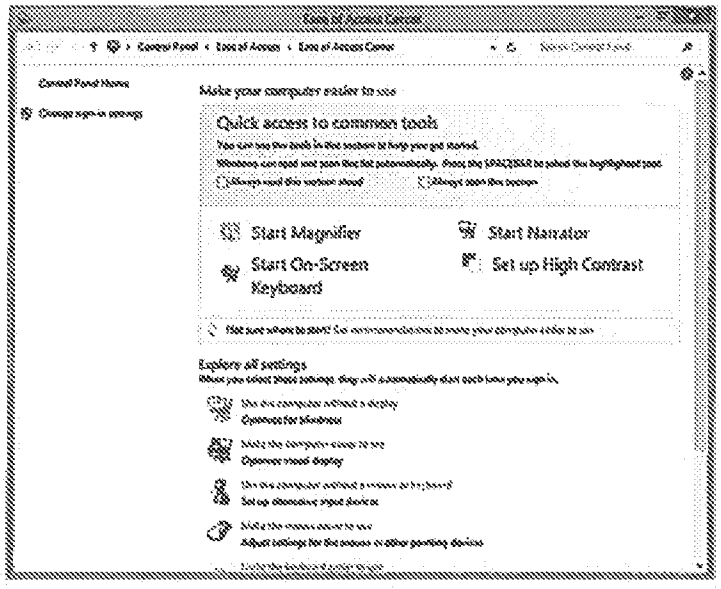
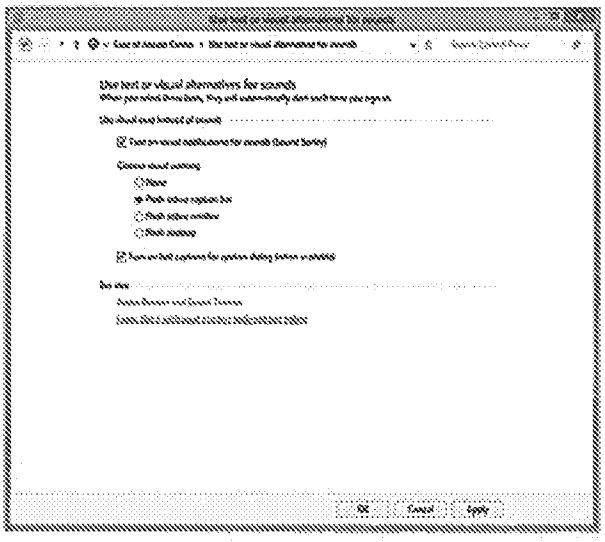
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Ease of Access Center in Control Panel

Use text or visual alternatives for sounds

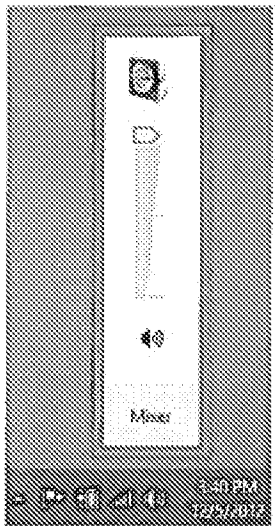
Under **Use text or visual alternatives for sounds** in the Ease of Access Center you will find options for using visual cues to replace sounds in many programs, and access to the audio sound themes control panel.



"Use text or visual alternatives for sounds" screen in Control Panel

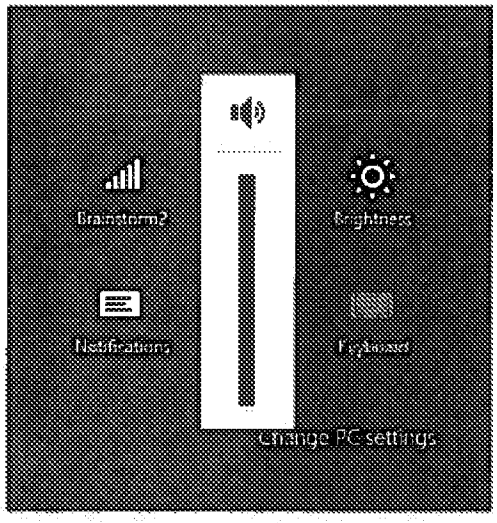
Adjust computer volume

Although most speakers have a volume control, you can also control speaker volume using Windows. The quickest way to change the speaker volume for your computer is to click the **Speakers** button in the notification area of the taskbar while in desktop view, and then to move the slider up or down to increase or decrease the speaker volume.



Computer volume control slider

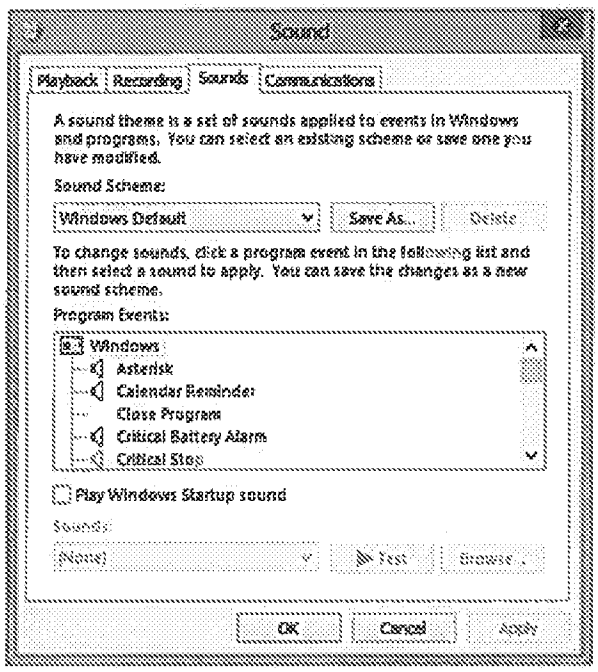
While on the Start screen, swipe in from the top right of the screen and select **Settings**. Then click the **Speakers** icon and adjust the slider bar up or down to increase or decrease the computer volume.



Volume control in Windows 8 Settings

Change computer sounds

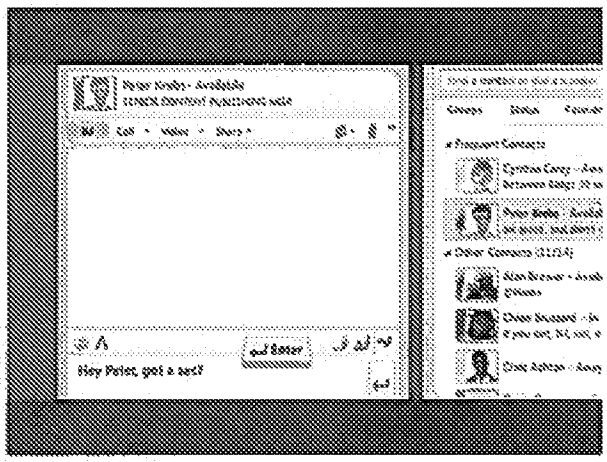
You can have your computer play a sound when certain events occur on your computer. (An event can be an action that you perform, such as logging on to your computer, or an action that your computer performs, such as alerting you when you receive new email.) Windows comes with several sound schemes (a collection of related sounds) for common events. Additionally, some desktop themes have their own sound schemes. To change sound schemes, press the **Windows logo key+U**, while in the desktop view to open the Ease of Access Center. Select **Use text or visual alternatives for sounds**. Then select **Audio Devices and Sounds**. In the **Sound** dialog box, select the **Sounds** tab. Select the program events and associated sounds you want to comprise a new sound scheme.



Sound dialog box open to the Sounds tab

Use Office features for hearing solutions

Depending on the learning or work environment, individuals may be able to use a combination of Windows, Microsoft Outlook, and Microsoft Lync, to communicate via text rather than spoken dialogue with classmates or workmates in real time.



Instant messaging using Lync

Microsoft Lync 2013 provides a single interface that unites voice communications, instant messaging, and audio, video, and web conferencing.

People who are deaf or have hearing impairments can communicate effectively using email, text messaging on phones and other devices, and communications interfaces such as Microsoft Lync.

Find assistive technology for hearing impairments

You can shop for assistive technology products compatible with Microsoft Windows made by independent assistive technology companies. People who

have hearing impairments may be interested in the following assistive technology:

- **Sign language interpretation** is useful for students and others with hearing impairments to enable them to actively communicate in the classroom and other settings.
- **Personal listening devices** and personal amplifying products can also be helpful for people with some hearing.
- **Sign language translators** such as iCommunicator which is a graphical sign language translator that converts speech to sign language in real time can enable people who are deaf to communicate more easily with hearing people.

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Samsung AllShare Cast Hub review:

Meet Samsung's version of Apple AirPlay

REVIEW USER REVIEWS SPECIFICATIONS PRICES



WHERE TO BUY / SEE ALL PRICES

Samsung AllShare Cast Hub

Part Number: EAD-T10JDEGSTA /

MSRP: $99.99

LOW PRICE: $54.99

Amazon.com $55.48 SEE IT

Best Buy $56.99 SEE IT

eBay

Ford Ex. 1002

PCT/US2014/034098 15.09.2014

0 / / / / / more +

Review Date: October 10, 2012 Updated on: October 10, 2012

The Good / The **Samsung AllShare Cast Hub** pushes phone media to HDTVs without wires. The device also mirrors what's displayed on phone screens for HDTV viewing.

The Bad / Setting up the Samsung AllShare Cast Hub isn't intuitive. The device only supports a few recent Samsung devices.

The Bottom Line / The Samsung AllShare Cast Hub is worthwhile only for select Samsung mobile device owners absolutely dying to view mobile content on their HDTVs.

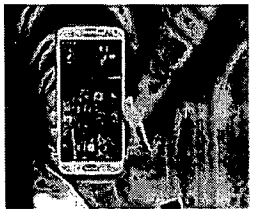
$54.99 SEE IT

Walmart.com

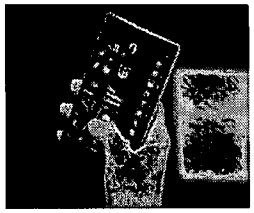
$56.61 SEE IT

See all prices »

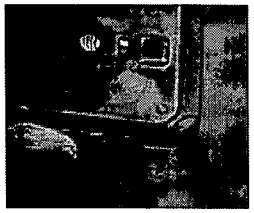
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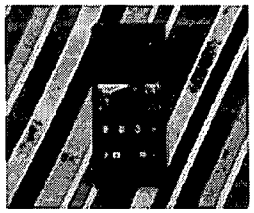
Samsung Galaxy S5
Starting at: **$99.00**
★★★★★



Nokia Lumia Icon (Verizon Wireless)
Starting at: **$149.99**
★★★★½



Samsung Galaxy S5 Active
Starting at: **$199.99**
★★★★½



Sony Xperia Z2
Starting at: **$548.14**
★★★★½

MSRP:
$99.99
LOW PRICE:
$54.99

Amazon.com [redacted]

Apple's AirPlay feature has bridged the living room/mobile handset divide for a while now, but Android smartphones have become extremely capable multimedia devices in their own right too. Equipped with high-resolution cameras, advanced audio and video players plus plenty of memory for storage, they now tackle the same multimedia tricks as the vaunted iPhone. Factor in how modern **Android phones** connect to myriad online

QUICK SPECIFICATIONS / SEE ALL

CE Product Type	Wireless media hub

ABOUT THE AUTHOR /



Brian Bennett

Brian Bennett is senior editor for appliances at CNET and reviews a wide range of household and smart-home products. These include everything from microwave ovens, blenders, ranges and coffee makers to personal weather stations. An NYC native, Brian now resides in bucolic Louisville, Kentucky where he dreams of someday owning the sparkling house of the future.

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$55.48 SEE IT

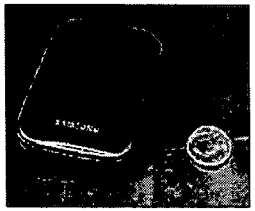
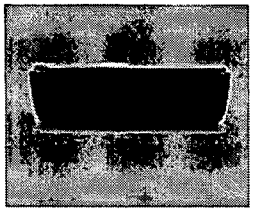
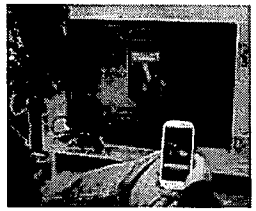
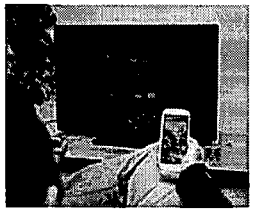
Best Buy
$56.99 SEE IT

eBay
$54.99 SEE IT

See all prices »

entertainment services, and it's easy to see the appeal of a product like the $99.99 Samsung AllShare Cast Hub. The AllShare is built to push audio and video content from Samsung's latest handsets, including the Galaxy S III, to HDTVs without wires. While the accessory isn't cheap, and initial setup tricky, the AllShare Cast Hub gets the job done.

SAMSUNG'S ALLSHARE HUB MIRRORS PHONE MEDIA (PICTURES) SEE FULL GALLERY

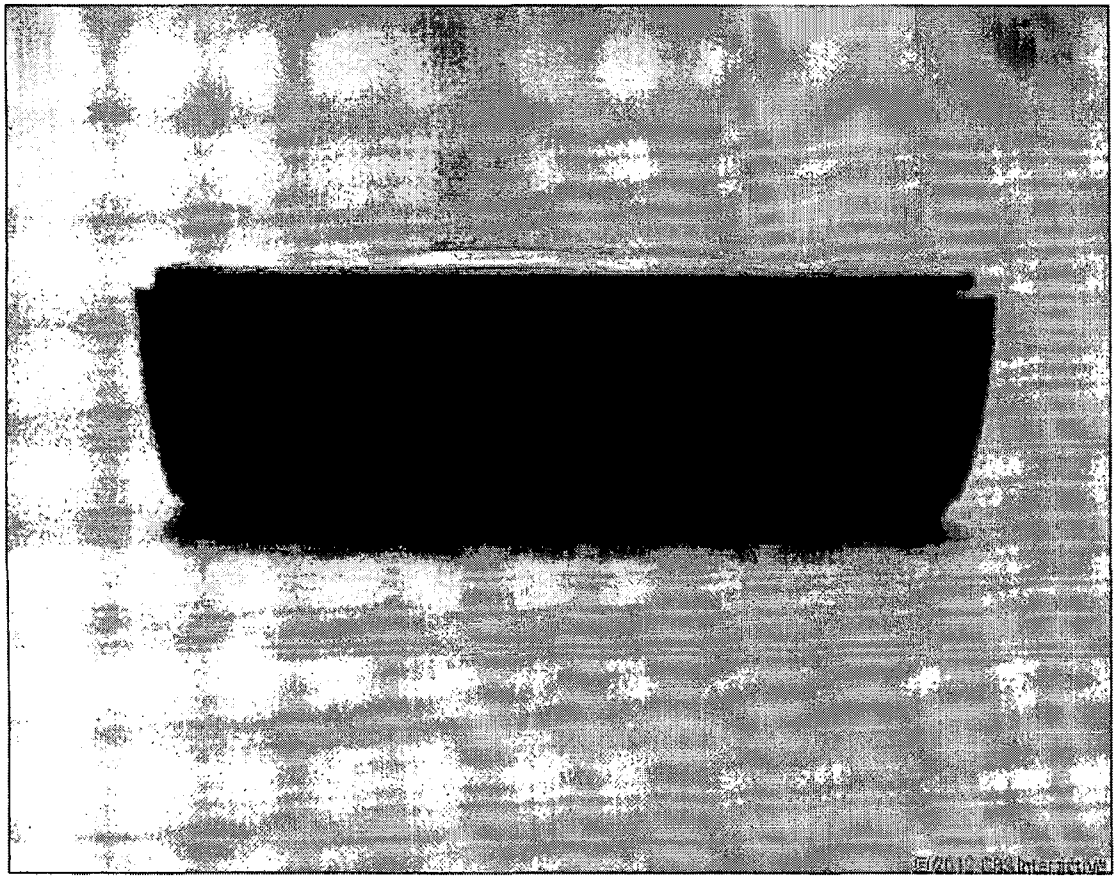





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Design

A rather nondescript black box, the small Samsung AllShare Cast Hub sports smoothly curved edges with no visible markings or controls. Weighing a mere 1.6 ounces, the AllShare's light weight could conceivably qualify it as a mobile product. A full-size HDMI port and connection to an AC power adapter around the back of the device though say otherwise. Also placed on back of the AllShare Cast is a tiny reset button and is the device's only physical control.

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On back is a lone HDMI port, power connecter, and reset button.

Sarah Tew/CNET

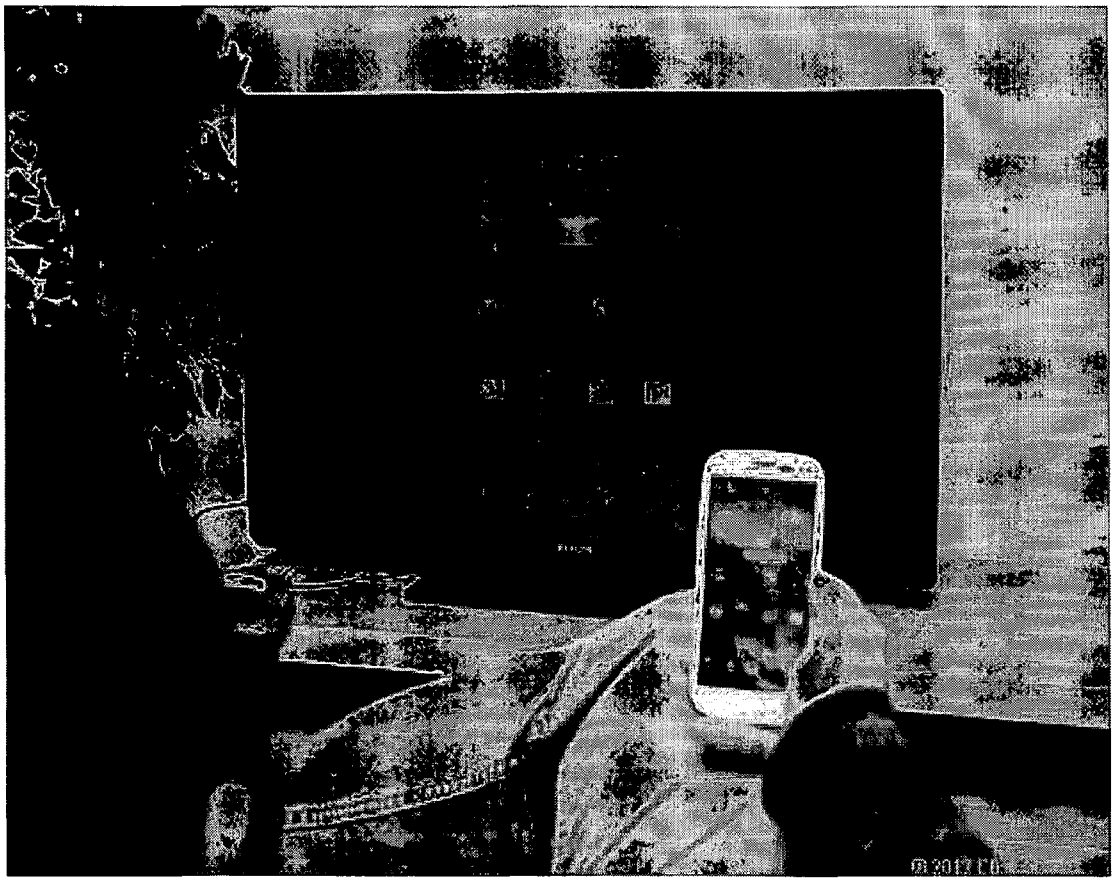
Features and performance

Essentially the AllShare Cast Hub is a very simple accessory made to accomplish one primary task. Using Wi-Fi direct technology, it mirrors what is displayed on the Samsung handset's screen to a compatible HDTV. The AllShare also does this in real time and without stringing wires between phone and display. Keep in mind that the product is only compatible with Samsung's **Galaxy S III**, **Galaxy Note 2**, and **Galaxy Note 10.1** devices.

