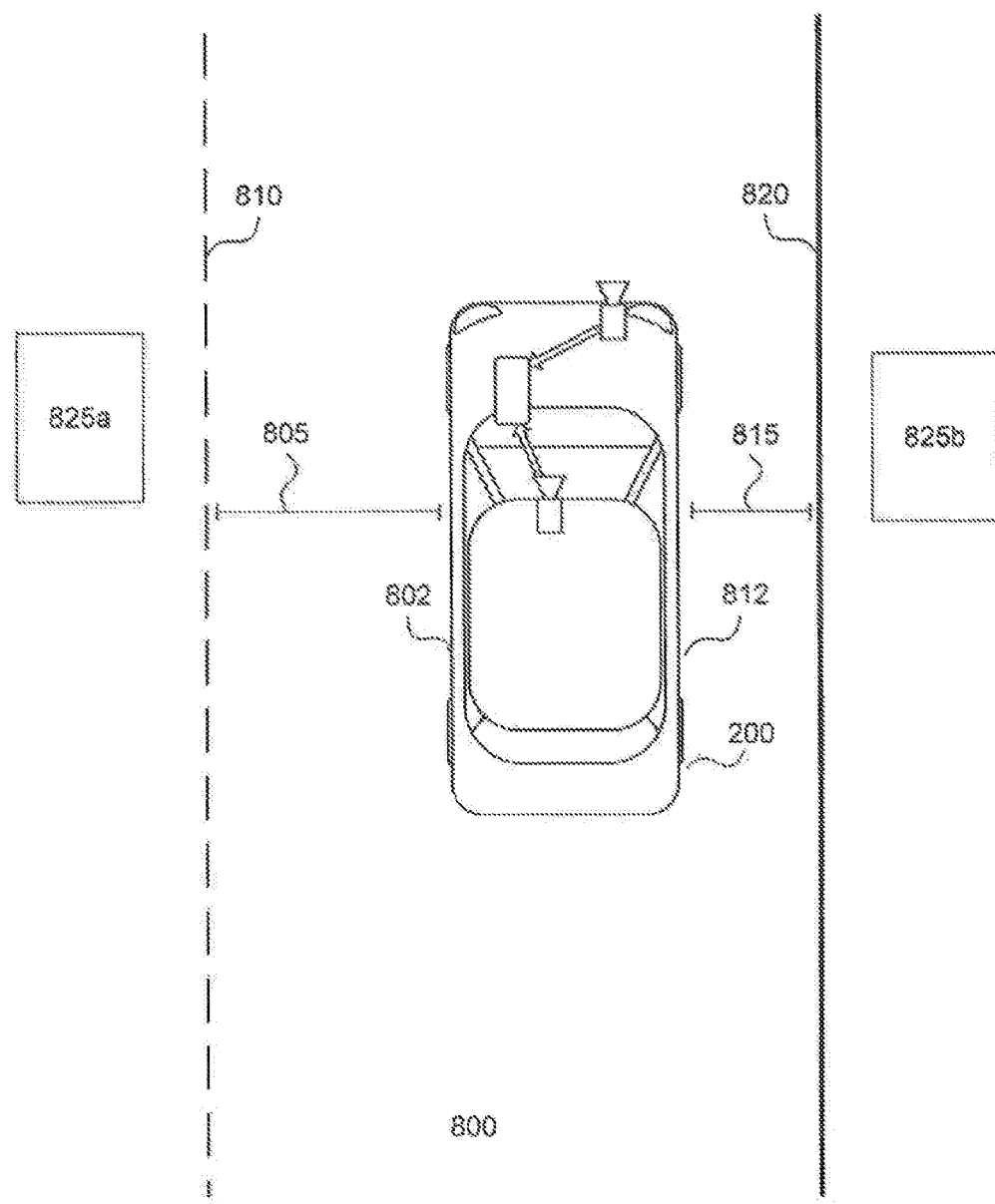


图8C

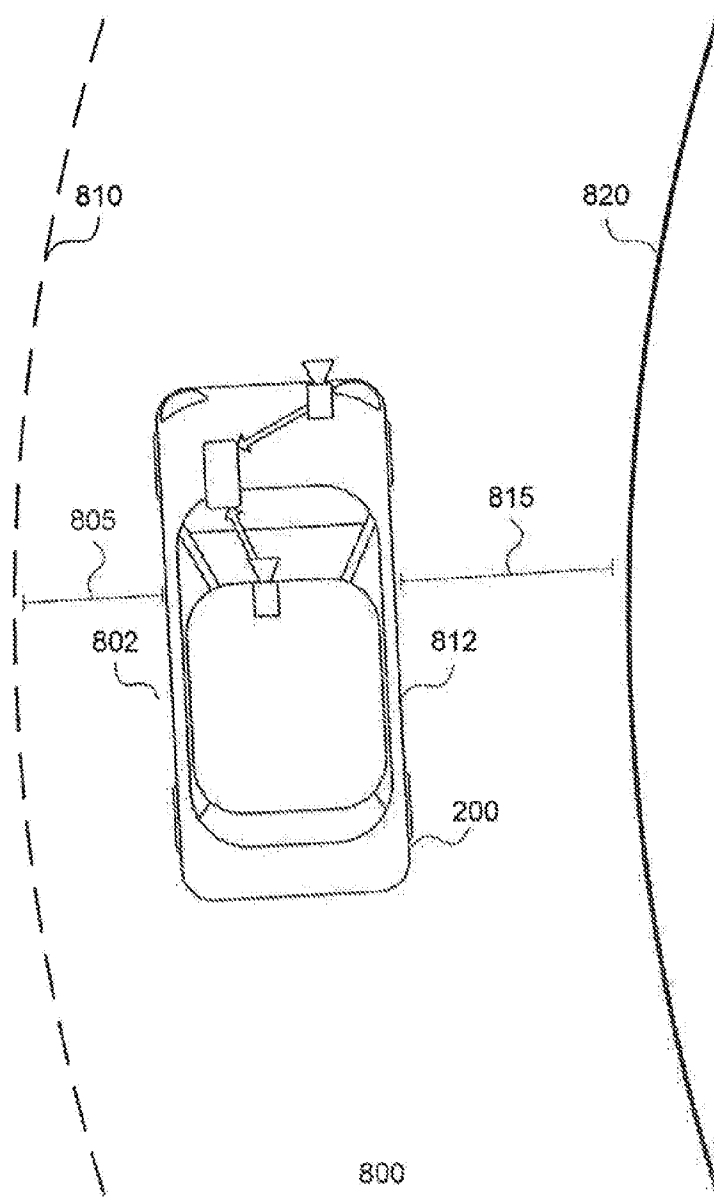


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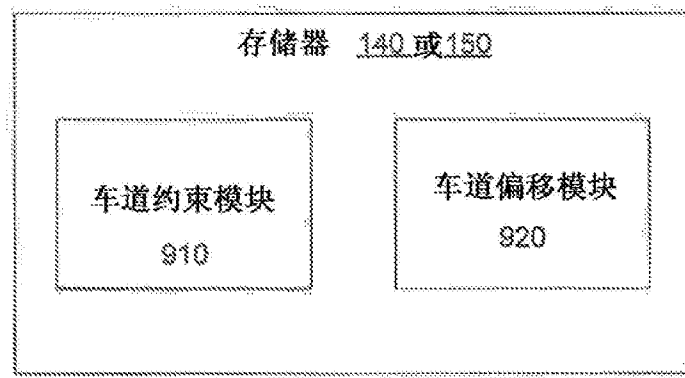


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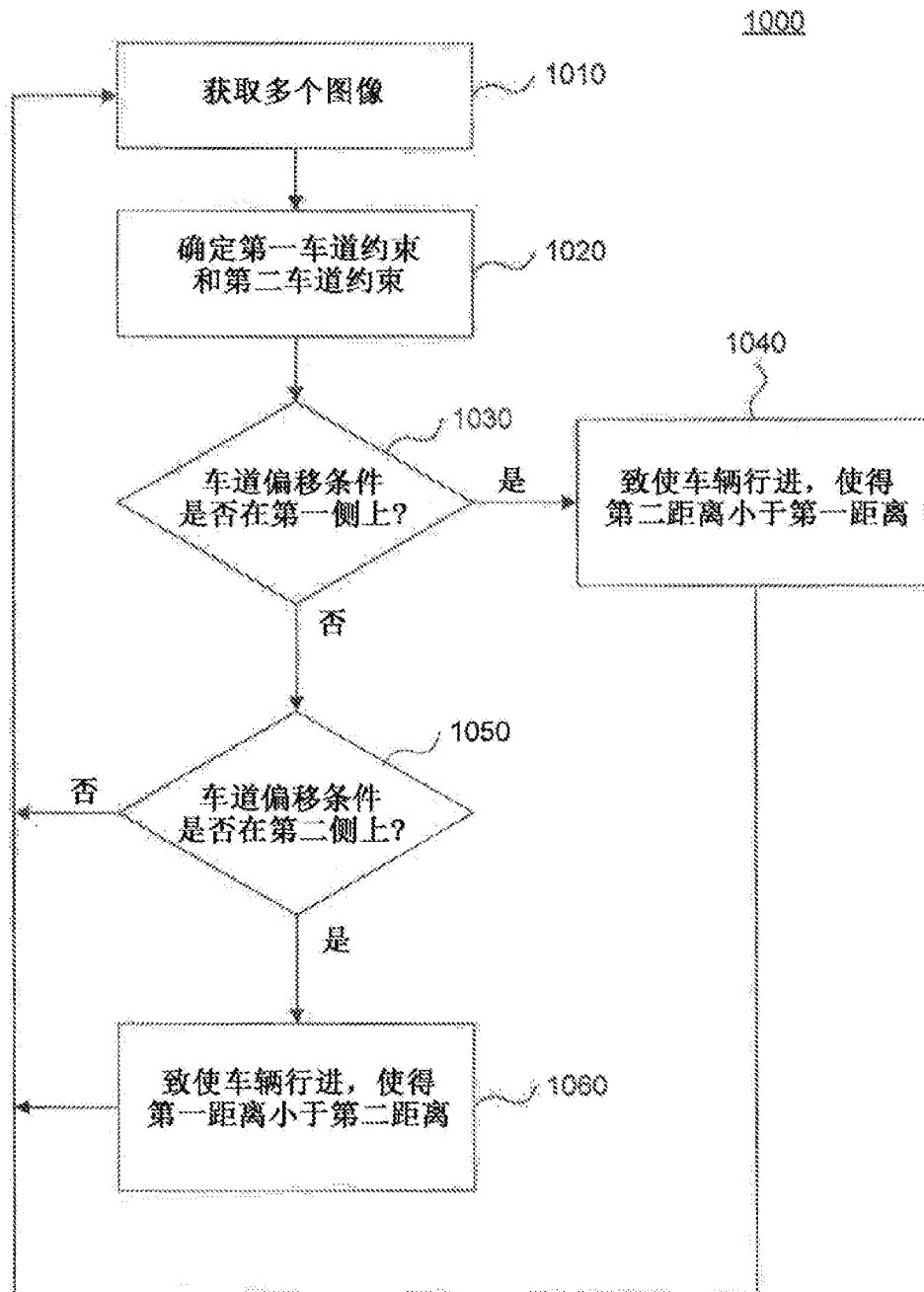


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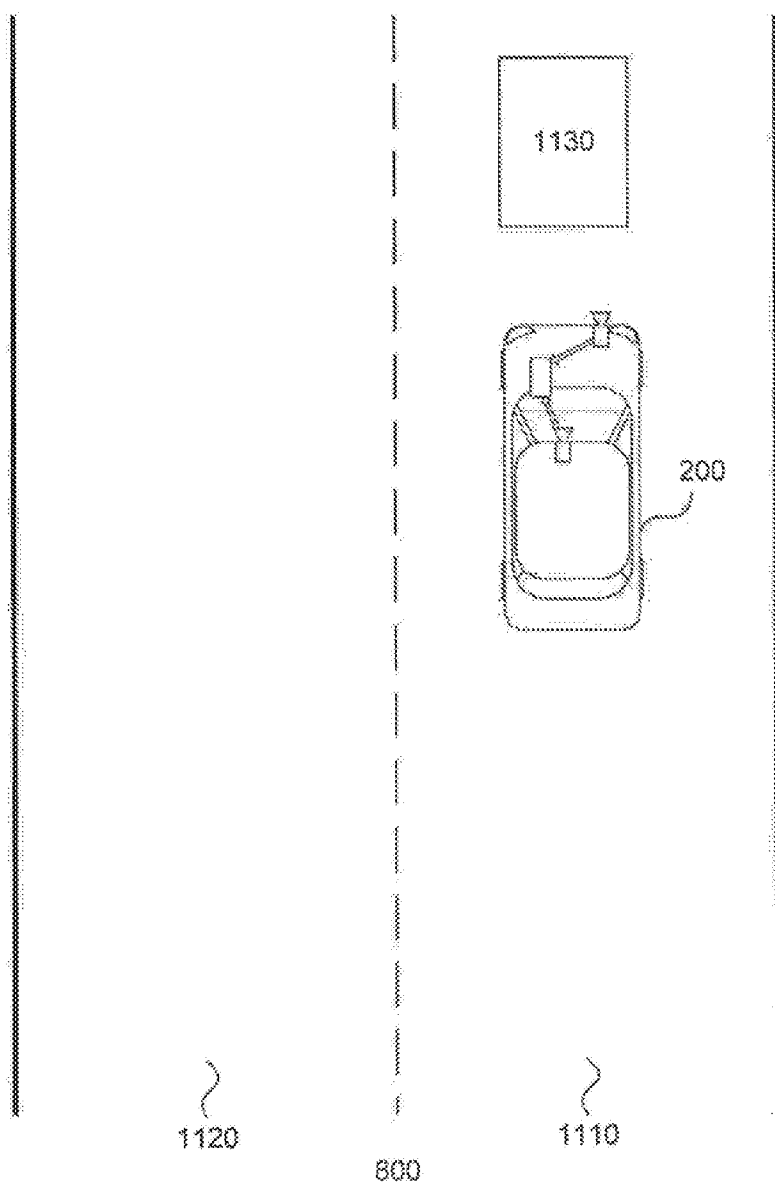


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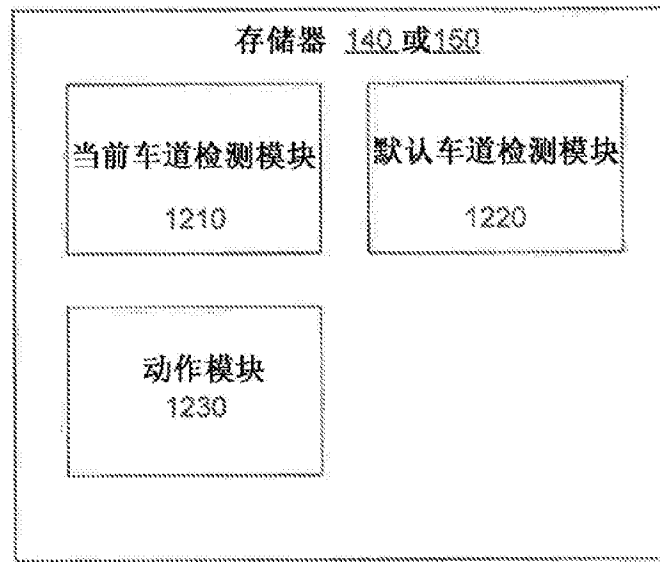


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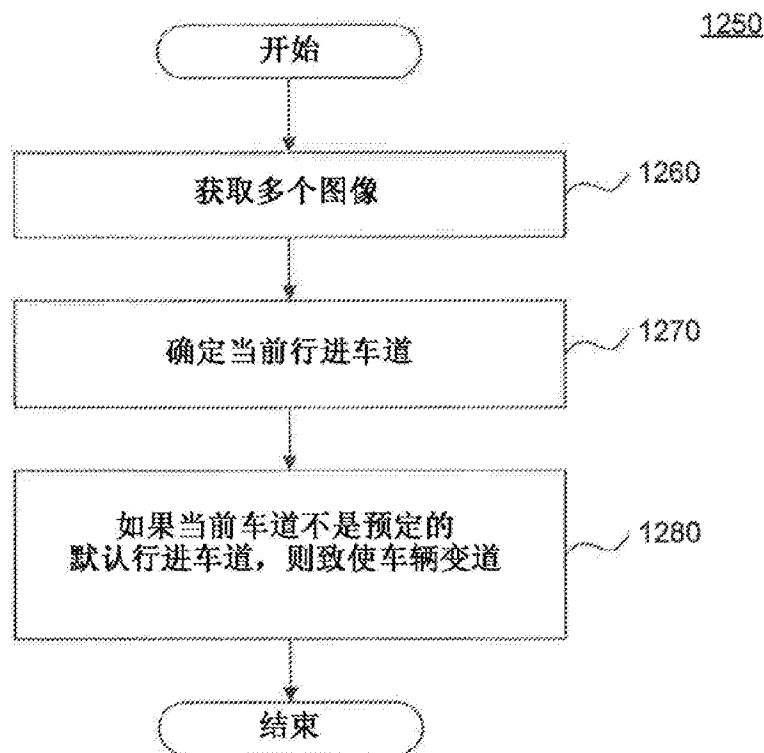


