PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: Tadd F. Wilson
Sheridan Ross P.C.
1560 Broadway, Suite 1200
Denver, CO 80202
United States of America

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing *(day/month/year)*	15 SEP 2014
Applicant's or agent's file reference: 6583-569-PCT	**FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No.: PCT/US14/34125	International filing date *(day/month/year)*: 15 April 2014 (15.04.2014)
Applicant: Flextronics AP, LLC	

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:
The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

How? Directly to the International Bureau of WIPO preferably through ePCT or on paper to, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70

For more detailed instructions, see *PCT Applicant's Guide*, International Phase, paragraphs 9.004 – 9.011.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ **With regard to any protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
   - ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with any request to forward the texts of both the protest and the decision thereon to the designated Offices.
   - ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

The applicant may **submit comments on an informal basis on the written opinion of the International Searching Authority** to the International Bureau. These comments will be made available to the public after international publication. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established.

Shortly after the expiration of **18 months from the priority date, the international application will be published** by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90*bis*.1 and 90*bis*.3).

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for **entry into the national phase** before those designated Offices. In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months. For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the *PCT Applicant's Guide*, National Chapters.

Within **19 months from the priority date, the applicant may request that a supplementary international search be carried out** by a different International Searching Authority that offers this service (Rule 45*bis*.1). The procedure for requesting supplementary international search is described in the *PCT Applicant's Guide*, International Phase, paragraphs 8.006-8.032.

Name and mailing address of the ISA/ Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer Shane Thomas PCT Helpdesk: 571-272-4300 Telephone No. PCT OSP: 571-272-7774

Form PCT/ISA/220 (July 2014)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 6583-569-PCT	**FOR FURTHER ACTION**	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US14/34125	International filing date *(day/month/year)* 15 April 2014 (15.04.2014)	(Earliest) Priority Date *(day/month/year)* 15 April 2013 (15.04.2013)
Applicant Flextronics AP, LLC		

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 43.6*bis*(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. 20

   ☒ 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.

Form PCT/ISA/210 (first sheet) (July 2009)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US14/34125

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - H04N 7/18 (2014.01)
CPC - G06F 3/017
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)
IPC(8): H04N 7/18, G06F 3/048, G06F 3/0487 (2014.01)
CPC: G06F 3/017, G06F 3/0425, G01C 21/3664

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
MicroPatent (US-G, US-A, EP-A, EP-B, WO, JP-bib, DE-C,B, DE-A, DE-T, DE-U, GB-A, FR-A); espacenet; IP.com; IEEE; Google/Google Scholar
KEYWORDS: gesture, recognition, car, airplane, complete, incomplete, audible, sound

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- A	US 2012/0105613 A1 (WENG, F et al.) 03 May 2012; paragraphs [0041], [0046], [0050].	1, 10, 11, 14, 15 --- 2-9, 12, 13
A	US 2010/0125811 A1 (MOORE, B et al.) 20 May 2010; the entire document.	1-15
A	US 7295904 B2 (KANEVSKY, D et al.) 13 November 2007; the entire document.	1-15
A	US 2011/0291926 A1 (GOKTURK, S et al.) 01 December 2011; the entire document.	1-15
E, Y	US 2014/0169621 A1 (BURR, J) 19 June 2014; the entire document.	1-15

☐ Further documents are listed in the continuation of Box C. ☐

* 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
15 August 2014 (15.08.2014)	15 SEP 2014
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Shane Thomas PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/210 (second sheet) (July 2009)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: Tadd F. Wilson
Sheridan Ross P.C.
1560 Broadway, Suite 1200
Denver, CO 80202
United States of America

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	15 SEP 2014
Applicant's or agent's file reference 6583-569-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US14/34125	15 April 2014 (15.04.2014)	15 April 2013 (15.04.2013)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - H04N 7/18 (2014.01)
CPC - G06F 3/017

Applicant Flextronics AP, LLC

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 43*bis*.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 66.1 *bis*(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.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	15 August 2014 (15.08.2014)	Shane Thomas PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34125

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 43*bis*.1(a))

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 filed or furnished:

   a. (means)

   ☐ on paper

   ☐ in electronic form

   b. (time)

   ☐ in the international application as filed

   ☐ together with the international application in electronic form

   ☐ subsequently to this Authority for the purposes of search

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 in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

Form PCT/ISA/237 (Box No. I) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34125

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

1. Statement

Novelty (N)	Claims	2-9, 12, 13	YES
	Claims	1, 10, 11, 14, 15	NO
Inventive step (IS)	Claims	2-9, 12, 13	YES
	Claims	1, 10, 11, 14, 15	NO
Industrial applicability (IA)	Claims	1-15	YES
	Claims	NONE	NO

2. Citations and explanations:

Claims 1, 10, 11, 14, 15 lack novelty under PCT Article 33(2) as being anticipated by US 2012/0105613 A1 to WENG et al. (hereinafter 'Weng').

As to Claim 1, Weng teaches a method for receiving a gesture in a conveyance, comprising: a vehicle control system (in-vehicle information and command entry may use a surface anywhere within the operator's proximity; paragraph [0041]), including a processor, receiving a gesture from a user (finger movements sensed by module 16 may be digitized, and these digitized movements are transmitted as an input to a gesture recognition module 18; Figure 2; paragraph [0046]); the vehicle control system identifying the received gesture (gesture recognition module 18 may determine which of the twenty-six letters or ten numerals is best represented by the movement made by the user's finger or hand; Figure 2; paragraph [0046]); the vehicle control system sending a verification of the received gesture to the user (gesture confirmation module 20 may seek and/or receive feedback from the user to confirm that the output of gesture recognition module 18 is correct; paragraph [0050]); the vehicle control system determining if a confirmation is received in response to the verification (confirmation module 20 may audibly ask the driver to "please re-write the previous entry; confirmation module 20 receives confirmation that it recognized the gesture correctly; paragraph [0050]); and if the confirmation is received, the vehicle control system controlling a function associated with the gesture (after receiving confirmation of correct recognition of the user's gesture, confirmation module 20 may then forward the recognized gesture to a vehicle system, such as navigation system 30, audio system 32 or HVAC system 34; Figure 1; paragraph [0050]).

As to Claim 10, Weng teaches the method of claim 1, further comprising: the vehicle control system receiving a denial of the verification (If the user did not write "defrost", then he may speak "no" or write "n" on surface 12; paragraph [0050]); and based on the denial, the vehicle control system not completing the function associated with the gesture (in response, confirmation module 20 may audibly ask the driver to "please re-write the previous entry". The cycle continues with gesturing capturing module 16 interpreting the user's gestures until confirmation module 20 receives confirmation that it recognized the gesture correctly; paragraph [0050]).

As to Claim 11, Weng teaches a conveyance comprising: a processor operable to execute one or more modules, the modules comprising: a gesture recognition module operable to: receive a gesture from a user (finger movements sensed by module 16 may be digitized, and these digitized movements are transmitted as an input to a gesture recognition module 18; Figure 1; paragraph [0046]); identify the received gesture (gesture recognition module 18 may determine which of the twenty-six letters or ten numerals is best represented by the movement made by the user's finger or hand; paragraph [0046]); a verification module operable to: send a verification of the received gesture to the user (gesture confirmation module 20 may seek and/or receive feedback from the user to confirm that the output of gesture recognition module 18 is correct; paragraph [0050]); determine if a confirmation is received in response to the verification (confirmation module 20 may audibly ask the driver to "please re-write the previous entry; confirmation module 20 receives confirmation that it recognized the gesture correctly; paragraph [0050]); and a function control module operable to, if the confirmation is received, control a function associated with the gesture (after receiving confirmation of correct recognition of the user's gesture, confirmation module 20 may then forward the recognized gesture to a vehicle system, such as navigation system 30, audio system 32 or HVAC system 34; Figure 1; paragraph [0050]).

As to Claim 14, Weng teaches the conveyance of claim 11, wherein the verification is one of an audible message presented to the user, a user interface message presented on a screen, or a preview of the function associated with the gesture (then confirmation module 20 may audibly ask the driver "Did you write 'defrost?'"; Figure 1; paragraph [0050]).

As to Claim 15, Weng teaches the conveyance of claim 11, wherein the confirmation is one of a second gesture, a selection of a user interface device on the screen, or an audible confirmation (In order to confirm that he did indeed say "defrost", the user may speak "yes", which may be received by a microphone 26 and may be input into confirmation module 20; Figure 1; paragraph [0050]).

-***-Continued Within the Next Supplemental Box-***-

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34125

Box No. VI Certain documents cited

1. Certain published documents (Rules 43*bis*.1 and 70.10)

Application No. Patent No.	Publication date *(day/month/year)*	Filing date *(day/month/year)*	Priority date (valid claim) *(day/month/year)*
US 2014/0169621 A1	19/06/2014	13/12/2012	

2. Non-written disclosures (Rules 43*bis*.1 and 70.9)

Kind of non-written disclosure	Date of non-written disclosure *(day/month/year)*	Date of written disclosure referring to non-written disclosure *(day/month/year)*

Form PCT/ISA/237 (Box No. VI) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34125

Supplemental Box

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

-***-Continued from Previous Supplemental Box-***-

Claim 2 meets the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest: if the confirmation is not received, the vehicle control system determining if the gesture should be completed; and if the gesture should be completed, the vehicle control system controlling the function associated with the gesture. In the closest prior art found, US 2010/0125811 A1 to MOORE et al. (hereinafter 'Moore') discloses, if the user types the characters "goo," the device may recommend going to the Google search engine as an action completion. Thereafter, activating hybrid purpose key 5063, by a finger tap gesture on key 5063, will cause the device to open a browsing module 147 and display a Web page for the Google search engine; Figure 5G; paragraph [0187]. However, the prior art fails to disclose the limitations as discussed above, since it waits for user's tap before opening Google.

Claims 3-9 also meet the criteria set out in PCT Article 33(2)-(3), because they depend upon Claim 2.

Claim 12 meets the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest: the conveyance of claim 11, wherein the verification module further operable to, if the confirmation is not received, determine if the gesture should be completed. In the closest prior art found, Moore, discloses if the user types the characters "goo," the device may recommend going to the Google search engine as an action completion. Thereafter, activating hybrid purpose key 5063, by a finger tap gesture on key 5063, will cause the device to open a browsing module 147 and display a Web page for the Google search engine; paragraph [0187]. However, the prior art fails to disclose the limitations as discussed above, since it waits for user's tap before opening Google.

Claim 13 also meets the criteria set out in PCT Article 33(2)-(3), because it depends upon Claim 12.

Claims 1-15 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: Tadd F. Wilson
Sheridan Ross P.C.
1560 Broadway, Suite 1200
Denver, CO 80202
United States of America

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

	Date of mailing *(day/month/year)* 15 SEP 2014
Applicant's or agent's file reference 6583-574-PCT	**FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No. PCT/US14/34254	International filing date *(day/month/year)* 15 April 2014 (15.04.2014)
Applicant FLEXTRONICS AP, LLC	

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

   Filing of amendments and statement under Article 19:
   The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

   When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

   How? Directly to the International Bureau of WIPO preferably through ePCT or on paper to, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70

   For more detailed instructions, see *PCT Applicant's Guide*, International Phase, paragraphs 9.004 – 9.011.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ **With regard to any protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
   - ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with any request to forward the texts of both the protest and the decision thereon to the designated Offices.
   - ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

   The applicant may **submit comments on an informal basis on the written opinion of the International Searching Authority** to the International Bureau. These comments will be made available to the public after international publication. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established.

   Shortly after the expiration of **18 months from the priority date, the international application will be published** by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90*bis*.1 and 90*bis*.3).

   Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for **entry into the national phase** before those designated Offices. In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months. For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the *PCT Applicant's Guide*, National Chapters.

   Within **19 months from the priority date, the applicant may request that a supplementary international search be carried out** by a different International Searching Authority that offers this service (Rule 45*bis*.1). The procedure for requesting supplementary international search is described in the *PCT Applicant's Guide*, International Phase, paragraphs 8.006-8.032.

Name and mailing address of the ISA/ Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer Shane Thomas PCT Helpdesk: 571-272-4300 Telephone No. PCT OSP: 571-272-7774

Form PCT/ISA/220 (July 2014)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 6583-574-PCT	**FOR FURTHER ACTION**	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US14/34254	International filing date *(day/month/year)* 15 April 2014 (15.04.2014)	(Earliest) Priority Date *(day/month/year)* 15 April 2013 (15.04.2013)
Applicant FLEXTRONICS AP, LLC		

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 3 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 43.6*bis*(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:

CENTRAL NETWORK FOR AUTOMATED CONTROL OF VEHICULAR TRAFFIC

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. 20A

☐ 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.

Form PCT/ISA/210 (first sheet) (July 2009)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US14/34254

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

Methods and systems for a traffic control system provide arrangements and processes for managing automated vehicles. The traffic control system can register vehicles and then control the operation of the vehicles through a section of roadway. The automated control includes the communication of directions and other messages that ensure the proper function of the vehicle while under the guidance of the traffic control system.

Form PCT/ISA/210 (continuation of first sheet (3)) (July 2009)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US14/34254

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - G08G 1/0968; G01C 21/20; G05D 1/02 (2014.01)
CPC - G08G 1/0125, 1/164; G05D 1/0088
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)
IPC(8) Classification(s): G06F 3/0484; G01C 21/26, 21/20; G08G 1/0968, 1/133, 1/09; G05D 1/02 (2014.01)
CPC Classification(s): G08G 1/0125, 1/164; G05D 1/0088

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
MicroPatent (US-G, US-A, EP-A, EP-B, WO, JP-bib, DE-C, B, DE-A, DE-T, DE-U, GB-A, FR-A); ProQuest; IEEE/IEEEXplore; Google/Google Scholar; KEYWORDS: automate, control, vehicular, traffic, server, message

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2008/0161986 A1 (BREED, D) 03 July 2008; Figures 5, 27; Paragraphs [0032], [0334], [0355], [0375], [0407], [0418], [0435], [0487], [0492], [0593].	1-15
A	US 2010/0125387 A1 (SEHYUN, P et al.) 20 May 2010; entire document.	1-15
A	US 2009/0125174 A1 (DELEAN, B) 14 May 2009; entire document.	1-15

☐ Further documents are listed in the continuation of Box C. ☐

* 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
12 August 2014 (12.08.2014)	15 SEP 2014
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Shane Thomas PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/210 (second sheet) (July 2009)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: Tadd F. Wilson
Sheridan Ross P.C.
1560 Broadway, Suite 1200
Denver, CO 80202
United States of America

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	15 SEP 2014

Applicant's or agent's file reference	FOR FURTHER ACTION
6583-574-PCT	See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US14/34254	15 April 2014 (15.04.2014)	15 April 2013 (15.04.2013)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G08G 1/0968; G01C 21/20; G05D 1/02 (2014.01)
CPC - G08G 1/0125, 1/164; G05D 1/0088

Applicant FLEXTRONICS AP, LLC

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 43*bis*.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 66.1 *bis*(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 th IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Fom 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.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	12 August 2014 (12.08.2014)	Shane Thomas PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34254

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 43*bis*.1(a))

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 filed or furnished:
   a. (means)
      - ☐ on paper
      - ☐ in electronic form
   b. (time)
      - ☐ in the international application as filed
      - ☐ together with the international application in electronic form
      - ☐ subsequently to this Authority for the purposes of search

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 in 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.
PCT/US14/34254

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

1. Statement

Novelty (N)	Claims	NONE	YES
	Claims	1-15	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-15	NO
Industrial applicability (IA)	Claims	1-15	YES
	Claims	NONE	NO

2. Citations and explanations:

Claims 1-15 lack novelty under PCT Article 33(2) as being anticipated by US 2008/0161986 A1 (BREED).

As per claim 1, Breed discloses a method for controlling a vehicle (enabling autonomous vehicle travel; Abstract), comprising: a control server, including a processor and associated with a traffic control system (a network server of a central data facility 300 (control server) including a microprocessor that communicates with traffic control devices controlled collectively to convey instructions for vehicular control (a traffic control system); Figures 5, 27; Paragraphs [0281], [0375], [0407], [0492]), receiving a registration of a vehicle (identifying the vehicle by a code based on the vehicle ID (a registration); Paragraph [0355]); the control server receiving travel information from the vehicle (information received by the network server (the control server) from the vehicle includes a picture to be interpreted for map updating (travel information); Paragraph [0375]); the control server determining a control arrangement for the vehicle (the central server checks a potential route and repeats the process based on GPS coordinates, road network sensors, and feedback from the driver; Paragraphs [0418], [0593]); and the control server sending a control message to control the vehicle in the traffic control system (the central server generates instructions to send to the vehicle for autonomous operation of the vehicle (a control message to control the vehicle) traveling in dedicated lanes with the surrounding traffic control devices (the traffic control system); Paragraphs [0435], [0487]).

As per claim 2, Breed discloses the method of claim 1. Breed additionally discloses, wherein the vehicle automatically, without driver input, follows instructions in the control message (the generated instructions sent to the vehicle allow the vehicle to be operated autonomously (without driver input) by converting the received instructions into operational commands (vehicle automatically follows instructions in the control message); Paragraph [0435]).

As per claim 3, Breed discloses the method of claim 2. Breed additionally discloses, wherein the travel information includes a current location and a destination (information transmitted from the vehicle (travel information) includes data about its location and destination of the vehicle; Figure 20; Paragraphs [0201], [0202]).

As per claim 4, Breed discloses the method of claim 3. Breed additionally discloses, wherein the control arrangement includes a speed and a position within traffic to which the vehicle must adhere (the information required for control of the vehicle (control arrangement) includes the local speed limit and restricted points of interest based on position of the vehicle and traffic information (a speed and a position within traffic to which the vehicle must adhere); Paragraph [0360]).

As per claim 5, Breed discloses the method of claim 4. Breed additionally discloses, wherein the vehicle generates a route based on the control arrangement (the vehicle resident system determines an alternate route the vehicle should take based on road conditions and traffic information (generates a route based on the control arrangement); Paragraph [0418]).

As per claim 6, Breed discloses the method of claim 5. Breed additionally discloses, wherein the vehicle follows the route automatically without driver input (the autonomous operation of the vehicle (without drive input) is arranged as the vehicle is controlled based on data about its travel lanes; Paragraph [0279]).

As per claim 7, Breed discloses the method of claim 6. Breed additionally discloses, wherein the control server sends a second control message to change a behavior of the vehicle (the central server (control server) informs vehicles of an emergency (a second control message) signaling to and controlling vehicles approaching an emergency to reduce vehicle speed (change a behavior of the vehicle); Paragraphs [0356], [0358]).

As per claim 8, Breed discloses the method of claim 7. Breed additionally discloses, wherein the second control message instructs the vehicle to exit from a roadway (while informing vehicles of an emergency (the second control message), the system guides the vehicle to leave the roadway when its speed is below a certain level (instructs the vehicle to exit from a roadway); Paragraph [0077]).

As per claim 9, Breed discloses the method of claim 8. Breed additionally discloses, wherein the control message includes a lane designation (the instructions generated (control message) optimize usage of dedicated lanes; Paragraph [0435]).

-***-Continued Within the Next Supplemental Box-***-

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34254

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

Claims 8 and 13 are objected to under PCT Rule 66.2(a)(iii) as containing the following defects in the form or contents thereof: Claims 8 and 13, in line 1 and in lines 2-3, respectively, recite "message is instructs the vehicle". As best understood, this is considered to be a typographical error and will be interpreted as "message instructs the vehicle".

Claim 10 is objected to under PCT Rule 66.2(a)(iii) as containing the following defects in the form or contents thereof: Claim 10, in lines 1-2, recites "a second the control message". As best understood, this is considered to be a typographical error and will be interpreted as "a second control message".

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34254

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 4 and 14 are objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claims 4 and 14 are indefinite for the following reason(s): Claims 4 and 14 refer to "the control information" in line 1. There is a lack of antecedent basis for these limitations in these claims. As best understood, the limitation is interpreted to read "the control arrangement".

Claims 8 and 13 are objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claims 8 and 13 are indefinite for the following reason(s): Claims 8 and 13 refer to "the second message" in line 1 and line 2, respectively. There is a lack of antecedent basis for theses limitations in these claims. As best understood, the limitation is interpreted to read "the second control message".

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34254

Supplemental Box

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

-***-Continued from Previous Supplemental Box-***-

As per claim 10, Breed discloses the method of claim 9. Breed additionally discloses, wherein a second vehicle receives a second control message (the emergency data transfers signals to another vehicle approaching the emergency to reduce vehicle speed (a second vehicle receives a second control message); Paragraph [0358]), wherein the second control message is different from the control message sent to the vehicle (which differs from the control message sent to the vehicle during normal autonomous operation which includes acceleration (different from the control message sent to the vehicle); Paragraph [0435]).

As per claim 11, Breed discloses a control server associated with a traffic control system (a central data and storage facility 300 (a control server) that communicates with traffic control devices controlled collectively to convey instructions for vehicular control (a traffic control system); Figure 27; Paragraphs [0281], [0375], [0407]) comprising: a processor operable to execute one or more modules (a processor or controller performs various operations (execute one or more modules); Figure 5; Paragraphs [0032], [0492]), the modules comprising: a registration module operable to: receive a registration of a vehicle (a receiver that rectifies bits (a registration module) from a 64 bit code transmitted by the vehicle that includes the vehicle identification number (a registration of a vehicle); Paragraph [0334]); a traffic control module operable to: receive travel information from the vehicle (a communications entity, or network server (traffic control module), receives from the vehicle a picture to be interpreted for map updating (travel information from the vehicle); Paragraph [0375]); determine a control arrangement for the vehicle (the server determines a route based on GPS coordinates and checking road network sensors (a control arrangement for the vehicle); Paragraphs [0418], [0593]); and send a control message to control the vehicle in the traffic control system (the central data facility server generates instructions to send to the vehicle for autonomous operation of the vehicle (a control message to control the vehicle) traveling in dedicated lanes with surrounding traffic control devices (the traffic control system); Paragraphs [0435], [0487]).

As per claim 12, Breed discloses the control server of claim 11. Breed additionally discloses, wherein the vehicle generates a route based on the control arrangement (the vehicle resident system determines an alternate route the vehicle should take based on road conditions and traffic information (generates a route based on the control arrangement); Paragraph [0418]), and wherein the vehicle follows the route automatically without driver input (the autonomous operation of the vehicle (without driver input) is arranged as the vehicle is controlled based on data about travel lanes (the vehicle follows the route automatically); Paragraph [0279]).

As per claim 13, Breed discloses the control server of claim 12. Breed additionally discloses, wherein the control server sends a second control message to change a behavior of the vehicle (the central server (control server) informs the vehicles of an emergency (a second control message) that signals to and controls vehicles approaching an emergency to reduce vehicle speed (change a behavior of the vehicle); Paragraphs [0356], [0358]), and wherein the second control message instructs the vehicle to exit from a roadway (a vehicle is guided to leave the roadway when its speed is below a certain level (the second control message instructs the vehicle to exit from a roadway); Paragraph [0077]).

As per claim 14, Breed discloses the control server of claim 13. Breed additionally discloses, wherein the control arrangement includes one or more of a lane, a speed, and a position within traffic to which the vehicle must adhere (the information required for control of the vehicle (control arrangement) includes the local speed limit (a speed within traffic to which the vehicle must adhere); Paragraph [0360]).

As per claim 15, Breed discloses the control server of claim 14. Breed additionally discloses, wherein the travel information includes a current location and a destination (information transmitted from the vehicle (travel information) includes data about its location and destination of the vehicle; Figure 20; Paragraphs [0201], [0202]).

Claims 1-15 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,729	04/15/2014	Christopher P. Ricci	6583-555	8377

111285 7590 11/19/2014

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
11/19/2014	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):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,729	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) Status Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *4/15/2014*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *4/15/2014* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

Claim Rejections - 35 USC § 102

2. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(2) the claimed invention was described in a patent issued under section 151, or in an application for patent published or deemed published under section 122(b), in which the patent or application, as the case may be, names another inventor and was effectively filed before the effective filing date of the claimed invention.

4. Claims 1 – 6, 11 – 13 and 16 – 18 are rejected under 35 U.S.C. 102(a)(2) as being anticipated by Link II, et al., (20130116882).

5. (Claims 1, 11 and 16): Link discloses a method for providing navigation information for a conveyance, comprising: a vehicle control system, including a processor, determining an origin location (figs. 1 and 9; [0024]); the vehicle control system determining two or more destination locations ([0057]); the vehicle control system determining a timeframe for the route (fig. 3; [0062]); and the vehicle control

system generating a best route to the two or more destinations in the timeframe (fig. 10; [0062]; [0096 – 0097]).

6. (Claims 2 – 4, 12 and 17): Link discloses a method for providing navigation information for a conveyance, wherein the timeframe is an amount of time available to a user to travel the route, wherein the best route includes a return to the origin location, and wherein the user provide the amount of time available (fig. 3; [0062]; [0096 – 0097]).

7. (Claims 5 – 6, 13 and 18): Link discloses a method for providing navigation information for a conveyance, wherein the route suggestion module accesses preference data in a user profile to determine preferred routes, wherein the best route is a preferred route (fig. 3; [0052]; [0055 - 0056]).

Claim Rejections - 35 USC § 103

8. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

9. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

10. Claims 7 – 8, 14 and 19 are rejected under 35 U.S.C. 103 as being unpatentable over Link II, et al., (20130116882) as applied to claims 1, 11 and 16 above, and further in view of Seltzer et al., (20090210143).

11. (Claims 7 – 8, 14 and 19): Link discloses a method for providing navigation information for a conveyance, comprising: a vehicle control system, including a processor, determining an origin location (figs. 1 and 9; [0024]); the vehicle control system determining two or more destination locations ([0057]). Link does not explicitly teach a user profile that avoids specific locations. However, in a related invention, Seltzer teaches a route based activity planner, wherein the user profile includes a first location that should be avoided, and wherein the best route avoids the first location ([0003]; [0027]; [0063]). It would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to modify Link to store in a user's profile, specific known trouble areas to avoid, as a very desirable feature in modern navigation systems.

12. **Claims 9 – 10, 15 and 20 are rejected under 35 U.S.C. 103 as being unpatentable over Link II, et al., (20130116882) as applied to claims 1, 11 and 16 above, and further in view of Seltzer et al., (20090210143) and in further view of Sumizawa (20110077855).**

13. (Claims 9 – 10, 15 and 20): Link discloses a method for providing navigation information for a conveyance, comprising: a vehicle control system, including a processor, determining an origin location (figs. 1, 3 and 9; [0024]); the vehicle control system determining two or more destination locations ([0057]). Seltzer teaches a route

based activity planner, wherein the user profile includes a first location that should be avoided, and wherein the best route avoids the first location ([0003]; [0027]; [0063]). Link and Seltzer do not explicitly teach a first location being an area between the original location and a destination. However, in a related inventions Sumizawa teaches a navigation system, wherein the first location is an area between the origin location and at least one destination (abstract; figs. 3 - 4; [0066]). (Note: The feature of an address in a user profile is taught in Link's fig. 3). It would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to modify Link to use an area instead of a single location, as a very desirable feature in modern navigation systems.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to form 892 for cited references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX C. DUNN whose telephone number is (571)270-5323. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Tarcza can be reached on 26979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ALEX C. DUNN
Examiner, Art Unit 3663

/THOMAS TARCZA/
Supervisory Patent Examiner, Art Unit 3663n

Notice of References Cited	Application/Control No. 14/253,729	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2002/0026278 A1	02-2002	Feldman et al.	701/117
*	B	US-6,356,838 B1	03-2002	Paul, Sunil	701/410
*	C	US-2009/0210143 A1	08-2009	Seltzer et al.	701/200
*	D	US-2009/0222200 A1	09-2009	LINK et al.	701/202
*	E	US-2011/0077855 A1	03-2011	SUMIZAWA, Akio	701/201
*	F	US-8,233,919 B2	07-2012	Haag et al.	455/456.3
*	G	US-2013/0116882 A1	05-2013	Link et al.	701/31.4
*	H	US-8,634,984 B2	01-2014	Sumizawa, Akio	701/31.4
*	I	US-8,793,065 B2	07-2014	Seltzer et al.	701/400
*	J	US-8,798,918 B2	08-2014	Onishi et al.	701/420
*	K	US-2014/0278071 A1	09-2014	SAN FILIPPO et al.	701/465
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	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.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,405	04/15/2014	Christopher P. Ricci	6583-567	8768

111285 7590 11/18/2014

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
11/18/2014	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):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,405	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) Status Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *4/15/2014*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *4/15/2014* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

Claim Rejections - 35 USC § 102

2. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

4. Claims 1 – 20 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Protopapas et al., (20120254763).

5. (Claims 1 - 2, 9 - 10 and 17 - 18): Protopapas discloses a vehicle system comprising: a vehicle (abstract; [0006]); a vehicle control system coupled to said vehicle and a communications unit coupled to said vehicle control system [0027]), wherein said vehicle control system synchronizes a calendar with said vehicle control system and generates a notice for a first user based on an event in said calendar and a supplemental factor (figs. 3A – 3C, 9; [0044]).

6. (Claims 3, 11 and 19): Protopapas discloses a vehicle system, wherein said supplemental factor is based on an amount of traffic from a departure point to an arrival point (figs 3A – 3B; [0003]; [0094]).

7. (Claims 4, 12 and 20): Protopapas discloses a vehicle system, wherein said supplemental factor is based on an amount of time required for said first user to arrive at said vehicle from a departure site (fig. 3C; [0003]; [0005]).

8. (Claims 5 - 6 and 13 - 14): Protopapas discloses a vehicle system, wherein said notice is provided to a second user (figs. 4A – 4C and 9; [0003]; [0030]).

9. (Claims 7 and 15): Protopapas discloses a vehicle system, wherein at least one of said set of conditions is based on said second user being one or more of a colleague of said first user, another meeting attendee, a meeting moderator, and a meeting invitee (fig. 9.; [0050]).

10. (Claims 8 and 16): Protopapas discloses a vehicle system, wherein said communications unit is one or more of a sensor, transceiver, or transmitter (fig. 1; [0029]).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to form 892 for cited references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX C. DUNN whose telephone number is (571)270-5323. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Tarcza can be reached on 26979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ALEX C. DUNN
Examiner, Art Unit 3663

/THOMAS TARCZA/
Supervisory Patent Examiner, Art Unit 3663

Notice of References Cited	Application/Control No. 14/253,405	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2006/0058948 A1	03-2006	Blass et al.	701/207
*	B	US-2008/0086455 A1	04-2008	Meisels et al.	707/3
*	C	US-2010/0136944 A1	06-2010	Taylor et al.	455/404.1
*	D	US-2010/0306309 A1	12-2010	Santori et al.	709/203
*	E	US-2011/0257973 A1	10-2011	Chutorash et al.	704/235
*	F	US-2012/0197523 A1	08-2012	Kirsch, David M.	701/426
*	G	US-2012/0254763 A1	10-2012	Protopapas et al.	715/738
*	H	US-8,442,758 B1	05-2013	Rovik et al.	701/424
*	I	US-2013/0218445 A1	08-2013	Basir, Otman A.	701/117
*	J	US-2013/0295913 A1	11-2013	Matthews et al.	455/420
*	K	US-8,825,362 B2	09-2014	Kirsch, David M.	701/430
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N	WO 2012102879 A1	08-2012	World Intellect	KIRSCH D M	
	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.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,838	04/15/2014	Christopher P. Ricci	6583-574	3352

111285 7590 11/20/2014

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EXAMINER
ISMAIL, MAHMOUD S

ART UNIT	PAPER NUMBER
3662	

NOTIFICATION DATE	DELIVERY MODE
11/20/2014	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):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,838	Applicant(s) RICCI ET AL.	
	Examiner MAHMOUD ISMAIL	Art Unit 3662	AIA (First Inventor to File) Status Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

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- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *04/15/2014*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *04/15/2014* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

DETAILED ACTION

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.
2. Claims 1-20 are pending in Instant Application.

Priority

3. Examiner acknowledges Applicant's claim to priority benefits of 61/811,981, 61/865,954, 61/870,698, 61/891,217, 61/904,205, 61/924,572, and 61/926,749 filed 04/15/2013, 08/14/2013, 08/27/2013, 10/15/2013, 11/14/2013, 01/07/2014, and 01/13/2014.

Claim Objections

4. Claim 10 is objected to because of the following informalities: The claim recites "a second the control message". Examiner believes this is a typographical error. Appropriate correction is required.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:
Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

5. Claims 17-20 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.
6. As per claims 17-20, the claims are being rejected in view of the **OG Notice on Subject Matter Eligibility of Computer Readable Media** posted on USPTO's

website on 1/28/2010. It is being reproduced partially below to maintain a clear record:

> "The broadest reasonable interpretation of a claim drawn to a **computer readable medium** (also called machine readable medium and other such variations) typically **covers forms of non-transitory tangible media and transitory propagating signals** *per se* in view of the ordinary and customary meaning of computer readable media, particularly when the specification is silent. *See* MPEP 2111.01. When the broadest reasonable interpretation of a claim covers a signal *per se*, the claim must be rejected under 35 U.S.C. § 101 as covering non-statutory subject matter. *[[]]*
> In an effort to assist the patent community in overcoming a rejection or potential rejection under 35 U.S.C. § 101 in this situation, the USPTO suggests the following approach. A claim drawn to such a computer readable medium that covers both transitory and non-transitory embodiments may be amended to narrow the claim to cover only statutory embodiments to avoid a rejection under 35 U.S.C. § 101 by adding the limitation "non-transitory" to the claim."

The claimed invention in claims 17-20 recite in line 1 "…computer readable medium…" and given that the specification is silent on not containing a transitory propagating signal as explained above in the OG Notice clearly medium by definition incorporates a transitory propagating signal and makes claims 17-20 non-statutory under USC 101.

Claim Rejections - 35 USC § 112

7. The following is a quotation of 35 U.S.C. 112(b):

> (b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.
>
> The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:
>
> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

8. Claims 4-15, and 17-20 are rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention.
9. Claim 4 recites the limitation "the control information" in line 1. There is insufficient antecedent basis for this limitation in the claim.

10. Claim 8 recites the limitation "the second message" in line 1. There is insufficient antecedent basis for this limitation in the claim.

11. Claim 13 recites the limitation "the second message" in line 1. There is insufficient antecedent basis for this limitation in the claim.

12. Claim 14 recites the limitation "the control information" in line 1. There is insufficient antecedent basis for this limitation in the claim.

13. Claim 17 recites the limitation "the computer readable medium" in line 1. There is insufficient antecedent basis for this limitation in the claim.

14. Claim 18 recites the limitation "the computer readable medium" in line 1 and "the second message" in lines 2-3. There are insufficient antecedent basis for these limitations in the claim.

15. Claim 19 recites the limitation "the computer readable medium" in line 1 and "the control information" in lines 1-2. There are insufficient antecedent basis for these limitations in the claim.

16. Claim 20 recites the limitation "the computer readable medium" in line 1. There is insufficient antecedent basis for this limitation in the claim.

17. Regarding claim 11, claim element “a registration module operable to...” and “a traffic control module operable to…" are limitations that invoke 35 U.S.C. 112(f) or 35 U.S.C. 112 (pre-AIA), sixth paragraph. However, the written description fails to disclose the corresponding structure, material, or acts for the claimed function. However the specification does not show how these units are implemented in terms of hardware and detailed algorithm. The specification does not clearly associate

circuits and corresponding detailed algorithm with corresponding hardware for claim element reciting element “a registration module operable to...” and “a traffic control module operable to…" in claim 11.

Applicant may:

(a) Amend the claim so that the claim limitation will no longer be interpreted as a limitation under 35 U.S.C. 112(f) or 35 U.S.C. 112 (pre-AIA), sixth paragraph; or

(b) Amend the written description of the specification such that it expressly recites what structure, material, or acts perform the claimed function, without introducing any new matter (35 U.S.C. 132(a)).

If applicant is of the opinion that the written description of the specification already implicitly or inherently discloses the corresponding structure, material, or acts so that one of ordinary skill in the art would recognize what structure, material, or acts perform the claimed function, applicant should clarify the record by either:

(a) Amending the written description of the specification such that it expressly recites the corresponding structure, material, or acts for performing the claimed function and clearly links or associates the structure, material, or acts to the claimed function, without introducing any new matter (35 U.S.C. 132(a)); or

(b) Stating on the record what the corresponding structure, material, or acts, which are implicitly or inherently set forth in the written description of the specification, perform the claimed function. For more information, see 37 CFR 1.75(d) and MPEP §§ 608.01(o) and 2181.

The above cited rejections are merely exemplary.

The Applicant(s) are respectfully requested to correct all similar errors.

Claims not specifically mentioned are rejected by virtue of their dependency.

Claim Rejections - 35 USC § 102

18. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(2) the claimed invention was described in a patent issued under section 151, or in an application for patent published or deemed published under section 122(b), in which the patent or application, as the case may be, names another inventor and was effectively filed before the effective filing date of the claimed invention.

19. Claims 1-20 are rejected under 35 U.S.C. 102(a)(2) as being anticipated by Breed (USPGPub 2008/0161986).

As per claim 1, Breed discloses a method for controlling a vehicle, comprising:

a control server, including a processor and associated with a traffic control system **(see at least paragraph 0032; wherein there are disclosed several processors or controllers)**, that perform various control operations, receiving a registration of a vehicle **(see at least paragraph 0333-0334; wherein the particular code transmitted by a particular vehicle should be unique. Generally, the vehicle will transmit its code repetitively with a variable or fixed spacing between transmissions. The information which the vehicle wishes to transmit is encoded using the vehicle's code by any of a number of different techniques including phase modulation of distance or time between code transmissions, phase or amplitude modulation of the code sequences themselves, changes of the polarity of the entire code sequence or the**

individual code segments, or bandwidth modulation of the code sequence. Other coding technologies would also applicable and this invention is not limited to any particular coding method…For example, a vehicle can have a 64 bit code which can be a combination of a vehicle identification number and the GPS coordinates of the vehicle location. The vehicle would continuously transmit this 64 bit code using frequencies within the selected band);

the control server receiving travel information from the vehicle **(see at least paragraph 0201; wherein FIG. 20 shows a schematic of the operation of a communication and/or information transmission system and method in accordance with the invention. Transmitters are provided, for example at fixed locations and/or in vehicles or other moving objects, and data about each transmitter, such as its location and an identification marker, is generated at 240. The location of the transmitter is preferably its GPS coordinates as determined, for example, by a GPS-based position determining system (although other position determining systems can alternatively or additionally be used). The data may include, when the transmitter is a moving vehicle, the velocity, speed, the direction of travel, the estimated travel path and the destination of the vehicle. The data is encoded at 242 using coding techniques such as those described above, e.g., phase modulation of distance or time between code transmissions, phase or amplitude modulation of the code sequences themselves, changes of the polarity of the entire code sequence or the individual code segments, or bandwidth modulation of the code sequence.**

The coded data is transmitted at 244 using, e.g., noise or pseudo-noise radar);

the control server determining a control arrangement for the vehicle **(see at least paragraph 0435; wherein data facility 300 could also function as a supervisory vehicle travel management system as described above in section 6.0. In this case, it would use some or all of the information available to it about the traveling of the vehicles, in particular, on dedicated lanes, and be programmed to generate instructions for each vehicle able to communicate with the data facility 300 to direct the movement of the vehicle. This would constitute autonomous operation of the vehicle since the vehicle would be provided with a control system which is capable of converting the instructions received from the data facility 300 into operational commands, e.g., steering commands, acceleration and braking commands, etc. Data facility 300 would generate such instructions to maximize the speed of travel on the dedicated lanes, prevent collisions between vehicles in the dedicated lanes and minimize the distance between adjacent vehicles in order to maximize usage of the dedicated lanes)**; and

the control server sending a control message to control the vehicle in the traffic control system **(see at least paragraph 0435; wherein data facility 300 could also function as a supervisory vehicle travel management system as described above in section 6.0. In this case, it would use some or all of the information available to it about the traveling of the vehicles, in particular, on dedicated lanes, and be programmed to generate instructions for each vehicle able to**

communicate with the data facility 300 to direct the movement of the vehicle. This would constitute autonomous operation of the vehicle since the vehicle would be provided with a control system which is capable of converting the instructions received from the data facility 300 into operational commands, e.g., steering commands, acceleration and braking commands, etc. Data facility 300 would generate such instructions to maximize the speed of travel on the dedicated lanes, prevent collisions between vehicles in the dedicated lanes and minimize the distance between adjacent vehicles in order to maximize usage of the dedicated lanes).

