PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: THAINE LENNOX-GENTLE
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)* 22 AUG 2014
Applicant's or agent's file reference 6583-543-PCT	**FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No. PCT/US2014/034092	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 6583-543-PCT	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US2014/034092	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 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. 2

☒ 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/US2014/034092

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - B60R 22/00 (2014.01)
USPC - 701/49
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) - B60R 22/00; E05F 15/00; G05D 1/00, 3/00 (2014.01)
USPC - 701/1, 36, 45, 49

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
CPC - B60N 2/0248, 2/0244, 2/0232, 2/0252 (2014.02)

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2005/0261815 A1 (COWELCHUK et al) 24 November 2005 (24.11.2005) entire document	1-15
A	US 2010/0036560 A1 (WRIGHT et al) 11 February 2010 (11.02.2010) entire document	1-15
A	US 2010/0087987 A1 (HUANG et al) 08 April 2010 (08.04.2010) entire document	1-15
A	US 2012/0053793 A1 (SALA et al) 01 March 2012 (01.03.2012) 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
31 July 2014	22 AUG 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)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: THAINE LENNOX-GENTLE
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)*	22 AUG 2014
Applicant's or agent's file reference 6583-543-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2014/034092	15 April 2014	15 April 2013

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - B60R 22/00 (2014.01)
USPC - 701/49

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	31 July 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/US2014/034092

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/US2014/034092

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 and 12	YES
	Claims	1-2, 4-11 and 13-15	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 1-2, 4-11 and 13-15 lack novelty under PCT Article 33(2) as being anticipated by Cowelchuk et al. (US 2005/0261815 A1; hereinafter Cowelchuk).

Regarding claim 1, Cowelchuk discloses a method, comprising: receiving information associated with a user (Paragraph [0012]-[0013] and [0029]; The invention is to a system of receiving and storing custom user vehicle settings into one of multiple user profiles); determining whether at least some of the received information qualifies as user profile data (Paragraphs [0022]-[0023] and [0028]-[0029]; the system is equipped with various sensors for sensing driving conditions. Some of this sensed information such as mirror and seat positions can be stored in user profile settings); and storing, based at least partially on determining that the at least some of the received information qualifies as user profile data, the user profile data in a profile data memory associated with the user (Paragraph [0028]-[0030]; some of the sensed data can be saved in user profile settings. With the information being stored and associated with a driver number (e.g. "Driver 1" through "Driver ") through a memory preset button).

Regarding claim 2. Cowelchuk discloses the method of claim 1, wherein the user profile data includes at least one of vehicle settings, user preferences, user speech, data input at a device associated with a vehicle, and stored information (Paragraphs [0015] and [0030]; the vehicle settings that can be stored and customized include mirror and seat positions, audio data, voice matching and temperature controls).

Regarding claim 4. Cowelchuk discloses the method of claim 1, further comprising: receiving a request to access the user profile data associated with the user from the profile data memory (Paragraphs [0028]-[0030]; users can depress a memory preset button associated with a driver number to change, reset or delete any settings, with the settings being stored in a driver number (e.g., Driver 1 through Driver n)); determining whether the request is made by an authorized source (Paragraph [0030]; the system can use voice, fingerprint, or retinal matching or other biometric identification technology to associate a user profile with a particular user); and providing access to the user profile data stored in the profile data memory when the request is made by the authorized source (Paragraph [0030]; the system can use voice, fingerprint, or retinal matching or other biometric identification technology to associate a user profile with a particular user. An authorized user can change, reset, delete or recall customizable settings as previously mentioned).

Regarding claim 5. Cowelchuk discloses the method of claim 1, further comprising: receiving modifying information associated with the user (Paragraphs [0028]-[0030]; users can depress a memory preset button associated with a driver number to change, reset or delete any settings, with the settings being stored in a driver number (e.g., Driver 1 through Driver n)); modifying the user profile data in the profile data memory associated with the user to include the modifying information associated with the user (Paragraphs [0028]-[0030]; users can depress a memory preset button associated with a driver number to change, reset or delete any settings, with the settings being stored in a driver number (e.g., Driver 1 through Driver n)); and storing the modified user profile data in the profile data memory associated with the user (Paragraphs [0028]-[0030]; users can depress a memory preset button associated with a driver number to change, reset or delete any settings, with the settings being stored in a driver number (e.g., Driver 1 through Driver n)).

Regarding claim 6. Cowelchuk discloses the method of claim 5, wherein modifying the user profile data includes at least one of overwriting data, deleting data, and adding data (Paragraphs [0028]-[0030]; users can depress a memory preset button associated with a driver number to change, reset or delete any settings, with the settings being stored in a driver number (e.g., Driver 1 through Driver n)).

Regarding claim 7. Cowelchuk discloses the method of claim 1, wherein prior to storing the user profile data the method further comprises: determining at least one category associated with information in the user profile data (Paragraphs [0011]-[0012]; the settings categories include driver seat positions, audio and video presets, rearview and side mirror positions, temperature control settings, seat belt height, steering wheel positions, accelerator/brake positions, light colors and intensity, airbag activation and many other categories of settings.); and selecting, based at least partially on the determined at least one category, a specific data field in the profile data memory for storing the user profile data, wherein the specific data field corresponds to the determined at least one category (Paragraphs [0011]-[0012] and Paragraph [0029]; the system has a control unit interface which stores one or more of the various settings for the one or more above mentioned parameters (categories) into a user profile).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2014/034092

Supplemental Box

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

Regarding claim 8. Cowelchuk discloses the method of claim 1, further comprising: recognizing the user via one or more sensors associated with a vehicle (Paragraph [0030]; users can be recognized through voice, fingerprint, retinal, or other biometric sensors as well as through a key fob sensors or simply through a button sensor); and retrieving, from the profile data memory and based on the recognition, information in the user profile data associated with the user (Paragraphs [0030] and [0035]; the system can use voice, fingerprint, or retinal matching or other biometric identification technology to associate a user profile with a particular user. An authorized user can change, reset, delete or recall customizable settings stored in memory as previously mentioned).

Regarding claim 9. Cowelchuk discloses the method of claim 8, further comprising: configuring at least one setting of the vehicle based on the information retrieved from the profile data memory (Paragraph [0030]; through the driver identification device a user can depress a memory preset button to alert the control unit as to which settings the customizable parameters are to be recalled).

Regarding claim 10. Cowelchuk discloses a non-transitory computer readable medium having instructions stored thereon that, when executed by a processor (Paragraphs [0017] and [0033]; the system has processing means which are configured to read data from data sources (memory) or input devices to accomplish the invention means), perform a method comprising: receiving information associated with a user (Paragraph [0012]-[0013] and [0029]; The invention is to a system of receiving and storing custom user vehicle settings into one of multiple user profiles); determining whether at least some of the received information qualifies as user profile data (Paragraphs [0022]-[0023] and [0028]-[0029]; the system is equipped with various sensors for sensing driving conditions. Some of this sensed information such as mirror and seat positions can be stored in user profile settings); and storing, based at least partially on determining that the at least some of the received information qualifies as user profile data, the user profile data in a profile data memory associated with the user (Paragraph [0028]-[0030]; some of the sensed data can be saved in user profile settings. With the information being stored and associated with a driver number (e.g. "Driver 1" through "Driver ") through a memory preset button).

Regarding claim 11. Cowelchuk discloses the non-transitory computer readable medium of claim 10, wherein the user profile data includes at least one of vehicle settings, user preferences, user speech, data input at a device associated with a vehicle, and stored information (Paragraphs [0015] and [0030]; the vehicle settings that can be stored and customized include mirror and seat positions, audio data, voice matching and temperature controls).

Regarding claim 13. Cowelchuk discloses the non-transitory computer readable medium of claim 10, wherein prior to storing the user profile data the method further comprises: determining at least one category associated with information in the user profile data (Paragraphs [0011]-[0012]; the settings categories include driver seat positions, audio and video presets, rearview and side mirror positions, temperature control settings, seat belt height, steering wheel positions, accelerator/brake positions, light colors and intensity, airbag activation and many other categories of settings.); and selecting, based at least partially on the determined at least one category, a specific data field in the profile data memory for storing the user profile data, wherein the specific data field corresponds to the determined at least one category (Paragraphs [0011]-[0012] and Paragraph [0029]; the system has a control unit interface which stores one or more of the various settings for the one or more above mentioned parameters (categories) into a user profile).

Regarding claim 14. Cowelchuk discloses the non-transitory computer readable medium of claim 10, wherein the method further comprises: recognizing the user via one or more sensors associated with a vehicle (Paragraph [0030]; users can be recognized through voice, fingerprint, retinal, or other biometric sensors as well as through a key fob sensors or simply through a button sensor); retrieving, from the profile data memory and based on the recognition, information in the user profile data associated with the user (Paragraphs [0030] and [0035]; the system can use voice, fingerprint, or retinal matching or other biometric identification technology to associate a user profile with a particular user. An authorized user can change, reset, delete or recall customizable settings stored in memory as previously mentioned); and configuring at least one setting of the vehicle based on the information retrieved from the profile data memory (Paragraph [0030]; through the driver identification device a user can depress a memory preset button to alert the control unit as to which settings the customizable parameters are to be recalled).

Regarding claim 15. Cowelchuk discloses a user profile system (Paragraph [0012]-[0013] and [0029]; The invention is to a system of receiving and storing custom user vehicle settings into one of multiple user profiles), comprising: a profile identification module contained in a memory and executed by a processor of the user profile system Paragraphs [0028]-[0030]; users can depress a memory preset button associated with a driver number to change, reset or delete any settings, with the settings being stored in a driver number profile (e.g., Driver 1 through Driver n). Additionally Paragraphs [0017] and [0033]; the system has processing means which are configured to read data from data sources (memory) or input devices to accomplish the invention means), the profile identification module configured to receive information associated with a user (Paragraph [0012]-[0013] and [0029]; The invention is to a system of receiving and storing custom user vehicle settings into one of multiple user profiles), determine whether at least some of the received information qualifies as user profile data (Paragraphs [0022]-[0023] and [0028]-[0029]; the system is equipped with various sensors for sensing driving conditions. Some of this sensed information such as mirror and seat positions can be stored in user profile settings), and store, based at least partially on determining that the at least some of the received information qualifies as user profile data, the user profile data in a profile data memory associated with the user (Paragraph [0028]-[0030]; some of the sensed data can be saved in user profile settings. With the information being stored and associated with a driver number (e.g. "Driver 1" through "Driver ") through a memory preset button), wherein the information associated with the user includes input received at a device associated with a vehicle (Paragraphs [0028]-[0030]; through the driver identification device a user can depress a memory preset button to alert the control unit as to which settings the customizable parameters are to be recalled, changed, reset or deleted), and wherein the profile identification module is further configured to receive modifying information associated with the user, modify the user profile data in the profile data memory associated with the user to include the modifying information associated with the user, and store the modified user profile data in the profile data memory associated with the user (Paragraphs [0028]-[0030]; through the driver identification device a user can depress a memory preset button to alert the control unit as to which settings the customizable parameters are to be recalled, changed, reset or deleted).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2014/034092

Supplemental Box

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

Claims 3 and 12 lack an inventive step under PCT Article 33(3) as being obvious over Cowelchuk et al. (US 2005/0261815 A1; hereinafter Cowelchuk).

Regarding claim 3. Cowelchuk discloses the method of claim 1, wherein determining whether at least some of the received information qualifies as user profile data further comprises: referring to rules stored in a memory, wherein the rules include matching information corresponding to user profile data (Paragraph [0030]; the user can input physical characteristics such as height, etc. and seat, pedal and mirror positions can be "matched" to preset positioning data that matches the input characteristic). Cowelchuk does not explicitly disclose determining, based at least partially on the rules, whether a match exists between the received information and the matching information corresponding to user profile data; and indicating, when the match exists, that the received information qualifies as user profile data. However it would be necessary that the system would need to match up the received parameter inputs to a corresponding profile memory area for storing settings related to each vehicle parameter (Paragraphs [0015] and [0030]; the vehicle settings that can be stored and customized include mirror and seat positions, audio data, voice matching and temperature controls among others). Further Cowelchuk does disclose playing a sound which is assigned to the various customized parameters and therefore a sound can indicate a customized parameter has been set/matched to the profile data (Paragraph [0036]; the user can select and assign a audio sound to each of the various customizable parameters). Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to include determining, based at least partially on the rules, whether a match exists between the received information and the matching information corresponding to user profile data; and indicating, when the match exists, that the received information qualifies as user profile data in the invention of Cowelchuk, so the system can provide feedback to a driver or user that an action of operating a control is being carried out (Cowelchuk; Paragraph [0002]).

Regarding claim 12. Cowelchuk discloses the non-transitory computer readable medium of claim 10, wherein determining whether at least some of the received information qualifies as user profile data further comprises: referring to rules stored in a memory, wherein the rules include matching information corresponding to user profile data (Paragraph [0030]; the user can input physical characteristics such as height, etc. and seat, pedal and mirror positions can be "matched" to preset positioning data that matches the input characteristic). Cowelchuk does not explicitly disclose determining, based at least partially on the rules, whether a match exists between the received information and the matching information corresponding to user profile data; and indicating, when the match exists, that the received information qualifies as user profile data. However it would be necessary that the system would need to match up the received parameter inputs to a corresponding profile memory area for storing settings related to each vehicle parameter (Paragraphs [0015] and [0030]; the vehicle settings that can be stored and customized include mirror and seat positions, audio data, voice matching and temperature controls among others). Further Cowelchuk does disclose playing a sound which is assigned to the various customized parameters and therefore a sound can indicate a customized parameter has been set/matched to the profile data (Paragraph [0036]; the user can select and assign a audio sound to each of the various customizable parameters). Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to include determining, based at least partially on the rules, whether a match exists between the received information and the matching information corresponding to user profile data; and indicating, when the match exists, that the received information qualifies as user profile data in the invention of Cowelchuk, so the system can provide feedback to a driver or user that an action of operating a control is being carried out (Cowelchuk; Paragraph [0002]).

Claims 1-15 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.

From the INTERNATIONAL SEARCHING AUTHORITY

To: JASON H. VICK
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)*	25 AUG 2014
Applicant's or agent's file reference: 6583-544-PCT	**FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No.: PCT/US2014/034099	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:
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   - ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

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   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 6583-544-PCT	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US2014/034099	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 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.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2014/034099

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - B60N 2/02 (2014.01)
USPC - 701/36
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) - B60N 2/02 (2014.01)
USPC - 700/17; 701/36, 49

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
CPC - B60N 2/0248, 2/0296 (2014.02)

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

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 2009/0284359 A1 (HUANG et al) 19 November 2009 (19.11.2009) entire document	1-4,6,7,11,12,14,15 ----- 5,8-10,13
Y	US 2005/0283284 A1 (GRENIER et al) 22 December 2005 (22.12.2005) entire document	5,8,13
Y	US 2010/0222939 A1 (NAMBURU et al) 02 September 2010 (02.09.2010) entire document	9,10,13
A	US 2003/0204290 A1 (SADLER et al) 30 October 2003 (30.10.2003) entire document	1-15
A	US 2011/0093438 A1 (POULSEN) 21 April 2011 (21.04.2011) 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
02 August 2014	25 AUG 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)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: JASON H. VICK
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)*	25 AUG 2014
Applicant's or agent's file reference 6583-544-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2014/034099	15 April 2014	15 April 2013

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - B60N 2/02 (2014.01)
USPC - 701/36

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	02 August 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/US2014/034099

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/US2014/034099

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	4-6,8-10,13	YES
	Claims	1-3,7,11,12,14,15	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 1-3,7,11,12,14,15 lack novelty under PCT Article 33(2) as being anticipated by Huang et al., hereinafter referred to as Huang.

Regarding claims 1,11, Huang teaches a system [claim 1] and a method [claim 11] to access one or more user profiles that govern one or more vehicle functions (system and method for identifying a person as an authorized driver of a vehicle, [abstract]; list of drivers authorized to drive the vehicle, [0034]; list of driver profiles, [0007]) comprising: a processor and verification module (HVI 14 includes a processing unit that processes signals from the controller 10 and signals provided by a driver intending to enter or drive the vehicle, [0022]) adapted to verify, using one or more of biometric information, gesture recognition, facial recognition and device identification information, that a user has authority to access the one or more user profiles, the one or more profiles being stored in one or more of a vehicle, a cloud and a communications device (the driver reselection page can provide the driver with an option to select a new driver from a list of drivers authorized to drive the vehicle wherein the HVI 14 provides the driver with an option to validate the selection of the driver using an identification code input wherein the identification code cam be in the form of biometric characteristic recognition, [0034]); and an edit module adapted to allow the user to make one or more edits to the one or more user profiles (the driver profile identified by the driver ID controller 10 is updated with the changed set of attributes, i.e. the stored set of attributes is replaced by the changed set of attributes, [0046]).

Regarding claims 14,15, Huang teaches a system [claim 14] and a non-transitory computer readable information storage media, having stored thereon instructions [claim 15] to access one or more user profiles that govern one or more vehicle functions (system and method for identifying a person as an authorized driver of a vehicle, [abstract]; list of drivers authorized to drive the vehicle, [0034]; list of driver profiles, [0007]; HVI 14 includes a processing unit that processes signals from the controller 10 and signals provided by a driver intending to enter or drive the vehicle, [0022]) comprising: means for verifying, using a processor, one or more of biometric information, gesture recognition, facial recognition and device identification information, that a user has authority to access the one or more user profiles, the one or more profiles being stored in one or more of a vehicle, a cloud and a communications device (the driver reselection page can provide the driver with an option to select a new driver from a list of drivers authorized to drive the vehicle wherein the HVI 14 provides the driver with an option to validate the selection of the driver using an identification code input wherein the identification code cam be in the form of biometric characteristic recognition, [0034]); and means for allowing the user to make one or more edits to the one or more user profiles (the driver profile identified by the driver ID controller 10 is updated with the changed set of attributes, i.e. the stored set of attributes is replaced by the changed set of attributes, [0046]).

Regarding claims 2,12, Huang teaches one or more templates on which the one or more user profiles are based (the HVI 14 provides the set of predefined fields to the driver ID controller 10, [0040]; the driver ID controller 10 creates a temporary driver profile to temporarily store the changed set of attributes, [0043]; the driver ID controller 10 also retrieves a driver ID corresponding to a last-known authorized driver or one default authorized driver of the vehicle or a "guest" driver with default settings, [0030]).

Regarding claim 3, Huang teaches the verification module further receives a request to access a specific user profile, the user profile storing preferences for the user that govern one or more of vehicle functions, vehicle preferences and vehicle infotainment settings (the LCM 18 retrieves a set of attributes stored for the corresponding driver ID and the LCM 18 adjusts the corresponding components of the vehicle according to the set of attributes retrieved, [0036]; Each LCM 18 controls an associated component of the vehicle, such as door locks 20, rear-view mirrors 22, a driving seat 24, a hand wheel 26, a radio 28 and a climate control system 30, [0022]).

Regarding claim 7, Huang teaches the one or more user profiles include one or more of: vehicle preferences, seat settings, HVAC settings, recorded settings, geographic location information, mobile device information, mobile device electronic addresses, Internet browsing history and content, application store selections, user settings, enabled features, disabled features, private information, social network information, user presence information, user business account information, secure data, biometric information, audio information from on board microphones, video information from on board cameras, Internet browsing history and browsed content from using an on board computer, local area network settings, electronic map information, user purchasing preferences, user driving behavior and preferences, user behavior with respect to a selected object, user socioeconomic status, user residence and business addresses, user communication devices and electronic addresses therefor, user biometric information and other user identification information, user family members and, for each family member, the foregoing information (Each LCM 18 controls an associated component of the vehicle, such as door locks 20, rear-view mirrors 22, a driving seat 24, a hand wheel 26, a radio 28 and a climate control system 30, [0022]).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2014/034099

Supplemental Box

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

Claims 4,6 lack an inventive step under PCT Article 33(3) as being obvious over Huang.

Regarding claims 4,6, Huang does not disclose an encryption module adapted to perform authentication of the user [claim 4] wherein the one or more user profiles are at least partially encrypted [claim 6]. However, it is extremely well known to perform encryption during user authentication. It would have been obvious to one of ordinary skill in the art at the time of the invention to encrypt a user profile and use an encryption module to authenticate a user since the provision of adjustability, where needed, is a matter of routine skill in the art and in order to ensure the security of a vehicle is not compromised.

Claims 5,8 lack an inventive step under PCT Article 33(3) as being obvious over Huang in view of Grenier et al., hereinafter referred to as Grenier.

Regarding claim 5, Huang does not disclose a profile subsystem adapted to resolve conflicts between the one or more edits and the one or more user profiles. However, Grenier is in the field of managing a fleet of vehicles and user profiles ([abstract]) and further teaches a profile subsystem adapted to resolve conflicts between one or more edits and one or more user profiles (Conflict resolution data assists the system 100 manage technological as well as operational conflicts between different services 106 and devices 104, [0056-0057]; [0079]). It would have been obvious to one of ordinary skill in the art at the time of the invention to provide conflict resolution services as taught by Grenier in the invention of Huang in order to ensure two services which require the use of the same device do not overlap (Grenier, [0079]).

Regarding claim 8, Huang teaches at least one of the one or more user templates (the HVI 14 provides the set of predefined fields to the driver ID controller 10, [0040]; the driver ID controller 10 creates a temporary driver profile to temporarily store the changed set of attributes, [0043]; the driver ID controller 10 also retrieves a driver ID corresponding to a last-known authorized driver or one default authorized driver of the vehicle or a "guest" driver with default settings, [0030]), but does not explicitly teach the template is based on a global standard template, wherein the global standard template is common among one or more of vehicle manufacturers, company vehicles and a geographic area. However, Grenier does disclose services for a vehicle or fleet of vehicles can be ordered, renewed, modified, managed, configured, and/or cancelled through a common interface ([abstract]). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide a global standard template common to company vehicles in order to allow a fleet of vehicles to be managed (Grenier, [abstract]).

Claims 9,10 lack an inventive step under PCT Article 33(3) as being obvious over Huang in view of Namburu et al., hereinafter referred to as Namburu.

Regarding claims 9,10, Huang teaches device-to-car transfer (transceiver 12 receives an entry signal from an entry device associated with the vehicle, such as a key fob, an RFID device, etc., and sends the received signal to the driver ID controller 10 for identification, [0022]; local controller 36, in turn, reports to the driver ID controller 10 via the BCM 16 through a communications network 34 wherein the controller 10 stores the driver ID and setting information in a table, where each set of attributes corresponds to an authorized driver of the vehicle, [0025]), but does not disclose the one or more user profiles can be transferred from one or more of car-to-car, device-to-car, car-to-device, car-to-cloud, and cloud-to-car [claim 9] wherein the device is a mobile communications device [claim 10]. However, Namburu is in the field of managing a vehicle ([abstract]) and further teaches one or more user profiles can be transferred from one or more of car-to-car, device-to-car, car-to-device, car-to-cloud, and cloud-to-car wherein the device is a mobile communications device (in addition to the ID code, the remote device may transmit user profile data to the vehicle, [0031]). It would have been obvious to one of ordinary skill in the art at the time of the invention to perform device-to-car transfer as taught by Namburu in the invention of Huang in order to allow a user to transfer profile information to multiple vehicles.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2014/034099

Supplemental Box

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

Claim 13 lacks an inventive step under PCT Article 33(3) as being obvious over Huang in view of Grenier and further in view of Namburu.

Regarding claim 13, modified Huang teaches the one or more user profiles are at least partially encrypted, as per above discussion, and Huang further teaches receiving a request to access a specific user profile (the driver reselection page can provide the driver with an option to select a new driver from a list of drivers authorized to drive the vehicle wherein the HVI 14 provides the driver with an option to validate the selection of the driver using an identification code input wherein the identification code cam be in the form of biometric characteristic recognition, [0034]), the user profile storing preferences for the user that govern one or more of vehicle functions, vehicle preferences and vehicle infotainment settings (the LCM 18 retrieves a set of attributes stored for the corresponding driver ID and the LCM 18 adjusts the corresponding components of the vehicle according to the set of attributes retrieved, [0036]; Each LCM 18 controls an associated component of the vehicle, such as door locks 20, rear-view mirrors 22, a driving seat 24, a hand wheel 26, a radio 28 and a climate control system 30, [0022]), performing authentication of the user (the driver reselection page can provide the driver with an option to select a new driver from a list of drivers authorized to drive the vehicle wherein the HVI 14 provides the driver with an option to validate the selection of the driver using an identification code input wherein the identification code cam be in the form of biometric characteristic recognition, [0034]), wherein the one or more user profiles include one or more of: vehicle preferences, seat settings, HVAC settings, recorded settings, geographic location information, mobile device information, mobile device electronic addresses, Internet browsing history and content, application store selections, user settings, enabled features, disabled features, private information, social network information, user presence information, user business account information, secure data, biometric information, audio information from on board microphones, video information from on board cameras, Internet browsing history and browsed content from using an on board computer, local area network settings, electronic map information, user purchasing preferences, user driving behavior and preferences, user behavior with respect to a selected object, user socioeconomic status, user residence and business addresses, user communication devices and electronic addresses therefor, user biometric information and other user identification information, user family members and, for each family member, the foregoing information (Each LCM 18 controls an associated component of the vehicle, such as door locks 20, rear-view mirrors 22, a driving seat 24, a hand wheel 26, a radio 28 and a climate control system 30, [0022]), but does not disclose resolving conflicts between the one or more edits and the one or more user profiles wherein in at least one of the one or more user templates is based on a global standard template, wherein the global standard template is common among one or more of vehicle manufacturers, company vehicles and a geographic area, wherein the one or more user profiles can be transferred from one or more of car-to-car, device-to-car, car-to-device, car-to-cloud, and cloud-to-car, and/or wherein the device is a mobile communications device. However, Grenier is in the field of managing a fleet of vehicles and user profiles ([abstract]) and further teaches a profile subsystem adapted to resolve conflicts between one or more edits and one or more user profiles (Conflict resolution data assists the system 100 manage technological as well as operational conflicts between different services 106 and devices 104, [0056-0057]; [0079]). It would have been obvious to one of ordinary skill in the art at the time of the invention to provide conflict resolution services as taught by Grenier in the invention of Huang in order to ensure two services which require the use of the same device do not overlap (Grenier, [0079]). Modified Huang still does not disclose at least one of the one or more user templates is based on a global standard template, wherein the global standard template is common among one or more of vehicle manufacturers, company vehicles and a geographic area, wherein the one or more user profiles can be transferred from one or more of car-to-car, device-to-car, car-to-device, car-to-cloud, and cloud-to-car, and/or wherein the device is a mobile communications device. However, Namburu is in the field of managing a vehicle ([abstract]) and further teaches one or more user profiles can be transferred from one or more of car-to-car, device-to-car, car-to-device, car-to-cloud, and cloud-to-car, and/or wherein the device is a mobile communications device (in addition to the ID code, the remote device may transmit user profile data to the vehicle, [0031]). It would have been obvious to one of ordinary skill in the art at the time of the invention to perform device-to-car transfer as taught by Namburu in the invention of Huang in order to allow a user to transfer profile information to multiple vehicles. Modified Huang still does not disclose at least one of the one or more user templates is based on a global standard template, wherein the global standard template is common among one or more of vehicle manufacturers, company vehicles and a geographic area. However, Grenier does disclose services for a vehicle or fleet of vehicles can be ordered, renewed, modified, managed, configured, and/or cancelled through a common interface ([abstract]). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide a global standard template common to company vehicles in order to allow a fleet of vehicles to be managed (Grenier, [abstract]).