Physically setting up the AllShare was a snap. First I connected the supplied AC adapter and HDMI cable to the back of the Hub. Next I plugged the Hub's power source to an AC outlet and then attached its HDMI cable to a free port on my test TV, the 55-inch Philips PFL5907.

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Mirror your Galaxy S3 interface on big HDTV screens.

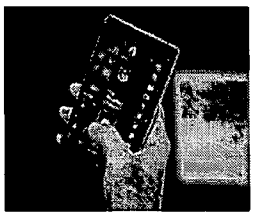
Sarah Tew/CNET

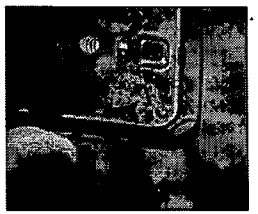
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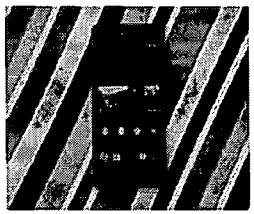
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Samsung Galaxy S5
Starting at: **$99.00**

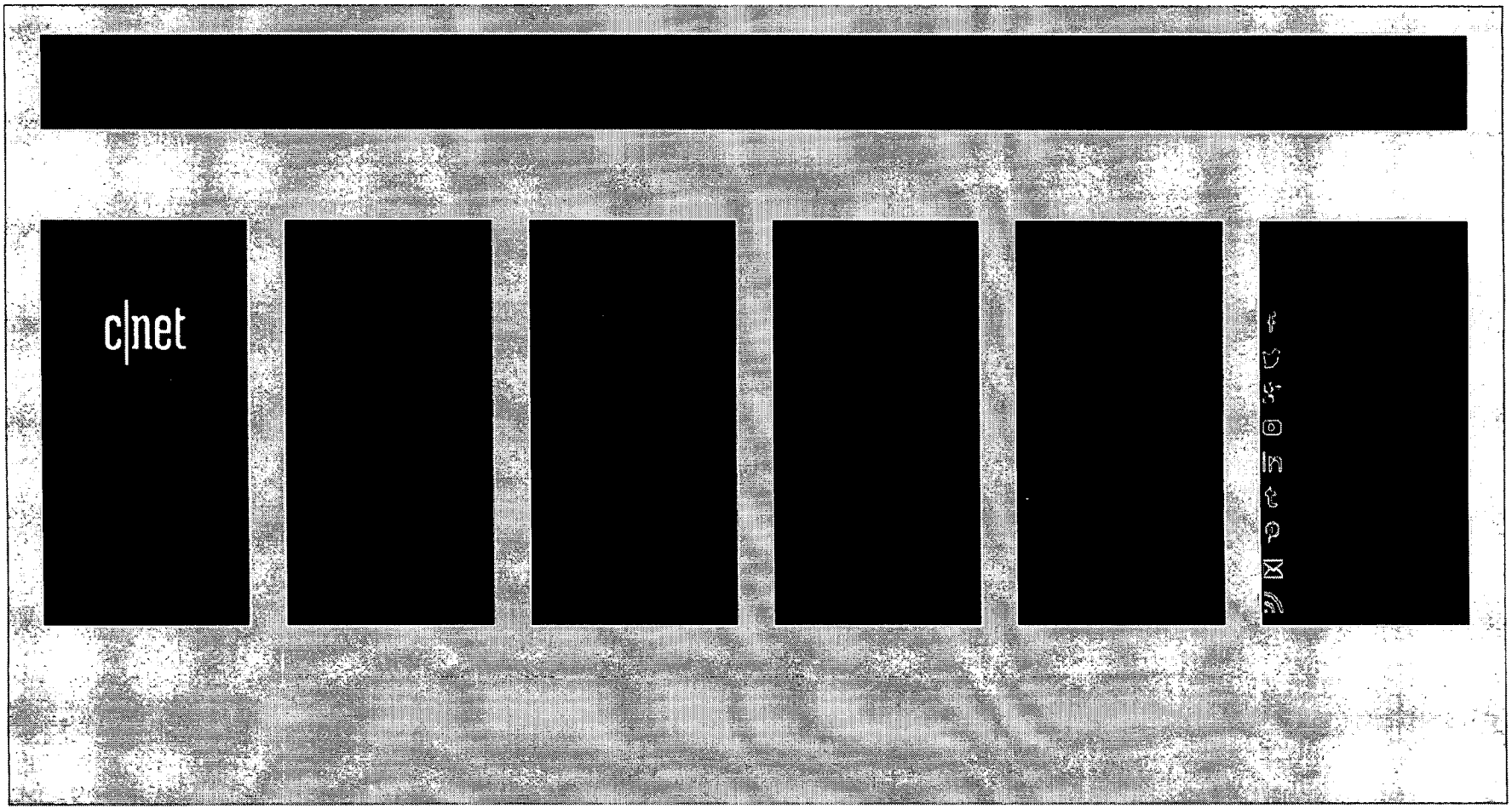
Nokia Lumia Icon (Verizon Wireless)
Starting at: **$149.99**

Samsung Galaxy S5 Active
Starting at: **$199.99**

Sony Xperia Z2
Starting at: **$548.14**

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Samsung AllShare Cast Hub review:

Meet Samsung's version of Apple AirPlay

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After I switched the TV set to the correct input, I was greeted by a slick setup animation that cycled through various steps to get the AllShare Cast Hub up and running. Unfortunately, while the graphics were stylish and clearly indicated what I had to do visually, their accompanying written captions were anything but straightforward.

For example I easily understood that I had to navigate to my Samsung Galaxy S III handset's settings menu to enable the AllShare wireless function. I found onscreen directions to "press the reset key of the dongle when the red indicator starts blinking" completely mystifying. No reason for doing this action was given aside from that it was, "To connect new AllShare device."

It wasn't until I consulted the included printed documents that I learned I had to press the reset button for almost 30 seconds until the AllShare Cast's indicator light shifted from a blinking red to a steady blue. It's then and only then that I could successfully link my phone to the Hub.

WHERE TO BUY / SEE ALL PRICES

Samsung AllShare Cast Hub
Part Number: EAD-T10JDEGSTA /

MSRP: $99.99
LOW PRICE: $54.99

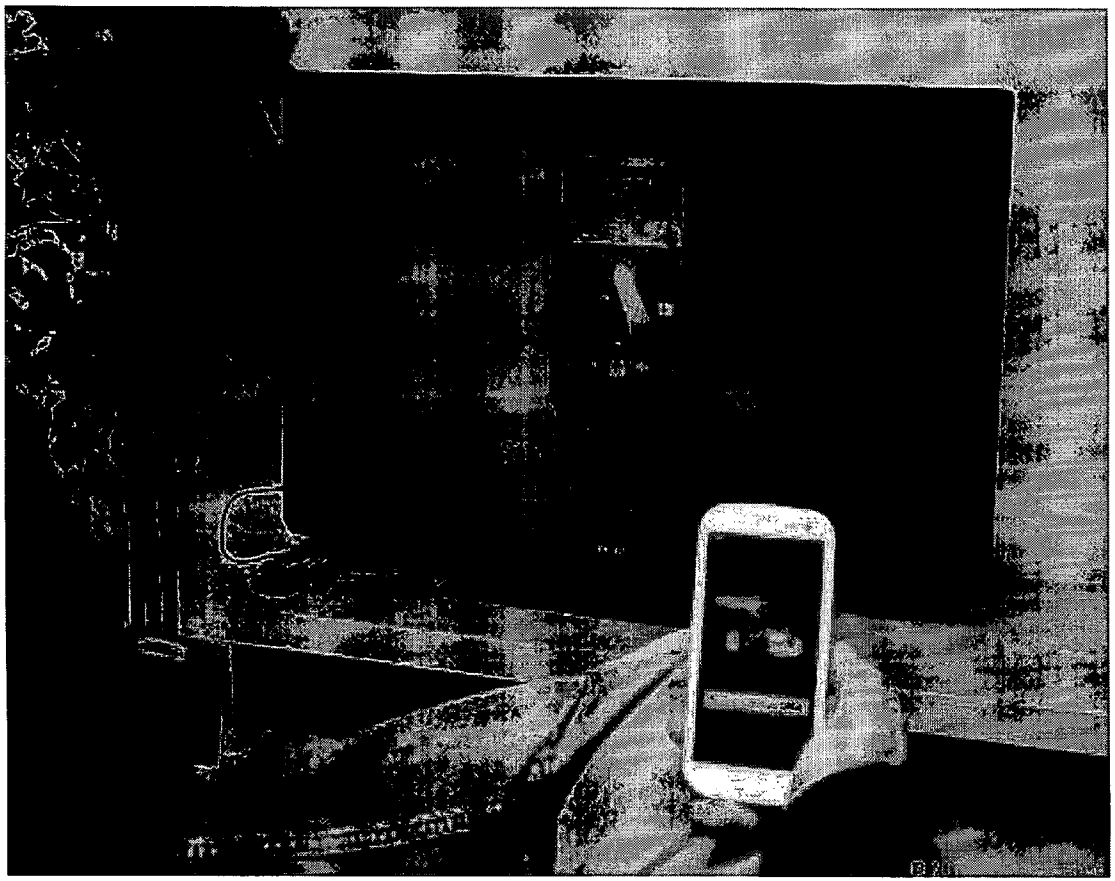
Amazon.com $55.48 SEE IT

Best Buy $56.99 SEE IT

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The Hub displays fancy setup instructions on your HDTV.

Sarah Tew/CNET

Once connected properly, I saw everything the Galaxy S III's screen displayed replicated on my HDTV. This included **Android** menus, apps, and even games. I successfully listened to music and HD video streamed to my TV screen via my test phone. It was also mildly entertaining to play a few rounds of Angry Birds across a 55-inch canvas. One potential issue, though, is that the AllShare Cast Hub lacks discrete audio ports of any kind, so connecting the gadget to older home theater receivers (non HDMI) isn't possible.

Video and audio quality was clean overall with clear high-resolution images and no hiccups. I did experience lag between phone screen and TV, though, especially within the Wi-Fi-saturated CNET offices in New York. In fact, a few times I lost the connection between phone and TV completely, forcing me to reconnect. Moving to a location with less Wi-Fi interference, however, cleared up the problem.

$54.99 SEE IT

Walmart.com

$56.61 SEE IT

See all prices »

QUICK SPECIFICATIONS / SEE ALL

CE Product Type	Wireless media hub

ABOUT THE AUTHOR /



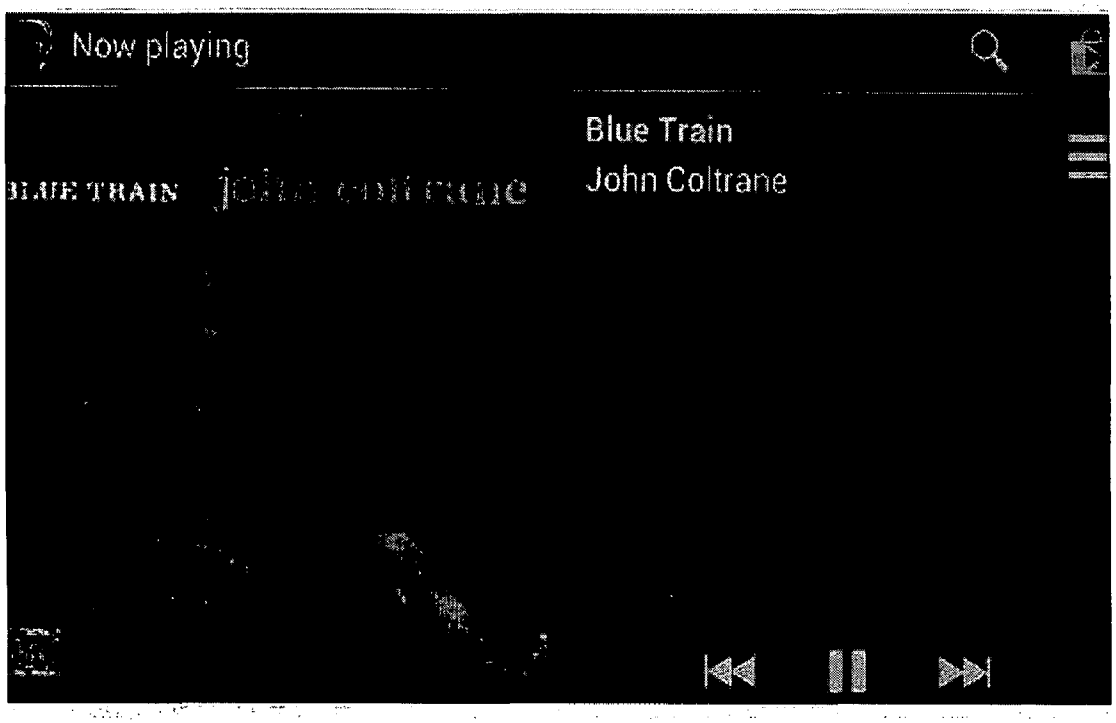
Brian Bennett

Brian Bennett is senior editor for appliances at CNET and reviews a wide range of household and smart-home products. These include everything from microwave ovens, blenders, ranges and coffee makers to personal weather stations. An NYC native, Brian now resides in bucolic Louisville, Kentucky where he dreams of someday owning the sparkling house of the future.

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Enjoy phone-based music streamed to the living room sans wires.

Sarah Tew/CNET

Conclusion

While the Samsung AllShare Cast Hub performs its core function of porting smartphone content to HDTVs adequately, its $99.99 price isn't cheap. That premium is especially daunting considering the gadget only works with a handful of recent Samsung products. Also, if all you want to do is stream basic audio to living room components, the $39.99 **Logitech Wireless Speaker Adapter** tackles the job for a lot less. There's also the $49.99 **BlackBerry Music Gateway** that's built for RIM handsets but does work with any phone with using Bluetooth stereo audio. HTC also sells its $89.99 Media Link HD device that performs many of the same tricks but only for HTC handsets. Of course for owners of shiny new Galaxy S IIIs who want to enjoy both their phone's audio and video on the big screen, the AllShare Cast Hub is the only game in town.

WHAT YOU'LL PAY

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MSRP:
$99.99

LOW PRICE:
$54.99

AVERAGE PRICE:
$56.02

Amazon.com $55.48	Best Buy $56.99
eBay $54.99	Walmart.com $56.61

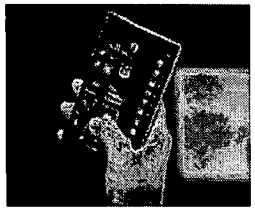
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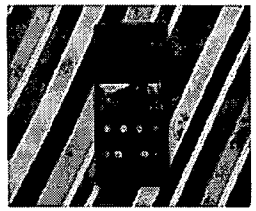
Samsung Galaxy S5
Starting at: **$99.00**
★★★★½



Nokia Lumia Icon (Verizon Wireless)
Starting at: **$149.99**
★★★★☆



Samsung Galaxy S5 Active
Starting at: **$199.99**
★★★★½



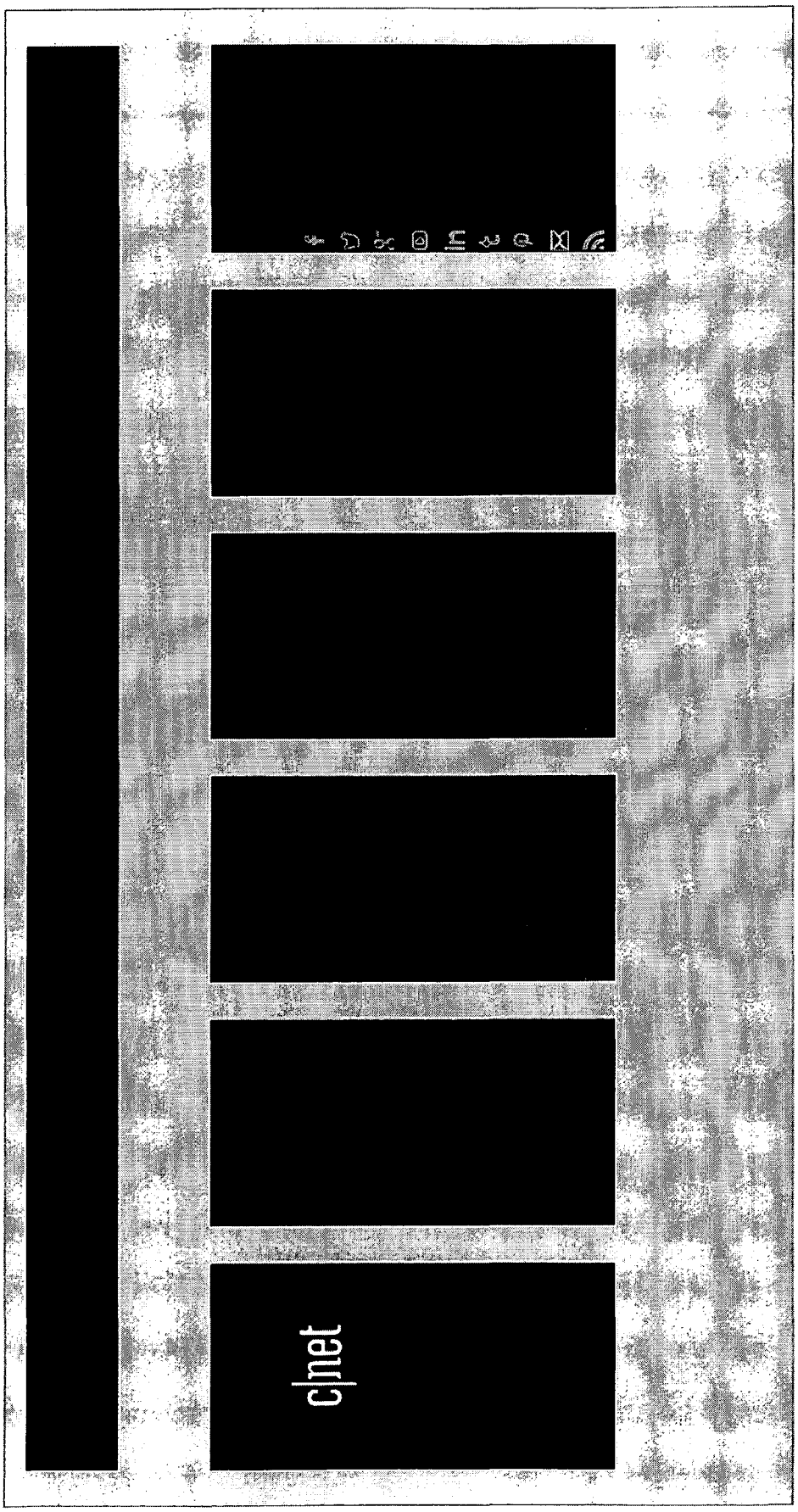
Sony Xperia Z2
Starting at: **$548.14**
★★★★½

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Samsung AllShare Cast Hub review - Page 2 - CNET

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)

Applicant's or agent's file reference 6583-544-PCT	Date of mailing *(day/month/year)* 25 AUG 2014 **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:
   ☐ 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 6583-544-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.