As per claim 2, Breed further discloses wherein the vehicle automatically, without driver input, follows instructions in the control message **(see at least paragraph 0435; wherein data facility 300 could also function as a supervisory vehicle travel management system as described above in section 6.0. In this case, it would use some or all of the information available to it about the traveling of the vehicles, in particular, on dedicated lanes, and be programmed to generate instructions for each vehicle able to communicate with the data facility 300 to direct the movement of the vehicle. This would constitute autonomous operation of the vehicle since the vehicle would be provided with a control system which is capable of converting the instructions received from the data facility 300 into operational commands, e.g., steering commands, acceleration and braking commands, etc. Data facility 300 would generate such instructions to maximize the speed of travel on the dedicated lanes,**

prevent collisions between vehicles in the dedicated lanes and minimize the distance between adjacent vehicles in order to maximize usage of the dedicated lanes).

As per claim 3, Breed further discloses wherein the travel information includes a current location and a destination **(see at least paragraph 0201; wherein FIG. 20 shows a schematic of the operation of a communication and/or information transmission system and method in accordance with the invention. Transmitters are provided, for example at fixed locations and/or in vehicles or other moving objects, and data about each transmitter, such as its location and an identification marker, is generated at 240. The location of the transmitter is preferably its GPS coordinates as determined, for example, by a GPS-based position determining system (although other position determining systems can alternatively or additionally be used). The data may include, when the transmitter is a moving vehicle, the velocity, speed, the direction of travel, the estimated travel path and the destination of the vehicle. The data is encoded at 242 using coding techniques such as those described above, e.g., phase modulation of distance or time between code transmissions, phase or amplitude modulation of the code sequences themselves, changes of the polarity of the entire code sequence or the individual code segments, or bandwidth modulation of the code sequence. The coded data is transmitted at 244 using, e.g., noise or pseudo-noise radar)**.

As per claim 4, Breed further discloses wherein the control information includes a speed and a position within traffic to which the vehicle must adhere **(see at least paragraph 0435; wherein data facility 300 could also function as a supervisory vehicle travel management system as described above in section 6.0. In this case, it would use some or all of the information available to it about the traveling of the vehicles, in particular, on dedicated lanes, and be programmed to generate instructions for each vehicle able to communicate with the data facility 300 to direct the movement of the vehicle. This would constitute autonomous operation of the vehicle since the vehicle would be provided with a control system which is capable of converting the instructions received from the data facility 300 into operational commands, e.g., steering commands, acceleration and braking commands, etc. Data facility 300 would generate such instructions to maximize the speed of travel on the dedicated lanes, prevent collisions between vehicles in the dedicated lanes and minimize the distance between adjacent vehicles in order to maximize usage of the dedicated lanes)**.

As per claim 5, Breed further discloses wherein the vehicle generates a route based on the control arrangement **(see at least paragraph 0418; wherein the determination of a route that a vehicle should take to go from its present location to its destination can be accomplished using a vehicle-resident system. A central server can be used to derive the GPS coordinates of the destination if it is not known based on its address, phone number or other**

identifying information. Once the route has been selected, the network can be checked to see if there is any congestion, tie-ups or other problems along the route and if so, then the driver can be asked as to whether the system should choose an alternate route and the process repeated).

As per claim 6, Breed further discloses wherein the vehicle follows the route automatically without driver input **(see at least paragraph 0588; wherein since the road conditions will now be known to the system, an enhanced RtZF.RTM. system will be able to advise an operator not to travel or, alternately, it can pick an alternate route if certain roads have accidents or have iced over, for example. Some people may decide not drive if there is bad weather or congestion. The important point here is that sensors will be available to sense the road condition as to both traffic and weather, this information will be available automatically and not require reporting from weather stations which usually have only late and inaccurate information. Additionally, pricing for the use of certain roads can be based on weather, congestion, time of day, etc. That is, pricing can by dynamically controlled)**.

As per claim 7, Breed further discloses wherein the control server sends a second control message to change a behavior of the vehicle **(see at least paragraph 0583; wherein once the system determines that the vehicle is in danger or a rollover situation, the operator can be notified with an audible or visual warning (via a display or light) so that he or she can take corrective action. Additionally or alternately, the system can take control of the situation**

and prevent the rollover through appropriate application of brakes (either on all wheels or selectively on particular wheels), throttle or steering).

As per claim 8, Breed further discloses wherein the second message is instructs the vehicle to exit from a roadway **(see at least paragraph 0556; wherein FIG. 12a is a flow chart of the method in accordance with the invention. The absolute position of the vehicle is determined at 130, e.g., using a GPS, DGPS, PPS system, and compared to the edges of the roadway at 134, which is obtained from a memory unit 132. Based on the comparison at 134, it is determined whether the absolute position of the vehicle is approaching close to or intersects an edge of the roadway at 136. If not, then the position of the vehicle is again obtained, e.g., at a set time interval thereafter, and the process continues. If yes, an alarm and/or warning system will be activated and/or the system will take control of the vehicle (at 140) to guide it to a shoulder of the roadway or other safe location)**.

As per claim 9, Breed further discloses wherein the control message includes a lane designation **(see at least paragraph 0435; wherein data facility 300 could also function as a supervisory vehicle travel management system as described above in section 6.0. In this case, it would use some or all of the information available to it about the traveling of the vehicles, in particular, on dedicated lanes, and be programmed to generate instructions for each vehicle able to communicate with the data facility 300 to direct the movement of the vehicle. This would constitute autonomous operation of the vehicle since the**

vehicle would be provided with a control system which is capable of converting the instructions received from the data facility 300 into operational commands, e.g., steering commands, acceleration and braking commands, etc. Data facility 300 would generate such instructions to maximize the speed of travel on the dedicated lanes, prevent collisions between vehicles in the dedicated lanes and minimize the distance between adjacent vehicles in order to maximize usage of the dedicated lanes).

As per claim 10, Breed further discloses wherein a second vehicle receives a second the control message, wherein the second control message is different from the control message sent to the vehicle **(see at least paragraph 0562-0563; wherein another common accident is where vehicle 18 does in fact stop but then proceeds forward without noticing vehicle 25 thereby causing an accident. Since in the fully deployed RtZF.RTM. system, vehicle 18 will know through the vehicle-to-vehicle communication, and possibly infrastructure-to-vehicle communications, the existence and location of vehicle 25 and can calculate its velocity, the system can once again take control of vehicle 18 if a warning is not heeded and prevent vehicle 18 from proceeding into the intersection and thereby prevent the accident…In the event that the vehicle 25 is not equipped with the RtZF.RTM. system, vehicle 18 will still sense the presence of vehicle 25 through the laser radar, radar and camera systems, or be notified of the presence of vehicle 25 via a communication from an infrastructure-based scanning system. Once again, when the position and**

speed of vehicle 25 is known, appropriate action can be taken by the system in vehicle 18 to prevent the accident. The infrastructure-based scanning system 27 can be situated in the vicinity of the intersection and determine the presence of vehicles approaching the intersection and their position and speed. It could also determine which vehicle has the right-of-way and if one of the vehicles violates the right-of-way, it could notify any vehicle equipped with the RtZF.RTM. system about the violation so that the vehicle 25 or driver thereof could undertake action to prevent a collision with the vehicle violating the right-of-way).

As per claim 11, Breed discloses a control server associated with a traffic control system comprising:

a processor operable to execute one or more modules **(see at least paragraph 0032; wherein there are disclosed several processors or controllers)**, the modules comprising:

a registration module operable to:

receive a registration of a vehicle **(see at least paragraph 0333-0334; wherein the particular code transmitted by a particular vehicle should be unique. Generally, the vehicle will transmit its code repetitively with a variable or fixed spacing between transmissions. The information which the vehicle wishes to transmit is encoded using the vehicle's code by any of a number of different techniques including phase modulation of distance or time between code transmissions, phase or amplitude modulation of the code sequences**

themselves, changes of the polarity of the entire code sequence or the individual code segments, or bandwidth modulation of the code sequence. Other coding technologies would also applicable and this invention is not limited to any particular coding method…For example, a vehicle can have a 64 bit code which can be a combination of a vehicle identification number and the GPS coordinates of the vehicle location. The vehicle would continuously transmit this 64 bit code using frequencies within the selected band);

a traffic control module operable to:

receive travel information from the vehicle **(see at least paragraph 0201; wherein FIG. 20 shows a schematic of the operation of a communication and/or information transmission system and method in accordance with the invention. Transmitters are provided, for example at fixed locations and/or in vehicles or other moving objects, and data about each transmitter, such as its location and an identification marker, is generated at 240. The location of the transmitter is preferably its GPS coordinates as determined, for example, by a GPS-based position determining system (although other position determining systems can alternatively or additionally be used). The data may include, when the transmitter is a moving vehicle, the velocity, speed, the direction of travel, the estimated travel path and the destination of the vehicle. The data is encoded at 242 using coding techniques such as those described above, e.g., phase modulation of distance or time between code transmissions, phase or amplitude modulation of the code sequences themselves, changes of the**

polarity of the entire code sequence or the individual code segments, or bandwidth modulation of the code sequence. The coded data is transmitted at 244 using, e.g., noise or pseudo-noise radar);

determine a control arrangement for the vehicle **(see at least paragraph 0435; wherein data facility 300 could also function as a supervisory vehicle travel management system as described above in section 6.0. In this case, it would use some or all of the information available to it about the traveling of the vehicles, in particular, on dedicated lanes, and be programmed to generate instructions for each vehicle able to communicate with the data facility 300 to direct the movement of the vehicle. This would constitute autonomous operation of the vehicle since the vehicle would be provided with a control system which is capable of converting the instructions received from the data facility 300 into operational commands, e.g., steering commands, acceleration and braking commands, etc. Data facility 300 would generate such instructions to maximize the speed of travel on the dedicated lanes, prevent collisions between vehicles in the dedicated lanes and minimize the distance between adjacent vehicles in order to maximize usage of the dedicated lanes)**; and

send a control message to control the vehicle in the traffic control system **(see at least paragraph 0435; wherein data facility 300 could also function as a supervisory vehicle travel management system as described above in section 6.0. In this case, it would use some or all of the information**

available to it about the traveling of the vehicles, in particular, on dedicated lanes, and be programmed to generate instructions for each vehicle able to communicate with the data facility 300 to direct the movement of the vehicle. This would constitute autonomous operation of the vehicle since the vehicle would be provided with a control system which is capable of converting the instructions received from the data facility 300 into operational commands, e.g., steering commands, acceleration and braking commands, etc. Data facility 300 would generate such instructions to maximize the speed of travel on the dedicated lanes, prevent collisions between vehicles in the dedicated lanes and minimize the distance between adjacent vehicles in order to maximize usage of the dedicated lanes).

As per claim 12, Breed further discloses wherein the vehicle generates a route based on the control arrangement **(see at least paragraph 0418; wherein the determination of a route that a vehicle should take to go from its present location to its destination can be accomplished using a vehicle-resident system. A central server can be used to derive the GPS coordinates of the destination if it is not known based on its address, phone number or other identifying information. Once the route has been selected, the network can be checked to see if there is any congestion, tie-ups or other problems along the route and if so, then the driver can be asked as to whether the system should choose an alternate route and the process repeated)**, and wherein the vehicle follows the route automatically without driver input **(see at least paragraph 0588;**

wherein since the road conditions will now be known to the system, an enhanced RtZF.RTM. system will be able to advise an operator not to travel or, alternately, it can pick an alternate route if certain roads have accidents or have iced over, for example. Some people may decide not drive if there is bad weather or congestion. The important point here is that sensors will be available to sense the road condition as to both traffic and weather, this information will be available automatically and not require reporting from weather stations which usually have only late and inaccurate information. Additionally, pricing for the use of certain roads can be based on weather, congestion, time of day, etc. That is, pricing can by dynamically controlled).

As per claim 13, Breed further discloses wherein the control server sends a second control message to change a behavior of the vehicle **(see at least paragraph 0583; wherein once the system determines that the vehicle is in danger or a rollover situation, the operator can be notified with an audible or visual warning (via a display or light) so that he or she can take corrective action. Additionally or alternately, the system can take control of the situation and prevent the rollover through appropriate application of brakes (either on all wheels or selectively on particular wheels), throttle or steering)**, and wherein the second message is instructs the vehicle to exit from a roadway **(see at least paragraph 0556; wherein FIG. 12a is a flow chart of the method in accordance with the invention. The absolute position of the vehicle is determined at 130, e.g., using a GPS, DGPS, PPS system, and compared to the edges of the**

roadway at 134, which is obtained from a memory unit 132. Based on the comparison at 134, it is determined whether the absolute position of the vehicle is approaching close to or intersects an edge of the roadway at 136. If not, then the position of the vehicle is again obtained, e.g., at a set time interval thereafter, and the process continues. If yes, an alarm and/or warning system will be activated and/or the system will take control of the vehicle (at 140) to guide it to a shoulder of the roadway or other safe location).

As per claim 14, Breed further discloses wherein the control information includes one or more of a lane, a speed, and a position within traffic to which the vehicle must adhere **(see at least paragraph 0435; wherein data facility 300 could also function as a supervisory vehicle travel management system as described above in section 6.0. In this case, it would use some or all of the information available to it about the traveling of the vehicles, in particular, on dedicated lanes, and be programmed to generate instructions for each vehicle able to communicate with the data facility 300 to direct the movement of the vehicle. This would constitute autonomous operation of the vehicle since the vehicle would be provided with a control system which is capable of converting the instructions received from the data facility 300 into operational commands, e.g., steering commands, acceleration and braking commands, etc. Data facility 300 would generate such instructions to maximize the speed of travel on the dedicated lanes, prevent collisions between vehicles in the**

dedicated lanes and minimize the distance between adjacent vehicles in order to maximize usage of the dedicated lanes).

As per claim 15, Breed further discloses wherein the travel information includes a current location and a destination **(see at least paragraph 0201; wherein FIG. 20 shows a schematic of the operation of a communication and/or information transmission system and method in accordance with the invention. Transmitters are provided, for example at fixed locations and/or in vehicles or other moving objects, and data about each transmitter, such as its location and an identification marker, is generated at 240. The location of the transmitter is preferably its GPS coordinates as determined, for example, by a GPS-based position determining system (although other position determining systems can alternatively or additionally be used). The data may include, when the transmitter is a moving vehicle, the velocity, speed, the direction of travel, the estimated travel path and the destination of the vehicle. The data is encoded at 242 using coding techniques such as those described above, e.g., phase modulation of distance or time between code transmissions, phase or amplitude modulation of the code sequences themselves, changes of the polarity of the entire code sequence or the individual code segments, or bandwidth modulation of the code sequence. The coded data is transmitted at 244 using, e.g., noise or pseudo-noise radar)**.

As per claim 16, Breed discloses a non-transitory computer readable medium stored on a storage medium and having instructions that when executed by a

processor cause the processor to perform a method **(see at least paragraph 0032; wherein there are disclosed several processors or controllers)**, the instructions comprising:

instructions to receive a registration of a vehicle **(see at least paragraph 0333-0334; wherein the particular code transmitted by a particular vehicle should be unique. Generally, the vehicle will transmit its code repetitively with a variable or fixed spacing between transmissions. The information which the vehicle wishes to transmit is encoded using the vehicle's code by any of a number of different techniques including phase modulation of distance or time between code transmissions, phase or amplitude modulation of the code sequences themselves, changes of the polarity of the entire code sequence or the individual code segments, or bandwidth modulation of the code sequence. Other coding technologies would also applicable and this invention is not limited to any particular coding method…For example, a vehicle can have a 64 bit code which can be a combination of a vehicle identification number and the GPS coordinates of the vehicle location. The vehicle would continuously transmit this 64 bit code using frequencies within the selected band)**;

instructions to receive travel information from the vehicle **(see at least paragraph 0201; wherein FIG. 20 shows a schematic of the operation of a communication and/or information transmission system and method in accordance with the invention. Transmitters are provided, for example at fixed locations and/or in vehicles or other moving objects, and data about each**

transmitter, such as its location and an identification marker, is generated at 240. The location of the transmitter is preferably its GPS coordinates as determined, for example, by a GPS-based position determining system (although other position determining systems can alternatively or additionally be used). The data may include, when the transmitter is a moving vehicle, the velocity, speed, the direction of travel, the estimated travel path and the destination of the vehicle. The data is encoded at 242 using coding techniques such as those described above, e.g., phase modulation of distance or time between code transmissions, phase or amplitude modulation of the code sequences themselves, changes of the polarity of the entire code sequence or the individual code segments, or bandwidth modulation of the code sequence. The coded data is transmitted at 244 using, e.g., noise or pseudo-noise radar);

instructions to determine a control arrangement for the vehicle **(see at least paragraph 0435; wherein data facility 300 could also function as a supervisory vehicle travel management system as described above in section 6.0. In this case, it would use some or all of the information available to it about the traveling of the vehicles, in particular, on dedicated lanes, and be programmed to generate instructions for each vehicle able to communicate with the data facility 300 to direct the movement of the vehicle. This would constitute autonomous operation of the vehicle since the vehicle would be provided with a control system which is capable of converting the instructions received from the data facility 300 into operational commands, e.g., steering commands,**

acceleration and braking commands, etc. Data facility 300 would generate such instructions to maximize the speed of travel on the dedicated lanes, prevent collisions between vehicles in the dedicated lanes and minimize the distance between adjacent vehicles in order to maximize usage of the dedicated lanes); and

instructions to send a control message to control the vehicle in the traffic control system **(see at least paragraph 0435; wherein data facility 300 could also function as a supervisory vehicle travel management system as described above in section 6.0. In this case, it would use some or all of the information available to it about the traveling of the vehicles, in particular, on dedicated lanes, and be programmed to generate instructions for each vehicle able to communicate with the data facility 300 to direct the movement of the vehicle. This would constitute autonomous operation of the vehicle since the vehicle would be provided with a control system which is capable of converting the instructions received from the data facility 300 into operational commands, e.g., steering commands, acceleration and braking commands, etc. Data facility 300 would generate such instructions to maximize the speed of travel on the dedicated lanes, prevent collisions between vehicles in the dedicated lanes and minimize the distance between adjacent vehicles in order to maximize usage of the dedicated lanes)**.

As per claim 17, Breed further discloses wherein the vehicle generates a route based on the control arrangement **(see at least paragraph 0418; wherein the**

determination of a route that a vehicle should take to go from its present location to its destination can be accomplished using a vehicle-resident system. A central server can be used to derive the GPS coordinates of the destination if it is not known based on its address, phone number or other identifying information. Once the route has been selected, the network can be checked to see if there is any congestion, tie-ups or other problems along the route and if so, then the driver can be asked as to whether the system should choose an alternate route and the process repeated), and wherein the vehicle follows the route automatically without driver input **(see at least paragraph 0588; wherein since the road conditions will now be known to the system, an enhanced RtZF.RTM. system will be able to advise an operator not to travel or, alternately, it can pick an alternate route if certain roads have accidents or have iced over, for example. Some people may decide not drive if there is bad weather or congestion. The important point here is that sensors will be available to sense the road condition as to both traffic and weather, this information will be available automatically and not require reporting from weather stations which usually have only late and inaccurate information. Additionally, pricing for the use of certain roads can be based on weather, congestion, time of day, etc. That is, pricing can by dynamically controlled)**.

As per claim 18, Breed further discloses wherein the control server sends a second control message to change a behavior of the vehicle **(see at least paragraph 0583; wherein once the system determines that the vehicle is in**

danger or a rollover situation, the operator can be notified with an audible or visual warning (via a display or light) so that he or she can take corrective action. Additionally or alternately, the system can take control of the situation and prevent the rollover through appropriate application of brakes (either on all wheels or selectively on particular wheels), throttle or steering), and wherein the second message is instructs the vehicle to exit from a roadway **(see at least paragraph 0556; wherein FIG. 12a is a flow chart of the method in accordance with the invention. The absolute position of the vehicle is determined at 130, e.g., using a GPS, DGPS, PPS system, and compared to the edges of the roadway at 134, which is obtained from a memory unit 132. Based on the comparison at 134, it is determined whether the absolute position of the vehicle is approaching close to or intersects an edge of the roadway at 136. If not, then the position of the vehicle is again obtained, e.g., at a set time interval thereafter, and the process continues. If yes, an alarm and/or warning system will be activated and/or the system will take control of the vehicle (at 140) to guide it to a shoulder of the roadway or other safe location)**.

As per claim 19, Breed further discloses wherein the control information includes one or more of a lane, a speed, and a position within traffic to which the vehicle must adhere **(see at least paragraph 0435; wherein data facility 300 could also function as a supervisory vehicle travel management system as described above in section 6.0. In this case, it would use some or all of the information available to it about the traveling of the vehicles, in particular, on**

dedicated lanes, and be programmed to generate instructions for each vehicle able to communicate with the data facility 300 to direct the movement of the vehicle. This would constitute autonomous operation of the vehicle since the vehicle would be provided with a control system which is capable of converting the instructions received from the data facility 300 into operational commands, e.g., steering commands, acceleration and braking commands, etc. Data facility 300 would generate such instructions to maximize the speed of travel on the dedicated lanes, prevent collisions between vehicles in the dedicated lanes and minimize the distance between adjacent vehicles in order to maximize usage of the dedicated lanes).

As per claim 20, Breed further discloses wherein the travel information includes a current location and a destination **(see at least paragraph 0201; wherein FIG. 20 shows a schematic of the operation of a communication and/or information transmission system and method in accordance with the invention. Transmitters are provided, for example at fixed locations and/or in vehicles or other moving objects, and data about each transmitter, such as its location and an identification marker, is generated at 240. The location of the transmitter is preferably its GPS coordinates as determined, for example, by a GPS-based position determining system (although other position determining systems can alternatively or additionally be used). The data may include, when the transmitter is a moving vehicle, the velocity, speed, the direction of travel, the estimated travel path and the destination of the vehicle. The data is**

encoded at 242 using coding techniques such as those described above, e.g., phase modulation of distance or time between code transmissions, phase or amplitude modulation of the code sequences themselves, changes of the polarity of the entire code sequence or the individual code segments, or bandwidth modulation of the code sequence. The coded data is transmitted at 244 using, e.g., noise or pseudo-noise radar).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MAHMOUD ISMAIL whose telephone number is (571)272-1326. The examiner can normally be reached on Monday - Friday from 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Helal Algahaim can be reached on (571) 270-5227. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the

Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MAHMOUD ISMAIL/
Examiner, Art Unit 3662

/HELAL A ALGAHAIM/
Supervisory Patent Examiner, Art Unit 3662

Notice of References Cited	Application/Control No. 14/253,838	Applicant(s)/Patent Under Reexamination RICCI ET AL.	
	Examiner MAHMOUD ISMAIL	Art Unit 3662	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2008/0161986	07-2008	Breed, David S.	701/23
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	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.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,506	04/15/2014	Christopher P. Ricci	6583-637	5446

111285 7590 11/14/2014

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EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
11/14/2014	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):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,506	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) Status Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *4/15/2014*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-23* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-5,7-12,14-19 and 21-23* is/are rejected.

8)☒ Claim(s) *6,13 and 20* is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *4/15/2014* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

Claim Rejections - 35 USC § 102

2. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

4. Claims 1 – 2, 5, 8 – 9, 12, 15 – 16 and 19 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Obradovich et al., (20080033635).

5. (Claims 1, 8 and 15): Obradovich discloses a method, comprising: maintaining, by a microprocessor executable profile identification module (abstract), a persona of a vehicle occupant (figs. 5 and 18; [0008]); and based on the persona of the vehicle occupant and vehicle-related information, performing, by a microprocessor executable vehicle control system, an action assisting the vehicle occupant (fig. 21; [0103 - 0104]).

6. (Claims 2, 9 and 16): Obradovich discloses a method, wherein the vehicle-related information comprises at least one of a current and/or future vehicle location and path of vehicle travel ([0040 - 0042]).

7. (Claims 5, 12 and 19): Obradovich discloses a method, further comprising: determining, by the vehicle control system, relevant information other than the persona of the vehicle occupant and the vehicle-related information, the relevant information comprising one or more of a persona of a selected person not currently in the vehicle (fig. 5; [0048]), a message from a friend or family member of the vehicle occupant ([0103]), a current activity of the friend and/or family member, a location, hours of operation, and/or descriptive information about a point and/or location of interest near the vehicle and/or the vehicle's path of travel ([0044]), a location, hours of operation, and/or descriptive information about a vehicle service facility near the vehicle and/or the vehicle's path of travel, a location, hours of operation, and/or descriptive information about a hotel and/or motel near the vehicle and/or the vehicle's path of travel, a current location of the friend or family member near the vehicle and/or the vehicle's path of travel, and a road condition along a path of travel of the vehicle ([0009]; [0043]; [0061 - 0067]).

8. Claims 1, 3 – 4, 7 – 8, 10 – 11, 14 – 15, 17 – 18, and 21 - 23 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Shuman et al., (6675081).

9. (Claims 1, 8 and 15): Shuman discloses a method, comprising: maintaining, by a microprocessor executable profile identification module (abstract), a persona of a vehicle occupant (fig. 2); and based on the persona of the vehicle occupant and vehicle-

related information, performing, by a microprocessor executable vehicle control system, an action assisting the vehicle occupant (figs. 1 and 9; col 2, lns 39 - 62).

10. (Claims 3, 7, 10, 14, 17 and 21): Shuman discloses a method, wherein the action performed depends on a seating position of the vehicle occupant (col 2, lns 39 – 62).

11. (Claims 4, 11 and 18): Shuman discloses a method, wherein the persona comprises one or more of bioinformatics, medical information, driving history (fig. 5), personal information, private information, travel information, and Internet browsing history and/or browsed content, wherein vehicle related information comprises one or more of vehicle context, state, external surroundings (fig. 5), location, past, current, and/or intended path of travel, waypoint, and destination, and wherein the action is one or more of making an appointment, making a reservation, purchasing an item on line (col 24, ln 48), adding a waypoint (fig. 15) or destination to path of travel on a navigation system of the vehicle, adding an entry into the occupant's electronic calendar, changing a destination or path of travel on the navigation system, warning the occupant, notifying the occupant, and sending a message to a person at a waypoint or destination of the vehicle regarding an arrival time (fig. 11; col 28, lns 14 - 35).

12. (Claim 22): Shuman discloses a method, wherein the maintaining of the persona comprises collecting information from one or more vehicle sensors and/or from a remote information source and wherein a type of information collected depends on one or more of an identity of the occupant, an age of the occupant, and an association of the occupant with the vehicle (col 11, ln 2; col 17, ln 51).

13. (Claim 23): Shuman discloses a method, wherein the persona is defined in a format that can be processed by vehicles of different manufacturers (figs. 1 and 26; col 5, lns 7 – 16).

Allowable Subject Matter

14. Claims 6, 13 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to form 892 for cited references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX C. DUNN whose telephone number is (571)270-5323. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Tarcza can be reached on 26979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ALEX C. DUNN
Examiner, Art Unit 3663

/THOMAS TARCZA/
Supervisory Patent Examiner, Art Unit 3663

Notice of References Cited	Application/Control No. 14/253,506	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,529,138 A	06-1996	Shaw et al.	180/169
*	B	US-5,825,283 A	10-1998	Camhi, Elie	340/438
*	C	US-2002/0103622 A1	08-2002	Burge, John R.	702/183
*	D	US-2003/0065432 A1	04-2003	Shuman et al.	701/48
*	E	US-6,563,910 B2	05-2003	Menard et al.	379/45
*	F	US-6,675,081 B2	01-2004	Shuman et al.	701/48
*	G	US-2004/0093155 A1	05-2004	Simonds et al.	701/200
*	H	US-2004/0204837 A1	10-2004	Singleton, Timothy	701/209
*	I	US-2008/0033635 A1	02-2008	Obradovich et al.	701/201
*	J	US-2008/0306996 A1	12-2008	McClellan et al.	707/104.1
*	K	US-2010/0235891 A1	09-2010	Oglesbee et al.	726/5
*	L	US-2010/0274410 A1	10-2010	TSIEN et al.	701/1
*	M	US-2013/0099915 A1	04-2013	Prasad et al.	340/461

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	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.

Notice of References Cited	Application/Control No. 14/253,506	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-8,521,410 B2	08-2013	Mizuno et al.	701/123
*	B	US-8,543,330 B2	09-2013	Taylor et al.	701/408
*	C	US-2013/0338914 A1	12-2013	Weiss, Andrew	701/465
*	D	US-2014/0220966 A1	08-2014	Muetzel et al.	455/426.1
*	E	US-8,825,277 B2	09-2014	McClellan et al.	701/32.2
*	F	US-8,825,382 B2	09-2014	Liu, Winston Yonglong	701/426
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 3663
Christopher P. Ricci	)	Confirmation No.: 5072
Serial No.: 14/253,312	)	Examiner: DUNN, ALEX C
Filed: April 15, 2014	)	INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-585	)	
Entitled: "Vehicle-Based Multimode Discovery"	)	*Electronically Submitted*

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

Dear Commissioner:

The references cited on attached Form PTO/SB08 are being called to the attention of the Examiner.

☒ Copies of the cited non-patent and/or foreign references are enclosed herewith.

☐ Copies of the cited U.S. patents and/or patent applications are enclosed herewith.

☒ Copies of the cited U.S. patents/unpublished patent applications/patent application publications are not enclosed in accordance with 37 C.F.R. § 1.98(a).

☐ Copies of the cited references are not enclosed, in accordance with 37 C.F.R. § 1.98(d), because the references were cited by or submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____ filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.

☐ To the best of applicants' belief, the pertinence of the foreign-language references is believed to be summarized in the attached English abstracts and/or in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

☒ Examiner's attention is drawn to the following related applications:

- Serial No. 14/253,843 filed 04/15/2014 (Attorney's Ref. No. 6583-530)
- Serial No. 14/253,836 filed 04/15/2014 (Attorney's Ref. No. 6583-537)
- Serial No. 14/253,840 filed 04/15/2014 (Attorney's Ref. No. 6583-538)
- Serial No. 14/253,213 filed 04/15/2014 (Attorney's Ref. No. 6583-543)
- Serial No. 14/252,863 filed 04/15/2014 (Attorney's Ref. No. 6583-544)
- Serial No. 14/253,216 filed 04/15/2014 (Attorney's Ref. No. 6583-545)
- Serial No. 14/252,865 filed 04/15/2014 (Attorney's Ref. No. 6583-546)

- Serial No. 14/253,240 filed 04/15/2014 (Attorney's Ref. No. 6583-547)
- Serial No. 14/253,220 filed 04/15/2014 (Attorney's Ref. No. 6583-548)
- Serial No. 14/253,315 filed 04/15/2014 (Attorney's Ref. No. 6583-549)
- Serial No. 14/253,706 filed 04/15/2014 (Attorney's Ref. No. 6583-550)
- Serial No. 14/252,868 filed 04/15/2014 (Attorney's Ref. No. 6583-551)
- Serial No. 14/253,745 filed 04/15/2014 (Attorney's Ref. No. 6583-553)
- Serial No. 14/253,752 filed 04/15/2014 (Attorney's Ref. No. 6583-554)
- Serial No. 14/253,729 filed 04/15/2014 (Attorney's Ref. No. 6583-555)
- Serial No. 14/252,934 filed 04/15/2014 (Attorney's Ref. No. 6583-556)
- Serial No. 14/253,243 filed 04/15/2014 (Attorney's Ref. No. 6583-557)
- Serial No. 14/252,978 filed 04/15/2014 (Attorney's Ref. No. 6583-558)
- Serial No. 14/253,023 filed 04/15/2014 (Attorney's Ref. No. 6583-559)
- Serial No. 14/252,871 filed 04/15/2014 (Attorney's Ref. No. 6583-560)
- Serial No. 14/253,204 filed 04/15/2014 (Attorney's Ref. No. 6583-561)
- Serial No. 14/253,099 filed 04/15/2014 (Attorney's Ref. No. 6583-562)
- Serial No. 14/253,330 filed 04/15/2014 (Attorney's Ref. No. 6583-563)
- Serial No. 14/253,351 filed 04/15/2014 (Attorney's Ref. No. 6583-564)
- Serial No. 14/252,858 filed 04/15/2014 (Attorney's Ref. No. 6583-565)
- Serial No. 14/253,034 filed 04/15/2014 (Attorney's Ref. No. 6583-566)
- Serial No. 14/253,405 filed 04/15/2014 (Attorney's Ref. No. 6583-567)
- Serial No. 14/252,876 filed 04/15/2014 (Attorney's Ref. No. 6583-568)
- Serial No. 14/253,321 filed 04/15/2014 (Attorney's Ref. No. 6583-569)
- Serial No. 14/253,226 filed 04/15/2014 (Attorney's Ref. No. 6583-570)
- Serial No. 14/253,492 filed 04/15/2014 (Attorney's Ref. No. 6583-571)
- Serial No. 14/253,838 filed 04/15/2014 (Attorney's Ref. No. 6583-574)
- Serial No. 14/253,334 filed 04/15/2014 (Attorney's Ref. No. 6583-586)
- Serial No. 14/253,476 filed 04/15/2014 (Attorney's Ref. No. 6583-587)
- Serial No. 14/253,371 filed 04/15/2014 (Attorney's Ref. No. 6583-588)
- Serial No. 14/253,393 filed 04/15/2014 (Attorney's Ref. No. 6583-589)
- Serial No. 14/253,233 filed 04/15/2014 (Attorney's Ref. No. 6583-590)
- Serial No. 14/253,376 filed 04/15/2014 (Attorney's Ref. No. 6583-591)
- Serial No. 14/253,396 filed 04/15/2014 (Attorney's Ref. No. 6583-594)
- Serial No. 14/253,416 filed 04/15/2014 (Attorney's Ref. No. 6583-595)
- Serial No. 14/253,435 filed 04/15/2014 (Attorney's Ref. No. 6583-596)
- Serial No. 14/253,446 filed 04/15/2014 (Attorney's Ref. No. 6583-597)

- Serial No. 14/253,048 filed 04/15/2014 (Attorney's Ref. No. 6583-598)
- Serial No. 14/253,424 filed 04/15/2014 (Attorney's Ref. No. 6583-599)
- Serial No. 14/253,058 filed 04/15/2014 (Attorney's Ref. No. 6583-600)
- Serial No. 14/253,006 filed 04/15/2014 (Attorney's Ref. No. 6583-601)
- Serial No. 14/253,022 filed 04/15/2014 (Attorney's Ref. No. 6583-602)
- Serial No. 14/253,060 filed 04/15/2014 (Attorney's Ref. No. 6583-603)
- Serial No. 14/253,135 filed 04/15/2014 (Attorney's Ref. No. 6583-604)
- Serial No. 14/253,486 filed 04/15/2014 (Attorney's Ref. No. 6583-605)
- Serial No. 14/253,251 filed 04/15/2014 (Attorney's Ref. No. 6583-607)
- Serial No. 14/253,426 filed 04/15/2014 (Attorney's Ref. No. 6583-608)
- Serial No. 14/253,388 filed 04/15/2014 (Attorney's Ref. No. 6583-609)
- Serial No. 14/253,406 filed 04/15/2014 (Attorney's Ref. No. 6583-610)
- Serial No. 14/253,464 filed 04/15/2014 (Attorney's Ref. No. 6583-611)
- Serial No. 14/253,755 filed 04/15/2014 (Attorney's Ref. No. 6583-614)
- Serial No. 14/253,015 filed 04/15/2014 (Attorney's Ref. No. 6583-615)
- Serial No. 14/253,727 filed 04/15/2014 (Attorney's Ref. No. 6583-619)
- Serial No. 14/253,199 filed 04/15/2014 (Attorney's Ref. No. 6583-620)
- Serial No. 14/253,067 filed 04/15/2014 (Attorney's Ref. No. 6583-621)
- Serial No. 14/253,144 filed 04/15/2014 (Attorney's Ref. No. 6583-622)
- Serial No. 14/253,078 filed 04/15/2014 (Attorney's Ref. No. 6583-623)
- Serial No. 14/543,535 filed 11/17/2014 (Attorney's Ref. No. 6583-623-CIP)
- Serial No. 14/253,423 filed 04/15/2014 (Attorney's Ref. No. 6583-624)
- Serial No. 14/253,091 filed 04/15/2014 (Attorney's Ref. No. 6583-625)
- Serial No. 14/253,743 filed 04/15/2014 (Attorney's Ref. No. 6583-626)
- Serial No. 14/253,766 filed 04/15/2014 (Attorney's Ref. No. 6583-627)
- Serial No. 14/253,470 filed 04/15/2014 (Attorney's Ref. No. 6583-628)
- Serial No. 14/253,341 filed 04/15/2014 (Attorney's Ref. No. 6583-629)
- Serial No. 14/253,506 filed 04/15/2014 (Attorney's Ref. No. 6583-637)
- Serial No. 14/253,526 filed 04/15/2014 (Attorney's Ref. No. 6583-638)

☐ Other:_____

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence

of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

FEES

☒	**37 CFR 1.97(b)**: No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith is satisfied by one of the following conditions ("X" indicates satisfaction): ☐ Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or ☐ Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application, or ☒ Before the mailing date of a first Office Action on the merits, or ☐ Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.
☐	**37 CFR 1.97(c)**: The information disclosure statement transmitted herewith is being filed after all the above conditions (37 CFR 1.97(b)), but before the mailing date of any one of the following conditions: (1) a final action under 37 C.F.R. 1.113, or (2) a notice of allowance under 37 C.F.R. 1.311, or (3) an action that otherwise closes prosecution in the application. This Information Disclosure Statement is accompanied by: ☐ A Certification (below) as specified by 37 C.F.R. 1.97(e). Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970. OR ☐ Please charge Deposit Account 19-1970 in the amount of $180.00 for the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement. Please credit any overpayment or charge any underpayment to Deposit Account 19-1970.
☐	**37 CFR 1.97(d)**: This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c). ☐ This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e) AND ☐ Applicants hereby requests consideration of the reference(s) disclosed herein. Please charge Deposit Account 19-1970 in the amount of $180.00 under 37 C.F.R. 1.17(p). Please credit any overpayment or charge any underpayment to Deposit Account 19-1970. Election to pay the fee should not be taken as an indication that applicant(s) cannot execute a certification.