Claims 1-15 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.

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: THAINE LENNOX-GENTLE
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)

Applicant's or agent's file reference 6583-547-PCT	Date of mailing *(day/month/year)* 22 AUG 2014 **FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No. PCT/US2014/034087	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 6583-547-PCT	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US2014/034087	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 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.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2014/034087

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - B06R 25/25 (2014.01)
USPC - 340/5.82
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) - B60R 25/00; 25/20; 25/25; 25/31 (2014.01)
USPC - 180/287; 307/10.2; 340/5.82

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
CPC - B60R 25/241; 25/252; 25/255; 25/257 (2014.02)

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/0217850 A1 (PERTTUNEN et al) 04 NOVEMBER 2004 (04.11.2004) entire document	1-6, 9-13 and 15
..... Y		..... 7, 8 and 14
Y	US 2006/0036358 A1 (HALE et al) 16 FEBRUARY 2006 (16.02.2006) entire document	7, 8 and 14
A	US 4,754,255 (SANDERS et al) 28 JUNE 1988 (28.06.1988) 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
01 AUG 2014	22 AUG 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)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: THAINE LENNOX-GENTLE
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)*	22 AUG 2014
Applicant's or agent's file reference 6583-547-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2014/034087	15 April 2014	15 April 2013

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - B60R 25/25 (2014.01)
USPC - 340/5.82

Applicant FLEXTRONICS AP, LLC

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

- [x] 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
- [x] 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	01 AUG 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/US2014/034087

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/US2014/034087

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	7, 8 and 14	YES
	Claims	1-6, 9-13 and 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 1-6, 9-13 and 15 lack novelty under PCT Article 33(2) as being anticipated by Perttunen et al (US 2004/0217850 A1), hereinafter, "Perttunen".

Regarding claims 1 and 9, Perttunen discloses a method (Fig 2A and 2B method) and a non-transitory computer readable medium having instructions stored thereon that (Fig 1 #22 controller), when executed by a processor, perform a method comprising:
detecting a presence of at least one user in a vehicle ([0015] detecting the presence of the user 13; Fig 2A #106);
determining an identity of the at least one user ([0015] stage two unlocks the doors if the user is authorized to enter the vehicle);
receiving data associated with the at least one user, wherein the data includes biometric information ([0024] checks for a match between the biometric characteristic detected by the sensor 18);
detecting a deviation between the received data and an established baseline biometric profile associated with the at least one user;
([0024] checks for a match between the biometric characteristic detected by the sensor 18 and that of an authorized user stored... if there is no match between the detected biometric characteristic and the stored value);
and determining, based at least partially on the detected deviation, to provide an output configured to address the deviation ([0024] then the controller 22 disables all features of the vehicle 20).

Regarding claims 2 and 10, Perttunen further discloses, wherein prior to receiving data associated with the at least one user the method further comprises: determining the baseline biometric profile associated with the at least one user ([0024] checks for a match between the biometric characteristic detected by the sensor 18 and that of an authorized user stored); and storing the determined baseline biometric profile in a user profile memory associated with the at least one user ([0024] that of an authorized user stored, for example, in the memory of the controller 22).

Regarding claims 3 and 11, Perttunen further discloses, wherein determining the presence of the at least one user inside the vehicle further comprises: detecting a person via at least one image sensor associated with the vehicle ([0016] the biometric sensor 18 can be one or more of a number of different types of sensors. For example, the biometric sensor 18 may be a voice recognition sensor, a fingerprint identification sensor, or a sensor for iris identification, retina scanning, handprint, lightprint, or face recognition).

Regarding claims 4 and 12, Perttunen further discloses, wherein determining the identity of the at least one user further comprises: identifying facial features associated with the person detected via the at least one image sensor ([0016] the biometric sensor 18 can be one or more of a number of different types of sensors. For example, the biometric sensor 18 may be...face recognition); and determining whether the identified facial features associated with the person match user characteristics stored in a memory ([0024] checks for a match between the biometric characteristic detected by the sensor 18 and that of an authorized user stored in the memory of the controller 22).

Regarding claims 5 and 13, Perttunen further discloses, wherein the output configured to address the deviation is provided by the vehicle, and wherein addressing the deviation includes adjusting one or more settings associated with the vehicle ([0024] then the controller 22 disables all features of the vehicle 20 [disable is adjustment]).

Regarding claim 6, Perttunen further discloses, wherein the one or more settings include at least one of a vehicle interior environment, temperature, air composition, oxygen level, sound level, window position, seat position, and lighting level ([0022] For example, the desired function may be the operation of certain comfort features, such as the seat settings, the climate control).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2014/034087

Supplemental Box

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

Regarding claim 15, Perttunen discloses a vehicle control system ([0013] multistage vehicle security system), comprising:
a profile identification module contained in a memory and executed by a processor of the vehicle control system ([0024] memory of the controller 22),
the profile identification module configured to
detect a presence of at least one user in a vehicle ([0015] detecting the presence of the user 13; Fig 2A #106),
determine an identity of the at least one user ([0015] stage two unlocks the doors if the user is authorized to enter the vehicle),
receive data associated with the at least one user, wherein the data includes biometric information ([0024] checks for a match between the biometric characteristic detected by the sensor 18),
detect a deviation between the received data and an established baseline biometric profile associated with the at least one user ([0024] checks for a match between the biometric characteristic detected by the sensor 18 and that of an authorized user stored... if there is no match between the detected biometric characteristic and the stored value),
and determine, based at least partially on the detected deviation, to provide an output configured to address the deviation ([0024] then the controller 22 disables all features of the vehicle 20),
and wherein prior to receiving data associated with the at least one user the profile identification module is further configured to determine the baseline biometric profile associated with the at least one user ([0024] biometric characteristic detected by the sensor 18 and that of an authorized user stored),
and store the determined baseline biometric profile in a user profile memory associated with the at least one user ([0024] that of an authorized user stored, for example, in the memory of the controller 22).

Claims 7, 8 and 14 lack an inventive step under PCT Article 33(3) as being obvious over Perttunen, in view of, Hale et al (US 2006/0036358 A1), hereinafter, "Hale".

Regarding claims 7 and 14, Perttunen does not explicitly disclose: detecting a vehicle incident via one or more sensors associated with the vehicle; collecting, based at least partially on the detected vehicle incident, the data associated with the at least one user; and sending the established baseline biometric profile and collected data associated with the at least one user to a third party.
However Perttunen teaches detecting a vehicle incident via one or more sensors associated with the vehicle ([0024] checks for a match between the biometric characteristic detected by the sensor 18); collecting, based at least partially on the detected vehicle incident, the data associated with the at least one user ([0024] checks for a match between the biometric characteristic detected by the sensor 18 and that of an authorized user stored); and sending the established baseline biometric profile and collected data associated with the at least one user to the controller ([0024] If the controller 22 determines that there is a match, the process 100 enables all high level operational features of the vehicle 20).
Hale et al is also in the field of vehicle control systems ([0003] systems, devices, and methods for inhibiting potential impaired operators and unauthorized persons from operating a motor vehicle) and discloses detecting a vehicle incident via one or more sensors associated with the vehicle ([0060] system 110 is designed to biometrically identify the operator through fingerprint, thumbprint, iris, voice or any other form of biometric recognition; [0064] and the selected vehicle function devices be energized in the predetermined sequence, but the sequence must be performed within a predetermined time period as well); collecting, based at least partially on the detected vehicle incident, the data associated with the at least one user ([0067] After the operator as has been identified, the time frame for the operator to complete the sequence of vehicle inputs is controlled by microcontroller 34. The timing is calculated by microcontroller 34 using the average time of the last five successful starts by that individuals); and sending the established baseline biometric profile and collected data associated with the at least one user to a third party ([0075] Such operator data can be stored and/or downloaded to another computer via connection ports for a variety of uses. For example, if the disclosed system were used as part of a law enforcement program, compliance with a court order could be readily monitored).
Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate sending the data to a third party, as taught in Hale, within the invention of Perttunen because it adds robustness to the system.

Regarding claim 8, Perttunen does not explicitly disclose, wherein the data associated with the at least one user is received at a first data rate in the absence of a detected vehicle incident and collected at a higher second data rate upon detecting the vehicle incident.
However Perttunen teaches data associated with the at least one user being received ([0024] checks for a match between the biometric characteristic detected by the sensor 18 and that of an authorized user stored).
Hale discloses wherein the data associated with the at least one user is received at a first data rate in the absence of a detected vehicle incident (the time frame for the operator to complete the sequence of vehicle inputs is controlled by microcontroller 34. The timing is calculated by microcontroller 34 using the average time of the last five successful starts by that individuals); and collected at a higher second data-rate upon detecting the vehicle incident ([0069] If the timer mechanism times out before the potential operator performs the proper vehicle functions in sequence; [0064] thus, an impaired potential operator, who knows the proper sequence, may be inhibited from starting the motor vehicle due to the presence of timer mechanism within microcontroller 34. A potential operator, whose motor skills are diminished due to excessive alcohol consumption, or drug use, or lack of sleep, or onset of dementia may not be able to properly perform the function sequence within the predetermined time period).
Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate data, as taught in Hale, within the invention of Perttunen because it adds robustness to the system.

Claims 1-15 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.

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)

Applicant's or agent's file reference 6583-550-PCT	Date of mailing *(day/month/year)* 15 SEP 2014 **FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No. PCT/US14/34232	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 6583-550-PCT	**FOR FURTHER ACTION**	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US14/34232	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:

ALTERED MAP ROUTES BASED ON USER PROFILE INFORMATION

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.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US14/34232

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - G01C 21/34; B60W 40/08; G06K 9/62 (2014.01)
CPC - G08G 1/09, 1/143; B60W 40/09
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): G01C 21/34; B60W 40/08; G06N 3/08; B60W 40/08; G06K 9/62 (2014.01)
CPC Classification(s): G08G 1/09, 1/143; G06Q 30/0265; G06N 5/02; B60W 40/09; B60T 2220/02; G06K 9/00818

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: pattern, route, context, plan, behavior, track

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 2008/0104227 A1 (BIRNIE, P et al.) 01 May 2008; Figures 1-5, 10, 12, 13; Paragraphs [0036], [0065], [0076], [0077], [0089], [0105], [0108], [0115], [0132], [0139], [0140], [0162].	1-7, 11-14, 16-19 --- 8-10, 15, 20
Y	US 2013/0079964 A1 (SUKKARIE, A et al.) 28 March 2013; Abstract; Paragraph [0125].	8-10, 15, 20
A	US 2009/0157312 A1 (BLACK, N et al.) 18 June 2009; entire document.	1-20

☐ 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
6 August 2014 (06.08.2014)	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 6583-550-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US14/34232	15 April 2014 (15.04.2014)	15 April 2013 (15.04.2013)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G01C 21/34; B60W 40/08; G06K 9/62 (2014.01)
CPC - G08G1/09; G08G1/143; B60W40/09

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	6 August 2014 (06.08.2014)	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/US14/34232

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/US14/34232

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	8-10, 15, 20	YES
	Claims	1-7, 11-14, 16-19	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	NONE	NO

2. Citations and explanations:

Claims 1-7, 11-14, and 16-19 lack novelty under PCT Article 33(2) as being anticipated by US 2008/0104227 A1 to BIRNIE et al. (hereinafter 'Birnie').

As per claim 1, Birnie discloses a method for providing navigation information for a conveyance (providing location information over a social network and determining a route to provide to a client device; Abstract), comprising: a vehicle control system, including a processor, receiving route information for two or more routes (central processing unit 312 (processor), a route mapper module, RM 357, provides route information from a given start and end location takes into account intermediate locations (two or more routes); Figure 3; paragraphs [0065], [0105]); the vehicle control system determining the context associated with route information (RM 357 requests from a location information service, LIS 354, location descriptions such as location names for determining a location of interest (context); Figures 3, 10; paragraphs [0036], [0105]); the vehicle control system storing the route information and the context (the networked client device receives and stores data in mass memory 230, including location information, route data and social networking data of the user account used as context; Figure 2; paragraphs [0077], [0139]); the vehicle control system identifying a pattern associated with the route information and context (searches and filters results to determine relevancy corresponding to the representation (pattern) of start and end locations as GPS coordinates and retrieved location name; Figures 4, 12; paragraph [0115]); and the vehicle control system providing pattern information to plan a next route (based in part on patterns identified in the social networks, a route is provided (for next route) at step 512 along with reviews, schedules, or sponsored messages; Figures 5, 13; paragraphs [0132], [0140]).

As per claim 11, Birnie discloses a conveyance comprising: a processor operable to execute one or more modules, the modules comprising: a route integration module operable to: receive route information for two or more routes (system distributed across a plurality of computing devices, includes a central processing unit 312 (processor) to execute a route mapper module, RM 357 (a route integration module), that accesses a street map from a data store and provides route information from a given start and end location through intermediate locations (two or more routes); Figure 3; paragraphs [0065], [0076]); determine the context associated with route information (RM 357 requests from a location information service, LIS 354, location descriptions such as location names for determining a location of interest (determine the context associated with route information); Figures 3, 10; paragraphs [0036], [0105]); store the route information and the context (the networked client device receives and stores data in mass memory 230, including location information, route data and social networking data of the user account used as context; Figure 2; paragraphs [0077], [0139]); a pattern recognition module operable to identify a pattern associated with the route information and context (GSS 106 (a pattern recognition module) searches and filters results to determine relevancy (pattern) corresponding to the representation of start and end locations as GPS coordinates and retrieved location name; Figures 1, 4; paragraphs [0108], [0115]); and a route suggestion module operable to provide a next route based on pattern information (based in part on patterns identified in the social networks, a (next) route is provided in process 500 implemented within GSS 106 (a route suggestion module) along with reviews, schedules, or sponsored messages; Figures 5, 13; paragraphs [0132], [0140]).

As per claim 16, Birnie 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 (non-volatile computer-readable storage media as mass memory storing computer readable instructions provided to a processor to implement actions (instructions); paragraphs [0089], [0162]), the instructions comprising: instructions to receive route information for two or more routes (the module implementation RM 357, accesses a street map from a data store and provides route information from a given start and end location through intermediate locations (instructions to receive route information for two or more routes); Figure 3; paragraphs [0065], [0076]); instructions to determine the context associated with route information (RM 357 requests from a location information service, LIS 354, location descriptions such as location names for determining a location of interest (to determine the context associated with route information); Figures 3, 10; paragraphs [0036], [0105]); instructions to store the route information and the context (the networked client device is configured to receive and store data in mass memory 230, including location information, route data and social networking data of the user account used as context; Figure 2; paragraphs [0077], [0139]); instructions to identify a pattern associated with the route information and context (GSS 106 searches and filters results to determine relevancy (pattern) corresponding to the representation of start and end locations as GPS coordinates and retrieved location name; Figures 1, 4; paragraphs [0108], [0115]); and instructions to provide a next route based on pattern information (based in part on patterns identified in the social networks, a (next) route is provided in process 500 implemented within GSS 106, along with reviews, schedules, or sponsored messages; Figures 5, 13; paragraphs [0132], [0140]).

As per claim 2, Birnie discloses the method of claim 1. Birnie additionally discloses, wherein the route information includes at least an origin location and a destination (the received information includes a start and end location at step 502 (the route information includes at least an origin location and a destination); Abstract; Figure 5).

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

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34232

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 3, Birnie discloses the method of claim 2. Birnie additionally discloses, wherein at least one route was generated by a navigation system (the route is provided at step 512 of process 500 by the geo-location search server (at least one route was generated by a navigation system); Figure 5; paragraph [0132]).

As per claim 4, Birnie discloses the method of claim 3. Birnie additionally discloses, wherein the context includes information indicating a reason why a driver followed the route (the location of interest that provides context (the context includes information) indicates the user searched a location name or members of the user's community share the interest (indicating a reason why a driver followed the route); paragraphs [0036], [0134]).

As per claim 5, 13, and 18, Birnie discloses the method of claim 4, the conveyance of claim 12, and the computer readable medium of claim 17, respectively. Birnie additionally discloses, wherein two or more drivers in two or more conveyances provided the route information (members in a social network using client devices 102 and 103 to update location information as GPS coordinates while traveling on a route from A to B (two or more drivers in two or more conveyances provided the route information); Figures 1, 10; paragraphs [0140], [0141]).

As per claim 6, 14, and 19, Birnie discloses the method of claim 5, the conveyance of claim 13, and the computer readable medium of claim 18, respectively. Birnie additionally discloses, wherein the pattern information includes one or more of destinations arrived at certain time periods, routes driven on certain days, or ofte•Ltraveled routes (the display 1200 of destinations is pushed to the client device based on input conditions (the pattern information) includes a time period (destinations arrived at certain time periods); Figure 12; paragraph [0197]).

As per claim 7, Birnie discloses the method of claim 6. Birnie discloses, wherein the pattern information is provided to a third driver to plan a route (the location information included in a search result record is provided to any member of the social network or third-party user who paid for the description to be included in the search results (the pattern information is provided to a third driver to plan a route); paragraph [0116]).

As per claim 12 and 17, Birnie discloses the conveyance of claim 11 and the computer readable medium of claim 16, respectively. Birnie additionally discloses, wherein the route information includes at least an origin location and a destination (the received information includes a start and end location at step 502 (the route information includes at least an origin location and a destination); Abstract; Figure 5), wherein at least one route was generated by a navigation system (the route is provided at step 512 of process 500 by the geo-location search server (at least one route was generated by a navigation system); Figure 5; paragraph [0132]), and wherein the context includes information indicating a reason why a driver followed the route wherein the context includes information indicating a reason why a driver followed the route (the location of interest that provides context (the context includes information) indicates the user searched a location name or members of the user's community share the interest (indicating a reason why a driver followed the route); paragraphs [0036], [0134]).

Claims 8-10, 15, and 20 lack an inventive step under PCT Article 33(3) as being obvious over Birnie in view of US 2013/0079964 A1 to SUKKARIE et al. (hereinafter 'Sukkarie').

As per claim 8, Birnie discloses the method of claim 7. Birnie does not disclose, wherein the third driver is unfamiliar with an area surrounding the planned route. Sukkarie discloses, wherein the third driver is unfamiliar with an area surrounding the planned route (a vehicle centric system on a planned route path in a communication network that utilizes specific user patterns and integrates with shared features to enable the driver previously unfamiliar with an area to take an efficient route (wherein the third driver is unfamiliar with an area surrounding the planned route); Abstract; paragraph [0125]). It would have been obvious to a person of ordinary skill in the art, at the time of the invention, to modify the method of Birnie with the teaching of Sukkarie, because by doing so, the method of Birnie would provide a communication network for the driver that integrates shared features and uses clustering analysis to provide interactive and adaptive routing.

As per claim 9, Birnie in combination with Sukkarie discloses the method of claim 8. Birnie additionally discloses, wherein the route information and context are stored remotely (member information travels between client devices over the network 145 and is stored in database tables (the route information and context are stored remotely); Figure 1; paragraphs [0148], [0159]).

As per claim 10, Birnie in combination with Sukkarie discloses the method of claim 9. Birnie additionally discloses, wherein the planned route is associated with information in a user profile of the third driver (the end location is determined based on the identity of the member of the social network such as by member interests or preferences (wherein the planned route is associated with information in a user profile of the third driver); paragraphs [0116], [0134]).

I

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

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34232

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 15 and 20, Birnie discloses the conveyance of claim 14 and the computer readable medium of claim 19, respectively. Birnie additionally discloses, wherein the pattern information is provided to a third driver to plan a route (the location information included in a search result record is provided to any member of the social network or third-party who paid for the description to be included in the search results (the pattern information is provided to a third driver to plan a route); paragraph [0116]). Birnie does not disclose, and wherein the third driver is unfamiliar with an area surrounding the planned route. Sukkarie discloses, and wherein the third driver is unfamiliar with an area surrounding the planned route (a vehicle centric system on a planned route path in a communication network that utilizes specific user patterns and integrates with shared features to enable the driver previously unfamiliar with an area to take an efficient route (and wherein the third driver is unfamiliar with an area surrounding the planned route); Abstract; paragraph [0125]). It would have been obvious to a person of ordinary skill in the art, at the time of the invention, to modify the conveyance of Birnie with the teaching of Sukkarie, because by doing so, the conveyance of Birnie would provide a communication network for the driver that integrates shared features and clustering analysis to provide interactive and adaptive routing.

Claims 1-20 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: Dean N. Reinhardt
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: 6583-556-PCT	**FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No.: PCT/US14/34098	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 6583-556-PCT	**FOR FURTHER ACTION**	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US14/34098	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. 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/US14/34098

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - G05B 15/02; G05D 23/19; G06F 15/177 (2014.01)
CPC - H04L 12/2803, 12/2807, 12/2812
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): G05B 15/02; G05D 23/19; G06F 15/177 (2014.01)
CPC Classification(s): H04L 12/2803, 12/2807, 12/2812 ; USPC Classification(s): 700/19; 715/733, 744

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); Google; Google/Scholar; ProQuest; Keywords: vehicle*, car*, automo*, software*, *processor*, CPU, comput*, home*, residen*, server*, connect*, access*, home*, automation*, occupant*, person*, user*, driver*, passenger*, ident*, profil*, subscription*, registration*, credential*, authentication*, login

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 2010/0289643 A1 (TRUNDLE SS et al.) November 18, 2010; figures 2, 6, 10, 12; paragraphs [0043], [0049], [0054], [0064], [0065], [0073], [0075], [0076], [0114], [0125], [0130], [0131], [0139]-[0141], [0148], [0149], [0154]	1-7, 9-15 --------- 8
X	US 2013/0083805 A1 (LU J et al.) April 4, 2013; paragraphs [0123]-[0125], [0165], [0205], [0232], [0233], [0241]-[0245]	1, 4
Y	Meet Samsung's version of Apple AirPlay. CNET.com; October 10, 2012 [retrieved on 2014-08-14]; retrieved from the Internet: <URL: http://www.cnet.com/products/samsung-allshare-cast-hub-eadt10jdegsta/>	8
P/X	US 2013/0231784 A1 (ROVIK CL et al.) September 5, 2013; entire document	1, 12
A	US 7,526,539 B1 (HSU G) April 28, 2009; entire document	1-15
A	US 2011/0309953 A1 (PETITE TD et al.) December 22, 2011; entire document	1-15
A	US 2010/0321151 A1 (MATSUURA C et al.) December 23, 2010; entire document	1-15
A	US 2010/0125387 A1 (PARK S et al.) May 20, 2010; entire document	1-15
A	US 2007/0192486 A1 (WILSON BB et al.) August 16, 2007; 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
24 August 2014 (24.08.2014)	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: Dean N. Reinhardt
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 6583-556-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US14/34098	15 April 2014 (15.04.2014)	15 April 2013 (15.04.2013)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G05B 15/02; G05D 23/19; G06F 15/177 (2014.01)
CPC - H04L 12/2803, 12/2807, 12/2812

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	24 August 2014 (24.08.2014)	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/US14/34098

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/US14/34098

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	6, 8, 11	YES
	Claims	1-5, 7, 9, 10, 12-15	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 1-5, 7, 9-10, and 12-15 lack novelty under PCT Article 33(2) as being anticipated by US 2010/0289643 A1 (TRUNDLE).

As per claim 1, Trundle discloses a method, comprising: receiving, by a microprocessor executable home automation module (monitoring application 242; paragraph [0075]), an identity (permission system based on user-specific passcodes, i.e., receiving an identity; paragraph [0075]) of at least one occupant (user; paragraph [0075]) of a vehicle (automobile (vehicle); paragraph [0139]); accessing, by the microprocessor executable home automation module (242), an account of the at least one vehicle occupant, the account defining at least one home location for the vehicle occupant (method includes monitoring a user (occupant) associated with monitored properties (home location), i.e., an account; paragraph [0011]); connecting, by the microprocessor executable home automation module (242), to a home automation system of one of the at least one home locations (mobile devices 240, i.e., having native monitoring application 242 thereon, communicate with control unit 210 (home automation system), at a monitored property (home location); figure 2; paragraphs [0055], [0062]); receiving, by the microprocessor executable home automation module (242), a state of features of the home automation system (enables users to monitor energy consuming appliances (i.e., monitoring the state of features; paragraph [0063]); retrieving, by the microprocessor executable home automation module (242), from the account of the at least one vehicle occupant, arrival settings for features of the home automation system (tracks mobile device's physical location for use to control settings (arrival settings) when user is going toward home; paragraph [0065]); generating, by the microprocessor executable home automation module (242), commands to implement the arrival settings (tracks mobile device's physical location for use to control (generating commands) settings (arrival settings) when user is going toward home; paragraph [0065]); and sending, by the microprocessor executable home automation module (242), the commands to the home automation system (mobile devices 240, i.e., having native monitoring application 242 thereon, communicate with (send commands to) control unit 210 (home automation system); figure 2; paragraphs [0055], [0062]).