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

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.

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.

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

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.

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

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:

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

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:

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

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)*

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

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]).

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

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 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.

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

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 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 Telephone No. PCT Helpdesk: 571-272-4300 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.

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

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:

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

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.

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.

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

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:

- [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	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)

Date of mailing *(day/month/year)* 03 SEP 2014	
Applicant's or agent's file reference 6583-565-PCT	**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.

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

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:

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

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.

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

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US14/34125

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - H04N 7/18 (2014.01)
CPC - G06F 3/017
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC(8): H04N 7/18, G06F 3/048, G06F 3/0487 (2014.01)
CPC: G06F 3/017, G06F 3/0425, G01C 21/3664

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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

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

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

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

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

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

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

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

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

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

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

Applicant Flextronics AP, LLC

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

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

2. **FURTHER ACTION**

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

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

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

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

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

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34125

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

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

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

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

   ☐ on paper

   ☐ in electronic form

   b. (time)

   ☐ in the international application as filed

   ☐ together with the international application in electronic form

   ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

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

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34125

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

1. Statement

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

2. Citations and explanations:

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

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

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

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

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

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

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

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34125

Box No. VI Certain documents cited

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

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

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

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

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

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34125

Supplemental Box

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

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

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

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

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

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

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

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

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

PCT

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

(PCT Rule 44.1)

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

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

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

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

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

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

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

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

4. **Reminders**

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

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

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

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

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

Form PCT/ISA/220 (July 2014)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

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

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

This international search report consists of a total of 3 sheets.

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

1. **Basis of the report**

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

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

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

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

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

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

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

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

☐ the text is approved as submitted by the applicant.

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

CENTRAL NETWORK FOR AUTOMATED CONTROL OF VEHICULAR TRAFFIC

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

☐ the text is approved as submitted by the applicant.

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

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

a. the figure of the **drawings** to be published with the abstract is Figure No. 20A

☐ as suggested by the applicant.

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

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

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

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

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US14/34254

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

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

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US14/34254

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - G08G 1/0968; G01C 21/20; G05D 1/02 (2014.01)
CPC - G08G 1/0125, 1/164; G05D 1/0088
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC(8) Classification(s): G06F 3/0484; G01C 21/26, 21/20; G08G 1/0968, 1/133, 1/09; G05D 1/02 (2014.01)
CPC Classification(s): G08G 1/0125, 1/164; G05D 1/0088

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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

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

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

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

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

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

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

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

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

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

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

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

Applicant FLEXTRONICS AP, LLC

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

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

2. **FURTHER ACTION**

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

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

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

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

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

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34254

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:
   - ☒ the international application in the language in which it was filed.
   - ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:
   a. (means)
      - ☐ on paper
      - ☐ in electronic form
   b. (time)
      - ☐ in the international application as filed
      - ☐ together with the international application in electronic form
      - ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34254

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

1. Statement

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

2. Citations and explanations:

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

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

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

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

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

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

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

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

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

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

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

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34254

Box No. VII Certain defects in the international application

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

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

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

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34254

Box No. VIII Certain observations on the international application

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

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

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

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US14/34254

Supplemental Box

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

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

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

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

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

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

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

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

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

111285 7590 11/19/2014

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

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
11/19/2014	ELECTRONIC

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

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

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

flexpatents@sheridanross.com
edocket@sheridanross.com

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

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

Period for Reply

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

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

Status

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

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

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

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

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

Disposition of Claims*

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

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

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

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

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

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

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

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

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

4) ☐ Other: _____.

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

DETAILED ACTION

Claim Rejections - 35 USC § 102

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

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

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

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

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

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

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

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

Claim Rejections - 35 USC § 103

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

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

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

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

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

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

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

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

Conclusion

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

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

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

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

ALEX C. DUNN
Examiner, Art Unit 3663

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

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

U.S. PATENT DOCUMENTS

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

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

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

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

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

111285 7590 11/18/2014

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

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
11/18/2014	ELECTRONIC

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

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

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

flexpatents@sheridanross.com
edocket@sheridanross.com

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

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

Period for Reply

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

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

Status

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

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

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

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

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

Disposition of Claims*

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

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

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

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

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

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

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

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

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

4) ☐ Other: _____.

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

DETAILED ACTION

Claim Rejections - 35 USC § 102

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

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

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

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

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

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

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

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

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

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

Conclusion

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

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

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

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

ALEX C. DUNN
Examiner, Art Unit 3663

/THOMAS TARCZA/
Supervisory Patent Examiner, Art Unit 3663

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

U.S. PATENT DOCUMENTS

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

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N	WO 2012102879 A1	08-2012	World Intellect	KIRSCH D M	
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

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

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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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

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

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.
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Status

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

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

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

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

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

Disposition of Claims*

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

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

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

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

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

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

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

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

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

4) ☐ Other: _____.

DETAILED ACTION

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

Priority

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

Claim Objections

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

Claim Rejections - 35 USC § 101

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

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

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

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

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

Claim Rejections - 35 USC § 112

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

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

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

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

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

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

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

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

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

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

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

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

Applicant may:

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

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

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

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

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

The above cited rejections are merely exemplary.

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

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

Claim Rejections - 35 USC § 102

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

a registration module operable to:

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

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

a traffic control module operable to:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Conclusion

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

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

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

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

/MAHMOUD ISMAIL/
Examiner, Art Unit 3662

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

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

U.S. PATENT DOCUMENTS

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

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
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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.
14/253,506	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

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
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	Q					
	R					
	S					
	T					

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	X	

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

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

U.S. PATENT DOCUMENTS

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

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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.: 7690
Serial No.: 14/253,204	)	Examiner: DUNN, ALEX C
Filed: April 15, 2014	)	INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-561	)	*Electronically Submitted*
Entitled: "Customization of Vehicle Controls and Settings Based on User Profile Data"	)	

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

Dear Commissioner:

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

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

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

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

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

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

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

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

- Serial No. 14/253,240 filed 04/15/2014 (Attorney's Ref. No. 6583-547)
- Serial No. 14/253,220 filed 04/15/2014 (Attorney's Ref. No. 6583-548)
- Serial No. 14/253,315 filed 04/15/2014 (Attorney's Ref. No. 6583-549)
- Serial No. 14/253,706 filed 04/15/2014 (Attorney's Ref. No. 6583-550)
- Serial No. 14/252,868 filed 04/15/2014 (Attorney's Ref. No. 6583-551)
- Serial No. 14/253,745 filed 04/15/2014 (Attorney's Ref. No. 6583-553)
- Serial No. 14/253,752 filed 04/15/2014 (Attorney's Ref. No. 6583-554)
- Serial No. 14/253,729 filed 04/15/2014 (Attorney's Ref. No. 6583-555)
- Serial No. 14/252,934 filed 04/15/2014 (Attorney's Ref. No. 6583-556)
- Serial No. 14/253,243 filed 04/15/2014 (Attorney's Ref. No. 6583-557)
- Serial No. 14/252,978 filed 04/15/2014 (Attorney's Ref. No. 6583-558)
- Serial No. 14/253,023 filed 04/15/2014 (Attorney's Ref. No. 6583-559)
- Serial No. 14/252,871 filed 04/15/2014 (Attorney's Ref. No. 6583-560)
- Serial No. 14/253,099 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. 14/253,371 filed 04/15/2014 (Attorney's Ref. No. 6583-588)
- Serial No. 14/253,393 filed 04/15/2014 (Attorney's Ref. No. 6583-589)
- Serial No. 14/253,233 filed 04/15/2014 (Attorney's Ref. No. 6583-590)
- Serial No. 14/253,376 filed 04/15/2014 (Attorney's Ref. No. 6583-591)
- Serial No. 14/253,396 filed 04/15/2014 (Attorney's Ref. No. 6583-594)
- Serial No. 14/253,416 filed 04/15/2014 (Attorney's Ref. No. 6583-595)
- Serial No. 14/253,435 filed 04/15/2014 (Attorney's Ref. No. 6583-596)
- Serial No. 14/253,446 filed 04/15/2014 (Attorney's Ref. No. 6583-597)

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

☐ Other:_____

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

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

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

FEES

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

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

☐ The undersigned certifies that:

☐ Each item of information contained in the Information Disclosure Statement submitted herewith was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1).

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

OR

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

Respectfully submitted,

SHERIDAN ROSS P.C.

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

Date: November 25, 2014

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,204	04/15/2014	Christopher P. Ricci	6583-561	7690

111285 7590 01/26/2015

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

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
01/26/2015	ELECTRONIC

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

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

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

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,204	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) Status Yes

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

Period for Reply

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

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

Status

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

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

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

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

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

Disposition of Claims*

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

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

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-7,9,11-17,19 and 20* is/are rejected.

8)☒ Claim(s) *8,10 and 18* is/are objected to.

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

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

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 – 20 are rejected under 35 U.S.C. 102(a)(2) as being anticipated by Lovitt et al., (20140028542).

5. (Claims 1 - 6, 11 - 15, 19 and 20): Lovitt discloses a method and system, comprising: determining a location inside a vehicle associated with a user (fig. 4; [0005 - 0006]); determining at least one vehicle control associated with the location inside the vehicle ([0010]); referring to a user profile memory associated with the user for vehicle control settings (abstract; figs. 1 and 5); and determining, based at least partially on the

vehicle control settings, to adjust the at least one vehicle control associated with the location inside the vehicle ([0019 - 0021]; [0027 - 0029]).

6. (Claims 7 and 16): Lovitt discloses a method and system, wherein determining the presence of the user inside the vehicle further comprises: detecting a person via at least one image sensor associated with the vehicle (fig. 1); identifying facial features associated with the person detected via the at least one image sensor ([0005 - 0007]); and determining whether the identified facial features associated with the person match user characteristics stored in a memory ([0025]).

7. (Claims 9 and 17): Lovitt discloses a method and system further comprising: determining that the user made a change to the adjusted at least one vehicle control ([0030]); and storing the change made to the adjusted at least one vehicle control in the user profile memory ([0027 - 0028]).

Allowable Subject Matter

8. Claims 8, 10 and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

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

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

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

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

ALEX C. DUNN
Examiner, Art Unit 3663

/THOMAS TARCZA/

Supervisory Patent Examiner, Art Unit 3663

Notice of References Cited	Application/Control No. 14/253,204	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2002/0077985 A1	06-2002	Kobata et al.	705/51
*	B	US-2002/0126876 A1	09-2002	Paul et al.	382/104
*	C	US-2004/0225557 A1	11-2004	Phelan et al.	705/011
*	D	US-2009/0284359 A1	11-2009	Huang et al.	340/426.1
*	E	US-2010/0106418 A1	04-2010	Kindo et al.	701/300
*	F	US-2010/0304640 A1	12-2010	Sofman et al.	446/456
*	G	US-2011/0040438 A1	02-2011	Kluge et al.	701/29
*	H	US-2011/0309926 A1	12-2011	Eikelenberg et al.	340/439
*	I	US-2012/0059789 A1	03-2012	Sakai et al.	706/52
*	J	US-2014/0028542 A1	01-2014	Lovitt et al.	345/156
	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.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14253204	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	49	1/17/2015	Alex C. Dunn

SEARCH NOTES		
Search Notes	Date	Examiner
EAST	1/17/2015	Alex C. Dunn

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	Group Art Unit: 3663
Christopher P. Ricci	Confirmation No.: 7690
Serial No.: 14/253,204	Examiner: DUNN, ALEX C
Filed: April 15, 2014	INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 6583-561	*Electronically Submitted*
Entitled: "Customization of Vehicle Controls and Settings Based on User Profile Data"	

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)

APPROVED FOR ENTRY. 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. 14/253,099 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. 14/253,371 filed 04/15/2014 (Attorney's Ref. No. 6583-588)
- Serial No. 14/253,393 filed 04/15/2014 (Attorney's Ref. No. 6583-589)
- Serial No. 14/253,233 filed 04/15/2014 (Attorney's Ref. No. 6583-590)
- Serial No. 14/253,376 filed 04/15/2014 (Attorney's Ref. No. 6583-591)
- Serial No. 14/253,396 filed 04/15/2014 (Attorney's Ref. No. 6583-594)
- Serial No. 14/253,416 filed 04/15/2014 (Attorney's Ref. No. 6583-595)
- Serial No. 14/253,435 filed 04/15/2014 (Attorney's Ref. No. 6583-596)
- Serial No. 14/253,446 filed 04/15/2014 (Attorney's Ref. No. 6583-597)

APPEARANCES 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)
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- 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

Page 532 of 1087 REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.D./ Ford Ex. 1002

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.
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EFS-Web 2.2.7

APPLICANT'S REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.D./

Ford Ex. 1002

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.

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Date: November 25, 2014

/Alex Dunn/ (01/17/2015)

APPLICANT'S REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.D./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/253,204
				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
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Examiner Initials*	Cite No.[1]	Document Number Number-kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	4754255	06/28/1988	Sanders et al.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/253,204
				Filing Date	April 15, 2014
(Use as many sheets as necessary)				First Named Inventor	Christopher P. Ricci
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Examiner Signature	/Alex Dunn/ (01/17/2015)	Date Considered	

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(Use as many sheets as necessary)				First Named Inventor	Christopher P. Ricci
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				Examiner Name	DUNN, ALEX C
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	200	WO 2012/102879	08/02/2012	HONDA MOTOR CO., LTD.		

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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	210	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US2014/034092, mailed Aug. 22, 2014 (Attorney's Ref. No. 6583-543-PCT) 8 pages
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APPLICANT'S REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.D./

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	14/253,204
				Filing Date	April 15, 2014
				First Named Inventor	Christopher P. Ricci
				Art Unit	3663
				Examiner Name	DUNN, ALEX C
Sheet	8	of	8	Attorney Docket Number	6583-561

	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
	217	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US2014/034103, mailed Sep. 03, 2014 (Attorney's Ref. No. 6583-565-PCT) 7 pages
	218	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US14/34114, mailed Sep. 15, 2014 (Attorney's Ref. No. 6583-567-PCT) 9 pages
	219	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US14/34125, mailed Sep. 15, 2014 (Attorney's Ref. No. 6583-569-PCT) 8 pages
	220	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US14/34254, mailed Sep. 15, 2014 (Attorney's Ref. No. 6583-574-PCT) 10 pages
	221	Official Action for U.S. Patent Application No. 14/253,729, mailed Nov. 19, 2014 (Attorney's Ref. No. 6583-555) 8 pages
	222	Official Action for U.S. Patent Application No. 14,253,405, mailed Nov. 18, 2014 (Attorney's Ref. No. 6583-567) 6 pages
	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/ (01/17/2015)	Date Considered	

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

EXAMINER: 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	9	(US-20090284359-$ or US-20140028542-$ or US-20020126876-$ or US-20120059789-$ or US-20100106418-$ or US-20040225557-$ or US-20100304640-$ or US-20020077985-$ or US-20110309926-$).did.	US-PGPUB	OR	ON	2015/01/17 07:38
L2	4	1 AND (location ADJ3 vehicle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/17 07:39
L3	981	(((location OR area) ADJ inside) ADJ2 vehicle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/17 07:47
L4	896	3 AND @ay<"2013"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/17 07:48
L5	219	4 AND (vehicle ADJ control)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/17 07:50
L6	213	5 AND (user OR driver OR passenger)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/17 07:50
L7	73	6 AND "701".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/17 07:51
L8	0	7 AND (user ADJ profile)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/17 07:51
L9	13	7 AND profile	US-PGPUB;	OR	ON	2015/01/17

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			07:51

EAST Search History (Interference)

< This search history is empty>

1/ 17/ 2015 10:46:01 AM
C:\ Users\ adunn\ Documents\ EAST\ Workspaces\ 14253204.wsp

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14253204	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		01/17/2015							
	1		✓							
	2		✓							
	3		✓							
	4		✓							
	5		✓							
	6		✓							
	7		✓							
	8		O							
	9		✓							
	10		O							
	11		✓							
	12		✓							
	13		✓							
	14		✓							
	15		✓							
	16		✓							
	17		✓							
	18		O							
	19		✓							
	20		✓							

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BIB DATA SHEET

CONFIRMATION NO. 7690

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
14/253,204	04/15/2014	701	3663	6583-561

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 ****

05/01/2014

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	41	20	3

ADDRESS

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

TITLE

CUSTOMIZATION OF VEHICLE CONTROLS AND SETTINGS BASED ON USER PROFILE DATA

FILING FEE RECEIVED		
2140	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

To: flexpatents@sheridanross.com,edocket@sheridanross.com,
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Cc: PAIR_eOfficeAction@uspto.gov
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Jan 26, 2015 05:19:23 AM

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Application	Document	Mailroom Date	Attorney Docket No.
14253204	CTNF	01/26/2015	6583-561
	892	01/26/2015	6583-561
	1449	01/26/2015	6583-561
	1449	01/26/2015	6583-561

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PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	Group Art Unit: 3663
Christopher P. RICCI	Examiner: DUNN, ALEX C.
Application No.: 14/253,204	Confirmation No.: 7690
Filed: April 15, 2015	
Atty. File No.: 6583-561	

For: "CUSTOMIZATION OF VEHICLE CONTROLS AND SETTINGS BASED ON USER PROFILE DATA"

AMENDMENT AND RESPONSE

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

Commissioner:

Applicant submits this Amendment and Response to address the non-final Office Action having a mailing date of January 26, 2015. Submitted herewith is payment in the amount of $420.00 for one independent claim in excess of three. Although Applicant believes that no additional fees are due in connection with the filing of this Amendment and Response, please charge any fees deemed necessary to Deposit Account No. 19-1970.

Please amend the above-identified patent application as follows:

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

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

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

Amendments to the Specification:

Please replace paragraph [0462] with the following amended paragraph:

[0462] This application is also related to PCT Patent Application Nos. PCT/US14/34092, filed on April 15, 2014, entitled, "Building Profiles Associated with Vehicle Users" (Attorney Docket No. 6583-543-PCT); PCT/US14/34099, filed on April 15, 2014, entitled "Access and Portability of User Profiles Stored as Templates" (Attorney Docket No. 6583-544-PCT); PCT/US14/34087, filed on April 15, 2014, entitled "User Interface and Virtual Personality Presentation Based on User Profile" (Attorney Docket No. 6583-547-PCT); PCT/US14/34088, filed on April 15, 2014, entitled "Creating Targeted Advertising Profiles Based on User Behavior" (Attorney Docket No. 6583-549-PCT); PCT/US14/34232, filed on April 15, 2014, entitled "Behavior Modification via Altered Map Routes Based on User Profile Information" (Attorney Docket No. 6583-550-PCT); PCT/US14/34098, filed on April 15, 2014, entitled "Vehicle Location-Based Home Automation Triggers" (Attorney Docket No. 6583-556-PCT); PCT/US14/34108, filed on April 15, 2014, entitled "Vehicle Initiated Communications with Third Parties via Virtual Personalities" (Attorney Docket No. 6583-559-PCT); PCT/US14/34101, filed on April 15, 2014, entitled "Vehicle Intruder Alert Detection and Indication" (Attorney Docket No. 6583-562-PCT); PCT/US14/34103, filed on April 15, 2014, entitled "Driver Facts Behavior Information Storage System" (Attorney Docket No. 6583-565-PCT); PCT/US14/34114, filed on April 15, 2014, entitled "Synchronization Between Vehicle and User Device Calendar" (Attorney Docket No. 6583-567-PCT); PCT/US14/34125, filed on April 15, 2014, entitled "User Gesture Control of Vehicle Features" (Attorney Docket No. 6583-569-PCT); PCT/US14/34254, filed on April 15, 2014, entitled "Central Network for the Automated Control of Vehicular Traffic" (Attorney Docket No. 6583-574-PCT); and PCT/US14/34194, filed on April 15, 2014, entitled "Vehicle-Based Multimode Discovery" (Attorney Docket No. 6583-585-PCT). The entire disclosures of the applications listed above are hereby incorporated by reference, in their entirety, for all that they teach and for all purposes.