Certification (37 C.F.R. 1.97(e))
(Applicable only if checked)

☐ The undersigned certifies that:

☐ Each item of information contained in the Information Disclosure Statement submitted herewith 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 this statement. 37 C.F.R. 1.97(e)(1).

☐ A copy of the communication from the foreign patent office is enclosed.

OR

☐ No item of information contained in the Information Disclosure Statement submitted herewith was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

SHERIDAN ROSS P.C.

By: /Douglas W. Swartz/
Douglas W. Swartz
Registration No. 37,739
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: November 25, 2014

UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

111285 7590 12/19/2014

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

DATE MAILED: 12/19/2014

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,312	04/15/2014	Christopher P. Ricci	6583-585	5072

TITLE OF INVENTION: VEHICLE-BASED MULTIMODE DISCOVERY

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	03/19/2015

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 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity 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 and an extra copy of the form should be submitted. 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: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (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)

111285 7590 12/19/2014
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

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 facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,312	04/15/2014	Christopher P. Ricci	6583-585	5072

TITLE OF INVENTION: VEHICLE-BASED MULTIMODE DISCOVERY

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	03/19/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
DUNN, ALEX C	3663	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/SB/122) attached.
- ❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

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

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

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. 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. The following fee(s) are submitted:
- ❑ Issue Fee
- ❑ Publication Fee (No small entity discount permitted)
- ❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ❑ A check is enclosed.
- ❑ Payment by credit card. Form PTO-2038 is attached.
- ❑ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ❑ Applicant certifying micro entity status. See 37 CFR 1.29 — NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ❑ Applicant asserting small entity status. See 37 CFR 1.27 — NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ❑ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

Page 586 of 907 Ford Ex. 1002

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,312	04/15/2014	Christopher P. Ricci	6583-585	5072

111285 7590 12/19/2014

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER	
DUNN, ALEX C	

ART UNIT	PAPER NUMBER
3663	

DATE MAILED: 12/19/2014

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 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, 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); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

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

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

Notice of Allowability	Application No. 14/253,312	Applicant(s) RICCI ET AL.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) 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 *4/15/2014*.
   ☐ 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 *1-21*. 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 _____.

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance: Claims 1 – 21 are allowed for the following reasons.

3. The prior art of record fails to teach - applying, by the device discovery daemon, at least the following rules: (C1) when the computational device is located within the predetermined area and/or zone of the vehicle, permitting the computational device to access or attempt to access the vehicle network and/or communication subsystem; and (C2) when the computational device is not located within the predetermined area and/or zone of the vehicle, not permitting the computational device to access or attempt to access the vehicle network and/or communication subsystem.

Any comments considered necessary by applicant 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

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to form 892 for cited references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX C. DUNN whose telephone number is (571)270-5323. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Tarcza can be reached on 26979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ALEX C. DUNN
Examiner, Art Unit 3663

/THOMAS TARCZA/

Supervisory Patent Examiner, Art Unit 3663

Notice of References Cited	Application/Control No. 14/253,312	Applicant(s)/Patent Under Reexamination RICCI ET AL.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2002/0009978 A1	01-2002	Dukach et al.	455/99
*	B	US-2002/0065046 A1	05-2002	Mankins et al.	455/59
*	C	US-2004/0036622 A1	02-2004	Dukach et al.	340/691.6
*	D	US-2009/0138336 A1	05-2009	Ashley et al.	705/10
*	E	US-2010/0169432 A1	07-2010	Santori et al.	709/206
*	F	US-2010/0235891 A1	09-2010	Oglesbee et al.	726/5
*	G	US-2010/0305807 A1	12-2010	Basir et al.	701/33
*	H	US-8,350,721 B2	01-2013	Carr, Jeffrey Thomas	340/903
*	I	US-8,660,735 B2	02-2014	Tengler et al.	701/24
*	J	US-8,730,033 B2	05-2014	Yarnold et al.	340/539.13
*	K	US-8,793,034 B2	07-2014	Ricci, Christopher P.	701/1
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	Group Art Unit: 3663
Christopher P. Ricci	Confirmation No.: 5072
Serial No.: 14/253,312	Examiner: DUNN, ALEX C
Filed: April 15, 2014	INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-585	*Electronically Submitted*
Entitled: "Vehicle-Based Multimode Discovery"	

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

Dear Commissioner:

The references cited on attached Form PTO/SB08 are being called to the attention of the Examiner.

☒ Copies of the cited non-patent and/or foreign references are enclosed herewith.

☐ Copies of the cited U.S. patents and/or patent applications are enclosed herewith.

☒ Copies of the cited U.S. patents/unpublished patent applications/patent application publications are not enclosed in accordance with 37 C.F.R. § 1.98(a).

☐ Copies of the cited references are not enclosed, in accordance with 37 C.F.R. § 1.98(d), because the references were cited by or submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____ filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.

☐ To the best of applicants' belief, the pertinence of the foreign-language references is believed to be summarized in the attached English abstracts and/or in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

☒ Examiner's attention is drawn to the following related applications:

- Serial No. 14/253,843 filed 04/15/2014 (Attorney's Ref. No. 6583-530)
- Serial No. 14/253,836 filed 04/15/2014 (Attorney's Ref. No. 6583-537)
- Serial No. 14/253,840 filed 04/15/2014 (Attorney's Ref. No. 6583-538)
- Serial No. 14/253,213 filed 04/15/2014 (Attorney's Ref. No. 6583-543)
- Serial No. 14/252,863 filed 04/15/2014 (Attorney's Ref. No. 6583-544)
- Serial No. 14/253,216 filed 04/15/2014 (Attorney's Ref. No. 6583-545)
- Serial No. 14/252,865 filed 04/15/2014 (Attorney's Ref. No. 6583-546)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.D./

- Serial No. 14/253,240 filed 04/15/2014 (Attorney's Ref. No. 6583-547)
- Serial No. 14/253,220 filed 04/15/2014 (Attorney's Ref. No. 6583-548)
- Serial No. 14/253,315 filed 04/15/2014 (Attorney's Ref. No. 6583-549)
- Serial No. 14/253,706 filed 04/15/2014 (Attorney's Ref. No. 6583-550)
- Serial No. 14/252,868 filed 04/15/2014 (Attorney's Ref. No. 6583-551)
- Serial No. 14/253,745 filed 04/15/2014 (Attorney's Ref. No. 6583-553)
- Serial No. 14/253,752 filed 04/15/2014 (Attorney's Ref. No. 6583-554)
- Serial No. 14/253,729 filed 04/15/2014 (Attorney's Ref. No. 6583-555)
- Serial No. 14/252,934 filed 04/15/2014 (Attorney's Ref. No. 6583-556)
- Serial No. 14/253,243 filed 04/15/2014 (Attorney's Ref. No. 6583-557)
- Serial No. 14/252,978 filed 04/15/2014 (Attorney's Ref. No. 6583-558)
- Serial No. 14/253,023 filed 04/15/2014 (Attorney's Ref. No. 6583-559)
- Serial No. 14/252,871 filed 04/15/2014 (Attorney's Ref. No. 6583-560)
- Serial No. 14/253,204 filed 04/15/2014 (Attorney's Ref. No. 6583-561)
- Serial No. 14/253,099 filed 04/15/2014 (Attorney's Ref. No. 6583-562)
- Serial No. 14/253,330 filed 04/15/2014 (Attorney's Ref. No. 6583-563)
- Serial No. 14/253,351 filed 04/15/2014 (Attorney's Ref. No. 6583-564)
- Serial No. 14/252,858 filed 04/15/2014 (Attorney's Ref. No. 6583-565)
- Serial No. 14/253,034 filed 04/15/2014 (Attorney's Ref. No. 6583-566)
- Serial No. 14/253,405 filed 04/15/2014 (Attorney's Ref. No. 6583-567)
- Serial No. 14/252,876 filed 04/15/2014 (Attorney's Ref. No. 6583-568)
- Serial No. 14/253,321 filed 04/15/2014 (Attorney's Ref. No. 6583-569)
- Serial No. 14/253,226 filed 04/15/2014 (Attorney's Ref. No. 6583-570)
- Serial No. 14/253,492 filed 04/15/2014 (Attorney's Ref. No. 6583-571)
- Serial No. 14/253,838 filed 04/15/2014 (Attorney's Ref. No. 6583-574)
- Serial No. 14/253,334 filed 04/15/2014 (Attorney's Ref. No. 6583-586)
- Serial No. 14/253,476 filed 04/15/2014 (Attorney's Ref. No. 6583-587)
- Serial No. 14/253,371 filed 04/15/2014 (Attorney's Ref. No. 6583-588)
- Serial No. 14/253,393 filed 04/15/2014 (Attorney's Ref. No. 6583-589)
- Serial No. 14/253,233 filed 04/15/2014 (Attorney's Ref. No. 6583-590)
- Serial No. 14/253,376 filed 04/15/2014 (Attorney's Ref. No. 6583-591)
- Serial No. 14/253,396 filed 04/15/2014 (Attorney's Ref. No. 6583-594)
- Serial No. 14/253,416 filed 04/15/2014 (Attorney's Ref. No. 6583-595)
- Serial No. 14/253,435 filed 04/15/2014 (Attorney's Ref. No. 6583-596)
- Serial No. 14/253,446 filed 04/15/2014 (Attorney's Ref. No. 6583-597)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.D./

- Serial No. 14/253,048 filed 04/15/2014 (Attorney's Ref. No. 6583-598)
- Serial No. 14/253,424 filed 04/15/2014 (Attorney's Ref. No. 6583-599)
- Serial No. 14/253,058 filed 04/15/2014 (Attorney's Ref. No. 6583-600)
- Serial No. 14/253,006 filed 04/15/2014 (Attorney's Ref. No. 6583-601)
- Serial No. 14/253,022 filed 04/15/2014 (Attorney's Ref. No. 6583-602)
- Serial No. 14/253,060 filed 04/15/2014 (Attorney's Ref. No. 6583-603)
- Serial No. 14/253,135 filed 04/15/2014 (Attorney's Ref. No. 6583-604)
- Serial No. 14/253,486 filed 04/15/2014 (Attorney's Ref. No. 6583-605)
- Serial No. 14/253,251 filed 04/15/2014 (Attorney's Ref. No. 6583-607)
- Serial No. 14/253,426 filed 04/15/2014 (Attorney's Ref. No. 6583-608)
- Serial No. 14/253,388 filed 04/15/2014 (Attorney's Ref. No. 6583-609)
- Serial No. 14/253,406 filed 04/15/2014 (Attorney's Ref. No. 6583-610)
- Serial No. 14/253,464 filed 04/15/2014 (Attorney's Ref. No. 6583-611)
- Serial No. 14/253,755 filed 04/15/2014 (Attorney's Ref. No. 6583-614)
- Serial No. 14/253,015 filed 04/15/2014 (Attorney's Ref. No. 6583-615)
- Serial No. 14/253,727 filed 04/15/2014 (Attorney's Ref. No. 6583-619)
- Serial No. 14/253,199 filed 04/15/2014 (Attorney's Ref. No. 6583-620)
- Serial No. 14/253,067 filed 04/15/2014 (Attorney's Ref. No. 6583-621)
- Serial No. 14/253,144 filed 04/15/2014 (Attorney's Ref. No. 6583-622)
- Serial No. 14/253,078 filed 04/15/2014 (Attorney's Ref. No. 6583-623)
- Serial No. 14/543,535 filed 11/17/2014 (Attorney's Ref. No. 6583-623-CIP)
- Serial No. 14/253,423 filed 04/15/2014 (Attorney's Ref. No. 6583-624)
- Serial No. 14/253,091 filed 04/15/2014 (Attorney's Ref. No. 6583-625)
- Serial No. 14/253,743 filed 04/15/2014 (Attorney's Ref. No. 6583-626)
- Serial No. 14/253,766 filed 04/15/2014 (Attorney's Ref. No. 6583-627)
- Serial No. 14/253,470 filed 04/15/2014 (Attorney's Ref. No. 6583-628)
- Serial No. 14/253,341 filed 04/15/2014 (Attorney's Ref. No. 6583-629)
- Serial No. 14/253,506 filed 04/15/2014 (Attorney's Ref. No. 6583-637)
- Serial No. 14/253,526 filed 04/15/2014 (Attorney's Ref. No. 6583-638)

☐ Other:_____

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.D./

of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

FEES

☒	**37 CFR 1.97(b)**: No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith is satisfied by one of the following conditions ("X" indicates satisfaction): ☐ Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or ☐ Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application, or ☒ Before the mailing date of a first Office Action on the merits, or ☐ Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.
☐	**37 CFR 1.97(c)**: The information disclosure statement transmitted herewith is being filed after all the above conditions (37 CFR 1.97(b)), but before the mailing date of any one of the following conditions: (1) a final action under 37 C.F.R. 1.113, or (2) a notice of allowance under 37 C.F.R. 1.311, or (3) an action that otherwise closes prosecution in the application. This Information Disclosure Statement is accompanied by: ☐ A Certification (below) as specified by 37 C.F.R. 1.97(e). Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970. OR ☐ Please charge Deposit Account 19-1970 in the amount of $180.00 for the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement. Please credit any overpayment or charge any underpayment to Deposit Account 19-1970.
☐	**37 CFR 1.97(d)**: This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c). ☐ This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e) AND ☐ Applicants hereby requests consideration of the reference(s) disclosed herein. Please charge Deposit Account 19-1970 in the amount of $180.00 under 37 C.F.R. 1.17(p). Please credit any overpayment or charge any underpayment to Deposit Account 19-1970. Election to pay the fee should not be taken as an indication that applicant(s) cannot execute a certification.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.D./

Certification (37 C.F.R. 1.97(e))
(Applicable only if checked)

☐ The undersigned certifies that:

☐ Each item of information contained in the Information Disclosure Statement submitted herewith 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 this statement. 37 C.F.R. 1.97(e)(1).

☐ A copy of the communication from the foreign patent office is enclosed.

OR

☐ No item of information contained in the Information Disclosure Statement submitted herewith was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

SHERIDAN ROSS P.C.

By: /Douglas W. Swartz/
Douglas W. Swartz
Registration No. 37,739
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: November 25, 2014

/Alex Dunn/ (12/09/2014)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.D./

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14253312	RICCI ET AL.
	Examiner	**Art Unit**
	ALEX C DUNN	3663

CPC					
Symbol				**Type**	**Version**
G07C		9	/ 00158	F	2013-01-01
G07C		9	/ 00126	I	2013-01-01
G08B		21	/ 0205	I	2013-01-01
B60Q		1	/ 00	I	2013-01-01
G08B		25	/ 016	I	2013-01-01
G08G		1	/ 0965	I	2013-01-01
H04W		76	/ 021	I	2013-01-01
H04W		48	/ 02	I	2013-01-01
H04W		4	/ 12	I	2013-01-01
H04W		4	/ 206	A	2013-01-01
H04W		84	/ 005	A	2013-01-01
G05D		23	/ 1917	I	2013-01-01
B60R		16	/ 037	I	2013-01-01
G07C		5	/ 00	I	2013-01-01
G07C		5	/ 008	I	2013-01-01
G05D		1	/ 0027	I	2013-01-01
G01C		21	/ 00	I	2013-01-01
G06F		17	/ 30864	I	2013-01-01
G01C		21	/ 34	I	2013-01-01
G05D		1	/ 0212	I	2013-01-01
B60W		40	/ 09	I	2013-01-01
G07C		5	/ 085	I	2013-01-01
G07C		5	/ 0808	I	2013-01-01
G06F		17	/ 30247	I	2013-01-01
G06K		9	/ 00268	I	2013-01-01
B60W		50	/ 08	I	2013-01-01
G06F		21	/ 00	I	2013-01-01
G06F		3	/ 017	I	2013-01-01
B60R		16	/ 0373	I	2013-01-01
H04W		4	/ 046	I	2013-01-01
G06K		9	/ 00255	I	2013-01-01

/ALEX C DUNN/ Examiner.Art Unit 3663	12/9/2014	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	21	
/THOMAS TARCZA/ Supervisory Patent Examiner.Art Unit 3663	12/09/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5B

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14253312	RICCI ET AL.
	Examiner	**Art Unit**
	ALEX C DUNN	3663

H04W		36	/	32	I	2013-01-01
G08G		1	/	166	I	2013-01-01
G01C		21	/	36	I	2013-01-01
G06Q		30	/	0633	I	2013-01-01
G06Q		30	/	0639	I	2013-01-01
G01C		21	/	3647	I	2013-01-01
G01C		21	/	26	I	2013-01-01
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/ALEX C DUNN/ Examiner.Art Unit 3663	12/9/2014	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	21	
/THOMAS TARCZA/ Supervisory Patent Examiner.Art Unit 3663	12/09/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5B

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14253312	RICCI ET AL.
	Examiner	**Art Unit**
	ALEX C DUNN	3663

H04W	12	/	08	A	2013-01-01

CPC Combination Sets					
Symbol			**Type**	**Set**	**Ranking**	**Version**
	/					
	/					

/ALEX C DUNN/ Examiner.Art Unit 3663	12/9/2014	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	21	
/THOMAS TARCZA/ Supervisory Patent Examiner.Art Unit 3663	12/09/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5B

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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14253312	RICCI ET AL.
	Examiner	**Art Unit**
	ALEX C DUNN	3663

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
701	36	G	0	6	F	21 / 00 (2013.0)						
CROSS REFERENCE(S)												
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)											

/ALEX C DUNN/ Examiner.Art Unit 3663	12/9/2014	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	21	
/THOMAS TARCZA/ Supervisory Patent Examiner.Art Unit 3663	12/09/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5B

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	14253312	RICCI ET AL.
	Examiner	**Art Unit**
	ALEX C DUNN	3663

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

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original

/ALEX C DUNN/ Examiner.Art Unit 3663	12/9/2014	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	21	
/THOMAS TARCZA/ Supervisory Patent Examiner.Art Unit 3663	12/09/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5B

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14253312	RICCI ET AL.
	Examiner	Art Unit
	ALEX C DUNN	3663

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
701	036	12/7/2014	Alex C. Dunn

SEARCH NOTES		
Search Notes	Date	Examiner
IP.com	12/7/2014	Alex C. Dunn
EAST	12/7/2014	Alex C. Dunn

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	Text	12/9/2014	Alex C. Dunn

/A.C.D./ Examiner.Art Unit 3663	

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	"20140309870"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/08 08:53
S2	4	"20020065046"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/08 09:04
S3	6	"20040036622"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/08 09:05
S4	15	"20020009978"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/08 09:12
S5	1559	(area ADJ2 zone) SAME vehicle	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/08 09:19
S6	1268	S5 AND @ay<"2013"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/08 09:20
S7	259	S6 AND "701".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/08 09:20
S8	0	S7 AND (discovery ADJ daemon)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/08 09:21
S9	0	S7 AND daemon	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/08 09:22
S10	3	S7 AND (discovery NEAR4 device)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/08 09:23

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	((discovery ADJ daemon) SAME4 (connect ADJ3 network) SAME4 (communication ADJ subsystem) SAME4 (predetermined ADJ area) SAME4 (area ADJ3 zone) SAME4 (permitting ADJ3 device) SAME4 (access ADJ3 network)).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2014/12/09 11:25

12/9/2014 11:30:28 AM
C:\Users\adunn\Documents\EAST\Workspaces\14253312.wsp

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BIB DATA SHEET

CONFIRMATION NO. 5072

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
14/253,312	04/15/2014	701	3663	6583-585

APPLICANTS

Flextronics AP, LLC, San Jose, CA, Assignee (with 37 CFR 1.172 Interest);

INVENTORS

Christopher P. Ricci, Saratoga, CA;
Octavian Chincisan, Richmond Hill, CANADA;
Alisher I. Yusupov, Richmond Hill, CANADA;

**** CONTINUING DATA ***************************

This appln claims benefit of 61/811,981 04/15/2013
and claims benefit of 61/865,954 08/14/2013
and claims benefit of 61/870,698 08/27/2013
and claims benefit of 61/891,217 10/15/2013
and claims benefit of 61/904,205 11/14/2013
and claims benefit of 61/924,572 01/07/2014
and claims benefit of 61/926,749 01/13/2014

**** FOREIGN APPLICATIONS ***************************

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05/02/2014

Foreign Priority claimed ☐ Yes ☑ No 35 USC 119(a-d) conditions met ☐ Yes ☐ No Verified and Acknowledged /ALEX C DUNN/ Examiner's Signature	☐ Met after Allowance Initials	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
		CA	51	21	3

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1560 Broadway
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Denver, CO 80202
UNITED STATES

TITLE

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BIB (Rev. 05/07).

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/253,312
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(Use as many sheets as necessary)				First Named Inventor	Christopher P. Ricci
				Art Unit	3663
				Examiner Name	DUNN, ALEX C
Sheet	1	of	8	Attorney Docket Number	6583-585

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Examiner Initials*	Cite No.[1]	Document Number Number-kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Examiner Signature	/Alex Dunn/ (12/09/2014)	Date Considered	12/09/2014

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(Use as many sheets as necessary)				Art Unit	3663
				Examiner Name	DUNN, ALEX C
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				Examiner Name	DUNN, ALEX C
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				Examiner Name	DUNN, ALEX C
Sheet	4	of	8	Attorney Docket Number	6583-585

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Examiner Signature	/Alex Dunn/ (12/09/2014)	Date Considered	12/09/2014

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				Filing Date	April 15, 2014
				First Named Inventor	Christopher P. Ricci
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14253312	NOA	12/19/2014	6583-585
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Examiner Initials*	Cite No.[1]	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, page(s), volume-issue number(s), publisher, city and/or country where published.
	120	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US2014/034088, mailed Dec. 24, 2014 (Attorney's Ref. No. 6583-549-PCT) 9 pages
	121	Official Action for U.S. Patent Application No. 14/253,836, mailed Feb. 24, 2015 (Attorney's Ref. No. 6583-537) 12 pages
	122	Official Action for U.S. Patent Application No. 14/253,706, mailed Jan. 29, 2015 (Attorney's Ref. No. 6583-550) 8 pages
	123	Official Action for U.S. Patent Application No. 14/253,729, mailed Mar. 06, 2015 (Attorney's Ref. No. 6583-555) 7 pages

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/253,312
				Filing Date	April 15, 2014
				First Named Inventor	Christopher P. Ricci
(Use as many sheets as necessary)				Art Unit	3663
				Examiner Name	DUNN, ALEX C
Sheet	5	of	5	Attorney Docket Number	6583-585

	124	Official Action for U.S. Patent Application No. 14/253,2014, mailed Jan. 26, 2015 (Attorney's Ref. No. 6583-561) 6 pages
	125	Official Action for U.S. Patent Application No. 14/252,858, mailed Jan. 26, 2015 (Attorney's Ref. No. 6583-565) 8 pages
	126	Official Action for U.S. Patent Application No. 14/253,034, mailed Jan. 26, 2015 (Attorney's Ref. No. 6583-566) 12 pages
	127	Notice of Allowance for U.S. Patent Application No. 14/253,405, mailed Mar. 05, 2015 (Attorney's Ref. No. 6583-567) 5 pages
	128	Official Action for U.S. Patent Application No. 14/252,876, mailed Jan. 30, 2015 (Attorney's Ref. No. 6583-568) 9 pages
	129	Official Action for U.S. Patent Application No. 14/253,334, mailed Jan. 27, 2015 (Attorney's Ref. No. 6583-586) 13 pages
	130	Notice of Allowance for U.S. Patent Application No. 14/253,058, mailed Jan. 28, 2015 (Attorney's Ref. No. 6583-600) 9 pages
	131	Official Action for U.S. Patent Application No. 14/253,022, mailed Feb. 20, 2015 (Attorney's Ref. No. 6583-602) 13 pages
	132	Official Action for U.S. Patent Application No. 14/253,251, mailed Dec. 29, 2014 (Attorney's Ref. No. 6583-607) 8 pages
	133	Official Action for U.S. Patent Application No. 14/253,388, mailed Jan. 30, 2015 (Attorney's Ref. No. 6583-609) 8 pages
	134	Official Action for U.S. Patent Application No. 14/253,727, mailed Jan. 06, 2015 (Attorney's Ref. No. 6583-619) 8 pages
	135	Official Action for U.S. Patent Application No. 14/253,743, mailed Feb. 12, 2015 (Attorney's Ref. No. 6583-626) 8 pages
	136	Official Action for U.S. Patent Application No. 14/253,766, mailed Dec. 12, 2014 (Attorney's Ref. No. 6583-627) 7 pages
	137	Notice of Allowance for U.S. Patent Application No. 14/253,506, mailed Mar. 06, 2015 (Attorney's Ref. No. 6583-637) 5 pages

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/252,858	04/15/2014	Christopher P. Ricci	6583-565	9964

111285 7590 01/26/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
01/26/2015	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):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/252,858	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) Status Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *4/15/2015*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

1. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

3. Claims 1 – 4, 6, 9, 11 – 14, 16 and 19 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Phelan et al., (20040225557).

4. (Claims 1 - 4 and 11 - 14): Phelan discloses a driver facts system comprising: one or more systems that track user behavior ([0003]), the user behavior including one or more of: one or more user actions and one or more user interactions with a vehicle (abstract; figs 1- 2; [0012]); and a storage system adapted to store the user behavior, wherein the tracked user behavior is associated with a driver and the storage system is capable of storing the tracked behavior for the driver from a plurality of vehicles (fig. 2; [0047]; [0052]).

5. (Claims 6, 9, 16 and 19): Phelan discloses a driver facts system, wherein the storage system that stores the user behavior is interrogatable by one or more of law enforcement, a vehicle manufacturer, a vehicle dealer, a vehicle repair shop, an insurance company, a warranty company, and another user ([0045]).

Claim Rejections - 35 USC § 103

6. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

7. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 5 and 15 are rejected under 35 U.S.C. 103 as being unpatentable over Phelan et al., (20040225557) as applied to claims 1 and 11 above, and further in view of Kobata (20020077985).

9. (Claims 5 and 15): Phelan discloses a driver facts system comprising: one or more systems that track user behavior ([0003]), the user behavior including one or more of: one or more user actions and one or more user interactions with a vehicle (abstract; figs 1- 2; [0012]). Phelan does not teach

preventing disablement of the tracking. However, in a related invention, Kobata teaches controlling and managing digital assets wherein disabling of the tracking of user behavior is prohibited ([0182]). It would have been obvious to one of ordinary skill in the art before the filing date of the claimed invention to modify Phelan to prohibit disablement of tracking, as a fairly common requirement in digital assets management.

10. Claims 7 – 8 and 17 - 18 are rejected under 35 U.S.C. 103 as being unpatentable over Phelan et al., (20040225557) as applied to claims 1 and 11 above, and further in view of Eikelenberg (20110309926).

11. (Claims 7 - 8 and 17 - 18): Phelan discloses a driver facts system comprising: one or more systems that track user behavior ([0003]), the user behavior including one or more of: one or more user actions and one or more user interactions with a vehicle (abstract; figs 1- 2; [0012]). Phelan does not teach modifying a route based on user behavior. However, in a related invention, Eikelenberg teaches routing for efficient energy consumption, wherein the user behavior is used as input to determine whether an intended vehicle route should be modified in conjunction with one or more of: traffic information, weather information, prior routes, purchase information, patterns, preferences, prior route modification decisions, and user input ([0051 – 0052]). It would have been obvious to one of ordinary skill in the art before the filing date of the claimed invention, to modify Phelan to change a route based on user behavior, as a way improve his device offering with a desired capability, given today's interest in energy efficient vehicles.

12. Claims 10 and 20 are rejected under 35 U.S.C. 103 as being unpatentable over Phelan et al., (20040225557).

13. (Claims 10 and 20): Maintaining data integrity by restricting who can modify stored data in a system is well known. It would be obvious to prevent a user from modifying their behavior in a system designed to track and record such behavior.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to form 892 for cited references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX C. DUNN whose telephone number is (571)270-5323. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Tarcza can be reached on 26979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ALEX C. DUNN
Examiner, Art Unit 3663

/THOMAS TARCZA/

Supervisory Patent Examiner, Art Unit 3663

Notice of References Cited	Application/Control No. 14/252,858	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2002/0077985 A1	06-2002	Kobata et al.	705/51
*	B	US-2002/0126876 A1	09-2002	Paul et al.	382/104
*	C	US-2004/0225557 A1	11-2004	Phelan et al.	705/011
*	D	US-2009/0284359 A1	11-2009	Huang et al.	340/426.1
*	E	US-2010/0106418 A1	04-2010	Kindo et al.	701/300
*	F	US-2010/0304640 A1	12-2010	Sofman et al.	446/456
*	G	US-2011/0309926 A1	12-2011	Eikelenberg et al.	340/439
*	H	US-2012/0059789 A1	03-2012	Sakai et al.	706/52
*	I	US-2014/0028542 A1	01-2014	Lovitt et al.	345/156
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	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.

Electronic Patent Application Fee Transmittal

Application Number:	14253312
Filing Date:	15-Apr-2014
Title of Invention:	VEHICLE-BASED MULTIMODE DISCOVERY
First Named Inventor/Applicant Name:	Christopher P. Ricci
Filer:	Douglas W. Swartz/Theresa Brown
Attorney Docket Number:	6583-585

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:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
		Total in USD ($)		**180**

Electronic Acknowledgement Receipt

EFS ID:	21748799
Application Number:	14253312
International Application Number:	
Confirmation Number:	5072
Title of Invention:	VEHICLE-BASED MULTIMODE DISCOVERY
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	111285
Filer:	Douglas W. Swartz/Theresa Brown
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-585
Receipt Date:	12-MAR-2015
Filing Date:	15-APR-2014
Time Stamp:	13:06:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$180
RAM confirmation Number	11358
Deposit Account	191970
Authorized User	

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

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 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	Foreign Reference	KR20060128484.pdf	417667 5924368ba1a6900a6faba8bcfc6a91daab0239ea	no	8
Warnings:					
Information:					
2	Other Reference-Patent/App/Search documents	6583-549-PCT_ISR-WO_12-24-2014.pdf	470177 2d427ef92f03fb6a2a40dc0886fda6a0c0c3add2	no	9
Warnings:					
Information:					
3	Other Reference-Patent/App/Search documents	6583-537_OA_02-24-2015.pdf	1086960 b8722b2fc2570924874700dce0c14344da9d458a	no	12
Warnings:					
Information:					
4	Other Reference-Patent/App/Search documents	6583-550_OA_01-29-2015.pdf	271947 1b9a57dd02dcc706fba75855b28da53bb12a7fce	no	8
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Information:					
5	Other Reference-Patent/App/Search documents	6583-555_OA_03-06-2015.pdf	248941 cd4a2577aadbae82627329ef7d4a56896bee4c60	no	7
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Information:					
6	Other Reference-Patent/App/Search documents	6583-561_OA_01-26-2015.pdf	214388 1e2966c13d3e1faaf41a0b91299a351b247568e6	no	6
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7	Other Reference-Patent/App/Search documents	6583-566_OA_01-26-2015.pdf	361804 52a3d729c26bcd09f5c7b94d1929c755ec70d5a2	no	12
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Information:					

8	Other Reference-Patent/App/Search documents	6583-567_NOA_03-05-2015.pdf	354150 71533493296f8f8dbbdedb7e21d9507393563470	no	5
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Information:					
9	Other Reference-Patent/App/Search documents	6583-568_OA_01-30-2015.pdf	288957 199cd3c10dcb444d9438dfef13bb6473e1441d9a	no	9
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Information:					
10	Other Reference-Patent/App/Search documents	6583-586_OA_01-27-2015.pdf	422982 66475b59f87a800f2c811ebb6b06f3eaacd2d146	no	13
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Information:					
11	Other Reference-Patent/App/Search documents	6583-600_NOA_01-28-2015.pdf	456442 154da2e34a0576f3c0ea8eec10feaa87e6e817e6	no	9
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Information:					
12	Other Reference-Patent/App/Search documents	6583-602_OA_02-20-2015.pdf	493138 11ffea2af5d5342cfe2b5c758a884e4e07bb09c6	no	13
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Information:					
13	Other Reference-Patent/App/Search documents	6583-607_OA_12-29-2014.pdf	252683 b79d0860047287dec1fb449f7041c21647bce31d	no	8
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Information:					
14	Other Reference-Patent/App/Search documents	6583-609_OA_01-30-2015.pdf	263052 5a994c6eafc847182150fb2206d2c1931a8477ba	no	8
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Information:					
15	Other Reference-Patent/App/Search documents	6583-619_OA_01-06-2015.pdf	295624 4fbe11cc986c12a39bc25adeaba5d83474b91c31	no	8
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Information:					
16	Other Reference-Patent/App/Search documents	6583-626_OA_02-12-2015.pdf	265256 cbc2cdde9b3a3d3c6248e5968a177b32af79dabf	no	8
Warnings:					
Information:					

17	Other Reference-Patent/App/Search documents	6583-627_OA_12-12-2014.pdf	258053 cc5e74ed08edaa1d2526912ba0e5921158ecbf8a	no	7
Warnings:					
Information:					
18	Other Reference-Patent/App/Search documents	6583-637_NOA_03-06-2015.pdf	354350 f0d9d78ab78d5ada3756d3f91ec625bfc1d6c5dc	no	5
Warnings:					
Information:					
19		6583-585_IDS_02.pdf	365861 4e435724c5af29b870b6218bffe5e78e2779bc8f	yes	8

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Transmittal Letter	1	3
	Information Disclosure Statement (IDS) Form (SB08)	4	8

Warnings:					
Information:					
20	Other Reference-Patent/App/Search documents	6583-565_OA_01-26-2015.pdf	272684 f399ae8f9cfff2dfcc1a709177575887746a26b8	no	8
Warnings:					
Information:					
21	Fee Worksheet (SB06)	fee-info.pdf	30783 805b2ae366b1daae7358ec667e5b5bfaf31c55b5	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	7445899		

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.

Espacenet

Bibliographic data: KR20060128484 (A) — 2006-12-14

NAVIGATION SYSTEM WHICH IT FOLLOWS IN DRIVER PROPENSITY

Inventor(s): NAM KI MO [KR] ± (NAM, KI MO)

Applicant(s): HYUNDAI AUTONET CO LTD [KR] ± (HYUNDAI AUTONET CO., LTD)

Classification: **- international:** ***G08G1/0968***
- cooperative:

Application number: KR20050049976 20050610

Priority number(s): KR20050049976 20050610

Also published as: KR100715181 (B1)

Abstract of KR20060128484 (A)

An active route searching and information guiding system according to driver's tendency is provided to supply the search information of the driver about a corresponding region if necessary, by storing the travel routes every time when the driver drives on a travel route except the supplied route and determining the priority order of the travel routes according to the frequency. In a navigation system, a driver tendency information detecting unit(50) comprises a searched route detecting unit(51) storing a searched route if a user searches the route; a user travel route detecting unit (52) storing the travel route when the user gets out of the searched route and researches another route; and a travel route learning and detecting unit(53) analyzing and storing the priority order of the searched roads and traveling patterns by analyzing the stored travel route.; A driver tendency information database(60) stores the analysis information and route information detected by the driver tendency information detecting unit. A learning route applying and searching unit(70) judges whether the analysis information stored in the driver tendency information database is applied to the present search range or not and searches the route suitable for the user travel route by regulating searching elements.

(19)대한민국특허청(KR)
(12) 등록특허공보(B1)

(51) 。Int. Cl.
G08G 1/0968 (2006.01)

(45) 공고일자 2007년05월07일
(11) 등록번호 10-0715181
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(21) 출원번호 10-2005-0049976
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(54) 운전자 성향에 따른 능동적 경로탐색 정보 안내 시스템

(57) 요약

본 발명은 네비게이션 시스템에 있어서, 운전자 성향을 고려하여 능동적인 경로탐색 정보를 제공하기 위한 알고리즘이 적용되는 경로탐색 정보 안내 시스템에 관한 것이다.

본 발명에서는 차량이 이동위치를 고려하여 운전자의 취향을 데이터 베이스화하여 운전자 성향정보로서 저장하고, 추후 경로 탐색시 상기한 운전자 성향정보를 고려하여 사용자의 의도와 일치하는 효율적인 경로탐색 및 안내가 가능하도록 하는 운전자 성향에 따른 능동적 경로탐색 정보 안내 시스템을 제공하고자 한다.

대표도

도 1

특허청구의 범위

청구항 1.

네비게이션 시스템에 있어서,

사용자에 의해 경로 탐색이 이루어질 경우 탐색된 경로를 저장하는 탐색경로 검출부와, 탐색된 경로를 이탈하고 재탐색이 이루어지는 경우 기존 탐색과의 비교를 통해 주행 경로를 저장하는 사용자 주행경로검출부와, 저장된 사용자의 주행경로를 분석하여 탐색도로의 우선순위 및 주행패턴을 분석하여 저장하는 주행경로학습검출부를 포함하는 운전자 성향정보 검출수단;

상기 운전자 성향정보 검출수단을 통해 검출된 경로 정보 및 분석정보가 저장되는 운전자 성향정보 데이터베이스;

운전자 성향정보 데이터 베이스에 저장된 분석정보를 이용하여 현재 탐색구간에서 적용가능성을 판단하고, 탐색요소를 조정하여 사용자 주행경로에 적합한 경로를 탐색하여 제공하는 학습경로 적용 탐색수단;을 포함하여 구성되되,

상기 주행경로 학습 검출부에서 생성되어 운전자 성향정보 데이터 베이스에 저장되는 분석정보는,

(A). 가장 자주 이용되는 주행 경로순으로 궤적 우선 순위정보,

(B). 사용자의 출발지, 목적지, 권역별 주요 (유,무료) 도로 이용 패턴 정보

(C). 사용자의 주행 경로중 주요 통과점 패턴 정보

(D). 사용자가 이용하는 주요 우회 도로 패턴 구간 정보

인 것을 특징으로 하는 운전자 성향에 따른 능동적 경로탐색 정보 안내 시스템.

청구항 2.

삭제

명세서

발명의 상세한 설명

발명의 목적

발명이 속하는 기술 및 그 분야의 종래기술

본 발명은 네비게이션 시스템에 있어서, 운전자 성향을 고려하여 능동적인 경로탐색 정보를 제공하기 위한 알고리즘이 적용되는 경로탐색 정보 안내 시스템에 관한 것이다.