As per claim 2, Trundle discloses the method of claim 1, and further discloses wherein the microprocessor executable home automation module (242) sends a first set of commands to the home automation system at a first time (system maintains (first set of commands) appliances in an off state at a first time; figure 12; paragraph [0140]) and a second set of commands to the home automation system at a second time (system turns (second set of commands) the thermostat 1216 to an on state at a second time; figure 12; paragraph [0141]); and wherein the first time and the second time are determined by one of the account of the at least one occupant and the microprocessor executable home automation module (monitoring system determines the first and second time via monitoring application 242; paragraphs [0140], [0141]) based at least in part on the state of features of the home automation system (at first and second time, based on the geographic location of the user, the monitoring system controls the state of lighting device 1212, the oven 1214, and the thermostat 1216; paragraphs [0140], [0141]).

As per claim 3, Trundle discloses the method of claim 2, and further discloses wherein the microprocessor executable home automation module (242) sends the first set of commands to the home automation system when the vehicle is a first distance from the home location (system maintains (first set of commands) appliances in an off state when user, i.e., in a vehicle, is at a first distance from the property 1210 (home location); figure 12; paragraph [0140]) wherein the microprocessor executable home automation module sends the second set of commands when the vehicle is a second distance from the home location (system turns (second set of commands) the thermostat 1216 to an on state when user, i.e., in a vehicle, is at a second distance from the property 1210 (home location); figure 12; paragraph [0140]); and wherein the first distance is greater than the second distance (second distance is closer to the property (home location); figure 12; paragraph [0141]).

As per claim 4, Trundle discloses the method of claim 1, and further discloses wherein the settings comprise at least one of activating, deactivating, and changing a setting of at least one of an interior light, an exterior light, a security system, an interior entertainment system, an exterior entertainment system, a thermostat, and a door lock of the home automation system (user defined mode (settings) controls temperature (thermostat), light (interior and exterior light); paragraphs [0073], [0140], [0141]).

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

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34098

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 2013/0231784 A1	05/09/2013	01/03/2012	01/03/2012

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)*

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34098

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 5, Trundle discloses the method of claim 1, and further discloses wherein the at least one vehicle occupant comprises a first vehicle occupant (parent user; paragraph [0076]) and a second vehicle occupant (child user; paragraph [0076]), and further comprising: determining, by the microprocessor executable home automation module (242), a conflict between at least one setting of the first vehicle occupant and at least one setting of the second vehicle occupant (conflicting input (conflict) may occur between first action (setting) of parent user (first vehicle occupant) and second action (setting) of child user (second vehicle occupant); paragraph [0076]); determining, by the microprocessor executable home automation module (242), a first priority of the first vehicle occupant and a second priority of the second vehicle occupant (parent user (first vehicle occupant) has a higher priority (first priority) than child user, i.e. having lower priority (second priority); paragraph [0076]); when the first priority is greater than the second priority, generating, by the microprocessor executable home automation module (242), commands to implement the at least one setting of the first vehicle occupant (native monitoring application 242 may perform only the first action (setting) of parent user (first vehicle occupant); paragraph [0076]); and when the second priority is greater than the first priority, generating, by the microprocessor executable home automation module (242), commands to implement the at least one setting of the second vehicle occupant (system 200 resolves the conflict based on user priority, i.e., when child user has a higher priority, the action (setting) of child user is performed ; paragraphs [0076], [0154]).

As per claim 7, Trundle discloses the method of claim 1, and further discloses further comprising: receiving, by the microprocessor executable home automation module (242), a number of occupants in the home location from the home automation system (alert 1040 indicating a number of occupant is sent to users, i.e., via mobile device 240 and native monitoring application 242; figures 2, 10; paragraph [0125]); determining, by the microprocessor executable home automation module (242), that the home location is occupied (presence of pet 1018 in the home is determined from alert 1040, i.e., via native monitoring application 242; figure 10; paragraph [0124]), wherein: during the retrieving, the microprocessor executable home automation module (242) retrieves alternate settings from the account of the at least one vehicle occupant (alert 1040 includes input control 1050 (alternate setting) that automatically control the thermostat 1014 for the pet's comfort, i.e., retrieving input control 1050 by native monitoring application 242 from user's account; figure 10; paragraph [0130]); and during the generating, the microprocessor executable home automation module (242) generates commands to implement the alternate settings (when the user activates input control 1050, i.e., generating commands, thermostat 1014 maintains a temperature comfortable for the pet; paragraph [0130]).

As per claim 9, Trundle discloses the method of claim 1, and further discloses further comprising: receiving, by the home automation system (control unit 210), the commands; and configuring features of the home automation system in response to receiving the commands (communicate with module 230 to perform thermostat control, i.e., receiving commands to configure thermostat; figure 2; paragraph [0049]).

As per claim 10, Trundle discloses the method of claim 1, and further discloses further comprising determining, by the microprocessor executable home automation module (242), that the vehicle is leaving the one of the at least one home locations (detects when user is moving away (leaving) from a home, i.e., automobile leaving home; paragraphs [0065], [0139]); connecting, by the microprocessor executable home automation module (242), to the home automation system of the one of the at least one home locations (mobile devices 240, i.e., having native monitoring application 242 thereon, communicate with control unit 210 (home automation system), at a monitored property (home location); figure 2; paragraphs [0055], [0062]); receiving, by the microprocessor executable home automation module (242), the state of features of the home automation system (enables users to monitor; paragraph [0063]); retrieving, by the microprocessor executable home automation module (242), from the account of the at least one vehicle occupant, departure settings for features of the home automation system (tracks mobile device's physical location for use to control settings (departure setting) when user is going away from home; paragraph [0065]); generating, by the microprocessor executable home automation module (242), commands to implement the departure settings (tracks mobile device's physical location for use to control (generating commands) settings (departure settings) when user is going away from home; paragraph [0065]); and sending, by the microprocessor executable home automation module, the commands to the home automation system (mobile devices 240, i.e., having native monitoring application 242 thereon, communicate with (send commands to) control unit 210 (home automation system); figure 2; paragraphs [0055], [0062]).

As per claim 12, Trundle discloses a non-transitory computer readable medium having instructions stored thereon that, when executed by a microprocessor executable home automation module (242), perform a method comprising: receiving an identity (permission system based on user-specific passcodes, i.e., receiving an identity; paragraph [0075]) of at least one occupant (user; paragraph [0075]) of a vehicle (automobile (vehicle); paragraph [0139]); accessing an account of the at least one vehicle occupant, the account defining at least one home location for the identified vehicle occupant (communicating with control unit 210 (home automation system), at a monitored property (home location), i.e., an account; figure 2; paragraphs [0055], [0062]); connecting to a home automation system of one of the at least one home locations (communicating with control unit 210 (home automation system), at a monitored property (home location); figure 2; paragraphs [0055], [0062]); receiving a state of features of the home automation system (native monitoring application 242 enables users to monitor; paragraph [0063]); retrieving, from the account of the at least one vehicle occupant, arrival settings for features of the home automation system (tracking mobile device's physical location for use to control settings (arrival settings) when user is going toward home; paragraph [0065]); generating commands to implement the arrival settings (tracking mobile device's physical location for use to control (generating commands) settings when user is going toward home; paragraph [0065]); and sending the commands to the home automation system (communicating with (send commands to) control unit 210 (home automation system); figure 2; paragraphs [0055], [0062]).

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34098

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
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As per claim 13, Trundle discloses the non-transitory computer readable medium of claim 12, and further discloses further comprising: sending a first set of commands to the home automation system when the vehicle is a first distance from the home location (system maintains (first set of commands) appliances in an off state when user, i.e., in a vehicle, is at a first distance from the property 1210 (home location); figure 12; paragraph [0140]); and sending a second set of commands to the home automation system when the vehicle is a second distance from the home location (system turns (second set of commands) the thermostat 1216 to an on state when user, i.e., in a vehicle, is at a second distance from the property 1210 (home location); figure 12; paragraph [0140]), wherein the first distance is greater than the second distance (second distance is closer to the property (home location); figure 12; paragraph [0141]).

As per claim 14, Trundle discloses the non-transitory computer readable medium of claim 12, and further discloses further comprising: receiving an identity of a first vehicle occupant and a second vehicle occupant (system identifies parent user (first vehicle occupant) and child user (second vehicle occupant); paragraph [0076]) determining a conflict between at least one setting of the first vehicle occupant and at least one setting of the second vehicle occupant (conflicting input (conflict) may occur between first action (setting) of parent user (first vehicle occupant) and second action (setting) of child user (second vehicle occupant); paragraph [0076]); determining a first priority of the first vehicle occupant and a second priority of the second vehicle occupant (parent user (first vehicle occupant) has a higher priority (first priority) than child user, i.e. having lower priority (second priority); paragraph [0076]); when the first priority is greater than the second priority, generating commands to implement the at least one setting of the first vehicle occupant (native monitoring application 242 may perform only the first action (setting) of parent user (first vehicle occupant); paragraph [0076]); and when the second priority is greater than the first priority, generating commands to implement the at least one setting of the second vehicle occupant (system 200 resolves the conflict based on user priority, i.e., when child user has a higher priority, the action (setting) of child user is performed ; paragraphs [0076], [0154]).

As per claim 15, Trundle discloses a vehicle control system of a vehicle, comprising: a memory; and a microprocessor (mobile devices 240; paragraph [0043]) in communication with the memory (mobile devices 240 is a smart phone; paragraph [0054]), the microprocessor operable to execute a home automation module (mobile devices 240 can host native monitoring applications 242 (home automation module); figure 2; paragraph [0054]), the home automation module operable to: receive an identity (permission system based on user-specific passcodes, i.e., receiving an identity; paragraph [0075]) of at least one occupant (user; paragraph [0075]) of the vehicle (automobile (vehicle); paragraph [0139]); access an account of the at least one vehicle occupant, the account defining at least one home location for the identified vehicle occupant (communicating with control unit 210 (home automation system), at a monitored property (home location), i.e., an account; figure 2; paragraphs [0055], [0062]); connect to a home automation system of one of the at least one home locations (communicating with control unit 210 (home automation system), at a monitored property (home location); figure 2; paragraphs [0055], [0062]); receive a state of features of the home automation system (native monitoring application 242 enables users to monitor; paragraph [0063]); retrieve, from the account of the at least one vehicle occupant, arrival settings for features of the home automation system (tracking mobile device's physical location for use to control settings (arrival settings) when user is going toward home; paragraph [0065]); generate a first set of commands and a second set of commands to implement the arrival settings (a first set and second set of settings are shown at times 1 and 2, i.e., generating commands; figure 12; paragraphs [0073], [0140], [0141]); send the first set of commands to the home automation system (at time 1, monitoring system maintains thermostat 1216 in an off setting, i.e., sending first set of commands to control unit 210; figure 12; paragraph [0140]) when the vehicle is a first distance from the home location (time 1, figure 12); and send the second set of commands to the home automation system (monitoring system turns the thermostat 1216 on, i.e., sending second set of commands to controller unit 210; figure 12; paragraph [0141]) when the vehicle is a second distance from the home location (time 2, figure 12), wherein the first distance is greater than the second distance (time 1 is greater than time 2; figure 12).

Claims 6 and 11 lack an inventive step under PCT Article 33(3) as being obvious over Trundle.

As per claim 6, Trundle discloses the method of claim 5. Trundle does not disclose wherein when the first vehicle occupant is identified as a driver, the first priority is greater than the second priority. Trundle does disclose wherein when the first vehicle occupant is identified as a parent (parent user (first vehicle occupant) is identified by permission system; paragraph [0075]), the first priority is greater than the second priority (parent user has higher priority (first priority) than the child user having lower priority (second priority); paragraph [0076]). In order to control a home system based on automobile occupancy (Trundle, paragraphs [0139], [0159]), it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify Trundle's home automation module to incorporate identifying the driver because it is commonly known in the art that parents in a vehicle are frequently the driver, as opposed to the children. Furthermore, one of ordinary skill in the art would have recognized that identifying the driver of a vehicle is the functional equivalent of identifying the parent, and only routine skill in the art is needed to select from known and functionally equivalent structures.

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34098

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
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As per claim 11, Trundle discloses the method of claim 1, and further discloses wherein identifying the at least one vehicle occupant comprises: identifying facial features associated with the at least one vehicle occupant via at least one image sensor (system 200 may process the image data (i.e., via an image sensor) using facial type recognition technique to identify an user; paragraph [0148]); determining whether the identified facial features associated with the at least one vehicle occupant match user characteristics stored in a memory (system 200 may process the image data (identified facial features) using facial type recognition technique, i.e., matching user characteristics, to identify an user; paragraph [0148]), and identifying the at least one vehicle occupant further comprises: prompting the at least one vehicle occupant for identification information; receiving identification information from the at least one vehicle occupant; and storing the identification information received from the at least one vehicle occupant in the memory (system 200 determines an identity of an user based on a user-specific code (identification information), i.e., prompting, receiving, and storing user-specific code; paragraph [0149]). Trundle does not disclose when the identified facial features associated with the at least one vehicle occupant do not match the user characteristics stored in the memory, identifying the at least one vehicle occupant further. In order to determine an identity of the user (Trundle, paragraph [0149]), it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Trundle's method to incorporate further identification using identification information when the identified facial features do not match the user characteristics stored in the memory, since it was known in the art facial recognition identification can fail due to inconsistent appearance of the user such as wearing eyeglasses and hats, and different codes can be assigned to different users to detect user identity (Trundle, paragraph [0149]).

Claims 1, 4 lack an inventive step under PCT Article 33(3) as being obvious over US 2013/0083805 A1 (LU).

As per claim 1, Lu discloses a method, comprising: receiving, by a microprocessor executable home automation module (web page of a Smart Gateway Power Controller (SGPC); paragraph [0123]), an identity of at least one occupant of a vehicle (user (vehicle occupant) opens SGPC with a smartphone using security information (identity); paragraph [0123]); accessing, by the microprocessor executable home automation module, an account of the at least one occupant (SGPC requests Home-bound content (HBC) server (account) with the context of the interactions with consumers (occupant); paragraph [0241]), the account defining at least one home location for the vehicle occupant (context of interaction includes the location (home location) of the device, i.e., of the consumer; paragraphs [0241]-[0245]); connecting, by the microprocessor executable home automation module, to a home automation system of one of the at least one home locations (SGPC is connected with a consumer device (home automation system), i.e., at home location; paragraph [0233]) ; receiving, by the microprocessor executable home automation module, a state of features of the home automation system (SGPC shows switch status (state of features) of the connected consumer devices (home automation system); paragraph [0124]); retrieving, by the microprocessor executable home automation module, from the account of the at least one vehicle occupant, arrival settings for features of the home automation system (user (vehicle occupant) clicks a button to choose a time based or event based schedule (arrival setting); paragraphs [0125], [0232]); generating, by the microprocessor executable home automation module, commands to implement the arrival settings; and sending, by the microprocessor executable home automation module, the commands to the home automation system (user clicks a button to turn on or off a switch, i.e., generating and sending commands to SGPC; paragraph [0125]). Lu does not disclose wherein the occupant is a occupant of a vehicle. In order to access the SGPC outside the home's WiFi network (Lu; paragraph [0205]), it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to utilize Lu's smartphone from within a car, since it was known in the art that smartphones are operable inside a vehicle.

As per claim 4, Lu discloses the method of claim 1, and further discloses wherein the settings comprise at least one of activating, deactivating, and changing a setting of at least one of an interior light, an exterior light, a security system, an interior entertainment system, an exterior entertainment system, a thermostat, and a door lock of the home automation system (SGPC controls a TV (interior entertaining system) and light (interior light); paragraph [0165]).

Claim 8 lacks an inventive step under PCT Article 33(3) as being obvious over Trundle in view of the article "Meet Samsung's version of Apple AirPlay" from CNET (hereinafter "CNET").

As per claim 8, Trundle discloses the method of claim 1. Trundle does not disclose determining, by the microprocessor executable home automation module, one of an audio channel and a video channel presenting a media item to the at least one vehicle occupant; and during the generating, generating commands to tune an entertainment system of the home automation system to one of the audio channel and the video channel presenting the media item to the at least one vehicle occupant. CNET discloses determining, by the microprocessor executable home automation module (Samsung Galaxy S III; page 7, paragraph 2), one of an audio channel and a video channel presenting a media item to the at least one vehicle occupant (I (vehicle occupant) successfully listened to music (audio channel) and HD video streamed (video channel), i.e., determining audio and video channel; page 8, paragraph 1); and during the generating, generating commands to tune an entertainment system of the home automation system to one of the audio channel and the video channel presenting the media item to the at least one vehicle occupant (AllShare Cast Hub (home automation system) mirrors what is displayed (media item) on Samsung handset's screen to a compatible HDTV (entertainment system), i.e., tuning video channel; page 4, paragraph 1). In order to play music and video (Trundle; paragraph [0054]), it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Trundle's home automation module to incorporate CNET's video mirroring functionality because, as CNET discloses, videos on a mobile device can be played on a 55-inch HDTV, to increase video and audio quality and entertainment (CNET, page 8, paragraph 1).

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: Jason H. Vick
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)

Applicant's or agent's file reference 6583-559-PCT	Date of mailing *(day/month/year)* 15 SEP 2014 **FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No. PCT/US14/34108	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 6583-559-PCT	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US14/34108	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:

VIRTUAL PERSONALITY VEHICLE COMMUNICATIONS WITH THIRD PARTIES

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.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US14/34108

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - G01C 21/36; G10L 13/00 (2014.01)
CPC - H04L 67/12; G06F 17/30654; G06Q 50/30
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): G10L 15/26; G01C 21/36; G10L 13/00; B60Q 1/26 (2014.01)
CPC Classification(s): H04L 67/12, 67/18, 67/306; G06F 17/30654; B60R 16/0373; G06Q 50/30

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: vehicle, communication, personal, profile, context

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 2010/0145700 A1 (KENNEWICK, R et al.) 10 June 2010; Abstract; Figures 1, 5; Paragraphs [0011], [0012], [0034], [0094], [0121], [0122].	1-6, 10-15 --- 7-9
Y	US 2012/0289253 A1 (HAAG, S et al.) 15 November 2012; Paragraphs [0062], [0063].	7
Y	US 2010/0137037 A1 (BASIR, O) 03 June 2010; Paragraphs [0006], [0007], [0024].	8, 9

☐ 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
18 August 2014 (18.08.2014)	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: Jason H. Vick
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 6583-559-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US14/34108	15 April 2014 (15.04.2014)	15 April 2013 (15.04.2013)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G01C 21/36; G10L 13/00 (2014.01)
CPC - H04L 67/12; G06F 17/30654; G06Q 50/30

Applicant FLEXTRONICS AP, LLC

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

- [x] 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
- [x] 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	18 August 2014 (18.08.2014)	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/US14/34108

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/US14/34108

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	7-9	YES
	Claims	1-6, 10-15	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 1-6, and 10-15 lack novelty under PCT Article 33(2) as being anticipated by US 2010/0145700 A1 to KENNEWICK et al. (hereinafter 'Kennewick').

As per claim 1, Kennewick discloses a system for vehicle to another party communications (communication between a vehicle system and remote devices (another party); Abstract) comprising: a vehicle personality module adapted to create a vehicle personality (a personality module attached to the vehicle enabling vehicle personalities to be created; Paragraph [0012]); a communications system that utilizes the created vehicle personality for one or more communications instead of a user's profile (invoking the vehicle personalities by a speech unit that simulates human characteristics (utilizes the created vehicle personality) when presenting results to user's questions based on responses from probabilistic or fuzzy set decision sources (instead of a user's profile); Paragraphs [0012], [0034], [0094]).

As per claim 2, Kennewick discloses the system of claim 1. Kennewick additionally discloses, wherein the vehicle personality is based on one or more user profiles (the invoked personality of the vehicle uses a user history and preferences (based on one or more user profiles); Paragraph [0034]).

As per claim 3, Kennewick discloses the system of claim 1. Kennewick additionally discloses, wherein the vehicle personality utilizes a vehicle communications module to send and receive communications (the system personality 108 (vehicle personality) interfaces with network interface 116 (a vehicle communications module) to query data sources and return responses using the speech unit; Figure 5; Paragraphs [0121], [0122]).

As per claim 4, Kennewick discloses the system of claim 1. Kennewick additionally discloses, wherein the vehicle personality utilizes a user's communication device to send and receive communications (the system personality 108 (vehicle personality) communicates through the handheld device 36 speech unit interface (user's communication device) over a wireless link (send and receive communications); Figures 1, 5; Paragraphs [0011]).

As per claim 5, Kennewick discloses the system of claim 1. Kennewick additionally discloses, wherein one or more of an identifier and an icon is associated with the vehicle personality and sent with at least one communication (a symbol (icon) is translated by a domain agent of the personality 108 (the vehicle personality) to present to the user using the communication link; Figure 5; Paragraphs [0120], [0177]).

As per claim 6, Kennewick discloses the system of claim 1. Kennewick additionally discloses, wherein the vehicle personality is automatically utilized based on a determined context (the domain agent selects the personality 108 to be used (vehicle personality is automatically utilized) based on the context; Figure 5; Paragraph [0175]).

As per claim 10, Kennewick discloses the system of claim 1. Kennewick additionally discloses, wherein the one or more communications are for any user associated with the vehicle (for multiple users within a vehicle, the system determines which user is stating a command and applies the correct context; Paragraphs [0036], [0037]).

As per claim 11, Kennewick discloses a method for vehicle to another party communications (communication between a vehicle system and remote devices (another party); Abstract) comprising: creating a vehicle personality (a personality module attached to the vehicle enables personalities to be created; Paragraph [0012]); utilizing the created vehicle personality for one or more communications instead of a user's profile (invoking the vehicle personalities by a speech unit that simulates human characteristics (utilizes the created vehicle personality) when presenting results to user's questions based on responses from probabilistic or fuzzy set decision sources (instead of a user's profile); Paragraphs [0012], [0034], [0094]).

As per claim 12, Kennewick discloses the method of claim 11. Kennewick additionally discloses, wherein the vehicle personality is based on one or more user profiles (the invoked personality of the vehicle uses a user history and preferences (based on one or more user profiles); Paragraph [0034]).

As per claim 13, Kennewick discloses the method of claim 11. Kennewick additionally discloses, wherein the vehicle personality utilizes a vehicle communications module to send and receive communications (the system personality 108 (vehicle personality) interfaces with network interface 116 (a vehicle communications module) to query data sources and return responses using the speech unit; Figure 5; Paragraphs [0121], [0122]).

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

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34108

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 14, Kennewick discloses the method of claim 11. Kennewick additionally discloses, wherein the vehicle personality utilizes a user's communication device to send and receive communications (the system personality 108 (vehicle personality) communicates through the handheld device 36 speech unit interface (user's communication device) over a wireless link (send and receive communications); Figures 1, 5; Paragraphs [0011]).

As per claim 15, Kennewick discloses the method of claim 11. Kennewick additionally discloses, wherein one or more of: an identifier and an icon is associated with the vehicle personality and sent with at least one communication, the vehicle personality is automatically utilized based on a determined context, the determined context is a geographic area that prohibits phone usage while driving, the vehicle personality communicates directly with the another party, the vehicle personality intercepts one or more communications for a user of the vehicle, and the one or more communications are for any user associated with the vehicle (for multiple users within a vehicle (any user associated with the vehicle), the domain agent selects the personality 108 based on the correct context (the vehicle personality is automatically utilized based on a determined context) and user profile; Figure 5; Paragraphs [0036], [0175]).

Claim 7 lacks an inventive step under PCT Article 33(3) as being obvious over Kennewick in view of US 2012/0289253 A1 to HAAG et al. (hereinafter 'Haag').

As per claim 7, Kennewick discloses the system of claim 6. Kennewick does not disclose, wherein the determined context is a geographic area that prohibits phone usage while driving. Haag discloses wherein the determined context is a geographic area that prohibits phone usage while driving (based on locations, text to a travelling mobile device is delayed or prevented (prohibits phone usage while driving); Paragraphs [0062], [0063]). It would have been obvious to a person of ordinary skill in the art, at the time of the invention, to modify the system of Kennewick with the teaching of Haag, because by doing so, the system of Kennewick would provide improved safety by automatically inhibiting dangerous activities while driving based on vehicle location.

Claims 8 and 9 lack an inventive step under PCT Article 33(3) as being obvious over Kennewick in view of US 2010/0137037 A1 to (BASIR).

As per claim 8, Kennewick discloses the system of claim 1. Kennewick does not disclose wherein the vehicle personality communicates directly with the another party. Basir discloses, wherein the vehicle personality communicates directly with the another party (a vehicle integrated intelligent information manager (vehicle personality) automatically sends a response, without driver intervention, to a third-party; Paragraphs [0006], [0007], [0024]). It would have been obvious to a person of ordinary skill in the art, at the time of the invention, to modify the system of Kennewick with the teaching of Basir, because by doing so, the system of Kennewick would provide intelligent, automated responses for the driver to send based on the driver's user profile and without distracting the driver from navigation.