Amendments to the Claims:

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

Listing of Claims:

1. (Canceled)

2. (Canceled)

3. (Canceled)

4. (Currently Amended) The method of ~~claim 1~~claim 8, wherein prior to determining the location inside the vehicle associated with the user the method further comprises:

storing, in the user profile memory, information corresponding to locations inside the vehicle occupied by the user;

collecting vehicle control setting data associated with the user, wherein the vehicle control setting data includes at least one vehicle control setting made by the user in at least one of the locations inside the vehicle; and

storing the vehicle control setting data in the user profile memory.

5. (Currently Amended) The method of ~~claim 1~~claim 8, wherein the at least one vehicle control includes one or more vehicle features such as a seat system, a steering control, a foot pedal control, a mirror position, and a display device.

6. (Original) The method of claim 5, wherein the vehicle control settings include at least one of a position, a sensitivity, an angle, and a movement, associated with the one or more vehicle features.

7. (Currently Amended) The method of ~~claim 3~~claim 8, wherein determining the presence of the user inside the vehicle further comprises:

detecting a person via at least one image sensor associated with the vehicle;

identifying facial features associated with the person detected via the at least one image sensor; and

determining whether the identified facial features associated with the person match user characteristics stored in a memory.

8. (Currently Amended) A method, comprising:

determining a location inside a vehicle associated with a user;

determining at least one vehicle control associated with the location inside the vehicle;

determining a presence of the user inside the vehicle, wherein determining the presence of the user comprises detecting a device associated with the user in an area of the vehicle;

referring to a user profile memory associated with the user for vehicle control settings;

determining, based at least partially on the vehicle control settings, to adjust the at least one vehicle control associated with the location inside the vehicle; and

providing an adjustment output to a vehicle control system, wherein the adjustment output is provided based at least partially on determining the user is present in the location inside the vehicle, wherein the vehicle control system is adapted to control the at least one vehicle control associated with the location inside the vehicle~~The method of claim 3, wherein determining the presence of the user inside the vehicle further comprises:~~

~~detecting a device associated with the user in an area of the vehicle~~.

9. (Currently Amended) The method of ~~claim 2~~claim 8, further comprising:

determining that the user made a change to the adjusted at least one vehicle control; and

storing the change made to the adjusted at least one vehicle control in the user profile memory.

10. (Currently Amended) A method, comprising:

determining a location inside a vehicle associated with a user;

determining at least one vehicle control associated with the location inside the vehicle;

referring to a user profile memory associated with the user for vehicle control settings;

determining, based at least partially on the vehicle control settings, to adjust the at least one vehicle control associated with the location inside the vehicle; and

providing an adjustment output to a vehicle control system, wherein the vehicle control system is adapted to control the at least one vehicle control associated with the location inside the vehicle~~The method of claim 2~~, wherein the at least one vehicle control is adjusted via the adjustment output to match the vehicle control settings in the user profile memory.

11. (Canceled)

12. (Canceled)

13. (Currently Amended) The non-transitory computer readable medium of ~~claim 12~~ claim 18, wherein prior to providing the adjustment output, the method further comprises:

determining a presence of the user inside the vehicle, wherein the adjustment output is provided based at least partially on determining the user is present in the location of the vehicle.

14. (Currently Amended) The non-transitory computer readable medium of ~~claim 11~~ claim 18, wherein prior to determining the location inside the vehicle associated with the user the method further comprises:

storing, in the user profile memory, information corresponding to locations inside the vehicle occupied by the user;

collecting vehicle control setting data associated with the user, wherein the vehicle control setting data includes at least one vehicle control setting made by the user in at least one of the locations inside the vehicle; and

storing the vehicle control setting data in the user profile memory.

15. (Currently Amended) The non-transitory computer readable medium of ~~claim 11~~ claim 18, wherein the at least one vehicle control includes one or more vehicle features such as a seat system, a steering control, a foot pedal control, a mirror position, and a display device, and wherein the vehicle control settings include at least one of a position, a sensitivity, an angle, and a movement, associated with the one or more vehicle features.

16. (Original) The non-transitory computer readable medium of claim 13, wherein determining the presence of the user inside the vehicle further comprises:

detecting a person via at least one image sensor associated with the vehicle;

identifying facial features associated with the person detected via the at least one image sensor; and

determining whether the identified facial features associated with the person match user characteristics stored in a memory.

17. (Currently Amended) The non-transitory computer readable medium of ~~claim 12~~claim 18, wherein the method further comprises:

determining that the user made a change to the adjusted at least one vehicle control; and

storing the change made to the adjusted at least one vehicle control in the user profile memory.

18. (Currently Amended) A non-transitory computer readable medium having instructions stored thereon that, when executed by a processor, perform a method comprising:

determining a location inside a vehicle associated with a user;

determining at least one vehicle control associated with the location inside the vehicle;

referring to a user profile memory associated with the user for vehicle control settings;

determining, based at least partially on the vehicle control settings, to adjust the at least one vehicle control associated with the location inside the vehicle; and

providing an adjustment output to a vehicle control system, wherein the vehicle control system is adapted to control the at least one vehicle control associated with the location inside the vehicle~~The non-transitory computer readable medium of claim 12~~, wherein the at least one vehicle control is adjusted via the adjustment output to match the vehicle control settings in the user profile memory.

19. (Currently Amended) A vehicle control system, comprising:

a profile identification module contained in a memory and executed by a processor of the vehicle control system, the profile identification module configured to determine a location inside a vehicle associated with a user, determine at least one vehicle control associated with the

location inside the vehicle, refer to a user profile memory associated with the user for vehicle control settings, and determine, based at least partially on the vehicle control settings, to adjust the at least one vehicle control associated with the location inside the vehicle, provide an adjustment output to the vehicle control system, wherein the vehicle control system is adapted to control the at least one vehicle control associated with the location inside the vehicle, wherein the at least one vehicle control is adjusted via the adjustment output to match the vehicle control settings in the user profile memory.

20. (Canceled)

21. (New) The vehicle control system of claim 19, wherein prior to providing the adjustment output, the profile identification module is further configured to determine a presence of the user inside the vehicle, wherein the adjustment output is provided based at least partially on determining the user is present in the location of the vehicle.

22. (New) The vehicle control system of claim 19, wherein prior to determining the location inside the vehicle associated with the user the profile identification module is further configured to store, in the user profile memory, information corresponding to locations inside the vehicle occupied by the user, collect vehicle control setting data associated with the user, wherein the vehicle control setting data includes at least one vehicle control setting made by the user in at least one of the locations inside the vehicle, and store the vehicle control setting data in the user profile memory.

23. (New) The vehicle control system of claim 19, wherein the at least one vehicle control includes one or more vehicle features such as a seat system, a steering control, a foot pedal control, a mirror position, and a display device, and wherein the vehicle control settings include at least one of a position, a sensitivity, an angle, and a movement, associated with the one or more vehicle features.

24. (New) The vehicle control system of claim 21, wherein, in determining the presence of the user inside the vehicle, the user the profile identification module is further

configured to detect a person via at least one image sensor associated with the vehicle, identify facial features associated with the person detected via the at least one image sensor, and determine whether the identified facial features associated with the person match user characteristics stored in a memory.

25. (New) The vehicle control system of claim 19, wherein the profile identification module is further configured to determine that the user made a change to the adjusted at least one vehicle control, and store the change made to the adjusted at least one vehicle control in the user profile memory.

26. (New) The vehicle control system of claim 19, wherein the profile identification module is further configured to determine a presence of the user inside the vehicle based at least partially on detecting a device associated with the user in an area of the vehicle, and wherein the adjustment output is provided based at least partially on determining the user is present in the location inside the vehicle.

ARGUMENTS/REMARKS

Applicant submits this Amendment and Response to respond to the Office Action dated January 26, 2015 ("*Office Action*"). Claims 4, 5, 7-10, 13-15, and 17-19 have been amended without intending to abandon or to dedicate to the public any patentable subject matter. 1-3, 11, 12, and 20 have been canceled without intending to abandon or to dedicate to the public any patentable subject matter. Claims 21-26 have been added. Accordingly, claims 4-10, 13-19, and 21-26 are currently pending.

Allowable Subject Matter

Applicant would like to thank the Examiner for indicating that claims 8, 10, and 18 would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claims 8, 10, and 18 have been amended to include all of the limitations of the base claim and any intervening claims and without intending to abandon or to dedicate to the public any patentable subject matter. Applicant respectfully submits that amended claim 19 and new claims 21-26 are also in condition for allowance.

Claim Rejections Under 35 U.S.C. §102

Claims 1-20 have been rejected under 35 U.S.C. §102 as anticipated by U.S. Patent Publication No. 2014/0028542 to Lovitt et al. ("*Lovitt*"). In order for a rejection under 35 U.S.C. § 102 to be proper, each and every claim element must be found in a single prior art reference. *Verdegaal Bros. v. Union Oil Co. of California*, 814 F.2d 628, 631 (Fed. Cir. 1987). *Lovitt*, however, fails to at least teach, suggest, or describe several features disclosed in the currently amended claims.

Applicant respectfully requests reconsideration of this application as amended. To the extent that *Lovitt* fails to at least teach, suggest, or disclose all of the elements recited in the pending independent claims, Applicant submits that the rejections of the independent claims and the dependent claims therefrom should be reconsidered and withdrawn.

The application now appearing to be in form for allowance, early notification of same is respectfully requested. Applicant does not acquiesce to any objection, rejection, or argument not

specifically addressed herein. Rather, Applicant believes the amendments and arguments contained herein overcome all objections, rejections, or arguments.

In the event that a telephone conversation would further prosecution and/or expedite allowance, the Examiner is invited to contact the undersigned.

The Commissioner is hereby authorized to charge to deposit account number 19-1970 any fees under 37 CFR § 1.16 and 1.17 that may be required by this paper and to credit any overpayment to that Account. If any extension of time is required in connection with the filing of this paper and has not been separately requested, such extension is hereby Petitioned.

Respectfully submitted,

SHERIDAN ROSS P.C.

Date: April 27, 2015

By: /Thaine Lennox-Gentle/

Thaine Lennox-Gentle
Reg. No. 65,260
1560 Broadway, Suite 1200
Denver, CO 80202
Telephone: 303-863-9700

Electronic Acknowledgement Receipt

EFS ID:	22176138
Application Number:	14253204
International Application Number:	
Confirmation Number:	7690
Title of Invention:	CUSTOMIZATION OF VEHICLE CONTROLS AND SETTINGS BASED ON USER PROFILE DATA
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	111285
Filer:	Thaine Lennox-Gentle/Kathy Johnston
Filer Authorized By:	Thaine Lennox-Gentle
Attorney Docket Number:	6583-561
Receipt Date:	27-APR-2015
Filing Date:	15-APR-2014
Time Stamp:	14:50:29
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_01_6583-561_V01.pdf	121288 57069018dca5704c65d54796db68efc63d6c1f50	yes	10

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Specification	2	2
	Claims	3	8
	Applicant Arguments/Remarks Made in an Amendment	9	10
Warnings:			
Information:			
	Total Files Size (in bytes):	121288	

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/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 14/253,204	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	04/27/2015	(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))	* 20	Minus	** 20	= 0	X $80 =	0
	Independent (37 CFR 1.16(h))	* 4	Minus	***3	= 1	X $420 =	420
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	**420**

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
/TRINA STEPTOE/

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.

Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 05/05/2015

TSTEPTOE SALE #00000003 Mailroom Dt: 04/27/2015 191970 14253204
01 FC : 1201 420.00 DA

UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

111285 7590 05/11/2015

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

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

DATE MAILED: 05/11/2015

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,204	04/15/2014	Christopher P. Ricci	6583-561	7690

TITLE OF INVENTION: CUSTOMIZATION OF VEHICLE CONTROLS AND SETTINGS BASED ON USER PROFILE DATA

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	08/11/2015

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 05/11/2015
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.
14/253,204	04/15/2014	Christopher P. Ricci	6583-561	7690

TITLE OF INVENTION: CUSTOMIZATION OF VEHICLE CONTROLS AND SETTINGS BASED ON USER PROFILE DATA

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	08/11/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
DUNN, ALEX C	3663	701-049000

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. _____

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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.
14/253,204	04/15/2014	Christopher P. Ricci	6583-561	7690

111285 7590 05/11/2015

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

EXAMINER	
DUNN, ALEX C	

ART UNIT	PAPER NUMBER
3663	

DATE MAILED: 05/11/2015

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

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

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

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

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

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

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 14/253,204	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) Status Yes

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

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

1. ☒ This communication is responsive to *4/27/2015*.
   ☐ 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 *4-10,13-19 and 21-26*. 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
	14253204	RICCI, CHRISTOPHER P.
	Examiner	**Art Unit**
	ALEX C DUNN	3663

CPC					
Symbol				**Type**	**Version**
G07C		9	00158	F	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
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H04W		84	005	A	2013-01-01
G05D		23	1917	I	2013-01-01
G05D		1	0027	I	2013-01-01
G05D		1	0212	I	2013-01-01
B60W		40	09	I	2013-01-01
B60W		50	08	I	2013-01-01
G06F		3	017	I	2013-01-01
H04W		4	046	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
G01C		21	3647	I	2013-01-01
G01C		21	26	I	2013-01-01
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G08G		1	096725	A	2013-01-01
G08G		1	096741	A	2013-01-01
G08G		1	096775	A	2013-01-01
H04N		7	181	A	2013-01-01
H04W		12	06	A	2013-01-01
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G08B		13	19647	I	2013-01-01
G08B		21	06	A	2013-01-01
G08B		29	188	A	2013-01-01
G06F		3	0488	A	2013-01-01

/ALEX C DUNN/ Examiner.Art Unit 3663	5/1/2015	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/THOMAS TARCZA/ Supervisory Patent Examiner.Art Unit 3663	05/01/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	8	25

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14253204	RICCI, CHRISTOPHER P.
	Examiner	**Art Unit**
	ALEX C DUNN	3663

B60R		25	/	1004	I	2013-01-01
G06F		21	/	31	I	2013-01-01
G06F		21	/	32	I	2013-01-01
H04W		4	/	003	I	2013-01-01
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H04L		67	/	10	I	2013-01-01
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B60R		16	/	037	I	2013-01-01
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G01C		21	/	00	I	2013-01-01
G01C		21	/	34	I	2013-01-01
G06F		3	/	016	I	2013-01-01
G06F		3	/	0481	I	2013-01-01
G06F		3	/	04842	I	2013-01-01
G06F		8	/	65	I	2013-01-01
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G06Q		30	/	012	I	2013-01-01
G06Q		30	/	0265	I	2013-01-01
G06Q		30	/	0633	I	2013-01-01
G06Q		30	/	0639	I	2013-01-01
G06Q		30	/	0645	I	2013-01-01
G06Q		50	/	30	I	2013-01-01
G07C		5	/	00	I	2013-01-01
G07C		5	/	008	I	2013-01-01

/ALEX C DUNN/ Examiner.Art Unit 3663	5/1/2015	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/THOMAS TARCZA/ Supervisory Patent Examiner.Art Unit 3663	05/01/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	8	25

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14253204	RICCI, CHRISTOPHER P.
	Examiner	**Art Unit**
	ALEX C DUNN	3663

G07C		5	/ 0808	I	2013-01-01
G07C		5	/ 085	I	2013-01-01
G07C		9	/ 00126	I	2013-01-01
G08B		21	/ 0205	I	2013-01-01
H04L		63	/ 08	I	2013-01-01
H04L		67	/ 12	I	2013-01-01
H04N		21	/ 214	I	2013-01-01
H04N		21	/ 2181	I	2013-01-01
H04N		21	/ 25841	I	2013-01-01
H04N		21	/ 4542	I	2013-01-01
H04N		21	/ 4751	I	2013-01-01

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

/ALEX C DUNN/ Examiner.Art Unit 3663	5/1/2015	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/THOMAS TARCZA/ Supervisory Patent Examiner.Art Unit 3663	05/01/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	8	25

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14253204	RICCI, CHRISTOPHER P.
	Examiner	**Art Unit**
	ALEX C DUNN	3663

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
701	49	B	6	0	R	16 / 037 (2006.0)						

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

/ALEX C DUNN/ Examiner.Art Unit 3663	5/1/2015	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/THOMAS TARCZA/ Supervisory Patent Examiner.Art Unit 3663	05/01/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	8	25

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14253204	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
2	4	17	23												
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/ALEX C DUNN/ Examiner.Art Unit 3663	5/1/2015	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	20	
/THOMAS TARCZA/ Supervisory Patent Examiner.Art Unit 3663	05/01/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	8	25

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	9	(US-20090284359-$ or US-20140028542-$ or US-20020126876-$ or US-20120059789-$ or US-20100106418-$ or US-20040225557-$ or US-20100304640-$ or US-20020077985-$ or US-20110309926-$).did.	US-PGPUB	OR	ON	2015/01/17 07:38
S2	4	S1 AND (location ADJ3 vehicle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/17 07:39
S3	981	(((location OR area) ADJ inside) ADJ2 vehicle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/17 07:47
S4	896	S3 AND @ay<"2013"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/17 07:48
S5	219	S4 AND (vehicle ADJ control)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/17 07:50
S6	213	S5 AND (user OR driver OR passenger)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/17 07:50
S7	73	S6 AND "701".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/17 07:51
S8	0	S7 AND (user ADJ profile)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/01/17 07:51
S9	13	S7 AND profile	US-PGPUB;	OR	ON	2015/01/17

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			07:51

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	((determining ADJ2 location) SAME7 (inside ADJ2 vehicle) SAME7 (determining ADJ3 one) SAME7 (vehicle ADJ control) SAME7 (associated ADJ4 inside) SAME7 (presence ADJ3 user) SAME7 (detecting ADJ2 device) SAME7 (user ADJ3 area) SAME7 (user ADJ profile ADJ memory) SAME7 (control ADJ settings) SAME7 (adjust ADJ4 one) SAME7 (vehicle ADJ control) SAME7 (providing ADJ2 adjustment) SAME7 (location ADJ inside) SAME7 (adapted ADJ2 control) SAME7 (one ADJ2 control ADJ5 inside ADJ2 vehicle)).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2015/05/01 07:27

5/1/2015 7:30:19 AM
C:\Users\adunn\Documents\EAST\Workspaces\14253204.wsp

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14253204	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	49	1/17/2015	Alex C. Dunn