지도를 저장매체에 담아 컴퓨터와 같은 단말기수단을 이용하여 사용자들이 쉽게 지도를 표시하여 살펴볼 수 있도록 하는 지리정보시스템(GIS ; Geographic Information System)을 시작으로, 근래에 이르러서는 인공위성을 이용하는 범용지구측위시스템(GPS ; Global Positioning System) 정보를 이용하여 자신의 위치를 검출, 확인하고, 이의 위치로부터 원하는 위치까지의 거리 및 최단거리 루트(route)를 쉽게 찾아 볼 수 있도록 하는 네비게이션 시스템의 기술이 급속도로 발전하고 상용화되어 많은 부가적인 서비스가 가능하게 되었다.

GPS는 표준 좌표계에서의 위치, 속도, 시간 측정을 가능하게 해주는 인공위성을 이용한 첨단 항법체계로써, 20,183km 상공에서 1일 2회 지구를 공전하며 현재 위치에 대한 좌표신호와 좌표신호를 송신한 시각에 대한 신호를 송신하는 GPS 위성을 6개의 궤도면에서 각각 3개씩 총 18개(각 궤도에 대한 예비 위성을 포함하면 총 24개)를 등간 격으로 배치한 후, GPS 수신기를 사용하여 상기 GPS 위성에서 송신된 신호를 수신, 처리함으로써, GPS 수신기가 존재할 수 있는 위치를 검출할 수 있는 장치이며, GPS 안테나와 GPS 수신회로로 이루어지는 GPS 수신기를 사용하여 3개 이상의 GPS 위성에서 송신되는 신호를 검출하여 자기의 신호를 검출하는 장치이다.

현재 많은 네비게이션 시스템에서 채용하여 사용하고 있으며, 일반적으로 네비게이션 시스템이라 함은 GIS와 GPS의 결합된 형태로써, 지도로 제작된 지리정보에서 위치 정보인 GPS정보를 이용하여 사용자가 원하는 위치를 쉽게 찾을 수 있도록 하는 것이라 할 수 있다.

최근들어 네비게이션의 대중화로 인하여 다양한 네비게이션 장치가 출시되고 있는 바, 종래의 네비게이션 장치는 목적지의 설정에 따라 지도 데이터 베이스에 의존한 최소 비용을 계산하고 이에 따라 산출된 경로를 운전자에게 제공하여 경로 안내를 수행하고 있다.

그러나 이와 같은 방법은 지도 데이터 베이스에 매우 의존적이라서, 단순히 최단 경로만을 고려하여 경로 탐색정보를 운전자에게 제공하게 되므로, 운전자의 불만이 야기되고 있다.

이러한 종래 네비게이션 시스템에서 사용자가 원하는 경로를 설정하기 위해서는 매번 수동으로 많은 설정을 해야하는 불편함이 뒤따른다.

발명이 이루고자 하는 기술적 과제

본 발명에서는 차량이 이동위치를 고려하여 운전자의 취향을 데이터 베이스화하여 운전자 성향정보로서 저장하고, 추후 경로 탐색시 상기한 운전자 성향정보를 고려하여 사용자의 의도와 일치하는 효율적인 경로탐색 및 안내가 가능하도록 하는 운전자 성향에 따른 능동적 경로탐색 정보 안내 시스템을 제공하고자 한 것이다.

발명의 구성

본 발명은 네비게이션 시스템에 있어서,

사용자에 의해 경로 탐색이 이루어질 경우 탐색된 경로를 저장하는 탐색경로 검출수단과, 탐색된 경로를 이탈하고, 재탐색이 이루어지는 경우 기존 탐색과의 비교를 통해 주행 경로를 저장하는 사용자 주행경로검출수단과, 저장된 사용자의 주행경로를 분석하여 탐색도로의 우선순위 및 주행패턴을 분석하여 저장하는 주행경로학습검출수단을 포함하는 운전자 성향정보 검출수단과,

상기 운전자 성향정보 검출수단을 통해 검출된 경로 정보 및 분석정보가 저장되는 데이터베이스와,

데이터 베이스에 저장된 분석정보를 이용하여 현재 탐색구간에서 적용가능성을 판단 및 그 탐색요소를 조정하여 사용자 주행경로에 적합한 경로를 탐색하여 사용자에게 제공하는 학습경로 적용 탐색수단을 포함하여 구성되는 것을 특징으로 한다.

이와 같은 특징을 갖는 본 발명을 첨부된 도면에 도시된 실시예를 참조하여 그 구성 및 작용을 설명하면 다음과 같다.

도 1에 도시된 바와 같이, GPS 위성으로부터 송출되는 신호를 수신하여 차량의 자기 위치좌표를 검출하기 위한 GPS 수신부(10)와, 위치 좌표에 대하여 사용자에게 제공할 지리정보가 저장된 지리정보 데이터베이스(20)와, GPS 수신부(10)로부터 인식된 차량의 현재 위치에 대하여 지리정보 저장부(20)의 지리정보에 따라서 음성 또는 영상을 통해 사용자의 탐색경로 및 주행경로에 따른 안내정보를 제공하는 네비게이션 제어부(30)와, 사용자 키이입력부(40)를 포함하는 네비게이션 시스템에 있어서,

사용자에 의해 경로 탐색이 이루어질 경우 탐색된 경로를 저장하는 탐색경로 검출부(51)와, 탐색된 경로를 이탈하고 재탐색이 이루어지는 경우 기존 탐색과의 비교를 통해 주행 경로을 저장하는 사용자 주행경로검출부(52)와, 저장된 사용자의 주행경로를 분석하여 탐색도로의 우선순위 및 주행패턴을 분석하여 저장하는 주행경로학습검출부(53)를 포함하는 운전자 성향정보 검출부(50)와,

상기 운전자 성향정보 검출부(50)를 통해 검출된 경로 정보 및 분석정보가 저장되는 운전자 성향정보 데이터베이스(60)와,

데이터 베이스(60)에 저장된 분석정보를 이용하여 현재 탐색구간에서 적용가능성을 판단하고, 탐색요소를 조정하여 사용자 주행경로에 적합한 경로를 탐색하여 제공하는 학습경로 적용 탐색부(70)를 포함하여 구성된다.

이와 같은 본 발명 운전자 성향에 따른 능동적 경로탐색 정보 안내 시스템은, GPS시스템에 운전자 주행정보를 수집하고, 이로부터 운전자의 주행 성향을 파악하여, 이에 적합한 탐색경로를 제공할 수 있도록 네비게이션 시스템에 운전자 성향 검출부(50)를 구성한다.

운전자 성향 검출부(50)는 탐색경로 검출부(51), 주행경로검출부(52), 주행경로 학습 검출부(53)로 구성된다.

먼저, 탐색경로 검출부(51)는 운전자가 탐색한 경로를 검출하여 운전자 성향정보 데이터 베이스(60)에 저장하여, 운전자가 자주하는 탐색경로를 파악할 수 있도록 한다.

상기 주행경로 검출부(52)는 네비게이션 시스템에서 제공한 탐색경로에서 이탈한 후, 다시 재탐색을 요구할 경우에 기존 탐색과의 비교를 통해 주행경로를 운전자 성향정보 데이터 베이스(60)에 저장하여, 운전자의 주행경로를 파악할 수 있도록 한다.

주행경로 학습 검출부(53)는 저장된 운전자의 주행경로를 분석하여 탐색 도로의 우선 순위 및 주행패턴을 분석하여 저장한다.

(A). 가장 자주 이용되는 주행 경로순으로 궤적 우선 순위를 저장

(B). 사용자의 출발지, 목적지, 권역별 주요 (유,무료) 도로 이용 패턴 저장

(C). 사용자의 주행 경로중 주요 통과점 패턴 저장

(D). 사용자가 이용하는 주요 우회 도로 패턴 및 구간 저장

이와 같이 분석정보를 생성할 수 있으며, 분석정보는 이에 국한되지 않고, 다양하게 세분화하여 지정할 수 있다.

이와 같은 분석정보를 이용하여 운전자가 탐색 요구시 현재 탐색 구간에서 적용가능성을 판단하고, 또한 해당 분석정보에 따라 탐색요소를 조정하여 사용자 주행 경로에 적합한 경로 탐색을 제공하도록 학습경로 적용 탐색부(70)가 구성된다.

이와 같은 본 발명 운전자 성향에 따른 능동적 경로탐색 정보 안내 시스템의 동작과정을 설명하면 다음과 같다.

따라서 제어부(30)에서는 GPS 수신부(10)를 통해 파악된 차량의 현위치정보로 사용자가 요구한 탐색정보를 지리정보 데이터 베이스(20)에 저장된 정보를 이용하여 영상 또는 음성을 통해 운전자에게 알려주게 된다.

이때 탐색경로 검출부(51)에서는 탐색된 경로를 운전자 성향정보 데이터 베이스(60)에 저장한다.

이후, 운전자가 주행을 시작하여 제공한 탐색경로를 이탈하게 될 때, 운전자가 재 탐색을 요구하게 되면, 운전자 성향정보 검출부(50)의 주행경로검출부(52)는 기존 탐색과 비교하여 주행경로를 운전자 성향정보 데이터 베이스(60)에 저장한다.

이와 같이 저장된 운전자 주행정보를 이용하여 주행경로 학습검출부(53)에서는 탐색정보로 제공할 도로의 우선순위를 결정하여 운전자 성향정보 데이터 베이스(60)에 저장하는 바,

도 2는 이의 과정을 나타낸 플로우챠트이다.

탐색된 정보로부터 탐색경로열 저장, 출발지, 목적지, 권역을 저장한다.

이후, 재탐색이 요구되면, 재탐색지점을 등록(저장)하고, 재탐색 구간을 저장(도로 등급 및 경로열), 그리고 운전자의 주행경로를 저장한다.

이와 같은 정보로서 주행경로 학습검출부(53)에서 재탐색 지점 통과점을 저장하고, 이용 빈도수를 판단하여 주행경로의 우선순위를 판단하여 저장하고, 출발지, 목적지에 대한 도로의 등급(유료, 무료, 일반도로 등)을 결정하여 우선순위를 분석정보로 저장한다.

즉, 출발지, 목적지가 선택되어 경로탐색이 이루어진 후, 출발지, 목적지의 권역 및 탐색 경로열을 저장하고, 주행중 재탐색이 발생할 때마다 재탐색 지점 및 주행경로를 저장하고, 이에 대한 정보를 통과점 등록, 이용 빈도에 따른 주행경로 우선순위 설정, 주행도로 등급의 우선 순위 설정을 통하여 다음 탐색 알고리즘 수행시 이용할 수 있는 데이터를 생성하는 것이다.

한편, 학습경로 적용 탐색부(70)에서는 운전자가 목적지를 입력하여 탐색정보를 요구하게 되면, 운전자 성향 정보 데이터베이스(60)에 저장된 분석정보를 이용하여, 현재 운전자 요구한 탐색구간에 적용가능한지를 판단한다.

판단결과 적용한 가능한 경우 운전자에게 제공할 탐색요소를 분석된 정보에 맞게 조정하여 운전자 주행경로에 적합한 경로탐색 정보를 제공한다.

즉, 출발지, 목적지 권역분석, 학습된 주요 도로이용 패턴 적용, 주요 통과점 적용 여부 판단 및 탐색 적용, 주요 우회도로 구간 적용 여부 판단 및 탐색 적용 등에 관하여 판단하고, 가능한 부분에 대하여 해당 정보로부터 탐색요소를 수정하여 운전자에게 제공하는 것이다.

도 3은 이의 과정을 나타낸 플로우챠트이다.

운전자가 요구한 출발지,목적지 권역이 일치하는 가를 판단한다.

즉, 운전자 성향정보 데이터 베이스(60)에 이전에 이와 같은 출발지와 목적지에 대하여, 탐색 제공후 재탐색에 의해 주행경로가 저장되고, 이에대한 분석정보가 생성된 정보가 있는 가를 판단하는 단계를 의미한다.

권역이 일치할 경우 운전자 성향정보 데이터 베이스(60)에 저장된 분석정보를 이용하여 도로 등급 우선순위에 따라 팩터를 수정하여 각 통과점(안내정보를 제공하기 위한 지점)을 경유할 때마다 저장된 주행경로 우선 순위에 따라 경로를 수정하여 운전자의 주행경로를 안내하게 된다.

즉, 출발지, 목적지 권역이 기존에 저장된 데이터와 일치하는 것이 있는 지를 검색하고, 일치하는 경우 저장된 도로 등급 우선순위를 적용하고, 생성된 경로중 통과점에 등록된 지점과 일치하는 지점이 존재하는 경우 해당 구간을 저장된 경로열로 대치하고 경로 안내가 되도록 한다.

이와 같은 과정을 통해 운전자가 선호하는 주행경로를 능동적으로 안내하게 된다.

발명의 효과

이와 같은 본 발명은, 제공된 탐색 경로외의 주행경로를 운전자가 탐색하여 주행하게 될 때마다 운전자의 주행경로를 저장하고, 이의 빈도수에 따라 우선순위(등급)을 결정하여 분석정보로 저장하고, 이후 해당 구간에 대한 탐색정보가 필요한 경우 해당하는 분석정보를 이용하여 운전사의 탐색정보를 제공하도록 한 것으로, 이에 따르면 운전자의 성향에 따른 능동적인 경로 탐색정보를 제공할 수 있게 된다.

도면의 간단한 설명

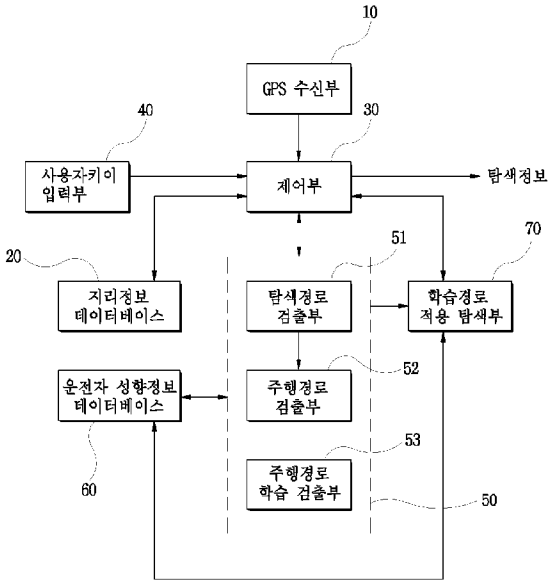
도 1은 본 발명 운전자 성향에 따른 능동적 경로탐색 정보 안내 시스템의 구성을 보인 블록도.

도 2는 본 발명에 있어서, 운전자의 주행경로 저장 및 분석정보생성 알고리즘을 나타낸 플로우챠트.

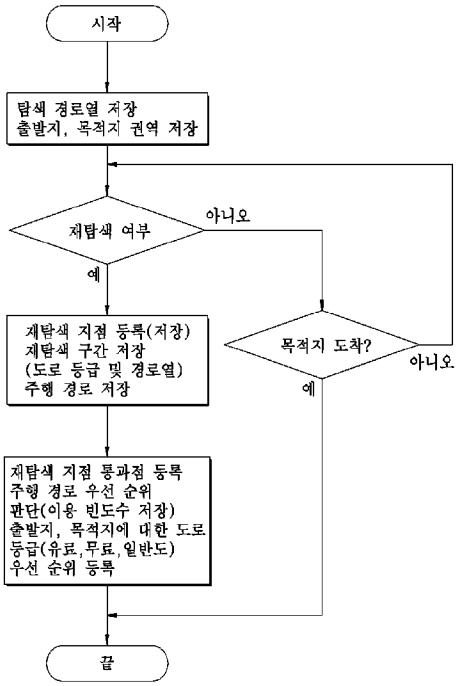
도 3은 본 발명에 있어서, 분석정보를 이용하여 운전자의 경로 탐색정보를 제공하는 알고리즘을 나타낸 플로우챠트.

도면

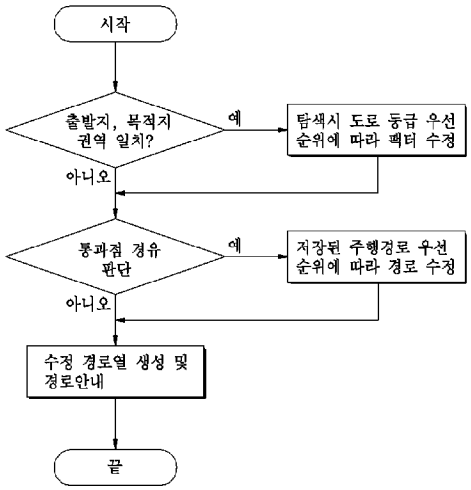
도면1


10
GPS 수신부
40
30
사용자키이 입력부
제어부
탐색정보
20
51
70
지리정보 데이터베이스
탐색경로 검출부
학습경로 적용 탐색부
52
운전자 성향정보 데이터베이스
주행경로 검출부
53
주행경로 학습 검출부
60
50

도면2


시작
탐색 경로열 저장
출발지, 목적지 권역 저장
재탐색 여부
아니오
예
재탐색 지점 등록(저장)
재탐색 구간 저장
(도로 등급 및 경로열)
주행 경로 저장
목적지 도착?
아니오
예
재탐색 지점 통과점 등록
주행 경로 우선 순위
판단(이용 빈도수 저장)
출발지, 목적지에 대한 도로
등급(유료,무료,일반도)
우선 순위 등록
끝

도면3


시작
출발지, 목적지 권역 일치?
예
탐색시 도로 등급 우선 순위에 따라 펙터 수정
아니오
통과점 경유 판단
예
저장된 주행경로 우선 순위에 따라 경로 수정
아니오
수정 경로열 생성 및 경로안내
끝

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: RAQUEL F. BUCKLEY
SHERIDAN ROSS P.C.
1560 BROADWAY, SUITE 1200
DENVER, CO 80202

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

	Date of mailing *(day/month/year)* 24 DEC 2014
Applicant's or agent's file reference 6583-549-PCT	**FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No. PCT/US2014/034088	International filing date *(day/month/year)* 15 April 2014
Applicant FLEXTRONICS AP, LLC	

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

   Filing of amendments and statement under Article 19:
   The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

   When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

   How? Directly to the International Bureau of WIPO preferably through ePCT or on paper to, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70

   For more detailed instructions, see *PCT Applicant's Guide*, International Phase, paragraphs 9.004 – 9.011.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ **With regard to any protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
   ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with any request to forward the texts of both the protest and the decision thereon to the designated Offices.
   ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

   The applicant may **submit comments on an informal basis on the written opinion of the International Searching Authority** to the International Bureau. These comments will be made available to the public after international publication. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established.

   Shortly after the expiration of **18 months from the priority date, the international application will be published** by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90*bis*.1 and 90*bis*.3).

   Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for **entry into the national phase** before those designated Offices. In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months. For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the *PCT Applicant's Guide*, National Chapters.

   Within **19 months from the priority date, the applicant may request that a supplementary international search be carried out** by a different International Searching Authority that offers this service (Rule 45*bis*.1). The procedure for requesting supplementary international search is described in the *PCT Applicant's Guide*, International Phase, paragraphs 8.006-8.032.

Name and mailing address of the ISA/ Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 Telephone No. PCT OSP: 571-272-7774

Form PCT/ISA/220 (July 2014)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 6583-549-PCT	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US2014/034088	International filing date *(day/month/year)* 15 April 2014	(Earliest) Priority Date *(day/month/year)* 15 April 2013
Applicant FLEXTRONICS AP, LLC		

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 4 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 43.6*bis*(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. 20

☒ 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.

Form PCT/ISA/210 (first sheet) (July 2009)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2014/034088

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
See extra sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-7

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2014/034088

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - G06Q 30/02 (2014.01)
USPC - 705/14.62
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)
IPC(8) - G06F 17/30; G06Q 30/00, 30/02 (2014.01)
USPC - 705/14.4, 14.49, 14.53, 14.62, 14.66

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
CPC - G06Q 30/02, 0241, 0251, 0255, 0265, 0269 (2014.02) (keyword delimited)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PatBase, Google Patents, Google Scholar
Search Terms Used: vehicular advertising, creating targeted advertising profiles based on user behavior, contextual advertising

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X -- Y	US 2011/0078024 A1 (MESSIER et al) 31 March 2011 (31.03.2011) entire document	1-3, 5-7 --- 4
Y	US 2003/0101451 A1 (BENTOLILA et al) 29 May 2003 (29.05.2003) entire document	4
A	US 2007/0061057 A1 (HUANG et al) 15 March 2007 (15.03.2007) entire document	1-7
A	US 2012/0047530 A1 (SHKEDI) 23 February 2012 (23.02.2012) entire document	1-7

☐ Further documents are listed in the continuation of Box C. ☐

* 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
08 December 2014	24 DEC 2014
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/210 (second sheet) (July 2009)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2014/034088

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claims 1-7, drawn to a method comprising recording information associated with at least one user.
Group II, claims 8-15, drawn to a vehicular advertising system comprising listening for a user response to a presented advertisement.

The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature of the Group I invention: presenting an advertisement based at least partially on the stored advertising as claimed therein is not present in the invention of Group II. The special technical feature of the Group II invention: listen for a user response to the presented advertisement; determine that at least some of the user response includes information associated with the presented advertisement; and send at least one advertiser the information associated with the presented advertisement as claimed therein is not present in the invention of Group I.

Groups I and II lack unity of invention because even though the inventions of these groups require the technical feature of recording information associated with at least one user in a vehicle; determining that at least some of the recorded information includes advertising information; associating, the advertising information with the at least one user; storing, in a memory, the advertising information; and presenting an advertisement based at least partially on the stored advertising information, to the at least one user in the vehicle, this technical feature is not a special technical feature as it does not make a contribution over the prior art.

Specifically, US 2011/0078024 A1 (MESSIER et al) 31 March 2011 (31.03.2011) teaches recording information associated with at least one user in a vehicle (telematics device records one or more transactions made by a user of a vehicle, Para. 39); determining that at least some of the recorded information includes advertising information (telematics device determines whether the user has utilized one or more advertisements for carrying out the one or more transactions, Para. 39); associating, the advertising information with the at least one user (the advertising module provisions the one or more advertisements based on the user behavior, Para. 38); storing, in a memory, the advertising information (data collected by telematics device, including one or more advertisements, are stored in storage, Paras. 44 and 46); and presenting an advertisement based at least partially on the stored advertising information, to the at least one user in the vehicle (advertising module determines which advertisements to be provisioned to the user of the vehicle based on data collected by telematics device, including one or more advertisements, which are stored in storage, Paras. 37, 44, and 46).

Since none of the special technical features of the Group I or II inventions are found in more than one of the inventions, unity of invention is lacking.

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: RAQUEL F. BUCKLEY
SHERIDAN ROSS P.C.
1560 BROADWAY, SUITE 1200
DENVER, CO 80202

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	24 DEC 2014

Applicant's or agent's file reference	FOR FURTHER ACTION
6583-549-PCT	See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2014/034088	15 April 2014	15 April 2013

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G06Q 30/02 (2014.01)
USPC - 705/14.62

Applicant FLEXTRONICS AP, LLC

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 43*bis*.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 66.1*bis*(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.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	08 December 2014	Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2014/034088

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 43*bis*.1(a))

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 filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

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 in 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.
PCT/US2014/034088

Box No. IV Lack of unity of invention

1. ☒ In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the appicable time limit:

   ☐ paid additional fees

   ☐ paid additional fees under protest and, where applicable, the protest fee

   ☐ paid additional fees under protest but the applicable protest fee was not paid

   ☒ not paid additional fees

2. ☐ This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.

3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is

   ☐ complied with

   ☒ not complied with for the following reasons:

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claims 1-7, drawn to a method comprising recording information associated with at least one user.
Group II, claims 8-15, drawn to a vehicular advertising system comprising listening for a user response to a presented advertisement.

The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature of the Group I invention: presenting an advertisement based at least partially on the stored advertising as claimed therein is not present in the invention of Group II. The special technical feature of the Group II invention: listen for a user response to the presented advertisement; determine that at least some of the user response includes information associated with the presented advertisement; and send at least one advertiser the information associated with the presented advertisement as claimed therein is not present in the invention of Group I.

Groups I and II lack unity of invention because even though the inventions of these groups require the technical feature of recording information associated with at least one user in a vehicle; determining that at least some of the recorded information includes advertising information; associating, the advertising information with the at least one user; storing, in a memory, the advertising information; and presenting an advertisement based at least partially on the stored advertising information, to the at least one user in the vehicle, this technical feature is not a special technical feature as it does not make a contribution over the prior art.

Specifically, US 2011/0078024 A1 (MESSIER et al) 31 March 2011 (31.03.2011) teaches recording information associated with at least one user in a vehicle (telematics device records one or more transactions made by a user of a vehicle, Para. 39); determining that at least some of the recorded information includes advertising information (telematics device determines whether the user has utilized one or more advertisements for carrying out the one or more transactions, Para. 39); associating, the advertising information with the at least one user (the advertising module provisions the one or more advertisements based on the user behavior, Para. 38); storing, in a memory, the advertising information (data collected by telematics device, including one or more advertisements, are stored in storage, Paras. 44 and 46); and presenting an advertisement based at least partially on the stored advertising information, to the at least one user in the vehicle (advertising module determines which advertisements to be provisioned to the user of the vehicle based on data collected by telematics device, including one or more advertisements, which are stored in storage, Paras. 37, 44, and 46).

Since none of the special technical features of the Group I or II inventions are found in more than one of the inventions, unity of invention is lacking.

4. Consequently, this opinion has been established in respect of the following parts of the international application:

   ☐ all parts

   ☒ the parts relating to claims Nos. 1-7

Form PCT/ISA/237 (Box No. IV) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2014/034088

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

1. Statement

Novelty (N)	Claims	4	YES
	Claims	1-3, 5-7	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-7	NO
Industrial applicability (IA)	Claims	1-7	YES
	Claims	None	NO

2. Citations and explanations:

Claims 1-3 and 5-7 lack novelty under PCT Article 33(2) as being anticipated by Messier et al., hereinafter referred to as Messier.

Regarding claim 1, Messier discloses a method (Para. 6), comprising: recording information associated with at least one user in a vehicle (telematics device records one or more transactions made by a user of a vehicle, Para. 39); determining that at least some of the recorded information includes advertising information (telematics device determines whether the user has utilized one or more advertisements for carrying out the one or more transactions, Para. 39); associating, the advertising information with the at least one user (the advertising module provisions the one or more advertisements based on the user behavior, Para. 38); storing, in a memory, the advertising information (data collected by telematics device, including one or more advertisements, are stored in storage, Paras. 44 and 46); and presenting an advertisement based at least partially on the stored advertising information, to the at least one user in the vehicle (advertising module determines which advertisements to be provisioned to the user of the vehicle based on data collected by telematics device, including one or more advertisements, which are stored in storage, Paras. 37, 44, and 46).

Regarding claim 2, Messier discloses wherein recording is associated with an information receiving system, wherein the information receiving system comprises at least one of a plurality of vehicle sensors, user interface devices, and information exchange devices (recording the one or more transactions by the user is associated with a telematics device which is configured to monitor, aggregate, send and/or receive information to and from the vehicle, Para. 19).

Regarding claim 3, Messier discloses wherein the recordings are based at least partially on a plurality of observations made by the vehicle, where in the plurality of observations include a user behavior (telematics device integrated with the vehicle's on board diagnostics system records one or more transactions by the user, Paras. 19 and 39).

Regarding claim 5, Messier discloses wherein the advertising information may include at least one of preferred brands, purchasing decisions, advertisement effectiveness, and predictive advertisement measures (telematics device determines whether the user has utilized one or more advertisements for carrying out the one or more transactions, Para. 39).

Regarding claim 6, Messier discloses wherein an advertisement management module is configured to associate an advertisement based at least in part on the advertising information (advertising module determines which advertisements to be provisioned to the user of the vehicle based on data collected by telematics device, including one or more advertisements used by the user for one or more transactions, Paras. 37, 44, and 46).

Regarding claim 7, Messier discloses wherein the advertisement is presented to the at least one user via a broadcast system (the one or more advertisements are provisioned to the user on a mobile device connected to a wireless network, Paras. 20 and 38).

Claim 4 lacks an inventive step under PCT Article 33(3) as being obvious over Messier in view of Bentolila et al., hereinafter referred to as Bentolila.

Regarding claim 4, Messier discloses determining whether a user profile exists (the telematics device 122 is configured for determining the iris profile of the user, Para. 19). Messier fails to explicitly disclose retrieving the user profile, when the user profile is determined to exist; and creating the user profile, when the user profile is determined not exist. Bentolila is in the field of targeted advertising (abstract) and further teaches retrieving the user profile, when the user profile is determined to exist (the preference agent retrieves the demographic profiles of the viewers and the meta data contained in each advertisement to describe the target audience for the particular advertisement, Para. 336); and creating the user profile, when the user profile is determined not exist (the preference agent further contains software that allows it to create a demographic profile for each viewer, Para. 335). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine retrieving the user profile, when the user profile is determined to exist; and creating the user profile, when the user profile is determined not exist with the invention of Messier, based on the teachings of Bentolila, for the purpose of custom tailoring narrowly focused, targeted advertisements (Bentolila, Para. 335).

Claims 1-7 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,836	04/15/2014	Christopher P. Ricci	6583-537	9667

111285 7590 02/24/2015

Sheridan Ross P.C.
1560 Broadway
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Denver, CO 80202

EXAMINER
PAIGE, TYLER D

ART UNIT	PAPER NUMBER
3661	

NOTIFICATION DATE	DELIVERY MODE
02/24/2015	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):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,836	Applicant(s) RICCI ET AL.	
	Examiner TYLER PAIGE	Art Unit 3661	AIA (First Inventor to File) Status Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *04/15/2014*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *04/15/2014* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date *11/25/2014*.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

DETAILED ACTION

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 an application filed on 04/15/2015. The applicant submits one Information Disclosure Statement dated 11/25/2014. The applicant claims Domestic priority to numerous applications with the earliest filing date of 11/16/2012.

Claim Rejections - 35 USC § 102

1. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(2) the claimed invention was described in a patent issued under section 151, or in an application for patent published or deemed published under section 122(b), in which the patent or application, as the case may be, names another inventor and was effectively filed before the effective filing date of the claimed invention.

3. Claims 1 - 7, 10 - 14, and 16 – 19 are rejected under 35 U.S.C. 102(a)(2) as being anticipated by Burns US 2002/0143461.

4. As per claim 1, A method for providing navigation information for a control server, comprising: a first control server, including a processor, determining that a vehicle in a traffic control system is leaving a first zone; the first control server determining a second zone to which a vehicle is entering; and the first control server passing the vehicle to the second zone. (claim 1)

5. As per claim 2, The method of claim 1, wherein a second control server receives the vehicle into the second zone. (claim 1)

6. As per claim 3, The method of claim 2, wherein the first control server maintains the vehicle as an item in a first. (claims 1)

7. As per claim 4, The method of claim 3, wherein, when the first control server passes the vehicle to the second zone, the second control server accepts the vehicle as an item in a second queue administered by the second control server. (paragraphs 0043, 0058, and claim 1)

8. As per claim 5, The method of claim 4, further comprising: the second control server establishing communication with the vehicle; and the second control determining if the vehicle has confirmed that communication has been established. (paragraphs 0043, 0058, and claim 1)

9. As per claim 6, The method of claim 5, further comprising, if the vehicle has not confirmed that communication has been established, the second control server re-establishing communication with the vehicle. (paragraphs 0043, 0058, and claim 1)

10. As per claim 7, The method of claim 6, wherein each zone is defined by an extents. (paragraphs 0043, 0058, and claim 1)

11. As per claim 10, The method of claim 9, wherein the first control server passes the vehicle to the second zone when a boundary condition is met that defines when to pass control of the vehicle.

12. As per claim 11, A control server comprising: a processor operable to execute one or more modules, the modules comprising: a traffic control module operable to determine that a vehicle in a traffic control system is leaving a first zone; a zonal communication module operable to: determine a second zone to which a vehicle is entering; and pass the vehicle to the second zone.(paragraph 0059)

13. As per claim 12, The control server of claim 11, wherein the first control server maintains the vehicle as an item in a first, and wherein, when the first control server passes the vehicle to the second zone, the second control server accepts the vehicle as an item in a second queue administered by the second control server. (paragraph 0059)

14. As per claim 13, The control server of claim 12, wherein a second traffic control module, associated with the second control server, is further operable to: establish communication with the vehicle; and determine if the vehicle has confirmed that communication has been established. (paragraph 0059)

15. As per claim 14, The control server of claim 13, wherein the second traffic control module is further operable to, if the vehicle has not confirmed that communication has been established, re-establish communication with the vehicle. (paragraph 0059)

16. As per claim 16, A non-transitory computer readable medium stored on a storage medium and having instructions that when executed by a processor cause the processor to perform a method, the instructions comprising: instructions to determine

that a vehicle in a traffic control system is leaving a first zone; instructions to determine a second zone to which a vehicle is entering; and instructions to pass the vehicle to the second zone. (paragraphs 0005 and 0059)

17. As per claim 17, The computer readable medium of claim 16, wherein the first control server maintains the vehicle as an item in a first, and wherein, when the first control server passes the vehicle to the second zone, the second control server accepts the vehicle as an item in a second queue administered by the second control server. (paragraphs 0005, 0058, and 0059)

18. As per claim 18, The computer readable medium of claim 17, further comprising: instructions to establish communication with the vehicle; and instructions to determine if the vehicle has confirmed that communication has been established. (paragraphs 0005, 0058, and 0059)

19. As per claim 19, The computer readable medium of claim 18, further comprising, if the vehicle has not confirmed that communication has been established, instructions to re-establish communication with the vehicle. (paragraphs 0005, 0058, and 0059)

Claim Rejections - 35 USC § 103

20. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

21. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

22. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103 are summarized as follows:

1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

23. Claims 8, 9, 15 and 20 are rejected under 35 U.S.C. 103 as being unpatentable over Burns US 2002/0143461 in view of Worthy US 5,572,450.

24. As per claim 8, The method of claim 7, wherein the extents are associated with a range of an antennae associated with the zone and in communication with the vehicle. (Worthy Col 3 lines 17 – 26)

Burns discloses a permission system and method for controlling interaction between autonomous vehicles in mining operation. Burns does not disclose the range of an antenna as it affects the transition between zones. Worthy teaches of the antenna strength of a roadside sensors affects the detention of vehicles along a roadside.

Therefore, at the time of filing it would have been obvious to one of ordinary skill in the art to incorporate the teachings of Worthy et.al. into the invention of Burns. Such incorporation is motivated by the need ensuring accurate control and detection of a vehicle within a respective zone.

25. As per claim 9, The method of claim 7, wherein the extents are defined by two or more physical locations along a roadway. (Worthy Col 1 lines 22 – 35)

26. As per claim 15, The control server of claim 14, wherein each zone is defined by an extents, wherein the extents are defined by one of a range of an antennae associated with the zone and in communication with the vehicle or by two or more physical locations along a roadway. (Worthy Col 1 lines 22 – 35 and Col 3 lines 17 – 26)

27. As per claim 20, The computer readable medium of claim 19, wherein each zone is defined by an extents, wherein the extents are defined by one of a range of an antennae associated with the zone and in communication with the vehicle or by two or more physical locations along a roadway. (Worthy Col 1 lines 22 – 35 and Col 3 lines 17 – 26)

Examiner Request

The examiner requests, in response to this office action, support must be shown for language added to any original claims on amendment and any new claims. That is, indicate support for newly added claim language by specifically pointing to page(s) and line number(s) in the specification and/or drawing figure(s). This will assist the examiner in prosecuting the application. When responding to this office action, applicant is advised to clearly point out the patentable novelty which he or she thinks the claims

present, in view of the state of art disclosed by the references cited or the objections made. He or she must also show how the amendments avoid such references or objections. In amending in reply to a rejection of claims in an application or patent under reexamination, the applicant or patent owner must clearly point out the patentable novelty which he or she thinks the claims present in view the state of the art disclosed by the references cited or the objections made. The applicant or patent owner must also show how the amendments avoid such references or objections.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TYLER PAIGE whose telephone number is (571)270-5425. The examiner can normally be reached on 7:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Black can be reached on 571-272-6956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/T. P./
Examiner, Art Unit 3661

/Thomas G Black/

Supervisory Patent Examiner, Art Unit 3661

Notice of References Cited	Application/Control No. 14/253,836	Applicant(s)/Patent Under Reexamination RICCI ET AL.	
	Examiner TYLER PAIGE	Art Unit 3661	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2002/0143461 A1	10-2002	Burns et al.	701/117
*	B	US-6,617,981 B2	09-2003	Basinger, John	340/909
*	C	US-6,892,131 B2	05-2005	Coffee et al.	701/482
*	D	US-2005/0122235 A1	06-2005	Teffer et al.	340/937
*	E	US-2005/0197748 A1	09-2005	Holst et al.	701/003
*	F	US-2006/0287807 A1	12-2006	Teffer, Dean W.	701/117
*	G	US-2007/0194944 A1	08-2007	Galera et al.	340/686.6
*	H	US-2008/0169940 A1	07-2008	Lee et al.	340/928
*	I	US-2010/0145987 A1	06-2010	Harper et al.	707/770
*	J	US-2010/0174474 A1	07-2010	Nagase, Kenji	701/118
*	K	US-2010/0211300 A1	08-2010	Jaffe et al.	701/119
*	L	US-7,969,324 B2	06-2011	Chevion et al.	340/901
*	M	US-2011/0246210 A1	10-2011	MATSUR, IGOR YURIEVICH	705/1.1

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	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.

Notice of References Cited	Application/Control No. 14/253,836	Applicant(s)/Patent Under Reexamination RICCI ET AL.	
	Examiner TYLER PAIGE	Art Unit 3661	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2012/0327231 A1	12-2012	Cochran et al.	348/148
*	B	US-2013/0116915 A1	05-2013	Ferreira et al.	701/117
*	C	US-2013/0212065 A1	08-2013	Rahnama, Hossein	707/609
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	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).)
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,706	04/15/2014	Christopher P. Ricci	6583-550	7498

111285 7590 01/29/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
01/29/2015	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):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,706	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) Status Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *4/15/2014*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-6,11-14 and 16-19* is/are rejected.

8)☒ Claim(s) *7-10,15 and 20* is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *4/15/2014* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

Claim Rejections - 35 USC § 102

2. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(2) the claimed invention was described in a patent issued under section 151, or in an application for patent published or deemed published under section 122(b), in which the patent or application, as the case may be, names another inventor and was effectively filed before the effective filing date of the claimed invention.

4. Claims 1 – 4, 11 – 12 and 16 - 17 are rejected under 35 U.S.C. 102(a)(2) as being anticipated by Wang et al., (20130261966).

5. (Claims 1, 11 and 16): Wang discloses a method and system for providing navigation information for a conveyance comprising: a vehicle control system, including a processor, receiving route information for two or more routes (fig. 1); the vehicle control system determining the context associated with route information (figs. 2 and 6); the vehicle control system storing the route information and the context (fig. 2, blk 36); the vehicle control system identifying a pattern associated with the route information

and context (abstract; fig. 6, blk 104); and the vehicle control system providing pattern information to plan a next route (fig. 3; [0038]).