图12B

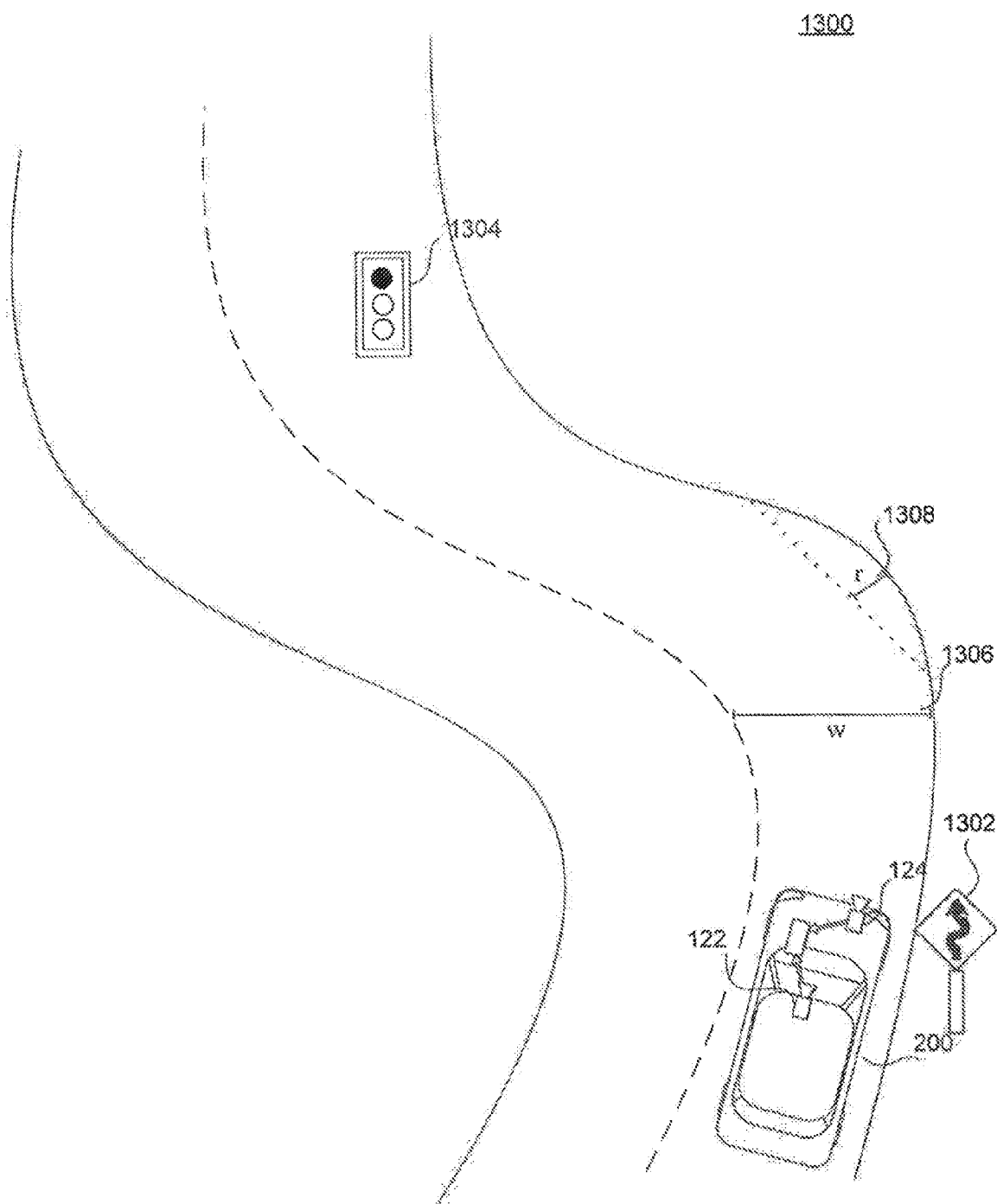


图13A

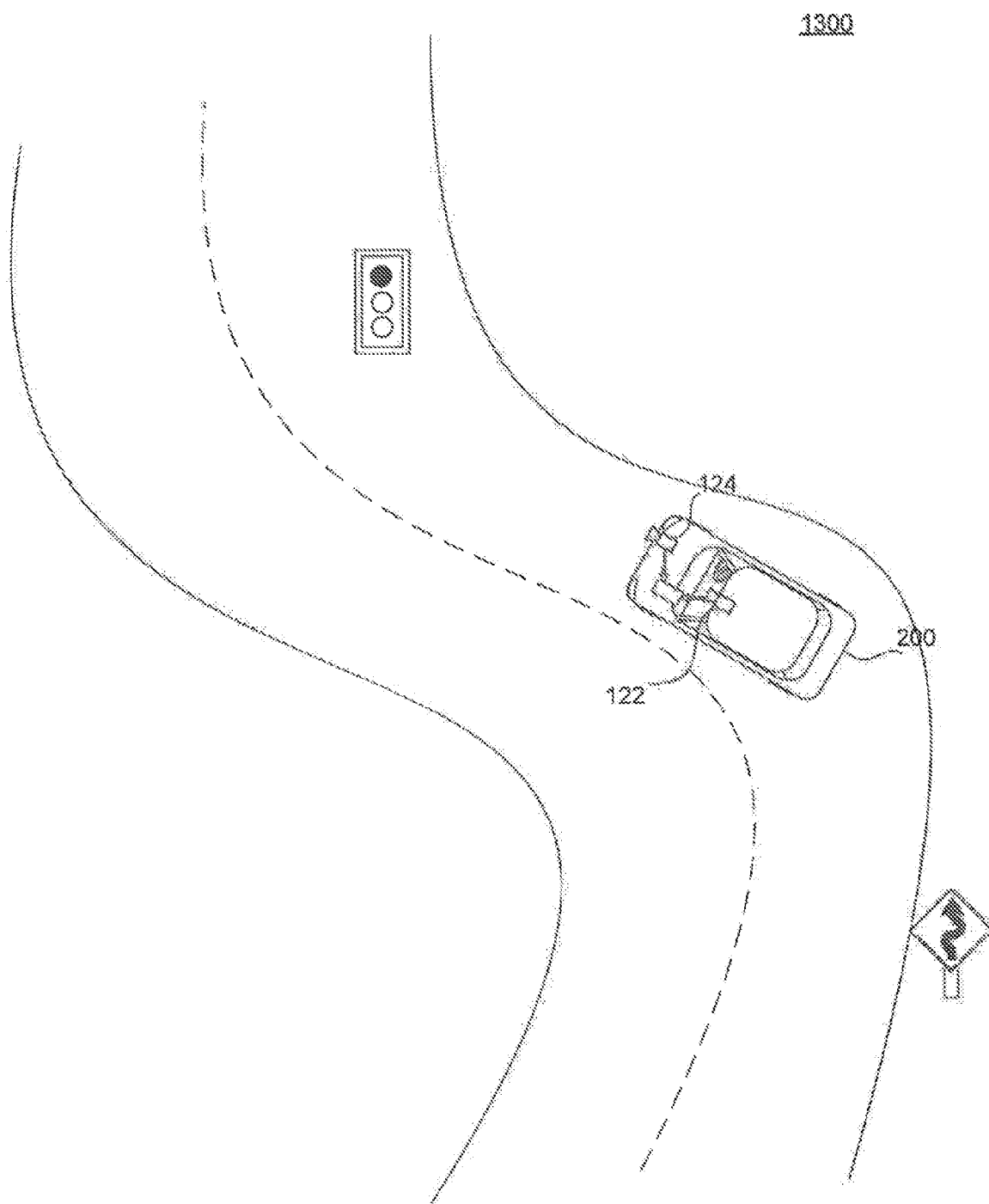


图13B

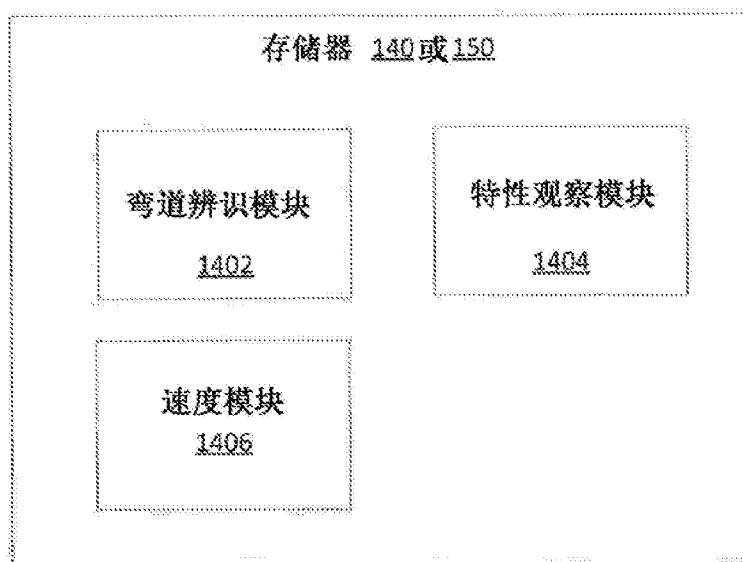


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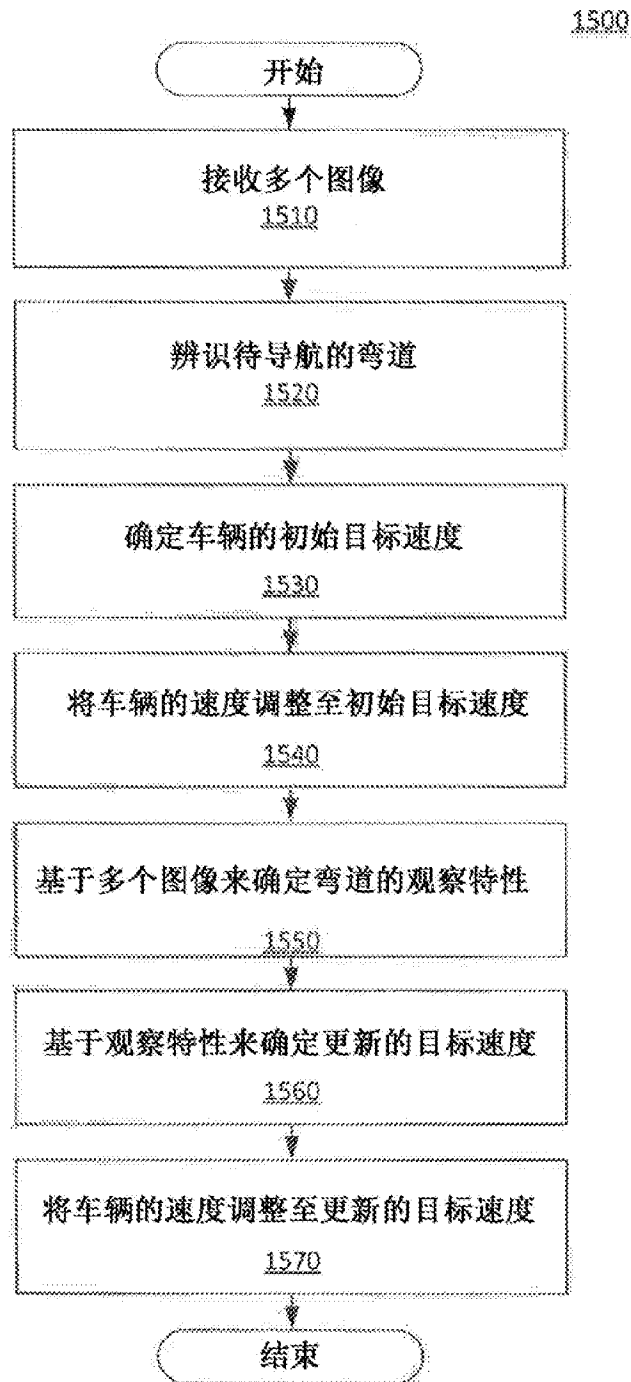


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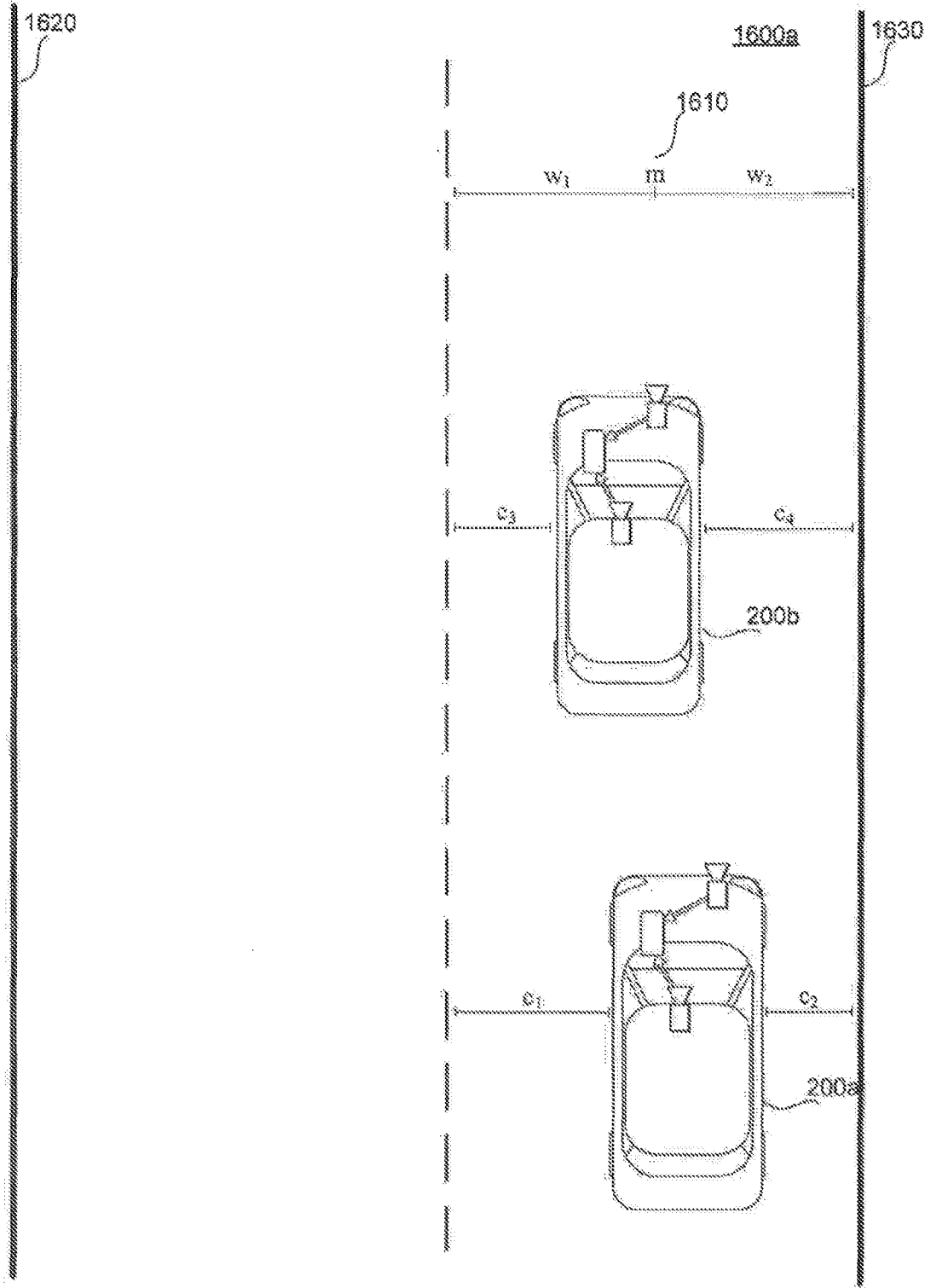


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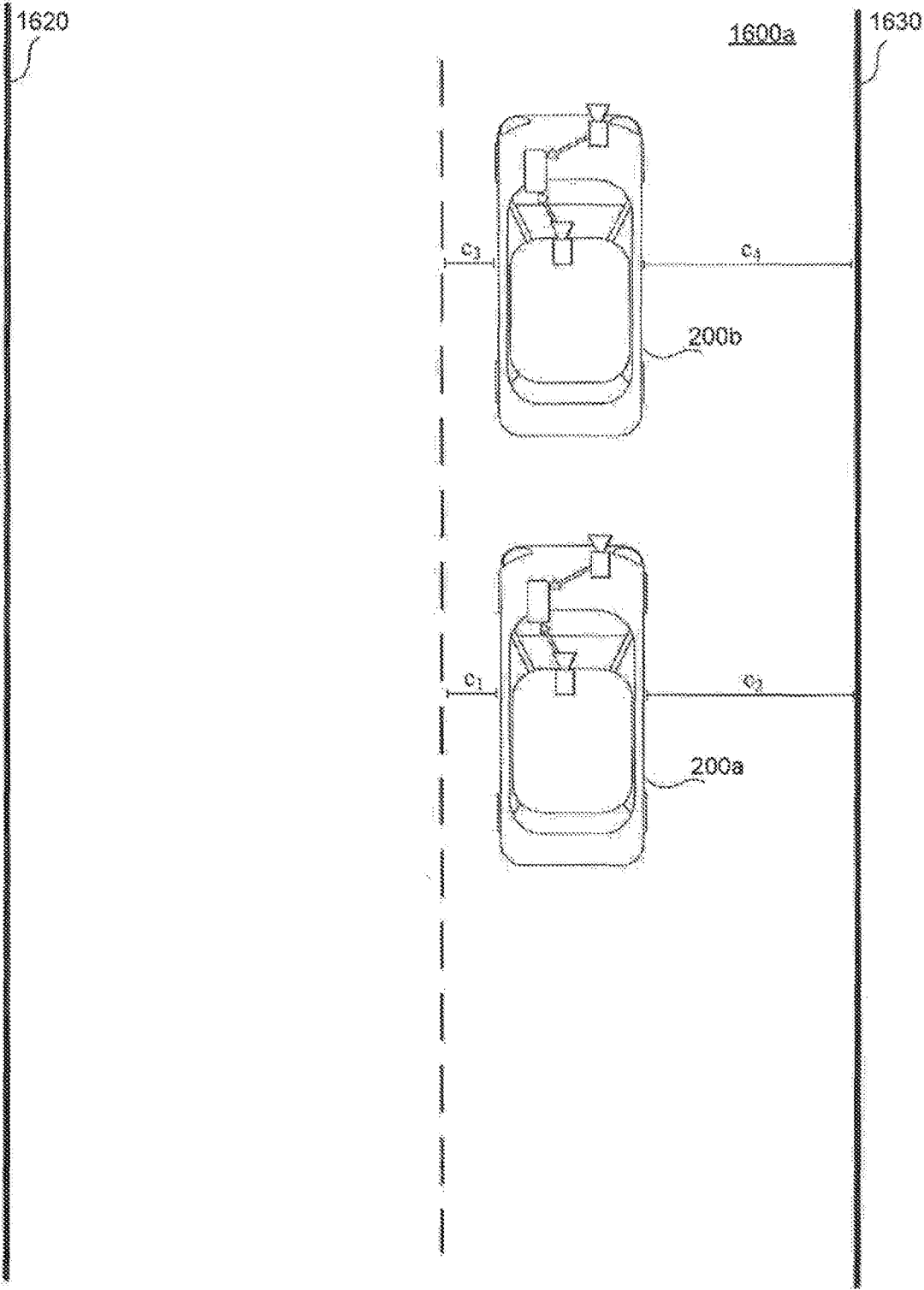


图16B

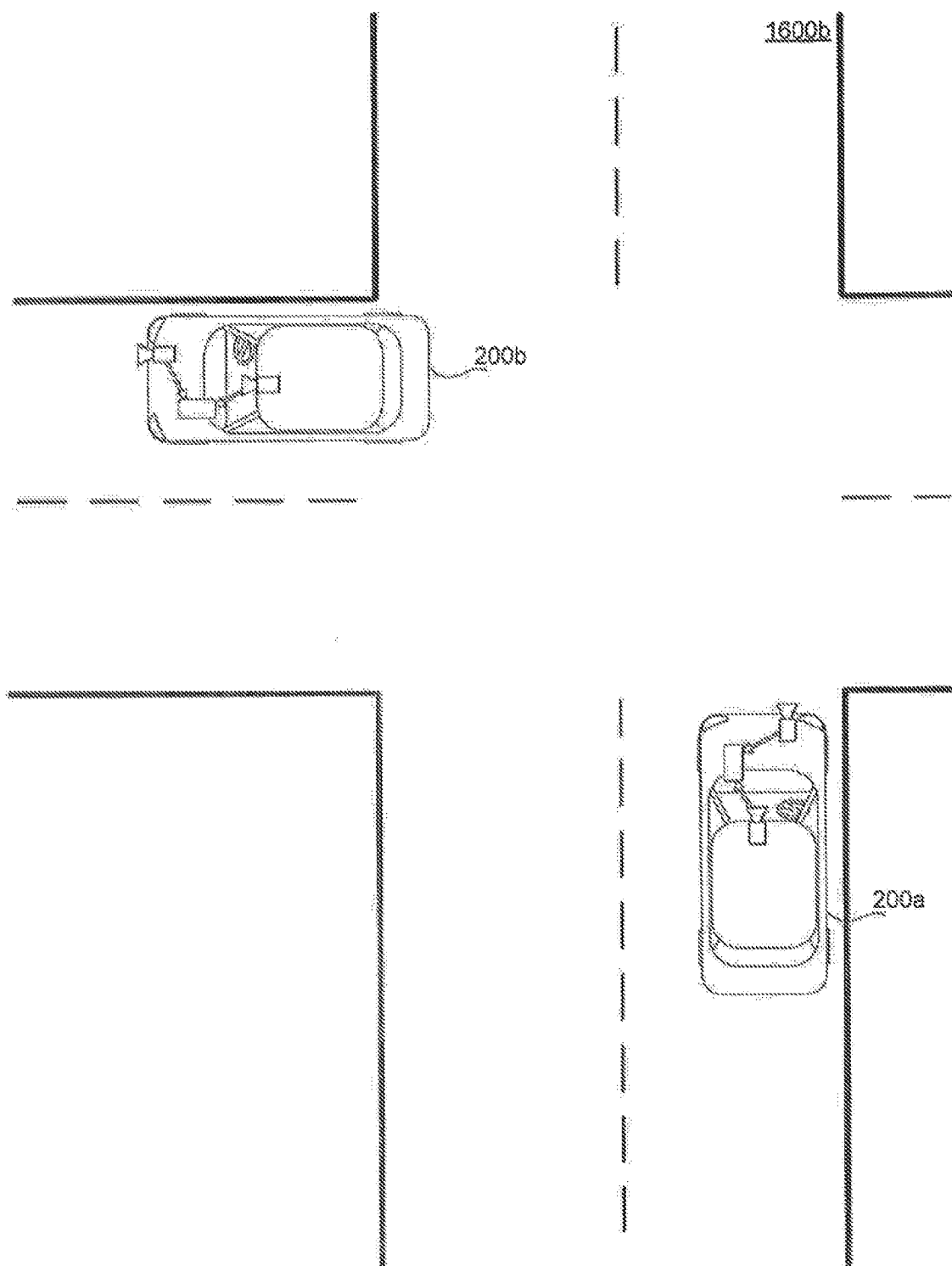


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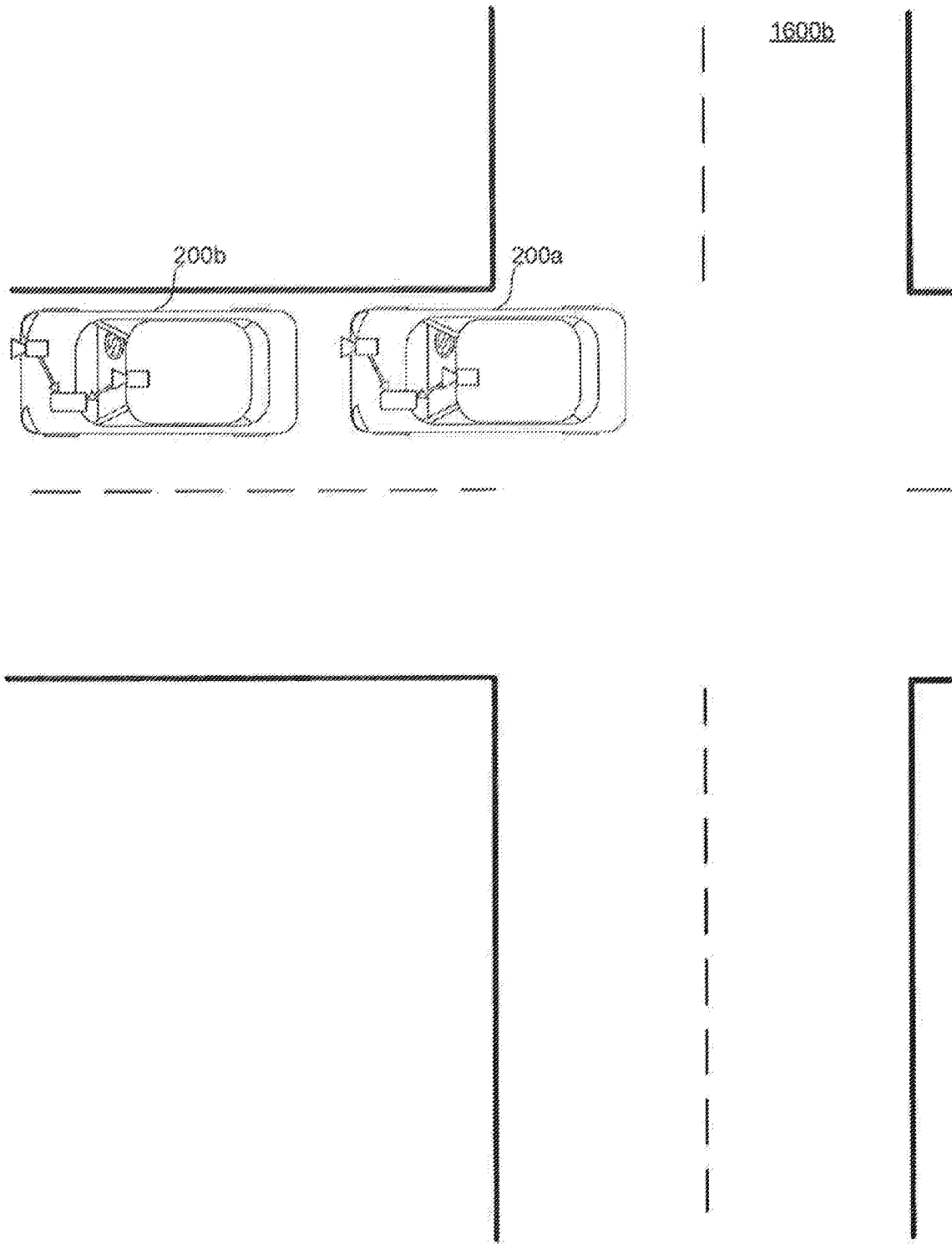