SEARCH NOTES		
Search Notes	Date	Examiner
EAST	1/17/2015	Alex C. Dunn

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	Text	5/1/2015	Alex C. Dunn

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

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/253,204
				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	6583-561

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	5204817	04/20/1993	Yoshida	
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Examiner Signature		Date Considered	

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

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(Use as many sheets as necessary)				Art Unit	3663
				Examiner Name	DUNN, ALEX C
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				Examiner Name	DUNN, ALEX C
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				Art Unit	3663
				Examiner Name	DUNN, ALEX C
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NON-PATENT LITERATURE DOCUMENTS

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	185	International Search Report and Written Opinion for International (PCT) Patent Application No. PCT/US2014/034088, mailed Dec. 24, 2014 (Attorney's Ref. No. 6583-549-PCT) 9 pages
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	187	Official Action for U.S. Patent Application No. 14/253,836, mailed Feb. 24, 2015 (Attorney's Ref. No. 6583-537) 12 pages
	188	Official Action for U.S. Patent Application No. 14/253,706, mailed Jan. 29, 2015 (Attorney's Ref. No. 6583-550) 8 pages
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	192	Official Action for U.S. Patent Application No. 14/252,858, mailed Jan. 26, 2015 (Attorney's Ref. No. 6583-565) 8 pages

Examiner Signature		Date Considered	

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

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/253,204
				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	6583-561

	193	Official Action for U.S. Patent Application No. 14/253,034, mailed Jan. 26, 2015 (Attorney's Ref. No. 6583-566) 12 pages
	194	Notice of Allowance for U.S. Patent Application No. 14/253,405, mailed Mar. 05, 2015 (Attorney's Ref. No. 6583-567) 5 pages
	195	Official Action for U.S. Patent Application No. 14/252,876, mailed Jan. 30, 2015 (Attorney's Ref. No. 6583-568) 9 pages
	196	Official Action for U.S. Patent Application No. 14/253,838, mailed Mar. 12, 2015 (Attorney's Ref. No. 6583-574) 32 pages
	197	Notice of Allowance for U.S. Patent Application No. 14/253,312, mailed Dec. 19, 2014 (Attorney's Ref. No. 6583-585) 8 pages
	198	Official Action for U.S. Patent Application No. 14/253,334, mailed Jan. 27, 2015 (Attorney's Ref. No. 6583-586) 13 pages
	199	Official Action for U.S. Patent Application No. 14/253,371, mailed Dec. 16, 2014 (Attorney's Ref. No. 6583-588) 7 pages
	200	Notice of Allowance for U.S. Patent Application No. 14/253,371, mailed Apr. 15, 2015 (Attorney's Ref. No. 6583-588) 6 pages
	201	Official Action for U.S. Patent Application No. 14/253,416, mailed Dec. 01, 2014 (Attorney's Ref. No. 6583-595) 8 pages
	202	Notice of Allowance for U.S. Patent Application No. 14/253,416, mailed Mar. 18, 2015 (Attorney's Ref. No. 6583-595) 6 pages
	203	Notice of Allowance for U.S. Patent Application No. 14/253,058, mailed Jan. 28, 2015 (Attorney's Ref. No. 6583-600) 9 pages
	204	Official Action for U.S. Patent Application No. 14/253,022, mailed Feb. 20, 2015 (Attorney's Ref. No. 6583-602) 13 pages
	205	Official Action for U.S. Patent Application No. 14/253,251, mailed Dec. 29, 2014 (Attorney's Ref. No. 6583-607) 8 pages
	206	Notice of Allowance for U.S. Patent Application No. 14/253,251, mailed Apr. 10, 2015 (Attorney's Ref. No. 6583-607) 5 pages
	207	Official Action for U.S. Patent Application No. 14/253,388, mailed Jan. 30, 2015 (Attorney's Ref. No. 6583-609) 8 pages
	208	Official Action for U.S. Patent Application No. 14/253,406, mailed Dec. 11, 2014 (Attorney's Ref. No. 6583-610) 6 pages
	209	Notice of Allowance for U.S. Patent Application No. 14/253,406, mailed Apr. 6, 2015 (Attorney's Ref. No. 6583-610) 6 pages
	210	Official Action for U.S. Patent Application No. 14/253,464, mailed Jan. 28, 2015 (Attorney's Ref. No. 6583-611) 9 pages
	211	Official Action for U.S. Patent Application No. 14/253,755, mailed Apr. 24, 2015 (Attorney's Ref. No. 6583-614) 13 pages

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	14/253,204
				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	8	of	8	Attorney Docket Number	6583-561

	212	Official Action for U.S. Patent Application No. 14/253,727, mailed Jan. 06, 2015 (Attorney's Ref. No. 6583-619) 8 pages
	213	Official Action for U.S. Patent Application No. 14/253,743, mailed Feb. 12, 2015 (Attorney's Ref. No. 6583-626) 8 pages
	214	Official Action for U.S. Patent Application No. 14/253,766, mailed Dec. 12, 2014 (Attorney's Ref. No. 6583-627) 7 pages
	215	Notice of Allowance for U.S. Patent Application No. 14/253,766, mailed Apr. 10, 2015 (Attorney's Ref. No. 6583-627) 5 pages
	216	Notice of Allowance for U.S. Patent Application No. 14/253,506, mailed Mar. 06, 2015 (Attorney's Ref. No. 6583-637) 5 pages

Examiner Signature		Date Considered	

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Espacenet

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

NAVIGATION SYSTEM WHICH IT FOLLOWS IN DRIVER PROPENSITY

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

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

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

Application number: KR20050049976 20050610

Priority number(s): KR20050049976 20050610

Also published as: KR100715181 (B1)

Abstract of KR20060128484 (A)

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

(19)대한민국특허청(KR)
(12) 등록특허공보(B1)

(51) 。Int. Cl.
G08G 1/0968 (2006.01)

(45) 공고일자 2007년05월07일
(11) 등록번호 10-0715181
(24) 등록일자 2007년04월30일

(21) 출원번호 10-2005-0049976
(22) 출원일자 2005년06월10일
심사청구일자 2005년06월10일

(65) 공개번호 10-2006-0128484
(43) 공개일자 2006년12월14일

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JP08016991 A *
*는 심사관에 의하여 인용된 문헌

심사관 : 김성곤

전체 청구항 수 : 총 1 항

(54) 운전자 성향에 따른 능동적 경로탐색 정보 안내 시스템

(57) 요약

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

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

대표도

도 1

특허청구의 범위

청구항 1.

네비게이션 시스템에 있어서,

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

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

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

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

(A). 가장 자주 이용되는 주행 경로순으로 궤적 우선 순위정보,

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

(C). 사용자의 주행 경로중 주요 통과점 패턴 정보

(D). 사용자가 이용하는 주요 우회 도로 패턴 구간 정보

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

청구항 2.

삭제

명세서

발명의 상세한 설명

발명의 목적

발명이 속하는 기술 및 그 분야의 종래기술

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

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

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

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

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

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

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

발명이 이루고자 하는 기술적 과제

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

발명의 구성

본 발명은 네비게이션 시스템에 있어서,

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

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

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

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

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

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

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

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

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

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

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

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

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

(A). 가장 자주 이용되는 주행 경로순으로 궤적 우선 순위를 저장

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

(C). 사용자의 주행 경로중 주요 통과점 패턴 저장

(D). 사용자가 이용하는 주요 우회 도로 패턴 및 구간 저장

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

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

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

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

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

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

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

도 2는 이의 과정을 나타낸 플로우챠트이다.

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

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

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

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

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

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

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

도 3은 이의 과정을 나타낸 플로우챠트이다.

운전자가 요구한 출발지,목적지 권역이 일치하는 가를 판단한다.

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

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

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

이와 같은 과정을 통해 운전자가 선호하는 주행경로를 능동적으로 안내하게 된다.

발명의 효과

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

도면의 간단한 설명

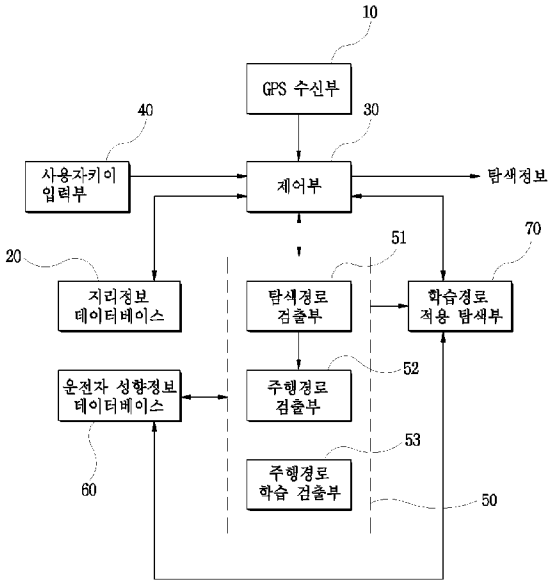
도 1은 본 발명 운전자 성향에 따른 능동적 경로탐색 정보 안내 시스템의 구성을 보인 블록도.

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

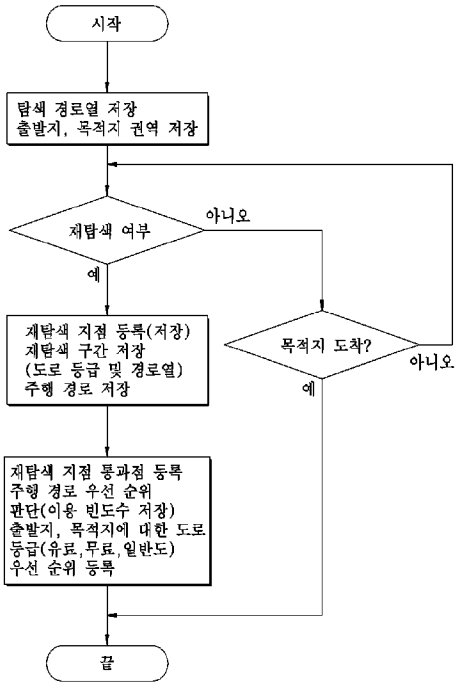
도 3은 본 발명에 있어서, 분석정보를 이용하여 운전자의 경로 탐색정보를 제공하는 알고리즘을 나타낸 플로우챠트.

도면

도면1

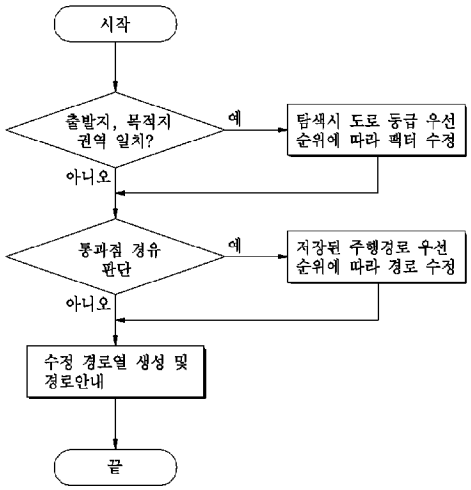


도면2



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도면3



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PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

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

PCT

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

(PCT Rule 44.1)

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

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

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

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

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

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

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

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

4. **Reminders**

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

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

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

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

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

Form PCT/ISA/220 (July 2014)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

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

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

This international search report consists of a total of 4 sheets.

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

1. **Basis of the report**

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

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

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

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

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

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

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

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

☒ the text is approved as submitted by the applicant.

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

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

☒ the text is approved as submitted by the applicant.

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

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

a. the figure of the **drawings** to be published with the abstract is Figure No. 20

☒ as suggested by the applicant.

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

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

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

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

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2014/034088

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

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

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

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

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

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

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

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

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

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

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

Remark on Protest

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

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

☐ No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (2)) (July 2009)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2014/034088

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - G06Q 30/02 (2014.01)
USPC - 705/14.62
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC(8) - G06F 17/30; G06Q 30/00, 30/02 (2014.01)
USPC - 705/14.4, 14.49, 14.53, 14.62, 14.66

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

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

PatBase, Google Patents, Google Scholar
Search Terms Used: vehicular advertising, creating targeted advertising profiles based on user behavior, contextual advertising

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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

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

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

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

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

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2014/034088

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

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

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

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

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

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

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

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

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

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

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

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

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

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

Applicant FLEXTRONICS AP, LLC

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

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

2. **FURTHER ACTION**

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

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

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

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

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

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2014/034088

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

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

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

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(a))

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing filed or furnished:

   a. (means)

      ☐ on paper

      ☐ in electronic form

   b. (time)

      ☐ in the international application as filed

      ☐ together with the international application in electronic form

      ☐ subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2014/034088

Box No. IV Lack of unity of invention

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

   ☐ paid additional fees

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

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

   ☒ not paid additional fees

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

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

   ☐ complied with

   ☒ not complied with for the following reasons:

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

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

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

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

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

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

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

   ☐ all parts

   ☒ the parts relating to claims Nos. 1-7

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

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2014/034088

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

1. Statement

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

2. Citations and explanations:

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

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

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

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

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

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

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

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

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

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

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

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

111285 7590 02/24/2015

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

EXAMINER
PAIGE, TYLER D

ART UNIT	PAPER NUMBER
3661	

NOTIFICATION DATE	DELIVERY MODE
02/24/2015	ELECTRONIC

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

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

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

flexpatents@sheridanross.com
edocket@sheridanross.com

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

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

Period for Reply

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

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

Status

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

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

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

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

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

Disposition of Claims*

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

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

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

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

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

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

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

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

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

4) ☐ Other: _____.

DETAILED ACTION

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA. This office action is in response to an application filed on 04/15/2015. The applicant submits one Information Disclosure Statement dated 11/25/2014. The applicant claims Domestic priority to numerous applications with the earliest filing date of 11/16/2012.

Claim Rejections - 35 USC § 102

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Claim Rejections - 35 USC § 103

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Examiner Request

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

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

Conclusion

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

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

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

/T. P./
Examiner, Art Unit 3661

/Thomas G Black/

Supervisory Patent Examiner, Art Unit 3661

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

U.S. PATENT DOCUMENTS

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

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

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

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

U.S. PATENT DOCUMENTS

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

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
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	Q					
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	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,706	04/15/2014	Christopher P. Ricci	6583-550	7498

111285 7590 01/29/2015

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

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
01/29/2015	ELECTRONIC

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

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

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

flexpatents@sheridanross.com
edocket@sheridanross.com

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

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

Period for Reply

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

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

Status

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

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

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

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

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

Disposition of Claims*

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

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

6)☐ Claim(s) _____ is/are allowed.

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

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

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

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

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

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

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

4) ☐ Other: _____.

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

DETAILED ACTION

Claim Rejections - 35 USC § 102

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

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

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

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

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

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

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

Claim Rejections - 35 USC § 103

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

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

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

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

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

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

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

Allowable Subject Matter

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

Conclusion

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

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

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

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

ALEX C. DUNN
Examiner, Art Unit 3663

/THOMAS TARCZA/

Supervisory Patent Examiner, Art Unit 3663

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

U.S. PATENT DOCUMENTS

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

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
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	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

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	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.
14/253,729	04/15/2014	Christopher P. Ricci	6583-555	8377

111285 7590 03/06/2015

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

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
03/06/2015	ELECTRONIC

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

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

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

flexpatents@sheridanross.com
edocket@sheridanross.com

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

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

Period for Reply

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 *2/19/2015*.

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

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

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

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

Disposition of Claims*

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

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

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

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

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

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

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

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

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

4) ☐ Other: _____.

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

DETAILED ACTION

Response to Arguments

2. Applicant's arguments, see pages 5 and 7, filed 2/19/2015, with respect to the rejection(s) of claim(s) 1, 11 and 16 under 35 USC 102 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of applicant's amendments.

Claim Rejections - 35 USC § 103

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

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

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

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

6. (Claims 1, 11 and 16): Link discloses a method for providing navigation information for a conveyance, comprising: a vehicle control system, including a processor, determining an origin location (figs. 1 and 9; [0024]); the vehicle control system determining two or more destination locations ([0057]); the vehicle control system determining a timeframe for the route (fig. 3; [0062]); and the vehicle control system generating a best route to the two or more destinations in the timeframe (fig. 10; [0062]; [0096 – 0097]). Link does not teach determining multiple locations based on information in a user profile. However, in a related invention Seltzer teaches wherein the two or more destination locations are determined based on information stored in a user profile (fig. 7; [0005 - 0007]; [0063 – 0066]). It would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to modify Link to use data stored in user profiles to analyze and determine destinations, as a very common requirement in today's navigation systems.

7. (Claims 2 – 4, 12 and 17): Link and Seltzer teach the methods of claims 1, 11 and 16. Link further teaches a method for providing navigation information for a conveyance, wherein the timeframe is an amount of time available to a user to travel the route, wherein the best route includes a return to the origin location, and wherein the user provide the amount of time available (fig. 3; [0062]; [0096 – 0097]).

8. (Claims 5 – 6, 13 and 18): Link and Seltzer teach the methods of claims 1, 11 and 16. Link further teaches a method for providing navigation information for a conveyance, wherein the route suggestion module accesses preference data in a user

profile to determine preferred routes, wherein the best route is a preferred route (fig. 3; [0052]; [0055 - 0056]).

9. (Claims 7 – 8, 14 and 19): Link and Seltzer teach the methods of claims 1, 11 and 16. Seltzer further teaches wherein the user profile includes a first location that should be avoided, and wherein the best route avoids the first location ([0003]; [0027]; [0063]).

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

11. (Claims 9 – 10, 15 and 20): Link and Seltzer teach the methods of claims 1, 11 and 16. Link and Seltzer do not explicitly teach a first location being an area between the original location and a destination. However, in a related invention Sumizawa teaches a navigation system, wherein the first location is an area between the origin location and at least one destination (abstract; figs. 3 - 4; [0066]). (Note: The feature of an address in a user profile is taught in Link's fig. 3). It would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to modify Link to use an area instead of a single location, as a very desirable feature in modern navigation systems.

Conclusion

12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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

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

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/252,871	04/15/2014	Christopher P. Ricci	6583-560	1084

111285 7590 03/27/2015

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

EXAMINER
FIGUEROA, JAIME

ART UNIT	PAPER NUMBER
3664	

NOTIFICATION DATE	DELIVERY MODE
03/27/2015	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. 14/252,871	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner JAIME FIGUEROA	Art Unit 3664	AIA (First Inventor to File) Status Yes

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

Period for Reply

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

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

Status

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

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

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

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

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

Disposition of Claims*

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

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

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

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

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

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

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

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

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

4) ☐ Other: _____.

DETAILED ACTION

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA. Pursuant to communications filed on 04/15/2014, this is a First Action Non-Final Rejection on the Merits. Claims 1-20 are currently pending in the instant application.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 11/25/2014 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the Examiner.

Examiner's Note

Examiner has cited particular paragraphs / columns and line numbers or figures in the references as applied to the claims below for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant, in preparing the responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the examiner. Applicant is reminded that the Examiner is entitled to give the broadest reasonable interpretation to the language of the claims. Furthermore, the Examiner is not limited to Applicants' definition which is not specifically set forth in the claims.

Claim Rejections - 35 USC § 102

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.

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.

Claims 1, 2, 4-12, 14-20 are rejected under 35 U.S.C. 102(a)(2) as being anticipated by White et al. (US2007/0200663).