6. (Claims 2 - 4, 12 and 17): Wang discloses the system of claims 1, 11 and 16, wherein the route information includes at least an origin location and a destination (abstract), wherein at least one route was generated by a navigation system, and wherein the context includes information indicating a reason why a driver followed the route ([0003]; [0054, claim 4]).

Claim Rejections - 35 USC § 103

7. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

8. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 5, 13 and 18 are rejected under 35 U.S.C. 103 as being unpatentable over Wang et al., (20130261966) as applied to claims 1, 11 and 16 above, and further in view of Phelan et al., (20040225557).

10. (Claims 5, 13 and 18): Wang discloses the system of claims 1, 11 and 18. Wang does not teach two or more drivers in two or more vehicles. However, in a related invention, Phelan teaches multiple drivers in multiple vehicles providing route information for storing in a database (fig. 26; [0047]). It would have been obvious to one of ordinary skill in the art, before the effective filing date of the invention, to modify Wang to handle situations with multiple drivers using multiple vehicles, thus making his invention useful in common situations like fleet management applications.

11. Claims 6, 14 and 19 are rejected under 35 U.S.C. 103 as being unpatentable over Wang et al., (20130261966) as applied to claims 1, 11 and 16 above, and further in view of Phelan et al., (20040225557), and in further view of Lee et al., (7864073).

12. (Claims 6, 14 and 19): Wang discloses the system of claims 1, 11 and 18, while Phelan teaches the system of claims 5, 13 and 18. Wang and Phelan do not teach multiple destinations arrived at in various time periods. However, in a related invention Lee teaches an apparatus and method of providing schedule and route, wherein the pattern information includes one or more of destinations arrived at, at certain time periods, routes driven on certain days, or often-traveled routes (figs. 6 – 7). It would have been obvious to one of ordinary skill in the art, before the effective filing date of the invention, to modify Wang to handle situations with multiple drivers using multiple vehicles involving specific time schedules, thus making his invention useful in common situations like fleet management applications.

Allowable Subject Matter

13. Claims 7 – 10, 15 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to form 892 for cited references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX C. DUNN whose telephone number is (571)270-5323. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Tarcza can be reached on 26979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ALEX C. DUNN
Examiner, Art Unit 3663

/THOMAS TARCZA/

Supervisory Patent Examiner, Art Unit 3663

Notice of References Cited	Application/Control No. 14/253,706	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,204,817 A	04-1993	Yoshida, Motomasa	701/411
*	B	US-2004/0225557 A1	11-2004	Phelan et al.	705/011
*	C	US-7,047,129 B2	05-2006	Uotani, Kazushi	701/414
*	D	US-7,233,861 B2	06-2007	Van Buer et al.	701/424
*	E	US-2010/0125405 A1	05-2010	Chae et al.	701/200
*	F	US-7,873,471 B2	01-2011	Gieseke, Arnold	701/416
*	G	US-7,864,073 B2	01-2011	Lee et al.	340/988
*	H	US-2011/0313653 A1	12-2011	Lindner, Jeffery Erhard	701/201
*	I	US-8,509,982 B2	08-2013	Montemerlo et al.	701/26
*	J	US-2013/0261966 A1	10-2013	Wang et al.	701/533
*	K	US-2013/0304371 A1	11-2013	Kitatani et al.	701/408
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	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.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,729	04/15/2014	Christopher P. Ricci	6583-555	8377

111285 7590 03/06/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
03/06/2015	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):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,729	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) Status Yes

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

Period for Reply

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- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *2/19/2015*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

Response to Arguments

2. Applicant's arguments, see pages 5 and 7, filed 2/19/2015, with respect to the rejection(s) of claim(s) 1, 11 and 16 under 35 USC 102 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of applicant's amendments.

Claim Rejections - 35 USC § 103

3. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

4. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1 – 8, 11 – 14 and 16 – 19 are rejected under 35 U.S.C. 103 as being unpatentable over Link II et al., (20130116882) and further in view of Seltzer et al., (20090210143).

6. (Claims 1, 11 and 16): Link discloses a method for providing navigation information for a conveyance, comprising: a vehicle control system, including a processor, determining an origin location (figs. 1 and 9; [0024]); the vehicle control system determining two or more destination locations ([0057]); the vehicle control system determining a timeframe for the route (fig. 3; [0062]); and the vehicle control system generating a best route to the two or more destinations in the timeframe (fig. 10; [0062]; [0096 – 0097]). Link does not teach determining multiple locations based on information in a user profile. However, in a related invention Seltzer teaches wherein the two or more destination locations are determined based on information stored in a user profile (fig. 7; [0005 - 0007]; [0063 – 0066]). It would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to modify Link to use data stored in user profiles to analyze and determine destinations, as a very common requirement in today's navigation systems.

7. (Claims 2 – 4, 12 and 17): Link and Seltzer teach the methods of claims 1, 11 and 16. Link further teaches a method for providing navigation information for a conveyance, wherein the timeframe is an amount of time available to a user to travel the route, wherein the best route includes a return to the origin location, and wherein the user provide the amount of time available (fig. 3; [0062]; [0096 – 0097]).

8. (Claims 5 – 6, 13 and 18): Link and Seltzer teach the methods of claims 1, 11 and 16. Link further teaches a method for providing navigation information for a conveyance, wherein the route suggestion module accesses preference data in a user

profile to determine preferred routes, wherein the best route is a preferred route (fig. 3; [0052]; [0055 - 0056]).

9. (Claims 7 – 8, 14 and 19): Link and Seltzer teach the methods of claims 1, 11 and 16. Seltzer further teaches wherein the user profile includes a first location that should be avoided, and wherein the best route avoids the first location ([0003]; [0027]; [0063]).

10. **Claims 9 – 10, 15 and 20 are rejected under 35 U.S.C. 103 as being unpatentable over Link II, et al., (20130116882) and further in view of Seltzer et al., (20090210143) as applied to claims 1, 11 and 16 above, and in further view of Sumizawa (20110077855).**

11. (Claims 9 – 10, 15 and 20): Link and Seltzer teach the methods of claims 1, 11 and 16. Link and Seltzer do not explicitly teach a first location being an area between the original location and a destination. However, in a related invention Sumizawa teaches a navigation system, wherein the first location is an area between the origin location and at least one destination (abstract; figs. 3 - 4; [0066]). (Note: The feature of an address in a user profile is taught in Link's fig. 3). It would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to modify Link to use an area instead of a single location, as a very desirable feature in modern navigation systems.

Conclusion

12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX C. DUNN whose telephone number is (571)270-5323. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Tarcza can be reached on 26979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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ALEX C. DUNN
Examiner, Art Unit 3663

/THOMAS TARCZA/
Supervisory Patent Examiner, Art Unit 3663

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,204	04/15/2014	Christopher P. Ricci	6583-561	7690

111285 7590 01/26/2015

Sheridan Ross P.C.
1560 Broadway
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Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
01/26/2015	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):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,204	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) Status Yes

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Status

1)☒ Responsive to communication(s) filed on *4/15/2014*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-7,9,11-17,19 and 20* is/are rejected.

8)☒ Claim(s) *8,10 and 18* is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *4/15/2014* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

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3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

Claim Rejections - 35 USC § 102

2. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(2) the claimed invention was described in a patent issued under section 151, or in an application for patent published or deemed published under section 122(b), in which the patent or application, as the case may be, names another inventor and was effectively filed before the effective filing date of the claimed invention.

4. Claims 1 – 20 are rejected under 35 U.S.C. 102(a)(2) as being anticipated by Lovitt et al., (20140028542).

5. (Claims 1 - 6, 11 - 15, 19 and 20): Lovitt discloses a method and system, comprising: determining a location inside a vehicle associated with a user (fig. 4; [0005 - 0006]); determining at least one vehicle control associated with the location inside the vehicle ([0010]); referring to a user profile memory associated with the user for vehicle control settings (abstract; figs. 1 and 5); and determining, based at least partially on the

vehicle control settings, to adjust the at least one vehicle control associated with the location inside the vehicle ([0019 - 0021]; [0027 - 0029]).

6. (Claims 7 and 16): Lovitt discloses a method and system, wherein determining the presence of the user inside the vehicle further comprises: detecting a person via at least one image sensor associated with the vehicle (fig. 1); identifying facial features associated with the person detected via the at least one image sensor ([0005 - 0007]); and determining whether the identified facial features associated with the person match user characteristics stored in a memory ([0025]).

7. (Claims 9 and 17): Lovitt discloses a method and system further comprising: determining that the user made a change to the adjusted at least one vehicle control ([0030]); and storing the change made to the adjusted at least one vehicle control in the user profile memory ([0027 - 0028]).

Allowable Subject Matter

8. Claims 8, 10 and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to form 892 for cited references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX C. DUNN whose telephone number is (571)270-5323. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Tarcza can be reached on 26979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ALEX C. DUNN
Examiner, Art Unit 3663

/THOMAS TARCZA/

Supervisory Patent Examiner, Art Unit 3663

Notice of References Cited	Application/Control No. 14/253,204	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2002/0077985 A1	06-2002	Kobata et al.	705/51
*	B	US-2002/0126876 A1	09-2002	Paul et al.	382/104
*	C	US-2004/0225557 A1	11-2004	Phelan et al.	705/011
*	D	US-2009/0284359 A1	11-2009	Huang et al.	340/426.1
*	E	US-2010/0106418 A1	04-2010	Kindo et al.	701/300
*	F	US-2010/0304640 A1	12-2010	Sofman et al.	446/456
*	G	US-2011/0040438 A1	02-2011	Kluge et al.	701/29
*	H	US-2011/0309926 A1	12-2011	Eikelenberg et al.	340/439
*	I	US-2012/0059789 A1	03-2012	Sakai et al.	706/52
*	J	US-2014/0028542 A1	01-2014	Lovitt et al.	345/156
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	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
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	Q					
	R					
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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.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,034	04/15/2014	Christopher P. Ricci	6583-566	6457

111285 7590 01/26/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
TECKLU, ISAAC TUKU

ART UNIT	PAPER NUMBER
2198	

NOTIFICATION DATE	DELIVERY MODE
01/26/2015	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):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,034	Applicant(s) RICCI ET AL.	
	Examiner ISAAC T. TECKLU	Art Unit 2198	AIA (First Inventor to File) Status Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *04/15/2014*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date *11/26/2014*.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

DETAILED ACTION

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Examiner Notes

Examiner cites particular columns, paragraphs, figures and line numbers from the references as applied to the claims below for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested that, in preparing responses, the applicant fully consider the references in their entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the examiner.

Claim Interpretation

After careful review of the original specification, the Examiner is unable to locate any lexicographic definitions with the required clarity, deliberateness, and precision. See MPEP §2111.01 IV.

The Examiner finds that because the Examined Claims recite neither "step for" nor "means for," the examined claims fail Prong (A) as set forth in MPEP §2181 I. Because all examined claims fail Prong (A) as set forth in MPEP §2181 I., the Examiner concludes that all examined claims do not invoke 35 U.S.C. §112, 6th paragraph. See also Ex parte Miyazaki, 89 USPQ2d 1207, 1215-16 (B.P.A.I. 2008)(precedential).

Terms such as "when", "if", "only if", "on the condition", "or", "in the event" and "in a case where" are representative of optional limitations; therefore, optional or conditional language do not narrow the claims because they can always be omitted.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-10 are rejected under 35 U.S.C 101 because the claimed invention is directed to non-statutory subject matter.

With respect to claim 1, the claim is directed to a system. However, as recited, the system is reasonably interpreted as entirely software, which amounts to descriptive material per se. The system is not supported by hardware such as tangible computer storage or execution engine, which would enable one skill in the art to construe that the system, is built from tangible product to carry out any functionality being conveyed from the claim. Thus, the system is software *per se* and therefore is not being tangibly embodied in a manner as to be executable. See MPEP § 2106.01.

Claims 2-10 are rejected for failing to cure the deficiencies of the above rejected non-statutory base claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the

claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

It has been noted that, a claimed invention is unpatentable if the differences between it and the prior art are "such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art." 35 U.S.C. § 103(a) (2000); *KSR Int'l v. Teleflex Inc.,* 127 S.Ct. 1727, 1734 (2007); *Graham v. John Deere Co.,* 383 U.S. 1, 13-14 (1966).

In *Graham,* the Court held that that the obviousness analysis is bottomed on several basic factual inquiries: "[(1)] the scope and content of the prior art are to be determined; [(2)] differences between the prior art and the claims at issue are to be ascertained; and [(3)] the level of ordinary skill in the pertinent art resolved." 383 U.S. at 17. *See also KSR,* 127 S.Ct. at 1734. "The combination of familiar elements according to known methods is likely to be obvious when it does no more; than yield predictable results." *KSR,* at 1739.

"When a work is available in one field of endeavor, design incentives and other market forces can prompt variations of it, either in the same field or in a different one. If a person of ordinary skill in the art can implement a predictable variation, § 103 likely bars its patentability." *Id.* at 1740.

"For the same reason, if a technique has been used to improve one device, and a person of ordinary skill in the art would recognize that it would improve similar devices in the same way, using the technique is obvious unless its actual application is beyond his or her skill." *Id.*

"Under the correct analysis, any need or problem known in the field of endeavor at the time of invention and addressed by the patent can provide a reason for combining the elements in the manner claimed." *Id.* t 1742.

Claims 1-20 are rejected under 35 U.S.C. 103 as being unpatentable over Rao et al. (US 2013/0139140 A1) in view of Throop et al. (US 2013/0031540 A1) / ZELLEN (US 2014/0245278 A1).

As per claim 1, Rao discloses a system for updating one or more of software and firmware in a vehicle comprising (see for example Fig. 2, 219):

a status module adapted to determine the availability of an update to the one or more of software and firmware (see for example [0054] and Fig. 2, 204); and

a message module adapted to query one or more other vehicles to determine if they have the update (see for example [0034]-[0035]); and

a vehicle firmware/software system adapted to download all or a portion of the update from the one or more other vehicles (see for example [0008] and [0052]).

Rao does not explicitly disclose updating of a firmware. Nevertheless, as evidenced by the teaching of Throop /ZELLEN, it is commonly known to update a firmware of a device (see for example Throop [0003]; see for example [0004]). Thus, it is respectfully submitted that it would have been obvious to one skilled in the art before the filing of the claimed invention to modify the teachings of Rao by including firmware in order to dynamically update both software and firmware

especially when the firmware experience a high level of wear with frequent and voluminous updates as once suggested by Throop/ZELLEN.

As per claim 2, the above combined references disclose the system of claim 1, wherein the update is partially downloaded from a plurality of the one or more other vehicles (see for example [0008] and [0052]).

As per claim 3, the above combined references disclose the system of claim 1, wherein the update is partially updated from a central repository (see for example ZELLEN: FIG. 1, 18 and 24).

As per claim 4, the above combined references disclose the system of claim 1, wherein the update is downloaded based on one or more rules or preferences (see for example Fig. 2, 204).

As per claim 5, the above combined references disclose the system of claim 1, wherein the update is downloaded based on a projected proximity to the one or more other vehicles (see for example [0037]; Throop: [0005]).

As per claim 6, the above combined references disclose the system of claim 1, wherein the update is downloaded directly from the one or more other vehicles (see for example [0008] and [0052]).

As per claim 7, the above combined references disclose the system of claim 1, wherein the update is sharable with one or more additional vehicles (see for example [0008] and [0052]).

As per claim 8, the above combined references disclose the system of claim 1, wherein a diagnostics module confirms the integrity of the update (see for example [0042]).

As per claim 9, the above combined references disclose the system of claim 1, wherein the message module broadcasts the availability of the update to one or more additional vehicles (see for example [0034]-[0035]).

As per claim 10, the above combined references disclose the system of claim 1, wherein the message module confirms the update is correct for the vehicle (see for example [0057] and Fig. 2, 204).

Per claims 11-20, these are method claims substantially paralleling the limitations in system claims 1-10. The above combined references disclose the use of such media (see, e.g., Fig. 1, 10) in implementing the prescribed steps, and all other limitations have been addressed as set forth above.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ISAAC TECKLU whose telephone number is (571)272-7957. The examiner can normally be reached on M-F 9:00A - 5:00P.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ISAAC T. TECKLU/

Primary Examiner, Art Unit 2198

Notice of References Cited	Application/Control No. 14/253,034	Applicant(s)/Patent Under Reexamination RICCI ET AL.	
	Examiner ISAAC T. TECKLU	Art Unit 2198	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2005/0097541 A1	05-2005	Holland, Steven W.	717/168
*	B	US-2006/0130033 A1	06-2006	Stoffels et al.	717/166
*	C	US-7,346,435 B2	03-2008	Amendola et al.	701/1
*	D	US-2009/0119657 A1	05-2009	Link, II, Charles M.	717/171
*	E	US-2011/0093846 A1	04-2011	Moinzadeh et al.	717/178
*	F	US-2011/0197187 A1	08-2011	ROH, Seung Hyun	717/173
*	G	US-2011/0247013 A1	10-2011	FELLER et al.	719/320
*	H	US-2011/0320089 A1	12-2011	Lewis, Derek Lane	701/32
*	I	US-2012/0030512 A1	02-2012	Wadhwa et al.	714/23
*	J	US-2012/0204166 A1	08-2012	Ichihara, Masaaki	717/168
*	K	US-2013/0031540 A1	01-2013	Throop et al.	717/173
*	L	US-2013/0139140 A1	05-2013	Rao et al.	717/170
*	M	US-2014/0109075 A1	04-2014	Hoffman et al.	717/169

FOREIGN PATENT DOCUMENTS

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Notice of References Cited	Application/Control No. 14/253,034	Applicant(s)/Patent Under Reexamination RICCI ET AL.	
	Examiner ISAAC T. TECKLU	Art Unit 2198	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2014/0245278 A1	08-2014	ZELLEN, JEFFREY M.	717/170
*	B	US-2014/0245284 A1	08-2014	Alrabady et al.	717/173
*	C	US-2014/0282470 A1	09-2014	Buga et al.	717/170
*	D	US-2015/0007155 A1	01-2015	Hoffman et al.	717/168
	E	US-			
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NOTICE OF ALLOWANCE AND FEE(S) DUE

111285 7590 03/05/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

DATE MAILED: 03/05/2015

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,405	04/15/2014	Christopher P. Ricci	6583-567	8768

TITLE OF INVENTION: Synchronization Between Vehicle and User Device Calendar

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	06/05/2015

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 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity 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 and an extra copy of the form should be submitted. 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: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

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111285 7590 03/05/2015
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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 facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,405	04/15/2014	Christopher P. Ricci	6583-567	8768

TITLE OF INVENTION: Synchronization Between Vehicle and User Device Calendar

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	06/05/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
DUNN, ALEX C	3663	701-036000

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- ❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

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

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

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. 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. The following fee(s) are submitted:
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- ❑ Publication Fee (No small entity discount permitted)
- ❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ❑ A check is enclosed.
- ❑ Payment by credit card. Form PTO-2038 is attached.
- ❑ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ❑ Applicant certifying micro entity status. See 37 CFR 1.29 — NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ❑ Applicant asserting small entity status. See 37 CFR 1.27 — NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ❑ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

Page 698 of 907 Ford Ex. 1002

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,405	04/15/2014	Christopher P. Ricci	6583-567	8768

111285 7590 03/05/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER	
DUNN, ALEX C	

ART UNIT	PAPER NUMBER
3663	

DATE MAILED: 03/05/2015

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 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, 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); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

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

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

Notice of Allowability	Application No. 14/253,405	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) 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 *2/18/2015*.
   ☐ 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 *1-20*. 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 _____.

/A. C. D./ Examiner, Art Unit 3663	/THOMAS TARCZA/ Supervisory Patent Examiner, Art Unit 3663

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/252,876	04/15/2014	Christopher P. Ricci	6583-568	6268

111285 7590 01/30/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
01/30/2015	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):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/252,876	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) Status Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *4/15/2014*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *4/15/2014* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

Claim Rejections - 35 USC § 102

2. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

4. Claims 1 – 8 and 11 – 18 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Rector et al., (20110137520).

5. (Claims 1 - 3 and 11 - 13): Rector discloses a parental control system for a vehicle comprising: a parental control module ([0031]) adapted to limit one or more vehicle functions based on one or more rules (fig. 3; [0009]; [0025]) and a profile module adapted to interact with the parental control module to limit the one or more vehicle functions based on whether the profile is associated with a driver or a passenger ([0049 - 0050]).

6. (Claims 4 and 14): Rector discloses a parental control system of claims 1 and 11, wherein communications are established with one or more remote devices (fig. 1; [0026]; [0030]).

7. (Claims 5 - 7 and 15 - 17): Rector discloses a parental control system of claims 1 and 11, wherein one or more rules based functions are enabled or disabled, wherein the one or more rules based functions include at least one vehicle operational function (fig. 4; [0008]; [0023 - 0024]; [0057]).

8. (Claims 8 and 18): Rector discloses a parental control system of claims 1 and 11, wherein the parental control module is activated based on one or more of a facial recognition and a profile associated with the vehicle ([0059]).

Claim Rejections - 35 USC § 103

9. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

10. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

11. Claims 9 and 19 are rejected under 35 U.S.C. 103 as being unpatentable over Rector et al., (20110137520) as applied to claims 1 and 11 above, and further in view of Lovitt et al., (20140028542). (Note: Lovitt is a 102(a)(2) reference).

12. (Claims 9 and 19): Rector discloses a parental control system of claims 1 and 11. Rector does not teach real-time video or audio communications between the vehicle and a device. However, in a related invention, Lovitt teaches a system, wherein real-time audio or video communications are established between the vehicle and a communications device or a computing device (fig. 1; [0021]; [0059]; [0072]). It would have been obvious to one of ordinary skill in the art, before the effective filing date of the claimed invention to modify Rector to incorporate audio or video outputs to communicate with vehicle occupants, as a common offering in today's interactive vehicles.

13. Claims 10 and 20 are rejected under 35 U.S.C. 103 as being unpatentable over Rector et al., (20110137520) as applied to claims 1 and 11 above, and further in view of White et al., (20100152976).

14. (Claims 10 and 20): Rector discloses a parental control system of claims 1 and 11. Rector does not teach using a breathalyzer to limit vehicle functions. However, in a related invention White teaches a system, wherein the one or more vehicle functions are limited based on a determined context of one or more of the vehicle and one or more passengers, and wherein information from a local or remote breathalyzer is used as input to determine whether to limit the one or more vehicle functions ([01116]). It would have been obvious to one of ordinary skill in the art, before the effective filing

date of the claimed invention to modify Rector to incorporate a breathalyzer input in his invention, as a common offering in today's interactive vehicles.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to form 892 for cited references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX C. DUNN whose telephone number is (571)270-5323. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Tarcza can be reached on 26979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ALEX C. DUNN
Examiner, Art Unit 3663

/THOMAS TARCZA/

Supervisory Patent Examiner, Art Unit 3663

Notice of References Cited	Application/Control No. 14/252,876	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2002/0077985 A1	06-2002	Kobata et al.	705/51
*	B	US-2004/0039504 A1	02-2004	Coffee et al.	701/35
*	C	US-2005/0038598 A1	02-2005	Oesterling et al.	701/207
*	D	US-2005/0159853 A1	07-2005	Takahashi et al.	701/001
*	E	US-2007/0135995 A1	06-2007	Kikuchi et al.	701/209
*	F	US-2008/0255721 A1	10-2008	Yamada, Mitsuo	701/33
*	G	US-2009/0299572 A1	12-2009	Fujikawa et al.	701/36
*	H	US-2010/0023204 A1	01-2010	Basir et al.	701/33
*	I	US-2010/0125405 A1	05-2010	Chae et al.	701/200
*	J	US-2010/0152976 A1	06-2010	White et al.	701/48
*	K	US-2011/0090078 A1	04-2011	Kim et al.	340/522
*	L	US-2011/0112717 A1	05-2011	Resner, Benjamin	701/33
*	M	US-2011/0137520 A1	06-2011	Rector et al.	701/36

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	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.

Notice of References Cited	Application/Control No. 14/252,876	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2012/0197523 A1	08-2012	Kirsch, David M.	701/426
*	B	US-2012/0254804 A1	10-2012	Sheha et al.	715/834
*	C	US-2014/0028542 A1	01-2014	Lovitt et al.	345/156
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	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.

UNITED STATES PATENT AND TRADEMARK OFFICE

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.
14/253,334	04/15/2014	Christopher P. Ricci	6583-586	4129

111285 7590 01/27/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
RABOVIANSKI, JIVKA A

ART UNIT	PAPER NUMBER
2426	

NOTIFICATION DATE	DELIVERY MODE
01/27/2015	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):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,334	Applicant(s) RICCI ET AL.	
	Examiner JIVKA RABOVIANSKI	Art Unit 2426	AIA (First Inventor to File) Status Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *04/15/2014*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-22* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-22* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *04/15/2014* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

Claim Objections

2. Claims 18 – 22 are objected to because of the following informalities: Claims depend on claim 17, but cite different preamble than claim 17: "computer readable medium". Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of 35 U.S.C. 112(b):

> (b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1, 5, 11, 12, 13, 17, 18 and 19 are rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention. Claim 1 cites: "selected content", "the media controller subsystem", "the distributed network control server", "the media server" and "the computation device". It is not clear from the claim what the references of these citations are. Claim 5 cites: "the filtered and/or permitted media".

Claim 11 cites: "the vehicle occupant requesting media content", "the requested media content" and "the filtered and/or permitted media". Claim 12 cites: "the media processing board". Claim 13 cites: "source of the content". Claim 17 cites: "the vehicle occupant requesting media content", "the requested media content" and "the filtered and/or permitted media". Claim 18 cites: "the media processing board". Claim 19 cites: "source of the content". It is not clear from the claim what the references of these citations are.

5. Claims 1, 5, 11, 12, 13, 17, 18 and 19 recites the limitation "the media controller subsystem", "the distributed network control server", "the media server", "the computation device", "the filtered and/or permitted media", "the vehicle occupant requesting media content", "the requested media content", "the media processing board" and "source of the content". There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(2) the claimed invention was described in a patent issued under section 151, or in an application for patent published or deemed published under section 122(b), in which the patent or application, as the case may be, names another

inventor and was effectively filed before the effective filing date of the claimed invention.

7. Claims 1 - 4 are rejected under 35 U.S.C. 102(a)(2) as being anticipated by Kim (USPPGPubN 20130055096, referred to as Kim).

Regarding claim 1:

Kim anticipates a microprocessor executable distributed network control server operable to access selected content on a public network external to a vehicle comprising the media controller subsystem, the distributed network control server having at least one of an assigned Internet Protocol address and global unicast address (Kim, the content provided by the server external from the vehicle wherein IP addresses are assigned to the mobile terminal in the vehicle; a wireless local area network (WLAN), Wi-Fi, wireless broadband (WiBro); [0055], [0069], [0093], [0126], [0170], Fig. 3);

Kim anticipates a microprocessor executable media server operable to receive requests for content from a vehicle occupant and provide requested content to a portable computational device associated with the vehicle occupant, the media server having a contactable electronic address on a local area network maintained by the vehicle (Kim, Figs. 4 and 6; navigation session receives position information of the peripheral vehicle from the terminal mounted to the peripheral vehicle, and receives position information from the mobile terminal held by the passerby, [0115]);

Kim anticipates microprocessor readable memory to store content (Kim, Fig. 1/item 160, [0092]); and

Kim anticipates a microprocessor executable virtual network console operable to provide the computational device with remote access to the media server (Kim, Fig. 3).

Regarding claim 2:

Kim anticipates The media controller subsystem of claim 15, wherein the distributed network control server, media server, and virtual network console are on a common media processing board mounted on the vehicle and wherein the portable computational device is discrete from, remote from, and in wireless communication with the media processing board (Kim, the mobile terminal 100 and the image display apparatus 200 mounted in a vehicle are connected to each other in a wireless manner such that they can perform data communication, [0145]).

Regarding claim 3:

Kim anticipates the media controller subsystem of claim 16, wherein the virtual network console operates in accordance with the Remote Frame Buffer protocol on top of the TCP/IP suite of protocols, thereby causing the remote computational device to appear to a computer mounted in the vehicle as if the remote computational device is part of the on board vehicle control system comprising the computer (Kim, virtual network computing

(VNC) manner using a remote frame buffer (RFB) protocol, [0057], IP protocol, [0170], Figs. 1 and 3).

Regarding claim 4:

Kim anticipates media controller of claim 17, wherein the vehicle occupant, through the remote computational device, can control one or more of the following media presentation features of a screen and sound system mounted on the vehicle: volume, contrast, resolution, and channel selection (Kim, providing a user interface by which the user can control the image display apparatus 200 mounted in a vehicle according to the screen information: contrast and resolution, [0107], [0140]; controlling the tuner for receiving channels, [0109], voice control, [0086], [0101]).

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 5 - 22 are rejected under 35 U.S.C. 103 as being unpatentable over Kim (USPPGPubN 20130055096, referred to as Kim), and further in view of Hulet (USPPN 8613385, referred to as Hulet).

Regarding claims 5, 11 and 17:

Kim teaches determining, by a microprocessor executable media server, at least one of an identity of a vehicle occupant requesting media content, an identity of a portable computational device associated with the vehicle occupant, and a spatial location of the vehicle occupant and/or remote computational device (Kim, the device are identified to be set for communication as shown in Fig. 5, [0144]; navigation session receives position information of the peripheral vehicle from the terminal mounted to the peripheral vehicle, and receives position information from the mobile terminal held by the passerby, [0115]);

Kim does not specifically teach based on the at least one of the identity of the vehicle occupant requesting media content, the identity of a portable computational device associated with the vehicle occupant, and the spatial location of the vehicle occupant and/or remote computational device, applying, by the microprocessor executable media server, at least one of a filter and restriction to the requested media content to form filtered and/or permitted media content to be provided to the portable computational device. However, Hulet teaches personal information is exchanged to allow the media player to determine what content is permitted to be accessed, C 25: L 33 – 43. It would have been obvious to one of ordinary skill in the art

at the time the invention was made to incorporate Hulet with the teaching of allow permitted media to be distributed into the invention of Kim for the purpose of preventing unappropriated media to be watched by people.

Kim in view of Hulet teaches providing, by a microprocessor executable media server, the filtered and/or permitted media content to the portable computational device (Hulet, granting permission and providing the content to the media player 302, Fig. 3, C 13: L 11 – 35, C 25: L 33 – 43).

Regarding claims 6, 12 and 18:

Kim in view of Hulet teaches the portable computational device is discrete from, remote from, and in wireless communication with the media processing board, wherein the at least one of a filter and restriction is applied to a media request of the vehicle occupant before the requested media content is accessed and wherein the at least one of a filter and restriction is one or more of an age-related content filter and/or restriction, a vehicle occupant seating location filter and/or restriction, and a privacy filter and/or restriction (Hulet, permissions for content can be inherited based on the location class structure, for example, the parent class location of "vehicle type" may have an associated "aircraft" value that permits access to some content on the media player 302. A class location of "coach" for the compartment type can inherit permissions from its aircraft parent and also

grant permission to additional content on the media player 302, based on the siting location, Fig. 3, C 13: L 11 – 35).

Regarding claims 7, 13 and 19:

Kim in view of Hulet teaches the at least one of a filter and restriction bans a type of content requested, bans a source of the content, redirects the request to a different source of the content, and/or limits the vehicle occupant to content from an approved source (Hulet, the media player is used in a number of different locations, and with different content permissions based on location-dependent information, C 9: L 47 – 50, the restriction depends on the type of the content, C 13: L 11 – 53).

Regarding claims 8, 14 and 20:

Kim in view of Hulet teaches the portable computational device is discrete from, remote from, and in wireless communication with the media processing board, wherein the at least one of a filter and restriction is applied after the requested media content is accessed and wherein the at least one of a filter and restriction is one or more of an age-related content filter and/or restriction, a vehicle occupant seating location filter and/or restriction, and a privacy filter and/or restriction (Hulet, based on the siting location, Fig. 3, C 13: L 11 – 35; content restrictions or permissions may be inherited from a parent location type, Fig. 3, C 13: L 11 – 35).

Regarding claims 9, 15 and 21:

Kim in view of Hulet teaches a menu displayed to each occupant enables access to media content and wherein the at least one of a filter and restriction determines a content and/or configuration of the menu presented to each occupant (Hulet, determine which content, applications, information and functions should be displayed in a menu and/or user interface, C 13: L 45 – 56).

Regarding claims 10, 16 and 22:

Kim teaches application of the at least one of a filter and restriction is based on an electronic address of the portable computational device on a network of the vehicle (Hulet, the user executes application using e-mail, [0051]).

Contact

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jivka Rabovianski whose telephone number is (571) 270-1845. The examiner can normally be reached on M-F 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, NASSER GOODARZI can be reached on (571)272-4195. Customer Service can be reached at (571) 272-2600. The fax number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/JIVKA RABOVIANSKI/

Primary Examiner, Art Unit 2426

January 21, 2015

Notice of References Cited	Application/Control No. 14/253,334	Applicant(s)/Patent Under Reexamination RICCI ET AL.	
	Examiner JIVKA RABOVIANSKI	Art Unit 2426	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2013/0055096 A1	02-2013	KIM et al.	715/738
*	B	US-8,613,385 B1	12-2013	Hulet et al.	235/375
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	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.

UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

111285 7590 01/28/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

DATE MAILED: 01/28/2015

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,058	04/15/2014	Christopher P. Ricci	6583-600	4806

TITLE OF INVENTION: SHARED NAVIGATIONAL INFORMATION BETWEEN VEHICLES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	04/28/2015

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 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity 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 and an extra copy of the form should be submitted. 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: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (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)

111285 7590 01/28/2015
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

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 facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,058	04/15/2014	Christopher P. Ricci	6583-600	4806

TITLE OF INVENTION: SHARED NAVIGATIONAL INFORMATION BETWEEN VEHICLES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	04/28/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
DUNN, ALEX C	3663	701-025000

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/SB/122) attached.
- ❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

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

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

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. 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. The following fee(s) are submitted:
- ❑ Issue Fee
- ❑ Publication Fee (No small entity discount permitted)
- ❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ❑ A check is enclosed.
- ❑ Payment by credit card. Form PTO-2038 is attached.
- ❑ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ❑ Applicant certifying micro entity status. See 37 CFR 1.29 — NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ❑ Applicant asserting small entity status. See 37 CFR 1.27 — NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ❑ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

Page 725 of 907 Ford Ex. 1002

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,058	04/15/2014	Christopher P. Ricci	6583-600	4806

111285 7590 01/28/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER	
DUNN, ALEX C	

ART UNIT	PAPER NUMBER
3663	

DATE MAILED: 01/28/2015

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 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, 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); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

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

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

Notice of Allowability	Application No. 14/253,058	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) 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 *4/15/2014*.
   ☐ 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 *1-20*. 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 _____.

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance: Claims 1 – 20 are allowed for the following reasons.

3. The prior art of record fails to teach - a first vehicle adapted to one or more of broadcast and post a query for navigational assistance; a navigation subsystem adapted to analyze the query and determine if a user in a second vehicle has information related to the query for navigational assistance.

Any comments considered necessary by applicant 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

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to form 892 for cited references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX C. DUNN whose telephone number is (571)270-5323. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Tarcza can be reached on 26979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ALEX C. DUNN
Examiner, Art Unit 3663

/THOMAS TARCZA/

Supervisory Patent Examiner, Art Unit 3663

Notice of References Cited	Application/Control No. 14/253,058	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,986,575 A	11-1999	Jones et al.	340/906
*	B	US-6,148,261 A	11-2000	Obradovich et al.	701/438
*	C	US-2002/0128774 A1	09-2002	Takezaki et al.	701/211
*	D	US-2003/0060937 A1	03-2003	Shinada et al.	701/1
*	E	US-6,853,910 B1	02-2005	Oesterling et al.	701/517
*	F	US-7,096,431 B2	08-2006	Tambata et al.	715/834
*	G	US-2007/0182625 A1	08-2007	Kerai et al.	342/357.1
*	H	US-2009/0006525 A1	01-2009	Moore, Darryl Cynthia	709/202
*	I	US-2009/0234578 A1	09-2009	Newby et al.	701/207
*	J	US-7,748,021 B2	06-2010	Obradovich, Michael L.	725/105
*	K	US-2011/0301844 A1	12-2011	Aono, Hiroyuki	701/300
*	L	US-2012/0053888 A1	03-2012	Stahlin et al.	702/150
*	M	US-2013/0300554 A1	11-2013	Braden, Jude	340/441

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	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.

Notice of References Cited	Application/Control No. 14/253,058	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2014/0292545 A1	10-2014	Nemoto, Yusuke	340/988
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
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	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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*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.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,022	04/15/2014	Christopher P. Ricci	6583-602	3364

111285 7590 02/20/2015

Sheridan Ross P.C.
1560 Broadway
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EXAMINER
LANG, MICHAEL DEAN

ART UNIT	PAPER NUMBER
3667	

NOTIFICATION DATE	DELIVERY MODE
02/20/2015	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):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,022	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner Michael D. Lang	Art Unit 3667	AIA (First Inventor to File) Status Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *4/15/2014*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *4/15/2014* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date *11/25/2014*.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

Claim Rejections - 35 USC § 112

2. The following is a quotation of 35 U.S.C. 112(b):

> (b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 3 and 15 are rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention.

4. Claim 3 which depends upon claim 2 claims the heads-up display and wherein claim 2 presents an alternative where no heads-up display is present. It is unclear to examiner whether there is always a heads-up display present or not and therefore the claim is indefinite.

5. Claim 15 recites the limitation "The communication device" in line 1. There is insufficient antecedent basis for this limitation in the claim and it is unclear to the examiner what communication device is being referred to, therefore the claim is indefinite.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

7. Claims 1-9, 15-17, and 19 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Patel et al. (2013/0207794).

8. Regarding claims 1, 16, and 19: Patel discloses a method, a tangible computer readable medium, and vehicle control system, comprising:

a. displaying, by a microprocessor executable dash configuration module, in a first area, an instrument display of a vehicle in a first configuration, wherein the instrument display comprises one or more instruments that indicate a state of the vehicle (Figure 1, Paragraph 0051 and 0052);

b. determining, by a microprocessor executable traffic law module, that a second configuration of the instrument display is required in a second area, the first and second configurations being different (Paragraph 0051 and 0052);

c. determining, by the microprocessor executable dash configuration module, that the vehicle has entered, or is about to enter, the second area (Paragraph 0051 and 0052); and

d. in response, displaying, by the microprocessor executable dash configuration module, the instrument display in the second configuration (Paragraph 0051 and 0052).

9. Regarding claim 2: Patel discloses wherein the instrument display comprises at least one of a configurable dash display and a heads-up display, wherein the first configuration and the second configuration display the same vehicle state information, and wherein the second configuration of the instrument display is selected from one or more preconfigured instrument display configurations (Paragraph 0025, 0051, and 0052; configurable dash display).