图16D

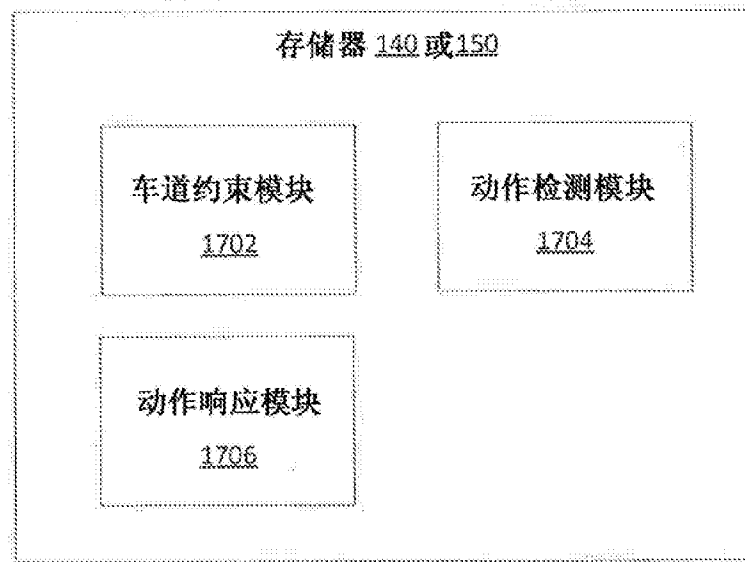


图17

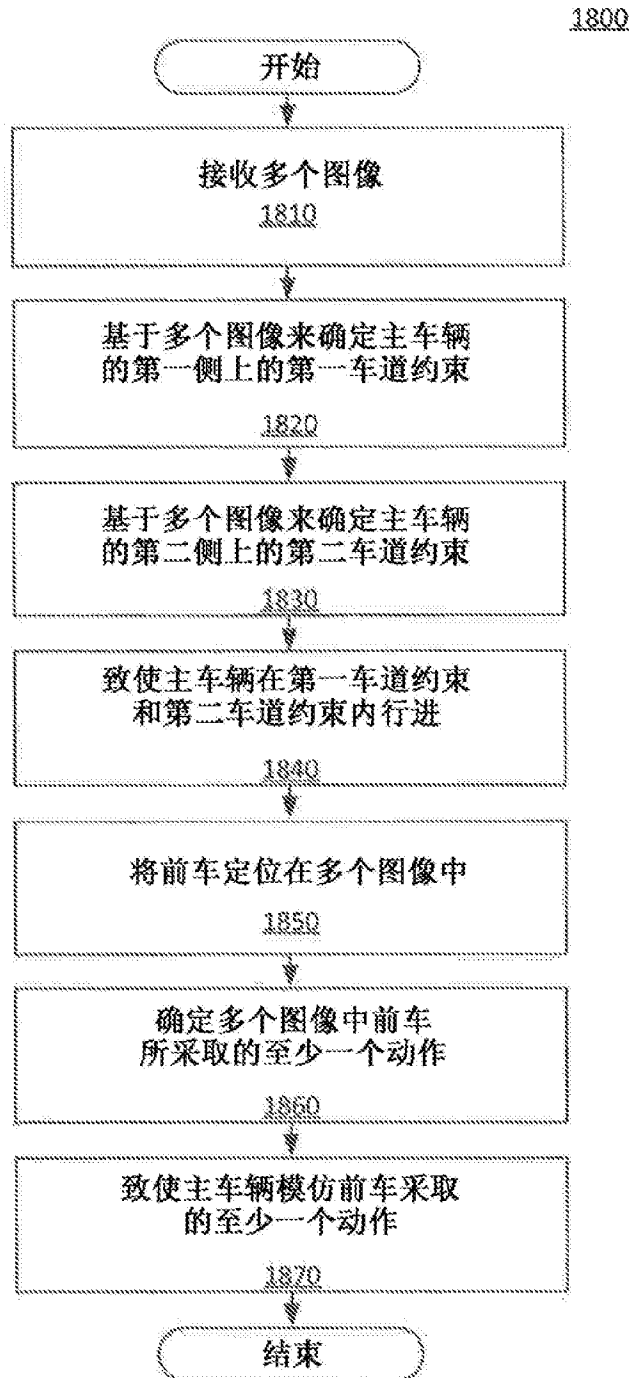


图18

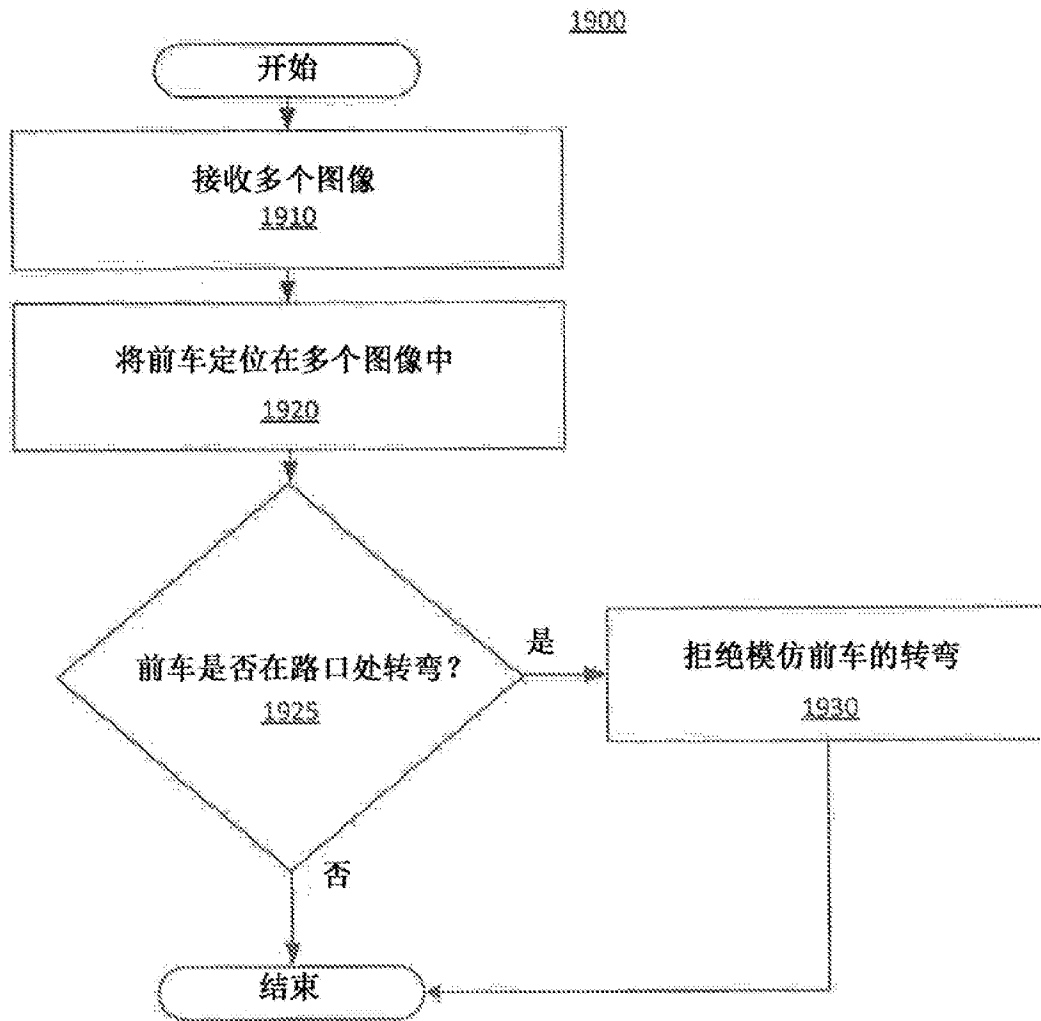


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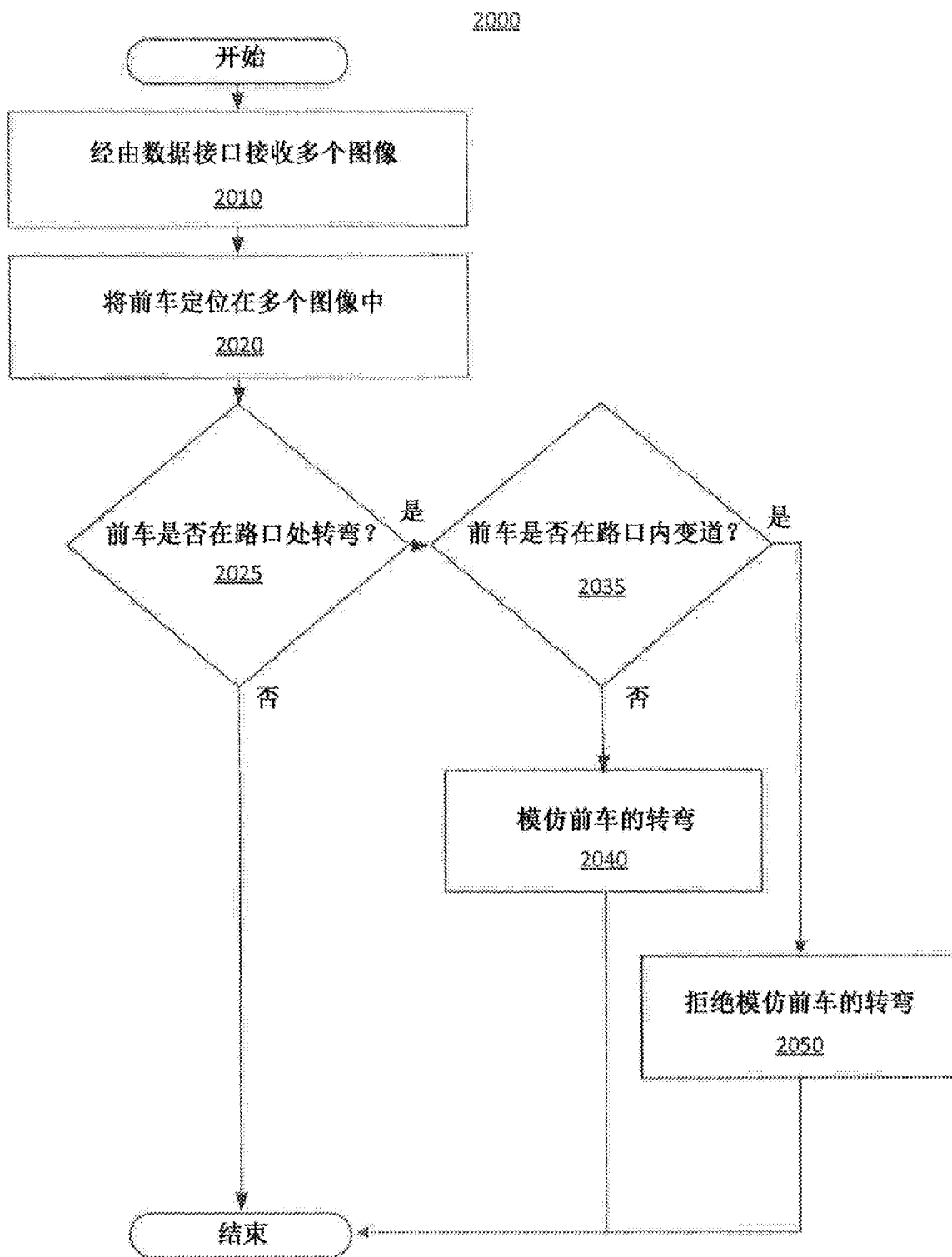


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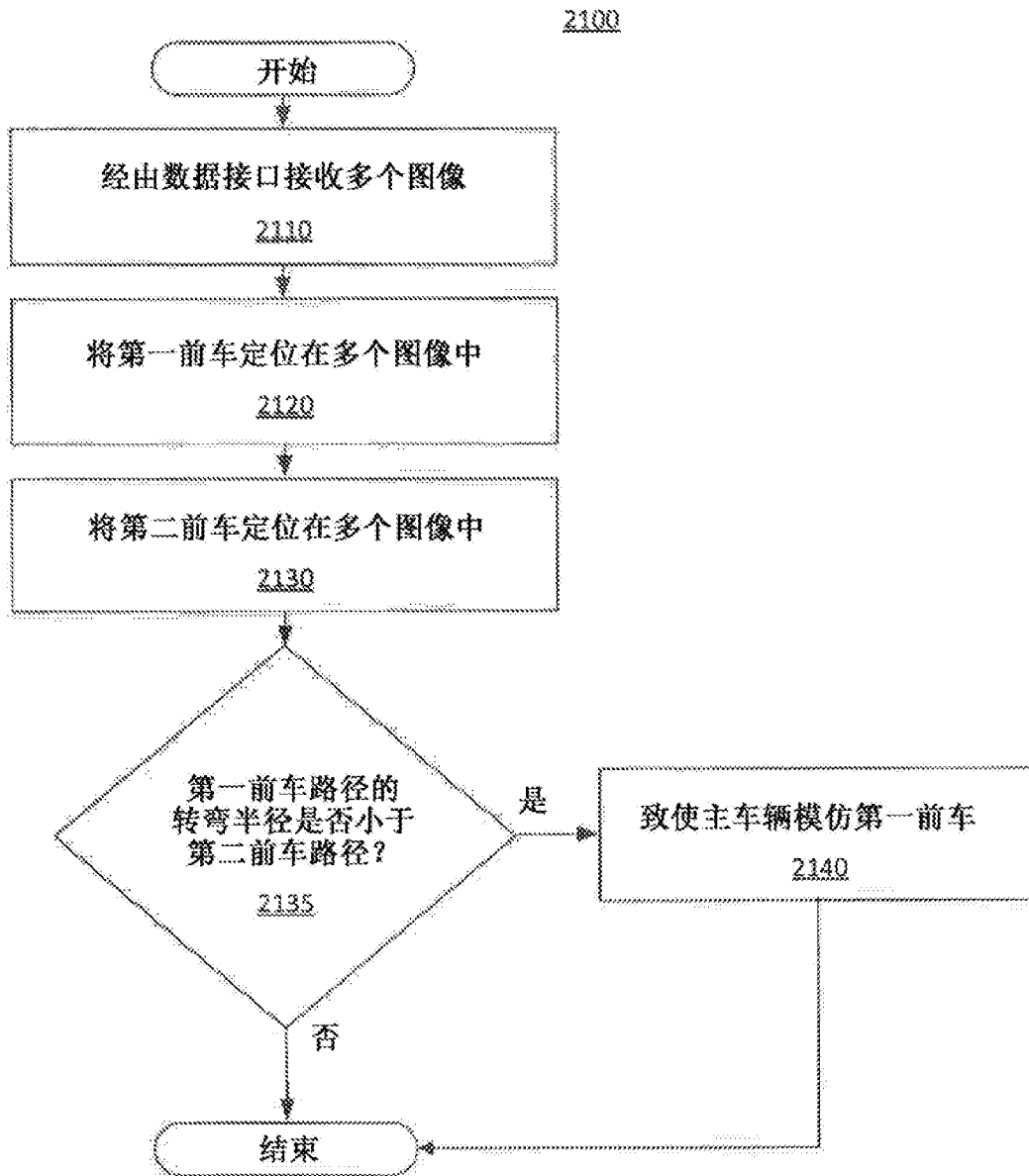


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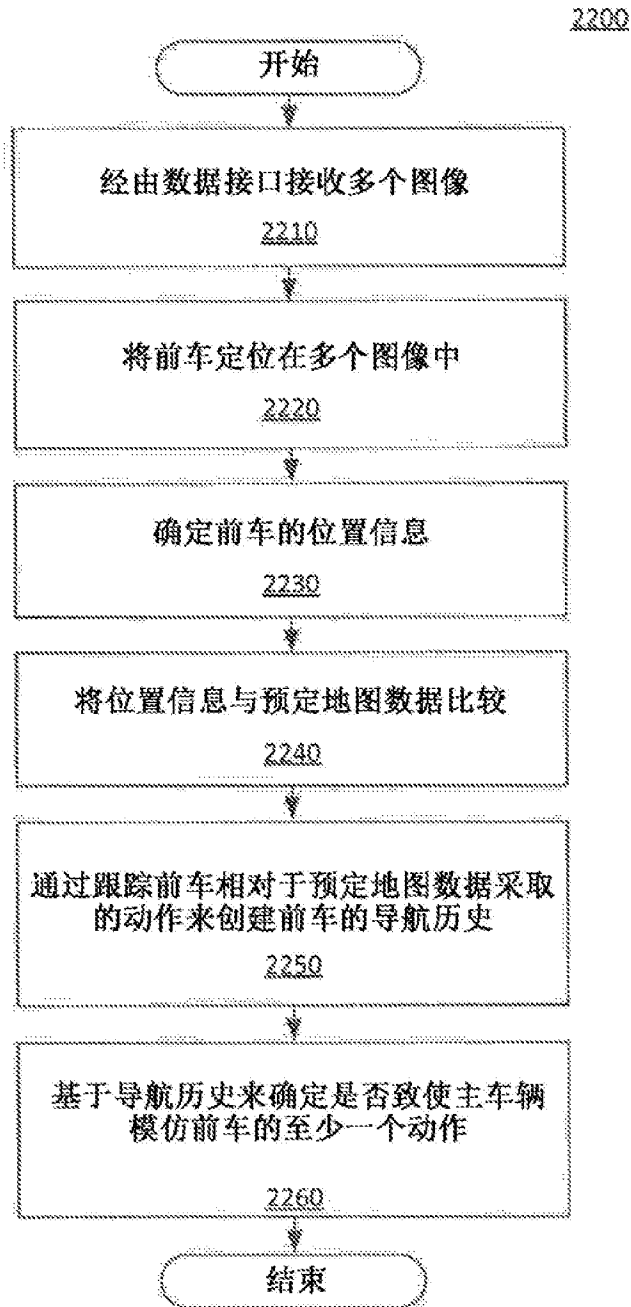