Regarding claims 1 and 11, White et al discloses a system that reports one or more vehicle conditions (e.g. via a Method and system for controlling a vehicle given to a third party as shown in fig. 1) comprising:

a vehicle reporting module (see at least fig. 1: via vehicle control module and identification system 16; see also fig. 32: via system controller 1016) adapted to receive one or more of a request, a smart calendar item, a trigger and context information, and determine what one or more types of information should be monitored (see at least [0240] disclosing the plurality of

data received by the controller, for example the substance detecting sensor 1014 provides data that can be trigger a monitoring; the identity board 1018 along the biometric authenticator 1012 can perform trigger monitoring; see also [0134] disclosing the monitoring feature);

a communication system (see at least fig. 1: via a wireless communication unit) adapted to forward one or more of the one or more types of information to one or more destinations (see at least [0116] disclosing notifying to the police or to family members of the driver).

Regarding claims 2 and 12, White et al discloses wherein the one or more destinations include a smartphone, a communications device and a remote access device (see at least [0118 and 0121] disclosing communication with cellphone).

Regarding claims 4 and 14, White et al discloses wherein a context module determines context of the vehicle and based on one or more thresholds, initiates the trigger (see at least fig. 38 and [0258] disclosing the threshold feature and determining if the system cab be override or not based on information detected fro driver).

Regarding claims 5 and 15, White et al discloses wherein a context module cooperates with a breathalyzer and determines when monitoring should commence (see fig. 1 showing the breathalyzer coupled to the state detector, see [0152]; see fig. 34 having the alcohol level detector 2014 and see at least [0116]).

Regarding claims 6 and 16, White et al discloses wherein one or more of images, video, audio, GPS information, location information, passenger information and time at location information are monitored (see at least fig. 1 showing the GPS system, a camera, scanners, microphone, heart monitor, etc.; see at least [0115]) .

Regarding claims 7 and 17, White et al discloses wherein a parental control module initiates the request to begin monitoring (see at least [0118 and 0150] disclosing the parental control).

Regarding claims 8 and 18, White et al discloses wherein one or more of an expression, facial ID and gestures are the trigger (see at least [0154] disclosing the face recognition authenticator; see [0169] disclosing the face scanner or retinal scanner in combination with a breathalyzer).

Regarding claims 9 and 19, White et al discloses wherein a remote access device can establish one or more of audio and video communication with the vehicle, and can also control one or more vehicle functions (see at least [0150] disclosing the remote control of the vehicle).

Regarding claims 10 and 20, White et al discloses wherein the remote access device is a communications device, a smartphone, a tablet computer and a computer 9see [0073, 0121, and 0134]).

Claim Rejections - 35 USC § 103

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

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

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

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

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

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

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

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

Claims 3and 13 are rejected under 35 U.S.C. 103 as being unpatentable over White et al. (US2007/0200663) in view of Rovik et al (US2013/0226449).

Regarding claims 3 and 13, White et al discloses as discussed above in claims 1 and 11. White et al is silent to disclose wherein a smart calendar module initiates one or more triggers, the initiation based on one or more calendared events.

However, in the same field of endeavour, Rovik et al teaches the claimed feature implemented in a vehicle 102 to be used by the driver, specifically the smart calendar feature and interface as shown in fig. 7-9 providing multiple events to the driver with reminders (see [0081-0083]). It would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to provide White et al with the smart calendar feature as taught by Rovik et al, since a combination will provide White et al the benefit of having an interface with an smart calendar full of events and reminders for the driver.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAIME FIGUEROA whose telephone number is (571)270-7620. The examiner can normally be reached on Monday-Friday, 9:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Khoi H. Tran can be reached on 571-272-6919. 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.

/JAIME FIGUEROA/
Examiner, Art Unit 3664

Notice of References Cited	Application/Control No. 14/252,871	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner JAIME FIGUEROA	Art Unit 3664	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2007/0200663 A1	08-2007	White et al.	340/5.31
*	B	US-2011/0231091 A1	09-2011	Gourlay et al.	701/204
*	C	US-8,442,758 B1	05-2013	Rovik et al.	701/424
*	D	US-2013/0226449 A1	08-2013	Rovik et al.	701/424
*	E	US-2013/0226371 A1	08-2013	Rovik et al.	701/2
*	F	US-2013/0332023 A1	12-2013	Bertosa et al.	701/29.4
*	G	US-2014/0164611 A1	06-2014	Molettiere et al.	709/224
*	H	US-2014/0281971 A1	09-2014	Isbell et al.	715/716
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

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

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,330	04/15/2014	Christopher P. Ricci	6583-563	1076

111285 7590 04/13/2015

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

EXAMINER
FIGUEROA, JAIME

ART UNIT	PAPER NUMBER
3664	

NOTIFICATION DATE	DELIVERY MODE
04/13/2015	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. 14/253,330	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner JAIME FIGUEROA	Art Unit 3664	AIA (First Inventor to File) Status Yes

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

Period for Reply

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

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

Status

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

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

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

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

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

Disposition of Claims*

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

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

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

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

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

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

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

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

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

4) ☐ Other: _____.

DETAILED ACTION

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA. Pursuant to communications filed on 04/15/2014, this is a First Action Non-Final Rejection on the Merits. Claims 1-20 are currently pending in the instant application.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 11/25/2014 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the Examiner.

Claim Objections

Claim 20 is objected to because of the following informalities: it appears there is a typo error in claim 20 because the claim reads as follows:

20. The system of claim **20**, wherein….. Therefore, for examination purposes claim 20 should be dependent of claim **19**. Appropriate correction is required.

Examiner's Note

Examiner has cited particular paragraphs / columns and line numbers or figures in the references as applied to the claims below for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant, in preparing the responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art

or disclosed by the examiner. Applicant is reminded that the Examiner is entitled to give the broadest reasonable interpretation to the language of the claims. Furthermore, the Examiner is not limited to Applicants' definition which is not specifically set forth in the claims.

Claim Rejections - 35 USC § 102

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.

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.

Claims 1-8, 12-20 are rejected under 35 U.S.C. 102(a)(2) as being anticipated by Hagan, Jr. (US 2014/0257627).

Regarding claims, 1, 14 and 19, Hagan Jr discloses a method, the associated non-transitory CRM and the associated system (e.g. via a system for monitoring components within a vehicle to determine if chassis damage may have occurred – see fig. 1 below), comprising:

receiving sensor data (see fig. 1: chassis damage control 40 receives signals from sensors) from one or more vehicle sensors (see fig. 1 showing at least sensors 16/18; see at least [0006, 0017] disclosing one or more sensors connected to the vehicle provide data relating to the operation of the vehicle);

determining, from the sensor data, if vehicle damage has occurred (see at least [0020-0021] disclosing controller 40 determines if there is a chassis damage based on the sensor signals); and

taking action if vehicle damage occurs (e.g. the action is being interpreted as for example providing to the driver an alert of the potential chassis damage as shown in fig. 1 and [0023]; alternatively, the action can be transmitting the chassis damage signal to a remote server 64).

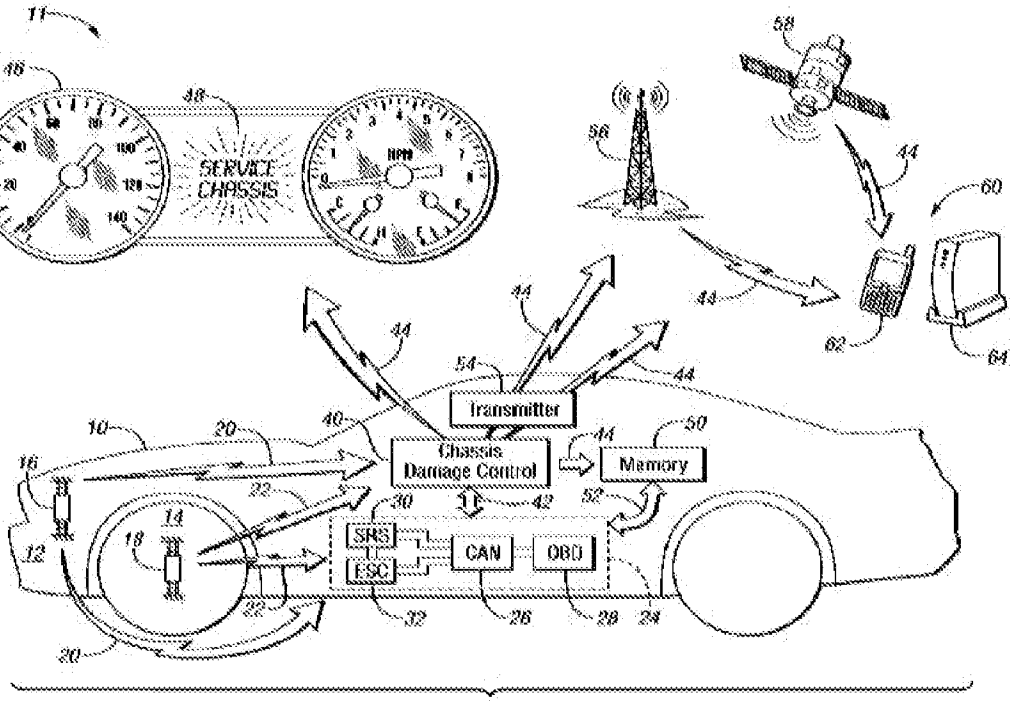


FIG. 1

Regarding claims 2, 15 and 20, Hagan Jr discloses further comprising comparing the sensor data to vehicle damage threshold data (see [0008, 0021, 0024, 0027] disclosing the controller 40 performs comparison of sensed data with the potential damage range).

Regarding claims 3 and 16, Hagan Jr discloses wherein vehicle damage occurs if one or more vehicle damage thresholds are exceeded (see [0021]).

Regarding claim 4, Hagan Jr discloses wherein the vehicle damage threshold data is stored in authorized user profile data (see [0024, 0028]).

Regarding claims 5 and 17, Hagan Jr discloses wherein the one or more vehicle sensors comprise an image sensor, a motion sensor, a vibration sensor and a force sensor (see [0017] disclosing the plurality of sensors that can be used in the vehicle).

Regarding claim 6, Hagan Jr discloses wherein the taking action comprises providing an alert (providing to the driver an alert of the potential chassis damage as shown in fig. 1 and [0023]).

Regarding claims 7 and 18, Hagan Jr discloses wherein the providing an alert comprises a **visual alert**, an audio alert, emergency responder alert, and alert to one or more authorized users (providing to the driver a visual alert of the potential chassis damage as shown in fig. 1 and [0023]; alternatively, the action can be transmitting the chassis damage signal to a remote server 64).

Regarding claim 8, Hagan Jr discloses further comprising providing a notice in real-time (vehicle data monitoring is inherently performed in real time in order to

provide safety determinations; see also [0023-0024]) .

Regarding claim 12, Hagan Jr discloses wherein the one or more vehicle sensor comprises a sensor located within a body frame of the vehicle (see fig. 1 showing at least sensors 16/18; see at least [0006, 0017] disclosing one or more sensors connected to the vehicle provide data relating to the operation of the vehicle).

Regarding claim 13, Hagan Jr discloses further comprising recording sensor data associated with vehicle damage (see [0024] disclosing storage device 50 for storing the potential-chassis-damage signal 44).

Claim Rejections - 35 USC § 103

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

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

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

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148

USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103 are summarized as follows:

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

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

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

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

Claims 9-11 are rejected under 35 U.S.C. 103 as being unpatentable over Hagan, Jr. in view of Sundermeyer et al. (US 2006/0243056).

Regarding claims 9-11, Hagan Jr discloses as discussed above in claim 1. Hagan Jr is silent to disclose specifically (claim 9) the method further comprising identifying at least one of the locations of the damage and the degree of the damage. (claim 10) wherein both the location of the damage and the degree of the damage are identified and both are communicated to a third party. (claim 11) wherein the taking action comprises guiding one or more vehicle sensors to sense an area surrounding the vehicle damage.

However, in the same field of endeavour, Sundermeyer et al teaches the claimed features implemented in a system and method for monitoring, determining, and evaluating the loads, health, and use of a work machine (vehicle 100). Sundermeyer et al teaches particularly the claimed identification of the damage location (see [0149]), the degree of the damage (see [0160-0164]), communicating the damage data with a third party (see [0127]) and guiding one or more vehicle

sensors to sense an area surrounding the vehicle damage (see [0031]).

Therefore, it would have been obvious to one having ordinary skill in the art before the effective filing date of the claimed invention to provide Hagan et al with the teachings of Sundermeyer et al, since such a combination will provide Hagan et al the benefit of having a vehicle health monitoring that provides damage location, damage degree, monitoring the surrounding the damage and communicating this data to an external server providing useful information that allows operators, user, and computer systems to assess the health of a vehicle and perform further analysis based on this information.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAIME FIGUEROA whose telephone number is (571)270-7620. The examiner can normally be reached on Monday-Friday, 9:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Khoi H. Tran can be reached on 571-272-6919. 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.

/JAIME FIGUEROA/
Examiner, Art Unit 3664

Notice of References Cited	Application/Control No. 14/253,330	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner JAIME FIGUEROA	Art Unit 3664	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,531,122 A	07-1996	Chatham et al.	73/760
*	B	US-2003/0004624 A1	01-2003	Wilson et al.	701/33
*	C	US-6,778,888 B2	08-2004	Cataldo et al.	701/29.6
*	D	US-2006/0243056 A1	11-2006	Sundermeyer et al.	073/760
*	E	US-2007/0118301 A1	05-2007	Andarawis et al.	702/033
*	F	US-2008/0082237 A1	04-2008	Breed, David S.	701/045
*	G	US-2012/0046822 A1	02-2012	Anderson, Noel Wayne	701/29.1
*	H	US-2013/0066512 A1	03-2013	Willard et al.	701/29.1
*	I	US-8,548,669 B2	10-2013	Naylor, David Glen	701/29.1
*	J	US-8,600,611 B2	12-2013	Seize, Guilhem	701/33.2
*	K	US-2014/0207328 A1	07-2014	Wolf et al.	701/31.7
*	L	US-2014/0257627 A1	09-2014	Hagan, Jr., Daniel Lee	701/33.8
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

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

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

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

111285 7590 01/26/2015

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

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
01/26/2015	ELECTRONIC

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

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

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

flexpatents@sheridanross.com
edocket@sheridanross.com

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

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *4/15/2015*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

1. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

3. Claims 1 – 4, 6, 9, 11 – 14, 16 and 19 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Phelan et al., (20040225557).

4. (Claims 1 - 4 and 11 - 14): Phelan discloses a driver facts system comprising: one or more systems that track user behavior ([0003]), the user behavior including one or more of: one or more user actions and one or more user interactions with a vehicle (abstract; figs 1- 2; [0012]); and a storage system adapted to store the user behavior, wherein the tracked user behavior is associated with a driver and the storage system is capable of storing the tracked behavior for the driver from a plurality of vehicles (fig. 2; [0047]; [0052]).

5. (Claims 6, 9, 16 and 19): Phelan discloses a driver facts system, wherein the storage system that stores the user behavior is interrogatable by one or more of law enforcement, a vehicle manufacturer, a vehicle dealer, a vehicle repair shop, an insurance company, a warranty company, and another user ([0045]).

Claim Rejections - 35 USC § 103

6. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

7. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 5 and 15 are rejected under 35 U.S.C. 103 as being unpatentable over Phelan et al., (20040225557) as applied to claims 1 and 11 above, and further in view of Kobata (20020077985).

9. (Claims 5 and 15): Phelan discloses a driver facts system comprising: one or more systems that track user behavior ([0003]), the user behavior including one or more of: one or more user actions and one or more user interactions with a vehicle (abstract; figs 1- 2; [0012]). Phelan does not teach

preventing disablement of the tracking. However, in a related invention, Kobata teaches controlling and managing digital assets wherein disabling of the tracking of user behavior is prohibited ([0182]). It would have been obvious to one of ordinary skill in the art before the filing date of the claimed invention to modify Phelan to prohibit disablement of tracking, as a fairly common requirement in digital assets management.

10. Claims 7 – 8 and 17 - 18 are rejected under 35 U.S.C. 103 as being unpatentable over Phelan et al., (20040225557) as applied to claims 1 and 11 above, and further in view of Eikelenberg (20110309926).

11. (Claims 7 - 8 and 17 - 18): Phelan discloses a driver facts system comprising: one or more systems that track user behavior ([0003]), the user behavior including one or more of: one or more user actions and one or more user interactions with a vehicle (abstract; figs 1- 2; [0012]). Phelan does not teach modifying a route based on user behavior. However, in a related invention, Eikelenberg teaches routing for efficient energy consumption, wherein the user behavior is used as input to determine whether an intended vehicle route should be modified in conjunction with one or more of: traffic information, weather information, prior routes, purchase information, patterns, preferences, prior route modification decisions, and user input ([0051 – 0052]). It would have been obvious to one of ordinary skill in the art before the filing date of the claimed invention, to modify Phelan to change a route based on user behavior, as a way improve his device offering with a desired capability, given today's interest in energy efficient vehicles.

12. Claims 10 and 20 are rejected under 35 U.S.C. 103 as being unpatentable over Phelan et al., (20040225557).

13. (Claims 10 and 20): Maintaining data integrity by restricting who can modify stored data in a system is well known. It would be obvious to prevent a user from modifying their behavior in a system designed to track and record such behavior.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to form 892 for cited references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX C. DUNN whose telephone number is (571)270-5323. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Tarcza can be reached on 26979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ALEX C. DUNN
Examiner, Art Unit 3663

/THOMAS TARCZA/

Supervisory Patent Examiner, Art Unit 3663

Notice of References Cited	Application/Control No. 14/252,858	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2002/0077985 A1	06-2002	Kobata et al.	705/51
*	B	US-2002/0126876 A1	09-2002	Paul et al.	382/104
*	C	US-2004/0225557 A1	11-2004	Phelan et al.	705/011
*	D	US-2009/0284359 A1	11-2009	Huang et al.	340/426.1
*	E	US-2010/0106418 A1	04-2010	Kindo et al.	701/300
*	F	US-2010/0304640 A1	12-2010	Sofman et al.	446/456
*	G	US-2011/0309926 A1	12-2011	Eikelenberg et al.	340/439
*	H	US-2012/0059789 A1	03-2012	Sakai et al.	706/52
*	I	US-2014/0028542 A1	01-2014	Lovitt et al.	345/156
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,034	04/15/2014	Christopher P. Ricci	6583-566	6457

111285 7590 01/26/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
TECKLU, ISAAC TUKU

ART UNIT	PAPER NUMBER
2198	

NOTIFICATION DATE	DELIVERY MODE
01/26/2015	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,034	Applicant(s) RICCI ET AL.	
	Examiner ISAAC T. TECKLU	Art Unit 2198	AIA (First Inventor to File) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *04/15/2014*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date *11/26/2014*.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

DETAILED ACTION

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Examiner Notes

Examiner cites particular columns, paragraphs, figures and line numbers from the references as applied to the claims below for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested that, in preparing responses, the applicant fully consider the references in their entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the examiner.

Claim Interpretation

After careful review of the original specification, the Examiner is unable to locate any lexicographic definitions with the required clarity, deliberateness, and precision. See MPEP §2111.01 IV.

The Examiner finds that because the Examined Claims recite neither "step for" nor "means for," the examined claims fail Prong (A) as set forth in MPEP §2181 I. Because all examined claims fail Prong (A) as set forth in MPEP §2181 I., the Examiner concludes that all examined claims do not invoke 35 U.S.C. §112, 6th paragraph. See also Ex parte Miyazaki, 89 USPQ2d 1207, 1215-16 (B.P.A.I. 2008)(precedential).