As per claim 9, Kennewick discloses the system of claim 1. Kennewick does not disclose, wherein the vehicle personality intercepts one or more communications for a user of the vehicle. Basir discloses, wherein the vehicle personality intercepts one or more communications for a user of the vehicle (a vehicle integrated intelligent information manager (vehicle personality) filters emails (intercepts) and automatically sends a response, without driver intervention, to a third-party; Paragraphs [0006], [0007], [0024]). It would have been obvious to a person of ordinary skill in the art, at the time of the invention, to modify the system of Kennewick with the teaching of Basir, because by doing so, the system of Kennewick would provide automated filtering of incoming messages to reduce driver interruptions and summarize communications.

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: RICHARD E. ZELENKA
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)*	22 AUG 2014
Applicant's or agent's file reference: 6583-562-PCT	**FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No.: PCT/US2014/034101	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 6583-562-PCT	**FOR FURTHER ACTION**	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US2014/034101	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 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. 24

☒ 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/US2014/034101

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - G07C 5/08 (2014.01)
USPC - 701/33.4
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) - B60N 2/02; G07C 5/00, 5/08 (2014.01)
USPC - 700/17, 701/29.6, 33.4, 36, 49

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
CPC - B60N 2/0248, 2/0296; G07C 5/0808 (2014.02)

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,557,752 B1 (YACOOB) 06 May 2003 (06.05.2003) entire document	1-15
A	US 2004/0153356 A1 (LOCKWOOD et al) 05 August 2004 (05.08.2004) entire document	1-15
A	US 2012/0316720 A1 (HYDE et al) 13 December 2012 (13.12.2012) entire document	1-15
A	US 2011/0077808 A1 (HYDE et al) 31 March 2011 (31.03.2011) entire document	1-15
A	US 2009/0284359 A1 (HUANG et al) 19 November 2009 (19.11.2009) entire document	1-15
A	US 2004/0217850 A1 (PERTTUNEN et al) 04 November 2004 (04.11.2004) 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
03 August 2014	22 AUG 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)

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: RICHARD E. ZELENKA
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)*	22 AUG 2014
Applicant's or agent's file reference 6583-562-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2014/034101	15 April 2014	15 April 2013

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G07C 5/08 (2014.01)
USPC - 701/33.4

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	03 August 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/US2014/034101

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/US2014/034101

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 Lockwood et al., hereinafter referred to as Lockwood.

Regarding claims 1,14,15, Lockwood teaches a method [claim 1], a non-transitory computer readable medium having instructions stored thereon [claim 14] and a vehicle maintenance and warranty compliance detection system comprising a vehicle control system [claim 15] (systems and methods for automation and enhancement of customer service in vehicle distress situations, [abstract]; application logic, [0031]), comprising: receiving sensor data from one or more vehicle sensors (report when vehicle being driven by other than identified driver as well as distance travelled by the vehicle, [0023]); identifying, from the sensor data, an identity of a user of a vehicle (report when vehicle being driven by other than identified driver using voice, eye, fingerprint, etc., [0023]; a police report of a driving under the influence or excessive speed violation in connection with the vehicle while being driven by a particular driver [identifying a driver] could trigger an automated customer service response, [0026]); determining, from the sensor data, if a user is not in compliance with a user vehicle operating term (monitoring of distress events, or lack thereof, may be utilized by a leasing agency to provide credits or surcharges to the lessee based upon actual usage rather than estimated usage wherein such distress events may include, without limitation, speeding, excessive mileage traveled, improper or proper compliance with suggested regular maintenance, unreported collisions or bumps, ABS deployment, numbers of instances of hard breaking and/or rapid acceleration, [0035]); and taking action if the user is not in compliance with a user vehicle operating term (surcharges may apply based on distress events, [0035]).

Regarding claim 2, Lockwood teaches the user vehicle operating term is at least one of a maintenance standard, a warranty requirement and a user operating restriction (a police report of a driving under the influence or excessive speed violation in connection with the vehicle while being driven by a particular driver [identifying a driver] could trigger an automated customer service response, [0026]; monitoring of distress events, or lack thereof, may be utilized by a leasing agency to provide credits or surcharges to the lessee based upon actual usage rather than estimated usage wherein such distress events may include, without limitation, speeding, excessive mileage traveled, improper or proper compliance with suggested regular maintenance, unreported collisions or bumps, ABS deployment, numbers of instances of hard breaking and/or rapid acceleration, [0035]).

Regarding claim 3, Lockwood teaches comparing the sensor data to at least one of vehicle maintenance standards, vehicle warranty requirements and user profile operating restrictions (a police report of a driving under the influence or excessive speed violation in connection with the vehicle while being driven by a particular driver [identifying a driver] could trigger an automated customer service response, [0026]; monitoring of distress events, or lack thereof, may be utilized by a leasing agency to provide credits or surcharges to the lessee based upon actual usage rather than estimated usage wherein such distress events may include, without limitation, speeding, excessive mileage traveled, improper or proper compliance with suggested regular maintenance, unreported collisions or bumps, ABS deployment, numbers of instances of hard breaking and/or rapid acceleration, [0035]).

Regarding claim 4, Lockwood teaches the user is not in compliance with a user vehicle operating term if the comparison results in one or more characteristics of vehicle maintenance standards (monitoring of distress events, or lack thereof, may be utilized by a leasing agency to provide credits or surcharges to the lessee based upon actual usage rather than estimated usage wherein such distress events may include, without limitation, speeding, excessive mileage traveled, improper or proper compliance with suggested regular maintenance, unreported collisions or bumps, ABS deployment, numbers of instances of hard breaking and/or rapid acceleration, [0035]), vehicle warranty requirements and user profile operating restrictions not satisfied.

Regarding claim 5, Lockwood teaches the taking action comprises noticing a third party if the user is not in compliance with a user vehicle operating term (vehicle leasing agency, [0035]).

Regarding claim 6, Lockwood teaches the third party is at least one of an insurance provider, warranty provider, authorized monitor (vehicle leasing agency, [0035]) and user.

Regarding claim 7, Lockwood teaches comprising updating a user profile database regarding the user vehicle not in compliance (warranty information associated with the vehicle or a customer profile connected with either the usual driver of the vehicle and/or the vehicle itself, [0008]; monitoring of distress events, or lack thereof, may be utilized by a leasing agency to provide credits or surcharges to the lessee based upon actual usage rather than estimated usage, [0035]; [therefore it is interpreted that a lessee profile is updated in a database]).

Regarding claim 8, Lockwood teaches the one or more vehicle sensors include an odometer (excessive mileage traveled, [0035]), a tachometer, an oil level meter and an image sensor.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2014/034101

Supplemental Box

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

Regarding claim 9, Lockwood teaches the taking action comprises providing an alert (electronic notification, [0063]).

Regarding claim 10, Lockwood teaches the providing an alert comprises a visual alert, an audio alert, emergency responder alert, and alert to an authorized monitor (vehicle leasing agency, [0035]).

Regarding claim 11, Lockwood teaches identifying the one or more characteristics of vehicle maintenance standards, vehicle warranty requirements and user profile operating restrictions not satisfied (monitoring of distress events, or lack thereof, may be utilized by a leasing agency to provide credits or surcharges to the lessee based upon actual usage rather than estimated usage wherein such distress events may include, without limitation, speeding, excessive mileage traveled, improper or proper compliance with suggested regular maintenance, unreported collisions or bumps, ABS deployment, numbers of instances of hard breaking and/or rapid acceleration, [0035]).

Regarding claim 12, Lockwood teaches the taking action comprises noticing a third party if the user is not in compliance with a user vehicle operating term (vehicle leasing agency, [0035]).

Regarding claim 13, Lockwood teaches receiving a query from a warranty provider if a user is not in compliance with a vehicle warranty requirement (the response plan may also be impacted by other criteria such as insurance coverage connected with the vehicle, warranty information associated with the vehicle or a customer profile connected with either the usual driver of the vehicle and/or the vehicle itself, [0008]; retrieval of customer warranty information, [0096]; monitoring of distress events, or lack thereof, may be utilized by a leasing agency to provide credits or surcharges to the lessee based upon actual usage rather than estimated usage wherein such distress events may include, without limitation, speeding, excessive mileage traveled, improper or proper compliance with suggested regular maintenance, unreported collisions or bumps, ABS deployment, numbers of instances of hard breaking and/or rapid acceleration, [0035]).

Claims 1-15 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.

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: JASON H. VICK
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)

Applicant's or agent's file reference 6583-565-PCT	Date of mailing *(day/month/year)* 03 SEP 2014 **FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No. PCT/US2014/034103	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 6583-565-PCT	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US2014/034103	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 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.

International application No.
PCT/US2014/034103

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - G07C 5/08 (2014.01)
USPC - 701/33.4
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) - G07C 5/00, 5/08 (2014.01)
USPC - 701/32.1, 33.4, 533

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
CPC - G07C 5/008, 5/08 (2014.02)

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2010/0087984 A1 (JOSEPH) 08 April 2010 (08.04.2010) entire document	1-15
A	US 2011/0184642 A1 (ROTZ et al) 28 July 2011 (28.07.2011) entire document	1-15
A	US 2004/0225557 A1 (PHELAN et al) 11 November 2004 (11.11.2004) entire document	1-15
A	US 2004/0153356 A1 (LOCKWOOD et al) 05 August 2004 (05.08.2004) entire document	1-15
A	US 2005/0065716 A1 (TIMKO et al) 24 March 2005 (24.03.2005) 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
04 August 2014	03 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: Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: JASON H. VICK
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)*	03 SEP 2014
Applicant's or agent's file reference 6583-565-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US2014/034103	15 April 2014	15 April 2013

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G07C 5/08 (2014.01)
USPC - 701/33.4

Applicant FLEXTRONICS AP, LLC

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

- [X] 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
- [X] 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	04 August 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/US2014/034103

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/US2014/034103

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	5,10,13	YES
	Claims	1-4,6-9,11,12,14,15	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 1-4,6-9,11,12,14,15 lack novelty under PCT Article 33(2) as being anticipated by Joseph.

Regarding claims 1,11,14,15, Joseph teaches a driver facts system [claim 1], a driver facts management method [claims 11,14] (Systems, devices, and techniques for remotely tracking vehicle and driver behavior, [abstract]) and a non-transitory computer readable information storage media, having stored thereon instructions [claim 15] (central host computer system, [0026]) comprising: one or more systems that track user behavior, the user behavior including one or more of: one or more user actions and one or more user interactions with a vehicle (on-board vehicle monitoring device to gather information on vehicle diagnostics, location, and/or acceleration/deceleration and wirelessly transmit some or all of the data to a central host computer system, [0026]); and a storage system adapted to store the user behavior (central host computer system, [0026]), 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 (Information received at the host may be stored and compiled to create metrics for one or many drivers and/or vehicles, [0026]; fig.10; fig.11).

Regarding claim 2, Joseph teaches the one or more systems include one or more of: a vehicle control recognition module, an environmental control module, an object detection module (proximity sensor may be used to determine how close the vehicle is to another vehicle or another object in front of the vehicle, [0026]), a gesture recognition module and an infotainment monitoring module.

Regarding claim 3, Joseph teaches the storage system is stored on one or more of a user device, a remote device and a central repository (central host computer system, [0026]).

Regarding claim 4, Joseph teaches information from one or more vehicle sensors is also used to track user behavior (proximity sensor may be used to determine how close the vehicle is to another vehicle or another object in front of the vehicle wherein such information may be useful in determining whether a driver is following the preceding vehicle in traffic too closely, [0026]).

Regarding claim 6, Joseph teaches 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 (Following the driver and vehicle data being compiled at block 1130, some or all these statistics may be displayed to the user, at block 1140, [0077]).

Regarding claim 7, Joseph teaches the user behavior is used as input to determine whether an intended vehicle route should be modified (a driver may take meandering Routes, [0003]; [therefore it is interpreted that the system may recognize meandering routes and recognize better routes]).

Regarding claim 8, Joseph teaches 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 (a driver may take meandering Routes, [0003]; [therefore it is interpreted that the system may recognize meandering routes and recognize better routes]), preferences, prior route modification decisions, and user input.

Regarding claim 9, Joseph teaches the tracked user behavior is automatically forwarded to 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 (Following the driver and vehicle data being compiled at block 1130, some or all these statistics may be displayed to the user, at block 1140, [0077]).

Regarding claim 12, Joseph teaches the tracking is performed by one or more of: a vehicle control recognition module, an environmental control module, an object detection module (proximity sensor may be used to determine how close the vehicle is to another vehicle or another object in front of the vehicle, [0026]), a gesture recognition module and an infotainment monitoring module.

Claims 5,10,13 lack an inventive step under PCT Article 33(3) as being obvious over Joseph.

Regarding claim 5, Joseph does not disclose disabling of the tracking of user behavior is prohibited. However, Joseph does disclose the invention may be used to prevent misuse of a vehicle by a driver ([0003]). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to prohibit disabling of the tracking systems in order to ensure a driver cannot circumvent the safeguards.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2014/034103

Supplemental Box

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

Regarding claim 10, Joseph does not disclose the user behavior is not modifiable by the user. However, Joseph does disclose the invention may be used to prevent misuse of a vehicle by a driver ([0003]). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to ensure a user cannot modify user behavior in order to ensure a driver cannot circumvent the safeguards.

Regarding claim 13, Joseph teaches the storage system is stored on one or more of a user device, a remote device and a central repository (central host computer system, [0026]), information from one or more vehicle sensors is also used to track user behavior (Information received at the host may be stored and compiled to create metrics for one or many drivers and/or vehicles, [0026]; fig.10; fig.11), 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 (Following the driver and vehicle data being compiled at block 1130, some or all these statistics may be displayed to the user, at block 1140, [0077]), the user behavior is used as input to determine whether an intended vehicle route should be modified, 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 (a driver may take meandering Routes, [0003]; [therefore it is interpreted that the system may recognize meandering routes and recognize better routes]), preferences, prior route modification decisions, and user input, and/or the tracked user behavior is automatically forwarded to 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 (Following the driver and vehicle data being compiled at block 1130, some or all these statistics may be displayed to the user, at block 1140, [0077]), but does not explicitly teach disabling of the tracking of user behavior is prohibited. However, Joseph does disclose the invention may be used to prevent misuse of a vehicle by a driver ([0003]). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to prohibit disabling of the tracking systems in order to ensure a driver cannot circumvent the safeguards.

Claims 1-15 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.

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: Timothy E. Buckley
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: 6583-567-PCT	**FOR FURTHER ACTION** See paragraphs 1 and 4 below
International application No.: PCT/US14/34114	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 6583-567-PCT	**FOR FURTHER ACTION**	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US14/34114	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. 25

   ☒ 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/US14/34114

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - G06Q 10/10; H04W 68/12, 8/08 (2014.01)
CPC - G01C 21/362; G06Q 10/1093; H04L 67/1095
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): G06Q 50/30; G01C 21/36; G06Q 10/10; H04W 4/02, 68/12, 8/08 (2014.01)
CPC Classification(s): G01C 21/362; G06Q 10/025, 10/1093; H04L 67/22, 67/18, 67/1095

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: synchronize, vehicle, calendar, alarm, notice, factor

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 2012/0197523 A1 (KIRSCH) 02 August 2012; Figures 1-4, 10; Paragraphs [0043], [0053], [0056], [0064], [0086].	1, 2, 8-10 --- 3-7, 11-15
Y	EP 1909069 B1 (BAUER, L et al.) 08 December 2010; Paragraphs [0027]-[0028].	3, 11
Y	US 2011/0090078 A1 (KIM, F et al.) 21 April 2011; Figure 3; Paragraphs [0029], [0041].	4-7, 12-15
Y	US 2012/0254804 A1 (SHEHA, M et al.) 04 October 2012; Paragraphs [0849]-[0851].	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
18 August 2014 (18.08.2014)	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: Timothy E. Buckley
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: 6583-567-PCT	**FOR FURTHER ACTION** See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US14/34114	15 April 2014 (15.04.2014)	15 April 2013 (15.04.2013)

International Patent Classification (IPC) or both national classification and IPC
IPC(8) - G06Q 10/10; H04W 68/12, 8/08 (2014.01)
CPC - G01C 21/362; G06Q 10/1093; H04L 67/1095

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	18 August 2014 (18.08.2014)	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/US14/34114

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/US14/34114

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	3-7, 11-15 –	YES
	Claims	1, 2, 8-10	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, 2, and 8-10 lack novelty under PCT Article 33(2) as being anticipated by US 2012/0197523 A1 (KIRSCH).

As per claim 1, Kirsch discloses a vehicle system comprising: a vehicle (vehicle 110; Figure 1); a vehicle control system coupled to said vehicle (an in-vehicle system 112 (a vehicle control system) with a short-range communication link; Abstract; Figure 3; Paragraph [0043]) and a communications unit coupled to said vehicle control system (a vehicle-connect application 212 facilitates communication using Bluetooth connecting the mobile device and in-vehicle system; Figure 2; Paragraph [0053]), wherein said vehicle control system synchronizes a calendar with said vehicle control system (the in-vehicle control system calendar module 214 converts data to a vehicle format for transfer (synchronizes a calendar) and display in the vehicle at block 418; Figures 2, 4; Paragraph [0056]) and generates a notice for a first user based on an event in said calendar and a supplemental factor (interface screen 1002 automatically displays the notification to the user based on a calendar entry and matching calendar metadata (a supplemental factor); Figure 10; Paragraphs [0064], [0086]).

As per claim 2, Kirsch discloses the vehicle system of claim 1. Kirsch additionally discloses wherein said first user is associated with said vehicle (user interface screen of the in-vehicle display notifies the user, within the vehicle, that vehicle service is due soon; Figure 7A; Paragraphs [0021], [0040]).

As per claim 8, Kirsch discloses the vehicle system of claim 1. Kirsch additionally discloses, wherein said communications unit is one or more of a sensor, transceiver, or transmitter (the vehicle connect, VC, application communicates wirelessly (a transmitter) using Bluetooth protocols; Paragraph [0053]).

As per claim 9, Kirsch discloses a method comprising: receiving authorization from a first device to synchronize a calendar associated with said first device with a vehicle control system coupled to a vehicle (device 120 pairs with an in-vehicle system 112 (receiving authorization from a first device) to push calendar information from device 120 via vehicle connect application 212 (synchronize a calendar) to the in-vehicle system 112 (vehicle control system); Abstract; Figures 2, 3; Paragraphs [0043], [0053]); synchronizing said calendar with said vehicle control system (calendar module 214 converts data to a vehicle format for transfer (synchronizing said calendar) and display in the vehicle at block 418; Figures 2, 4; Paragraph [0056]); and generating a smart alarm to a first user based on an event in said calendar and a supplemental factor (interface screen 1002 automatically displays the notification of options (a smart alarm) to the user based on a calendar entry (an event) and matching calendar metadata (supplemental factor); Figure 10; Paragraphs [0064], [0086]).

As per claim 10, Kirsch discloses the method of claim 9. Kirsch additionally discloses, wherein said first device is associated with said vehicle (device 120 (said first device) is paired with the in-vehicle system; Figure 2; Paragraph [0043]).

Claims 3 and 11 lack an inventive step under PCT Article 33(3) as being obvious over Kirsch in view of EP 1,909,069 B1, to BAUER et al. (hereinafter 'Bauer').

As per claim 3, Kirsch discloses the vehicle system of claim 1. Kirsch does not disclose, wherein said supplemental factor is based on an amount of traffic from a departure point to an arrival point. Bauer discloses wherein said supplemental factor is based on an amount of traffic from a departure point to an arrival point (a message is displayed for scheduled appointments based on the actual traffic situation (an amount of traffic) in computing a route to a connecting destination (a departure point to an arrival point); Paragraphs [0027], [0028]). It would have been obvious to a person of ordinary skill in the art, at the time of the invention, to modify the system of Kirsch with the teaching of Bauer, because by doing so, the system of Kirsch would provide enhanced notifications to the user on route to a scheduled appointment destination based on actual traffic conditions.

As per claim 11, Kirsch discloses the method of claim 10. Kirsch does not disclose, wherein said supplemental factor is based on an amount of time corresponding to traffic from a departure point to an arrival point. Bauer discloses wherein said supplemental factor is based on an amount of time corresponding to traffic from a departure point to an arrival point (a message is displayed for scheduled appointments based on the actual traffic situation and an estimated time interval to reach the destination (a departure point to an arrival point); Paragraphs [0027], [0028]). It would have been obvious to a person of ordinary skill in the art, at the time of the invention, to modify the method of Kirsch with the teaching of Bauer, because by doing so, the method of Kirsch would provide enhanced notifications to the user on route to destinations of scheduled appointments based on temporal order and actual traffic conditions.

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

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34114

Box No. VII Certain defects in the international application

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

Claim 11 is objected to under PCT Rule 66.2(a)(iii) as containing the following defects in the form or contents thereof: Claim 11, lines 1-2 recite "wherein said supplemental factor based on an amount of time". As best understood, this limitation is considered to be a typographical error and will be interpreted as "wherein said supplemental factor is based on an amount of time".

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34114

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:

Claim 7 is objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claim 7 is indefinite for the following reason(s): Claim 7 refers to "The vehicle system of claim 5, wherein at least one of said set of conditions" in line 1. There is a lack of antecedent basis for this limitation in the claim. As best understood, the claim is interpreted to read "The vehicle system of claim 6, wherein at least one of said set of conditions".

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34114

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:
-***-Continued from Previous Supplemental Box-***-

Claims 4-7, and 12-14 lack an inventive step under PCT Article 33(3) as being obvious over Kirsch in view of US 2011/0090078 A1, to KIM et al. (hereinafter 'Kim').

As per claims 4 and 12, Kirsch discloses the vehicle system of claim 1 and the method of claim 10, respectively. Kirsch does not disclose, 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. Kim discloses 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 (a user has transportation options between locations, including walking, a personal vehicle or a public vehicle and a departure alert is generated according to an event (supplemental factor) depending on a user departure buffer, which is the amount of time between the current time value and departure time value (amount of time required for said first user to arrive at said vehicle); Abstract; Figure 3; Paragraphs [0029], [0040], [0045]). It would have been obvious to a person of ordinary skill in the art, at the time of the invention, to modify the system and method of Kirsch with the teaching of Kim, because by doing so, the system and method of Kirsch would provide the capability of configuring departure alerts dependent upon a threshold criteria to remind the user of the necessary time buffer to arrive at the location of the scheduled appointment at the intended time.

As per claim 5, Kirsch discloses the vehicle system of claim 1. Kirsch does not disclose wherein said notice is provided to a second user. Kim discloses, wherein said notice is provided to a second user (a conflict alert (notice) is generated for notifying another event participant (a second user); Paragraph [0041]). It would have been obvious to a person of ordinary skill in the art, at the time of the invention, to modify the system of Kirsch with the teaching of Kim, because by doing so, the system of Kirsch would provide a contextual alert dependent on multiple event participants' estimated travel times.

As per claim 6, Kirsch discloses the vehicle system of claim 1. Kirsch does not disclose wherein said notice is provided to a second user based on at least one of a set of conditions. Kim discloses, wherein said notice is provided to a second user based on at least one of a set of conditions (a conflict alert (notice) is generated for notifying another event participant (a second user) based on estimated travel times (conditions); Paragraph [0041]). It would have been obvious to a person of ordinary skill in the art, at the time of the invention, to modify the system of Kirsch with the teaching of Kim, because by doing so, the system of Kirsch would provide a contextual alert dependent on multiple event participants' estimated travel times.

As per claim 7, Kirsch in combination with Kim discloses the vehicle system of claim 6. Kirsch does not disclose 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. Kim discloses, 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 (a user schedules a meeting and the estimated travel times (at least one of a set of conditions) are based on another event participant's travel time (second user being another meeting attendee); Paragraphs [0029], [0041]). It would have been obvious to a person of ordinary skill in the art, at the time of the invention, to modify the system of Kirsch with the teaching of Kim, because by doing so, the system of Kirsch would provide a contextual alert dependent on multiple event participants' estimated travel times.

As per claim 13, Kirsch discloses the method of claim 9. Kirsch does not disclose, wherein said smart alarm is provided to a second user. Kim discloses, wherein said smart alarm is provided to a second user (a conflict alert (smart alarm) is generated for notifying another event participant (a second user); Paragraph [0041]). It would have been obvious to a person of ordinary skill in the art, at the time of the invention, to modify the method of Kirsch with the teaching of Kim, because by doing so, the method of Kirsch would provide a contextual alert dependent on multiple event participants' estimated travel times.

As per claim 14, Kirsch discloses the method of claim 9. Kirsch does not disclose wherein said smart alarm is provided to a second user based on at least one of a set of conditions. Kim discloses, wherein said smart alarm is provided to a second user based on at least one of a set of conditions (a conflict alert (smart alarm) is generated for notifying another event participant (a second user) based on estimated travel times (at least one of a set of conditions); Paragraph [0041]). It would have been obvious to a person of ordinary skill in the art, at the time of the invention, to modify the method of Kirsch with the teaching of Kim, because by doing so, the method of Kirsch would provide a contextual alert dependent on multiple event participants' estimated travel times.

Claim 15 lacks an inventive step under PCT Article 33(3) as being obvious over Kirsch in view of Kim, and further in view of US 2012/0254804 A1 to SHEHA et al. (hereinafter 'Sheha').

As per claim 15, Kirsch in combination with Kim discloses the method of claim 14. Kirsch and Kim do not disclose wherein said condition is based on said second user being a colleague of said first user. Sheha discloses wherein said condition is based on said second user being a colleague of said first user (the personal wireless navigation system lists (said conditions) to user (a first user) content queries, including traffic alerts, next meeting alerts, including time and place, and partner (said second user being a colleague of said first user) defined events; Paragraphs [0849]-[0851]). It would have been obvious to a person of ordinary skill in the art, at the time of the invention, to modify the method of Kirsch and Kim with the teaching of Sheha, because by doing so, the method of Kirsch and Kim would provide the integration of detected conditions from colleagues to share calendar information utilized for generating contextual alerts.

