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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/253,393	04/15/2014	Christopher P. Ricci	6583-589	9902

111285 7590 09/15/2015

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

EXAMINER
CASTRO, PAUL A

ART UNIT	PAPER NUMBER
3662	

NOTIFICATION DATE	DELIVERY MODE
09/15/2015	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. 14/253,393	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner PAUL CASTRO	Art Unit 3662	AIA (First Inventor to File) Status Yes

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

Period for Reply

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

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

Status

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

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

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

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

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

Disposition of Claims*

5)☒ Claim(s) *1-21* 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) *1-21* 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, 05/08/2015*.

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.

Information Disclosure Statement

2. Applicant has submitted an Information Disclosure Statement containing more than 50 references. Due to the voluminous set of documents submitted, applicant is requested under 37 CFR 1.105 to provide an indication of which references are considered to be most highly pertinent to the claimed invention. The 8 page information disclosure statement (IDS) filed on May 5, 2015 includes over 200 U. S. Patents and non-patent documents. This IDS is unusually large. The 8 page information disclosure statement (IDS) filed on November 25, 2014 includes over 200 U. S. Patents and non-patent documents. This IDS is unusually large.

The IDS and the information referred to therein has been placed in the file but not considered.

Significantly, an applicant's duty of disclosure of material and information is not satisfied by presenting a patent examiner with "a mountain of largely irrelevant [material] from which he is *presumed* to have been able, with his expertise and with adequate time, to have found the critical [material]. It ignores the real world conditions under which examiners work."

If applicant instead indicates that all the submitted documents are most highly pertinent, then applicant is requested to provide an explanation of the pertinence of every single cited reference in the Information Disclosure.

The applicants are requested to identify the relevant references including relevant sections highlighted in each of the relevant references, since they are believed to be the most

knowledgeable about the content of the information included in the IDS submitted.

This information is necessary to evaluate to the large volume of prior art submitted.

Claim Objections

3. Claim 1 is objected to because of the following informalities: Wherein claim 1 states "when the collected one or metrics is not normal or abnormal,..." can be misleading. The Examiner believes the Applicant is trying to reiterate some type of fault in the system to be detected. However the flow of the language could be interpreted as not normal and not abnormal which the Examiner does not believe to be the case (and if it is then it would be a 112 issue). Better clarity for the claim language might be, "or metrics is abnormal or not normal" . Appropriate correction is required.

4. Claims 7, 13, and 19 are objected to for the same reasons presented above. Appropriate correction is required.

Claim Rejections - 35 USC § 112

5. 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.

6. Claims 1-21are 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.

7. Claims 1-4, 7-9, 13-16, and 19-21 recite the limitation "and/or" and renders the claim indefinite. For examining purposes "and/or" is read as "or". (See Stunk and White for interpretation of "and/or".)

8. All other claims are rejected by dependency.

9. Claims 1, 7, 13, and 19 recite the limitation "one or metrics" multiple times. There is insufficient antecedent basis for this limitation in the claim. The Examiner believes the recitation should read "one or more metrics...". Appropriate correction is required.

10. Claims 2, 8, 14, and 20-21 recite the limitation "the set..." and "the two sets...". There is insufficient antecedent basis for these limitations in the claim. Appropriate correction is required.

11. Claim 19 recites the limitation of "wherein" (twice) in line 1, "and/or" in lines 2 and 3, "whereby" in line 3, and "wherein" (twice) in line 4 is unclear. The extensive use and combination of such language within a beginning of the claim becomes difficult to interpret what the Applicant is trying to encompass by the claim. What combination of elements is being claimed and how? Such language renders the claim indefinite. The Examiner cannot make any further rejection to the claim due to the lack of clarity of the elements. Appropriate correction is required.

12. Regarding claims 3, 9, 15, 20-21, the phrase "such as" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

Claim Rejections - 35 USC § 101

13. 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.

14. Claims 1, 7, 13, and 19 are rejected under 35 U.S.C. 101 because the claimed invention is directed to a judicial exception (i.e., a law of nature, a natural phenomenon, or an abstract idea) without significantly more. Claim(s) 1, 7, 13, and 19 are directed to steps of organizing human activities with additional generic computer elements. The claims recite a microprocessor and computer control module. These elements are not sufficient to amount to significantly more than the judicial exception because generically recited computer elements do not add a meaningful limitation to the abstract idea because they would be routine in any computer implementation.

Claims 2, 4, 8, 10, 14, and 16 are rejected under 35 U.S.C. 101 because they continue to lack an element that amounts to significantly more than the abstract idea itself. The claims are no more than a field of use.

Claim Rejections - 35 USC § 103

15. 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.

16. 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.

17. Claims 1-21 are rejected under 35 U.S.C. 103 as being unpatentable over US 20030065432 ("Shuman") in further view of US 20080129475 ("Breed").

As per claim 1 a method, comprising:

providing, in a vehicle, first and second operating systems executing on a common microprocessor, wherein the first operating system comprises one or more applications performing a critical vehicle task, function, and/or operation and the second operating system comprises one or more applications performing an infotainment task, function, and/or operation [¶7];

collecting, by a computer control module, one or more metrics regarding an operation of the first and/or second operating system and/or computer and/or a network in communication with the computer [Fig. 2-4];

determining, by the computer control module, whether the collected one or metrics are normal and/or abnormal [¶57-58, 77, 216] ; and

when the collected one or metrics is not normal or abnormal, giving less priority to the second operating system but not the first operating system [¶51, 58].

Shuman does not disclose shutting down.