10. Regarding claim 3: Patel discloses wherein the configurable dash display comprises at least one instrument not displayed by the heads-up display (Paragraph 0025, 0051, and 0052; wherein the at least one of a configurable dash display has been shown and therefore a heads-up display need not be present).

11. Regarding claim 4: Patel discloses wherein the one or more instruments include at least one of a speedometer, an odometer, a tachometer, a trip odometer, a fuel gage, a coolant temperature gage, and a battery charge meter (Paragraph 0051, Speedometer).

12. Regarding claim 5: Patel discloses wherein the second configuration includes at least one instrument not displayed by the first configuration, wherein determining that

the second configuration of the instrument display is required includes changing at least one of: a size; a scale; a unit of measure to one of metric units and non-metric units; and a language of at least one instrument displayed in the first configuration (Paragraph 0041 and 0051, unit of measure).

13. Regarding claim 6: Patel discloses wherein the first configuration includes at least one instrument not displayed by the second configuration (Paragraph 0038, engine speed).

14. Regarding claim 7: Patel discloses presenting, by a microprocessor executable alert module, an alert on at least one of an instrument display and a communication device, wherein the alert includes information about traffic rules of the second area that are different than traffic rules of the first area, and wherein the alert includes information about the differences between the first configuration and the second configuration (Paragraph 0045).

15. Regarding claim 8: Patel discloses retrieving, by the microprocessor executable traffic law module, one or more traffic laws and vehicle regulations for the second area from an external memory of the vehicle, wherein the traffic law module determines that the second configuration of the instrument display is required in the second area by interpreting the one or more traffic laws and vehicle regulations applicable in the second area (Paragraph 0052).

16. Regarding claim 9: Patel discloses determining, by the microprocessor executable traffic law module, that the vehicle is approaching the second area, wherein the microprocessor executable traffic law module determines that the vehicle is

approaching the second area after a least one of receiving one or more signals sent from a plurality of sensing elements associated with the vehicle, receiving a location of the vehicle from a vehicle navigation system, receiving the location of the vehicle from a communication device, and receiving a destination of the vehicle entered into the vehicle navigation system (Paragraph 0051); and

e. selecting, by the dash configuration module, the second configuration (Paragraph 0051).

17. Regarding claim 15: Patel discloses wherein the communication device is not within the vehicle, and wherein the communication device comprises one or more of a smart phone, a laptop, and a computer (Paragraph 0023, wherein the computing device communicates with the drive via a display and is removable from the vehicle).

18. Regarding claim 17: Claim 17 contains similar limitations as claims 8 and 9 therefore claim 17 is rejected under same grounds of rejection.

Claim Rejections - 35 USC § 103

19. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences

> between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

20. Claims 10, 11, 18, and 20 are rejected under 35 U.S.C. 103 as being unpatentable over Patel as applied to claim 1 above, and further in view of Gross et al. (2014/0244111).

21. Regarding claims 10, 11, 18, and 20: As discussed above, Patel discloses the claimed invention except receiving, by the microprocessor executable traffic law module, one or more signals sent from a plurality of sensing elements associated with the vehicle; retrieving, by the microprocessor executable traffic law module, rules that define a plurality of signal conditions corresponding to the plurality of emergency events; interpreting, by the microprocessor executable traffic law module, the one or more signals using the rules to determine that one of a plurality of emergency events has occurred; wherein the emergency event comprises the vehicle travelling too fast; and automatically displaying, by a microprocessor executable alert module, an emergency alert on the instrument display. However, Gross discloses a similar vehicle dash display and further discloses except receiving, by the microprocessor executable traffic law module, one or more signals sent from a plurality of sensing elements associated with the vehicle; retrieving, by the microprocessor executable traffic law module, rules that define a plurality of signal conditions corresponding to the plurality of emergency events; interpreting, by the microprocessor executable traffic law module, the one or more signals using the rules to determine that one of a plurality of emergency events has occurred; wherein the emergency event comprises the vehicle travelling too

fast; and automatically displaying, by a microprocessor executable alert module, an emergency alert on the instrument display (Figure 4, Paragraphs 0026-0028). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the dash display of Patel in view of the emergency alert of Gross in order to increase vehicle safety by reducing traffic accidents due to excessive speed.

22. Claim 12 is rejected under 35 U.S.C. 103 as being unpatentable over Patel as applied to claim 1 above, and further in view of Bowden et al. (2013/0345929).

23. Regarding claim 12: As discussed above, Patel discloses the claimed invention including a mobile phone device removably connected to the vehicle dashboard (Paragraph 0024) but fails to disclose determining, by the microprocessor executable traffic law module, that a second language is used in the second area; imaging, by one or more sensors of the vehicle, road signs in the second area; translating, by a microprocessor executable traffic sign translation module, the imaged road signs into the first language of the first area; and displaying the text of the translated road sign on the instrument display. However, Bowden discloses a similar mobile phone device removably connected to the vehicle dashboard and further discloses determining, by the microprocessor executable traffic law module, that a second language is used in the second area; imaging, by one or more sensors of the vehicle, road signs in the second area; translating, by a microprocessor executable traffic sign translation module, the imaged road signs into the first language of the first area; and displaying the text of the translated road sign on the instrument display (Paragraphs 0016-0020). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to

modify the dash display of Patel in view of the traffic sign translation method of Bowden in order to increase vehicle safety by reducing traffic accidents due to operator failure to abide by traffic signs.

24. Claims 13 and 14 are rejected under 35 U.S.C. 103 as being unpatentable over Patel as applied to claim 1 above, and further in view of Chow et al. (2012/0188876).

25. Regarding claim 13: As discussed above, Patel discloses the claimed invention including a mobile phone device removably connected to the vehicle dashboard (Paragraph 0024) but fails to disclose determining, by a microprocessor executable network monitoring module, that at least one of data rate and voice rates charged by a service provider will change in the second area; determining, by the microprocessor executable network monitoring module, if an alternate provider is available in the second area; providing, by an microprocessor executable alert module, an alert to a driver of the vehicle, wherein the alert includes information associated with: the change of the at least one data rate and voice rate in the second area; a way to maximize data and voice usage in the second area; and the alternate provider; and switching, by the microprocessor executable network monitoring module, to the alternate provider. However, Chow discloses a similar mobile phone device and further discloses determining, by a microprocessor executable network monitoring module, that at least one of data rate and voice rates charged by a service provider will change in the second area; determining, by the microprocessor executable network monitoring module, if an alternate provider is available in the second area; providing, by an microprocessor executable alert module, an alert to a driver of the vehicle, wherein the alert includes

information associated with: the change of the at least one data rate and voice rate in the second area; a way to maximize data and voice usage in the second area; and the alternate provider; and switching, by the microprocessor executable network monitoring module, to the alternate provider (Paragraphs 0038-0044). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the dash display of Patel in view of the smart connection manager method of Bowden in order to provide the user with the best data connection at the lowest cost.

26. Regarding claim 14: As discussed above, Patel discloses the claimed invention including a mobile phone device removably connected to the vehicle dashboard (Paragraph 0024) but fails to disclose determining, by the microprocessor executable network monitoring module, that the second area is associated with an interruption of service for at least one of a data provider and a voice provider; determining, by the microprocessor executable network monitoring module, if an alternate provider is available in the second area associated with the interruption of service; providing, by an microprocessor executable alert module, an alert to a driver of the vehicle, wherein the alert includes information associated with: the interruption of service; and the alternate provider; and switching, by the microprocessor executable network monitoring module, to the alternate provider. (Paragraphs 0038-0044). See claim 13 above for obviousness and motivation to combine.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael D. Lang whose telephone number is (571)270-3213. The examiner can normally be reached on Mon thru Thurs - 9:00a to 4:30p EDT.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Trammell can be reached on (571)272-6712. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael D Lang/
Examiner, Art Unit 3667

Notice of References Cited	Application/Control No. 14/253,022	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner Michael D. Lang	Art Unit 3667	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2012/0188876 A1	07-2012	Chow et al.	370/237
*	B	US-2013/0207794 A1	08-2013	Patel et al.	340/425.5
*	C	US-2013/0345929 A1	12-2013	Bowden et al.	701/36
*	D	US-2014/0244111 A1	08-2014	Gross et al.	701/36
	E	US-			
	F	US-			
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	J	US-			
	K	US-			
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	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,251	04/15/2014	Christopher P. Ricci	6583-607	6723

111285 7590 12/29/2014

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
12/29/2014	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):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,251	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) Status Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *4/15/2014*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-7,9-17,19 and 20* is/are rejected.

8)☒ Claim(s) *8 and 18* is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *4/15/2014* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

Claim Rejections - 35 USC § 102

2. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

4. Claims 1 – 7, 9 – 17 and 19 - 20 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Divine et al., (20130030645).

5. (Claims 1, 5, 9 - 11, 15 and 19): Divine discloses a method and system, comprising: detecting a user profile associated with a user (abstract; figs. 3 and 5; [0004]; [0026]), the user profile having infotainment information stored therein ([0004 – 0005]); detecting at least one infotainment system associated with the user (fig. 2; [0030]); and determining to adjust a configuration of the at least one infotainment system based at least partially on the infotainment information in the user profile (fig. 3; [0036 – 0037]).

6. (Claims 2 - 3, 12 - 13 and 20): Divine discloses a method and system, wherein the at least one infotainment system is a vehicle infotainment system (figs. 1 – 2; [0029]), and wherein prior to detecting the user profile the method further comprises: identifying the user inside a vehicle via one or more sensors associated with the vehicle ([0005]; [0025]); and referring, in response to identifying the user, to a memory associated with the identified user, wherein the memory includes the user profile (fig. 1; [0026]).

7. (Claims 4 and 14): Divine discloses a method and system, wherein detecting the at least one infotainment system associated with the user is based at least partially on one or more of a proximity of a user and a user device to the at least one infotainment system (fig. 1; [0005]; [0027]; [0030]).

8. (Claims 6 and 16): Divine discloses a method and system, wherein when the infotainment information does not match the determined configuration of the at least one infotainment system, an adjustment output configured to adjust the configuration of the at least one infotainment system ([0061]).

9. (Claims 7 and 17): Divine discloses a method and system, wherein determining to adjust the configuration of the at least one infotainment system further comprises: determining an access priority of the user (fig. 5; [0032]); and determining whether the access priority of the user allows for the adjustment to the configuration of the at least one infotainment system ([0033]; [0044 - 0045]; [0050]).

Allowable Subject Matter

10. Claims 8 and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to form 892 for cited references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX C. DUNN whose telephone number is (571)270-5323. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Tarcza can be reached on 26979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ALEX C. DUNN
Examiner, Art Unit 3663

/THOMAS TARCZA/

Supervisory Patent Examiner, Art Unit 3663

Notice of References Cited	Application/Control No. 14/253,251	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2004/0093155 A1	05-2004	Simonds et al.	701/200
*	B	US-7,058,898 B2	06-2006	McWalter et al.	715/762
*	C	US-7,142,696 B1	11-2006	Engelsberg et al.	382/118
*	D	US-7,313,547 B2	12-2007	Mocek et al.	705/51
*	E	US-2010/0169432 A1	07-2010	Santori et al.	709/206
*	F	US-2010/0235891 A1	09-2010	Oglesbee et al.	726/5
*	G	US-2010/0305807 A1	12-2010	Basir et al.	701/33
*	H	US-7,864,029 B2	01-2011	Huang et al.	340/426.1
*	I	US-2012/0065815 A1	03-2012	Hess, Wolfgang	701/2
*	J	US-2013/0030645 A1	01-2013	Divine et al.	701/36
*	K	US-8,350,721 B2	01-2013	Carr, Jeffrey Thomas	340/903
*	L	US-8,578,279 B2	11-2013	Chen et al.	715/745
*	M	US-8,660,735 B2	02-2014	Tengler et al.	701/24

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	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	
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	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.

Notice of References Cited	Application/Control No. 14/253,251	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2014/0067201 A1	03-2014	Visintainer et al.	701/36
*	B	US-8,718,797 B1	05-2014	Addepalli et al.	700/17
*	C	US-8,730,033 B2	05-2014	Yarnold et al.	340/539.13
*	D	US-8,793,034 B2	07-2014	Ricci, Christopher P.	701/1
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

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	Q					
	R					
	S					
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Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,388	04/15/2014	Christopher P. Ricci	6583-609	2931

111285 7590 01/30/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
MAWARI, REDHWAN K

ART UNIT	PAPER NUMBER
3665	

NOTIFICATION DATE	DELIVERY MODE
01/30/2015	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):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,388	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner REDHWAN k. MAWARI	Art Unit 3665	AIA (First Inventor to File) Status Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *04/15/2014*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *04/15/2014* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

3. Claims 1-2, 4-12 are rejected under 35 U.S.C. 102 a(1) as being anticipated by Wilson (2003/0004624).

Regarding claim 1, Wilson discloses a method, comprising:

receiving sensor data from one or more vehicle sensors;

determining vehicle health state of one or more subsystems of a vehicle;

determining an overall vehicle health status; and

taking action regarding the vehicle health status (see at least paragraph [0021,0025-0027], and FIG. 1).

Regarding claim 2, Wilson discloses comprising comparing the sensor data to subsystem specification data (see at least paragraph [0035]).

Regarding claim 4, Wilson discloses wherein the one or more subsystems of a vehicle is

unhealthy if the comparison results in one or more characteristics of subsystem specification data not satisfied (see at least paragraph [0034, 0035]).

Regarding claim 5, Wilson discloses wherein if one or more subsystems of a vehicle is unhealthy, the vehicle is unhealthy (see at least paragraph [0027]).

Regarding claim 6, Wilson discloses further comprising noticing a third party if the vehicle is in an unhealthy status (see at least FIG. 1 and FIG. 2).

Regarding claim 7, Wilson discloses wherein the third party is at least one of an original equipment manufacturer (OEM), a maintenance provider, a regulatory monitor and a user (see at least FIG. 1 and FIG. 2).

Regarding claim 8, Wilson discloses further comprising updating a fleet-wide OEM performance database if one or more subsystems are unhealthy (see at least paragraph [0022]).

Regarding claim 9, Wilson discloses wherein the taking action comprises providing an alert (see at least paragraph [0024]).

Regarding claim 10, Wilson discloses further comprising receiving a query from a third-party as to the health state of one or more subsystems of the vehicle (see at least paragraph [0029]).

Regarding claim 11, Wilson discloses further comprising diagnosing the unhealthy

subsystem (see at least abstract).

Regarding claim 12, Wilson discloses further comprising noticing a third party if the vehicle is in an unhealthy status (see at least FIG. 1 and FIG. 2).

Claim Rejections - 35 USC § 103

1. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

2. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 3 and 13 are rejected under 35 U.S.C. 103 as being unpatentable over Wilson (2003/0004624) in view of Anderson (2012/0046822).

Regarding claim 3, Wilson does not explicitly disclose wherein the subsystem specification data is stored in a maintenance database.

Anderson teaches wherein the subsystem specification data is stored in a maintenance database (see at least paragraph [0081]).

It would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to combine the invention of Anderson into the invention of Wilson for the purpose of keeping track of vehicle at all times especially at crisis situations.

Regarding claim 13, Wilson does not explicitly disclose where the one or more vehicle sensors include an odometer, a tachometer, an oil level meter and an image sensor.

Anderson teaches where the one or more vehicle sensors include an odometer, a tachometer, an oil level meter and an image sensor (see at least paragraph [0071]).

It would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to combine the invention of Anderson into the invention of Wilson for the purpose of keeping track of vehicle at all times especially at crisis situations.

Regarding claims 14-20, claims 14-20 are rejected using the same art and rationale used to reject claims 1-13.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Redhwan Mawari whose telephone number is 571 270

1535. The examiner can normally be reached on 7:30 AM - 5PM Mon-Fri Eastern Alt Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Nguyen can be reached on 571 272 6952. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/REDHWAN k MAWARI/

Primary Examiner, Art Unit 3665

Notice of References Cited	Application/Control No. 14/253,388	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner REDHWAN k. MAWARI	Art Unit 3665	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2003/0004624 A1	01-2003	Wilson et al.	701/33
*	B	US-2004/0153356 A1	08-2004	Lockwood et al.	705/009
*	C	US-2012/0046822 A1	02-2012	Anderson, Noel Wayne	701/29.1
*	D	US-8,245,609 B1	08-2012	Greenwald et al.	82/112
*	E	US-2013/0066512 A1	03-2013	Willard et al.	701/29.1
*	F	US-2014/0309852 A1	10-2014	Ricci, Christopher P.	701/34.4
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
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	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.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,727	04/15/2014	Christopher P. Ricci	6583-619	8596

111285 7590 01/06/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
BUTLER, RODNEY ALLEN

ART UNIT	PAPER NUMBER
3667	

NOTIFICATION DATE	DELIVERY MODE
01/06/2015	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):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,727	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner RODNEY BUTLER	Art Unit 3667	AIA (First Inventor to File) Status Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

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Status

1)☒ Responsive to communication(s) filed on *04/15/2014*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

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Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *04/15/2014* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date *11/25/2014*.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

DETAILED ACTION

Status of the Application

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Status of the Claims

2. This action is in response to the applicant's filing on April 15, 2014. Claims 1-20 are pending and examined below.

Claim Rejections - 35 USC § 103

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

3. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-7, 11-13, and 16-18 are rejected under 35 U.S.C. 103 as being unpatentable over U.S. Patent Application Publication No. 2008/0300778 A1 to Kuznetsov (herein after "Kuznetsov publication") in view of U.S. Patent No. 6,944,533 A1 to Obradovich et al. (herein after "Kozak et al. publication").

As to claims 1-7, 11-13, and 16-18,

the Kuznetsov publication discloses a method for providing navigation information for a conveyance, comprising:

a vehicle control system (see Figure 4), including a processor, receiving route information for two or more routes (see ¶6, where the Kuznetsov publication discusses "a CPU with processing power");

the vehicle control system interrogating the route information (see Abstract, ¶4 and ¶6, where the Kuznetsov publication discusses "analyz[ing] trip data");

the vehicle control system storing the interrogated route information (see ¶6, where the Kuznetsov publication discusses "an I/O device to store . . . results of the analyzed trip data");

the vehicle control system retrieving the interrogated route information (see ¶6, where the Kuznetsov publication discusses "an I/O device to . . . retrieve results of the analyzed trip data"); and

the vehicle control system generating a route based on the interrogated route information. (See ¶6, where the Kuznetsov publication discusses "an I/O device to . . . retrieve results of the analyzed trip data to assist the user");

The Kuznetsov publication, however, does not specifically disclose the vehicle control system storing the interrogated route information locally with the conveyance.

Storing route information locally or remotely is a well-known concept in vehicle navigation art. For instance, the Kozak et al. publication discloses a navigation system (110) that allows each end user to store a number of personal destinations. These destinations may include the end user's home, place of businesses, homes of relatives,

or other destinations. The list of personal destinations identifies the location of each destination, e.g., by address, name, coordinates, road segment, etc. The list of personal destinations may be stored remotely on the navigation server 120 or locally on the end user's computing platform 130. (See Col. 5, ln 63 through Col. 6, ln 3).

It would have been obvious to one having ordinary skill in the art before the time the invention was filed to modify the Kuznetsov publication so that the vehicle control system stores the interrogated route information locally with the conveyance, as suggested by the Kozak et al. publication, in order to facilitate the navigation process.

5. Claims 8 and 9 are rejected under 35 U.S.C. 103 as being unpatentable over the Kuznetsov publication in view of the Kozak et al. publication, and further in view of U.S. Patent Application Publication No. 2013/0197796 A1 to Obradovich et al. (herein after "Obradovich et al. publication").

As to claims 8 and 9,

the modified Kuznetsov publication discloses the invention substantially as claimed, except for where the suggested route includes a location for a shop or business where the user may desire to buy a product, based on preference in a user profile associated with the user.

The Obradovich et al. publication, however, teaches a navigation device where the user profiles may be stored and used to navigate a user who may be driving in a vehicle, on foot, or in other mode of transportation. For example, the user business profile corresponding to the user's business persona may be different from the user personal profile corresponding to the user's personal persona. For instance, the user

business profile may include fine-dining type restaurants for business meetings while the user personal profile may instead include fast-food type restaurants for personal dining. (See Abstract.)

It would have been obvious to one having ordinary skill in the art before the time the invention was filed to further modify the Kuznetsov publication, as taught by the Obradovich et al. publication, in order to facilitate the navigation process.

6. Claims 10, 14-15 and 19-20 are rejected under 35 U.S.C. 103 as being unpatentable over the Kuznetsov publication, the Kozak et al. publication and the Obradovich et al. publication, and further in view of U.S. Patent Application Publication No. 2013/0226365 A1 to Brozovich (herein after "Brozovich publication").

As to claims 10, 14-15 and 19-20,

the modified Kuznetsov publication discloses the invention substantially as claimed, except for the interrogation route information being stored in cloud storage.

The Brozovich publication, however, teaches a server 10 communicates with a database, which can store the log of previously traveled routes to a network cloud 12. (See ¶17.)

It would have been obvious to one having ordinary skill in the art before the time the invention was filed to further rmodify the Kuznetsov publication so that the interrogation route information is stored in cloud storage, as taught by the Brozovich publication, in order to facilitate the navigation process.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RODNEY BUTLER whose telephone number is (313)446-6513. The examiner can normally be reached on Monday - Friday, 6:30 am - 3:00 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James P. Trammell can be reached on (571) 272-6712. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/RODNEY BUTLER/
Examiner, Art Unit 3667

Notice of References Cited	Application/Control No. 14/253,727	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner RODNEY BUTLER	Art Unit 3667	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,944,533 B2	09-2005	Kozak et al.	701/540
*	B	US-2006/0173841 A1	08-2006	Bill, David S.	707/006
*	C	US-2008/0300778 A1	12-2008	Kuznetsov, Tsia	701/200
*	D	US-2010/0211304 A1	08-2010	Hwang et al.	701/200
*	E	US-2012/0323413 A1	12-2012	Kedar-Dongarkar et al.	701/22
*	F	US-2013/0019252 A1	01-2013	Haase et al.	719/328
*	G	US-8,417,449 B1	04-2013	Denise, Jason A.	701/411
*	H	US-2013/0166208 A1	06-2013	Forstall et al.	701/538
*	I	US-2013/0197796 A1	08-2013	Obradovich et al.	701/423
*	J	US-2013/0226365 A1	08-2013	Brozovich, Shawn Daniel	701/1
*	K	US-2013/0261966 A1	10-2013	Wang et al.	701/533
*	L	US-2014/0244156 A1	08-2014	Magnusson et al.	701/418
*	M	US-2014/0278070 A1	09-2014	McGavran et al.	701/465

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N	KR 20060128484 A	12-2006	Korea	NAM KI MO	
	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.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,743	04/15/2014	Christopher P. Ricci	6583-626	9037

111285 7590 02/12/2015

Sheridan Ross P.C.
1560 Broadway
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Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
02/12/2015	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):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,743	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) Status Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *4/15/2014*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *4/15/2014* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

Claim Rejections - 35 USC § 102

2. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

4. Claims 1 – 6, 9 – 13, 15 – 18 and 20 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Liu et al., (20090287405).

5. (Claims 1, 11 and 16): Liu discloses a method for providing navigation information for a conveyance, comprising: a vehicle control system, including a processor, providing a route for travel (fig. 2; [0030]); the vehicle control system, while traveling the route, determining statistics about the travel ([0050]); and the vehicle control system communicating the statistics (fig. 2; [0002]; [0035]; [0037]).

6. (Claims 2 – 4, 10, 12 and 17): Liu discloses the system of claims 1, 11 and 16, wherein the statistics are communicated to a device (fig. 1; [0055]), and wherein the device is associated with a passenger in the conveyance ([0015 - 0016]).

7. (Claims 5, 6, 13 and 18): Liu discloses the system of claims 1, 11 and 16, wherein the statistics include information about the route, wherein the statistics include one or more of an estimated time of arrival ([0035]) and average speed ([0027]), and wherein the information about the route includes information about sites or destinations that are along the route ([0037 – 0039]).

8. (Claims 9, 15 and 20): Liu discloses the system of claims 1, 11 and 16, wherein the statistics are updated periodically ([0022]; [0042]).

Claim Rejections - 35 USC § 103

9. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

10. Claims 7, 8, 14 and 19 are rejected under 35 U.S.C. 103 as being unpatentable over Liu et al., (20090287405) as applied to claims 1, 11 and 16 above, and further in view of Van Buer et al., (7233861).

11. (Claims 7, 8, 14 and 19): Liu discloses the system of claims 1, 11 and 16, and wherein the passenger searches for destinations along the route ([0027]). Liu does not teach sites or destinations based on information in a user profile. However, in a related

invention Van Buer teaches predicting vehicle operator's destinations, wherein the sites or destinations may be of interest to the passenger based on information in a user profile associated with the passenger (col 2, lns 49 – 51; col 3, ln 4). It would have been obvious to one of ordinary skill in the art, before the effective filing date of the claimed invention to modify Liu to use information stored in user profiles to search for POIs, merely as a programming convenience.

Claim Rejections - 35 USC § 101

12. 35 U.S.C. 101 reads as follows:

> Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1 – 10 are rejected under 35 U.S.C. 101 because the claimed invention is directed to a judicial exception (i.e., a law of nature, a natural phenomenon, or an abstract idea) without significantly more. Claims 1 - 10 are directed to an abstract idea. The claims do not include additional elements that are sufficient to amount to significantly more than the judicial exception because;

13. (Claim 1): The steps of providing a route for travel, determining statistics and communicating those statistics are respectively considered as a mental step, another mental step and insignificant post solution activity and thus directed to an abstract idea.

14. (Claims 2 – 10): These claims are dependent on claim 1 and only add further details to the steps in that independent claim without adding significantly more to the abstract idea. They are therefore also rejected on the same grounds as claim 1.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to form 892 for cited references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX C. DUNN whose telephone number is (571)270-5323. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Tarcza can be reached on 26979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ALEX C. DUNN
Examiner, Art Unit 3663

/THOMAS TARCZA/

Supervisory Patent Examiner, Art Unit 3663

Notice of References Cited	Application/Control No. 14/253,743	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,204,817 A	04-1993	Yoshida, Motomasa	701/411
*	B	US-2004/0225557 A1	11-2004	Phelan et al.	705/011
*	C	US-7,047,129 B2	05-2006	Uotani, Kazushi	701/414
*	D	US-7,233,861 B2	06-2007	Van Buer et al.	701/424
*	E	US-2009/0287405 A1	11-2009	Liu et al.	701/119
*	F	US-2010/0125405 A1	05-2010	Chae et al.	701/200
*	G	US-7,873,471 B2	01-2011	Gieseke, Arnold	701/416
*	H	US-7,864,073 B2	01-2011	Lee et al.	340/988
*	I	US-2011/0313653 A1	12-2011	Lindner, Jeffery Erhard	701/201
*	J	US-2012/0010807 A1	01-2012	Zhou, Leqing	701/207
*	K	US-8,509,982 B2	08-2013	Montemerlo et al.	701/26
*	L	US-2013/0261966 A1	10-2013	Wang et al.	701/533
*	M	US-2013/0304371 A1	11-2013	Kitatani et al.	701/408

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	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.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,766	04/15/2014	Christopher P. Ricci	6583-627	4564

111285 7590 12/12/2014

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
12/12/2014	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):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,766	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) Status Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *4/15/2014*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-5,11-14 and 16-19* is/are rejected.

8)☒ Claim(s) *6-10,15 and 20* is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *4/15/2014* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

Claim Objections

2. Claims 2 – 10 and 12 – 20 are objected to because of the following informalities: The claim dependencies such as 121, 131, etc., are incorrect. For purposes of this office action, the first two digits of the dependencies in claims 2 – 10 are ignored, while for claims 12 – 20, the middle digits are ignored. Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(2) the claimed invention was described in a patent issued under section 151, or in an application for patent published or deemed published under section 122(b), in which the patent or application, as the case may be, names another inventor and was effectively filed before the effective filing date of the claimed invention.

5. Claims 1 – 3, 11 – 13 and 16 - 18 are rejected under 35 U.S.C. 102(a)(2) as being anticipated by Mitchell et al., (20130198031).

6. (Claims 1 - 3, 11 - 13 and 16 - 18): Mitchell discloses a method and system for optimum routing for providing navigation information for a conveyance, comprising: a vehicle control system, including a processor, receiving a list of goods to purchase (figs. 1 and 3); the vehicle control system determining a cost of the goods (fig. 3; [0012]); the vehicle control system determining two or more best locations where the cost of the goods is the least (fig. 4; [0018]); the vehicle control system determining a cost of travel to each of the two or more best locations ([0018]); and the vehicle control system determining a total cost of obtaining the goods based on the cost of goods at and the travel cost to the two or more best locations (fig. 3; [0016]; [0018]).

Claim Rejections - 35 USC § 103

7. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

8. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 4 – 5, 14 and 19 are rejected under 35 U.S.C. 103 as being unpatentable over Mitchell et al., (20130198031) as applied to claims 1, 11 and 16 above, and further in view of Chu et al., (20020174021).

10. (Claims 4 – 5, 14 and 19): Mitchell discloses a method and system for optimum routing for providing navigation information for a conveyance, comprising: a vehicle control system, including a processor, receiving a list of goods to purchase (figs. 1 and 3); the vehicle control system determining a cost of the goods (fig. 3; [0012]). Mitchell also teaches wherein the cost of travel is based on a distance to the best location ([0017 – 0018]). Mitchell does not specifically disclose one or more product on the shopping list being associated with multiple best locations. However, in a related invention Chu teaches an optimized shopping list process wherein a cost for at least one product in the list of goods is associated with each of the two or more best locations ([0013]). It would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention, to modify Mitchell to consider an item available in multiple locations, as a fairly common situation for this type of application.

Allowable Subject Matter

11. Claims 6 – 10, 15 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to form 892 for cited references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX C. DUNN whose telephone number is (571)270-5323. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Tarcza can be reached on 26979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ALEX C. DUNN
Examiner, Art Unit 3663

/THOMAS TARCZA/
Supervisory Patent Examiner, Art Unit 3663

Notice of References Cited	Application/Control No. 14/253,766	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2002/0174021 A1	11-2002	Chu et al.	705/26
*	B	US-2004/0260470 A1	12-2004	Rast, Rodger H.	701/300
*	C	US-7,239,960 B2	07-2007	Yokota et al.	701/533
*	D	US-2010/0057337 A1	03-2010	Fuchs, Gil	701/200
*	E	US-2010/0211441 A1	08-2010	Sprigg et al.	705/14.1
*	F	US-2010/0332130 A1	12-2010	Shimizu et al.	701/209
*	G	US-2013/0166096 A1	06-2013	Jotanovic, Mark A.	701/1
*	H	US-2013/0198031 A1	08-2013	Mitchell et al.	705/26.8
*	I	US-2014/0058672 A1	02-2014	WANSLEY et al.	701/533
*	J	US-2014/0067564 A1	03-2014	Yuan, Mark D.	705/16
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	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.

UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

111285 7590 03/06/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

DATE MAILED: 03/06/2015

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,506	04/15/2014	Christopher P. Ricci	6583-637	5446

TITLE OF INVENTION: INTELLIGENT VEHICLE FOR ASSISTING VEHICLE OCCUPANTS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	06/08/2015

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 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity 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 and an extra copy of the form should be submitted. 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: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (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)

111285 7590 03/06/2015
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

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 facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,506	04/15/2014	Christopher P. Ricci	6583-637	5446

TITLE OF INVENTION: INTELLIGENT VEHICLE FOR ASSISTING VEHICLE OCCUPANTS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	06/08/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
DUNN, ALEX C	3663	701-001000

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/SB/122) attached.
- ❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

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

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

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. 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. The following fee(s) are submitted:
- ❑ Issue Fee
- ❑ Publication Fee (No small entity discount permitted)
- ❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ❑ A check is enclosed.
- ❑ Payment by credit card. Form PTO-2038 is attached.
- ❑ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ❑ Applicant certifying micro entity status. See 37 CFR 1.29 — NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ❑ Applicant asserting small entity status. See 37 CFR 1.27 — NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ❑ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

Page 786 of 907 Ford Ex. 1002

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,506	04/15/2014	Christopher P. Ricci	6583-637	5446

111285 7590 03/06/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER	
DUNN, ALEX C	

ART UNIT	PAPER NUMBER
3663	

DATE MAILED: 03/06/2015

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 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, 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); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

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

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

Notice of Allowability	Application No. 14/253,506	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) 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 *2/17/2015*.
   ☐ 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 *1-35*. 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 _____.

/A. C. D./ Examiner, Art Unit 3663	/THOMAS TARCZA/ Supervisory Patent Examiner, Art Unit 3663

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 3663
Christopher P. Ricci	)	Confirmation No.: 5072
Serial No.: 14/253,312	)	Examiner: DUNN, ALEX C
Filed: April 15, 2014	)	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-585	)	
Entitled: "Vehicle-Based Multimode Discovery"	)	*Electronically Submitted*

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

Dear Commissioner:

The references cited on attached Form PTO/SB08 are being called to the attention of the Examiner.

☒ Copies of the cited non-patent and/or foreign references are enclosed herewith.

☐ Copies of the cited U.S. patents and/or patent applications are enclosed herewith.

☒ Copies of the cited U.S. patents/patent application publications are not enclosed in accordance with 37 C.F.R. § 1.98(a).

☐ Copies of the cited references are not enclosed, in accordance with 37 C.F.R. § 1.98(d), because the references were cited by or submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____ filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.

☒ To the best of applicants' belief, the pertinence of the foreign-language references is believed to be summarized in the attached English abstracts and/or in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

☐ Examiner's attention is drawn to the following related applications:

Serial No. _____ filed _____ (Attorney Ref. No. _____)

Serial No. _____ filed _____ (Attorney Ref. No. _____)

☐ Other:_____

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence

of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

FEES

☐	**37 CFR 1.97(b)**: No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith is satisfied by one of the following conditions ("X" indicates satisfaction): ☐ Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or ☐ Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application, or ☐ Before the mailing date of a first Office Action on the merits, or ☐ Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.
☐	**37 CFR 1.97(c)**: The information disclosure statement transmitted herewith is being filed after all the above conditions (37 CFR 1.97(b)), but before the mailing date of any one of the following conditions: (1) a final action under 37 C.F.R. 1.113, or (2) a notice of allowance under 37 C.F.R. 1.311, or (3) an action that otherwise closes prosecution in the application. This Information Disclosure Statement is accompanied by: ☐ A Certification (below) as specified by 37 C.F.R. 1.97(e). Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970. OR ☐ Please charge Deposit Account 19-1970 in the amount of $180.00 for the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement. Please credit any overpayment or charge any underpayment to Deposit Account 19-1970.
☒	**37 CFR 1.97(d)**: This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c). ☒ This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e) AND ☒ Applicants hereby requests consideration of the reference(s) disclosed herein. Please charge Deposit Account 19-1970 in the amount of $180.00 under 37 C.F.R. 1.17(p). Please credit any overpayment or charge any underpayment to Deposit Account 19-1970. Election to pay the fee should not be taken as an indication that applicant(s) cannot execute a certification.

Certification (37 C.F.R. 1.97(e))
(Applicable only if checked)

☒ The undersigned certifies that:

☐ Each item of information contained in the Information Disclosure Statement submitted herewith 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 this statement. 37 C.F.R. 1.97(e)(1).

☐ A copy of the communication from the foreign patent office is enclosed.

OR

☒ No item of information contained in the Information Disclosure Statement submitted herewith was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

SHERIDAN ROSS P.C.

By: /Douglas W. Swartz/
Douglas W. Swartz
Registration No. 37739
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: March 12, 2015

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/253,312
				Filing Date	April 15, 2014
				First Named Inventor	Christopher P. Ricci
(Use as many sheets as necessary)				Art Unit	3663
				Examiner Name	DUNN, ALEX C
Sheet	1	of	1	Attorney Docket Number	6583-585

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	2010/0106344	04/29/2010	Edwards et al.	
	2	2011/0210867	09/01/2011	Benedikt	
	3	2013/0024060	01/24/2013	Sukkarie et al.	
	4	2013/0059607	03/07/2013	Herz et al.	
	5	2013/0204455	08/08/2013	Chia et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]; Number[4]; Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

NON-PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.[1]	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, page(s), volume-issue number(s), publisher, city and/or country where published.
	6	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US14/034194, mailed Dec. 31, 2014 (Attorney's Ref. No. 6583-585-PCT) 11 pages

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Electronic Patent Application Fee Transmittal

Application Number:	14253312
Filing Date:	15-Apr-2014
Title of Invention:	VEHICLE-BASED MULTIMODE DISCOVERY
First Named Inventor/Applicant Name:	Christopher P. Ricci
Filer:	Douglas W. Swartz/Theresa Brown
Attorney Docket Number:	6583-585

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:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
		Total in USD ($)		**180**

Electronic Acknowledgement Receipt

EFS ID:	21813523
Application Number:	14253312
International Application Number:	
Confirmation Number:	5072
Title of Invention:	VEHICLE-BASED MULTIMODE DISCOVERY
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	111285
Filer:	Douglas W. Swartz/Theresa Brown
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-585
Receipt Date:	18-MAR-2015
Filing Date:	15-APR-2014
Time Stamp:	18:59:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$180
RAM confirmation Number	5476
Deposit Account	191970
Authorized User	

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

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 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	Other Reference-Patent/App/Search documents	6583-585-PCT_ISR_WO_12-31-2014.pdf	961512 a5c1ca759b403f5d0462b487f4db94b19bd704fd	no	11
Warnings:					
Information:					
2		6583-585_IDS_03.pdf	153673 66e18609505a21b37411f3cfead593b8fff7e416	yes	4

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Transmittal Letter	1	3
	Information Disclosure Statement (IDS) Form (SB08)	4	4

Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30784 1d5781b57e02a236f1545ce12c009294c60c4366	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1145969		

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.

PATENT COOPERATION TREATY

RECEIVED
JAN 05 2015
SHERIDAN ROSS P.C.
DOCKETING DEPT

From the INTERNATIONAL SEARCHING AUTHORITY

To: DOUGLAS W. SWARTZ
SHERIDAN ROSS P.C.
1560 BROADWAY, SUITE 1200
DENVER, CO 80202

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

	Date of mailing *(day/month/year)* 31 DEC 2014
Applicant's or agent's file reference 6583-585-PCT	**FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No. PCT/US2014/034194	International filing date *(day/month/year)* 15 April 2014
Applicant FLEXTRONICS AP, LLC	

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

   Filing of amendments and statement under Article 19:
   The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

   When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

   How? Directly to the International Bureau of WIPO preferably through ePCT or on paper to, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 82 70

   For more detailed instructions, see *PCT Applicant's Guide*, International Phase, paragraphs 9.004 - 9.011.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ **With regard to any protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
   - ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with any request to forward the texts of both the protest and the decision thereon to the designated Offices.
   - ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

   The applicant may **submit comments on an informal basis on the written opinion of the International Searching Authority** to the International Bureau. These comments will be made available to the public after international publication. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established.