Terms such as "when", "if", "only if", "on the condition", "or", "in the event" and "in a case where" are representative of optional limitations; therefore, optional or conditional language do not narrow the claims because they can always be omitted.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-10 are rejected under 35 U.S.C 101 because the claimed invention is directed to non-statutory subject matter.

With respect to claim 1, the claim is directed to a system. However, as recited, the system is reasonably interpreted as entirely software, which amounts to descriptive material per se. The system is not supported by hardware such as tangible computer storage or execution engine, which would enable one skill in the art to construe that the system, is built from tangible product to carry out any functionality being conveyed from the claim. Thus, the system is software *per se* and therefore is not being tangibly embodied in a manner as to be executable. See MPEP § 2106.01.

Claims 2-10 are rejected for failing to cure the deficiencies of the above rejected non-statutory base claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the

claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

It has been noted that, a claimed invention is unpatentable if the differences between it and the prior art are "such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art." 35 U.S.C. § 103(a) (2000); *KSR Int'l v. Teleflex Inc.,* 127 S.Ct. 1727, 1734 (2007); *Graham v. John Deere Co.,* 383 U.S. 1, 13-14 (1966).

In *Graham,* the Court held that that the obviousness analysis is bottomed on several basic factual inquiries: "[(1)] the scope and content of the prior art are to be determined; [(2)] differences between the prior art and the claims at issue are to be ascertained; and [(3)] the level of ordinary skill in the pertinent art resolved." 383 U.S. at 17. *See also KSR,* 127 S.Ct. at 1734. "The combination of familiar elements according to known methods is likely to be obvious when it does no more; than yield predictable results." *KSR,* at 1739.

"When a work is available in one field of endeavor, design incentives and other market forces can prompt variations of it, either in the same field or in a different one. If a person of ordinary skill in the art can implement a predictable variation, § 103 likely bars its patentability." *Id.* at 1740.

"For the same reason, if a technique has been used to improve one device, and a person of ordinary skill in the art would recognize that it would improve similar devices in the same way, using the technique is obvious unless its actual application is beyond his or her skill." *Id.*

"Under the correct analysis, any need or problem known in the field of endeavor at the time of invention and addressed by the patent can provide a reason for combining the elements in the manner claimed." *Id.* t 1742.

Claims 1-20 are rejected under 35 U.S.C. 103 as being unpatentable over Rao et al. (US 2013/0139140 A1) in view of Throop et al. (US 2013/0031540 A1) / ZELLEN (US 2014/0245278 A1).

As per claim 1, Rao discloses a system for updating one or more of software and firmware in a vehicle comprising (see for example Fig. 2, 219):

a status module adapted to determine the availability of an update to the one or more of software and firmware (see for example [0054] and Fig. 2, 204); and

a message module adapted to query one or more other vehicles to determine if they have the update (see for example [0034]-[0035]); and

a vehicle firmware/software system adapted to download all or a portion of the update from the one or more other vehicles (see for example [0008] and [0052]).

Rao does not explicitly disclose updating of a firmware. Nevertheless, as evidenced by the teaching of Throop /ZELLEN, it is commonly known to update a firmware of a device (see for example Throop [0003]; see for example [0004]). Thus, it is respectfully submitted that it would have been obvious to one skilled in the art before the filing of the claimed invention to modify the teachings of Rao by including firmware in order to dynamically update both software and firmware

especially when the firmware experience a high level of wear with frequent and voluminous updates as once suggested by Throop/ZELLEN.

As per claim 2, the above combined references disclose the system of claim 1, wherein the update is partially downloaded from a plurality of the one or more other vehicles (see for example [0008] and [0052]).

As per claim 3, the above combined references disclose the system of claim 1, wherein the update is partially updated from a central repository (see for example ZELLEN: FIG. 1, 18 and 24).

As per claim 4, the above combined references disclose the system of claim 1, wherein the update is downloaded based on one or more rules or preferences (see for example Fig. 2, 204).

As per claim 5, the above combined references disclose the system of claim 1, wherein the update is downloaded based on a projected proximity to the one or more other vehicles (see for example [0037]; Throop: [0005]).

As per claim 6, the above combined references disclose the system of claim 1, wherein the update is downloaded directly from the one or more other vehicles (see for example [0008] and [0052]).

As per claim 7, the above combined references disclose the system of claim 1, wherein the update is sharable with one or more additional vehicles (see for example [0008] and [0052]).

As per claim 8, the above combined references disclose the system of claim 1, wherein a diagnostics module confirms the integrity of the update (see for example [0042]).

As per claim 9, the above combined references disclose the system of claim 1, wherein the message module broadcasts the availability of the update to one or more additional vehicles (see for example [0034]-[0035]).

As per claim 10, the above combined references disclose the system of claim 1, wherein the message module confirms the update is correct for the vehicle (see for example [0057] and Fig. 2, 204).

Per claims 11-20, these are method claims substantially paralleling the limitations in system claims 1-10. The above combined references disclose the use of such media (see, e.g., Fig. 1, 10) in implementing the prescribed steps, and all other limitations have been addressed as set forth above.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ISAAC TECKLU whose telephone number is (571)272-7957. The examiner can normally be reached on M-F 9:00A - 5:00P.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ISAAC T. TECKLU/

Primary Examiner, Art Unit 2198

Notice of References Cited	Application/Control No. 14/253,034	Applicant(s)/Patent Under Reexamination RICCI ET AL.	
	Examiner ISAAC T. TECKLU	Art Unit 2198	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2005/0097541 A1	05-2005	Holland, Steven W.	717/168
*	B	US-2006/0130033 A1	06-2006	Stoffels et al.	717/166
*	C	US-7,346,435 B2	03-2008	Amendola et al.	701/1
*	D	US-2009/0119657 A1	05-2009	Link, II, Charles M.	717/171
*	E	US-2011/0093846 A1	04-2011	Moinzadeh et al.	717/178
*	F	US-2011/0197187 A1	08-2011	ROH, Seung Hyun	717/173
*	G	US-2011/0247013 A1	10-2011	FELLER et al.	719/320
*	H	US-2011/0320089 A1	12-2011	Lewis, Derek Lane	701/32
*	I	US-2012/0030512 A1	02-2012	Wadhwa et al.	714/23
*	J	US-2012/0204166 A1	08-2012	Ichihara, Masaaki	717/168
*	K	US-2013/0031540 A1	01-2013	Throop et al.	717/173
*	L	US-2013/0139140 A1	05-2013	Rao et al.	717/170
*	M	US-2014/0109075 A1	04-2014	Hoffman et al.	717/169

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Notice of References Cited	Application/Control No. 14/253,034	Applicant(s)/Patent Under Reexamination RICCI ET AL.	
	Examiner ISAAC T. TECKLU	Art Unit 2198	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2014/0245278 A1	08-2014	ZELLEN, JEFFREY M.	717/170
*	B	US-2014/0245284 A1	08-2014	Alrabady et al.	717/173
*	C	US-2014/0282470 A1	09-2014	Buga et al.	717/170
*	D	US-2015/0007155 A1	01-2015	Hoffman et al.	717/168
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
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NOTICE OF ALLOWANCE AND FEE(S) DUE

111285 7590 03/05/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

DATE MAILED: 03/05/2015

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,405	04/15/2014	Christopher P. Ricci	6583-567	8768

TITLE OF INVENTION: Synchronization Between Vehicle and User Device Calendar

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	06/05/2015

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

111285 7590 03/05/2015
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.
14/253,405	04/15/2014	Christopher P. Ricci	6583-567	8768

TITLE OF INVENTION: Synchronization Between Vehicle and User Device Calendar

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	06/05/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
DUNN, ALEX C	3663	701-036000

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. _____

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,405	04/15/2014	Christopher P. Ricci	6583-567	8768

111285 7590 03/05/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER	
DUNN, ALEX C	

ART UNIT	PAPER NUMBER
3663	

DATE MAILED: 03/05/2015

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 14/253,405	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *2/18/2015*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *1-20*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov .
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/A. C. D./ Examiner, Art Unit 3663	/THOMAS TARCZA/ Supervisory Patent Examiner, Art Unit 3663

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/252,876	04/15/2014	Christopher P. Ricci	6583-568	6268

111285 7590 01/30/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
01/30/2015	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/252,876	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *4/15/2014*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *4/15/2014* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

Claim Rejections - 35 USC § 102

2. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

4. Claims 1 – 8 and 11 – 18 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Rector et al., (20110137520).

5. (Claims 1 - 3 and 11 - 13): Rector discloses a parental control system for a vehicle comprising: a parental control module ([0031]) adapted to limit one or more vehicle functions based on one or more rules (fig. 3; [0009]; [0025]) and a profile module adapted to interact with the parental control module to limit the one or more vehicle functions based on whether the profile is associated with a driver or a passenger ([0049 - 0050]).

6. (Claims 4 and 14): Rector discloses a parental control system of claims 1 and 11, wherein communications are established with one or more remote devices (fig. 1; [0026]; [0030]).

7. (Claims 5 - 7 and 15 - 17): Rector discloses a parental control system of claims 1 and 11, wherein one or more rules based functions are enabled or disabled, wherein the one or more rules based functions include at least one vehicle operational function (fig. 4; [0008]; [0023 - 0024]; [0057]).

8. (Claims 8 and 18): Rector discloses a parental control system of claims 1 and 11, wherein the parental control module is activated based on one or more of a facial recognition and a profile associated with the vehicle ([0059]).

Claim Rejections - 35 USC § 103

9. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

10. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

11. Claims 9 and 19 are rejected under 35 U.S.C. 103 as being unpatentable over Rector et al., (20110137520) as applied to claims 1 and 11 above, and further in view of Lovitt et al., (20140028542). (Note: Lovitt is a 102(a)(2) reference).

12. (Claims 9 and 19): Rector discloses a parental control system of claims 1 and 11. Rector does not teach real-time video or audio communications between the vehicle and a device. However, in a related invention, Lovitt teaches a system, wherein real-time audio or video communications are established between the vehicle and a communications device or a computing device (fig. 1; [0021]; [0059]; [0072]). It would have been obvious to one of ordinary skill in the art, before the effective filing date of the claimed invention to modify Rector to incorporate audio or video outputs to communicate with vehicle occupants, as a common offering in today's interactive vehicles.

13. Claims 10 and 20 are rejected under 35 U.S.C. 103 as being unpatentable over Rector et al., (20110137520) as applied to claims 1 and 11 above, and further in view of White et al., (20100152976).

14. (Claims 10 and 20): Rector discloses a parental control system of claims 1 and 11. Rector does not teach using a breathalyzer to limit vehicle functions. However, in a related invention White teaches a system, wherein the one or more vehicle functions are limited based on a determined context of one or more of the vehicle and one or more passengers, and wherein information from a local or remote breathalyzer is used as input to determine whether to limit the one or more vehicle functions ([01116]). It would have been obvious to one of ordinary skill in the art, before the effective filing

date of the claimed invention to modify Rector to incorporate a breathalyzer input in his invention, as a common offering in today's interactive vehicles.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to form 892 for cited references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX C. DUNN whose telephone number is (571)270-5323. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Tarcza can be reached on 26979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ALEX C. DUNN
Examiner, Art Unit 3663

/THOMAS TARCZA/

Supervisory Patent Examiner, Art Unit 3663

Notice of References Cited	Application/Control No. 14/252,876	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2002/0077985 A1	06-2002	Kobata et al.	705/51
*	B	US-2004/0039504 A1	02-2004	Coffee et al.	701/35
*	C	US-2005/0038598 A1	02-2005	Oesterling et al.	701/207
*	D	US-2005/0159853 A1	07-2005	Takahashi et al.	701/001
*	E	US-2007/0135995 A1	06-2007	Kikuchi et al.	701/209
*	F	US-2008/0255721 A1	10-2008	Yamada, Mitsuo	701/33
*	G	US-2009/0299572 A1	12-2009	Fujikawa et al.	701/36
*	H	US-2010/0023204 A1	01-2010	Basir et al.	701/33
*	I	US-2010/0125405 A1	05-2010	Chae et al.	701/200
*	J	US-2010/0152976 A1	06-2010	White et al.	701/48
*	K	US-2011/0090078 A1	04-2011	Kim et al.	340/522
*	L	US-2011/0112717 A1	05-2011	Resner, Benjamin	701/33
*	M	US-2011/0137520 A1	06-2011	Rector et al.	701/36

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Notice of References Cited	Application/Control No. 14/252,876	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2012/0197523 A1	08-2012	Kirsch, David M.	701/426
*	B	US-2012/0254804 A1	10-2012	Sheha et al.	715/834
*	C	US-2014/0028542 A1	01-2014	Lovitt et al.	345/156
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
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	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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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 03/12/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
ISMAIL, MAHMOUD S

ART UNIT	PAPER NUMBER
3662	

NOTIFICATION DATE	DELIVERY MODE
03/12/2015	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,838	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 *02/20/2015*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *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. The amendment filed on 02/20/2015 has been entered and fully considered.
3. Claims 1, 4, 8, 10, 11, 13, 14, and 16-20 have been amended.
4. Claims 1-20 are pending in Instant Application.

Response to Arguments

5. Applicant's arguments with respect to claim 1 have been considered but are moot because the arguments do not apply to any of the references being used in the current rejection.
6. Applicant's amendment to claim 10 has overcome the claim objection raised in the previous action; therefore the claim objection is hereby withdrawn.
7. Applicant's amendments to claims 17-20 have overcome the 101 rejection raised in the previous action; therefore the 101 rejection is hereby withdrawn.
8. Applicant's amendments to claims 17-20 have overcome the 101 rejection raised in the previous action; therefore the 101 rejection is hereby withdrawn.
9. Applicant's amendments/arguments to claims 4-15 and 17-20 have overcome the 112 rejection raised in the previous action; therefore the 112 rejection is hereby withdrawn.

Claim Rejections - 35 USC § 103

10. 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.

11. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.
>
> The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103 are summarized as follows:
> 1. Determining the scope and contents of the prior art.
> 2. Ascertaining the differences between the prior art and the claims at issue.
> 3. Resolving the level of ordinary skill in the pertinent art.
> 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

12. Claims 1-20 are rejected under 35 U.S.C. 103 as being unpatentable over Breed (USPGPub 2008/0161986) in view of Nguyen (US 7,333,012).

As per claim 1, Breed discloses a method for controlling a vehicle, comprising:

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)**.

However Breed does not explicitly mention:

a control server, including a processor and associated with a traffic control system, receiving a registration of a vehicle; and

the control server registering the vehicle in the traffic control system in response to receiving the registration of the vehicle.

However Nguyen does teach:

a control server, including a processor and associated with a traffic control system, receiving a registration of a vehicle (**see at least col 3 lines 16-33; wherein the vehicles 150 and 160 are any vehicles that are being monitored by the vehicle monitor. They may be moving or stationary. The vehicle 150 includes a vehicle control subsystem 155 that controls the vehicle 150. The owner of the vehicle registers the information necessary for the monitoring and control of the vehicle. The registration may be performed via a law-enforcement agency (e.g., the department of motor vehicles) or a commercial private organization. The vehicle control subsystem 155 communicates with the traffic monitor 140 to send identification information and receive command to control the vehicle 150. The communication may be passive or active. A passive communication is one in which the driver of the vehicle 150 is not aware of the communication. An active communication is one in which the driver is aware of and may even participate in the communication. The vehicle 160 does not have a vehicle control subsystem but it is monitored by the vehicle monitor 140**); and

the control server registering the vehicle in the traffic control system in response to receiving the registration of the vehicle (**see at least col 3 lines 16-33; wherein the vehicles 150 and 160 are any vehicles that are being monitored by the**

vehicle monitor. They may be moving or stationary. The vehicle 150 includes a vehicle control subsystem 155 that controls the vehicle 150. The owner of the vehicle registers the information necessary for the monitoring and control of the vehicle. The registration may be performed via a law-enforcement agency (e.g., the department of motor vehicles) or a commercial private organization. The vehicle control subsystem 155 communicates with the traffic monitor 140 to send identification information and receive command to control the vehicle 150. The communication may be passive or active. A passive communication is one in which the driver of the vehicle 150 is not aware of the communication. An active communication is one in which the driver is aware of and may even participate in the communication. The vehicle 160 does not have a vehicle control subsystem but it is monitored by the vehicle monitor 140).

Therefore it would have been obvious for one of ordinary skill in the art before the effective filing data of the claimed invention to utilize the teachings as in Nguyen with the teachings as in Breed. The motivation for doing so would have been to have an effective method to monitor and/or control vehicles (col 1 lines 29-30).

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 message 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 control message 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 the second 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 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).

However Breed does not explicitly mention:

a registration module operable to:

receive a registration of a vehicle; and

register, in response to receiving the registration of the vehicle, the vehicle in the traffic control system.

However Nguyen does teach:

receive a registration of a vehicle (**see at least col 3 lines 16-33; wherein the vehicles 150 and 160 are any vehicles that are being monitored by the vehicle monitor. They may be moving or stationary. The vehicle 150 includes a vehicle control subsystem 155 that controls the vehicle 150. The owner of the vehicle registers the information necessary for the monitoring and control of the vehicle. The registration may be performed via a law-enforcement agency (e.g., the department of motor vehicles) or a commercial private organization. The vehicle control subsystem 155 communicates with the traffic monitor 140 to send identification information and receive command to control the vehicle 150. The communication may be passive or active. A passive communication is one in which the driver of the vehicle 150 is not aware of the communication. An active communication is one in which the driver is aware**

of and may even participate in the communication. The vehicle 160 does not have a vehicle control subsystem but it is monitored by the vehicle monitor 140); and

register, in response to receiving the registration of the vehicle, the vehicle in the traffic control system (**see at least col 3 lines 16-33; wherein the vehicles 150 and 160 are any vehicles that are being monitored by the vehicle monitor. They may be moving or stationary. The vehicle 150 includes a vehicle control subsystem 155 that controls the vehicle 150. The owner of the vehicle registers the information necessary for the monitoring and control of the vehicle. The registration may be performed via a law-enforcement agency (e.g., the department of motor vehicles) or a commercial private organization. The vehicle control subsystem 155 communicates with the traffic monitor 140 to send identification information and receive command to control the vehicle 150. The communication may be passive or active. A passive communication is one in which the driver of the vehicle 150 is not aware of the communication. An active communication is one in which the driver is aware of and may even participate in the communication. The vehicle 160 does not have a vehicle control subsystem but it is monitored by the vehicle monitor 140**).

Therefore it would have been obvious for one of ordinary skill in the art before the effective filing data of the claimed invention to utilize the teachings as in Nguyen with

the teachings as in Breed. The motivation for doing so would have been to have an effective method to monitor and/or control vehicles (col 1 lines 29-30).

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 control message 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 message 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 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)**.

However Breed does not explicitly mention:

instructions to receive a registration of a vehicle; and

instructions to register the vehicle in the traffic control system.