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 6583-569-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.

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:

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)*

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)

Applicant's or agent's file reference 6583-574-PCT	Date of mailing *(day/month/year)* 15 SEP 2014 **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.

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.

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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
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	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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	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.

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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

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1560 Broadway
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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):

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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.

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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	
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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.
14/253,838	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.

- 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: _____.

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-			
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FOREIGN PATENT DOCUMENTS

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

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

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
11/14/2014	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

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	N					
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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-			
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Electronic Acknowledgement Receipt

EFS ID:	20793759
Application Number:	14253371
International Application Number:	
Confirmation Number:	2967
Title of Invention:	REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	111285
Filer:	Douglas W. Swartz/Robert Roe-Pachirat
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-588
Receipt Date:	25-NOV-2014
Filing Date:	15-APR-2014
Time Stamp:	12:30:58
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.)
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Warnings:					
Information:					
13	Non Patent Literature	6583-543-PCT_ISR-WO_08-22-2014.pdf	522451 c980287fdbf6a04ad3cd6f0844851c5a18a28bf7	no	8
Warnings:					
Information:					
14	Non Patent Literature	6583-544-PCT_ISR-WO_08-25-2014.pdf	505476 6f6319ba798f010e47ead6a78d9de5651a9c263b	no	8
Warnings:					
Information:					

15	Non Patent Literature	6583-547-PCT_ISR-WO_08-22-2014.pdf	418551 7dc680a9c5304503f61922b5ee364f0cf5c27a49	no	7
Warnings:					
Information:					
16	Non Patent Literature	6583-550-PCT_ISR-WO_09-15-2014.pdf	455781 decda73efb70977ba18441c204f69854629675cf	no	8
Warnings:					
Information:					
17	Non Patent Literature	6583-556-PCT_ISR-WO_09-15-2014.pdf	665957 94f777a93754a377d183363a35618e538fdb8fc3	no	10
Warnings:					
Information:					
18	Non Patent Literature	6583-559-PCT_ISR-WO_09-15-2014.pdf	388076 ea0d88cc261ababaa60f52bbd3cf61b210a64526	no	7
Warnings:					
Information:					
19	Non Patent Literature	6583-562-PCT_ISR-WO_08-22-2014.pdf	380861 cb30a47c080c4d632403b41cbd2e261dc75decd5	no	7
Warnings:					
Information:					
20	Non Patent Literature	6583-565-PCT_ISR-WO_09-03-2014.pdf	382402 9d079a1348215a1d106bd42b8a2497e5c703675a	no	7
Warnings:					
Information:					
21	Non Patent Literature	6583-567-PCT_ISR-WO_09-15-2014.pdf	452280 be64f4a6d655b5e8df9da7ee724d68f733518b51	no	9
Warnings:					
Information:					
22	Non Patent Literature	6583-569-PCT_ISR-WO_09-15-2014.pdf	371482 9b44ca266cac61450a5e3c53007047f1b957ca59	no	8
Warnings:					
Information:					
23	Non Patent Literature	6583-574-PCT_ISR-WO_09-15-2014.pdf	445430 ef216de63c145d622861e9ed973379edce034226	no	10
Warnings:					
Information:					

24	Non Patent Literature	6583-555_OA_11-19-2014.pdf	282317 077e8ca3eb12a2b41a915f3afd67b956f507c705	no	8
Warnings:					
Information:					
25	Non Patent Literature	6583-567_OA_11-18-2014.pdf	211404 da370eb4d35caa41d2071cbf69ea4180cc48c599	no	6
Warnings:					
Information:					
26	Non Patent Literature	6583-574_OA_11-20-2014.pdf	1097919 2e54233e988c8f19e4b96f632ad0458fda05f744	no	31
Warnings:					
Information:					
27	Non Patent Literature	6583-637_OA_11-14-2014.pdf	301467 422c84eb2f08c652de2b32a6f237d2208e0e54dd	no	9
Warnings:					
Information:					
		Total Files Size (in bytes):	20598564		

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.: 2967
Serial No.: 14/253,371	)	Examiner: DUNN, ALEX C
Filed: April 15, 2014	)	INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-588	)	*Electronically Submitted*
Entitled: "Remote Control of Associated Vehicle Devices"	)	

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)

Ford Ex. 1002 Page 573 of 746

- 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. 14/253,312 filed 04/15/2014 (Attorney's Ref. No. 6583-585)
- 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. 14/253,393 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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,371	04/15/2014	Christopher P. Ricci	6583-588	2967

111285 7590 12/16/2014

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

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
12/16/2014	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. 14/253,371	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) *1-21* is/are pending in the application.

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

6)☒ Claim(s) *1-21(allowable)* is/are allowed.

7)☒ Claim(s) *1-21(112(a))* 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 § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112(a):

> (a) IN GENERAL.—The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor or joint inventor of carrying out the invention.

The following is a quotation of the first paragraph of pre-AIA 35 U.S.C. 112:

> The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1 – 21 are rejected under 35 U.S.C. 112(a) or 35 U.S.C. 112 (pre-AIA), first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor or a joint inventor, or for pre-AIA the inventor(s), at the time the application was filed, had possession of the claimed invention. In their first paragraphs, independent claims 1, 8 and 15 recite the limitation “task, function and/or operation”, without defining either in the specification or claims, what activities are tasks, what activities are functions or what activities are operations.

4. 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.

5. Claims 1 – 21 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. Independent claims 1, 8 and 15 recite the limitation "task, function and/or operation" in their first paragraph. There is insufficient antecedent basis for this limitation in the claims.

Allowable Subject Matter

6. The following is a statement of reasons for the indication of allowable subject matter over the prior art: Claims 1 - 21 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112(a) and 112(b), set forth in this Office action. Claims 1 – 21 would be allowable over the prior art for the following reasons.

7. The prior art of record fail to teach - based upon the account corresponding to the vehicle occupant and the at least one of an area and/or zone occupied by the vehicle occupant and an operating state of the vehicle, applying, by the microprocessor executable vehicle control system, the following rules: (i) when the account permits the vehicle occupant to perform the requested vehicle task, function and/or operation, performing or causing to be performed the vehicle task, function, and/or operation; and

(ii) when the account does not permit the vehicle occupant to perform the requested vehicle task, function and/or operation, not performing or causing to be performed the vehicle task, function, and/or operation.

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. 14/253,371	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-2010/0169432 A1	07-2010	Santori et al.	709/206
*	B	US-2010/0235891 A1	09-2010	Oglesbee et al.	726/5
*	C	US-2010/0305807 A1	12-2010	Basir et al.	701/33
*	D	US-8,350,721 B2	01-2013	Carr, Jeffrey Thomas	340/903
*	E	US-8,660,735 B2	02-2014	Tengler et al.	701/24
*	F	US-8,730,033 B2	05-2014	Yarnold et al.	340/539.13
*	G	US-8,793,034 B2	07-2014	Ricci, Christopher P.	701/1
	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.

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14253371	RICCI, CHRISTOPHER P.
	Examiner	**Art Unit**
	ALEX C DUNN	3663

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

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

CLAIM		DATE								
Final	Original	12/09/2014								
	1	✓								
	2	✓								
	3	✓								
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	5	✓								
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	13	✓								
	14	✓								
	15	✓								
	16	✓								
	17	✓								
	18	✓								
	19	✓								
	20	✓								
	21	✓								

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	Group Art Unit: 3663
Christopher P. Ricci	Confirmation No.: 2967
Serial No.: 14/253,371	Examiner: DUNN, ALEX C
Filed: April 15, 2014	INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-588	*Electronically Submitted*
Entitled: "Remote Control of Associated Vehicle Devices"	

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)

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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)
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- Serial No. 14/253,312 filed 04/15/2014 (Attorney's Ref. No. 6583-585)
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- 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)

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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.

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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/ (12/07/2014)

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

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/253,371
				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	8	Attorney Docket Number	6583-588

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	4754255	06/28/1988	Sanders et al.	
	2	5296840	03/22/1994	Gieffers	
	3	5529138	06/25/1996	Shaw et al.	
	4	5825283	10/20/1998	Camhi	
	5	6356838	03/12/2002	Paul	
	6	6557752	05/06/2003	Yacoob	
	7	6563910	05/13/2003	Menard et al.	
	8	6675081	01/06/2004	Shuman et al.	
	9	7295904	11/13/2007	Kanevsky et al.	
	10	7526539	04/28/2009	Hsu	
	11	7667618	02/23/2010	Chitor et al.	
	12	8233919	07/31/2012	Haag et al.	
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	14	8442758	05/14/2013	Rovik et al.	
	15	8521410	08/27/2013	Mizuno et al.	
	16	8543330	09/24/2013	Taylor et al.	
	17	8552886	10/08/2013	Bensoussan	
	18	8634984	01/21/2014	Sumizawa	
	19	8793034	07/29/2014	Ricci	
	20	8793065	07/29/2014	Seltzer et al.	
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	22	8818725	08/26/2014	Ricci	
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	28	2002/0026278	02/28/2002	Feldman et al.	
	29	2002/0103622	08/01/2002	Burge	
	30	2003/0065432	04/03/2003	Shuman et al.	
	31	2003/0204290	10/30/2003	Sadler et al.	
	32	2004/0093155	05/13/2004	Simonds et al.	

Examiner Signature	/Alex Dunn/ (12/07/2014)	Date Considered	12/07/2014

*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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(Use as many sheets as necessary)				Art Unit	3663
				Examiner Name	DUNN, ALEX C
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	33	2004/0153356	08/05/2004	Lockwood et al.	
	34	2004/0204837	10/14/2004	Singleton	
	35	2004/0217850	11/04/2004	Perttunen et al.	
	36	2004/0225557	11/11/2004	Phelan et al.	
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	59	2010/0145700	06/10/2010	Kennewick et al.	
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	64	2010/0306309	12/02/2010	Santori et al.	
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	67	2011/0090078	04/21/2011	Kim et al.	
	68	2011/0093438	04/21/2011	Poulsen	

Examiner Signature	/Alex Dunn/ (12/07/2014)	Date Considered	12/07/2014

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				Examiner Name	DUNN, ALEX C
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	69	2011/0184642	07/28/2011	Rotz et al.	
	70	2011/0257973	10/20/2011	Chutorash et al.	
	71	2011/0291926	12/01/2011	Gokturk et al.	
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	104	2013/0145360	06/06/2013	Ricci	

Examiner Signature	/Alex Dunn/ (12/07/2014)	Date Considered	12/07/2014

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	105	2013/0145401	06/06/2013	Ricci	
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	107	2013/0147638	06/13/2013	Ricci	
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	109	2013/0151088	06/13/2013	Ricci	
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	113	2013/0166097	06/27/2013	Ricci	
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	115	2013/0218445	08/22/2013	Basir	
	116	2013/0219039	08/22/2013	Ricci	
	117	2013/0231784	09/05/2013	Rovik et al.	
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	121	2013/0293364	11/07/2013	Ricci et al.	
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	123	2013/0295913	11/07/2013	Matthews et al.	
	124	2013/0338914	12/19/2013	Weiss	
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Examiner Signature	/Alex Dunn/ (12/07/2014)	Date Considered	12/07/2014

*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./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/253,371
				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	5	of	8	Attorney Docket Number	6583-588

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Examiner Signature	/Alex Dunn/ (12/07/2014)	Date Considered	12/07/2014

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

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				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	6	of	8	Attorney Docket Number	6583-588

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UNPUBLISHED U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-kind Code[2] (if known)	Filing Date MM-DD-YYYY	Name of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	198	14/543535	11/17/2014	Ricci	

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]
	199	EP 1909069	12/08/2010	HARMAN BECKER AUTOMOTIVE SYSTEMS GMBH		

Examiner Signature	/Alex Dunn/ (12/07/2014)	Date Considered	12/07/2014

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/253,371
				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	7	of	8	Attorney Docket Number	6583-588

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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.
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Examiner Signature	/Alex Dunn/ (12/07/2014)	Date Considered	12/07/2014

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(Use as many sheets as necessary)				Art Unit	3663
				Examiner Name	DUNN, ALEX C
Sheet	8	of	8	Attorney Docket Number	6583-588

	216	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US2014/034101, mailed Aug. 22, 2014 (Attorney's Ref. No. 6583-562-PCT) 7 pages
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	223	Official Action for U.S. Patent Application No. 14/253,838, mailed Nov. 20, 2014 (Attorney's Ref. No. 6583-574) 31 pages
	224	Official Action for U.S. Patent Application No. 14/253,506, mailed Nov. 14, 2014 (Attorney's Ref. No. 6583-637) 9 pages
	225	Background of the Invention for the above-captioned application (previously provided)

Examiner Signature	/Alex Dunn/ (12/07/2014)	Date Considered	12/07/2014

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

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"20110300840"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/07 07:33
L2	2	"20100169432"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/07 07:38
L3	9	2010/0235891	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/07 07:41
L4	2	"20100235891"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/07 07:42
L5	8	((vehicle ADJ2 occupant) AND ((zone NEAR area) ADJ3 occup$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/07 08:06
L6	11	((vehicle ADJ2 (occupant OR user)) AND ((zone NEAR area) ADJ3 occup$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/07 08:09
L7	8	6 AND ((cell ADJ phone) OR (mobile ADJ phone) OR laptop OR (tablet ADJ computer) OR (digital ADJ assistant))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/07 08:12
L8	1346702	((cell ADJ phone) OR (mobile ADJ phone) OR laptop OR (tablet ADJ computer) OR (digital ADJ assistant))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/07 08:15
L9	14921	8 AND "701".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/07 08:15
L10	13402	9 AND @ay<"2013"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/07 08:17

L11	6	10 AND ((vehicle ADJ2 (occupant OR user)) AND ((zone NEAR area) ADJ3 occup$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/12/07 08:18

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L12	1	((vehicle ADJ control) SAME8 (vehicle ADJ occupant) SAME8 (vehicle ADJ task) SAME8 (authenticated ADJ successful$3) SAME8 (account ADJ3 occupant) SAME8 (rights ADJ3 privileges) SAME8 (controlling ADJ3 vehicle) SAME8 (area ADJ3 zone) SAME8 (operating ADJ state) SAME8 (account ADJ permits)).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2014/12/07 08:36

12/7/2014 8:38:58 AM
C:\Users\adunn\Documents\EAST\Workspaces\14253371.wsp

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BIB DATA SHEET

CONFIRMATION NO. 2967

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
14/253,371	04/15/2014	701	3663	6583-588

APPLICANTS

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

INVENTORS

Christopher P. Ricci, Saratoga, CA;

**** 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 ***************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ****

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

ADDRESS

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

TITLE

REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES

FILING FEE RECEIVED		
2620	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14253371	RICCI, CHRISTOPHER P.
	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	48	12/6/2014	Alex C. Dunn

SEARCH NOTES		
Search Notes	Date	Examiner
IP.com	12/6/2014	Alex C. Dunn
EAST	12/7/2014	Alex C. Dunn

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	Text	12/7/2014	Alex C. Dunn

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

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Application	Document	Mailroom Date	Attorney Docket No.
14253371	CTNF	12/16/2014	6583-588
	892	12/16/2014	6583-588
	1449	12/16/2014	6583-588
	1449	12/16/2014	6583-588

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PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.:	14/253,371	)	Confirmation No.: **2967**
Applicant:	Ricci	)	TC/A.U.: 3663
Filed:	April 15, 2014	)	Examiner: Dunn
Docket No.:	6583-588	)	
For:	REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES	)	

AMENDMENT AND RESPONSE

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

Sir:

Applicants submit this Amendment and Response to address the Office Action having a mailing date of December 16, 2014. Please credit any overpayment or charge any underpayment to Deposit Account No. 19-1970.

Please amend the above-identified patent application as follows:

Amendments to the Claims are shown in the listing of claims which begins on page **2** of this paper.

Remarks begin on page **9** of this paper.

Ford Ex. 1002 Page 604 of 746

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method, comprising:

(a) receiving, by a microprocessor executable vehicle control system, a request from a vehicle occupant to perform a vehicle task, ~~function and/or operation~~function or operation;

(b) determining, by the microprocessor executable vehicle control system, that the vehicle occupant has been authenticated successfully;

(c) accessing, by the microprocessor executable vehicle control system, an account for the vehicle occupant, the account defining rights and privileges of the user with respect to controlling a vehicle task, ~~function and/or operation~~function or operation, wherein the vehicle task, function or operation is one or more of the following: monitoring, controlling, and/or operating an engine control unit ("ECU"), transmission control unit ("TCU"), door setting, window setting, blind spot monitor, safety equipment, a vehicle sensor, operation of a vehicle engine, head light control unit, power steering, display panel, switch state control unit, power control unit, brake control unit, alert to a user and/or remote monitoring entity of a potential problem with a vehicle operation, emission control, entertainment system, and media and/or multimedia content;

(d) determining, by the microprocessor executable vehicle control system, at least one of an area and/or zone occupied by the vehicle occupant and an operating state of the vehicle; and

(e) based upon the account corresponding to the vehicle occupant and the at least one of an area and/or zone occupied by the vehicle occupant and an operating state of the vehicle, applying, by the microprocessor executable vehicle control system, the following rules:

(i) when the account permits the vehicle occupant to perform the requested vehicle task, ~~function and/or operation~~function or operation, performing or causing to be performed the vehicle task, function~~, and~~/or operation; and

(ii) when the account does not permit the vehicle occupant to perform the requested vehicle task, ~~function and/or operation~~function or operation, not performing or causing to be performed the vehicle task, function~~, and~~/or operation.

Ford Ex. 1002 Page 605 of 746

2. (Currently Amended) The method of claim 1, wherein, in step (e), the microprocessor executable vehicle control system applies the rules based on the account corresponding to the vehicle occupant and the area and/or zone occupied by the vehicle occupant and wherein the vehicle occupant can perform a first set of vehicle tasks, functions ~~and~~ or operations when in a first area and/or zone and a different set of vehicle tasks, functions, ~~and~~ or operations when in a different second area and/or zone.

3. (Currently Amended) The method of claim 1, wherein, in step (e), the microprocessor executable vehicle control system applies the rules based on the account corresponding to the vehicle occupant and the operating state of the vehicle and wherein the vehicle occupant can perform a first set of vehicle tasks, functions ~~and~~ or operations when the vehicle is in a first operating state and a different set of vehicle tasks, functions, ~~and~~or operations when the vehicle is in a second operating state.

4. (Currently Amended) The method of claim 1, wherein rule (i) applies and the vehicle occupant is able to control the requested vehicle task, ~~function and/or operation~~function or operation using one or more of a cell phone, laptop, tablet computer, and personal digital assistant.

5. (Currently Amended) The method of claim 1, wherein a different authentication procedure is used for the vehicle occupant when requesting a first set of vehicle tasks, functions, or operations, ~~and functions~~ than when requesting a second set of vehicle tasks, functions, or operations, ~~and functions~~and wherein the task, function, or operation is monitoring, controlling, and/or operation a vehicle sensor, the vehicle sensor being one or more of: a collision sensor, nearby object sensing system, sensor for setting a seat belt, power source controller and energy output sensor, engine temperature sensor, oil pressure sensor, hydraulic pressure sensor, sensor for headlight, sensor for other light, vehicle control system sensor, steering/torque sensor, wireless network sensor, cellular data sensor, seating system sensor, ambient (outdoor) weather reading sensor, odometer reading sensor, trip mileage reading sensor, road condition sensor, brake wear sensor, oxygen sensor, ambient lighting sensor, vision system sensor, ranging sensor, parking sensor, heating, venting, and air conditioning (HVAC) sensor, water sensor, air-fuel ratio meter, hall effect sensor, microphone, radio frequency (RF) sensor, and infrared (IR) sensor .

6. (Currently Amended) The method of claim 1, wherein the account comprises rights and privileges for the vehicle occupant with respect to a vehicle task, function or

operation, security and/or authentication requirements and/or credentials for the vehicle occupant, and personal settings of the vehicle occupant and wherein the vehicle task, function, or operation is one or more of the following: entertainment system and media and/or multimedia content.

7. (Original) The method of claim 6, wherein the personal settings of the vehicle occupant comprise a plurality of a seat setting, climate control setting, lighting setting, configuration of an instrument cluster on a screen, rear view mirror setting, driving mode, media channel setting or preset, media delivery preference, music genre preference, scheduled program, playlist, synchronization with cloud-based data associated with the vehicle occupant, application-specific personalization and selections, and a display setting and configuration.

8. (Currently Amended) A vehicle, comprising:

a microprocessor executable vehicle control system operable to:

receive a request from a vehicle occupant to perform a vehicle task, ~~function and/or operation~~function or operation;

determine that the vehicle occupant has been authenticated successfully;

access an account for the vehicle occupant, the account defining rights and privileges of the user with respect to controlling a vehicle task, ~~function and/or operation~~function or operation, wherein the vehicle task, function, or operation is one or more of the following: monitoring, controlling, and/or operating an engine control unit ("ECU"), transmission control unit ("TCU"), door setting, window setting, blind spot monitor, safety equipment, vehicle sensor, operation of a vehicle engine, head light control unit, power steering, display panel, switch state control unit, power control unit, brake control unit, alert to a user and/or remote monitoring entity of a potential problem with a vehicle operation, emission control, entertainment system, and media and/or multimedia content;

determine at least one of an area and/or zone occupied by the vehicle occupant and an operating state of the vehicle; and

based upon the account corresponding to the vehicle occupant and the at least one of an area and/or zone occupied by the vehicle occupant and an operating state of the vehicle, apply the following rules:

(i) when the account permits the vehicle occupant to perform the requested vehicle task, ~~function and/or operation~~function or operation, performing or causing to be performed the vehicle task, function~~, and/~~or operation; and

(ii) when the account does not permit the vehicle occupant to perform the requested vehicle task, ~~function and/or operation~~function or operation, not performing or causing to be performed the vehicle task, function~~, and/~~or operation.

9. (Currently Amended) The vehicle of claim 8, wherein the microprocessor executable vehicle control system applies the rules based on the account corresponding to the vehicle occupant and the area and/or zone occupied by the vehicle occupant and wherein the vehicle occupant can perform a first set of vehicle tasks, functions ~~and~~or operations when in a first area and/or zone and a different set of vehicle tasks, functions~~, and~~or operations when in a different second area and/or zone.

10. (Currently Amended) The vehicle of claim 8, wherein the microprocessor executable vehicle control system applies the rules based on the account corresponding to the vehicle occupant and the operating state of the vehicle and wherein the vehicle occupant can perform a first set of vehicle tasks, functions or~~and~~ operations when the vehicle is in a first operating state and a different set of vehicle tasks, functions, ~~and~~or operations when the vehicle is in a second operating state.

11. (Currently Amended) The vehicle of claim 8, wherein rule (i) applies and the vehicle occupant is able to control the requested vehicle task, ~~function and/or operation~~function or operation using one or more of a cell phone, laptop, tablet computer, and personal digital assistant.

12. (Currently Amended) The vehicle of claim 8, wherein a different authentication procedure is used for the vehicle occupant when requesting a first set of vehicle tasks, functions or operations~~, and functions~~ than when requesting a second set of vehicle tasks, functions or operations~~, and functions~~ and wherein the vehicle task, function or operation is one or more of the following: entertainment system and media and/or multimedia content.

13. (Currently Amended) The vehicle of claim 8, wherein the account comprises rights and privileges for the vehicle occupant with respect to a vehicle task, function or operation, security and/or authentication requirements and/or credentials for the vehicle occupant, and personal settings of the vehicle occupant and wherein the task, function or

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operation is monitoring, controlling, and/or operation a vehicle sensor, the vehicle sensor being one or more of: a collision sensor, nearby object sensing system, sensor for setting a seat belt, power source controller and energy output sensor, engine temperature sensor, oil pressure sensor, hydraulic pressure sensor, sensor for headlight, sensor for other light, vehicle control system sensor, steering/torque sensor, wireless network sensor, cellular data sensor, seating system sensor, ambient (outdoor) weather reading sensor, odometer reading sensor, trip mileage reading sensor, road condition sensor, brake wear sensor, oxygen sensor, ambient lighting sensor, vision system sensor, ranging sensor, parking sensor, heating, venting, and air conditioning (HVAC) sensor, water sensor, air-fuel ratio meter, hall effect sensor, microphone, radio frequency (RF) sensor, and infrared (IR) sensor.

14. (Original) The vehicle of claim 13, wherein the personal settings of the vehicle occupant comprise a plurality of a seat setting, climate control setting, lighting setting, configuration of an instrument cluster on a screen, rear view mirror setting, driving mode, media channel setting or preset, media delivery preference, music genre preference, scheduled program, playlist, synchronization with cloud-based data associated with the vehicle occupant, application-specific personalization and selections, and a display setting and configuration.

15. (Currently Amended) A tangible and non-transient computer readable medium comprising microprocessor executable instructions to perform functions, comprising:

(a) receiving a request from a vehicle occupant to perform a vehicle task, ~~function and/or operation~~function or operation, wherein the vehicle task, function or operation is one or more of the following: monitoring, controlling, and/or operating an engine control unit ("ECU"), transmission control unit ("TCU"), door setting, window setting, blind spot monitor, safety equipment, a vehicle sensor, operation of a vehicle engine, head light control unit, power steering, display panel, switch state control unit, power control unit, brake control unit, alert to a user and/or remote monitoring entity of a potential problem with a vehicle operation, emission control, entertainment system, and media and/or multimedia content;

(b) determining that the vehicle occupant has been authenticated successfully;

(c) accessing an account for the vehicle occupant, the account defining rights and privileges of the user with respect to controlling a vehicle task, ~~function and/or operation~~function or operation;

(d) determining at least one of an area and/or zone occupied by the vehicle occupant and an operating state of the vehicle; and

(e) based upon the account corresponding to the vehicle occupant and the at least one of an area and/or zone occupied by the vehicle occupant and an operating state of the vehicle, applying the following rules:

(i) when the account permits the vehicle occupant to perform the requested vehicle task, ~~function and/or operation~~function or operation, performing or causing to be performed the vehicle task, function~~, and/~~or operation; and

(ii) when the account does not permit the vehicle occupant to perform the requested vehicle task, ~~function and/or operation~~function or operation, not performing or causing to be performed the vehicle task, function~~, and/~~or operation.