   Shortly after the expiration of **18 months from the priority date, the international application will be published** by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau before the completion of the technical preparations for international publication (Rules 90*bis*.1 and 90*bis*.3).

   Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for **entry into the national phase** before those designated Offices. In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months. For details about the applicable time limits, Office by Office, see www.wipo.int/pct/en/texts/time_limits.html and the *PCT Applicant's Guide*, National Chapters.

   Within **19 months from the priority date, the applicant may request that a supplementary international search be carried out** by a different International Searching Authority that offers this service (Rule 45*bis*.1). The procedure for requesting supplementary international search is described in the *PCT Applicant's Guide*, International Phase, paragraphs 8.006-8.032.

Name and mailing address of the ISA/ Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 Telephone No. PCT OSP: 571-272-7774

Form PCT/ISA/220 (July 2014)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 8583-585-PCT	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US2014/034194	International filing date *(day/month/year)* 15 April 2014	(Earliest) Priority Date *(day/month/year)* 15 April 2013
Applicant FLEXTRONICS AP, LLC		

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 5 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 43.6*bis*(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. 4

☒ 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
PCT/US2014/034194

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
See extra sheet.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-23

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

☐ No protest accompanied the payment of additional search fees.

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

Methods, systems, and a computer readable medium are provided for maintaining a persona of a vehicle occupant and, based on the persona of the vehicle occupant and vehicle-related information, performing an action assisting the vehicle occupant. Methods, systems, and a computer readable medium are also provided for a vehicle containing multiple blade processors for performing vehicle and/or infotainment tasks, functions, and operations

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2014/034184

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - B60W 10/00 (2014.01)
USPC - 701/45
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)
IPC(8) - B60W 10/00 (2014.01)
USPC - 340/905; 701/22, 45, 424; 709/224

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
CPC: B60W 2530/14, B60W 2540/24, B60W 2540/28, B60W 2550/12 (2014.09) (keyword delimited)

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

Orbit, Google Patents, Google Scholar, Google.
Search terms used: vehicle, identification, profile, driver, occupant, location, sensor, route

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X -- Y	US 2011/0210867 A1 (BENEDIKT) 01 September 2011 (01.09.2011) entire document	1-2, 4-5, 8-9, 11-12, 15-16, 18-19, 22 --- 3, 6, 7, 10, 13, 14, 17, 20, 21, 23
Y	US 2012/0053793 A1 (SALA et al) 01 March 2012 (01.03.2012) entire document	3, 6, 7, 10, 13, 14, 17, 20, 21, 23
(P, Y)	US 2013/0204455 A1 (CHIA et al) 08 August 2013 (08.08.2013) entire document	6
A	US 2013/0059607 A1 (HERZ et al) 07 March 2013 (07.03.2013) entire document	1-23
A	US 2013/0024060 A1 (SUKKARIE et al) 24 January 2013 (24.01.2013) entire document	1-23
A	US 2010/0106344 A1 (EDWARDS et al) 29 April 2010 (29.04.2010), abstract, paragraph 16	1-23

☐ Further documents are listed in the continuation of Box C. ☐

* 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
15 December 2014	31 DEC 2014
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/210 (second sheet) (July 2009)

Continuation of Box III.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claims 1-23, drawn to a method, vehicle and tangible non-transient computer readable medium; maintaining a persona of a vehicle occupant; and based on the persona and vehicle-related information, perform an action assisting the vehicle occupant.
Group II, claims 24-31, drawn to a vehicle comprising: a backplane having a first communication zone defining a trusted network; the backplane having a second communication zone defining an untrusted network; the backplane having a third communication zone providing power and data transmission to the plurality of blade processors.
Group III, claims 32-39, drawn to a vehicle wherein the plurality of blade processors comprises a master blade processor operable to assign a component and/or module requiring a blade processor for execution to a selected blade processor.

The inventions listed as Groups I, II and III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature of the Group I invention: maintaining a persona of a vehicle occupant; and based on the persona and vehicle-related information, perform an action assisting the vehicle occupant as claimed therein is not present in the invention of Groups II and III. The special technical feature of the Group II invention: a backplane having a first communication zone defining a trusted network; the backplane having a second communication zone defining an untrusted network; the backplane having a third communication zone providing power and data transmission to the plurality of blade processors as claimed therein is not present in the invention of Groups I or III. The special technical feature of the Group III invention: the plurality of blade processors comprises a master blade processor operable to assign a component and/or module requiring a blade processor for execution to a selected blade processor as claimed therein is not present in the invention of Groups I or II.

Groups I, II and III lack unity of invention because even though the inventions of these groups require the technical feature of a vehicle having a plurality of blade processors, each blade processor performing a function that is at least one of a vehicle task, function, or operation and an infotainment task, function or operation, this technical feature is not a special technical feature as it does not make a contribution over the prior art. Specifically, US 2010/0106344 A1 (EDWARDS et al) 29 April 2010 (29.04.2010), abstract, paragraph 16.

Since none of the special technical features of the Group I, II or III inventions are found in more than one of the inventions, unity of invention is lacking.

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: DOUGLAS W. SWARTZ
SHERIDAN ROSS P.C.
1560 BROADWAY, SUITE 1200
DENVER, CO 80202

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)*	31 DEC 2014
Applicant's or agent's file reference 6583-585-PCT	FOR FURTHER ACTION See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2014/034194	15 April 2014	15 April 2013

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - B60W 10/00 (2014.01)
USPC - 701/45

Applicant FLEXTRONICS AP, LLC

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 43*bis*.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 66.1*bis*(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.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer:
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	15 December 2014	Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/237 (cover sheet) (July 2011)

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2014/034194

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 43*bis* 1(a)).

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 filed or furnished:

a. (means)

☐ on paper

☐ in electronic form

b. (time)

☐ in the international application as filed

☐ together with the international application in electronic form

☐ subsequently to this Authority for the purposes of search

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 in 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.
PCT/US2014/034194

Box No. IV Lack of unity of invention

1. ☒ In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the appicable time limit.
   - ☐ paid additional fees
   - ☐ paid additional fees under protest and, where applicable, the protest fee
   - ☐ paid additional fees under protest but the applicable protest fee was not paid
   - ☒ not paid additional fees
2. ☐ This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
   - ☐ complied with
   - ☒ not complied with for the following reasons:

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claims 1-23, drawn to a method, vehicle and tangible non-transient computer readable medium; maintaining a persona of a vehicle occupant; and based on the persona and vehicle-related information, perform an action assisting the vehicle occupant.
Group II, claims 24-31, drawn to a vehicle comprising: a backplane having a first communication zone defining a trusted network; the backplane having a second communication zone defining an untrusted network; the backplane having a third communication zone providing power and data transmission to the plurality of blade processors.
Group III, claims 32-39, drawn to a vehicle wherein the plurality of blade processors comprises a master blade processor operable to assign a component and/or module requiring a blade processor for execution to a selected blade processor.

The inventions listed as Groups I, II and III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature of the Group I invention: maintaining a persona of a vehicle occupant, and based on the persona and vehicle-related information, perform an action assisting the vehicle occupant as claimed therein is not present in the invention of Groups II and III. The special technical feature of the Group II invention: a backplane having a first communication zone defining a trusted network; the backplane having a second communication zone defining an untrusted network; the backplane having a third communication zone providing power and data transmission to the plurality of blade processors as claimed therein is not present in the invention of Groups I or III. The special technical feature of the Group III invention: the plurality of blade processors comprises a master blade processor operable to assign a component and/or module requiring a blade processor for execution to a selected blade processor as claimed therein is not present in the invention of Groups I or II.

Groups I, II and III lack unity of invention because even though the inventions of these groups require the technical feature of a vehicle having a plurality of blade processors, each blade processor performing a function that is at least one of a vehicle task, function, or operation and an infotainment task, function or operation, this technical feature is not a special technical feature as it does not make a contribution over the prior art. Specifically, US 2010/0106344 A1 (EDWARDS et al) 29 April 2010 (29.04.2010), abstract, paragraph 16.

Since none of the special technical features of the Group I, II or III inventions are found in more than one of the inventions, unity of invention is lacking.

4. Consequently, this opinion has been established in respect of the following parts of the international application:
   - ☐ all parts
   - ☒ the parts relating to claims Nos. 1-23

Form PCT/ISA/237 (Box No. IV) (July 2011)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2014/034194

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

1. Statement

Novelty (N)	Claims	3, 6, 7, 10, 13, 14, 17, 20, 21, 23	YES
	Claims	1-2, 4-5, 8-9, 11-12, 15-16, 18-19, 22	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-23	NO
Industrial applicability (IA)	Claims	1-23	YES
	Claims	None	NO

2. Citations and explanations

Claims 1-2, 4-5, 8-9, 11-12, 15-16, 18-19, 22 lack novelty under PCT Article 33(2) as being anticipated by Benedikt.

Regarding claims 1, 8, 15, Benedikt discloses a method, vehicle (para 86, Fig. 2), and tangible and non-transient computer readable medium comprising microprocessor executable instructions that (para 21), when executed, perform functions comprising: maintaining, by a microprocessor executable profile identification module (see Fig. 2), a persona of a vehicle occupant (profile of each driver stored, para 38); and based on the persona of the vehicle occupant and vehicle-related information (system used driver profile information and trip information and geographic information of vehicle, para 38; see para 101-106), performing, by a microprocessor executable vehicle control system, an action assisting the vehicle occupant (the situation awareness system includes an automatic vehicle control system that controls a parameter to assist the driver, see para 49-51, 118).

Regarding claims 2, 9, 16, Benedikt discloses wherein the vehicle-related information comprises at least one of a current and/or future vehicle location and path of vehicle travel (para 97).

Regarding claims 4, 11, 18, Benedikt discloses wherein the persona comprises one or more of bioinformatics, medical information, driving history (para 98), personal information, private information, travel information, and Internet browsing history and/or browsed content, wherein vehicle related information comprises one or more of vehicle context, state, external surroundings (para 94), location (para 97-98), past, current, and/or intended path of travel, waypoint, and destination, and wherein the action is one or more of making an appointment, making a reservation, purchasing an item on line, adding a waypoint or destination to path of travel on a navigation system of the vehicle, adding an entry into the occupant's electronic calendar, changing a destination or path of travel on the navigation system, warning the occupant (para 113, 118), notifying the occupant, and sending a message to a person at a waypoint or destination of the vehicle regarding an arrival time.

Regarding claims 5, 12, 19, Benedikt discloses determining, by the vehicle control system, relevant information other than the persona of the vehicle occupant and the vehicle-related information, the relevant information comprising one or more of a persona of a selected person not currently in the vehicle, a message from a friend or family member of the vehicle occupant, a current activity of the friend and/or family member, a location, hours of operation, and/or descriptive information about a point and/or location of interest near the vehicle and/or the vehicle's path of travel, a location, hours of operation, and/or descriptive information about a vehicle service facility near the vehicle and/or the vehicle's path of travel, a location, hours of operation, and/or descriptive information about a hotel and/or motel near the vehicle and/or the vehicle's path of travel, a current location of the friend or family member near the vehicle and/or the vehicle's path of travel, and a road condition along a path of travel of the vehicle (para 102).

Regarding claim 22, Benedikt discloses wherein the maintaining of the persona comprises collecting information from one or more vehicle sensors and/or from a remote information source (see para 44, 100) and wherein a type of information collected depends on one or more of an identity of the occupant, an age of the occupant, and an association of the occupant with the vehicle (para 96, 38).

Supplemental Box

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

Claims 3, 6, 7, 10, 13, 14, 17, 20, 21, 23 lack an inventive step under PCT Article 33(3) as being obvious over Benedikt in view of Sala et al., hereinafter referred to as Sala.

Regarding claims 3, 10, 17, Benedikt lacks wherein the action performed depends on a seating position of the vehicle occupant. However, Sala is in the field of occupant recognition systems used in vehicles (abstract, para 14) and teaches wherein the action performed depends on a seating position of the vehicle occupant (occupant recognition and verification system 12, the identification and adjustment algorithm 60 resides in the wireless module 32. The identification and adjustment algorithm 60 uses remote keyless entry key fob information, along with seat position, occupant weight, and other data, to attempt to verify the identity of the driver 28 and/or the front seat passenger 30. If identity is verified, then the identification and adjustment algorithm 60 commands the adjustment of components, such as the driver seat 14, the headrest 16, the outside rearview mirrors 18, the shoulder belt height adjuster 20, the steering wheel and column 22, and the pedals 24, to optimum position, para 24-25). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the seat position identification features as taught in Sala with the invention of Benedikt in order to verify the driver identification before personalizing the vehicle action (see Sala, para 22, 25).

Regarding claims 6, 13, 20, Benedikt lacks wherein the vehicle obtains the persona from one or more of a different vehicle driven by the occupant and a home computer and wherein the vehicle synchronizes with the different vehicle and/or home computer when the vehicle is parked in proximity thereto and an ignition of the vehicle is turned off.
However, Sala is in the field of occupant recognition systems used in vehicles (abstract, para 14) and teaches wherein the vehicle obtains the persona from one or more of a different vehicle driven by the occupant and a home computer (vehicle can receive driver profile information through wireless module 32, para 14, 17; the driver's profile data could be wirelessly transmitted from a smart card or smart phone device (not shown) in the possession of the driver 28, para 29-30) and wherein the vehicle synchronizes with the different vehicle and/or home computer when the vehicle is parked in proximity thereto (para 29-30). Furthermore, transferring data only when the ignition of a vehicle is turned off would have been a matter of design choice, to ensure the driver is not distracted during the operation. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the driver profile features as taught in Sala with the invention of Benedikt in order to ensure the driver profile is updated on the vehicle (see Sala, para 14, 29-30).

Regarding claims 7, 14, 21, Benedikt discloses wherein the maintaining of the persona comprises collecting information from one or more vehicle sensors and/or from a remote information source (see para 44, 100), but does not disclose wherein a type of information collected depends on a seating position of the occupant.
However, Sala is in the field of occupant recognition systems used in vehicles (abstract, para 14) and teaches wherein a type of information collected depends on a seating position of the occupant (occupant recognition and verification system 12, the identification and adjustment algorithm 60 resides in the wireless module 32. The identification and adjustment algorithm 60 uses remote keyless entry key fob information, along with seat position, occupant weight, and other data, to attempt to verify the identity of the driver 28 and/or the front seat passenger 30. If identity is verified, then the identification and adjustment algorithm 60 commands the adjustment of components, such as the driver seat 14, the headrest 16, the outside rearview mirrors 18, the shoulder belt height adjuster 20, the steering wheel and column 22, and the pedals 24, to optimum position, para 24-25). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the seat position identification features as taught in Sala with the invention of Benedikt in order to verify the driver identification before personalizing the vehicle action (see Sala, para 22, 25).

Regarding claim 23, Benedikt lacks wherein the persona is defined in a format that can be processed by vehicles of different manufacturers.
However, Sala is in the field of occupant recognition systems used in vehicles (abstract, para 14) and teaches transferring the persona to a vehicle (vehicle can receive driver profile information through wireless module 32, para 14, 17; the driver's profile data could be wirelessly transmitted from a smart card or smart phone device (not shown) in the possession of the driver 28, para 29-30). Furthermore, specifying the profile data can be used by different vehicles would have been a matter of design choice. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the driver profile features as taught in Sala with the invention of Benedikt in order to allow the system to transfer user profile data to any vehicle by standardizing the file format.

Claims 1-23 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 3663
Christopher P. Ricci	)	Confirmation No.: 5072
Serial No.: 14/253,312	)	Examiner: DUNN, ALEX C
Filed: April 15, 2014	)	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-585	)	
Entitled: "Vehicle-Based Multimode Discovery"	)	*Electronically Submitted*

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

Dear Commissioner:

The references cited on attached Form PTO/SB08 are being called to the attention of the Examiner.

☒ Copies of the cited non-patent and/or foreign references are enclosed herewith.

☐ Copies of the cited U.S. patents and/or patent applications are enclosed herewith.

☒ Copies of the cited U.S. patents/patent application publications are not enclosed in accordance with 37 C.F.R. § 1.98(a).

☐ Copies of the cited references are not enclosed, in accordance with 37 C.F.R. § 1.98(d), because the references were cited by or submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____ filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.

☐ To the best of applicants' belief, the pertinence of the foreign-language references is believed to be summarized in the attached English abstracts and/or in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

☐ Examiner's attention is drawn to the following related applications:

Serial No. _____ filed _____ (Attorney Ref. No. _____)

Serial No. _____ filed _____ (Attorney Ref. No. _____)

☐ Other:_____

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence

of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

FEES

☐	**37 CFR 1.97(b)**: No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith is satisfied by one of the following conditions ("X" indicates satisfaction): ☐ Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or ☐ Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application, or ☐ Before the mailing date of a first Office Action on the merits, or ☐ Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.
☐	**37 CFR 1.97(c)**: The information disclosure statement transmitted herewith is being filed after all the above conditions (37 CFR 1.97(b)), but before the mailing date of any one of the following conditions: (1) a final action under 37 C.F.R. 1.113, or (2) a notice of allowance under 37 C.F.R. 1.311, or (3) an action that otherwise closes prosecution in the application. This Information Disclosure Statement is accompanied by: ☐ A Certification (below) as specified by 37 C.F.R. 1.97(e). Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970. OR ☐ Please charge Deposit Account 19-1970 in the amount of $180.00 for the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement. Please credit any overpayment or charge any underpayment to Deposit Account 19-1970.
☒	**37 CFR 1.97(d)**: This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c). ☒ This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e) AND ☒ Applicants hereby requests consideration of the reference(s) disclosed herein. Please charge Deposit Account 19-1970 in the amount of $ 180.00 under 37 C.F.R. 1.17(p). Please credit any overpayment or charge any underpayment to Deposit Account 19-1970. Election to pay the fee should not be taken as an indication that applicant(s) cannot execute a certification.

Certification (37 C.F.R. 1.97(e))
(Applicable only if checked)

☒ The undersigned certifies that:

☒ Each item of information contained in the Information Disclosure Statement submitted herewith 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 this statement. 37 C.F.R. 1.97(e)(1).

☒ A copy of the communication from the foreign patent office is enclosed.

OR

☐ No item of information contained in the Information Disclosure Statement submitted herewith was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

SHERIDAN ROSS P.C.

By: /Douglas W. Swartz/
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Date: March 18, 2015

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 3663
Christopher P. Ricci	)	Confirmation No.: 5072
Serial No.: 14/253,312	)	Examiner: DUNN, ALEX C
Filed: April 15, 2014	)	*Electronically Submitted*
Atty. File No.: 6583-585	)	
Entitled: "Vehicle-Based Multimode Discovery"	)	

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

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

Commissioner:

Applicant submits these Comments on Statement of Reasons for Allowance to address further the Notice of Allowability ("Notice") having a mailing date of December 19, 2014.

In the Notice, the Examiner's stated reasons for allowance were that:

> The prior art of record fails to teach - applying, by the device discovery daemon, at least the following rules: (C1) when the computational device is located within the predetermined area and/or zone of the vehicle, permitting the computational device to access or attempt to access the vehicle network and/or communication subsystem; and (C2) when the computational device is not located within the predetermined area and/or zone of the vehicle, not permitting the computational device to access or attempt to access the vehicle network and/or communication subsystem.

Based on the Notice, the patentability of all other independent and dependent claims is assumed to be based upon the elements as set forth in such claims and that such claims meet all criteria for patentability under §101, §102, §103 and §112.

As is clear from MPEP 1302.14,

> "The statement [of reasons for allowance] is not intended to necessarily state all the reasons for allowance or all the details why claims are allowed and should not be written to specifically or impliedly state that all the reasons for allowance are set forth."

While the above statement may be a stated reason for allowing some independent claims, Applicant submits that some independent claims may have a different reason for allowance and/or that some independent claims may have other reasons for allowance.

Specifically, the prior art fails to teach the following features of Claims 1, 8 and 15:

> 1. A method, comprising:
> (a) determining, by a microprocessor executable device discovery daemon, that a computational device is connected to or attempting to connect to a network and/or communication subsystem of a vehicle;
> (b) in response, determining, by the device discovery daemon, whether the computational device is located within a predetermined area and/or zone of the vehicle; and
> (c) applying, by the device discovery daemon, at least the following rules:
> (C1) when the computational device is located within the predetermined area and/or zone of the vehicle, permitting the computational device to access or attempt to access the vehicle network and/or communication subsystem; and
> (C2) when the computational device is not located within the predetermined area and/or zone of the vehicle, not permitting the computational device to access or attempt to access the vehicle network and/or communication subsystem.
>
> 8. A vehicle, comprising:
> a microprocessor executable device discovery daemon operable to:
> (a) determine that a computational device is connected to or attempting to connect to a network and/or communication subsystem of a vehicle;
> (b) in response, determining whether the computational device is located within a predetermined area and/or zone of the vehicle; and
> (c) applying at least the following rules:
> (C1) when the computational device is located within the predetermined area and/or zone of the vehicle, permitting the computational device to access or attempt to access the vehicle network and/or communication subsystem; and
> (C2) when the computational device is not located within the predetermined area and/or zone of the vehicle, not permitting the computational device to access or attempt to access the vehicle network and/or communication subsystem.

15. A tangible and non-transient computer readable medium including microprocessor executable instructions that, when executed, perform at least the following functions:

(a) determining that a computational device is connected to or attempting to connect to a network and/or communication subsystem of a vehicle;

(b) in response, determining whether the computational device is located within a predetermined area and/or zone of the vehicle; and

(c) applying, by the device discovery daemon, at least the following rules:

(C1) when the computational device is located within the predetermined area and/or zone of the vehicle, permitting the computational device to access or attempt to access the vehicle network and/or communication subsystem; and

(C2) when the computational device is not located within the predetermined area and/or zone of the vehicle, not permitting the computational device to access or attempt to access the vehicle network and/or communication subsystem.

Although the Applicant believes that no fees are due for filing these Comments on Statement of Reasons for Allowance, please charge any fees deemed necessary to Deposit Account No. 19-1970.

Respectfully submitted,

SHERIDAN ROSS P.C.

DWS

By: /Douglas W. Swartz/
Douglas W. Swartz
Registration No. 37739
1560 Broadway, Suite 1200
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(303) 863-9700

Date: March 13, 2015

Electronic Acknowledgement Receipt

EFS ID:	21813604
Application Number:	14253312
International Application Number:	
Confirmation Number:	5072
Title of Invention:	VEHICLE-BASED MULTIMODE DISCOVERY
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	111285
Filer:	Douglas W. Swartz/Theresa Brown
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-585
Receipt Date:	18-MAR-2015
Filing Date:	15-APR-2014
Time Stamp:	19:06:44
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Post Allowance Communication - Incoming	Comments_on_Reasons_for_Allowance.pdf	129480 3100dfc4e69bb1c971c424d6e96d368d47976908	no	3

Warnings:	
Information:	

Total Files Size (in bytes):	129480

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.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/253,312
				Filing Date	April 15, 2014
				First Named Inventor	Christopher P. Ricci
(Use as many sheets as necessary)				Art Unit	3663
				Examiner Name	DUNN, ALEX C
Sheet	1	of	2	Attorney Docket Number	6583-585

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	6607212	08/19/2003	Reimer et al.	
	2	6757593	06/29/2004	Mori et al.	
	3	7020544	03/28/2006	Shinada et al.	
	4	7096431	08/22/2006	Tambata et al.	
	5	7346435	03/18/2008	Amendola et al.	
	6	7796190	09/14/2010	Basso et al.	
	7	7832762	11/16/2010	Breed	
	8	8060631	11/15/2011	Collart et al.	
	9	8334847	12/18/2012	Tomkins	
	10	8346233	01/01/2013	Aaron et al.	
	11	8442389	05/14/2013	Kashima et al.	
	12	8497842	07/30/2013	Tomkins et al.	
	13	8547340	10/01/2013	Sizelove et al.	
	14	8671068	03/11/2014	Harber et al.	
	15	8782262	07/15/2014	Collart et al.	
	16	8812171	08/19/2014	Fillev et al.	
	17	8825031	09/02/2014	Aaron et al.	
	18	8862317	10/14/2014	Shin et al.	
	19	2002/0126876	09/12/2002	Paul et al.	
	20	2008/0082237	04/03/2008	Breed	
	21	2008/0147280	06/19/2008	Breed	
	22	2009/0312998	12/17/2009	Berckmans et al.	
	23	2010/0179712	07/15/2010	Pepitone et al.	
	24	2011/0093846	04/21/2011	Moinzadeh et al.	
	25	2011/0130915	06/02/2011	Wright et al.	
	26	2011/0224865	09/15/2011	Gordon et al.	
	27	2011/0245999	10/06/2011	Kordonowy	
	28	2012/0109451	05/03/2012	Tan	
	29	2013/0103196	04/25/2013	Monceaux et al.	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	14/253,312
				Filing Date	April 15, 2014
				First Named Inventor	Christopher P. Ricci
				Art Unit	3663
				Examiner Name	DUNN, ALEX C
Sheet	2	of	2	Attorney Docket Number	6583-585

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]; Number[4]; Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

NON-PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.[1]	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, page(s), volume-issue number(s), publisher, city and/or country where published.
	30	Official Action for U.S. Patent Application No. 14/253,416, mailed Dec. 01, 2014 (Attorney's Ref. No. 6583-595) 8 pages
	31	Official Action for U.S. Patent Application No. 14/253,406, mailed Dec. 11, 2014 (Attorney's Ref. No. 6583-610) 6 pages

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,416	04/15/2014	Christopher P. Ricci	6583-595	8775

111285 7590 12/01/2014

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
12/01/2014	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):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,416	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) Status Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *4/15/2014*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-7,11-14 and 16-19* is/are rejected.

8)☒ Claim(s) *8-10,15 and 20* is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *4/15/2014* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

Claim Rejections - 35 USC § 102

2. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

4. Claims 1, 3 – 4, 6 – 7, 11, 13 – 14, 16 and 18 – 19 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Tan (20120109451).

5. (Claims 1, 11 and 16): Tan discloses a method for controlling a user interface in a conveyance, comprising: a vehicle control system, including a processor, providing content on the user interface (fig. 2; [0023]); the vehicle control system determining if a user within the conveyance should be prohibited from viewing the content (fig. 2; [0028]); the vehicle control system determining a location of the prohibited user ([0008]); and the vehicle control system modifying a display of the content to prevent viewing by the prohibited user (fig. 8; [0005]; [0038]; [0040]).

6. (Claims 3 - 4, 13 and 18): Tan discloses a method for controlling a user interface in a conveyance, wherein the prohibited user is one of a driver, another passenger, or a child passenger (figs. 2 and 9; [0045]).

7. (Claims 6 - 7, 14 and 19): Tan discloses a method for controlling a user interface in a conveyance, wherein the display is modified by one of at least a portion of the user interface is blacked out when the prohibited user looks at the user interface (figs. 6 – 7; [0037]; [0047 – 0048]).

Claim Rejections - 35 USC § 103

7. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

8. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 2, 5, 12 and 17 are rejected under 35 U.S.C. 103 as being unpatentable over Tan (20120109451).

11. (Claims 2, 12 and 17): Tan teaches enabling the viewing of Internet content on a display or a mobile device ([0031]). It would have been obvious for part of the Internet content to be a movie, as a very common offering of most content providers today.

12. (Claim 5): Tan teaches an occupant sensor as part of his invention (fig. 2; [0046]). It would have been obvious to determine if a passenger is a child, as is very common for other vehicle safety systems such as air bag deployment.

Allowable Subject Matter

13. Claims 8 – 10, 15 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to form 892 for cited references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX C. DUNN whose telephone number is (571)270-5323. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Tarcza can be reached on 26979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ALEX C. DUNN
Examiner, Art Unit 3663

/THOMAS TARCZA/
Supervisory Patent Examiner, Art Unit 3663

Notice of References Cited	Application/Control No. 14/253,416	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-7,020,544 B2	03-2006	Shinada et al.	701/1
*	B	US-7,096,431 B2	08-2006	Tambata et al.	715/834
*	C	US-2009/0079705 A1	03-2009	Sizelove et al.	345/173
*	D	US-7,796,190 B2	09-2010	Basso et al.	348/445
*	E	US-8,060,631 B2	11-2011	Collart et al.	709/229
*	F	US-2012/0109451 A1	05-2012	TAN, Adrian	701/36
*	G	US-8,334,847 B2	12-2012	Tomkins, Steve	345/173
*	H	US-8,346,233 B2	01-2013	Aaron et al.	455/418
*	I	US-2013/0080371 A1	03-2013	Harber et al.	706/50
*	J	US-8,447,598 B2	05-2013	Chutorash et al.	704/231
*	K	US-8,442,389 B2	05-2013	Kashima et al.	386/343
*	L	US-8,497,842 B2	07-2013	Tomkins et al.	345/173
*	M	US-8,547,340 B2	10-2013	Sizelove et al.	345/173

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	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.

Notice of References Cited	Application/Control No. 14/253,416	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-8,671,068 B2	03-2014	Harber et al.	706/50
*	B	US-8,782,262 B2	07-2014	Collart et al.	709/229
*	C	US-8,812,171 B2	08-2014	Filev et al.	701/1
*	D	US-8,825,031 B2	09-2014	Aaron et al.	455/418
*	E	US-8,862,317 B2	10-2014	Shin et al.	701/36
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
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	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.

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.
14/253,406	04/15/2014	Christopher P. Ricci	6583-610	6197

111285 7590 12/11/2014

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
12/11/2014	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):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,406	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) Status Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *4/15/2014*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-7,14-17,19 and 20* is/are rejected.

8)☒ Claim(s) *8-13 and 18* is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, 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.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *4/15/2014* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

Claim Rejections - 35 USC § 102

2. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

4. Claims 1 – 3, 5 - 7, 14 – 17 and 19 - 20 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Breed (20080082237).

5. (Claims 1 – 3, 5, 14 – 16 and 19 - 20): Breed discloses a method and system, comprising: receiving sensor data from one or more vehicle sensors comprising a vehicle skin sensor (fig. 45; [0365]; [0381]); calibrating a vehicle skin baseline condition ([0239]); determining, from the sensor data as against the vehicle skin baseline condition, if a vehicle skin event has occurred ([0255]); and taking action if a vehicle skin event occurs (abstract; fig. 21C; [0035 - 0036]).

6. (Claims 6 - 7 and 17): Breed discloses a method and system, wherein the providing an alert comprises a visual alert, an audio alert, emergency responder alert, and alert to one or more authorized users ([0931]; [0956]; [0965]).

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claim 4 is rejected under 35 U.S.C. 103 as being unpatentable over Breed (20080082237).

9. (Claim 4): Breed teaches storing crash data in network input nodes ([0260]). It would be obvious to store threshold data in authorized user profiles, purely as a programming convenience.

Allowable Subject Matter

10. Claims 8 – 13 and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to form 892 for cited references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX C. DUNN whose telephone number is (571)270-5323. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Tarcza can be reached on 26979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ALEX C. DUNN
Examiner, Art Unit 3663

/THOMAS TARCZA/

Supervisory Patent Examiner, Art Unit 3663

Notice of References Cited	Application/Control No. 14/253,406	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,607,212 B1	08-2003	Reimer et al.	280/735
*	B	US-6,757,593 B2	06-2004	Mori et al.	701/1
*	C	US-2008/0082237 A1	04-2008	Breed, David S.	701/045
*	D	US-2008/0147280 A1	06-2008	Breed, David S.	701/46
*	E	US-2009/0312998 A1	12-2009	Berckmans et al.	703/11
*	F	US-2010/0179712 A1	07-2010	Pepitone et al.	701/14
*	G	US-7,832,762 B2	11-2010	Breed, David S.	280/735
*	H	US-2011/0130915 A1	06-2011	Wright et al.	701/32
*	I	US-2011/0224865 A1	09-2011	Gordon et al.	701/32
*	J	US-2011/0245999 A1	10-2011	Kordonowy, David	701/3
*	K	US-2013/0103196 A1	04-2013	Monceaux et al.	700/253
*	L	US-8,862,317 B2	10-2014	Shin et al.	701/36
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
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	R					
	S					
	T					

NON-PATENT DOCUMENTS

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

Electronic Acknowledgement Receipt

EFS ID:	21816208
Application Number:	14253312
International Application Number:	
Confirmation Number:	5072
Title of Invention:	VEHICLE-BASED MULTIMODE DISCOVERY
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	111285
Filer:	Douglas W. Swartz/Theresa Brown
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-585
Receipt Date:	19-MAR-2015
Filing Date:	15-APR-2014
Time Stamp:	10:28:21
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		6583-585_IDS_04.pdf	137408 dccdfd65d64fb9588cd18ebaf021ed08b76aea65	yes	4

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Transmittal Letter	1	2
	Information Disclosure Statement (IDS) Form (SB08)	3	4

Warnings:					
Information:					
2	Other Reference-Patent/App/Search documents	6583-595_OA_12-01-2014.pdf	264797 514060a7c52df843c72276e51207d7da91b703a5	no	8
Warnings:					
Information:					
3	Other Reference-Patent/App/Search documents	6583-610_OA_12-11-2014.pdf	218125 9d4b62d6c53ada8ace8a506868a8019e2430cab9	no	6
Warnings:					
Information:					
		Total Files Size (in bytes):	620330		

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 3663
Christopher P. Ricci	)	Confirmation No.: 5072
Serial No.: 14/253,312	)	Examiner: DUNN, ALEX C
Filed: April 15, 2014	)	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-585	)	
Entitled: "Vehicle-Based Multimode Discovery"	)	*Electronically Submitted*

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

Dear Commissioner:

The references cited on attached Form PTO/SB08 are being called to the attention of the Examiner.

☒ Copies of the cited non-patent and/or foreign references are enclosed herewith.

☐ Copies of the cited U.S. patents and/or patent applications are enclosed herewith.

☒ Copies of the cited U.S. patents/patent application publications are not enclosed in accordance with 37 C.F.R. § 1.98(a).

☐ Copies of the cited references are not enclosed, in accordance with 37 C.F.R. § 1.98(d), because the references were cited by or submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____ filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120.

☐ To the best of applicants' belief, the pertinence of the foreign-language references is believed to be summarized in the attached English abstracts and/or in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

☐ Examiner's attention is drawn to the following related applications:

Serial No. _____ filed _____ (Attorney Ref. No. _____)

Serial No. _____ filed _____ (Attorney Ref. No. _____)

☐ Other:_____

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence

of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

Respectfully submitted,

SHERIDAN ROSS P.C.

By: /Douglas W. Swartz/
Douglas W. Swartz
Registration No. 37739
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: March 18, 2015

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (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)

111285 7590 12/19/2014
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

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 facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,312	04/15/2014	Christopher P. Ricci	6583-585	5072

TITLE OF INVENTION: VEHICLE-BASED MULTIMODE DISCOVERY

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	03/19/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
DUNN, ALEX C	3663	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/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form 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 Sheridan Ross P.C.
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 has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: Flextronics AP, LLC

(B) RESIDENCE: (CITY and STATE OR COUNTRY): San Jose, CA

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

4a. The following fee(s) are submitted:
- ☒ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☒ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 19-1970 (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
  NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
  NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ☐ Applicant changing to regular undiscounted fee status.
  NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature /Douglas W. Swartz/ Date March 19, 2015

Typed or printed name Douglas W. Swartz Registration No. 37,739

Page 838 of 907 Ford Ex. 1002

Electronic Patent Application Fee Transmittal

Application Number:	14253312
Filing Date:	15-Apr-2014
Title of Invention:	VEHICLE-BASED MULTIMODE DISCOVERY
First Named Inventor/Applicant Name:	Christopher P. Ricci
Filer:	Douglas W. Swartz/Amy Duarte
Attorney Docket Number:	6583-585

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	960	960

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**960**

Electronic Acknowledgement Receipt

EFS ID:	21821401
Application Number:	14253312
International Application Number:	
Confirmation Number:	5072
Title of Invention:	VEHICLE-BASED MULTIMODE DISCOVERY
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	111285
Filer:	Douglas W. Swartz/Amy Duarte
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-585
Receipt Date:	19-MAR-2015
Filing Date:	15-APR-2014
Time Stamp:	14:51:56
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$960
RAM confirmation Number	1161
Deposit Account	191970
Authorized User	

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

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)	Issue-fee-transmittal_6583-585.pdf	93733 4fb0e3b28988699d9c26a98131ddee19d89d0a31	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30821 f603a8113fea2066d3a5aebcff3ba7efbe680b5d	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	124554		

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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 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.

PRINTER RUSH

(PTO ASSISTANCE)

Application:	**14253312**	**Examiner:**	**Dunn**	**GAU:**	**3663**
From:	**Trevon Couch**	**Location:**	**RTFM**	**Creation Date:**	**03/23/2015**

Tracking #: Week Date:

DOC CODE	DOC DATE	MISCELLANEOUS
☐ 1449		☐ Continuing Data
☒ IDS	03/12/2015	☐ Foreign Priority
☐ CLM		☐ Document Legibility
☐ IIFW/FWCLM		☐ Fees
☐ SRFW		☐ Petition (TC)
☐ DRW		☐ Other
☐ OATH		
☐ 312		
☐ SPEC		

[RUSH] Message:

Please respond to the 03/12/15 Ids

Please respond to the 03/18/15 Ids

Thank you,
Tmc

[XRUSH] Response:

Initials: _____

Examiner: PUBS contacts - for DESIGNS: Don Fairchild, 703-756-1566; for ALL OTHER files: Bernadette Queen, 703-756-1565.
NOTE: This form will be included as part of the official USPTO record with the response document coded as XRUSH.
REV: Oct 11

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Alexandria, Virginia 22313-1450
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,312	04/15/2014	Christopher P. Ricci	6583-585	5072

7590 03/25/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER	
DUNN, ALEX C	

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
03/25/2015	ELECTRONIC

NOTICE OF NON-COMPLIANT INFORMATION DISCLOSURE STATEMENT

An Information Disclosure Statement (IDS) filed 3-19-15 in the above-identified application fails to meet the requirements of 37 CFR 1.97(d) for the reason(s) specified below. Accordingly, the IDS will be placed in the file, but the information referred to therein has not been considered.

The IDS is not compliant with 37 CFR 1.97(d) because:

☑ The IDS lacks a statement as specified in 37 CFR 1.97(e).

☐ The IDS lacks the fee set forth in 37 CFR 1.17(p).

☐ The IDS was filed after the issue fee was paid. Applicant may wish to consider filing a petition to withdraw the application from issue under 37 CFR 1.313(c) to have the IDS considered. See MPEP 1308.