However Nguyen does teach:

instructions to receive a registration of a vehicle (**see at least col 3 lines 16-33; wherein the vehicles 150 and 160 are any vehicles that are being monitored by the vehicle monitor. They may be moving or stationary. The vehicle 150 includes a vehicle control subsystem 155 that controls the vehicle 150. The owner of the vehicle registers the information necessary for the monitoring and control of the vehicle. The registration may be performed via a law-enforcement agency (e.g., the department of motor vehicles) or a commercial private organization. The vehicle control subsystem 155 communicates with the traffic monitor 140 to send identification information and receive command to control the vehicle 150. The communication may be passive or active. A passive communication is one in which the driver of the vehicle 150 is not aware of the communication. An active communication is one in which the driver is aware of and may even participate in the communication. The vehicle 160 does not have a vehicle control subsystem but it is monitored by the vehicle monitor 140**); and

instructions to register the vehicle in the traffic control system (**see at least col 3 lines 16-33; wherein the vehicles 150 and 160 are any vehicles that are being monitored by the vehicle monitor. They may be moving or stationary. The vehicle 150 includes a vehicle control subsystem 155 that controls the vehicle 150. The owner of the vehicle registers the information necessary for the**

monitoring and control of the vehicle. The registration may be performed via a law-enforcement agency (e.g., the department of motor vehicles) or a commercial private organization. The vehicle control subsystem 155 communicates with the traffic monitor 140 to send identification information and receive command to control the vehicle 150. The communication may be passive or active. A passive communication is one in which the driver of the vehicle 150 is not aware of the communication. An active communication is one in which the driver is aware of and may even participate in the communication. The vehicle 160 does not have a vehicle control subsystem but it is monitored by the vehicle monitor 140).

Therefore it would have been obvious for one of ordinary skill in the art before the effective filing data of the claimed invention to utilize the teachings as in Nguyen with the teachings as in Breed. The motivation for doing so would have been to have an effective method to monitor and/or control vehicles (col 1 lines 29-30).

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 control message 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 message 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

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to 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-7,333,012	02-2008	Nguyen, Martin Khang	340/539.1
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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NOTICE OF ALLOWANCE AND FEE(S) DUE

111285 7590 12/19/2014

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

DATE MAILED: 12/19/2014

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,312	04/15/2014	Christopher P. Ricci	6583-585	5072

TITLE OF INVENTION: VEHICLE-BASED MULTIMODE DISCOVERY

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	03/19/2015

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

111285 7590 12/19/2014
Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,312	04/15/2014	Christopher P. Ricci	6583-585	5072

TITLE OF INVENTION: VEHICLE-BASED MULTIMODE DISCOVERY

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	03/19/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
DUNN, ALEX C	3663	701-036000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.
1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. The following fee(s) are submitted:
- ❑ Issue Fee
- ❑ Publication Fee (No small entity discount permitted)
- ❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ❑ A check is enclosed.
- ❑ Payment by credit card. Form PTO-2038 is attached.
- ❑ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ❑ Applicant certifying micro entity status. See 37 CFR 1.29
  NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ❑ Applicant asserting small entity status. See 37 CFR 1.27
  NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ❑ Applicant changing to regular undiscounted fee status.
  NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,312	04/15/2014	Christopher P. Ricci	6583-585	5072

111285 7590 12/19/2014

Sheridan Ross P.C.
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Denver, CO 80202

EXAMINER	
DUNN, ALEX C	

ART UNIT	PAPER NUMBER
3663	

DATE MAILED: 12/19/2014

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 14/253,312	Applicant(s) RICCI ET AL.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *4/15/2014*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *1-21*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov .
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
5. ☐ Examiner's Amendment/Comment
6. ☒ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance: Claims 1 – 21 are allowed for the following reasons.

3. The prior art of record fails to teach - applying, by the device discovery daemon, at least the following rules: (C1) when the computational device is located within the predetermined area and/or zone of the vehicle, permitting the computational device to access or attempt to access the vehicle network and/or communication subsystem; and (C2) when the computational device is not located within the predetermined area and/or zone of the vehicle, not permitting the computational device to access or attempt to access the vehicle network and/or communication subsystem.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to form 892 for cited references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX C. DUNN whose telephone number is (571)270-5323. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Tarcza can be reached on 26979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ALEX C. DUNN
Examiner, Art Unit 3663

/THOMAS TARCZA/

Supervisory Patent Examiner, Art Unit 3663

Notice of References Cited	Application/Control No. 14/253,312	Applicant(s)/Patent Under Reexamination RICCI ET AL.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2002/0009978 A1	01-2002	Dukach et al.	455/99
*	B	US-2002/0065046 A1	05-2002	Mankins et al.	455/59
*	C	US-2004/0036622 A1	02-2004	Dukach et al.	340/691.6
*	D	US-2009/0138336 A1	05-2009	Ashley et al.	705/10
*	E	US-2010/0169432 A1	07-2010	Santori et al.	709/206
*	F	US-2010/0235891 A1	09-2010	Oglesbee et al.	726/5
*	G	US-2010/0305807 A1	12-2010	Basir et al.	701/33
*	H	US-8,350,721 B2	01-2013	Carr, Jeffrey Thomas	340/903
*	I	US-8,660,735 B2	02-2014	Tengler et al.	701/24
*	J	US-8,730,033 B2	05-2014	Yarnold et al.	340/539.13
*	K	US-8,793,034 B2	07-2014	Ricci, Christopher P.	701/1
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,334	04/15/2014	Christopher P. Ricci	6583-586	4129

111285 7590 01/27/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
RABOVIANSKI, JIVKA A

ART UNIT	PAPER NUMBER
2426	

NOTIFICATION DATE	DELIVERY MODE
01/27/2015	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,334	Applicant(s) RICCI ET AL.	
	Examiner JIVKA RABOVIANSKI	Art Unit 2426	AIA (First Inventor to File) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *04/15/2014*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-22* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-22* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *04/15/2014* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

Claim Objections

2. Claims 18 – 22 are objected to because of the following informalities: Claims depend on claim 17, but cite different preamble than claim 17: "computer readable medium". Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of 35 U.S.C. 112(b):

> (b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1, 5, 11, 12, 13, 17, 18 and 19 are rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention. Claim 1 cites: "selected content", "the media controller subsystem", "the distributed network control server", "the media server" and "the computation device". It is not clear from the claim what the references of these citations are. Claim 5 cites: "the filtered and/or permitted media".

Claim 11 cites: "the vehicle occupant requesting media content", "the requested media content" and "the filtered and/or permitted media". Claim 12 cites: "the media processing board". Claim 13 cites: "source of the content". Claim 17 cites: "the vehicle occupant requesting media content", "the requested media content" and "the filtered and/or permitted media". Claim 18 cites: "the media processing board". Claim 19 cites: "source of the content". It is not clear from the claim what the references of these citations are.

5. Claims 1, 5, 11, 12, 13, 17, 18 and 19 recites the limitation "the media controller subsystem", "the distributed network control server", "the media server", "the computation device", "the filtered and/or permitted media", "the vehicle occupant requesting media content", "the requested media content", "the media processing board" and "source of the content". There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(2) the claimed invention was described in a patent issued under section 151, or in an application for patent published or deemed published under section 122(b), in which the patent or application, as the case may be, names another

inventor and was effectively filed before the effective filing date of the claimed invention.

7. Claims 1 - 4 are rejected under 35 U.S.C. 102(a)(2) as being anticipated by Kim (USPPGPubN 20130055096, referred to as Kim).

Regarding claim 1:

Kim anticipates a microprocessor executable distributed network control server operable to access selected content on a public network external to a vehicle comprising the media controller subsystem, the distributed network control server having at least one of an assigned Internet Protocol address and global unicast address (Kim, the content provided by the server external from the vehicle wherein IP addresses are assigned to the mobile terminal in the vehicle; a wireless local area network (WLAN), Wi-Fi, wireless broadband (WiBro); [0055], [0069], [0093], [0126], [0170], Fig. 3);

Kim anticipates a microprocessor executable media server operable to receive requests for content from a vehicle occupant and provide requested content to a portable computational device associated with the vehicle occupant, the media server having a contactable electronic address on a local area network maintained by the vehicle (Kim, Figs. 4 and 6; navigation session receives position information of the peripheral vehicle from the terminal mounted to the peripheral vehicle, and receives position information from the mobile terminal held by the passerby, [0115]);

Kim anticipates microprocessor readable memory to store content (Kim, Fig. 1/item 160, [0092]); and

Kim anticipates a microprocessor executable virtual network console operable to provide the computational device with remote access to the media server (Kim, Fig. 3).

Regarding claim 2:

Kim anticipates The media controller subsystem of claim 15, wherein the distributed network control server, media server, and virtual network console are on a common media processing board mounted on the vehicle and wherein the portable computational device is discrete from, remote from, and in wireless communication with the media processing board (Kim, the mobile terminal 100 and the image display apparatus 200 mounted in a vehicle are connected to each other in a wireless manner such that they can perform data communication, [0145]).

Regarding claim 3:

Kim anticipates the media controller subsystem of claim 16, wherein the virtual network console operates in accordance with the Remote Frame Buffer protocol on top of the TCP/IP suite of protocols, thereby causing the remote computational device to appear to a computer mounted in the vehicle as if the remote computational device is part of the on board vehicle control system comprising the computer (Kim, virtual network computing

(VNC) manner using a remote frame buffer (RFB) protocol, [0057], IP protocol, [0170], Figs. 1 and 3).

Regarding claim 4:

Kim anticipates media controller of claim 17, wherein the vehicle occupant, through the remote computational device, can control one or more of the following media presentation features of a screen and sound system mounted on the vehicle: volume, contrast, resolution, and channel selection (Kim, providing a user interface by which the user can control the image display apparatus 200 mounted in a vehicle according to the screen information: contrast and resolution, [0107], [0140]; controlling the tuner for receiving channels, [0109], voice control, [0086], [0101]).

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 5 - 22 are rejected under 35 U.S.C. 103 as being unpatentable over Kim (USPPGPubN 20130055096, referred to as Kim), and further in view of Hulet (USPPN 8613385, referred to as Hulet).

Regarding claims 5, 11 and 17:

Kim teaches determining, by a microprocessor executable media server, at least one of an identity of a vehicle occupant requesting media content, an identity of a portable computational device associated with the vehicle occupant, and a spatial location of the vehicle occupant and/or remote computational device (Kim, the device are identified to be set for communication as shown in Fig. 5, [0144]; navigation session receives position information of the peripheral vehicle from the terminal mounted to the peripheral vehicle, and receives position information from the mobile terminal held by the passerby, [0115]);

Kim does not specifically teach based on the at least one of the identity of the vehicle occupant requesting media content, the identity of a portable computational device associated with the vehicle occupant, and the spatial location of the vehicle occupant and/or remote computational device, applying, by the microprocessor executable media server, at least one of a filter and restriction to the requested media content to form filtered and/or permitted media content to be provided to the portable computational device. However, Hulet teaches personal information is exchanged to allow the media player to determine what content is permitted to be accessed, C 25: L 33 – 43. It would have been obvious to one of ordinary skill in the art

at the time the invention was made to incorporate Hulet with the teaching of allow permitted media to be distributed into the invention of Kim for the purpose of preventing unappropriated media to be watched by people.

Kim in view of Hulet teaches providing, by a microprocessor executable media server, the filtered and/or permitted media content to the portable computational device (Hulet, granting permission and providing the content to the media player 302, Fig. 3, C 13: L 11 – 35, C 25: L 33 – 43).

Regarding claims 6, 12 and 18:

Kim in view of Hulet teaches the portable computational device is discrete from, remote from, and in wireless communication with the media processing board, wherein the at least one of a filter and restriction is applied to a media request of the vehicle occupant before the requested media content is accessed and wherein the at least one of a filter and restriction is one or more of an age-related content filter and/or restriction, a vehicle occupant seating location filter and/or restriction, and a privacy filter and/or restriction (Hulet, permissions for content can be inherited based on the location class structure, for example, the parent class location of "vehicle type" may have an associated "aircraft" value that permits access to some content on the media player 302. A class location of "coach" for the compartment type can inherit permissions from its aircraft parent and also

grant permission to additional content on the media player 302, based on the siting location, Fig. 3, C 13: L 11 – 35).

Regarding claims 7, 13 and 19:

Kim in view of Hulet teaches the at least one of a filter and restriction bans a type of content requested, bans a source of the content, redirects the request to a different source of the content, and/or limits the vehicle occupant to content from an approved source (Hulet, the media player is used in a number of different locations, and with different content permissions based on location-dependent information, C 9: L 47 – 50, the restriction depends on the type of the content, C 13: L 11 – 53).

Regarding claims 8, 14 and 20:

Kim in view of Hulet teaches the portable computational device is discrete from, remote from, and in wireless communication with the media processing board, wherein the at least one of a filter and restriction is applied after the requested media content is accessed and wherein the at least one of a filter and restriction is one or more of an age-related content filter and/or restriction, a vehicle occupant seating location filter and/or restriction, and a privacy filter and/or restriction (Hulet, based on the siting location, Fig. 3, C 13: L 11 – 35; content restrictions or permissions may be inherited from a parent location type, Fig. 3, C 13: L 11 – 35).

Regarding claims 9, 15 and 21:

Kim in view of Hulet teaches a menu displayed to each occupant enables access to media content and wherein the at least one of a filter and restriction determines a content and/or configuration of the menu presented to each occupant (Hulet, determine which content, applications, information and functions should be displayed in a menu and/or user interface, C 13: L 45 – 56).

Regarding claims 10, 16 and 22:

Kim teaches application of the at least one of a filter and restriction is based on an electronic address of the portable computational device on a network of the vehicle (Hulet, the user executes application using e-mail, [0051]).

Contact

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jivka Rabovianski whose telephone number is (571) 270-1845. The examiner can normally be reached on M-F 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, NASSER GOODARZI can be reached on (571)272-4195. Customer Service can be reached at (571) 272-2600. The fax number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/JIVKA RABOVIANSKI/

Primary Examiner, Art Unit 2426

January 21, 2015

Notice of References Cited	Application/Control No. 14/253,334	Applicant(s)/Patent Under Reexamination RICCI ET AL.	
	Examiner JIVKA RABOVIANSKI	Art Unit 2426	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2013/0055096 A1	02-2013	KIM et al.	715/738
*	B	US-8,613,385 B1	12-2013	Hulet et al.	235/375
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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.

UNITED STATES PATENT AND TRADEMARK OFFICE

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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. _____

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,371	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

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.
14/253,416	04/15/2014	Christopher P. Ricci	6583-595	8775

111285 7590 12/01/2014

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
12/01/2014	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,416	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	AIA (First Inventor to File) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *4/15/2014*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-7,11-14 and 16-19* is/are rejected.

8)☒ Claim(s) *8-10,15 and 20* is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *4/15/2014* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

Claim Rejections - 35 USC § 102

2. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

4. Claims 1, 3 – 4, 6 – 7, 11, 13 – 14, 16 and 18 – 19 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Tan (20120109451).

5. (Claims 1, 11 and 16): Tan discloses a method for controlling a user interface in a conveyance, comprising: a vehicle control system, including a processor, providing content on the user interface (fig. 2; [0023]); the vehicle control system determining if a user within the conveyance should be prohibited from viewing the content (fig. 2; [0028]); the vehicle control system determining a location of the prohibited user ([0008]); and the vehicle control system modifying a display of the content to prevent viewing by the prohibited user (fig. 8; [0005]; [0038]; [0040]).

6. (Claims 3 - 4, 13 and 18): Tan discloses a method for controlling a user interface in a conveyance, wherein the prohibited user is one of a driver, another passenger, or a child passenger (figs. 2 and 9; [0045]).

7. (Claims 6 - 7, 14 and 19): Tan discloses a method for controlling a user interface in a conveyance, wherein the display is modified by one of at least a portion of the user interface is blacked out when the prohibited user looks at the user interface (figs. 6 – 7; [0037]; [0047 – 0048]).

Claim Rejections - 35 USC § 103

7. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

8. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 2, 5, 12 and 17 are rejected under 35 U.S.C. 103 as being unpatentable over Tan (20120109451).

11. (Claims 2, 12 and 17): Tan teaches enabling the viewing of Internet content on a display or a mobile device ([0031]). It would have been obvious for part of the Internet content to be a movie, as a very common offering of most content providers today.

12. (Claim 5): Tan teaches an occupant sensor as part of his invention (fig. 2; [0046]). It would have been obvious to determine if a passenger is a child, as is very common for other vehicle safety systems such as air bag deployment.

Allowable Subject Matter

13. Claims 8 – 10, 15 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to form 892 for cited references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX C. DUNN whose telephone number is (571)270-5323. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Tarcza can be reached on 26979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ALEX C. DUNN
Examiner, Art Unit 3663

/THOMAS TARCZA/
Supervisory Patent Examiner, Art Unit 3663

Notice of References Cited	Application/Control No. 14/253,416	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 1 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-7,020,544 B2	03-2006	Shinada et al.	701/1
*	B	US-7,096,431 B2	08-2006	Tambata et al.	715/834
*	C	US-2009/0079705 A1	03-2009	Sizelove et al.	345/173
*	D	US-7,796,190 B2	09-2010	Basso et al.	348/445
*	E	US-8,060,631 B2	11-2011	Collart et al.	709/229
*	F	US-2012/0109451 A1	05-2012	TAN, Adrian	701/36
*	G	US-8,334,847 B2	12-2012	Tomkins, Steve	345/173
*	H	US-8,346,233 B2	01-2013	Aaron et al.	455/418
*	I	US-2013/0080371 A1	03-2013	Harber et al.	706/50
*	J	US-8,447,598 B2	05-2013	Chutorash et al.	704/231
*	K	US-8,442,389 B2	05-2013	Kashima et al.	386/343
*	L	US-8,497,842 B2	07-2013	Tomkins et al.	345/173
*	M	US-8,547,340 B2	10-2013	Sizelove et al.	345/173

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Notice of References Cited	Application/Control No. 14/253,416	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner ALEX C. DUNN	Art Unit 3663	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-8,671,068 B2	03-2014	Harber et al.	706/50
*	B	US-8,782,262 B2	07-2014	Collart et al.	709/229
*	C	US-8,812,171 B2	08-2014	Filev et al.	701/1
*	D	US-8,825,031 B2	09-2014	Aaron et al.	455/418
*	E	US-8,862,317 B2	10-2014	Shin et al.	701/36
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
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	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

UNITED STATES PATENT AND TRADEMARK OFFICE

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NOTICE OF ALLOWANCE AND FEE(S) DUE

111285 7590 03/18/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

DATE MAILED: 03/18/2015

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,416	04/15/2014	Christopher P. Ricci	6583-595	8775

TITLE OF INVENTION: UNIVERSAL VEHICLE VOICE COMMAND SYSTEM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	06/18/2015

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

111285 7590 03/18/2015
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.
14/253,416	04/15/2014	Christopher P. Ricci	6583-595	8775

TITLE OF INVENTION: UNIVERSAL VEHICLE VOICE COMMAND SYSTEM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	06/18/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
DUNN, ALEX C	3663	701-036000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.
1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. The following fee(s) are submitted:
- ❑ Issue Fee
- ❑ Publication Fee (No small entity discount permitted)
- ❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ❑ A check is enclosed.
- ❑ Payment by credit card. Form PTO-2038 is attached.
- ❑ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ❑ Applicant certifying micro entity status. See 37 CFR 1.29 — NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ❑ Applicant asserting small entity status. See 37 CFR 1.27 — NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ❑ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,416	04/15/2014	Christopher P. Ricci	6583-595	8775

111285 7590 03/18/2015

Sheridan Ross P.C.
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER	
DUNN, ALEX C	

ART UNIT	PAPER NUMBER
3663	

DATE MAILED: 03/18/2015

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. 14/253,416	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.