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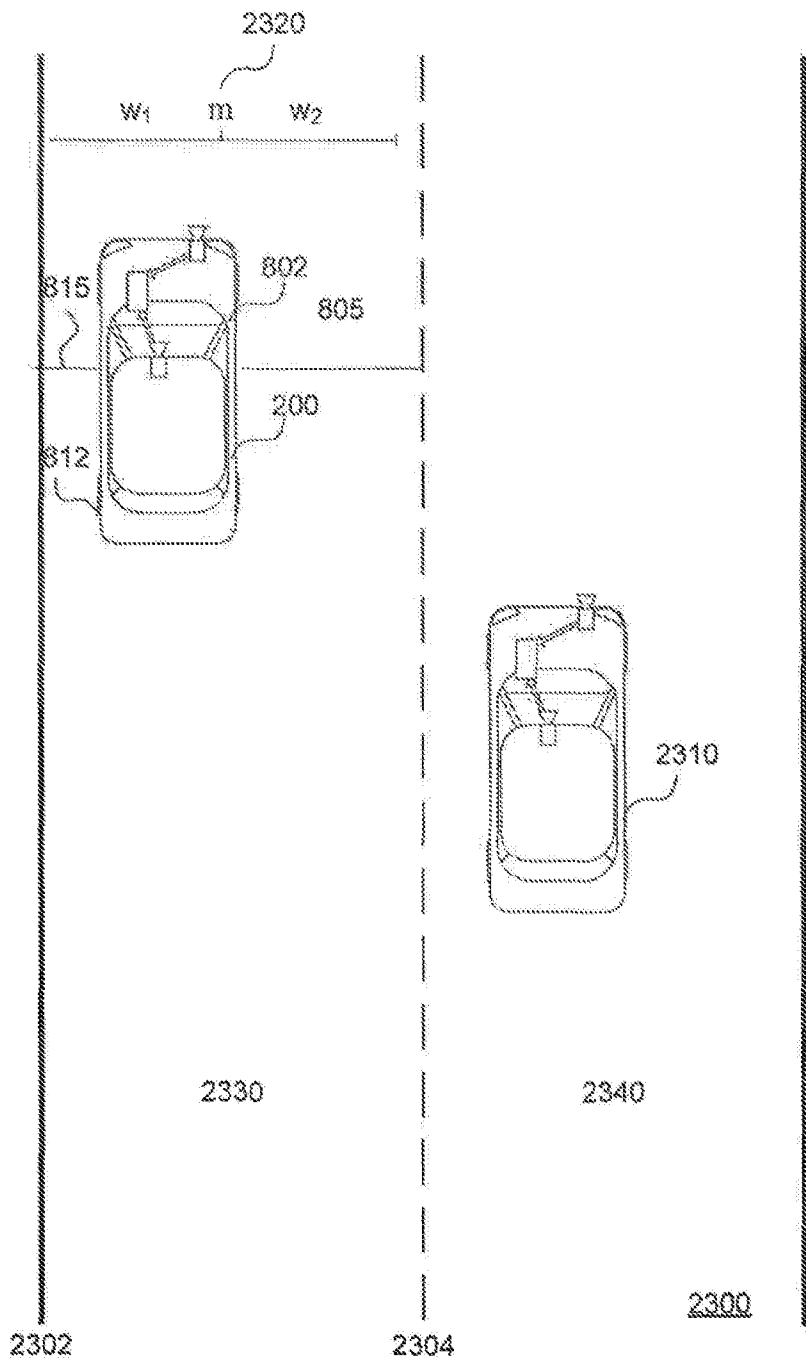


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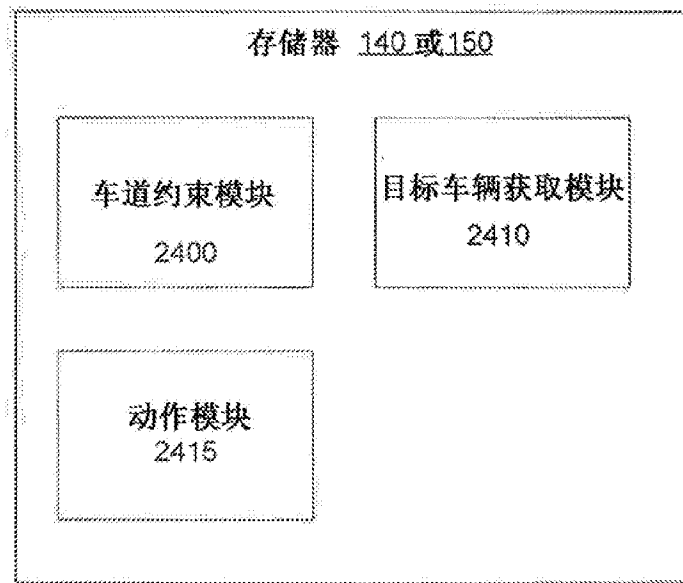


图24A

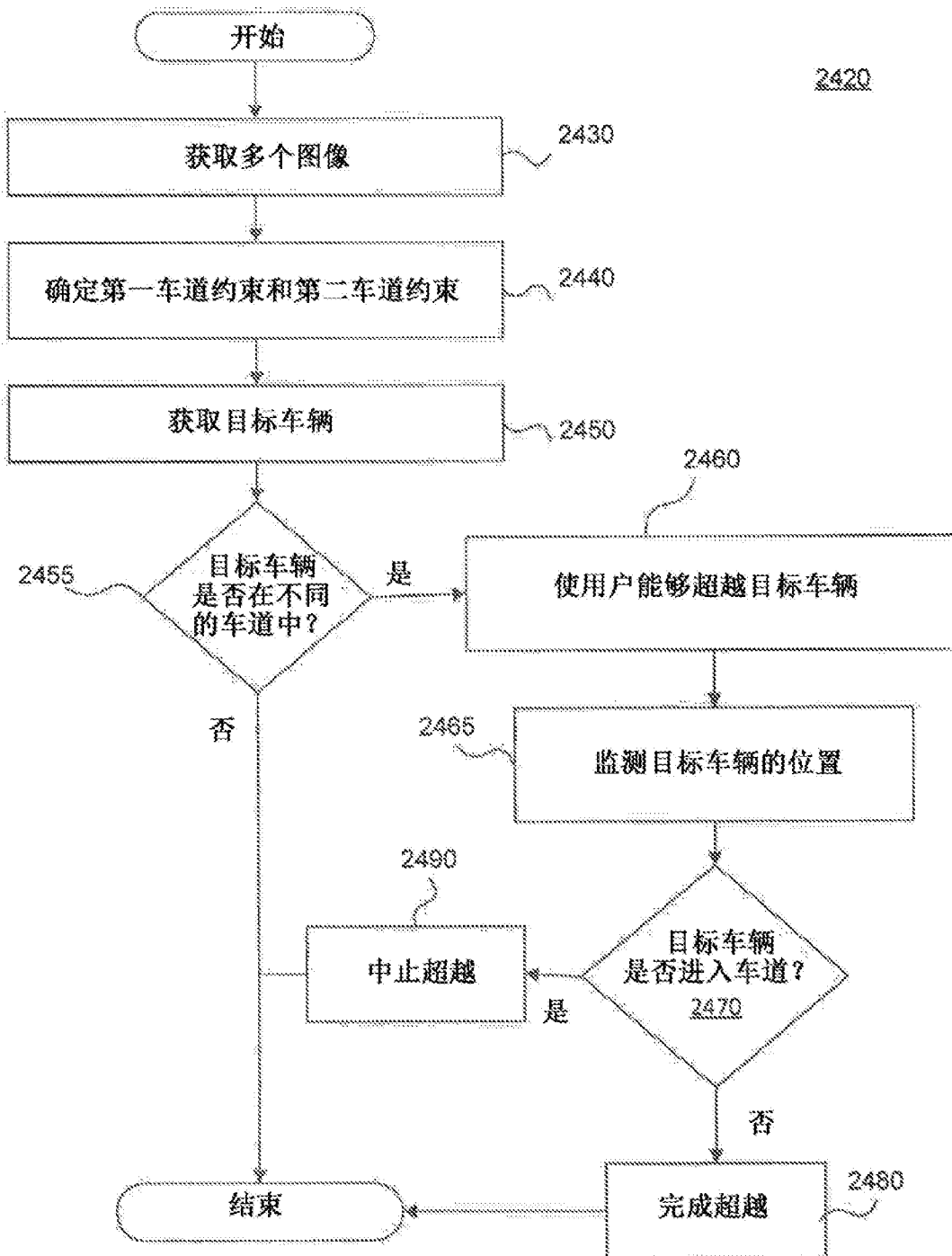


图24B

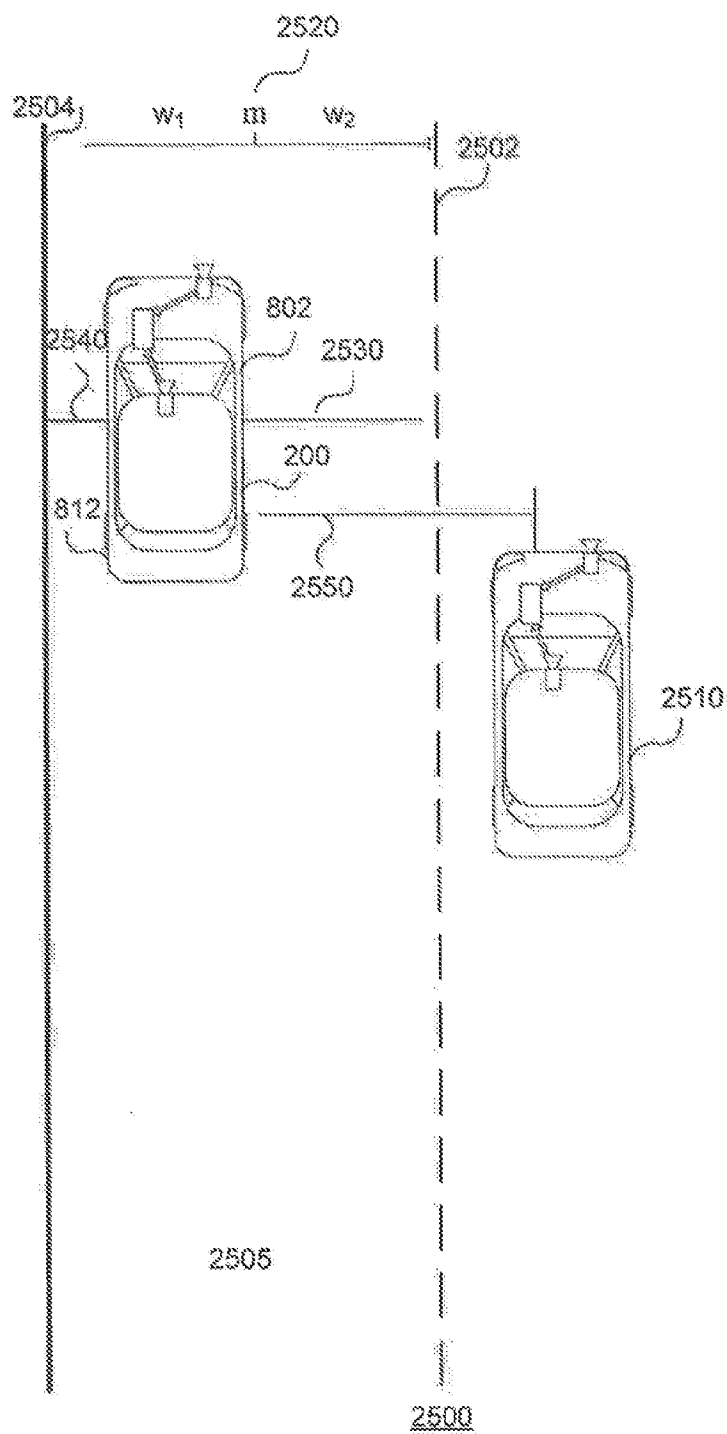


图 25

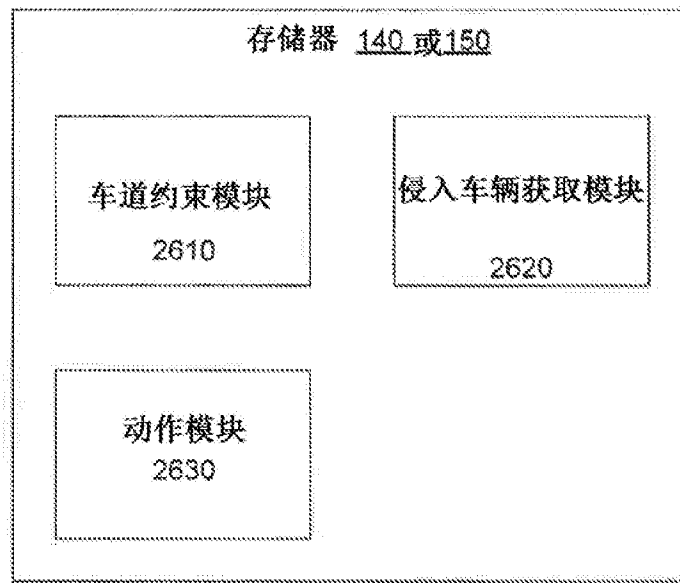


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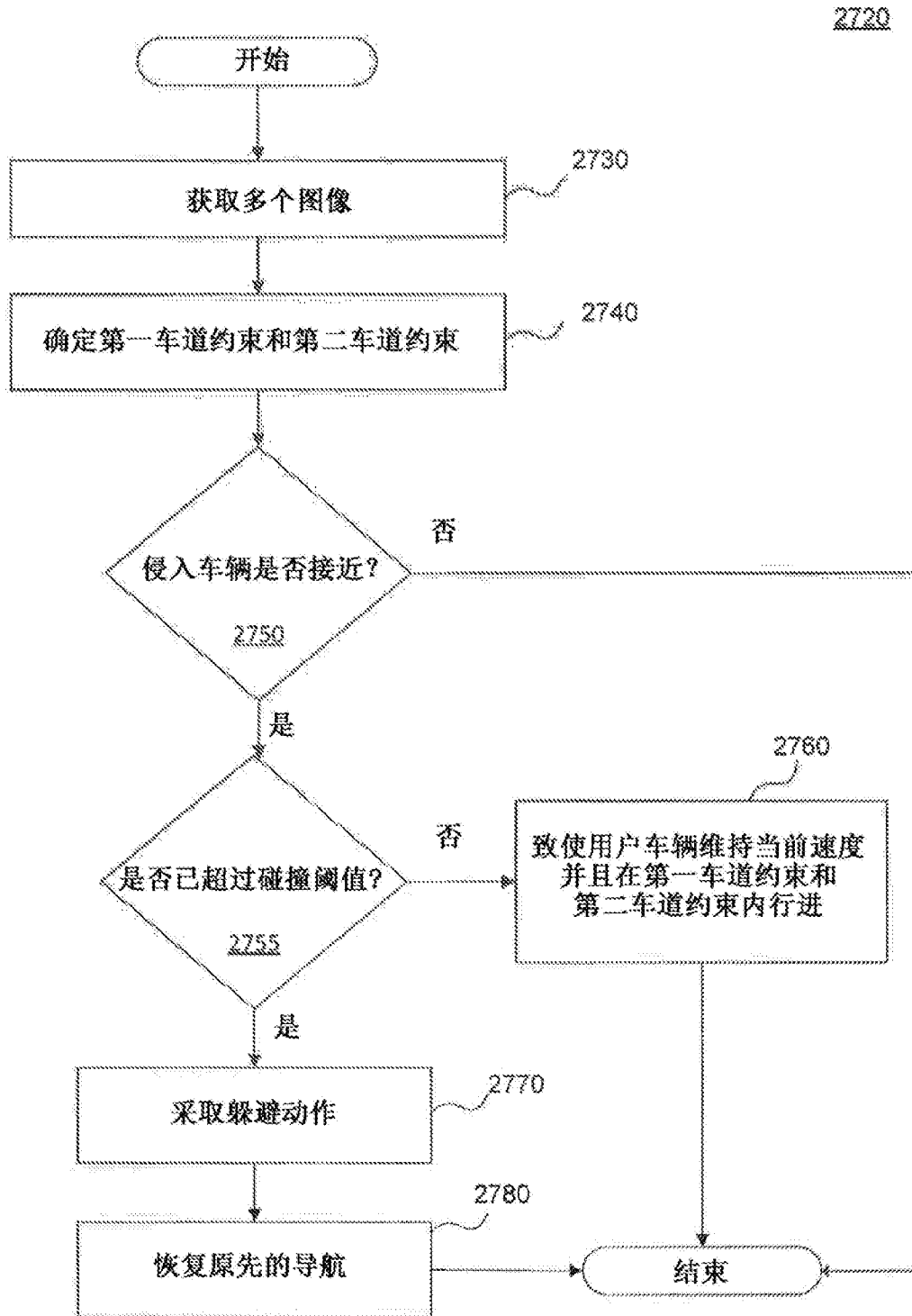


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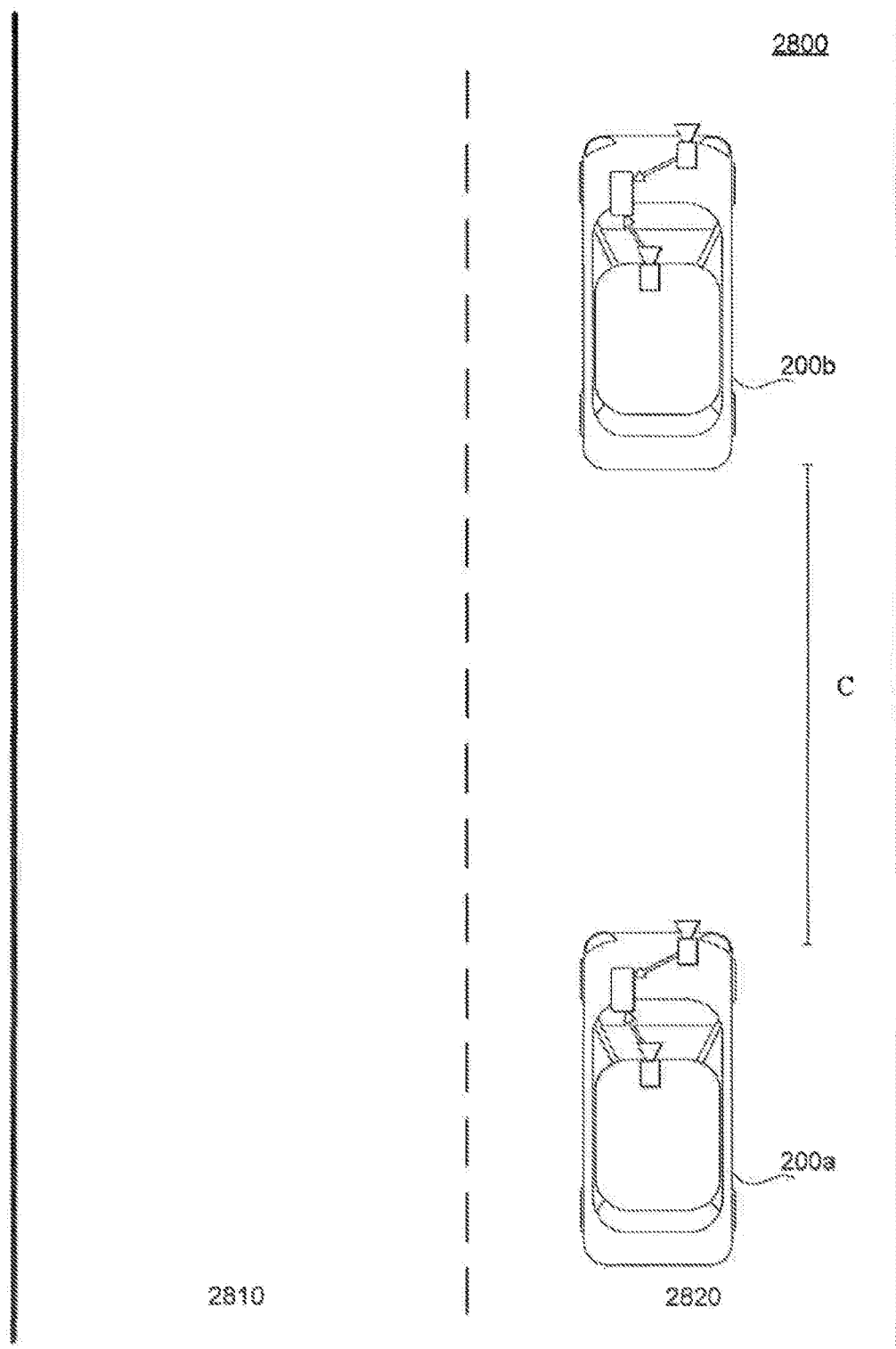