16. (Currently Amended) The computer readable medium of claim 15, wherein, in function (e), the microprocessor executable vehicle control system applies the rules based on the account corresponding to the vehicle occupant and the area and/or zone occupied by the vehicle occupant and wherein the vehicle occupant can perform a first set of vehicle tasks, functions ~~and~~ or operations when in a first area and/or zone and a different set of vehicle tasks, functions~~,~~ ~~and~~or operations when in a different second area and/or zone.

17. (Currently Amended) The computer readable medium of claim 15, wherein, in function (e), the microprocessor executable vehicle control system applies the rules based on the account corresponding to the vehicle occupant and the operating state of the vehicle and wherein the vehicle occupant can perform a first set of vehicle tasks, functions ~~and~~ or operations when the vehicle is in a first operating state and a different set of vehicle tasks, functions, ~~and~~ or operations when the vehicle is in a second operating state.

18. (Currently Amended) The computer readable medium of claim 15, wherein rule (i) applies and the vehicle occupant is able to control the requested vehicle task, ~~function and/or operation~~function or operation using one or more of a cell phone, laptop, tablet computer, and personal digital assistant.

19. (Currently Amended) The computer readable medium of claim 15, wherein a different authentication procedure is used for the vehicle occupant when requesting a first set of vehicle tasks, functions, or operations~~, and functions~~ than when requesting a second set of vehicle tasks, functions or operations~~, and functions~~.

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20. (Currently Amended) The computer readable medium of claim 15, wherein the account comprises rights and privileges for the vehicle occupant with respect to a vehicle task, function or operation, security and/or authentication requirements and/or credentials for the vehicle occupant, and personal settings of the vehicle occupant and wherein the vehicle task, function or operation is one or more of the following: entertainment system and media and/or multimedia content.

21. (Currently Amended) The computer readable medium of claim 20, wherein the personal settings of the vehicle occupant comprise a plurality of a seat setting, climate control setting, lighting setting, configuration of an instrument cluster on a screen, rear view mirror setting, driving mode, media channel setting or preset, media delivery preference, music genre preference, scheduled program, playlist, synchronization with cloud-based data associated with the vehicle occupant, application-specific personalization and selections, and a display setting and configuration and wherein the task, function or operation is monitoring, controlling, and/or operation a vehicle sensor, the vehicle sensor being one or more of: a collision sensor, nearby object sensing system, sensor for setting a seat belt, power source controller and energy output sensor, engine temperature sensor, oil pressure sensor, hydraulic pressure sensor, sensor for headlight, sensor for other light, vehicle control system sensor, steering/torque sensor, wireless network sensor, cellular data sensor, seating system sensor, ambient (outdoor) weather reading sensor, odometer reading sensor, trip mileage reading sensor, road condition sensor, brake wear sensor, oxygen sensor, ambient lighting sensor, vision system sensor, ranging sensor, parking sensor, heating, venting, and air conditioning (HVAC) sensor, water sensor, air-fuel ratio meter, hall effect sensor, microphone, radio frequency (RF) sensor, and infrared (IR) sensor.

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REMARKS

Claims 1-6, 8-13, and 15-21 have been amended. In particular, independent claims 1, 8, and 15 have been amended to further define "task, function, and/or operation". Support for the amendments includes ¶¶ [0338]-[0340].

Applicant thanks the Examiner for the indication of allowable subject matter in claims 1-21.

The Examiner has rejected claims 1-21 under pre-AIA 35 U.S.C.§112, first and second paragraphs, as reciting the limitation "task, function, and/or operation" without defining either in the specification or claims.

Applicant has amended the claims to include the listing set forth in ¶¶ [0338]-[0340] in connection with defining "tasks, functions, or operations".

Based on the foregoing, Applicants believe that all pending claims are in condition for allowance and such disposition is respectfully requested. In the event that a telephone conversation would further prosecution and/or expedite allowance, the Examiner is invited to contact the undersigned.

Respectfully submitted,

SHERIDAN ROSS P.C.

Date: March 16, 2015

By: /Douglas W. Swartz/

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Electronic Acknowledgement Receipt

EFS ID:	21779232
Application Number:	14253371
International Application Number:	
Confirmation Number:	2967
Title of Invention:	REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	111285
Filer:	Douglas W. Swartz/Christine Jacquet
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	6583-588
Receipt Date:	16-MAR-2015
Filing Date:	15-APR-2014
Time Stamp:	15:14:06
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		AMEND-DUE-3-16-2015.pdf	103999 f81d8776c92f6a70b01a68b5a6693bb27d53a5cf	yes	9

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	8
	Applicant Arguments/Remarks Made in an Amendment	9	9
Warnings:			
Information:			
	Total Files Size (in bytes):	103999	

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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.

PTO/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 14/253,371	Filing Date 04/15/2014	☐ To be Mailed

ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

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

APPLICATION AS AMENDED – PART II

AMENDMENT **03/16/2015**

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 21	Minus	** 21	= 0	X $80 =	0
Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $420 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

AMENDMENT

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

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

LIE
/ROLITA WIMBUSH/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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NOTICE OF ALLOWANCE AND FEE(S) DUE

111285 7590 04/15/2015

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

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

DATE MAILED: 04/15/2015

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,371	04/15/2014	Christopher P. Ricci	6583-588	2967

TITLE OF INVENTION: REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES

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	07/15/2015

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 04/15/2015
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.
14/253,371	04/15/2014	Christopher P. Ricci	6583-588	2967

TITLE OF INVENTION: REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES

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	07/15/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
DUNN, ALEX C	3663	701-048000

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. _____

Ford Ex. 1002 Page 617 of 746

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,371	04/15/2014	Christopher P. Ricci	6583-588	2967

111285 7590 04/15/2015

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

EXAMINER	
DUNN, ALEX C	

ART UNIT	PAPER NUMBER
3663	

DATE MAILED: 04/15/2015

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.

Notice Requiring Inventor's Oath or Declaration	Application No. 14/253,371	Applicant(s) Christopher P. Ricci	
	Examiner DUNN, ALEX C	Art Unit 3663	

This notice is an attachment to the Notice of Allowability (PTOL-37), or the Notice of Allowability For A Design Application (PTOL-37D).

An inventor's oath or declaration in compliance with 37 CFR 1.63 or 1.64 executed by or with respect to each inventor has not yet been submitted.

An oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each inventor (for any inventor for which a compliant oath, declaration, or substitute statement has not yet been submitted) MUST be filed no later than the date on which the issue fee is paid. See 35 U.S.C. 115(f). Failure to timely comply will result in ABANDONMENT of this application.

A properly executed inventor's oath to declaration has not been received for the following inventor(s):

If applicant previously filed one or more oaths, declarations, or substitute statements, applicant may have received an informational notice regarding deficiencies therein.

The following deficiencies are noted:

INFORMAL ACTION PROBLEMS

- A properly executed inventor's oath or declaration has not been received for the following inventor(s): **Christopher P. Ricci**.
  Applicant may submit the inventor's oath or declaration at any time before the Notice of Allowance and Fee(s) Due, PTOL-85, is mailed.

Questions relating to this Notice should be directed to the Application Assistance Unit at 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. 14/253,371	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 *3/16/2015*.
   ☐ 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 _____.

/A. C. D./ Examiner, Art Unit 3663	/THOMAS TARCZA/ Supervisory Patent Examiner, Art Unit 3663

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14253371	RICCI, CHRISTOPHER P.
	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
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
B60R		16	/ 0373	I	2013-01-01
H04W		4	/ 046	I	2013-01-01
G06K		9	/ 00255	I	2013-01-01
H04W		36	/ 32	I	2013-01-01
G08G		1	/ 166	I	2013-01-01
G01C		21	/ 36	I	2013-01-01

/ALEX C DUNN/ Examiner.Art Unit 3663 (Assistant Examiner)	3/19/2015 (Date)	**Total Claims Allowed:** 21	
/THOMAS TARCZA/ Supervisory Patent Examiner.Art Unit 3663 (Primary Examiner)	03/20/2015 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 5C

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14253371	RICCI, CHRISTOPHER P.
	Examiner	**Art Unit**
	ALEX C DUNN	3663

G06Q		30	/	0633	I	2013-01-01
G06Q		30	/	0639	I	2013-01-01
G01C		21	/	3647	I	2013-01-01
G06F		17	/	28	I	2013-01-01
G06Q		10	/	02	I	2013-01-01
G06Q		30	/	0645	I	2013-01-01
G06Q		20	/	145	I	2013-01-01
G06Q		50	/	30	I	2013-01-01
G06Q		30	/	0265	I	2013-01-01
G06Q		10	/	20	I	2013-01-01
G06Q		30	/	012	I	2013-01-01
G06F		17	/	30557	I	2013-01-01
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H04N		21	/	2181	I	2013-01-01
H04N		21	/	25841	I	2013-01-01
H04N		21	/	41422	I	2013-01-01
H04N		21	/	4542	I	2013-01-01
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H04W		84	/	005	A	2013-01-01
G06F		3	/	017	A	2013-01-01
G01C		21	/	26	A	2013-01-01
G08G		1	/	096725	A	2013-01-01
G08G		1	/	096741	A	2013-01-01

/ALEX C DUNN/ Examiner.Art Unit 3663	3/19/2015	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	21	
/THOMAS TARCZA/ Supervisory Patent Examiner.Art Unit 3663	03/20/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5C

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14253371	RICCI, CHRISTOPHER P.
	Examiner	**Art Unit**
	ALEX C DUNN	3663

G08G		1	/ 096775	A	2013-01-01
H04N		7	/ 181	A	2013-01-01
H04W		12	/ 06	A	2013-01-01
H04W		12	/ 08	A	2013-01-01
G08B		21	/ 06	A	2013-01-01
G08B		29	/ 188	A	2013-01-01
G06F		3	/ 0488	A	2013-01-01

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

/ALEX C DUNN/ Examiner.Art Unit 3663	3/19/2015	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	21	
/THOMAS TARCZA/ Supervisory Patent Examiner.Art Unit 3663	03/20/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5C

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14253371	RICCI, CHRISTOPHER P.
	Examiner	**Art Unit**
	ALEX C DUNN	3663

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
701	48	B	6	0	R	16 / 037 (2006.0)						
CROSS REFERENCE(S)												
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)											

/ALEX C DUNN/ Examiner.Art Unit 3663	3/19/2015	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	21	
/THOMAS TARCZA/ Supervisory Patent Examiner.Art Unit 3663	03/20/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5C

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14253371	RICCI, CHRISTOPHER P.
	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	3/19/2015	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	21	
/THOMAS TARCZA/ Supervisory Patent Examiner.Art Unit 3663	03/20/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5C

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14253371	RICCI, CHRISTOPHER P.
	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	48	12/6/2014	Alex C. Dunn

SEARCH NOTES		
Search Notes	Date	Examiner
IP.com	12/6/2014	Alex C. Dunn
EAST	12/7/2014	Alex C. Dunn

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	Text	12/7/2014	Alex C. Dunn

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

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

Apr 15, 2015 05:31:58 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.
14253371	NOA	04/15/2015	6583-588

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

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 04/15/2015
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.
14/253,371	04/15/2014	Christopher P. Ricci	6583-588	2967

TITLE OF INVENTION: REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES

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	07/15/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
DUNN, ALEX C	3663	701-048000

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 July 15, 2015

Typed or printed name Douglas W. Swartz Registration No. 37,739

Ford Ex. 1002 Page 629 of 746

Electronic Patent Application Fee Transmittal

Application Number:	14253371
Filing Date:	15-Apr-2014
Title of Invention:	REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES
First Named Inventor/Applicant Name:	Christopher P. Ricci
Filer:	Douglas W. Swartz/Amy Duarte
Attorney Docket Number:	6583-588

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:	22930716
Application Number:	14253371
International Application Number:	
Confirmation Number:	2967
Title of Invention:	REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES
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:	6583-588
Receipt Date:	15-JUL-2015
Filing Date:	15-APR-2014
Time Stamp:	18:53:37
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	5186
Deposit Account	191970
Authorized User	SWARTZ, DOUGLAS W.
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		Rule_312_Amendment_6583-588.pdf	184113 b6cad60ec210e0143e56a2f8b4eeb9b7889746ad	yes	10

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Amendment after Notice of Allowance (Rule 312)	1	1
Specification	2	2
Claims	3	9
Applicant Arguments/Remarks Made in an Amendment	10	10

Warnings:

Information:

2	Oath or Declaration filed	Executed_Declaration_588.pdf	149488 7e491adcb3d881094332d4319f134f99e737c21e	no	1

Warnings:

Information:

3	Issue Fee Payment (PTO-85B)	Issue-fee-transmittal_6583-588.pdf	94173 9edb88fb11e54d9294d8b1bebc009eb9cb42424d	no	1

Warnings:

Information:

4	Fee Worksheet (SB06)	fee-info.pdf	30766 fadbb6ab95aa2d2f6cc3f02fbfc9b97ab8ec84aa	no	2

Warnings:

Information:

Total Files Size (in bytes):	458540

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
RICCI, Christopher P.	Confirmation No.: 2967
Serial No.: 14/253,371	Examiner: DUNN, ALEX C
Filed: April 15, 2014	
Atty. File No.: 6583-588	
Entitled: "REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES"	***Submitted Via EFS-Web***

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT AFTER ALLOWANCE PURSUANT TO 37 CFR § 1.312

Dear Sir/Madam:

Applicants submit this Amendment After Allowance pursuant to 37 CFR § 1.312 in response to the Notice of Allowance and Fee(s) Due having a mailing date of April 15, 2015. An amendment may be entered after the mailing of a Notice of Allowance but prior to payment of the issue fee upon the recommendation of the primary examiner. Therefore, it is respectfully requested that the above-referenced application be amended as follows:

Amendments to the Specification begin on page **2** of this paper.

Amendments to the Claims are reflected in the listing of claims which begins on page **3** of this paper.

Remarks/Arguments begin on page **10** of this paper.

AMENDMENTS TO THE SPECIFICATION

Please replace paragraph **[0126]** with the following amended paragraph:

[0126] ~~(b) in response~~(b) in response, reconfiguring, by the media controller subsystem, the graphical user interface by at least one of the following actions to reduce driver distraction and/or make content displayed by the graphical user interface more visible to the driver;[[:]]

Ford Ex. 1002 Page 636 of 746

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A method, comprising:

(a) receiving, by a microprocessor executable vehicle control system, a request from a vehicle occupant to perform a vehicle task, function or operation;

(b) determining, by the microprocessor executable vehicle control system, that the vehicle occupant has been authenticated successfully;

(c) accessing, by the microprocessor executable vehicle control system, an account for the vehicle occupant, the account defining rights and privileges of the user with respect to controlling a vehicle task, function or operation, wherein the vehicle task, function or operation is one or more of the following: monitoring, controlling, and/or operating an engine control unit ("ECU"), transmission control unit ("TCU"), door setting, window setting, blind spot monitor, safety equipment, [[a]] vehicle sensor, ~~operation of a~~ vehicle engine, head light control unit, power steering, display panel, switch state control unit, power control unit, brake control unit, alert to a user and/or remote monitoring entity of a potential problem with a vehicle operation, emission control, entertainment system, and media and/or multimedia content;

(d) determining, by the microprocessor executable vehicle control system, at least one of an area and/or zone occupied by the vehicle occupant and an operating state of the vehicle; and

(e) based upon the account corresponding to the vehicle occupant and the at least one of an area and/or zone occupied by the vehicle occupant and an operating state of the vehicle, applying, by the microprocessor executable vehicle control system, the following rules:

(i) when the account permits the vehicle occupant to perform the requested vehicle task, function or operation, performing or causing to be performed the vehicle task, function or operation; and

(ii) when the account does not permit the vehicle occupant to perform the requested vehicle task, function or operation, not performing or causing to be performed the vehicle task, function or operation.

2. (Previously Presented) The method of claim 1, wherein, in step (e), the microprocessor executable vehicle control system applies the rules based on the account corresponding to the vehicle occupant and the area and/or zone occupied by the vehicle occupant and wherein the vehicle occupant can perform a first set of vehicle tasks, functions or operations when in a first area and/or zone and a different set of vehicle tasks, functions, or operations when in a different second area and/or zone.

3. (Previously Presented) The method of claim 1, wherein, in step (e), the microprocessor executable vehicle control system applies the rules based on the account corresponding to the vehicle occupant and the operating state of the vehicle and wherein the vehicle occupant can perform a first set of vehicle tasks, functions or operations when the vehicle is in a first operating state and a different set of vehicle tasks, functions, or operations when the vehicle is in a second operating state.

4. (Previously Presented) The method of claim 1, wherein rule (i) applies and the vehicle occupant is able to control the requested vehicle task, function or operation using one or more of a cell phone, laptop, tablet computer, and personal digital assistant.

5. (Previously Presented) The method of claim 1, wherein a different authentication procedure is used for the vehicle occupant when requesting a first set of vehicle tasks, functions, or operations, than when requesting a second set of vehicle tasks, functions, or operations, and wherein the task, function, or operation is monitoring, controlling, and/or operation a vehicle sensor, the vehicle sensor being one or more of: a collision sensor, nearby object sensing system, sensor for setting a seat belt, power source controller and energy output sensor, engine temperature sensor, oil pressure sensor, hydraulic pressure sensor, sensor for headlight, sensor for other light, vehicle control system sensor, steering/torque sensor, wireless network sensor, cellular data sensor, seating system sensor, ambient (outdoor) weather reading sensor, odometer reading sensor, trip mileage reading sensor, road condition sensor, brake wear sensor, oxygen sensor, ambient lighting sensor, vision system sensor, ranging sensor, parking sensor, heating, venting, and air conditioning (HVAC) sensor, water sensor, air-fuel ratio meter, hall effect sensor, microphone, radio frequency (RF) sensor, and infrared (IR) sensor .

6. (Previously Presented) The method of claim 1, wherein the account comprises rights and privileges for the vehicle occupant with respect to a vehicle task, function or operation, security and/or authentication requirements and/or credentials for the vehicle occupant, and personal settings of the vehicle occupant and wherein the vehicle task, function, or

operation is one or more of the following: entertainment system and media and/or multimedia content.

7. (Original) The method of claim 6, wherein the personal settings of the vehicle occupant comprise a plurality of a seat setting, climate control setting, lighting setting, configuration of an instrument cluster on a screen, rear view mirror setting, driving mode, media channel setting or preset, media delivery preference, music genre preference, scheduled program, playlist, synchronization with cloud-based data associated with the vehicle occupant, application-specific personalization and selections, and a display setting and configuration.

8. (Currently Amended) A vehicle, comprising:

a microprocessor executable vehicle control system operable to:

receive a request from a vehicle occupant to perform a vehicle task, function or operation;

determine that the vehicle occupant has been authenticated successfully;

access an account for the vehicle occupant, the account defining rights and privileges of the user with respect to controlling a vehicle task, function or operation, wherein the vehicle task, function, or operation is one or more of the following: monitoring, controlling, and/or operating an engine control unit ("ECU"), transmission control unit ("TCU"), door setting, window setting, blind spot monitor, safety equipment, vehicle sensor, ~~operation of a~~ vehicle engine, head light control unit, power steering, display panel, switch state control unit, power control unit, brake control unit, alert to a user and/or remote monitoring entity of a potential problem with a vehicle operation, emission control, entertainment system, and media and/or multimedia content;

determine at least one of an area and/or zone occupied by the vehicle occupant and an operating state of the vehicle; and

based upon the account corresponding to the vehicle occupant and the at least one of an area and/or zone occupied by the vehicle occupant and an operating state of the vehicle, apply the following rules:

(i) when the account permits the vehicle occupant to perform the requested vehicle task, function or operation, performing or causing to be performed the vehicle task, function or operation; and

(ii) when the account does not permit the vehicle occupant to perform the requested vehicle task, function or operation, not performing or causing to be performed the vehicle task, function or operation.

9. (Previously Presented) The vehicle of claim 8, wherein the microprocessor executable vehicle control system applies the rules based on the account corresponding to the vehicle occupant and the area and/or zone occupied by the vehicle occupant and wherein the vehicle occupant can perform a first set of vehicle tasks, functions or operations when in a first area and/or zone and a different set of vehicle tasks, functions or operations when in a different second area and/or zone.

10. (Previously Presented) The vehicle of claim 8, wherein the microprocessor executable vehicle control system applies the rules based on the account corresponding to the vehicle occupant and the operating state of the vehicle and wherein the vehicle occupant can perform a first set of vehicle tasks, functions or operations when the vehicle is in a first operating state and a different set of vehicle tasks, functions, or operations when the vehicle is in a second operating state.

11. (Previously Presented) The vehicle of claim 8, wherein rule (i) applies and the vehicle occupant is able to control the requested vehicle task, function or operation using one or more of a cell phone, laptop, tablet computer, and personal digital assistant.

12. (Previously Presented) The vehicle of claim 8, wherein a different authentication procedure is used for the vehicle occupant when requesting a first set of vehicle tasks, functions or operations than when requesting a second set of vehicle tasks, functions or operations and wherein the vehicle task, function or operation is one or more of the following: entertainment system and media and/or multimedia content.

13. (Previously Presented) The vehicle of claim 8, wherein the account comprises rights and privileges for the vehicle occupant with respect to a vehicle task, function or operation, security and/or authentication requirements and/or credentials for the vehicle occupant, and personal settings of the vehicle occupant and wherein the task, function or operation is monitoring, controlling, and/or operation a vehicle sensor, the vehicle sensor being one or more of: a collision sensor, nearby object sensing system, sensor for setting a seat belt, power source controller and energy output sensor, engine temperature sensor, oil pressure sensor, hydraulic pressure sensor, sensor for headlight, sensor for other light, vehicle control system sensor, steering/torque sensor, wireless network sensor, cellular data sensor, seating system sensor, ambient (outdoor) weather reading sensor, odometer reading sensor, trip mileage reading sensor, road condition sensor, brake wear sensor, oxygen sensor, ambient lighting sensor, vision system sensor, ranging sensor, parking sensor, heating, venting, and air conditioning (HVAC)

sensor, water sensor, air-fuel ratio meter, hall effect sensor, microphone, radio frequency (RF) sensor, and infrared (IR) sensor.

14. (Original) The vehicle of claim 13, wherein the personal settings of the vehicle occupant comprise a plurality of a seat setting, climate control setting, lighting setting, configuration of an instrument cluster on a screen, rear view mirror setting, driving mode, media channel setting or preset, media delivery preference, music genre preference, scheduled program, playlist, synchronization with cloud-based data associated with the vehicle occupant, application-specific personalization and selections, and a display setting and configuration.

15. (Currently Amended) A tangible and non-transient computer readable medium comprising microprocessor executable instructions to perform functions, comprising:

(a) receiving a request from a vehicle occupant to perform a vehicle task, function or operation, wherein the vehicle task, function or operation is one or more of the following: monitoring, controlling, and/or operating an engine control unit ("ECU"), transmission control unit ("TCU"), door setting, window setting, blind spot monitor, safety equipment, [[a]] vehicle sensor, ~~operation of a~~ vehicle engine, head light control unit, power steering, display panel, switch state control unit, power control unit, brake control unit, alert to a user and/or remote monitoring entity of a potential problem with a vehicle operation, emission control, entertainment system, and media and/or multimedia content;

(b) determining that the vehicle occupant has been authenticated successfully;

(c) accessing an account for the vehicle occupant, the account defining rights and privileges of the user with respect to controlling a vehicle task, function or operation;

(d) determining at least one of an area and/or zone occupied by the vehicle occupant and an operating state of the vehicle; and

(e) based upon the account corresponding to the vehicle occupant and the at least one of an area and/or zone occupied by the vehicle occupant and an operating state of the vehicle, applying the following rules:

(i) when the account permits the vehicle occupant to perform the requested vehicle task, function or operation, performing or causing to be performed the vehicle task, function or operation; and

(ii) when the account does not permit the vehicle occupant to perform the requested vehicle task, function or operation, not performing or causing to be performed the vehicle task, function or operation.

16. (Previously Presented) The computer readable medium of claim 15, wherein, in function (e), the microprocessor executable vehicle control system applies the rules based on the account corresponding to the vehicle occupant and the area and/or zone occupied by the vehicle occupant and wherein the vehicle occupant can perform a first set of vehicle tasks, functions or operations when in a first area and/or zone and a different set of vehicle tasks, functions or operations when in a different second area and/or zone.

17. (Previously Presented) The computer readable medium of claim 15, wherein, in function (e), the microprocessor executable vehicle control system applies the rules based on the account corresponding to the vehicle occupant and the operating state of the vehicle and wherein the vehicle occupant can perform a first set of vehicle tasks, functions or operations when the vehicle is in a first operating state and a different set of vehicle tasks, functions, or operations when the vehicle is in a second operating state.

18. (Previously Presented) The computer readable medium of claim 15, wherein rule (i) applies and the vehicle occupant is able to control the requested vehicle task, function or operation using one or more of a cell phone, laptop, tablet computer, and personal digital assistant.

19. (Previously Presented) The computer readable medium of claim 15, wherein a different authentication procedure is used for the vehicle occupant when requesting a first set of vehicle tasks, functions, or operations than when requesting a second set of vehicle tasks, functions or operations.

20. (Previously Presented) The computer readable medium of claim 15, wherein the account comprises rights and privileges for the vehicle occupant with respect to a vehicle task, function or operation, security and/or authentication requirements and/or credentials for the vehicle occupant, and personal settings of the vehicle occupant and wherein the vehicle task, function or operation is one or more of the following: entertainment system and media and/or multimedia content.