571-272-4200 or 1-888-786-0101
Application Assistance Unit
Office of Data Management

To: flexpatents@sheridanross.com,edocket@sheridanross.com,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 111285

Mar 25, 2015 05:30:00 AM

Dear PAIR Customer:

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 111285 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

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Application	Document	Mailroom Date	Attorney Docket No.
14253312	M327	03/25/2015	6583-585

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

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PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

PRINTER RUSH

(PTO ASSISTANCE)

Application:	14253312	**Examiner:**	Dunn	**GAU:**	3663
From:	Trevon Couch	**Location:**	RTFM	**Creation Date:**	03/23/2015

Tracking #: Week Date:

DOC CODE	DOC DATE	MISCELLANEOUS
[ ] 1449		[ ] Continuing Data
[X] IDS	03/12/2015	[ ] Foreign Priority
[ ] CLM		[ ] Document Legibility
[ ] IIFW/FWCLM		[ ] Fees
[ ] SRFW		[ ] Petition (TC)
[ ] DRW		[ ] Other
[ ] OATH		
[ ] 312		
[ ] SPEC		

[RUSH] Message:

Please respond to the 03/12/15 Ids

Please respond to the 03/18/15 Ids

Thank you,
Tmc

[XRUSH] Response:

3/12/2015 and 3/18/2015 IDSs considered.
/ACD/

Initials: _____

Examiner: PUBS contacts - for DESIGNS: Don Fairchild, 703-756-1566; for ALL OTHER files: Bernadette Queen, 703-756-1565.
NOTE: This form will be included as part of the official USPTO record with the response document coded as XRUSH.
REV: Oct 11

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/253,312
				Filing Date	April 15, 2014
				First Named Inventor	Christopher P. Ricci
(Use as many sheets as necessary)				Art Unit	3663
				Examiner Name	DUNN, ALEX C
Sheet	1	of	5	Attorney Docket Number	6583-585

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	5204817	04/20/1993	Yoshida	
	2	5572450	11/05/1996	Worthy	
	3	5986575	11/16/1999	Jones et al.	
	4	6148261	11/14/2000	Obradovich et al.	
	5	6617981	09/09/2003	Basinger	
	6	6892131	05/10/2005	Coffee et al.	
	7	6944533	09/13/2005	Obradovich et al.	
	8	7047129	05/16/2006	Uotani	
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	10	7142696	11/28/2006	Engelsberg et al.	
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	26	2002/0128774	09/12/2002	Takezaki et al.	
	27	2002/0143461	10/03/2002	Burns et al.	
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	29	2003/0004624	01/02/2003	Wilson et al.	
	30	2003/0060937	03/27/2003	Shinada et al.	
	31	2003/0101451	05/29/2003	Bentolila et al.	
	32	2004/0039504	02/26/2004	Coffee et al.	

Examiner Signature	/Alex Dunn/ (03/25/2015)	Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.D./

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2 of 5

Complete if Known	
Application Number	14/253,312
Filing Date	April 15, 2014
First Named Inventor	Christopher P. Ricci
Art Unit	3663
Examiner Name	DUNN, ALEX C
Attorney Docket Number	6583-585

	33	2004/0260470	12/23/2004	Rast	
	34	2005/0038598	02/17/2005	Oesterling et al.	
	35	2005/0097541	05/05/2005	Holland	
	36	2005/0122235	06/09/2005	Teffer et al.	
	37	2005/0159853	07/21/2005	Takahashi et al.	
	38	2005/0197748	09/08/2005	Holst et al.	
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	41	2006/0287807	12/21/2006	Teffer	
	42	2007/0061057	03/15/2007	Huang et al.	
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	49	2009/0006525	01/01/2009	Moore	
	50	2009/0119657	05/07/2009	Link II	
	51	2009/0234578	09/17/2009	Newby et al.	
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	53	2009/0299572	12/03/2009	Fujikawa et al.	
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	58	2010/0145987	06/10/2010	Harper et al.	
	59	2010/0152976	06/17/2010	White et al.	
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	61	2010/0211300	08/19/2010	Jaffe et al.	
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	63	2010/0211441	08/19/2010	Sprigg et al.	
	64	2010/0304640	12/02/2010	Sofman et al.	
	65	2010/0332130	12/30/2010	Shimizu et al.	
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	67	2011/0078024	03/31/2011	Messier et al.	
	68	2011/0112717	05/12/2011	Resner	

Examiner Signature	/Alex Dunn/ (03/25/2015)	Date Considered	

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.D./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/253,312
				Filing Date	April 15, 2014
(Use as many sheets as necessary)				First Named Inventor	Christopher P. Ricci
				Art Unit	3663
				Examiner Name	DUNN, ALEX C
Sheet	3	of	5	Attorney Docket Number	6583-585

	69	2011/0137520	06/09/2011	Rector et al.	
	70	2011/0197187	08/11/2011	Roh	
	71	2011/0246210	10/06/2011	Matsur	
	72	2011/0247013	10/06/2011	Feller et al.	
	73	2011/0301844	12/08/2011	Aono	
	74	2011/0309926	12/22/2011	Eikelenberg et al.	
	75	2011/0313653	12/22/2011	Lindner	
	76	2011/0320089	12/29/2011	Lewis	
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	78	2012/0030512	02/02/2012	Wadhwa et al.	
	79	2012/0046822	02/23/2012	Anderson	
	80	2012/0047530	02/23/2012	Shkedi	
	81	2012/0053888	03/01/2012	Stahlin et al.	
	82	2012/0059789	03/08/2012	Sakai et al.	
	83	2012/0065815	03/15/2012	Hess	
	84	2012/0188876	07/26/2012	Chow et al.	
	85	2012/0204166	08/09/2012	Ichihara	
	86	2012/0323413	12/20/2012	Kedar-Dongarkar et al.	
	87	2012/0327231	12/27/2012	Cochran et al.	
	88	2013/0019252	01/17/2013	Haase et al.	
	89	2013/0030645	01/31/2013	Divine et al.	
	90	2013/0031540	01/31/2013	Throop et al.	
	91	2013/0055096	02/28/2013	Kim et al.	
	92	2013/0066512	03/14/2013	Willard et al.	
	93	2013/0116915	05/09/2013	Ferreira et al.	
	94	2013/0139140	05/30/2013	Rao et al.	
	95	2013/0166096	06/27/2013	Jotanovic	
	96	2013/0166208	06/27/2013	Forstall et al.	
	97	2013/0197796	08/01/2013	Obradovich et al.	
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	101	2013/0226365	08/29/2013	Brozovich	
	102	2013/0261966	10/03/2013	Wang et al.	
	103	2013/0300554	11/14/2013	Braden	
	104	2013/0304371	11/14/2013	Kitatani et al.	

Examiner Signature	/Alex Dunn/ (03/25/2015)	Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.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. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.D./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/253,312
				Filing Date	April 15, 2014
				First Named Inventor	Christopher P. Ricci
(Use as many sheets as necessary)				Art Unit	3663
				Examiner Name	DUNN, ALEX C
Sheet	4	of	5	Attorney Docket Number	6583-585

	105	2013/0345929	12/26/2013	Bowden et al.	
	106	2014/0028542	01/30/2014	Lovitt et al.	
	107	2014/0058672	02/27/2014	Wansley et al.	
	108	2014/0067201	03/06/2014	Visintainer et al.	
	109	2014/0067564	03/06/2014	Yuan	
	110	2014/0109075	04/17/2014	Hoffman et al.	
	111	2014/0244111	08/28/2014	Gross et al.	
	112	2014/0244156	08/28/2014	Magnusson et al.	
	113	2014/0245278	08/28/2014	Zellen	
	114	2014/0245284	08/28/2014	Alrabady et al.	
	115	2014/0278070	09/18/2014	McGavran et al.	
	116	2014/0282470	09/18/2014	Buga et al.	
	117	2014/0292545	10/02/2014	Nemoto	
	118	2015/0007155	01/30/2015	Hoffman et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]; Number[4]; Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	119	KR 2006-0128484	12/14/2006	HYUNDAI AUTONET CO LTD		(with English abstract)

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	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, page(s), volume-issue number(s), publisher, city and/or country where published.
	120	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US2014/034088, mailed Dec. 24, 2014 (Attorney's Ref. No. 6583-549-PCT) 9 pages
	121	Official Action for U.S. Patent Application No. 14/253,836, mailed Feb. 24, 2015 (Attorney's Ref. No. 6583-537) 12 pages
	122	Official Action for U.S. Patent Application No. 14/253,706, mailed Jan. 29, 2015 (Attorney's Ref. No. 6583-550) 8 pages
	123	Official Action for U.S. Patent Application No. 14/253,729, mailed Mar. 06, 2015 (Attorney's Ref. No. 6583-555) 7 pages

Examiner Signature	/Alex Dunn/ (03/25/2015)	Date Considered	

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				Examiner Name	DUNN, ALEX C
Sheet	5	of	5	Attorney Docket Number	6583-585

	124	Official Action for U.S. Patent Application No. 14/253,2014, mailed Jan. 26, 2015 (Attorney's Ref. No. 6583-561) 6 pages
	125	Official Action for U.S. Patent Application No. 14/252,858, mailed Jan. 26, 2015 (Attorney's Ref. No. 6583-565) 8 pages
	126	Official Action for U.S. Patent Application No. 14/253,034, mailed Jan. 26, 2015 (Attorney's Ref. No. 6583-566) 12 pages
	127	Notice of Allowance for U.S. Patent Application No. 14/253,405, mailed Mar. 05, 2015 (Attorney's Ref. No. 6583-567) 5 pages
	128	Official Action for U.S. Patent Application No. 14/252,876, mailed Jan. 30, 2015 (Attorney's Ref. No. 6583-568) 9 pages
	129	Official Action for U.S. Patent Application No. 14/253,334, mailed Jan. 27, 2015 (Attorney's Ref. No. 6583-586) 13 pages
	130	Notice of Allowance for U.S. Patent Application No. 14/253,058, mailed Jan. 28, 2015 (Attorney's Ref. No. 6583-600) 9 pages
	131	Official Action for U.S. Patent Application No. 14/253,022, mailed Feb. 20, 2015 (Attorney's Ref. No. 6583-602) 13 pages
	132	Official Action for U.S. Patent Application No. 14/253,251, mailed Dec. 29, 2014 (Attorney's Ref. No. 6583-607) 8 pages
	133	Official Action for U.S. Patent Application No. 14/253,388, mailed Jan. 30, 2015 (Attorney's Ref. No. 6583-609) 8 pages
	134	Official Action for U.S. Patent Application No. 14/253,727, mailed Jan. 06, 2015 (Attorney's Ref. No. 6583-619) 8 pages
	135	Official Action for U.S. Patent Application No. 14/253,743, mailed Feb. 12, 2015 (Attorney's Ref. No. 6583-626) 8 pages
	136	Official Action for U.S. Patent Application No. 14/253,766, mailed Dec. 12, 2014 (Attorney's Ref. No. 6583-627) 7 pages
	137	Notice of Allowance for U.S. Patent Application No. 14/253,506, mailed Mar. 06, 2015 (Attorney's Ref. No. 6583-637) 5 pages

Examiner Signature	/Alex Dunn/ (03/25/2015)	Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [2] Applicant's unique citation designation number (optional). [3] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [4] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [5] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [6] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [7] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.D./

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,312	04/15/2014	Christopher P. Ricci	6583-585	5072

111285 7590 03/30/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
03/30/2015	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):

flexpatents@sheridanross.com
edocket@sheridanross.com

Corrected Notice of Allowability	Application No. 14/253,312	Applicant(s) RICCI ET AL.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) 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 *3/19/2015*.
   ☐ 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 *1-21*. 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 *see continuation sheet*.

/A. C. D./ Examiner, Art Unit 3663	/THOMAS TARCZA/ Supervisory Patent Examiner, Art Unit 3663

This Corrected NOA is only to consider IDSs submitted on 3/12/2015 and 3/18/2015 after NOA on 12/19/2014.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/253,312
				Filing Date	April 15, 2014
(Use as many sheets as necessary)				First Named Inventor	Christopher P. Ricci
				Art Unit	3663
				Examiner Name	DUNN, ALEX C
Sheet	1	of	1	Attorney Docket Number	6583-585

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	2010/0106344	04/29/2010	Edwards et al.	
	2	2011/0210867	09/01/2011	Benedikt	
	3	2013/0024060	01/24/2013	Sukkarie et al.	
	4	2013/0059607	03/07/2013	Herz et al.	
	5	2013/0204455	08/08/2013	Chia et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]; Number[4]; Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

NON-PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.[1]	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, page(s), volume-issue number(s), publisher, city and/or country where published.
	6	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US14/034194, mailed Dec. 31, 2014 (Attorney's Ref. No. 6583-585-PCT) 11 pages

Examiner Signature	/Alex Dunn/ (03/25/2015)	Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

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From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 111285

Mar 30, 2015 05:23:15 AM

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Application	Document	Mailroom Date	Attorney Docket No.
14253312	1449	03/30/2015	6583-585
	NOA	03/30/2015	6583-585
	1449	03/30/2015	6583-585

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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,312	04/28/2015	9020697	6583-585	5072

111285 7590 04/08/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

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

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

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

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.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 Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

Christopher P. Ricci, Saratoga, CA;
Flextronics AP, LLC, San Jose, CA, Assignee (with 37 CFR 1.172 Interest);
Octavian Chincisan, Richmond Hill, CANADA;
Alisher I. Yusupov, Richmond Hill, CANADA;

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Application	Document	Mailroom Date	Attorney Docket No.
14253312	ISSUE.NTF	04/08/2015	6583-585

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PATENT - POWER OF ATTORNEY OR REVOCATION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS

Patent Number	9,020,697
Issue Date	April 28, 2015
First Named Inventor	Christopher P. Ricci
Title	VEHICLE-BASED MULTIMODE DISCOVERY
Attorney Docket No.	51263-90208

I hereby revoke all previous powers of attorney given in the above-identified patent.

☐ A Power of Attorney is submitted herewith.

OR

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I am the:

☒ Applicant.

OR

☐ Patent owner.

Statement under 37 CFR 3.73(c) (Form PTO/AIA/96) submitted herewith or filed on _____.

SIGNATURE of Applicant or Patent Owner

Signature		Date	
Name	Gregg S. Hershenson	Telephone	
Title and Company	CEO - AutoConnect Holdings LLC		

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EFS ID:	29615995
Application Number:	14253312
International Application Number:	
Confirmation Number:	5072
Title of Invention:	VEHICLE-BASED MULTIMODE DISCOVERY
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	111285
Filer:	Robert G. Crouch/Lori Gerow
Filer Authorized By:	Robert G. Crouch
Attorney Docket Number:	8283-585
Receipt Date:	27-JUN-2017
Filing Date:	15-APR-2014
Time Stamp:	10:39:03
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	POA_Signed_51263-90208.pdf	262818 1ec771ea4d4f693611cfa95332aec8c0ed94466c	no	2

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/253,312	04/15/2014	Christopher P. Ricci	8283-585

CONFIRMATION NO. 5072

MISCELLANEOUS NOTICE

111285
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202



Date Mailed: 07/07/2017

A communication which cannot be delivered in electronic form has been mailed to the applicant.

PTO/AIA/81A (02-15)
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PATENT - POWER OF ATTORNEY OR REVOCATION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS

Patent Number	9,020,697
Issue Date	April 28, 2015
First Named Inventor	Christopher P. Ricci
Title	VEHICLE-BASED MULTIMODE DISCOVERY
Attorney Docket No.	51263-90208

I hereby revoke all previous powers of attorney given in the above-identified patent.

☐ A Power of Attorney is submitted herewith.

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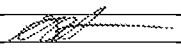
☐ Applicant.

OR

☒ Patent owner.

Statement under 37 CFR 3.73(c) (Form PTO/AIA/96) submitted herewith or filed on _____.

SIGNATURE of Applicant or Patent Owner

Signature		Date	
Name	Gregg S. Hershenson	Telephone	
Title and Company	CEO - AutoConnect Holdings LLC		

NOTE: Signatures of all the applicants or patent owners of the entire interest or their representative(s) are required. If more than one signature is required, submit multiple forms, check the box below, and identify the total number of forms submitted in the blank below.

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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.

Electronic Acknowledgement Receipt

EFS ID:	29703295
Application Number:	14253312
International Application Number:	
Confirmation Number:	5072
Title of Invention:	VEHICLE-BASED MULTIMODE DISCOVERY
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	111285
Filer:	Robert G. Crouch/Lori Gerow
Filer Authorized By:	Robert G. Crouch
Attorney Docket Number:	8283-585
Receipt Date:	06-JUL-2017
Filing Date:	15-APR-2014
Time Stamp:	14:20:43
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Assignee showing of ownership per 37 CFR 3.73	373c_aia0096_51263-90208.pdf	121084 9b350d1126ce9f5bb24588191868f28f11b43e57	no	3

Warnings:

Information:					
2	Power of Attorney	Corrected_POA_51263-90208.pdf	168356 03ae20d415b3d10237fbb96913ef38781adc2c07	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	289440	

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.

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. 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 displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: AUTOCONNECT HOLDINGS LLC

Application No./Patent No.: 9,020,697 Filed/Issue Date: April 28, 2015

Titled: VEHICLE-BASED MULTIMODE DISCOVERY

AUTOCONNECT HOLDINGS LLC, a CORPORATION

(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: CHRISTOPHER P. RICCI To: FLEXTRONICS AP, LLC

   The document was recorded in the United States Patent and Trademark Office at
   Reel 033226, Frame 0643, or for which a copy thereof is attached.

2. From: ALISHER YUSUPOV, OCTAVIAN CHINCISN To: FLEXTRONICS AP, LLC

   The document was recorded in the United States Patent and Trademark Office at
   Reel 033752, Frame 0605, or for which a copy thereof is attached.

This collection of information is required by 37 CFR 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 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. 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.

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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STATEMENT UNDER 37 CFR 3.73(c)

3. From: FLEXTRONICS AP, LLC To: AUTOCONNECT HOLDINGS LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 036503, Frame 0062, or for which a copy thereof is attached.

4. 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.

5. 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.

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.

/ROBERT G. CROUCH/	July 6, 2017
Signature	Date
ROBERT G. CROUCH	34,806
Printed or Typed Name	Title or Registration Number

Privacy Act Statement

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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.
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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

To: edocket@sheridanross.com,flexpatents-sr@sheridanross.com,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 111285

Jul 07, 2017 03:27:18 AM

Dear PAIR Customer:

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 111285 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:
The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
14253312	PEFN	07/07/2017	8283-585

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/253,312	04/15/2014	Christopher P. Ricci	8283-585

CONFIRMATION NO. 5072

OC000000092555664

111285
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

Cc: MARSH, FISCHMANN & BREYFOGLE LLP
8055 EAST TUFTS AVENUE
SUITE 450
DENVER, CO 80237

Date Mailed: 07/05/2017

DENIAL OF REQUEST FOR POWER OF ATTORNEY

The request for Power of Attorney filed **06/27/17** is acknowledged. However, the request cannot be granted at this time for the reason stated below.

- ☐ The Power of Attorney you provided did not comply with the new Power of Attorney rules that became effective on June 25, 2004. See 37 CFR 1.32.
- ☐ The revocation is not signed by the applicant, the assignee of the entire interest, or one particular principal attorney having the authority to revoke.
- ☒ The Power of Attorney is from an assignee and the Certificate required by 37 CFR 3.73(c) has not been received.
- ☐ The person signing for the assignee has omitted their empowerment to sign on behalf of the assignee.
- ☐ The inventor(s) is without authority to appoint attorneys since the assignee has intervened as provided by 37 CFR 3.71.
- ☐ The signature(s) of _____, a co-inventor in this application, has been omitted. The Power of Attorney will be entered upon receipt of confirmation signed by said co-inventor(s).
- ☐ The person(s) appointed in the Power of Attorney is not registered to practice before the U.S. Patent and Trademark Office.
- ☐ Only one Customer Number can be designated for the Power of Attorney in an application. The Customer Number that was captured is the first Customer Number provided on the Power of Attorney document.

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

- ☐ A request under 37 CFR 1.48 to add an inventor was granted in this application, however, no power of attorney consistent with the power of attorney granted by the originally named inventive entity has been received. Thus, the addition of the inventor has resulted in the loss of power of attorney in the application. See 37 CFR 1.32(e).

- ☐ The power of attorney has not been accepted because the party who is giving power of attorney has not been identified. Power of attorney may only be signed by the applicant for patent (37 CFR 1.42) or the patent owner. A patent owner who was not the applicant must appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. See 37 CFR 1.32(b)(4).

- ☐ The power of attorney from the inventors has not been accepted because it is a copy from a prior national application for which benefit is claimed and the continuing application names an inventor who was not named as an inventor in the prior application.

- ☐ The power of attorney from the inventors has not been accepted because the power of attorney must be signed by the applicant for patent. See 37 CFR 1.32(b)(4).

- ☐ Any request to correct or update the name of the applicant must include an application data sheet (ADS) in compliance with 37 CFR 1.76 specifying the correct or updated name of the applicant in the applicant information section. Any request to change the applicant after an original applicant has been specified under 37 CFR 1.46(b) must include a new ADS in compliance with 37 CFR 1.76 specifying the applicant in the applicant information section and comply with 37 CFR 3.71 and 3.73. See 37 CFR 1.46(c).

Any inquiries regarding this notice should be directed to the Application Assistance Unit at 571-272-4200.

Application Assistance Unit
571-272-4200

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/253,312	04/15/2014	Christopher P. Ricci	8283-585

CONFIRMATION NO. 5072

POWER OF ATTORNEY NOTICE

111285
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

OC000000104152750

Date Mailed: 12/03/2018

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 07/06/2017.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(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**.

/qtran/

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/253,312	04/15/2014	Christopher P. Ricci	51263-90208

CONFIRMATION NO. 5072

25231
Marsh Fischmann & Breyfogle LLP
8055 East Tufts Avenue, Suite 450
Denver, CO 80237

POA ACCEPTANCE LETTER

OC000000104152765

Date Mailed: 12/03/2018

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 07/06/2017.

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**.

/qtran/

To: ptomail@mfblaw.com,ptomail@mfblaw.com,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 25231

Dec 03, 2018 03:48:40 AM

Dear PAIR Customer:

Marsh Fischmann & Breyfogle LLP
8055 East Tufts Avenue, Suite 450
Denver, CO 80237
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 25231 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:
The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
14253312	N570	12/03/2018	51263-90208
	N570	12/03/2018	51263-90208

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

PTO/AIA/80 (07-12)
Approved for use through 11/30/2014. OMB 0651-0035
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 displays a valid OMB control number.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

☒ Practitioners associated with Customer Number: 153965

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

☒ The address associated with Customer Number: 153965

OR

☐

Firm or Individual Name			
Address			
City		State	Zip
Country			
Telephone		Email	

Assignee Name and Address: AutoConnect Holdings LLC
75 High Road
Newbury, MA 01951

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be Filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of The practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	2-28-2019
Name	Gregg Hershenson	Telephone	978.462.1287
Title	CEO		

This collection of information is required by 37 CFR 1.31, 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.**

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Privacy Act Statement

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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.

Electronic Acknowledgement Receipt

EFS ID:	35738383
Application Number:	14253312
International Application Number:	
Confirmation Number:	5072
Title of Invention:	VEHICLE-BASED MULTIMODE DISCOVERY
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	25231
Filer:	Unisha Patel
Filer Authorized By:	
Attorney Docket Number:	51263-90208
Receipt Date:	16-APR-2019
Filing Date:	15-APR-2014
Time Stamp:	12:58:01
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	POASigned.pdf	74574 10a88179b84bc774445edb87cb7742f6cbad0cc4	no	2

Warnings:

Information:	
Total Files Size (in bytes):	74574

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 NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY.DOCKET NO./TITLE	REQUEST ID
14/253,312	04/15/2014	Flextronics AP, LLC	51263-90208	85966

Acknowledgement of Change to Small Entity Status

The entity status change request below filed through Private PAIR on 04/18/2019 has been accepted.

CERTIFICATIONS:

Change of Entity Status:

X Applicant asserting small entity status. See 37 CFR 1.27.

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

This portion must be completed by the signatory or signatories making the entity status change in accordance with 37 CFR 1.4(d)(4).

Signature:	/Unisha Patel/
Name:	Unisha Patel
Registration Number:	72449

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/253,312	04/15/2014	Christopher P. Ricci	51263-90208

CONFIRMATION NO. 5072

POWER OF ATTORNEY NOTICE

25231
Marsh Fischmann & Breyfogle LLP
8055 East Tufts Avenue, Suite 450
Denver, CO 80237

OC000000107523835

Date Mailed: 04/22/2019

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/16/2019.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(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**.

/ltaba/

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/253,312	04/15/2014	Christopher P. Ricci	51263-90208

CONFIRMATION NO. 5072

153965
Patent Ventures, LLC
700 Uccelli Drive
7204
Redwood City, CA 94063

POA ACCEPTANCE LETTER

OC000000107523844

Date Mailed: 04/22/2019

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/16/2019.

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**.

/ltaba/

To: mo@patvent.com,unisha@patvent.com,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 153965

Apr 22, 2019 03:34:10 AM

Dear PAIR Customer:

Patent Ventures, LLC
700 Uccelli Drive
7204
Redwood City, CA 94063
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 153965 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:
The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
14253312	N570	04/22/2019	51263-90208
	N570	04/22/2019	51263-90208

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

PTO/AIA/96 (11-23)
Approved for use through 05/31/2024. OMB 0651-0031
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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.

STATEMENT UNDER 37 CFR 3.73(c)

First Named Inventor/Patent Owner: AutoConnect Holdings LLC

Application No./Patent No.: 9,020,697 Filed/Issue Date: 2015-04-28

Titled: VEHICLE-BASED MULTIMODE DISCOVERY

AutoConnect Holdings 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: Christopher P. Ricci To: Flextronics AP, LLC

   The document was recorded in the United States Patent and Trademark Office at
   Reel 033226, Frame 0643, or for which a copy thereof is attached*.

2. From: Alisher I. Yusupov and Octavian Chincisan To: Flextronics AP, LLC

   The document was recorded in the United States Patent and Trademark Office at
   Reel 033752, Frame 0605, or for which a copy thereof is attached*.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0031. Public burden for this form is estimated to average 12 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

PTO/AIA/96 (11-23)
Approved for use through 05/31/2024. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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STATEMENT UNDER 37 CFR 3.73(c)

3. From: Flextronics AP, LLC To: AutoConnect Holdings LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 036503, Frame 0062, or for which a copy thereof is attached*.

4. 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*.

5. 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*.

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.

/Robert A. Conley/	2014-02-13
Signature	Date
Robert A. Conley	55846
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. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013). https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

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

1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;

2) a federal, state, local, or international agency, in response to its request;

3) a contractor of the USPTO having need for the information in order to perform a contract;

4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;

5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;

6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;

7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;

8) 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));

9) the Office of Personnel Management (OPM) for personnel research purposes; and

10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

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

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
14/253,312	**02/13/2024 03:00:00 PM Z ET**	**51263-90208**

Title of Invention

VEHICLE-BASED MULTIMODE DISCOVERY

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	9020697
CONFIRMATION #	5072	FILED BY	Robert Conley
PATENT CENTER #	64307200	FILING DATE	04/15/2014
CUSTOMER #	153965	FIRST NAMED INVENTOR	Christopher P. Ricci
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
14253312_POA.pdf	2	Power of Attorney	436 KB
14253312_373c_Statement.pdf	3	Assignee showing of ownership per 37 CFR 3.73	246 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
14253312_POA.pdf	A46E42330FFC648D68EFCC1E304F373B6100A2CAFBD62E8B063AA0A11BC5968223DCB04C0783CBC52095719AB3936186792C0982D4FB6553920C8E45D5F0E584
14253312_373c_Statement.pdf	7E5963BB3960E43C690E9B8120D5E5597F32B28E3B8B1E358737814651CAC1B9A9D45BA70ABD6040D4782CAC593038CF0

DAC2898753047FA23809ECE09A25E38

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PTO/AIA/82A (07-13)
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TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

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

Application Number	14/253,312
Filing Date	April 15, 2014
First Named Inventor	Christopher P. Ricci
Title	VEHICLE-BASED MULTIMODE DISCOVERY
Art Unit	3663
Examiner Name	Alex C. Dunn
Attorney Docket Number	51263-90208

SIGNATURE of Applicant or Patent Practitioner

Signature	/Robert A. Conley/	Date (Optional)	2024-02-13
Name	Robert A. Conley	Registration Number	55,846
Title (if Applicant is a juristic entity)	Attorney for Applicant		
Applicant Name (if Applicant is a juristic entity)	AutoConnect Holdings LLC		

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

☑ *Total of 1 forms are submitted.

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

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

PTO/AIA/82B (07-13)
Approved for use through 03/31/2021. OMB 0651-0035
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POWER OF ATTORNEY BY APPLICANT

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

Application Number	Filing Date

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

☑ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 192827

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):

AutoConnect Holdings 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)	6/7/2023
Name	Gregg Hendrickson		
Title	Chief Executive Officer		

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 1.031, 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.

PTO/AIA/80 (07-17)
Approved for use through 09/30/2025. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it displays a valid OMB control number

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

[X] Practitioners associated with Customer Number: 192827

OR

[ ] Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

[X] The address associated with Customer Number: 192827

OR

[ ]

Firm or individual name		
Address		
City	State	Zip
Country		
Telephone	Email	

Assignee name and address: AutoConnect Holdings LLC
75 High Road
Newbury, MA 01951

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of the practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee.

Signature	Date 2/13/2024
Name Gregg Hershenson	Telephone 508.847.0982
Title Chief Executive Officer	

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0035. Public burden for this form is estimated to average 18 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.** If filing this completed form by mail, 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.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
14/253,312	**02/13/2024 08:29:53 PM Z ET**	**51263-90208**

Title of Invention

VEHICLE-BASED MULTIMODE DISCOVERY

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	9020697
CONFIRMATION #	5072	FILED BY	Robert Conley
PATENT CENTER #	64312935	FILING DATE	04/15/2014
CUSTOMER #	153965	FIRST NAMED INVENTOR	Christopher P. Ricci
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
14253312_POA_Form80.pdf	1	Power of Attorney	5089 KB
14253312_373c_Statement.pdf	3	Assignee showing of ownership per 37 CFR 3.73	246 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
14253312_POA_Form80.pdf	2C8A7B5A8D7861153629E5CDEA10B7EE7D7248D999CD47CC173F7DF48A7ABDC288E9B7CFA57D26BD2F218D19B254A2379B634B989747F85C3C78B775B2067AA1
14253312_373c_Statement.pdf	7E5963BB3960E43C690E9B8120D5E5597F32B28E3B8B1E358737814651CAC1B9A9D45BA70ABD6040D4782CAC593038CF0

DAC2898753047FA23809ECE09A25E38

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PTO/AIA/96 (11-23)
Approved for use through 05/31/2024. 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 displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)

First Named Inventor/Patent Owner: AutoConnect Holdings LLC

Application No./Patent No.: 9,020,697 Filed/Issue Date: 2015-04-28

Titled: VEHICLE-BASED MULTIMODE DISCOVERY

AutoConnect Holdings 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: Christopher P. Ricci To: Flextronics AP, LLC

   The document was recorded in the United States Patent and Trademark Office at
   Reel 033226, Frame 0643, or for which a copy thereof is attached*.

2. From: Alisher I. Yusupov and Octavian Chincisan To: Flextronics AP, LLC

   The document was recorded in the United States Patent and Trademark Office at
   Reel 033752, Frame 0605, or for which a copy thereof is attached*.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0031. Public burden for this form is estimated to average 12 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. 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.

PTO/AIA/96 (11-23)
Approved for use through 05/31/2024. 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 displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)

3. From: Flextronics AP, LLC To: AutoConnect Holdings LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 036503, Frame 0062, or for which a copy thereof is attached*.

4. 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*.

5. 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*.

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.

/Robert A. Conley/	2014-02-13
Signature	Date
Robert A. Conley	55846
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. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013). https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

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

1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;

2) a federal, state, local, or international agency, in response to its request;

3) a contractor of the USPTO having need for the information in order to perform a contract;

4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;

5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;

6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;

7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;

8) 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));

9) the Office of Personnel Management (OPM) for personnel research purposes; and

10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

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

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

PETITON TO ACCEPT UNINTENTIONAL DELAYED PAYMENT OF MAINTENANCE FEE (37 CFR 1.378(b))

APPLICATION #	FIRST NAMED INVENTOR	ATTORNEY DOCKET #	FILING DATE
14253312	Christopher Ricci	51263-90208	04/15/2014

Title of Invention

VEHICLE-BASED MULTIMODE DISCOVERY

In re Patent #: 9020697
Issue date: 04/28/2015}

The delay in the payment of the maintenance fee to the above-identified patent was unintentional.

PETITIONER(S) REQUEST THAT THE DELAYED PAYMENT OF THE MAINTENANCE FEE BE ACCEPTED AND THE PATENT REINSTATED

(1) Petition fee under 37 CFR 1.17(m) is attached

Applicant claims the following entity status
Small

(2) Statement
The delay in the payment of the maintenance fee to this patent was unintentional

- Petitioner(s) is reminded that a delay resulting from a deliberately chosen course of action or a change in circumstance is not an unintentional delay.

- Petitioner(s) is further reminded that a person seeking reinstatement of an expired patent should not make a statement that the delay in payment of the maintenance fee was unintentional unless the entire delay was unintentional, including the period from discovery that the maintenance fee was not timely paid until payment of the maintenance fee. For example, a statement that the delay in payment of the maintenance fee was unintentional would not be proper when the patentee becomes aware of an unintentional failure to timely pay the maintenance fee and then intentionally delays filing a petition for reinstatement of the patent under 37 CFR 1.378. See MPEP 2590.

NOTE: Where the petition under 37 CFR 1.378 is filed more than two years after the date the patent expired for nonpayment of the maintenance fee, the United States Patent and Trademark Office requires an additional explanation of the circumstances

surrounding the delay that establishes the entire delay was unintentional. This requirement is in addition to the requirement to provide a statement that the entire delay was unintentional. See Clarification of the Practice for Requiring Additional Information in Petitions Filed in Patent Applications and Patents Based on Unintentional Delay, 85 FR 12222 (March 2, 2020). See MPEP 711.03(c)(II)(C)-(F) for additional guidance on the information required to establish that the entire delay was unintentional.

Signature

I certify, in accordance with 37 CFR 1.4(d)(4) that I am:

Signature	Name	Registration #
/Robert A. Conley/	Robert Conley	55846

PETAUTO SB64.0

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
14/253,312	**02/16/2024 11:09:47 AM Z ET**	**51263-90208**

Title of Invention

VEHICLE-BASED MULTIMODE DISCOVERY

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	9020697
CONFIRMATION #	5072	FILED BY	Robert Conley
PATENT CENTER #	64347133	FILING DATE	04/15/2014
CUSTOMER #	153965	FIRST NAMED INVENTOR	Christopher P. Ricci
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
petition-request.pdf	2	ePetition Request Form	27 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
petition-request.pdf	2797982C74CCAF806A080A601CC940711A7BA1455E8865C44 6AE42F2A549C5264F442C0462CE6B55605284D0365875D5BC 2000DCD6E126D3430D1237AB744DC0

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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.

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
14/253,312	**02/16/2024 11:09:47 AM Z ET**	**51263-90208**

Title of Invention

VEHICLE-BASED MULTIMODE DISCOVERY

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	9020697
CONFIRMATION #	5072	FILED BY	Robert Conley
PATENT CENTER #	64347133	AUTHORIZED BY	-
CUSTOMER #	153965	FILING DATE	04/15/2014
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Christopher P. Ricci

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 605022	**E20242FB10088411**	**Robert Conley**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2552	MAINTENANCE FEE DUE AT 7.5 YEARS	1504.00	1	1504.00
2558	PETITION FOR THE DELAYED PAYMENT OF THE FEE FOR MAINTAINING A PATENT IN FORCE	840.00	1	840.00
			TOTAL AMOUNT:	**$2,344.00**

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.

New International Application Filed with the USPTO as a Receiving Office

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United States Patent and Trademark Office
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Alexandria, VA 22313 - 1450
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GRANT LETTER

APPLICATION #	DECISION DATE	DECISION ON PETITION #	ATTORNEY DOCKET NUMBER
14/253,312	02/16/2024	UNDER CFR 1.378(b)	51263-90208

Title of Invention

VEHICLE-BASED MULTIMODE DISCOVERY

In re Patent # **9020697**
Issue date: **04/28/2015**
Filing date: **04/15/2014**

This is an electronic decision on the petition under 37 CFR 1.378(b), filed February 16, 2024 to accept unintentional delayed payment of the 7.5 year maintenance fee for the above-identified patent.

The petition is **GRANTED.**

The maintenance fee is accepted, and the above-identified patent reinstated as of February 16, 2024. This decision also constitutes notice that the fee has been accepted. An electronic copy of the petition and this decision has been created as an entry in the Image File Wrapper. Nevertheless, petitions should print and retain an independent copy.

Telephone inquiries concerning this decision should be directed to the Patent Electronic Business Center (EBC) at 866-217-9197.

Office of Petitions

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/253,312	04/15/2014	Christopher P. Ricci	51263-90208

CONFIRMATION NO. 5072

192827
Avantech Law, LLP
80 S 8th St, Suite 900
Minneapolis, MN 55402

POA ACCEPTANCE LETTER

OC000000068658068

Date Mailed: 02/23/2024

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/13/2024.

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**.

/dmbaines/

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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/253,312	04/15/2014	Christopher P. Ricci	51263-90208

CONFIRMATION NO. 5072

153965
Patent Ventures, LLC
555 Madison Ave
5th Floor
New York, NY 10022

POWER OF ATTORNEY NOTICE

OC000000068658038

Date Mailed: 02/23/2024

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/13/2024.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(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**.

/dmbaines/

TO: USPTO@avantechlaw.com,conley@avantechlaw.com
FROM: noreply@uspto.gov
CC: patentcenter_eofficeaction@uspto.gov
SUBJECT: USPTO: Patent Electronic System - Correspondence Notification for Customer Number 192827

Fri Feb 23 05:35:30 EST 2024

Dear Patent Center Customer:

Correspondence Address:

Avantech Law, LLP
80 S 8th St, Suite 900
Minneapolis,MINNESOTA,55402
UNITED STATES

This is a courtesy notification regarding the following USPTO patent application(s) associated with your Customer Number, 192827, that have new outgoing correspondence. This correspondence is now available for viewing in Patent Center.

The official date of notification of the outgoing correspondence will be indicated on the form (e.g., PTOL-90) accompanying the correspondence.

Disclaimer:
The list of documents shown below are provided as a courtesy and is not part of the official file wrapper. The content of the images shown in the Image File Wrapper is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
14253312	N570	02/23/2024	51263-90208
14253312	N570	02/23/2024	51263-90208

To view your correspondence online, please sign in to Patent Center and then select Workbench/View correspondence. To update your email address(es), select Manage/Manage customer numbers.

If you have any questions, please contact the Patent Electronic Business Center (EBC) at ebc@uspto.gov or 866-217-9197 Monday – Friday, 6 a.m. to midnight ET.

Please do not reply to this email as it was sent from an unmonitored mailbox.

Sincerely,

The Patent Center Team