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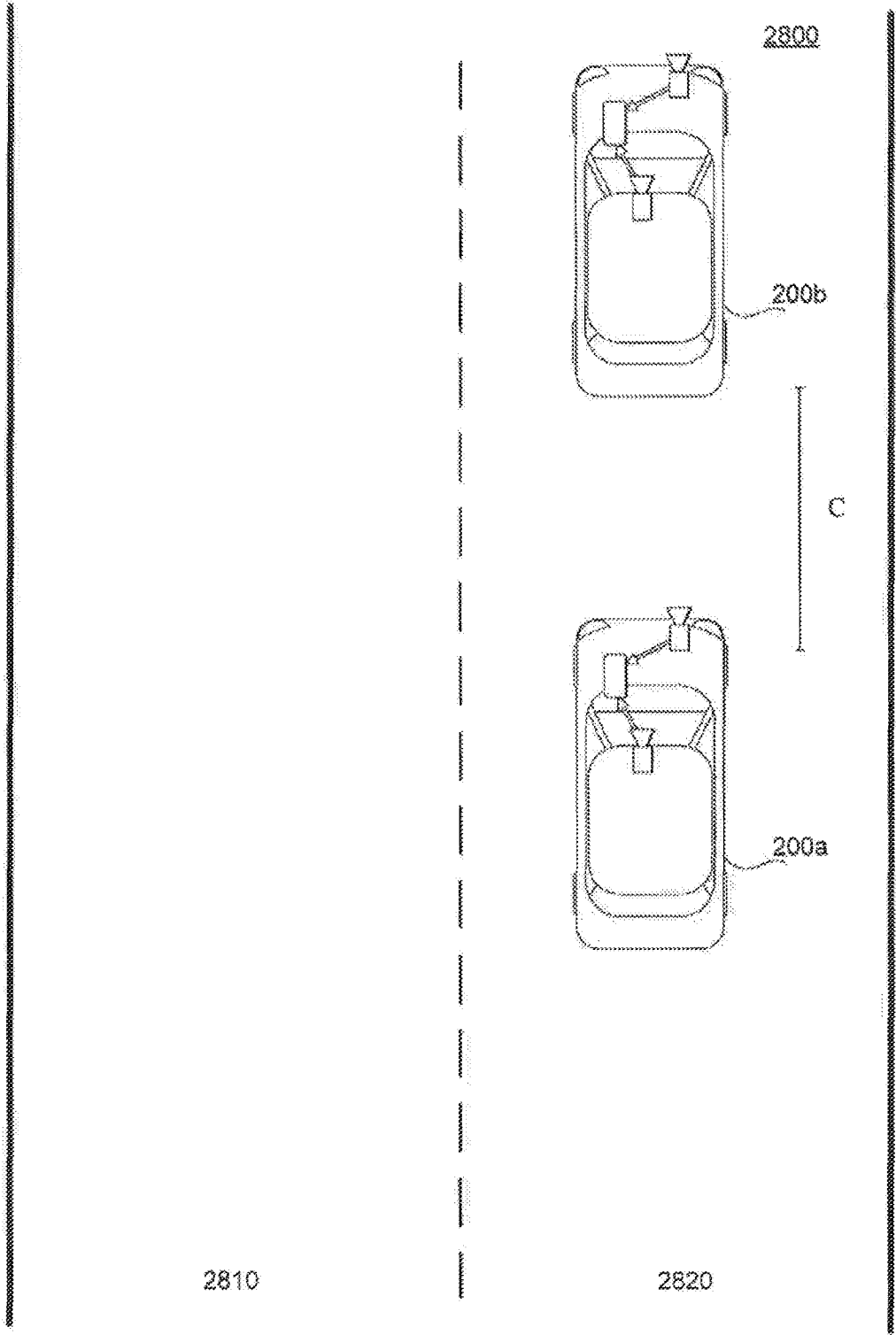


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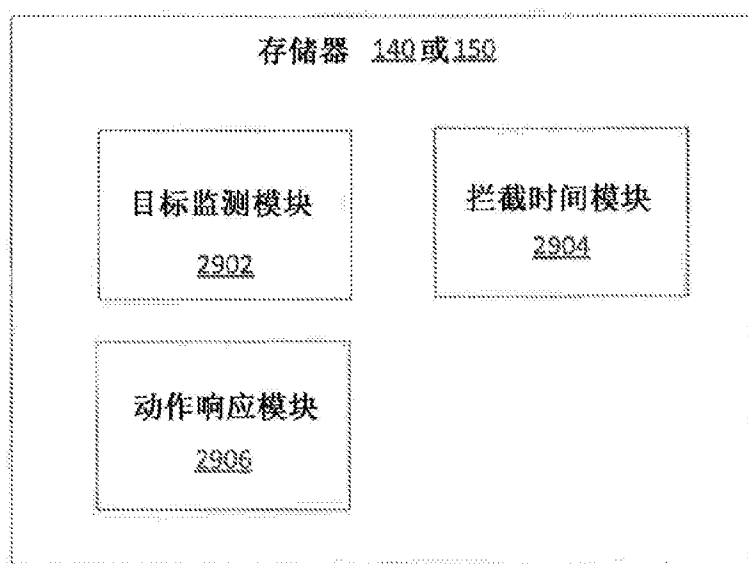


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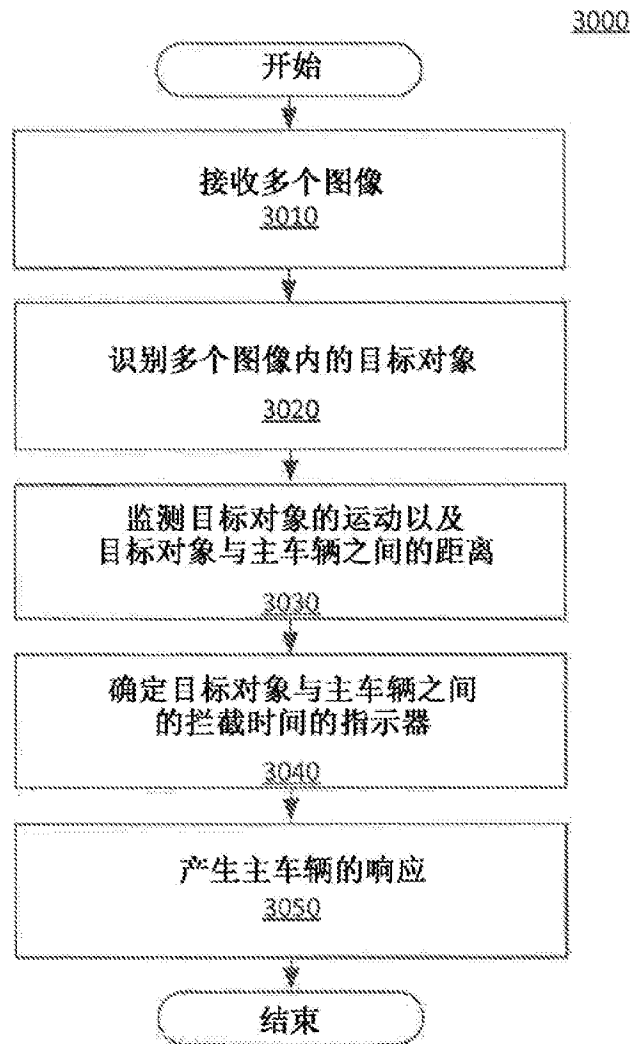


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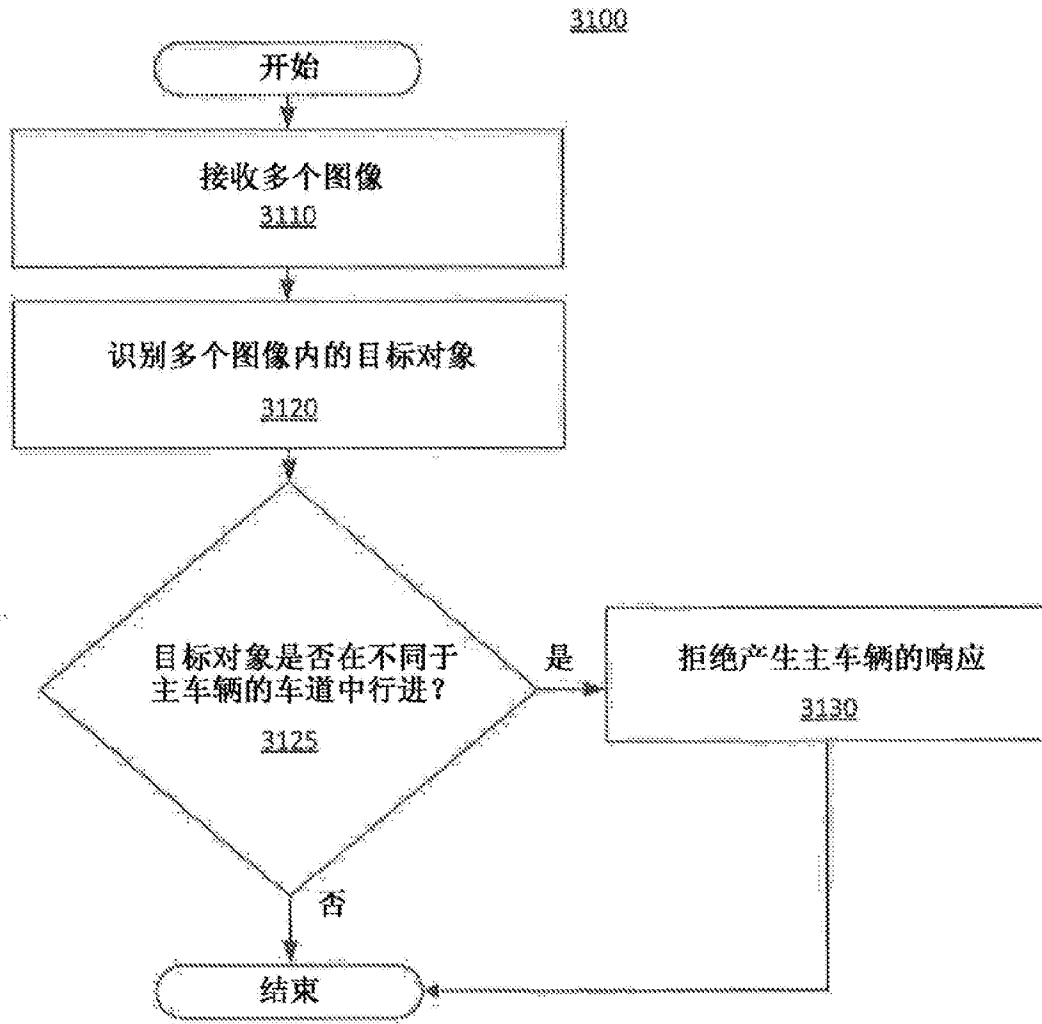


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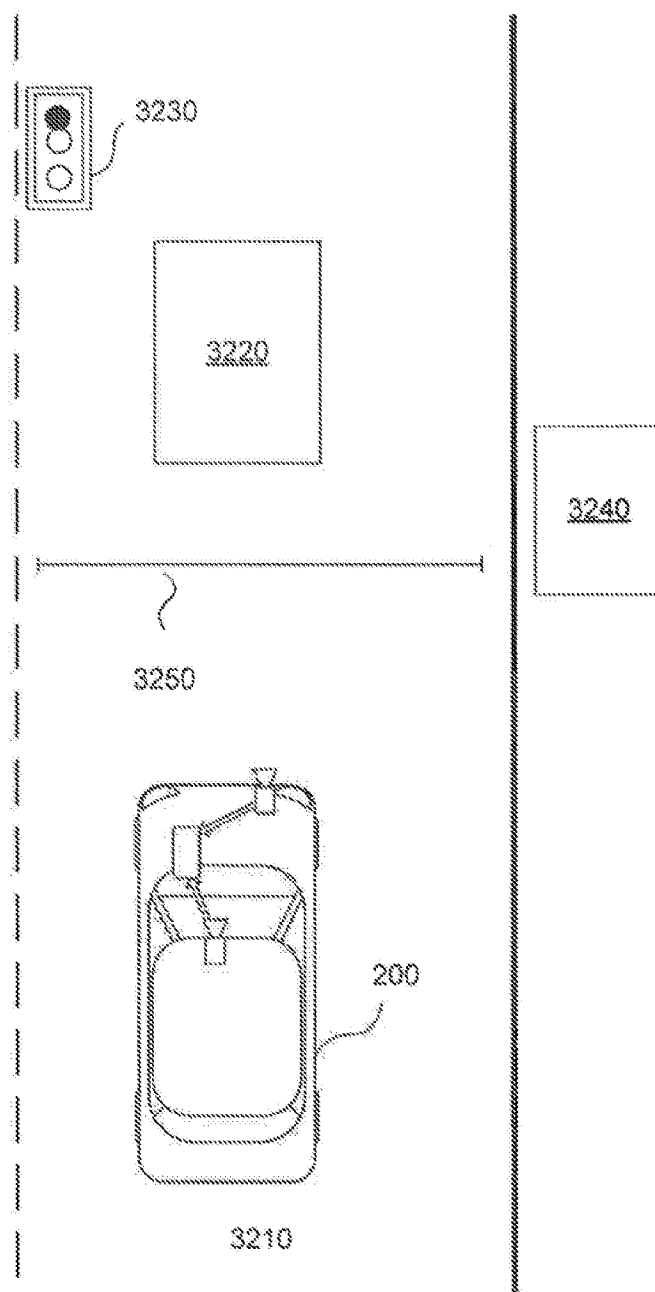


图32A

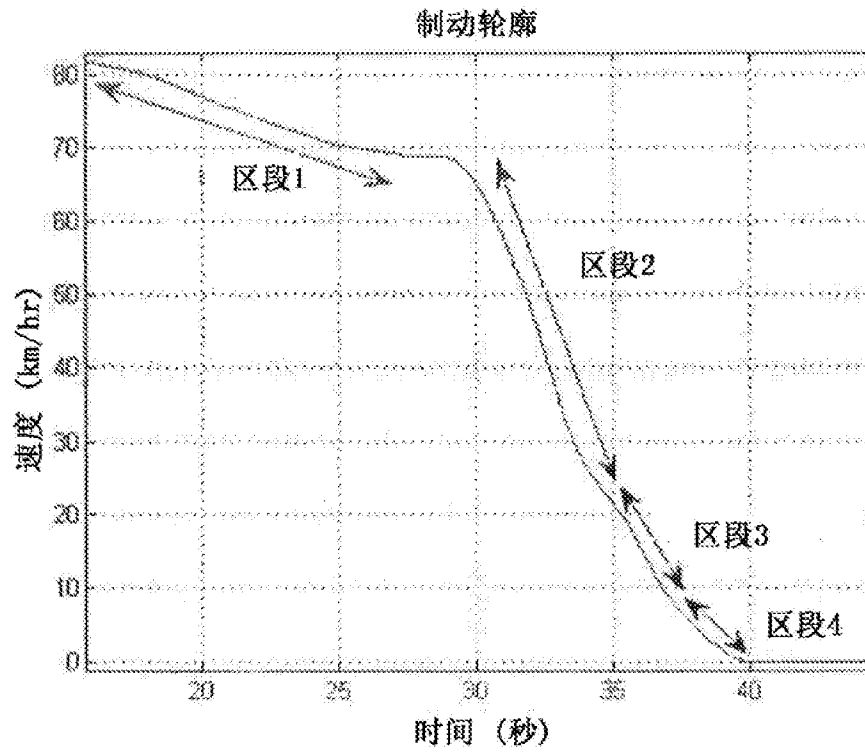


图32B



图33

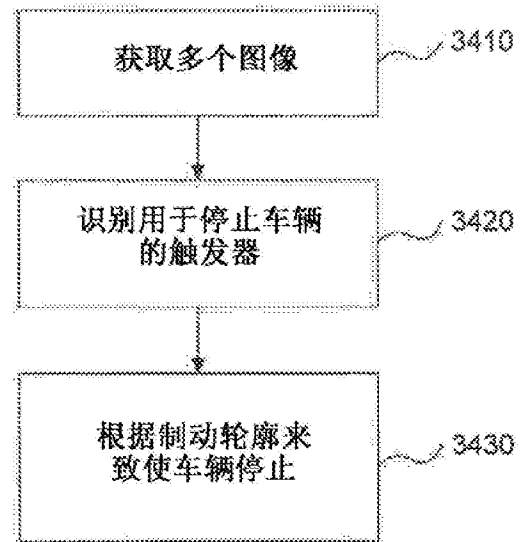
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图34

Electronic Acknowledgement Receipt

EFS ID:	44011776
Application Number:	17374656
International Application Number:	
Confirmation Number:	8961
Title of Invention:	CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES
First Named Inventor/Applicant Name:	Michael S. Gordon
Customer Number:	164
Filer:	Ian David MacKinnon
Filer Authorized By:	
Attorney Docket Number:	S974-012343
Receipt Date:	12-OCT-2021
Filing Date:	13-JUL-2021
Time Stamp:	18:14:11
Application Type:	Utility under 35 USC 111(a)

Payment information:

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PUBLICATION NOTICE



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164
KINNEY & LANGE, P.A.
312 SOUTH THIRD STREET
MINNEAPOLIS, MN 55415-1002

Title:CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES

Publication No.US-2022-0001885-A1

Publication Date:01/06/2022

NOTICE OF PUBLICATION OF APPLICATION

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		17374656
	Filing Date		2021-07-13
	First Named Inventor	Michael S. Gordon	
	Art Unit		
	Examiner Name		
	Attorney Docket Number		S974-012343

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		17374656
	Filing Date		2021-07-13
	First Named Inventor	Michael S. Gordon	
	Art Unit		
	Examiner Name		
	Attorney Docket Number	S974-012343	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	17374656
Filing Date	2021-07-13
First Named Inventor	Michael S. Gordon
Art Unit	
Examiner Name	
Attorney Docket Number	S974-012343

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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).

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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)	2022-10-19
Name/Print	Ian D. MacKinnon	Registration Number	34,660

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EFS ID:	46851040
Application Number:	17374656
International Application Number:	
Confirmation Number:	8961
Title of Invention:	CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES
First Named Inventor/Applicant Name:	Michael S. Gordon
Customer Number:	164
Filer:	Ian David MacKinnon
Filer Authorized By:	
Attorney Docket Number:	S974-012343
Receipt Date:	19-OCT-2022
Filing Date:	13-JUL-2021
Time Stamp:	17:02:31
Application Type:	Utility under 35 USC 111(a)

Payment information:

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1	Information Disclosure Statement (IDS) Form (SB08)	2022-10-19_SIDS_S974-012343.pdf	1034835 300852a78335c0553a3c693dae4d3d6f17893842	no	4

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor	: Michael S. Gordon	
Appln. No.	: 17/374,656	Confirmation No.: 8961
Filed	: July 13, 2021	Group Art Unit: 3669
Title	: CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES	Examiner: Melton
Docket No.	: S974-012343	

PRELIMINARY AMENDMENT

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

FILED VIA EFS-WEB

November 1, 2022

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 3, 4, 6, 8 -12, and 16 - 21, and amend claims 2 and 7. such that the status of the claims is as follows:

1. (Previously Canceled)

2. (Amended) 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 sensor readings from a system of sensors, wherein the sensor readings describe a current operational state of a SDV;

determining based on the sensor readings, by one or more processors, whether a fault has occurred;

determining, by the one or more processors, whether the fault exceeds a threshold for danger;

determining a corrective action associated with the fault using a fault-remediation table;

the SDV implementing the corrective action;

wherein, the sensor readings comprise a reading from a GPS sensor;

the fault comprises a current weather condition of the roadway on which the SDV is currently traveling;

determining whether the fault exceeds a threshold for danger comprises determining a control processor competence level;

the corrective action comprises transferring driver controls to manual control and alerting a human driver to take over immediately.

3. (Cancelled) The computer program product of claim 2, wherein:

the sensor readings comprise a reading from a GPS sensor;
the fault comprises a current weather condition of the roadway on which the SDV is currently traveling;
determining whether the fault exceeds a threshold for danger comprises determining a control processor competence level;
the corrective action comprises transferring driver controls to manual control and alerting a human driver to take over immediately.

4. (Cancelled) The computer program product of claim 2, wherein:

the current operational state of the SDV comprises a physical state of a human driver;
the fault comprises a position of the human driver's hands;
determining whether the fault exceeds a threshold for danger comprises determining a competence level of the human driver;
the corrective action comprises alerting the human driver to take over immediately and reducing a speed of the SDV.

5. (Previously Presented) The computer program product of claim 2, wherein:

the sensor readings comprise a reading from a GPS sensor;
the fault comprises a road condition, wherein the road condition comprises an absence of lane markings;
determining whether the fault exceeds a threshold for danger comprises determining a control processor competence level;
the corrective action comprises transferring driver controls to manual control and alerting a human driver to take over immediately.

6. (Cancelled) The computer program product of claim 2, wherein:

the sensor readings comprise a reading from a GPS sensor;

the fault comprises a low battery;
determining a corrective action associated with the fault using a fault-remediation table comprises a weighted voting parameter;
the corrective action comprises re-routing the SDV.

7. (Amended) A self-driving vehicle (SDV) comprising:

a sensor system comprising a plurality of sensors;
vehicle controls comprising: engine throttle, steering mechanism, and braking system;
a computer system comprising a processor coupled to a non-transitory computer readable storage medium containing program code, the program code readable and executable by a processor;
the computer system is capable of receiving a sensor reading from the system of sensors;
the computer system is capable of operating the vehicle controls;
the computer system is capable of determining the operational state of the self-driving vehicle (SDV);
the computer system is capable of determining a vehicle fault;
the computer system is capable of determining a competence level of the processor;
the computer system is capable of determining competence level of a human driver;
the computer system is capable of determining a corrective action using the competence level of the processor and the competence level of the human driver;
the computer system is capable of implementing the corrective action; and
the computer system is capable of issuing an alert indicating the corrective action;
the system of sensors comprises a GPS sensor;
the operational state of the self-driving vehicle comprises a first road condition;
the vehicle fault comprises an absence of a sensor reading;

the corrective action comprises querying a database for the proper action to take.

8. (Cancelled) The SDV of claim 7, further comprising:

the system of sensors comprises a GPS sensor;
the operational state of the self-driving vehicle comprises a first road condition;
the vehicle fault comprises an absence of a sensor reading;
the corrective action comprises querying a database for the proper action to take.

9. (Cancelled) The SDV of claim 7, further comprising:

the system of sensors comprises a GPS sensor;
the operational state of the self-driving vehicle comprises the program code;
the competence level of the processor comprises a version of the program code;
the vehicle fault comprises the version of the program code not being a most current version;
the corrective action comprises alerting the human driver to update the program code to the most current version.