21. (Previously Presented) The computer readable medium of claim 20, wherein the personal settings of the vehicle occupant comprise a plurality of a seat setting, climate control setting, lighting setting, configuration of an instrument cluster on a screen, rear view mirror setting, driving mode, media channel setting or preset, media delivery preference, music genre preference, scheduled program, playlist, synchronization with cloud-based data associated with the vehicle occupant, application-specific personalization and selections, and a display setting

and configuration and wherein the task, function or operation is monitoring, controlling, and/or operation a vehicle sensor, the vehicle sensor being one or more of: a collision sensor, nearby object sensing system, sensor for setting a seat belt, power source controller and energy output sensor, engine temperature sensor, oil pressure sensor, hydraulic pressure sensor, sensor for headlight, sensor for other light, vehicle control system sensor, steering/torque sensor, wireless network sensor, cellular data sensor, seating system sensor, ambient (outdoor) weather reading sensor, odometer reading sensor, trip mileage reading sensor, road condition sensor, brake wear sensor, oxygen sensor, ambient lighting sensor, vision system sensor, ranging sensor, parking sensor, heating, venting, and air conditioning (HVAC) sensor, water sensor, air-fuel ratio meter, hall effect sensor, microphone, radio frequency (RF) sensor, and infrared (IR) sensor.

REMARKS/ARGUMENTS

The amendments to paragraph [0126] the specification correct minor typographical errors and do not introduce new matter.

The amendments to Claims 1, 8, and 15 do not require an additional search or examination, and the amendments are requested to further clarify any potential ambiguity in the claims. The claims have not been earlier amended as the need for the amendments was not appreciated when the Amendment and Response was filed.

With regard to the Notice Requiring Inventor's Oath or Declaration, it is noted that an inventor Declaration was submitted to the USPTO on October 3, 2014. However, another copy of the Declaration is submitted herewith.

Accordingly, Applicant believes that the requirements of 37CFR§1.312 and MPEP§714.16 have been satisfied and entry of this amendment is respectfully requested. Although no fees are believed to be due with the filing of this paper, please charge any deficiency or credit any overpayment to Deposit Account 19-1970.

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: July 15, 2015

PTO/AIA/01 (06-12)
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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 14/253,371 filed on April 15, 2014.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Christopher R. Ricci Date (Optional) :

Signature:

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute 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.

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	14/253,371
				Filing Date	April 15, 2014
				First Named Inventor	Christopher P. Ricci
				Art Unit	3663
				Examiner Name	DUNN, ALEX C
Sheet	1	of	1	Attorney Docket Number	6583-588

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	8613385	12/24/2013	Hulet et al.	
	2	2002/0009978	01/24/2002	Dukach et al.	
	3	2002/0065046	05/30/2002	Mankins et al.	
	4	2004/0036622	02/26/2004	Dukach et al.	
	5	2009/0138336	05/28/2009	Ashley et al.	
	6	2010/0106344	04/29/2010	Edwards et al.	
	7	2011/0210867	09/01/2011	Benedikt	
	8	2013/0024060	01/24/2013	Sukkarie et al.	
	9	2013/0055096	02/28/2013	Kim et al.	
	10	2013/0059607	03/07/2013	Herz et al.	
	11	2013/0204455	08/08/2013	Chia et al.	

UNPUBLISHED U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-kind Code[2] (if known)	Filing Date MM-DD-YYYY	Name of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	12	14/684856	04/13/2015	Ricci et al.	

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.
	13	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
	14	Official Action for U.S. Patent Application No. 14/253,334, mailed Jan. 27, 2015 (Attorney's Ref. No. 6583-586) 13 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 Acknowledgement Receipt

EFS ID:	22932133
Application Number:	14253371
International Application Number:	
Confirmation Number:	2967
Title of Invention:	REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES
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:	6583-588
Receipt Date:	16-JUL-2015
Filing Date:	15-APR-2014
Time Stamp:	01:39:52
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	Non Patent Literature	6583-585-PCT_ISR_WO_12-31-2014.pdf	961512 a5c1ca759b403f5d0462b487f4db94b19bd704fd	no	11

Warnings:	
Information:	

2	Other Reference-Patent/App/Search documents	6583-586_OA_01-27-2015.pdf	422982 66475b59f87a800f2c811ebb6b06f3eaacd2d146	no	13
Warnings:					
Information:					
3		IDS_02.pdf	125699 0d7058caa0901105da13988aced38e06ac1bb5b2	yes	3

Multipart Description/PDF files in .zip description

Document Description	Start	End
Transmittal Letter	1	2
Information Disclosure Statement (IDS) Form (SB08)	3	3

Warnings:	
Information:	
Total Files Size (in bytes):	1510193

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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.

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	Authorized officer:
Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	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).

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2014/034194

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.

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.
14/253,334	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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 3663
Christopher P. Ricci	)	Confirmation No.: 2967
Serial No.: 14/253,371	)	Examiner: DUNN, ALEX C
Filed: April 15, 2014	)	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-588	)	
Entitled: "Remote Control of Associated Vehicle Devices"	)	*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. 14/684,856 filed 04/13/2015 (Attorney Ref. No. 6583-585-CON)

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.

DWS

By: /Douglas W. Swartz/
Douglas W. Swartz
Registration No. 37739
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: July 15, 2015

PRINTER RUSH

(PTO ASSISTANCE)

Application:	14253371	**Examiner:**	DUNN	**GAU:**	3663
From:	Bernice Crittenden	**Location:**	RTFM	**Creation Date:**	07/17/2015

Tracking #: Week Date:

DOC CODE	DOC DATE	MISCELLANEOUS
[ ] 1449		[ ] Continuing Data
[ ] IDS		[ ] Foreign Priority
[ ] CLM		[ ] Document Legibility
[ ] IIFW/FWCLM		[ ] Fees
[ ] SRFW		[ ] Petition (TC)
[ ] DRW		[ ] Other
[ ] OATH		
[X] 312	07/15/2015	
[ ] SPEC		

[RUSH] Message:

Please respond to the 07-15-2015 A.NA.

Thank you,
BC

[XRUSH] Response:

Initials: _____

NOTE: This form will be included as part of the official USPTO record with the response document coded as XRUSH.
REV: JUL 15

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,371	04/15/2014	Christopher P. Ricci	6583-588	2967

7590 07/22/2015

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

EXAMINER	
DUNN, ALEX C	

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
07/22/2015	ELECTRONIC

NOTICE OF NON-COMPLIANT INFORMATION DISCLOSURE STATEMENT

An Information Disclosure Statement (IDS) filed 07-16-15 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.

Amy Gerhardt

571-272-4200 or 1-888-786-0101
Application Assistance Unit
Office of Data Management

FORM PTOM327-B (Rev. 02/08)

PRINTER RUSH

(PTO ASSISTANCE)

Application:	14253371	**Examiner:**	DUNN	**GAU:**	3663
From:	Bernice Crittenden	**Location:**	RTFM	**Creation Date:**	07/17/2015

Tracking #: Week Date:

DOC CODE	DOC DATE	MISCELLANEOUS
☐ 1449		☐ Continuing Data
☐ IDS		☐ Foreign Priority
☐ CLM		☐ Document Legibility
☐ IIFW/FWCLM		☐ Fees
☐ SRFW		☐ Petition (TC)
☐ DRW		☐ Other
☐ OATH		
☒ 312	07/15/2015	
☐ SPEC		

[RUSH] Message:

Please respond to the 07-15-2015 A.NA.

Thank you,
BC

[XRUSH] Response:

Entry approved
/ACD/
7/21/2015

Initials: _____

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REV: JUL 15

Entry approved
/ACD/
7/21/2015

AMENDMENTS TO THE SPECIFICATION

Please replace paragraph **[0126]** with the following amended paragraph:

[0126] ~~(b) in response~~(b) in response, reconfiguring, by the media controller subsystem, the graphical user interface by at least one of the following actions to reduce driver distraction and/or make content displayed by the graphical user interface more visible to the driver;[[:]]

Ford Ex. 1002 Page 678 of 746

Entry approved
/ACD/
7/21/2015

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A method, comprising:

(a) receiving, by a microprocessor executable vehicle control system, a request from a vehicle occupant to perform a vehicle task, function or operation;

(b) determining, by the microprocessor executable vehicle control system, that the vehicle occupant has been authenticated successfully;

(c) accessing, by the microprocessor executable vehicle control system, an account for the vehicle occupant, the account defining rights and privileges of the user with respect to controlling a vehicle task, function or operation, wherein the vehicle task, function or operation is one or more of the following: monitoring, controlling, and/or operating an engine control unit ("ECU"), transmission control unit ("TCU"), door setting, window setting, blind spot monitor, safety equipment, [[a]] vehicle sensor, ~~operation of a~~ vehicle engine, head light control unit, power steering, display panel, switch state control unit, power control unit, brake control unit, alert to a user and/or remote monitoring entity of a potential problem with a vehicle operation, emission control, entertainment system, and media and/or multimedia content;

(d) determining, by the microprocessor executable vehicle control system, at least one of an area and/or zone occupied by the vehicle occupant and an operating state of the vehicle; and

(e) based upon the account corresponding to the vehicle occupant and the at least one of an area and/or zone occupied by the vehicle occupant and an operating state of the vehicle, applying, by the microprocessor executable vehicle control system, the following rules:

(i) when the account permits the vehicle occupant to perform the requested vehicle task, function or operation, performing or causing to be performed the vehicle task, function or operation; and

(ii) when the account does not permit the vehicle occupant to perform the requested vehicle task, function or operation, not performing or causing to be performed the vehicle task, function or operation.

Ford Ex. 1002 Page 679 of 746

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,371	04/15/2014	Christopher P. Ricci	6583-588	2967

111285 7590 07/24/2015

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

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
07/24/2015	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

Response to Rule 312 Communication	Application No.	Applicant(s)
	14/253,371	RICCI, CHRISTOPHER P.
	Examiner	Art Unit
	ALEX C. DUNN	3663

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

1. ☒ The amendment filed on *15 July 2015* under 37 CFR 1.312 has been considered, and has been:

   a) ☒ entered.

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

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

   d) ☐ disapproved. See explanation below.

   e) ☐ entered in part. See explanation below.

/THOMAS TARCZA/ Supervisory Patent Examiner, Art Unit 3663	/A. C. D./ Examiner, Art Unit 3663

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

Jul 22, 2015 05:27:58 AM

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UNITED STATES

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Application	Document	Mailroom Date	Attorney Docket No.
14253371	M327	07/22/2015	6583-588

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Application	Document	Mailroom Date	Attorney Docket No.
14253371	N271	07/24/2015	6583-588

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PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/253,371
				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	8	Attorney Docket Number	6583-588

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	4754255	06/28/1988	Sanders et al.	
	2	5296840	03/22/1994	Gieffers	
	3	5529138	06/25/1996	Shaw et al.	
	4	5825283	10/20/1998	Camhi	
	5	6356838	03/12/2002	Paul	
	6	6557752	05/06/2003	Yacoob	
	7	6563910	05/13/2003	Menard et al.	
	8	6675081	01/06/2004	Shuman et al.	
	9	7295904	11/13/2007	Kanevsky et al.	
	10	7526539	04/28/2009	Hsu	
	11	7667618	02/23/2010	Chitor et al.	
	12	8233919	07/31/2012	Haag et al.	
	13	8862299	~~11/16/2012~~ 10/2014	Ricci	
	14	8442758	05/14/2013	Rovik et al.	
	15	8521410	08/27/2013	Mizuno et al.	
	16	8543330	09/24/2013	Taylor et al.	
	17	8552886	10/08/2013	Bensoussan	
	18	8634984	01/21/2014	Sumizawa	
	19	8793034	07/29/2014	Ricci	
	20	8793065	07/29/2014	Seltzer et al.	
	21	8798918	08/05/2014	Onishi et al.	
	22	8818725	08/26/2014	Ricci	
	23	8825277	09/02/2014	McClellan et al.	
	24	8825362	09/02/2014	Kirsch	
	25	8825382	09/02/2014	Liu	
	26	8831826	09/09/2014	Ricci	
	27	8838095	09/16/2014	Jouin	
	28	2002/0026278	02/28/2002	Feldman et al.	
	29	2002/0103622	08/01/2002	Burge	
	30	2003/0065432	04/03/2003	Shuman et al.	
	31	2003/0204290	10/30/2003	Sadler et al.	Change(s) applied to document.
	32	2004/0093155	05/13/2004	Simonds et al.	

Examiner Signature	/Alex Dunn/ (12/07/2014)	Date Considered	12/07/2014 /R.K.C./ 5/14/2015

*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./

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United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,371	09/01/2015	9123186	6583-588	2967

111285 7590 08/12/2015

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;

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

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

Aug 13, 2015 05:56:06 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.
14253371	ISSUE.NTF	08/12/2015	6583-588

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Patent of:

Inventor(s): Christopher P. Ricci

Patent No.: 9,123,186

Issued: September 1, 2015

Atty. File No.: 8283-588

Entitled: "REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES"

Serial No.: 14/253,371

Filed: April 15, 2014

Conf. No. 2967

Submitted via EFS-Web

Attn: Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT FOR PTO MISTAKE PURSUANT TO 37 C.F.R. § 1.322(a)

Dear Commissioner:

This Request for a Certificate of Correction of Patent for PTO Mistake is made pursuant to 37 C.F.R. § 1.322(a). Attached is Form PTO SB/44 containing the text of the corrections which are requested herein. The errors in claims 8 and 16 of the patent are typographical errors and support for the correction may be found in the Response dated March 16, 2015, at pages 4 and 7.

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: January 8, 2016

PTO/SB/44 (09-07)
Approved for use through 08/31/2013. OMB 0651-0033
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.
(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 9,123,186

APPLICATION NO. : 14/253,371

ISSUE DATE : September 1, 2015

INVENTOR(S) : Christopher P. Ricci

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 8, column 126, line 51, delete “s stem” and insert --system--.
Claim 16, column 128, line 35, delete “function” and insert --functions--.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Sheridan Ross P.C.
1560 Broadway, Suite 1200
Denver, CO 80202-5141

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, 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.

Electronic Acknowledgement Receipt

EFS ID:	24577448
Application Number:	14253371
International Application Number:	
Confirmation Number:	2967
Title of Invention:	REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES
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:	8283-588
Receipt Date:	08-JAN-2016
Filing Date:	15-APR-2014
Time Stamp:	19:18:02
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	Request for Certificate of Correction	8283-588_Request-Certificate-Correction.pdf	243182 c8092837d9dc0fb43e463dcb99e9308defb91d07	no	2

Warnings:	
Information:	

Total Files Size (in bytes):	243182

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

CERTIFICATE OF CORRECTION

PATENT NO. : 9,123,186 B2
APPLICATION NO. : 14/253371
DATED : September 1, 2015
INVENTOR(S) : Christopher P. Ricci

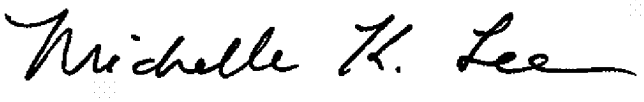
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Claims

Claim 8, column 126, line 51, delete "s stem" and insert --system--.

Claim 16, column 128, line 35, delete "function" and insert --functions--.

Signed and Sealed this
Fifteenth Day of March, 2016



Michelle K. Lee
Director of the United States Patent and Trademark Office

PTO/AIA/81A (02-15)
Approved for use through 01/31/2018. OMB 0651-0035
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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	9,123,186
Issue Date	September 1, 2015
First Named Inventor	Christopher P. Ricci
Title	REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES
Attorney Docket No.	51263-00215

I hereby revoke all previous powers of attorney given in the above-identified patent.

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint Practitioner(s) associated with the Customer Number identified in the box at right as my/our attorney(s) or agent(s) with respect to the patent identified above, and to transact all business in the United States Patent and Trademark Office connected therewith: 25231

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Practitioner(s) Name	Registration Number

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

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		

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.

☑ A total of 1 forms are submitted.

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 update (and by the USPTO to process) the file of a patent or reexamination proceeding. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 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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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:	29595175
Application Number:	14253371
International Application Number:	
Confirmation Number:	2967
Title of Invention:	REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES
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:	8283-588
Receipt Date:	23-JUN-2017
Filing Date:	15-APR-2014
Time Stamp:	16:12:26
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_51263-00215.pdf	262484 0ead66597ebbcd2c7b996a3999b3a98ebe6eb647	no	2

Warnings:

Information:	
Total Files Size (in bytes):	262484

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New Applications Under 35 U.S.C. 111

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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, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/253,371	04/15/2014	Christopher P. Ricci	8283-588

CONFIRMATION NO. 2967

MISCELLANEOUS NOTICE

111285
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202



Date Mailed: 06/28/2017

A communication which cannot be delivered in electronic form has been mailed to the applicant.

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

Jun 28, 2017 03:25:00 AM

Dear PAIR Customer:

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

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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.
14253371	PEFN	06/28/2017	8283-588

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

Doc Code: N572

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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 NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/253,371	04/15/2014	Christopher P. Ricci	8283-588

CONFIRMATION NO. 2967

OC000000092379405

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: 06/27/2017

DENIAL OF REQUEST FOR POWER OF ATTORNEY

The request for Power of Attorney filed 06/23/2017 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

PTO/AIA/81A (02-15)
Approved for use through 01/31/2018. 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

PATENT - POWER OF ATTORNEY OR REVOCATION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS

Patent Number	9,123,186
Issue Date	September 1, 2015
First Named Inventor	Christopher P. Ricci
Title	REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES
Attorney Docket No.	51263-00215

I hereby revoke all previous powers of attorney given in the above-identified patent.

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint Practitioner(s) associated with the Customer Number identified in the box at right as my/our attorney(s) or agent(s) with respect to the patent identified above, and to transact all business in the United States Patent and Trademark Office connected therewith: 25231

OR

☐ I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) with respect to the patent identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

Practitioner(s) Name	Registration Number

Please recognize or change the correspondence address for the above-identified patent to:

☐ The address associated with the above-identified Customer Number.

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OR

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

I am the:

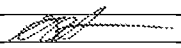
☐ Applicant.

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		

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.

☑ A total of 1 forms are submitted.

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 update (and by the USPTO to process) the file of a patent or reexamination proceeding. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 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.

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

Electronic Acknowledgement Receipt

EFS ID:	29705994
Application Number:	14253371
International Application Number:	
Confirmation Number:	2967
Title of Invention:	REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES
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:	8283-588
Receipt Date:	06-JUL-2017
Filing Date:	15-APR-2014
Time Stamp:	15:51:30
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_51263-00215.pdf	120816 5c528fdba440bac0b341f8d9ecaae1dcf78b2afb	no	3

Warnings:

Information:					
2	Power of Attorney	Corrected_POA_51263-00215.pdf	169023 44ea19ced0d3b2393a4f38bc709cb8102499d8c4	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	289839	

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.: 9,123,186 Filed/Issue Date: September 1, 2015

Titled: REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES

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: 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.

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
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: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, 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

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.

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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.

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
14/253,371	04/15/2014	Christopher P. Ricci	51263-00215

CONFIRMATION NO. 2967

25231
MARSH, FISCHMANN & BREYFOGLE LLP
8055 East Tufts Avenue
Suite 450
Denver, CO 80237

POA ACCEPTANCE LETTER

OC000000092702362

Date Mailed: 07/12/2017

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**.

/rnegga/

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
14/253,371	04/15/2014	Christopher P. Ricci	8283-588

CONFIRMATION NO. 2967

POWER OF ATTORNEY NOTICE

111285
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

OC000000092702338

Date Mailed: 07/12/2017

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 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**.

/rnegga/

To: PTOMail@mfblaw.com,,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 25231

Jul 12, 2017 04:17:10 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.
14253371	N570	07/12/2017	51263-00215
	N570	07/12/2017	51263-00215

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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Electronic Acknowledgement Receipt

EFS ID:	35845796
Application Number:	14253371
International Application Number:	
Confirmation Number:	2967
Title of Invention:	REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	25231
Filer:	Unisha Patel
Filer Authorized By:	
Attorney Docket Number:	51263-00215
Receipt Date:	26-APR-2019
Filing Date:	15-APR-2014
Time Stamp:	14:57:50
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
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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
14/253,371	04/15/2014	Christopher P. Ricci	51263-00215

CONFIRMATION NO. 2967

25231
Marsh Fischmann & Breyfogle LLP
8055 East Tufts Avenue, Suite 450
Denver, CO 80237

POWER OF ATTORNEY NOTICE

OC000000107797001

Date Mailed: 05/01/2019

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/26/2019.

- 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**.

/sibrahim/

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
14/253,371	04/15/2014	Christopher P. Ricci	51263-00215

CONFIRMATION NO. 2967

153965
Patent Ventures, LLC
700 Uccelli Drive
7204
Redwood City, CA 94063

POA ACCEPTANCE LETTER

OC000000107797039

Date Mailed: 05/01/2019

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/26/2019.

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**.

/sibrahim/

To: mo@patvent.com,unisha@patvent.com,USPTO@dockettrak.com
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 153965

May 01, 2019 04:42:27 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.
14253371	N570	05/01/2019	51263-00215
	N570	05/01/2019	51263-00215

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/SB/66 (11-21)
Approved for use through 11/30/2024. OMB 0651-0016
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.

PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

Docket Number (Optional)
51263-00215

Mail to: **Mail Stop Petition**
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Fax: (571) 273-8300

NOTE: If information or assistance is needed in completing this form, please contact the Office of Petitions at (571) 272-3282.

Patent No. 9,123,186 Application Number 14/253,371

Issue Date 09-01-2015 Filing Date 04-15-2014

CAUTION: Maintenance fee payment must correctly identify: (1) the patent number (or reissue patent number, if a reissue) and (2) the application number of the actual U.S. application (or reissue application) leading to issuance of that patent to ensure the fee(s) is/are associated with the correct patent. 37 CFR 1.366(c) and (d).

Also complete the following information, if applicable.

The above-identified patent

☐ is a reissue of original Patent No. _____ original issue date _____

original application number _____

original filing date _____.

☐ resulted from the entry into the U.S. under 35 U.S.C. 371 of international application _____

filed on _____.

NOTE: A grantable petition requires the following items:

(1) Petition fee;
(2) Maintenance fee; and
(3) Statement that the delay in payment of the maintenance fee was unintentional.

CERTIFICATE OF MAILING OR TRANSMISSION (37 CFR 1.8(a))

I hereby certify that this paper (* along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or being transmitted to the U.S. Patent and Trademark Office by EFS-Web, or by facsimile to (571) 273-8300, on the date shown below.

_____ _____
Date Signature

_____
Typed or Printed Name of Person Signing Certificate

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 0651-0016. Public burden for this form is estimated to average 1 hour 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/SB/66 (11-21)
Approved for use through 11/30/2024. OMB 0651-0016
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.

PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

1. SMALL ENTITY

☑ Patentee asserts, or has previously asserted, small entity status. See 37 CFR 1.27.

2. LOSS OF ENTITLEMENT TO SMALL ENTITY STATUS

☐ Patentee is no longer entitled to small entity status. See 37 CFR 1.27(g).

3. MICRO ENTITY

☐ Patentee certifies, or has previously certified, micro entity status. See 37 CFR 1.29
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

4. LOSS OF ENTITLEMENT TO MICRO ENTITY STATUS

☐ Patentee is no longer entitled to micro entity status. See 37 CFR 1.29(i).

5. MAINTENANCE FEE (37 CFR 1.20(e)-(g))

The appropriate maintenance fee must be submitted with this petition, unless it was paid earlier.

Undiscounted			Small Entity			Micro Entity		
Amount	Fee	(Code)	Amount	Fee	(Code)	Amount	Fee	(Code)
☐ $ _____	3½ yr fee	(1551)	☐ $ _____	3½ yr fee	(2551)	☐ $ _____	3½ yr fee	(3551)
☐ $ _____	7½ yr fee	(1552)	☐ $ _____	7½ yr fee	(2552)	☐ $ _____	7½ yr fee	(3552)
☐ $ _____	11½ yr fee	(1553)	☐ $ _____	11½ yr fee	(2553)	☐ $ _____	11½ yr fee	(3553)

MAINTENANCE FEE BEING SUBMITTED $ 800

6. PETITION FEE

The petition fee required by 37 CFR 1.17(m) of:

$ _____ Undiscounted (Fee Code 1558); or

$ _____ Small Entity (Fee Code 2558); or

$ _____ Micro Entity (Fee Code 3558)

must be paid as a condition of accepting an unintentionally delayed payment of a maintenance fee.

PETITION FEE BEING SUBMITTED $ 1000

7. MANNER OF PAYMENT

☐ Enclosed is a check for the sum of $ _____

☐ Please charge Deposit Account No. _____ the sum of $ _____

☑ Payment by credit card. Form PTO-2038 is attached.

☑ Payment made via EFS-Web.

8. AUTHORIZATION TO CHARGE ANY FEE DEFICIENCY

☐ The Director is hereby authorized to charge any maintenance fee or petition deficiency to Deposit Account No. _____

PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

9. OVERPAYMENT

As to any overpayment made, please

☐ Credit to Deposit Account No. _____

OR

☐ Send refund check

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information, such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form (PTO-2038) submitted for payment purposes), is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioner/applicant should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms (PTO-2038) submitted for payment purposes are not retained in the application file and therefore are not publicly available.

10. STATEMENT

The delay in payment of the maintenance fee for this patent was unintentional.

Petitioner is reminded that a delay resulting from a deliberately chosen course of action or a change in circumstance is not an unintentional delay.

Petitioner 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.

☑ Because this petition under 37 CFR 1.378 is being filed more than two years after the date the patent expired for nonpayment of the maintenance fee, additional explanation of the circumstances surrounding the delay that establishes the entire delay was unintentional is enclosed herewith.

