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IA Number: CN2018095003
Applicant name: BAIDU.COM TIMES TECHNOLOGY (BEIJING)
CO., LTD. (+1)
International filing date: 09 July 2018

Main ISA: CN - State Intellectual Property Office of the
People's Republic of China
Main ISA provisional report
uploaded: 03 September 2018

Peer ISA: JP - Japan Patent Office
Peer contribution uploaded: 20 September 2018

The following document(*) has been uploaded by the peer ISA for consideration by the main ISA:

- Peer contribution (6 pages)

Indications by the peer ISA concerning the further searching performed:

- The peer review covered all claims covered by the main ISA
- The peer examiner conducted a full prior art search of the claims covered

() Document containing a maximum of three different documents put together with a cover letter as first page.*

Date: 20 September 2018 14:06:09 CEST
ePCT user: Takuya YASUI
Authentication: OFFICE

PATENT COOPERATION TREATY PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/CN2018/095003	International filing date(<i>day/month/year</i>)	(Earliest) Priority Date (<i>day/month/year</i>)
Applicant		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of:

the international application in the language in which it was filed.

a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

b. This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. **Certain claims were found unsearchable** (see Box No. II).

3. **Unity of invention is lacking** (see Box No. III).

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. _____

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b. none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl. B60W30/18(2012.01)i, G05D1/02(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl. B60W10/00-10/30, B60W30/00-50/16, B60K31/00, G05D1/00-1/12, G08G1/00-1/16, F02D29/00-29/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Published examined utility model applications of Japan 1922-1996
Published unexamined utility model applications of Japan 1971-2005
Registered utility model specifications of Japan 1996-2005
Published registered utility model applications of Japan 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2005/0234629 A1 (KABUSHIKI KAISHA MEIDENSHA) 2005.10.20, paragraphs [0016]-[0024], figures 1-3 & JP 2005-297872 A & EP 1586885 A3 & EP 1586885 A2 & KR 10-2006-0045661 A	1-21
A	JP 2013-129290 A (TOYOTA MOTOR CORPORATION) 2013.07.04, paragraphs [0032],[0040],[0043]-[0046], figure 4 (Family:none)	1-21
A	JP 2001-27584 A (HORIBA, Ltd.) 2001.01.30, paragraphs [0008]-[0010],[0015],[0038], figures 1-5 (Family:none)	1-21

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:
“A” document defining the general state of the art which is not considered to be of particular relevance
“E” earlier application or patent but published on or after the international filing date
“L” document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
“O” document referring to an oral disclosure, use, exhibition or other means
“P” document published prior to the international filing date but later than the priority date claimed
“T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
“X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
“Y” document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
“&” document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report	
Name and mailing address of the ISA/JP Japan Patent Office 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Authorized officer KAMIYAMA, Takayuki Telephone No. +81-3-3581-1101 Ext. 3395	3Z 3428

PATENT COOPERATION TREATY

From the
 INTERNATIONAL SEARCHING AUTHORITY

To:

PCT

WRITTEN OPINION OF THE
 INTERNATIONAL SEARCHING AUTHORITY
 (PCT Rule 43bis.1)

Date of mailing <i>(day/month/year)</i>	
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraph 2 below
International application No. PCT/CN2018/095003	International filing date <i>(day/month/year)</i>
International Patent Classification (IPC) or both national classification and IPC Int.Cl. B60W30/18 (2012.01) i, G05D1/02 (2006.01) i	Priority date <i>(day/month/year)</i>
Applicant	

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Date of completion of this opinion	
Name and mailing address of the ISA/JP Japan Patent Office 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Authorized officer KAMIYAMA, Takayuki Telephone No. +81-3-3581-1101 Ext. 3395

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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:
 - the international application in the language in which it was filed.
 - a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(b)).
3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing:
 - a. forming part of the international application as filed:
 - in the form of an Annex C/ST.25 text file.
 - on paper or in the form of an image file.
 - b. furnished together with the international application under PCT Rule 13ter.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.
 - c. furnished subsequent to the international filing date for the purposes of international search only:
 - in the form of an Annex C/ST.25 text file (Rule 13ter.1(a)).
 - on paper or in the form of an image file (Rule 13ter.1(b) and Administrative Instructions, Section 713).
4. In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that forming part of the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:

**WRITTEN OPINION OF THE
 INTERNATIONAL SEARCHING AUTHORITY**

International application No.

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1-21</u>	YES
	Claims	_____	NO
Inventive step (IS)	Claims	<u>1-21</u>	YES
	Claims	_____	NO
Industrial applicability (IA)	Claims	<u>1-21</u>	YES
	Claims	_____	NO

2. Citations and explanations:

- D1 : US 2005/0234629 A1 (KABUSHIKI KAISHA MEIDENSHA) 2005.10.20, paragraphs [0016]-[0024], figures 1-3 & JP 2005-297872 A & EP 1586885 A3 & EP 1586885 A2 & KR 10-2006-0045661 A
- D2 : JP 2013-129290 A (TOYOTA MOTOR CORPORATION) 2013.07.04, paragraphs [0032],[0040],[0043]-[0046], figure 4 (Family:none)
- D3 : JP 2001-27584 A (HORIBA, Ltd.) 2001.01.30, paragraphs [0008]-[0010],[0015],[0038], figures 1-5 (Family:none)

Claims 1-21

The subject matter of claims 1-21 is neither disclosed in any of the documents cited in the International Search Report (ISR) nor obvious to a person skilled in the art.

D1 discloses a computer-implemented method to control a vehicle, the method comprising:

- receiving a first control command (fig. 1: throttle opening command) and a speed measurement (fig. 1: vehicle speed) of the vehicle;
- determining an driving force command (fig. 1) of the vehicle based on the speed measurement (fig. 1: vehicle speed) and the first control command (fig. 1: throttle opening command);
- receiving an actual driving force (paragraph [0020]) of the vehicle;
- determining a feedback error based on the actual driving force and the driving force command;
- correcting an error of the calibration table (paragraph [0020], fig. 3: driving force characteristic map) based on the determined feedback error;
- and generating a second control command (fig. 1: throttle opening command) to control the vehicle based on the calibration table.

(Continued in Supplemental Box)

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: V

D2 discloses a computer-implemented method to control a vehicle, the method comprising:

receiving a first control command(fig. 4: Ta) and a speed measurement (fig. 4: Vn) of the vehicle;

determining an expected acceleration(fig. 4: A_tgt) of the vehicle based on the speed measurement(fig. 4: Vn) and the first control command(fig. 4: Ta);

receiving an acceleration measurement(fig. 4: An) of the vehicle;

determining a feedback error(paragraph [0044]: A_tgt - An) based on the acceleration measurement(fig. 4 : An) and the expected acceleration(Fig. 4: A_tgt);

and generating a second control command(fig. 4: Ta) to control the vehicle based on the feedback error.

D3 discloses a method for updating a calibration table(fig. 1: a lookup table based on the driving performance table 10).

None of the above documents (D1, D2 and D3) discloses, however, the feature of "determining a feedback error based on the acceleration measurement and the expected acceleration; updating a portion of the calibration table based on the determined feedback error" in the subject matter of claims 1-21.