10. (Cancelled) The SDV of claim 7, further comprising:

the sensor system comprises sensors that detect a physical state of the human driver;
the sensor readings comprise an indication of a position of the human driver's hands;
the computer system determines the competence level of the processor using active learning data, said active learning data including information from other SDVs;
the computer system determines the competence level of the human driver using the sensor readings;
the corrective action is to transfer vehicle controls to the human driver;
the alert indicates take over immediately.

11. (Cancelled) The SDV of claim 7, further comprising:
- the system of sensors comprises a GPS sensor, a radar sensor, and a battery-level sensor;
 - the operational state of the self-driving vehicle comprises a first road condition;
 - the computer system determines the vehicle fault using a sensor reading as a weighted voting parameter;
 - the computer system determines the competence level of the processor using active learning data, said active learning data including information from other SDVs;
 - the computer system determines the competence level of the human driver using a fault remediation table;
 - the corrective action comprises the computer system using the engine throttle.
12. (Cancelled) The SDV of claim 7, further comprising:
- the sensor system comprises sensors that detect a physical state of the human driver;
 - the sensor readings comprise an indication of a position of the human driver's hands;
 - the computer system determines the corrective action using weighted voting, wherein a weighted voting parameter is determined based on active learning data, said active learning data including information from other SDVs;
 - the computer system determines the competence level of the human driver using the sensor readings;
 - the corrective action comprises the computer system using the engine throttle.
13. (Previously Presented) 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:
- determining a competence level of a human driver, wherein the competence level

describes a competence level of the human driver in controlling the SDV;
receiving sensor readings from a system of sensors about the competence level of the
human driver, wherein the SDV is operable to provide autonomous control of
driver controls comprising: engine throttle, steering mechanism, braking
system, and navigation;
determining a competence level of a processor;
determining a corrective action;
the SDV implementing the corrective action.

14. (Previously Presented) The computer program product of claim 13, wherein:
the sensor readings comprise a reading from a GPS sensor and a reading from a
speedometer;
determining the competence level of the processor comprises weighted voting;
determining the competence level of the human driver comprises weighted voting;
determining the corrective action comprises using active learning data, said active
learning data including information from other SDVs;
the corrective action comprises querying a database for the proper action to take.

15. (Previously Presented) The computer program product of claim 13, wherein:
the sensor readings comprise a reading from a GPS sensor, a reading from a radar
sensor, and a reading from a battery-level sensor;
determining the competence level of the processor comprises weighted voting,
wherein a sensor reading comprises a weighted voting parameter;
the weighted voting parameters comprise a number of inputs (N), an input's weight
(w), and a quota (q);
the corrective action comprises the processor controlling the engine throttle.

16. (Cancelled) The computer program product of claim 13, wherein:
the sensor readings comprise information about a current weather condition of a

roadway on which the SDV is currently traveling;
determining a corrective action comprises determining whether a fault has occurred
and whether the fault exceeds a threshold for danger;

17. (Cancelled) The computer program product of claim 16, wherein:
the current weather condition comprises reduced visibility of the roadway;
the processor determines whether a fault has occurred using active learning data, said
active learning data including information from other SDVs;
18. (Cancelled) The computer program product of claim 16, wherein:
the sensor readings comprise a reading from a GPS sensor;
determining whether the fault exceeds the threshold for danger comprises weighted
voting;
a weighted voting parameter comprises active learning data, said active learning data
including information from other SDVs.
19. (Cancelled) The computer program product of claim 16, wherein:
the sensor readings comprise information about the physical state of the human
driver;
determining the competence level of the human driver comprises using said
information about the physical state of the human driver;
the threshold for danger comprises the competence level of the human driver;
the corrective action comprises the processor controlling the engine throttle.
20. (Cancelled) The computer program product of claim 16, wherein:
the sensor readings comprise a reading from a GPS sensor;
determining the corrective action comprises using active learning data, said active
learning data including information from other SDVs;

the corrective action comprises querying a database for the proper action to take.

21. (Cancelled) The computer program product of claim 16, wherein:
- the sensor readings comprise a reading from a GPS sensor, a reading from a radar sensor, and a reading from a battery-level sensor;
 - the fault comprises a low battery;
 - the threshold for danger comprises a battery voltage;
 - the corrective action comprises re-routing the SDV.

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: November 1, 2022

By: /Ian MacKinnon/

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312 South Third Street
Minneapolis, MN 55415-1002
Telephone: (612) 339-1863
Fax: (612) 339-6580

IDM:nnc



ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
17/374,656

RECEIPT DATE / TIME
11/01/2022 06:12:53 PM ET

ATTORNEY DOCKET #
S974-012343

Title of Invention

CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES

Application Information

APPLICATION TYPE Utility - Nonprovisional Application
under 35 USC 111(a)

PATENT # -

CONFIRMATION # 8961

FILED BY Ian MacKinnon

PATENT CENTER # 61131075

FILING DATE 07/13/2021

CUSTOMER # 164

FIRST NAMED INVENTOR Michael S. Gordon

CORRESPONDENCE ADDRESS -

AUTHORIZED BY -

Documents

TOTAL DOCUMENTS: 3

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
2022-11-01_PRE_AMEND_S974-012343.pdf	10	-	112 KB
2022-11-01_PRE_AMEND_S974-012343-A.PE.pdf	(1-1) 1	Preliminary Amendment	83 KB
2022-11-01_PRE_AMEND_S974-012343-CLM.pdf	(2-9) 8	Claims	99 KB
2022-11-01_PRE_AMEND_S974-012343-REM.pdf	(10-10) 1	Applicant Arguments/Remarks Made in an Amendment	81 KB

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DOCUMENT	MESSAGE DIGEST(SHA-512)
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2022-11-01_PRE_AMEND_S974-012343-REM.pdf	76361A0D0A1453C28C8987E2A68E35E1FE380ED54844777C88F47C268FCB8EF6138D2DD8F9C0754B0307F87698213EE0DBB B6E5E26C2C25DB3F65401E9066D13

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KINNEY & LANGE, P.A.
312 SOUTH THIRD STREET
MINNEAPOLIS, MN 55415-1002

EXAMINER

MELTON, TODD M

ART UNIT

PAPER NUMBER

3669

DATE MAILED: 02/09/2023

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/374,656	07/13/2021	Michael S. Gordon	S974-012343	8961

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	05/09/2023

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 EFS-Web.

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 including the Patent, advance orders and notification of maintenance fees 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.

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

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.

164 7590 02/09/2023
KINNEY & LANGE, P.A.
312 SOUTH THIRD STREET
MINNEAPOLIS, MN 55415-1002

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 EFS-Web 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.
17/374,656	07/13/2021	Michael S. Gordon	S974-012343	8961

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	05/09/2023

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,

1 _____

(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.

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 ☐ Government4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

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

☐ Electronic Payment via EFS-Web ☐ 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☐ Applicant asserting small entity status. See 37 CFR 1.27☐ Applicant changing to regular undiscounted fee status.

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.

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.

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. _____



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.
17/374,656	07/13/2021	Michael S. Gordon	S974-012343	8961
164	7590	02/09/2023	EXAMINER	
KINNEY & LANGE, P.A. 312 SOUTH THIRD STREET MINNEAPOLIS, MN 55415-1002			MELTON, TODD M	
			ART UNIT	PAPER NUMBER
			3669	
DATE MAILED: 02/09/2023				

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.

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.

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) 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 the law.

Notice of Allowability	Application No. 17/374,656	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 13 July 2021.
☐ 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 2,5,7 and 13-15. 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 13 July 2021. Claims 2, 5, 7 and 13-15 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) is acknowledged. The prior art of record in the parent applications has been reviewed.

Information Disclosure Statement

The IDSes received on 12 October 2021 and 19 October 2022 have been considered.

Allowable Subject Matter

Claims 2, 5, 7 and 13-15 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 by independent claims 2, 7 and 13. Claims 5 and 14-15 are allowable at least for their dependence on claim 2 or 13.

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

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.

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, John Olszewski can be reached on 571-272-2706. 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

Art Unit: 3669

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

Notice of References Cited	Application/Control No. 17/374,656		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 MM-YYYY	Name	CPC Classification	US Classification
*	A	US-9454152-B2	09-2016	Kopetz; Hermann	B60W50/12	1/1
*	B	US-9650058-B2	05-2017	Schiek; Ulrich	B60K37/06	1/1
*	C	US-10101742-B2	10-2018	Prokhorov; Danil V.	B60W30/12	1/1
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	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 MM-YYYY format are publication dates. Classifications may be US or foreign.

<i>Search Notes</i> 	Application/Control No. 17/374,656	Applicant(s)/Patent Under Reexamination Gordon et al.
	Examiner Todd Melton	Art Unit 3669

CPC - Searched*		
Symbol	Date	Examiner

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

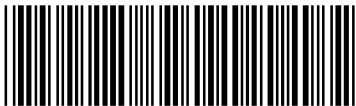
US Classification - Searched*			
Class	Subclass	Date	Examiner

* 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	01/28/2023	tm
CPC classification search	01/28/2023	tm
claims search by keyword	01/28/2023	tm

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
B60W	50/0098,12	01/28/2023	tm
B60W	40/10,08,06	01/28/2023	tm
G05D	1/0061	01/28/2023	tm
B60W	2050/0072	01/28/2023	tm

/TODD MELTON/ Primary Examiner, Art Unit 3669	
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Issue Classification 	Application/Control No. 17/374,656	Applicant(s)/Patent Under Reexamination Gordon et al.	
	Examiner Todd Melton	Art Unit 3669	

CPC						
Symbol					Type	Version
B60W	/	50	/	12	F	2013-01-01
G05D	/	1	/	0061	I	2013-01-01
B60W	/	50	/	0098	I	2013-01-01
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
G05D	/	2201	/	0213	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	/	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

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 6	
/TODD MELTON/ Primary Examiner, Art Unit 3669 (Primary Examiner) _____ (Date) _____		O.G. Print Claim(s) 1	O.G. Print Figure 5

Issue Classification 	Application/Control No. 17/374,656	Applicant(s)/Patent Under Reexamination Gordon et al.	
	Examiner Todd Melton	Art Unit 3669	

INTERNATIONAL CLASSIFICATION				
CLAIMED				
B60W50/12	/	50	/	12
G05D1/00	/	1	/	00
B60W50/00	/	50	/	00
B60W40/06	/	40	/	06
B60W40/08	/	40	/	08
B60W40/10	/	40	/	10
NON-CLAIMED				
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: 6	
/TODD MELTON/ Primary Examiner, Art Unit 3669 (Primary Examiner) _____ (Date) _____		O.G. Print Claim(s) 1	O.G. Print Figure 5

Issue Classification 	Application/Control No. 17/374,656	Applicant(s)/Patent Under Reexamination Gordon et al.
	Examiner Todd Melton	Art Unit 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	2														
2	5														
3	7														
4	13														
5	14														
6	15														

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 6	
/TODD MELTON/ Primary Examiner, Art Unit 3669 (Primary Examiner) _____ (Date) 28 January 2023		O.G. Print Claim(s) 1	O.G. Print Figure 5

Doc code: IDS

PTO/SB/08a (02-18)

Doc description: Information Disclosure Statement (IDS) Filed

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 17374656

Filing Date 2021-07-13

First Named Inventor Michael S. Gordon

Art Unit

Examiner Name

Attorney Docket Number S974-012343

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	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	17374656
Filing Date	2021-07-13
First Named Inventor	Michael S. Gordon
Art Unit	
Examiner Name	
Attorney Docket Number	S974-012343

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.	
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First Named Inventor	Michael S. Gordon
Art Unit	
Examiner Name	
Attorney Docket Number	S974-012343

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Name/Print	Ian D. MacKinnon	Registration Number	34,660

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

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CONTINUING DATA

This application is a CON of 16997202 08/19/2020 PAT 11091171

16997202 is a CON of 16899407 06/11/2020ABN

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PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
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L5	3398	((Gordon near2 Michael) OR (Kozloski near2 James) OR (Kundu near2 Ashish) OR (Malkin near2 Peter) OR (Pickover near2 Clifford)) [ingp]	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/01/28 12:18 PM
L6	829	L5 AND vehicle	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/01/28 12:18 PM
L7	326	L6 AND (autonom\$ OR driverless OR self- driving)	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/01/28 12:19 PM
L8	287	("10101742" "10150473 " "10173673" "1029382 6" "10317231" "103188 23" "10449957" "10572 744" "20020026841" "2 0020128774" "2003004 0864" "20030065572" " 20030076981" "200400 78133" "20040117086" " "20040199306" "20050 021227" "20050104745 " "20060106671" "2006 0163939" "2006020037 9" "20060241855" "200 70100687" "200701240 27" "20080048850" "20	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/01/28 12:38 PM

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		"20150153735" "20150160019" "20150166059" "20150175070" "20150178998" "20150196256" "20150210274" "20150210275" "20150210276" "20150210277" "20150210278" "20150210280" "20150210312" "20150232065" "20150234045" "20150242953" "20150293994" "20150332104" "20150332114" "20150336547" "20150338226" "20150339639" "20150354976" "20150367850" "20160001781" "20160026182" "20160046290" "20160052514" "20160063761" "20160075512" "2016007695" "20160078758" "20160090100" "20160139594" "20160140507" "20160167650" "20160176409" "20160202700" "20160205146" "20160229410" "20160303969" "20160304122" "20160334797" "20160344737" "20160347322" "20160355192" "20160358477" "20160364823" "2016037001650" "20170010613" "20170021837" "20170057542" "20170088143" "20170098131" "20170106876" "20170123428" "20170129487" "20170137023" "20170151958" "20170168689" "20170200449" "20170248949" "20180075309" "20180093631" "4665395" "4908988" "5975791" "6064970" "6201318" "6326903" "6393362" "6502035" "6587043" "6622082" "6704621" "6731202" "6810312" "7113867" "7124088" "7151996" "7580782" "7769544" "7877269" "7894951" "7979173" "8031062" "8045455" "8078349" "8090598" "8139109" "8140358" "8146703" "8152325" "8180322" "8					
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L10	1	("9365213") [pn]	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/01/28 12:40 PM
L11	5	(Slingshot IOT) [aanm,as]	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/01/28 12:41 PM
L12	13228385	vehicle OR car OR automobile	(FIT (CN, EP, FR, JP, KR, WO))	ADJ	ON	ON	2023/01/28 01:07 PM
L13	542195	L12 AND (autonom\$ OR self-driving OR driverless)	(FIT (CN, EP, FR, JP, KR, WO))	ADJ	ON	ON	2023/01/28 01:07 PM
L14	197945	L13 AND (handover OR override OR manual OR handing over OR overriding OR manually)	(FIT (CN, EP, FR, JP, KR, WO))	ADJ	ON	ON	2023/01/28 01:07 PM
L15	121169	L14 AND (risk OR	(FIT (CN, EP, FR, JP,	ADJ	ON	ON	2023/01/28

		danger OR hazard OR risky OR dangerous OR hazardous OR difficult OR difficulty)	KR, WO))				01:08 PM
L16	3517	L15 AND (weather OR ice OR snow OR icy OR snowy) near2 (road OR roadway)	(FIT (CN, EP, FR, JP, KR, WO))	ADJ	ON	ON	2023/01/28 01:08 PM
L17	3146	L16 AND (threshold OR limit OR capability)	(FIT (CN, EP, FR, JP, KR, WO))	ADJ	ON	ON	2023/01/28 01:09 PM
L18	1334	L17 AND (table OR lookup OR look-up OR look up OR LUT)	(FIT (CN, EP, FR, JP, KR, WO))	ADJ	ON	ON	2023/01/28 01:10 PM
L20	213	B60W2050/0072 [cpc]	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/01/28 01:25 PM
L21	3599	B60W50/0098,12 [cpc]	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/01/28 01:32 PM
L22	6895	B60W40/10,08,06 [cpc]	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/01/28 01:33 PM
L23	3210	G05D1/0061 [cpc]	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/01/28 01:33 PM
L24	652	L23 AND (L20 OR L21 OR L22)	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/01/28 01:33 PM
L25	296	L24 AND (weather OR snow OR ice OR snowy OR icy) SAME (road OR roadway OR pavement)	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/01/28 01:45 PM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N1	935753	(vehicle OR car OR automobile) [clm]	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/01/28 02:02 PM
N2	30192	N1 AND (autonom\$ OR driverless OR self-driving) [clm]	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/01/28 02:02 PM
N3	1922	N2 AND (weather OR snow OR snowy OR ice OR icy) [clm]	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/01/28 02:03 PM
N4	1107	N3 AND (road OR roadway OR pavement OR surface) [clm]	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/01/28 02:03 PM
N5	612	N4 AND (driver OR occupant OR user OR operator) [clm]	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/01/28 02:03 PM
N6	40	N5 AND (handover OR takeover OR hand over OR take over OR handing over OR taking over OR override OR	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/01/28 02:04 PM

		overriding) [clm]					
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Doc code: IDS

PTO/SB/08a (02-18)

Doc description: Information Disclosure Statement (IDS) Filed

Approved for use through 11/30/2020. OMB 0651-0031

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		17374656	
	Filing Date		2021-07-13	
	First Named Inventor		Michael S. Gordon	
	Art Unit			
	Examiner Name			
	Attorney Docket Number		S974-012343	

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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	9365213	B2	2016-06-14	STENNETH, et al.	

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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	

**INFORMATION DISCLOSURE
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First Named Inventor	Michael S. Gordon	
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Examiner Name		
Attorney Docket Number		S974-012343

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Examiner Signature	/TODD MELTON/	Date Considered	01/28/2023
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*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.

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First Named Inventor	Michael S. Gordon
Art Unit	
Examiner Name	
Attorney Docket Number	S974-012343

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)	2022-10-19
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.**

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

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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.
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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.

Doc code: IDS

PTO/SB/08a (02-18)

Doc description: Information Disclosure Statement (IDS) Filed

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Examiner Name	
Attorney Docket Number	S974-012343

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	1	1135063	CN	A	1996-11-06	DUAN YAXI		×
	2	0582236	EP	B1	1998-06-03	TAKATA CORPORATION		□
	3	2349068	CN	Y	1999-11-17	LI XIHUA		☒

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Attorney Docket Number		S974-012343

4	2392578	CA	A1	2001-05-31	MOBILEYE, INC.	☐
5	2392652	CA	A1	2001-05-31	MOBILEYE, INC.	☐
6	1236126	EP	A1	2002-09-04	MOBILEYE, INC.	☐
7	1257971	EP	A2	2002-11-20	MOBILEYE, INC.	☐
8	1257971	EP	A4	2005-07-06	MOBILEYE, INC.	☐
9	1727089	EP	A2	2006-11-29	MOBILEYE TECHNOLOGIES, LTD.	☐
10	1727089	EP	A3	2007-09-19	MOBILEYE TECHNOLOGIES, LTD.	☐
11	201004265	CN	Y	2008-01-09	XU FADIAN	☒
12	1622072	EP	B1	2010-07-07	SONY FRANCE S.A.	☐
13	202012052	CN	U	2011-10-19	MA MENGSHENG	☒
14	202038228	CN	U	2011-11-16	NANJING INSTITUTE OF TECHNOLOGY	☒

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15	102650882	CN	A	2012-08-29	WUXI WISHTAR ELECTRONIC TECHNOLOGY CO., LTD.	☒
16	202772924	CN	U	2013-03-06	ZHEJIANG GELA WEIBAO GLASS TECHNOLOGY CO., LTD.	☒
17	2605185	EP	A2	2013-06-19	MOBILEYE TECHNOLOGIES LIMITED	☐
18	2014058263	WO	A1	2014-04-17	JO, MIN SUNG; KANG, SEOK HYUN	☒
19	2014066721	WO	A2	2014-05-01	COSMETIC TECHNOLOGIES, LLC	☐
20	2014066721	WO	A3	2014-06-26	COSMETIC TECHNOLOGIES, LLC	☐
21	2605185	EP	A3	2014-07-09	MOBILEYE TECHNOLOGIES LIMITED	☐
22	2014147361	WO	A1	2014-09-25	MASSIVE ANALYTIC LTD.	☐
23	2014148975	WO	A1	2014-09-25	SCANIA CV AB	☐
24	2014148976	WO	A1	2014-09-25	SCANIA CV AB	☐
25	2015024616	WO	A1	2015-02-26	AUDI AG	☒

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26	2015056105	WO	A1	2015-04-23	MOBILEYE VISION TECHNOLOGIES LTD.		☐
27	2015083009	WO	A1	2015-06-11	MOBILEYE VISION TECHNOLOGIES LTD.		☐
28	2015125022	WO	A2	2015-08-27	MOBILEYE VISION TECHNOLOGIES LTD.		☐
29	104900018	CN	A	2015-09-09	CHANGSHA COMMERCE & TOURISM COLLEGE		☒
30	2015156146	WO	A1	2015-10-15	HITACHI AUTOMOTIVE SYSTEMS, LTD.		☒
31	2015125022	WO	A3	2015-11-26	MOBILEYE VISION TECHNOLOGIES LTD.		☐
32	2015186002	WO	A2	2015-12-10	MOBILEYE VISION TECHNOLOGIES LTD.		☐
33	2015189847	WO	A1	2015-12-17	MOBILEYE VISION TECHNOLOGIES LTD.		☐
34	2016027270	WO	A1	2016-02-25	MOBILEYE VISION TECHNOLOGIES LTD.		☐
35	2015186002	WO	A3	2016-03-31	MOBILEYE VISION TECHNOLOGIES LTD.		☐
36	106030609	CN	A	2016-10-12	MOBILEYE VISION TECHNOLOGIES LTD		☒

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First Named Inventor	Michael S. Gordon	
Art Unit		
Examiner Name		
Attorney Docket Number		S974-012343

37	3092599	EP	A1	2016-11-16	MOBILEYE VISION TECHNOLOGIES LTD.		☐
38	3100206	EP	A1	2016-12-07	Mobileye Vision Technologies Ltd.		☐
39	3108264	EP	A2	2016-12-28	Mobileye Vision Technologies Ltd.		☐
40	106462727	CN	A	2017-02-22	MOBILEYE VISION TECHNOLOGIES LTD.		☒
41	3143607	EP	A1	2017-03-22	Mobileye Vision Technologies Ltd.		☐
42	3146506	EP	A2	2017-03-29	Mobileye Vision Technologies Ltd.		☐
43	3152704	EP	A2	2017-04-12	Mobileye Vision Technologies Ltd.		☐
44	3154835	EP	A1	2017-04-19	Mobileye Vision Technologies Ltd.		☐
45	3183688	EP	A1	2017-06-28	Mobileye Vision Technologies Ltd.		☐
46	107111742	CN	A	2017-08-29	MOBILEYE VISION TECHNOLOGIES LTD		☒
47	3092599	EP	B1	2019-03-06	Mobileye Vision Technologies Ltd.		☐

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(Not for submission under 37 CFR 1.99)

Application Number		17374656
Filing Date		2021-07-13
First Named Inventor	Michael S. Gordon	
Art Unit		
Examiner Name		
Attorney Docket Number		S974-012343

48	3514032	EP	A1	2019-07-24	Mobileye Vision Technologies Ltd.	☐
49	3146506	EP	B1	2019-12-11	Mobileye Vision Technologies Ltd.	☐
50	110920609	CN	A	2020-03-27	MOBILEYE VISION TECHNOLOGIES LTD.	☒

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

NON-PATENT LITERATURE DOCUMENTS

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		

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature	/TODD MELTON/	Date Considered	01/28/2023
--------------------	---------------	-----------------	------------

*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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17374656
Filing Date	2021-07-13
First Named Inventor	Michael S. Gordon
Art Unit	
Examiner Name	
Attorney Docket Number	S974-012343

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)	2021-10-12
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.**

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 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.