PTO/SB/66 (11-21)
Approved for use through 11/30/2024. OMB 0651-0016
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.

PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

11. PETITIONER REQUESTS THAT THE DELAYED PAYMENT OF THE MAINTENANCE FEE BE ACCEPTED AND THE PATENT BE REINSTATED.

6-14-2022
Date

/Unisha Patel/
Signature(s) of Petitioner

72449
Registration Number, if applicable

Unisha Patel
Typed or Printed Name

9088126409
Telephone Number

1655 Delano Street, Unit 32 Milpitas CA 95035
Address

Address

37 CFR 1.378(c) states: "Any petition under this section must be signed in compliance with § 1.33(b)."

12. ENCLOSURES

- [ ] Maintenance Fee Payment
- [x] Petition fee under 37 CFR 1.17(m) (fee for filing the maintenance fee petition)
- [x] Additional sheet(s) containing statement establishing unintentional delay
- [ ] Other: _____

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 this information under authority of 5 CFR 1.290. The information in this system of records is used to manage all records of applicant including name, citizenship, residence, post office address and other information with respect to inventors and their legal representatives pertaining to the applicant's activities in connection with the invention for which a patent is sought. This information is protected from disclosure to third parties in accordance with the Privacy Act.

However, routine uses of this information may include disclosure to the following: to law enforcement and investigation in the event that the system of records indicates a violation or potential violation of law; to a Federal, state, local, or international agency, in response to its request; to an agency, organization, or individual for the purpose of performing audit or oversight operations as authorized by law; to non-federal personnel under contract to the agency; to a court for adjudication and litigation; to the Department of Justice for Freedom of Information Act (FOIA) assistance; to members of congress working on behalf of an individual; to the Office of Personnel Management (OPM) for personnel research purposes; to National Archives and Records Administration for inspection of records; and to the Office of Management and Budget (OMB)for legislative coordination and clearance. Failure to provide any part of the requested information may result in an inability to process requests for access and information. The applicable Privacy Act System of Records Notice for this information is COMMERCE/PAT-TM-7 Patent Application Files, available at Federal Register / Vol. 78, No. 61 / Friday, March 29, 2013 /Notices 19243. https://www.govinfo.gov/content/pkg/FR-2013-03-29pdf/2013-07341.pdf

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Christopher P. Ricci

Confirmation Number: 2967

Application No.: 14/253,371

Filed: 04-15-2014

For: REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES

Petition under 37 CFR 1.378

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

Madam/Sir:

The Applicant requests that the Office reinstate the issued patent associated with the above-referenced application. The patent expired in late 2019 due to an unintentional delay in the payment of the required maintenance fee. Upon learning of the overdue maintenance fee and because the entire delay was unintentional under 37 CFR 1.378, both the petition fee and the maintenance fees were paid on January 17th, 2020. Although the Office appears to have accepted the delayed maintenance fee payment given that the Office did not refund the maintenance fee, it has recently come to Applicant's attention that the patent has not been reinstated because of a failure to submit the form SB66. Filed along with this additional statement is the petition Form SB66.

The Applicant requests that the Office consider the above explanation and reinstate the patent.

Respectfully submitted,

/Unisha Patel/
Unisha Patel
Registration No.: 72449

Electronic Acknowledgement Receipt

EFS ID:	45964011
Application Number:	14253371
International Application Number:	
Confirmation Number:	2967
Title of Invention:	REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	153965
Filer:	Unisha Patel
Filer Authorized By:	
Attorney Docket Number:	51263-00215
Receipt Date:	15-JUN-2022
Filing Date:	15-APR-2014
Time Stamp:	14:49:05
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	Petition for review by the Office of Petitions	SB6651263-00215.pdf	318125 4875807 1f7344659f8731fbdb1d7108d4aa0cb5f	no	5

Warnings:

Information:					
2	Miscellaneous Incoming Letter	Statement51264-00215.pdf	34137 beef5b71336187c2be15a89307dc57f8af55b79a	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	352262		

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
14/253,371	04/15/2014	Christopher P. Ricci	51263-00215	168238

Acknowledgement of Change to Small Entity Status

The entity status change request below filed through Private PAIR on 06/15/2022 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
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.
14/253,371	04/15/2014	Christopher P. Ricci	51263-00215	2967

153965 7590 11/08/2022

Patent Ventures, LLC
1655 Delano Street, 32
Milpitas, CA 93035

EXAMINER	
DUNN, ALEX C	

ART UNIT	PAPER NUMBER
3667	

NOTIFICATION DATE	DELIVERY MODE
11/08/2022	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):

USPTO@dockettrak.com
mo@patvent.com
unisha@patvent.com

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

In re Patent No. 9,123,186	:	
Issue Date: 2015 Sep 1	:	DECISION ON PETITION
Application No. 14/253,371	:	
Filing or 371(c) Date: 15 Apr 2014	:	
Attorney Docket No. 6583-588	:	

This is a decision on the petition under 37 CFR 1.378(b), filed June 15, 2022, to accept the unintentionally delayed payment of a maintenance fee for the above-identified patent.

The petition is **DISMISSED**.

Any request for reconsideration under 37 CFR 1.378(d) may be filed within **TWO (2) MONTHS** from the mail date of this decision. Extensions of time under 37 CFR 1.136(a) are permitted. This is not a final agency action within the meaning of 5 USC 704.

A maintenance fee payment is required in a patent at 3.5 years, 7.5 years, and 11.5 years from the date of issuance. A petition may be filed to accept the unintentionally delayed payment of a maintenance fee in the event that a maintenance fee is not timely paid.

The subject patent expired September 4, 2019 for failure to timely submit the 3.5 year maintenance fee.

A petition to accept the unintentionally delayed payment of a maintenance fee under 35 U.S.C. 41(c) and 37 CFR 1.378(b) must be accompanied by: (1) a statement that the delay was unintentional; (2) payment of the appropriate maintenance fee, unless previously submitted; and (3) payment of the petition fee set forth in 37 CFR 1.17(m). Where there is a question as to whether the delay in payment of the maintenance fee under 35 U.S.C. 41(c) and 37 CFR 1.378(b) was unintentional, the Director may require additional information. This change went into effect on December 18, 2013, the effective date of the Patent Law Treaties Implementation Act, and applies to this petition. The petition lacks items (1) above regarding the 3.5 year maintenance fee.

Regarding item (1), the USPTO requires additional information concerning whether a delay in seeking acceptance of a delayed maintenance fee payment was unintentional where the petition to accept such maintenance fee payment was filed more than two years after the date the patent expired for nonpayment. *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).

In this instance, a petition under 37 CFR 1.378(b) was filed more than two years after the patent expired for nonpayment of a maintenance fee. Therefore, petitioner must provide sufficient information of the facts and circumstances surrounding the entire delay to support a conclusion that the entire delay was unintentional. *Id.* at 12223. Details regarding the cause of petitioner's nonpayment of a maintenance fee that resulted in expiration of the patent, when the expiration of the patent was discovered, and the delay between discovery of the expiration of the patent and filing of the petition under 37 CFR 1.378(b) are of particular relevance. Petitioner should provide relevant dates and identify responsible parties where appropriate.

Petitioner should note that the party whose delay is relevant is the party having the right or authority to make the timely maintenance fee payment in the above-identified patent. When the entire right, title, and interest in patent have been assigned to a third party (and thus does not retain any legal or equitable interest in the invention), the delay of the patentee to whom the patent was issued is irrelevant in evaluating whether the delay was unintentional. *See Kim v. Quigg*, 718 F. Supp. 1280, 1284, 12 USPQ2d 1604, 1607-08 (E.D. Va. 1989).

See MPEP §§ 711.03(c)(II)(C)-(H) and 2590(I) for additional guidance on the information required to establish that the entire delay was unintentional.

Petitioner asserts that the petition fee and 3.5 year maintenance fee were paid January 17, 2020, after learning that the patent had expired, but that the patent was not reinstated. Petitioner states that it recently discovered that the patent was not reinstated because of a failure to submit form SB66.

There are three periods to be evaluated in the review of a petition to accept a delayed maintenance fee: (1) the period which lead to the initial delay in the payment of the maintenance fee; (2) the period of delay in filing an initial petition to accept the delayed maintenance fee payment, and (3) the filing of a grantable petition to accept the delayed maintenance fee payment.

A review of the record reveals that the 3.5 year maintenance fee and petition fee were received January 17, 2020. However no petition form or other request for a petition was filed with the payment. In view of the circumstances, petitioner must explain in more specificity when it was learned that, despite the previous submission of the petition fee and maintenance fee, a petition to accept the delayed maintenance fee had not been filed and accepted. If any delay occurred between petitioner's discovery that a proper petition had not been previously filed and the filing of the subject petition, an adequate explanation of that delay must be provided.

It is further noted that the window for acceptance of the 7.5 year maintenance fee opened September 1, 2022. The 7.5 year maintenance fee is due with a surcharge March 2, 2023. The last day to timely pay the 7.5 year maintenance fee is September 1, 2023.

Further correspondence with respect to this decision should be delivered through one of the following mediums:

By mail: Mail Stop PETITIONS
Commissioner for Patents
Post Office Box 1450
Alexandria, VA 22313-1450

By hand: Customer Service Window
Mail Stop Petitions, Randolph Building
401 Dulany Street
Alexandria, VA 22314

By fax: (571)273-8300
ATTN: Office of Petitions

By internet: EFS-Web[1]

Any questions concerning this decision may be directed to the undersigned at (571)272-3231.

/DOUGLAS I WOOD/
Attorney Advisor, OPET

[1] www.uspto.gov/ebc/efs_help.html (for help using EFS-Web call the Patent Electronic Business Center at (866) 217-9197).

To: mo@patvent.com,unisha@patvent.com,USPTO@dockettrak.com
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 153965

Nov 08, 2022 03:20:25 AM

Dear PAIR Customer:

Patent Ventures, LLC
1655 Delano Street, 32
Milpitas, CA 93035
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.
14253371	PETDEC	11/08/2022	51263-00215

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent No. 9,123,186

Inventor: Christopher P. Ricci

Confirmation Number:

Application No.: 14/253,371

Filed: April 15, 2014

Title: REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES

Renewed Petition under 37 CFR 1.378

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

Madam/Sir:

This Request for Reconsideration is filed in response to the November 8, 2022, Decision on Patent Owner's June 15, 2022, Petition under 37 CFR 1.378 to revive Patent No. 9,123,186 for the unintentional failure to pay maintenance fees. Patent Owner respectfully submits that the petition to revive should be granted for three separate reasons. First, the Patent Office already accepted the maintenance and petition fees in 2020, such that "the patent shall be considered as not having expired." Second, any failure to submit the only item missing from its January 2020 submission to revive the patent—Form SB66—was unintentional and was promptly filed when the issue was discovered. Third, Patent Owner diligently investigated the facts following its May 6, 2022, discovery that the Office had deemed the patent expired and confirmed that the failure to timely pay the maintenance fee was unintentional, any delays in resolving the untimely filing of the petition to revive was unintentional, and that at no time did anyone with an ownership interest in the patent intend to abandon the patent for failure to pay maintenance fees.

1. 35 U.S.C. § 41(c) Confirms the Patent Is Revived

The 3.5 year maintenance fee for Patent No. 9,117,318 was due on September 3, 2019. On January 17, 2020, a maintenance fee of $800 and a fee of $1000 for "Petition for the delayed payment of the fee for maintaining a patent in force" was paid. The Office accepted both payments. The November 8, 2022, Action confirms that the appropriate maintenance and petition fees had been paid and indicated that only additional information concerning whether "whether a delay in seeking acceptance of a delayed maintenance fee payment was unintentional where the petition to accept such maintenance fee payment was filed more than two years after

the date the patent expired for nonpayment."

Patent Owner submits that the Office's Acceptance of the maintenance fee and petition fee in January 2020, which has never been refunded, confirms that the patent should be revived. MPEP 2531 states that "If the Office considers a payment to be late or insufficient, a notice (e.g., a Notice of Non-Acceptance of Patent Maintenance Fee (PTO-2142) will be sent to the 'fee submitter.'"). There is no record of any such notice ever being provided. In addition, the payments were never refunded. *See also* 37 CFR 1.378(e) ("If the delayed payment of the maintenance fee is not accepted, the maintenance fee will be refunded following the decision on the petition for reconsideration, or after the expiration of the time for filing such a petition for reconsideration, if none is filed"). According to 35 U.S.C. § 41(c), "If the Director accepts payment of a maintenance fee after the 6-month grace period, **the patent shall be considered as not having expired at the end of the grace period**." As the maintenance and petition fees were accepted by the Office in January 2020, Applicant respectfully submits the identified patent must be considered revived.

2. The Failure to Submit Form SB66 in January 2020 Was Unintentional

Applicant also submits that the patent should be revived because the only requirement Patent Owner ostensibly failed to perform for revival of the patent was the submission of Form SB66. That failure was unintentional. *See* attached December 28, 2022, Declaration of Gregg Hershenson at ¶ 12 ("I understand from IP Optimum that legal counsel electronically filed a petition to revive but we do not have a record of the electronic filing."). As soon as Patent Owner discovered the apparent failure to submit Form SB66 on about May 6, 2022, it performed an investigation into the failure to pay maintenance fees and filed a petition to revive on June 15, 2022. *Id.* at ¶ 13. Thus, the delay in filing the petition was unintentional and Patent Owner diligently resolved the issue as soon as it was discovered. For this additional reason, Patent Owner respectfully submits the patent should be revived.

3. The Failure to Pay Maintenance Fees and Submit a Petition by September 2019 Was Unintentional

On about May 6, 2022, Patent Owner discovered from outside legal counsel that despite the Office's acceptance of payment of both the 3.5 year maintenance fee and a supporting petition to revive, the patent had been declared abandoned for failure to pay maintenance fees. Thereafter, Patent Owner investigated the facts surrounding the untimely payment of maintenance fees and filed a renewed petition to revive without delay. The Hershenson Declaration establishes that (1) there was no intentional failure or delay in paying the 3.5 year maintenance fee or submitting a petition to revive, and (2) that promptly upon discovering the fact the patent had not been revived, Patent Owner performed an investigation confirming there

was no intent to abandon the patent and submitted a renewed petition to revive. For this additional reason, Applicant requests that the Office revive the identified patent.

4. No Further Payment of Fees Required

The Decision on Petition confirms that Patent Owner already paid the 3.5 year maintenance fees and petition fees.

Patent Owner requests that the Office consider the above explanation and deem the identified patent revived.

Respectfully submitted,

/Unisha Patel/
Unisha Patel
Registration No.: 72449

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applications of

Inventor: Christopher P. Ricci

Petition under 37 CFR 1.378

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

DECLARATION OF GREGG HERSHENSON
IN SUPPORT OF PETITION UNDER 37 CFR 1.378

I, Gregg Hershenson, hereby declare and state as follows:

1. I am the Chief Executive Officer of AutoConnect Holdings, LLC, and have held that role since the company's inception. On June 15, 2022, AutoConnect submitted petitions under 37 CFR 1.378(b) to reinstate issued patents where overdue maintenance fees were accepted but the patents were not reinstated because of a failure to submit form SB66. An October 28, 2022, communication dismissed one of the petitions relating to U.S. Patent No. 9,123,058 (application 13/678,710) and requested additional information regarding the delay in a renewed petition. Additional facts requested by the Office are addressed herein.

2. AutoConnect focuses on the development of technology for improving vehicular connectivity, including through mobile device integration, remote configuration, formation of vehicle-to-vehicle safety networks, and improved infotainment platforms. AutoConnect's patent portfolio, which currently includes over 70 issued patents in the United States, is a key asset of the company. AutoConnect's patent portfolio includes the following patents (collectively the "Subject Patents"):

- 9,117,318 (application 14/253,406)
- 9,123,058 (application 13/678,710)
- 9,123,186 (application 14/253,371)
- 9,134,986 (application 14/485,467)
- 9,135,764 (application 14/253,766)

3. On May 15, 2019, before any of the Subject Patents had expired for failure to pay maintenance fees, AutoConnect entered into a Patent Purchase Agreement ("PPA") with IP Optimum Limited, under which title to AutoConnect's patent portfolio, including the Subject Patents, was assigned to IP Optimum. AutoConnect and IP Optimum included provisions in the PPA to ensure the payment of any maintenance fees due and payable on the Subject Patents for the period commencing after the closing date for the PPA on May 20, 2019. Specifically, Section 5.5 of the agreement states that "Purchaser will pay any maintenance fees, annuities, and the like due and payable on the Patents for the period commencing after the [May 20, 2019] Closing Date." Based on this provision, AutoConnect understood that IP Optimum was required to pay maintenance fees for the Subject Patents.

4. The PPA was structured so that AutoConnect had various ongoing interests in the assigned patents, including the Subject Patents. Specifically, AutoConnect secured a reversionary right to reacquire the patents for no compensation if certain conditions were not satisfied. On March 27, 2020, AutoConnect exercised its right to reacquire the patents, including the Subject Patents.

5. The Subject Patents all expired during the period between August 26, 2019, and September 16, 2019. This was several months after the execution of the PPA and before AutoConnect required the patents.

6. Earlier this year, around May 6, 2022, outside counsel discovered and brought to our attention that the Subject Patents had expired due to failure to pay maintenance fees. Until this date, AutoConnect was unaware that any the Subject Patents had expired as a result of a failure to pay maintenance fees, and so had no reason to pay the outstanding maintenance fees or file a petition under 37 CFR 1.378(b) seeking to revive them. After learning that the Subject Patents had expired, I immediately undertook efforts to investigate the missing maintenance fee payments. Consistent with the provisions in the PPA where both AutoConnect and IP Optimum agreed that all maintenance fees on the patent should be paid, I have confirmed that the failure to pay maintenance fees on the Subject Patents was unintentional.

7. During my investigation, I confirmed with the co-owners of AutoConnect, Christopher Ricci and Peter Sousa, that there was never any decision or intent to allow the Subject Patents to expire. Similarly, I confirmed that AutoConnect never authorized or instructed IP Optimum to abandon any patents for any reason, including through a failure to pay maintenance fees.

8. My investigation also included discussions with AutoConnect's patent counsel, who confirmed there was never an intention or instruction to let the Subject Patents expire.

9. In addition, upon learning of the expiration of the Subject Patents, I contacted several persons that were either employed by or associated with IP Optimum during the relevant time frame, including those who would have been knowledgeable about decisions to pay maintenance fees. I confirmed that IP Optimum's outside patent counsel, Darrin Auito, Esq., never received instructions not to pay maintenance fees or any instruction to otherwise abandon the Subject Patents. I also spoke with Kathy Grubbs, Esq., who was also involved

with IP Optimum in the relevant time frame. Ms. Grubbs also confirmed she was unaware of any decisions or instructions not to pay maintenance fees. More recently, I contacted Pascal Asselot and Erich Spangenberg, who were also involved with IP Optimum during the relevant time frame. Both confirmed they were unaware of intention or any decision to abandon patents. These discussions with individuals formerly associated with IP Optimum are consistent with the requirement to pay maintenance fees by the PPA and further confirm that the nonpayment of maintenance fees was unintentional.

10. In summary, at no point in time, either before or after execution of the PPA, did AutoConnect or IP Optimum intend, or otherwise elect, to abandon the Subject Patents. At all times it was AutoConnect's belief and understanding that all maintenance fees had been paid and the Subject Patents (as with all other patents that were the subject of the PPA) remained in full force and effect.

11. Based on our investigation, the failure to pay maintenance fees was accidental and appears to have resulted from confusion over provisions of the PPA that covered the payment of maintenance fees with a final deadline in the September to November 2019 time frame. For example, in addition to Section 5.5 of the agreement, which states that "Purchaser will pay any maintenance fees, annuities, and the like due and payable on the Patents for the period commencing after the [May 20, 2019] Closing Date," Section 6.11 of the PPA also addressed the payment of maintenance fees:

6.11 Prosecution Obligations; Fees. No undisclosed actions must be taken by Seller before any governmental entity (including the United States Patent and Trademark Office or equivalent authority anywhere in the world) within ninety (90) days of the Closing Date with respect to any of the Assigned Patent Rights. All maintenance fees, annuities, and the like due or payable on the Patents until the lapse of ninety (90) days following the Closing Date have been timely paid. For the avoidance of doubt, such timely payment includes payment of registration, maintenance, and renewal fees for which the fee payment window has opened even if the surcharge date is in the future. Notwithstanding the forgoing, responsibility for obligation to respond to prosecution matters, and associated expenses, will transfer to Purchaser immediately upon closing. At least sixty (60) days prior to the date by which action must be taken to avoid abandonment of a pending application, Purchaser shall provide Seller with notice if it intends to abandon such application and provide Seller an opportunity to reacquire the application at no cost ("Reacquired Applications"). Purchaser shall retain a non-exclusive license to Reacquired Applications with the right to grant a sublicense to any third party who receives a license to part or all of the remaining Patents.

Under Section 6.11, AutoConnect (Seller) agreed it has paid all maintenance fees "due or payable . . . within ninety (90) days following the [May 20, 2019] Closing Date." The agreement then states that "For the avoidance of doubt, such timely payment includes payment of . . . maintenance . . . fees for which the fee payment window has opened even if the surcharge date is in the future." AutoConnect misapplied this Section of the PPA and used *the deadline* for payment of maintenance fees as the operative date for determining which of Seller and Purchaser was responsible for paying maintenance fees. Section 6.11 appears to indicate that the operative date for payment by AutoConnect was when *the window for the payment of maintenance fees first opened*, not the payment deadline, which was several months after the parties executed the PPA.

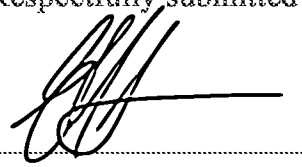
12. Based on my investigation in 2022, I understand that IP Optimum discovered, around January 2020, that the maintenance fees for the Subject Patents had not been paid by AutoConnect. IP Optimum paid $800 toward the maintenance fees on January 17, 2020. Apparently, however, the payment was not accepted because it was not submitted with a petition under 37 CFR 1.378(c). I understand from IP Optimum that legal counsel electronically filed a petition to revive but we do not have a record of the electronic filing.

Once we learned around May 6, 2022, that the January 17, 2020, maintenance fee payment was accepted but the patent had not been revived as a result of a missing petition under 37 CFR 1.378(c), we submitted a petition under 37 CFR 1.378(c) on June 15, 2020.

13. My investigation began immediately after May 6, 2022, when I first learned that the Subject Patents had expired and finished just before our original petition to revive on June 15, 2022. I completed my investigation and AutoConnect filed its petition to revive as diligently as possible. The only reason for the passage of time between May 6, 2022, and the date AutoConnect filed petitions to revive under 37 CFR 1.378 was to perform an investigation into the issue and prepare the paperwork necessary to support the petition.

14. I declare that all statements made herein are true to the best of my knowledge, or if made upon information and belief, are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Respectfully submitted on this 28th day of December 2022.



Gregg Hershenson
CEO
AutoConnect Holdings, LLC

Electronic Acknowledgement Receipt

EFS ID:	47330136
Application Number:	14253371
International Application Number:	
Confirmation Number:	2967
Title of Invention:	REMOTE CONTROL OF ASSOCIATED VEHICLE DEVICES
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	153965
Filer:	Unisha Patel
Filer Authorized By:	
Attorney Docket Number:	51263-00215
Receipt Date:	06-JAN-2023
Filing Date:	15-APR-2014
Time Stamp:	12:59:53
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	Petition for review by the Office of Petitions	Petition1378.pdf	38524 4e235d6ebd3b3f7fed706686e36c3fd304c558ea	no	3

Warnings:

Information:					
2	Miscellaneous Incoming Letter	GreggDecleration.pdf	691712 159975895b203900e45e51af22b1cb88c779f2f2	no	6
Warnings:					
Information:					
			Total Files Size (in bytes):	730236	

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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.

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,371	04/15/2014	Christopher P. Ricci	51263-00215	2967

153965 7590 02/21/2023

Patent Ventures, LLC
1655 Delano Street, 32
Milpitas, CA 93035

EXAMINER	
DUNN, ALEX C	

ART UNIT	PAPER NUMBER
3667	

NOTIFICATION DATE	DELIVERY MODE
02/21/2023	ELECTRONIC

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

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

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

USPTO@dockettrak.com
mo@patvent.com
unisha@patvent.com

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

In re Patent No. 9,123,186	:	
Issue Date: 2015 Sep 1	:	DECISION ON PETITION
Application No. 14/253,371	:	
Filing or 371(c) Date: 15 Apr 2014	:	
Attorney Docket No. 6583-588	:	

This is a decision on the renewed petition under 37 CFR 1.378(b), filed January 6, 2023, to accept the unintentionally delayed payment of a maintenance fee for the above-identified patent.

The above patent expired for failure to timely submit the 3 ½ year maintenance fee by September 3, 2019. However, since petitioner has demonstrated to the satisfaction of the Director that the delay in timely paying the maintenance fee was unintentional, the petition under 37 CFR 1.378(b) is hereby **GRANTED**.

Petitioner has provided an adequate explanation that the delay was due to an apparent failure to submit a petition to accept the delayed maintenance fee with the petition fee payment and maintenance fee payment filed January 17, 2020, and that the initial petition was timely filed after learning that a grantable petition had not been previously filed.

The maintenance fee is hereby accepted and the above-identified patent is reinstated as of the mail date of this decision.

Telephone inquiries should be directed to the undersigned at (571) 272-3231.

/DOUGLAS I WOOD/
Attorney Advisor, OPET

To: mo@patvent.com,unisha@patvent.com,USPTO@dockettrak.com
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 153965

Feb 22, 2023 12:50:32 PM

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Application	Document	Mailroom Date	Attorney Docket No.
14253371	PETDEC	02/21/2023	51263-00215

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Monday - Friday 6:00 a.m. to 12:00 a.m.

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