Electronic Acknowledgement Receipt

EFS ID:	47857685
Application Number:	17374656
International Application Number:	
Confirmation Number:	8961
Title of Invention:	CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES
First Named Inventor/Applicant Name:	Michael S. Gordon
Customer Number:	164
Filer:	James Jerome Kerber
Filer Authorized By:	
Attorney Docket Number:	S974-012343
Receipt Date:	18-APR-2023
Filing Date:	13-JUL-2021
Time Stamp:	09:40:37
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment after Notice of Allowance (Rule 312)	2023-04-18_AmendmentAfterAllowance.pdf	166220 840cb935cda984b1af253fa837db39be13a24aca	no	4

Warnings:

IPR2025-00944

Information:	
Total Files Size (in bytes):	166220
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. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a 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. <u>National Stage of an International Application under 35 U.S.C. 371</u> 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. <u>New International Application Filed with the USPTO as a Receiving Office</u> 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.	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor	: Michael S. Gordon	
Appln. No.	: 17/374,656	Confirmation No.: 8961
Filed	: 07/13/2021	Group Art Unit: 3669
Title	: CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES	Examiner: Todd M. Melton
Docket No.	: S974-012343	

AMENDMENT AFTER ALLOWANCE

Mail Stop Amendment
Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

FILED VIA EFS-WEB

April 18, 2023

INTRODUCTION

This amendment after allowance is an amendment to resolve a clerical error in the specification. Applicant respectfully requests the above-identified application is amended as follows:

AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0001] of the specification with the following replacement paragraph, with changes as marked.

This application is a continuation of U.S. patent application Ser. No. 16/997,202, filed Aug. 19, 2020, which is a continuation of U.S. App. No. 16/899,407, filed June 11, 2020, which is a continuation of U.S. Pat. No. 10,717,446, filed Apr. 18, 2018, which is a continuation of U.S. Pat. No. 10,029,701, filed on Nov. 2, 2016, which is a continuation of U.S. Pat. No. 9,566,986, filed on Sep. 25, 2015, incorporated by reference herein.

REMARKS

This amendment after allowance is an amendment to resolve a clerical error in paragraph [0001] of the specification which was not previously identified. The first paragraph of the specification under the heading “CROSS-REFERENCE TO RELATED APPLICATIONS” failed to list a now abandoned application which was correctly listed on the ADS and on the cover page of the allowed patent under “Related U.S. Application Data.” Since the priority data was correctly listed in the ADS, as required by MPEP 211.02 (II), no additional search or examination is needed.

CONCLUSION

The applicant again thanks the Examiner for the notice of allowance and respectfully requests that Examiner enter the amendment after allowance.

The Examiner is cordially invited to contact the undersigned at the telephone number listed below if such a call would in any way facilitate the entrance of this amendment.

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

Respectfully submitted,

KINNEY & LANGE, P.A.

Date: 04/18/2033

By: James J. Kerber
James J. Kerber, Reg. No. 79,560
312 South Third Street
Minneapolis, MN 55415-1002
Telephone: (612) 339-1863
Fax: (612) 339-6580



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.
17/374,656	07/13/2021	Michael S. Gordon	S974-012343	8961
164	7590	04/27/2023	EXAMINER	
KINNEY & LANGE, P.A.			MELTON, TODD M	
312 SOUTH THIRD STREET			ART UNIT	
MINNEAPOLIS, MN 55415-1002			PAPER NUMBER	
			3669	
			NOTIFICATION DATE	
			DELIVERY MODE	
			04/27/2023	
			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

Supplemental Notice of Allowability	Application No. 17/374,656	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 amendment under Rule 312 received on 18 April 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 2,5,7 and 13-15. 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 <u>PTO-271</u> .
--	--

/TODD MELTON/ Primary Examiner, Art Unit 3669	
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Response to Rule 312 Communication	Application No.	Applicant(s)	
	17/374,656	Gordon et al.	
	Examiner	Art Unit	AIA (FITF) Status
	Todd Melton	3669	Yes

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

1. ☒ The amendment filed on 18 April 2023 under 37 CFR 1.312 has been considered, and has been:

a) ☐ entered.

b) ☒ entered as directed to matters of form not affecting the scope of the invention.

c) ☐ disapproved because the amendment was filed after the payment of the issue fee.
Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.

d) ☐ disapproved. See explanation below.

e) ☐ entered in part. See explanation below.

f) ☐ not entered because the supplemental or corrected Application Data sheet (ADS)

☐ was not accompanied by a petition to accept an unintentionally delayed claim under 37 CFR 1.55 or 27 CFR 1.78;

☐ did not identify the information being changed in accordance with 37 CFR 1.76(c)(2);

☐ was not properly signed in accordance with 37 CFR 1.76(e) (or 37 CFR 1.33(b) for applications filed prior to September 16, 2012).

/TODD MELTON/ Primary Examiner, Art Unit 3669	
--	--

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor	: Michael S. Gordon	
Appln. No.	: 17/374,656	Confirmation No.: 8961
Filed	: 07/13/2021	Group Art Unit: 3669
Title	: CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES	Examiner: Todd M. Melton
Docket No.	: S974-012343	

AMENDMENT AFTER ALLOWANCE

Mail Stop Amendment
Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

FILED VIA EFS-WEB

April 18, 2023

INTRODUCTION

This amendment after allowance is an amendment to resolve a clerical error in the specification. Applicant respectfully requests the above-identified application is amended as follows:

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.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 17/374,656	Filing Date 07/13/2021	☐ To be Mailed
---	--	---------------------------	---------------------------------------

ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE (\$)	FEE (\$)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 = *		x \$100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 = *		x \$480 =	
☐ 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).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT	05/09/2023	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	x \$100 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0	x \$480 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	0
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x \$0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$0 =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.						Non-Examiner	
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".						/RICARDO ANTONIO CAMOU/	
*** 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 number found in the appropriate box in column 1.							

This collection of information is required by 37 CFR 1.16. 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 12 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.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL **(Submitted Only via EFS-Web)**

Application Number	17374656	Filing Date	2021-07-13	Docket Number (if applicable)	S974-012343	Art Unit	3669
First Named Inventor	Michael S. Gordon			Examiner Name	Todd M. Melton		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.

Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

☐ Other _____

☒ Enclosed

☒ Amendment/Reply

☐ Information Disclosure Statement (IDS)

☐ Affidavit(s)/ Declaration(s)

☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____
 (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

☒ The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 110982

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

Applicant Signature

Signature of Registered U.S. Patent Practitioner			
Signature	Ian D. MacKinnon/	Date (YYYY-MM-DD)	2023-05-09
Name	Ian D. MacKinnon	Registration Number	34660

This collection of information is required by 37 CFR 1.114. 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 12 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.

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

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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 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.



ELECTRONIC PAYMENT RECEIPT

APPLICATION #
17/374,656

RECEIPT DATE / TIME
05/09/2023 04:29:08 PM ET

ATTORNEY DOCKET #
S974-012343

Title of Invention

CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES

Application Information

APPLICATION TYPE Utility - Nonprovisional Application
under 35 USC 111(a)

PATENT # -

CONFIRMATION # 8961

FILED BY Ian MacKinnon

PATENT CENTER # 62062898

AUTHORIZED BY -

CUSTOMER # 164

FILING DATE 07/13/2021

CORRESPONDENCE
ADDRESS -

FIRST NAMED
INVENTOR Michael S. Gordon

Payment Information

PAYMENT METHOD
DA / 110982

PAYMENT TRANSACTION ID
E202359G30067222

PAYMENT AUTHORIZED BY
Ian MacKinnon

PRE-AUTHORIZED ACCOUNT
110982

PRE-AUTHORIZED CATEGORY
37 CFR 1.16 (National application filing, search, and examination fees); 37
CFR 1.17 (Patent application and reexamination processing fees); 37 CFR 1.19
(Document supply fees); 37 CFR 1.20 (Post issuance fees); 37 CFR 1.21
(Miscellaneous fees and charges)

FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
1801	REQUEST FOR CONTINUED EXAMINATION (RCE) - 1ST REQUEST (SEE 37 CFR 1.114)	1360.00	1	1360.00
1201	EACH INDEPENDENT CLAIM IN EXCESS OF THREE	480.00	1	480.00
TOTAL AMOUNT:				\$1,840.00

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.

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.

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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.



ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
17/374,656

RECEIPT DATE / TIME
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ATTORNEY DOCKET #
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FILED BY Ian MacKinnon

PATENT CENTER # 62062898

FILING DATE 07/13/2021

CUSTOMER # 164

FIRST NAMED INVENTOR Michael S. Gordon

CORRESPONDENCE ADDRESS -

AUTHORIZED BY -

Documents

TOTAL DOCUMENTS: 4

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
2023-05-09_RCE_Amendment.pdf		15	-	153 KB
2023-05-09_RCE_Amendment-AMSB.pdf	(1-1)	1	Amendment Submitted/Entered with Filing of Continued Prosecution Application (CPA)/Request for Continued Examination(RCE)	84 KB
2023-05-09_RCE_Amendment-CLM.pdf	(2-13)	12	Claims	138 KB
2023-05-09_RCE_Amendment-	(14-15)	2	Applicant Arguments/Remarks Made in an Amendment	116 KB

REM.pdf

2023-05-09_RCE_S974.12-
343.pdf

3

Request for Continued
Examination (RCE)

681 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
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National Stage of an International Application under 35 U.S.C. 371

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IPR2025-00944

Tesla EX1002 Page 3420

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor	: Michael S. Gordon	
Appln. No.	: 17/374,656	Confirmation No.: 8961
Filed	: 07/13/2021	Group Art Unit: 3669
Title	: CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES	Examiner: Todd M. Melton
Docket No.	: S974-012343	

RCE AMENDMENT

Mail Stop Patents
Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

FILED VIA EFS-WEB

May 09, 2023

INTRODUCTION

This amendment accompanies the RCE filed on May 9, 2023. The amendments to the claims are as follows:

AMENDMENTS TO THE CLAIMS

1. (Canceled)

2. (Previously Presented) 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 sensor readings from a system of sensors, wherein the sensor readings describe a current operational state of a SDV;

determining based on the sensor readings, by one or more processors, whether a fault has occurred;

determining, by the one or more processors, whether the fault exceeds a threshold for danger;

determining a corrective action associated with the fault using a fault-remediation table;

the SDV implementing the corrective action;

wherein, the sensor readings comprise a reading from a GPS sensor;

the fault comprises a current weather condition of the roadway on which the SDV is currently traveling;

determining whether the fault exceeds a threshold for danger comprises determining a control processor competence level;

the corrective action comprises transferring driver controls to manual control and alerting a human driver to take over immediately.

3. (Canceled)

4. (Canceled)

5. (Previously Presented) The computer program product of claim 2, wherein:

the sensor readings comprise a reading from a GPS sensor;

the fault comprises a road condition, wherein the road condition comprises an absence of lane markings;

determining whether the fault exceeds a threshold for danger comprises determining a control processor competence level;

the corrective action comprises transferring driver controls to manual control and alerting a human driver to take over immediately.

6. (Canceled)

7. (Previously Presented) A self-driving vehicle (SDV) comprising:

a sensor system comprising a plurality of sensors;

vehicle controls comprising: engine throttle, steering mechanism, and braking system;

a computer system comprising a processor coupled to a non-transitory computer readable storage medium containing program code, the program code readable and executable by a processor;

the computer system is capable of receiving a sensor reading from the system of sensors;

the computer system is capable of operating the vehicle controls;

the computer system is capable of determining the operational state of the self-driving vehicle (SDV);

the computer system is capable of determining a vehicle fault;

the computer system is capable of determining a competence level of the processor;

the computer system is capable of determining competence level of a human driver;
the computer system is capable of determining a corrective action using the competence level of the processor and the competence level of the human driver;
the computer system is capable of implementing the corrective action; and
the computer system is capable of issuing an alert indicating the corrective action;
the system of sensors comprises a GPS sensor;
the operational state of the self-driving vehicle comprises a first road condition;
the vehicle fault comprises an absence of a sensor reading;
the corrective action comprises querying a database for the proper action to take.

8–12. (Canceled)

13. (Previously Presented) 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:

determining a competence level of a human driver, wherein the competence level describes a competence level of the human driver in controlling the SDV;
receiving sensor readings from a system of sensors about the competence level of the human driver, wherein the SDV is operable to provide autonomous control of driver controls comprising: engine throttle, steering mechanism, braking system, and navigation;
determining a competence level of a processor;
determining a corrective action;
the SDV implementing the corrective action.

14. (Previously Presented) The computer program product of claim 13, wherein:

the sensor readings comprise a reading from a GPS sensor and a reading from a speedometer;

determining the competence level of the processor comprises weighted voting;

determining the competence level of the human driver comprises weighted voting;

determining the corrective action comprises using active learning data, said active learning data including information from other SDVs;

the corrective action comprises querying a database for the proper action to take.

15. (Previously Presented) The computer program product of claim 13, wherein:

the sensor readings comprise a reading from a GPS sensor, a reading from a radar sensor, and a reading from a battery-level sensor;

determining the competence level of the processor comprises weighted voting, wherein a sensor reading comprises a weighted voting parameter;

the weighted voting parameters comprise a number of inputs (N), an input's weight (w), and a quota (q);

the corrective action comprises the processor controlling the engine throttle.

16–21. (Canceled)

22. (New) The computer program product of claim 2, further comprising:

determining the control processor competence level comprises using a weighted voting system, the weighted voting system comprising:

a first plurality of inputs and a first plurality of weights, wherein the first plurality of inputs comprise sensor readings from a first camera sensor; and

multiplying at least one of the first plurality of inputs by a weight from among the first plurality of weights;

wherein the first plurality of weights are based on active learning data; and

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

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

when the fault does not exceed the threshold for danger, the SDV autonomously controls the driver controls, wherein said driver controls comprise: engine throttle, steering mechanism, braking system, and navigation;

the SDV autonomously maintains a buffer of space from other vehicles around the SDV and the SDV autonomously controls the steering of the SDV while autonomously controlling the driver controls, without requiring the human driver to operate the driver controls; and

when the fault exceeds the threshold for danger, the SDV takes the corrective action.

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

determining a competence level of a human driver, comprising using the weighted voting system, the weighted voting system further comprising:

a second plurality of inputs and a second plurality of weights, wherein the second plurality of inputs comprise sensor readings from a second camera sensor; and

multiplying at least one of the second plurality of inputs by a weight from among the second plurality of weights;

wherein the second plurality of weights are based on active learning data that includes information about a cohort of human drivers of other SDVs.

25. (New) The computer program product of claim 13, further comprising:

determining the competence level of the human driver comprises using a weighted voting system, the weighted voting system comprising:

a plurality of inputs and a plurality of weights, the plurality of inputs comprising sensor readings from a camera sensor; and

multiplying at least one of the plurality of inputs by a weight from among the plurality of weights;

wherein the plurality of weights are based on active learning data that includes information about a cohort of human drivers of other SDVs.

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

when the competence level of the human driver is above a first threshold, the SDV autonomously controls the driver controls without requiring the human driver to operate the driver controls;

the SDV autonomously maintains a buffer of space from other vehicles around the SDV and the SDV autonomously controls the steering of the SDV while the SDV autonomously controls the driver controls, without requiring the human driver to operate the driver controls;

when the competence level of the human driver is below a second threshold,
determining that a first fault has occurred;
determining the corrective action comprises determining a first corrective action
corresponding to the first fault; and
the first corrective action comprises issuing an alert while the SDV provides
autonomous control of the driver controls without requiring the human
driver to operate the driver controls.

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

when the competence level of the human driver is below a third threshold after
taking the first corrective action, determining that a second fault has
occurred;
determining the corrective action further comprises determining a second
corrective action corresponding to the second fault; and
the second corrective action comprises transferring driver controls to manual
control and alerting the human driver to take over.

28. (New) The computer program product of claim 13, further comprising:

determining the competence level of the processor comprises using a weighted
voting system, the weighted voting system comprising:
a plurality of inputs and a plurality of weights, wherein the plurality of
inputs comprise sensor readings from a camera sensor; and
multiplying at least one of the plurality of inputs by a weight from among the
plurality of weights;
wherein the plurality of weights are based on active learning data; and

wherein the active learning data includes condition data from a 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.

29. (New) The computer program product of claim 13, 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 sensor readings from a first camera sensor; and

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 human drivers of other SDVs;

determining the competence level of the processor 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 sensor readings from a second camera sensor; 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 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;

the first camera sensor is different from the second camera sensor, the first plurality of inputs is different from the second plurality of inputs, and the first plurality of weights is different from the second plurality of weights;

when the competence level of the human driver is above a first threshold, the SDV autonomously controls the driver controls without requiring the human driver to operate the driver controls;

the SDV autonomously maintains a buffer of space from other vehicles around the SDV and the SDV autonomously controls the steering of the SDV while the SDV autonomously controls the driver controls, without requiring the human driver to operate the driver controls;

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

determining the corrective action comprises determining a first corrective action corresponding to the first fault; and

the first corrective action comprises issuing an alert while the SDV autonomously controls the driver controls without requiring the human driver to operate the driver controls.

30. (New) The computer program product of claim 29, further comprising:

when the competence level of the human driver is below a third threshold, after taking the first corrective action, determining that a second fault has occurred;

determining the corrective action further comprises determining a second

corrective action corresponding to the second fault; and
the second corrective action comprises transferring driver controls to manual control and alerting the human driver to take over.

31. (New) The computer program product of claim 30, further comprising:

when the competence level of the processor is below a fourth threshold,
determining that a third fault has occurred;
determining the corrective action further comprises determining a third corrective action corresponding to the third fault;
determining the corrective action further comprises using a fault remediation table;
and
the fault remediation table comprises the first fault, the second fault, and the third fault.

32. (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 sensor readings from a system of sensors, wherein the sensor readings describe a current operational state of a SDV;
determining based on the sensor readings, by one or more processors, whether a fault has occurred;
determining, by the one or more processors, whether the fault exceeds a threshold for danger;
determining a corrective action associated with the fault using a fault-remediation

table; and

the SDV implementing the corrective action;

wherein:

the sensor readings comprise a reading from a GPS sensor;

the fault comprises a current weather condition of a roadway on which the SDV is currently traveling;

determining whether the fault exceeds the threshold for danger comprises determining a control processor competence level; and

the corrective action comprises transferring driver controls to manual control and alerting a human driver to take over.

33. (New) The computer program product of claim 32, further comprising:

determining the control processor competence level comprises using a weighted voting system, the weighted voting system comprising:

a first plurality of inputs and a first plurality of weights, wherein the first plurality of inputs comprise sensor readings from a first camera sensor; and

multiplying at least one of the first plurality of inputs by a weight from among the first plurality of weights;

wherein the first plurality of weights are based on active learning data; and

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

34. (New) The computer program product of claim 33, further comprising:
- when the fault does not exceed the threshold for danger, the SDV autonomously controls the driver controls, wherein said driver controls comprise: engine throttle, steering mechanism, braking system, and navigation;
- the SDV autonomously maintains a buffer of space from other vehicles around the SDV and the SDV autonomously controls the steering of the SDV while the SDV autonomously controls the driver controls, without requiring the human driver to operate the driver controls; and
- when the fault exceeds the threshold for danger, the SDV takes the corrective action.
35. (New) The computer program product of claim 34, further comprising:
- determining a competence level of a human driver, comprising using the weighted voting system, the weighted voting system further comprising:
- a second plurality of inputs and a second plurality of weights, wherein the second plurality of inputs comprise sensor readings from a second camera sensor; and
- multiplying at least one of the second plurality of inputs by a weight from among the second plurality of weights;
- wherein the second plurality of weights are based on active learning data that includes information about a cohort of human drivers of other SDVs.

REMARKS

This amendment accompanies the Request for Continued Examination filed on May 9, 2023, after the Notice of Allowance. Claims 1–21 remain unchanged from the notice of allowance, specifically claims 1, 3, 4, 6, 8–12, and 16–21 remain canceled while claims 2, 5, 7, 13–15 remain pending. Claims 22–35 are new herewith.

Previously presented claims

Independent claims 2, 7, and 13 were indicated as allowable by the Notice of Allowance and claims 5 and 14–15 were indicated as allowable at least for their dependence on claims 2 or 13.

As such, claims 2, 5, 7, 13–15 are allowable for the reasons presented above.

New Claims

Claims 22–31 variously depend on claims 2 and 13 which were indicated as allowable by the Notice of Allowance. Therefore claims 22–31 are allowable by virtue of their dependence on claims 2 and 13.

Claim 32 is a newly presented independent claim with substantially similar subject matter to claim 2, which was indicated as allowable by the Notice of Allowance. Claim 32 has been amended to remove the word “immediately” from the last clause. The prior art of record does not disclose or teach every limitation recited by claim 32 and as such is allowable as presented. Claims 33–35 variously depend on claim 32 and as such are likewise allowable.

As such, new claims 22–35 are allowable for the reasons presented above.

CONCLUSION

All pending claims 2, 5, 7, 13–15, and 22–35 are in condition for allowance. Notice to that effect is respectfully requested.

The Examiner is cordially invited to contact the undersigned at the telephone number listed below if such a call would in any way facilitate the entrance of this amendment.

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

Respectfully submitted,

KINNEY & LANGE, P.A.

Date: 05/09/2023

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<i>Search Notes</i> 	Application/Control No. 17/374,656	Applicant(s)/Patent Under Reexamination Gordon et al.
	Examiner Todd Melton	Art Unit 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.

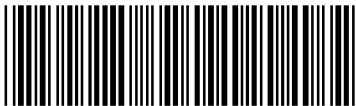
Search Notes		
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See attached search history	01/28/2023	tm
CPC classification search	01/28/2023	tm
claims search by keyword	01/28/2023	tm
refresh of previous searches	06/02/2023	tm

/TODD MELTON/ Primary Examiner, Art Unit 3669	
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<i>Search Notes</i> 	Application/Control No. 17/374,656	Applicant(s)/Patent Under Reexamination Gordon et al.
	Examiner Todd Melton	Art Unit 3669

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
B60W	50/0098,12	01/28/2023	tm
B60W	40/10,08,06	01/28/2023	tm
G05D	1/0061	01/28/2023	tm
B60W	2050/0072	01/28/2023	tm

/TODD MELTON/ Primary Examiner, Art Unit 3669	
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Issue Classification 	Application/Control No. 17/374,656	Applicant(s)/Patent Under Reexamination Gordon et al.	
	Examiner Todd Melton	Art Unit 3669	

CPC						
Symbol					Type	Version
B60W	/	50	/	12	F	2013-01-01
G05D	/	1	/	0061	I	2013-01-01
B60W	/	50	/	0098	I	2013-01-01
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B60W	/	2756	/	10	A	2020-02-01
B60W	/	2050	/	0072	A	2013-01-01
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

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 20	
/TODD MELTON/ Primary Examiner, Art Unit 3669 (Primary Examiner) _____ (Date) _____		O.G. Print Claim(s) 1	O.G. Print Figure 5

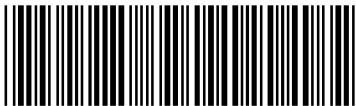
Issue Classification 	Application/Control No. 17/374,656	Applicant(s)/Patent Under Reexamination Gordon et al.	
	Examiner Todd Melton	Art Unit 3669	

INTERNATIONAL CLASSIFICATION					
CLAIMED					
B60W50/12	/	50	/	12	
G05D1/00	/	1	/	00	
B60W50/00	/	50	/	00	
B60W40/06	/	40	/	06	
B60W40/08	/	40	/	08	
B60W40/10	/	40	/	10	
NON-CLAIMED					
B62D1/28	/	1	/	28	
B62D6/00	/	6	/	00	

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

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

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/TODD MELTON/ Primary Examiner, Art Unit 3669 (Primary Examiner)	02 June 2023 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 5

Issue Classification 	Application/Control No. 17/374,656	Applicant(s)/Patent Under Reexamination Gordon et al.
	Examiner Todd Melton	Art Unit 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	2	10	25	19	34										
2	5	11	26	20	35										
6	7	12	27												
7	13	13	28												
8	14	14	29												
9	15	15	30												
3	22	16	31												
4	23	17	32												
5	24	18	33												

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 20	
/TODD MELTON/ Primary Examiner, Art Unit 3669 (Primary Examiner) _____ (Date) _____		O.G. Print Claim(s) 1	O.G. Print Figure 5

Bibliographic Data

Application No: 17/374,656

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.
07/13/2021	701	3669	S974-012343
RULE			

APPLICANTS

Slingshot IOT LLC, Baltimore, MD,

INVENTORS

Michael S. Gordon, Yorktown Heights, NY, UNITED STATES

James R. Kozloski, New Fairfield, CT, UNITED STATES

Ashish Kundu, New York, NY, UNITED STATES

Peter K. Malkin, Ardsley, NY, UNITED STATES

Clifford A. Pickover, Yorktown Heights, NY, UNITED STATES

CONTINUING DATA

This application is a CON of 16997202 08/19/2020 PAT 11091171

16997202 is a CON of 16899407 06/11/2020ABN

16997202 is a CON of 15955874 04/18/2018 PAT 10717446

15955874 is a CON of 15341225 11/02/2016 PAT 10029701

15341225 is a CON of 14865393 09/25/2015 PAT 9566986

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

07/26/2021

STATE OR COUNTRY

UNITED STATES

ADDRESS

KINNEY & LANGE, P.A.

312 SOUTH THIRD STREET

MINNEAPOLIS, MN 55415-1002

UNITED STATES

FILING FEE RECEIVED

\$1,980

PE2E SEARCH - Search History (Prior Art)

There are no Prior Art searches to show.

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N7	956752	(vehicle OR car OR automobile) [clm]	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/06/02 05:59 PM
N8	32328	N1 AND (autonom\$ OR driverless OR self-driving) [clm]	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/06/02 05:59 PM
N9	2044	N2 AND (weather OR snow OR snowy OR ice OR icy) [clm]	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/06/02 05:59 PM
N10	1169	N3 AND (road OR roadway OR pavement OR surface) [clm]	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/06/02 05:59 PM
N11	640	N4 AND (driver OR occupant OR user OR operator) [clm]	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/06/02 05:59 PM
N12	45	N5 AND (handover OR takeover OR hand over OR take over OR handing over OR taking over OR override OR overriding) [clm]	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/06/02 05:59 PM
N13	7392	B60W40/10,08,06 [cpc]	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/06/02 06:06 PM
N14	3291	G05D1/0061 [cpc]	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/06/02 06:06 PM
N15	3795	B60W50/0098,12 [cpc]	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/06/02 06:07 PM
N16	238	B60W2050/0072 [cpc]	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/06/02 06:07 PM
N17	406	N13 AND N14	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/06/02 06:07 PM
N18	174	N17 AND (N15 OR N16)	(US-PGPUB; USPAT)	ADJ	ON	ON	2023/06/02 06:08 PM



UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

164 7590 06/13/2023
KINNEY & LANGE, P.A.
312 SOUTH THIRD STREET
MINNEAPOLIS, MN 55415-1002

EXAMINER	
MELTON, TODD M	
ART UNIT	PAPER NUMBER
3669	

DATE MAILED: 06/13/2023

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/374,656	07/13/2021	Michael S. Gordon	S974-012343	8961

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	09/13/2023

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 EFS-Web.

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 06/13/2023
KINNEY & LANGE, P.A.
312 SOUTH THIRD STREET
MINNEAPOLIS, MN 55415-1002

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 EFS-Web 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.
17/374,656	07/13/2021	Michael S. Gordon	S974-012343	8961

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	09/13/2023

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,

1 _____

(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.

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 Patent Center or EFS-Web ☐ 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

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

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.

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.

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. _____



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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/374,656	07/13/2021	Michael S. Gordon	S974-012343	8961
164	7590	06/13/2023	EXAMINER	
KINNEY & LANGE, P.A. 312 SOUTH THIRD STREET MINNEAPOLIS, MN 55415-1002			MELTON, TODD M	
			ART UNIT	PAPER NUMBER
			3669	
DATE MAILED: 06/13/2023				

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.

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.

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) 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 the law.

Notice of Allowability	Application No. 17/374,656	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 RCE received on 09 May 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 See Continuation Sheet. 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	
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Continuation of 3. The allowed claim(s) is/are: 2,5,7,13-15 and 22-35

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.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. The submission filed on 09 May 2023 has been entered.

Allowable Subject Matter

Claims 2, 5, 7, 13-15 and 22-35 are allowed.

The following is an examiner's statement of reasons for allowance: the reasons for allowance remain the same as those given in the previous Office action. New claims 22-31 are considered allowable at least for their dependence on claim 2 or 13. New claim 32 is considered allowable for the same reasons given previously for claim 2, and new claims 33-35 are considered allowable at least for their dependence on claim 32.

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 examiners 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

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

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 expediency.**

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

164 7590 06/13/2023
KINNEY & LANGE, P.A.
312 SOUTH THIRD STREET
MINNEAPOLIS, MN 55415-1002

FILED VIA EFS-WEB

Ian D. MacKinnon	(Typed or printed name)
/Ian D. MacKinnon/	(Signature)
July 17, 2023	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17574.656	07/13/2021	Michael S. Gordon	5974-012343	8961

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

APPL. 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	09/13/2023

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(s). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE (CITY AND STATE OR COUNTRY)

Slingshot IOT LLC

Baltimore, MD

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required)

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

☒ Electronic Payment via Patent Center or EFS-Web ☐ 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☐ Applicant asserting small entity status. See 37 CFR 1.27☐ Applicant changing to regular undiscounted fee status.

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.

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.

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 July 17, 2023

Typed or printed name Ian D. MacKinnon

Registration No. 34,660

Electronic Patent Application Fee Transmittal

Application Number:	17374656			
Filing Date:	13-Jul-2021			
Title of Invention:	CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES			
First Named Inventor/Applicant Name:	Michael S. Gordon			
Filer:	Ian David MacKinnon/Nicole Chambers			
Attorney Docket Number:	S974-012343			
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1200	1200

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1200

Electronic Acknowledgement Receipt

EFS ID:	48307484
Application Number:	17374656
International Application Number:	
Confirmation Number:	8961
Title of Invention:	CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES
First Named Inventor/Applicant Name:	Michael S. Gordon
Customer Number:	164
Filer:	Ian David MacKinnon
Filer Authorized By:	
Attorney Docket Number:	S974-012343
Receipt Date:	17-JUL-2023
Filing Date:	13-JUL-2021
Time Stamp:	16:32:11
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 1200
RAM confirmation Number	E20237GG33036517
Deposit Account	110982
Authorized User	Ian MacKinnon

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

IPR2025-00944

37 CFR 1.19 (Document supply fees)
37 CFR 1.20 (Post Issuance fees)
37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	2023-07-17_PART-B_S974-012343.pdf	557717	no	1
			adf7dca6a01bf69c1fecae4835ad8cad04089796		

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	38052	no	2
			a7eff04b526aa013180057b17ff6bd7ac2d1f655		

Warnings:

Information:

Total Files Size (in bytes):	595769
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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 a 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

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.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/374,656	08/29/2023	11738765	S974-012343	8961

164 7590 08/09/2023
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 60 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):

Slingshot IOT LLC, Baltimore, MD;

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](https://selectusa.gov).



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United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/374,656	07/13/2021	Michael S. Gordon	S974-012343	8961
164	7590	08/29/2023	EXAMINER	
KINNEY & LANGE, P.A.			MELTON, TODD M	
333 S. 7TH ST., SUITE 2700				
MINNEAPOLIS, MN 55402-2438				
			ART UNIT	PAPER NUMBER
			3669	
			NOTIFICATION DATE	DELIVERY MODE
			08/29/2023	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



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.	ISSUE DATE	PATENT NO.
17/374,656	29-Aug-2023	11738765

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>



ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
17/374,656

RECEIPT DATE / TIME
01/05/2024 07:20:21 PM Z ET

ATTORNEY DOCKET #
S0974-P08818US06

Title of Invention

CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES

Application Information

APPLICATION TYPE Utility - Nonprovisional Application
under 35 USC 111(a)

PATENT # 11738765

CONFIRMATION # 8961

FILED BY Nicole Chambers

PATENT CENTER # 63838954

FILING DATE 07/13/2021

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_S974-012343.pdf	3	Assignee showing of ownership per 37 CFR 3.73	121 KB
2024-01-04_SADS_S974-012343.pdf	10	Application Data Sheet	2951 KB
Warning: This is not a USPTO supplied ADS fillable form. Data in the form cannot be automatically loaded to other USPTO systems.			
2023-01-04_POA_S974-012343.pdf	2	Power of Attorney	4010 KB

Digest**DOCUMENT****MESSAGE DIGEST(SHA-512)**2024-01-04_STATE_373_S974-
012343.pdfC97710F93410244F3D2D698F12990DF046B98FC7EEC7C1E69
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08C0F356780FC5661A995F9B2A896F79

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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

STATEMENT UNDER 37 CFR 3.73(c)Applicant/Patent Owner: GRANITE VEHICLE VENTURES LLCApplication No./Patent No.: 11738765 Filed/Issue Date: August 29, 2023Titled: CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLESGRANITE 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 CORPORATIONThe 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 LLCThe document was recorded in the United States Patent and Trademark Office at
Reel 051032, Frame 0784, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37CFR 3.73(b). 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 35U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 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.

IPR2025-00944

Tesla EX1002 Page 3464

STATEMENT UNDER 37 CFR 3.73(c)

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

The document was recorded in the United States Patent and Trademark Office at
Reel 051710, Frame 0445, or for which a copy thereof is attached.

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

The document was recorded in the United States Patent and Trademark Office at
Reel 051733, Frame 0463, or for which a copy thereof is attached.

5. From: SLINGSHOT IOT LLC To: GRANITE VEHICLE VENTURES LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 064405, Frame 0422, or for which a copy thereof is attached.

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)** 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.

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	17/374,656
Filing Date	July 13, 2021
First Named Inventor	Michael S. Gordon
Title	CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES
Art Unit	3669
Examiner Name	Todd M. Melton
Attorney Docket Number	S974-012343

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.**

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

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.

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	<u>S974-012343</u>
		Application Number	<u>17/374,656</u>
Title of Invention	<u>CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES</u>		
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	
	<u>Michael</u>	<u>S.</u>	<u>Gordon</u>		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	<u>Yorktown Heights</u>	State/Province	<u>NY</u>	Country of Residence	<u>US</u>
Mailing Address of Inventor:					
Address 1		<u>1101 Kitchawan Road</u>			
Address 2		<u>Route 134/P.O. Box 218</u>			
City	<u>Yorktown Heights</u>	State/Province	<u>NY</u>		
Postal Code	<u>10598</u>	Country i	<u>US</u>		
Inventor 2					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	<u>James</u>	<u>R.</u>	<u>Kozloski</u>		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	<u>New Fairfield</u>	State/Province	<u>CT</u>	Country of Residence	<u>US</u>
Mailing Address of Inventor:					
Address 1		<u>1101 Kitchawan Road</u>			
Address 2		<u>Route 134/P.O. Box 218</u>			
City	<u>Yorktown Heights</u>	State/Province	<u>NY</u>		
Postal Code	<u>10598</u>	Country i	<u>US</u>		
Inventor 3					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	<u>Ashish</u>		<u>Kundu</u>		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					

IPR2025-00944

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	<u>S974-012343</u>
		Application Number	<u>17/374,656</u>
Title of Invention	<u>CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES</u>		

City	<u>New York</u>	State/Province	<u>NY</u>	Country of Residence	<u>US</u>
------	-----------------	----------------	-----------	----------------------	-----------

Mailing Address of Inventor:

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

Inventor 4

Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	<u>Peter</u>	<u>K.</u>	<u>Malkin</u>	

Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service

City	<u>Ardsley</u>	State/Province	<u>NY</u>	Country of Residence	<u>US</u>
------	----------------	----------------	-----------	----------------------	-----------

Mailing Address of Inventor:

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

Inventor 5

Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	<u>Clifford</u>	<u>A.</u>	<u>Pickover</u>	

Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service

City	<u>Yorktown Heights</u>	State/Province	<u>NY</u>	Country of Residence	<u>US</u>
------	-------------------------	----------------	-----------	----------------------	-----------

Mailing Address of Inventor:

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

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.

IPR2025-00944

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	<u>S974-012343</u>	
		Application Number	<u>17/374,656</u>	
Title of Invention	<u>CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES</u>			
Customer Number	<u>00164</u>			
Email Address	<u>uspatdocket@kinney.com</u>	Add Email	Remove Email	

Application Information:

Title of the Invention	<u>CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES</u>		
Attorney Docket Number	<u>S974-012343</u>	Small Entity Status Claimed	☐
Application Type	<u>Nonprovisional</u>		
Subject Matter	<u>Utility</u>		
Total Number of Drawing Sheets (if any)	<u>8</u>	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	<u>00164</u>		

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	<u>S974-012343</u>
		Application Number	<u>17/374,656</u>
Title of Invention	<u>CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES</u>		

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		<u>Patented</u>		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
<u>17374656</u>	<u>Continuation of</u>	<u>16997202</u>	<u>2020-08-19</u>	<u>11091171</u>	<u>2021-08-17</u>
Prior Application Status		~~<u>Pending</u>~~		Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
<u> </u>	~~<u>Continuation of</u>~~	~~<u>16997202</u>~~	<u>2020-08-19</u>		
Prior Application Status		<u>Abandoned</u>		Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
<u>16997202</u>	<u>Continuation of</u>	<u>16899407</u>	<u>2020-06-11</u>		
Prior Application Status		<u>Patented</u>		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
<u>16997202</u>	<u>Continuation of</u>	<u>15955874</u>	<u>2018-04-18</u>	<u>10717446</u>	<u>2020-07-21</u>
Prior Application Status		<u>Patented</u>		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
<u>15955874</u>	<u>Continuation of</u>	<u>15341225</u>	<u>2016-11-02</u>	<u>10029701</u>	<u>2018-07-24</u>
Prior Application Status		<u>Patented</u>		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
<u>15341225</u>	<u>Continuation of</u>	<u>14865393</u>	<u>2015-09-25</u>	<u>9566986</u>	<u>2017-02-14</u>
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.					

Foreign Priority Information:

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	<u>S974-012343</u>
	Application Number	<u>17/374,656</u>
Title of Invention	<u>CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES</u>	

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).

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.
--

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	S974-012343
	Application Number	17/374,656
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.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	S974-012343
	Application Number	17/374,656
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.

☒ 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	~~381 South Fremont Avenue~~ <u>3610-2 N JOSEY</u>		
Address 2	<u>SUITE 223</u>		
City	~~Baltimore~~ <u>CARROLLTON</u>	State/Province	~~MD~~ <u>TX</u>
Country	<u>US</u>	Postal Code	~~21206~~ <u>75007</u>
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.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	S974-012343
	Application Number	17/374,656
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		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.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	<u>S974-012343</u>
	Application Number	<u>17/374,656</u>
Title of Invention	<u>CONTROLLING DRIVING MODES OF SELF-DRIVING VEHICLES</u>	

This collection of information is required by 37 CFR 1.76. 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 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet 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.**

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 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.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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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
17/374,656	07/13/2021	Michael S. Gordon	S0974-P08818US06

CONFIRMATION NO. 8961

POA ACCEPTANCE LETTER



OC000000066754922

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

Date Mailed: 01/10/2024

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.

/qmjackson/