Breed does disclose shutting down [¶949].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Shuman to shut down a component as taught by Breed for an improved method of obtaining information about or relating to a vehicle or vehicular component system or subsystem [¶23].

As per claim 7 Shuman discloses in a vehicle, first and second operating systems execute on a common microprocessor, the first operating system comprising one or more applications performing a critical vehicle task, function, and/or operation and the second operating system comprising one or more applications performing an infotainment task, function, and/or operation, a tangible and non-transient computer readable medium comprising microprocessor executable and readable instructions that, when executed by the microprocessor, perform operations, comprising: collecting, by a computer control module, one or more metrics regarding an operation of the first and/or second operating system and/or a network in communication with the computer [¶7, Fig. 2-4];

determining, by the computer control module, whether the collected one or metrics of one or more of the first and/or second operating system and/or a network in communication with the computer are normal and/or abnormal [¶57-58, 77, 216]; and

applying one or more of the following rules:

when the collected one or metrics associated with the first operating system is not normal or abnormal, prioritizing the first and second operating systems [¶51, 58];

when the collected one or metrics associated with the second operating system is not normal or abnormal, shutting down the second, but not the first, operating system; and

when the collected one or metrics associated with the network is not normal or abnormal, giving less priority to the second, but not the first, operating system [¶51, 58].

Shuman does not disclose shutting down.

Breed does disclose shutting down [¶949].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Shuman to shut down a component as taught by Breed for an improved method of obtaining information about or relating to a vehicle or vehicular component system or subsystem [¶23].

As per claim 13 Shuman discloses a vehicle, comprising:

a computer executing first and second operating systems executing on a common microprocessor, wherein the first operating system comprises one or more applications performing a critical vehicle task, function, and/or operation and the second operating system comprises one or more applications performing an infotainment task, function, and/or operation [¶7, Fig. 2-3];

and a computer control module operable to collect one or more metrics regarding an operation of the first and/or second operating system and/or computer and/or a network in communication with the computer, determine whether the collected one or metrics are normal and/or abnormal, and when the collected one or metrics is not normal or abnormal, giving less priority to the second operating system but not the first operating system [¶51, 57-58, 77, 216].

Breed does disclose shutting down [¶949].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Shuman to shut down a component as taught by Breed for an improved method of obtaining information about or relating to a vehicle or vehicular component system or subsystem [¶23].

As per claim 19 Shuman discloses a vehicle, comprising:

a first computer having a first operating system executing one or more applications performing a critical vehicle task, function, and/or operation [¶7]; and

a second computer having a different second operating system executing one or more applications performing at least one of an infotainment task, function, and/or operation and less critical task, function, and/or operation, wherein at least one of the following is true [¶7]:

(a) a computer control module collects one or more metrics regarding an operation of the first and/or second computers and/or a network in communication with the first and/or second computer, determines whether the collected one or metrics regarding an operation of the first and/or second computers and/or network are normal and/or abnormal, and apply one or more of the following rules[¶51, 57-58, 77, 216]:

when the collected one or metrics associated with the first operating system is not normal or abnormal, shutting down the first and second operating systems;

when the collected one or metrics associated with the second operating system is not normal or abnormal, shutting down the second, but not the first, operating system; and

when the collected one or metrics associated with the network is not normal or abnormal, giving less priority to the second, but not the first, operating system [¶51, 58]; and

(b) the first and second computers are configured to be incapable of communicating with each other.

Breed does disclose shutting down [¶949].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Shuman to shut down a component as taught by Breed for an improved method of obtaining information about or relating to a vehicle or vehicular component system or subsystem [¶23].

As per claims 2, 8, and 14 Shuman discloses further wherein each member of the set of critical vehicle tasks, functions, and/or operations is different from each member of the set of infotainment tasks, functions, and/or operations, whereby the union of the two sets is null [¶7].

As per claims 3 and 15 Shuman discloses further wherein the critical task, function or operation is one or more of monitoring, controlling, and/or operating the ECU, TCU, door settings, window settings, and/or blind spot monitor, monitoring, controlling, and/or operating the safety equipment, monitoring and/or controlling certain critical sensors such as the power source controller and energy output sensor, engine temperature, oil pressure sensing, hydraulic pressure sensors, sensors for headlight and other lights, vehicle control system sensors, and/or steering/torque sensor, controlling the operation of the engine, head light control unit, power steering, display panel, switch state control unit, power control unit, and/or brake control unit,

and/or issuing alerts to a user and/or remote monitoring entity of potential problems with a vehicle operation [Fig. 4].

As per claims 4 and 16 Shuman discloses further wherein the infotainment task, function or operation is one or more of receiving, processing, and/or providing media and/or multimedia content [¶7].

As per claims 5, 11, and 17 Shuman discloses further wherein the first operating system is processed by a first virtual machine (memory) and the second operating system is processed by a second virtual machine (memory) and wherein the computer control module is in a hypervisor module (computing architecture) [¶7, 131, Fig. 2-3].

Shuman does not disclose simulated by a virtual machine.

Breed does disclose simulated by a virtual machine [¶320].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Shuman to include the teachings of Breed for an improved method of obtaining information about or relating to a vehicle or vehicular component system or subsystem [¶23].

As per claims 6, 12, and 18 Shuman discloses further wherein the first and second operating systems concurrently and independently run on a common system [¶7].

Shuman does not disclose kernel however kernels are well known operators for computer systems to function. It would have been obvious to one of ordinary skill in the art at the time the invention was made to understand Shuman's system would have common kernels to function. The Examiner will refer to US20070067614 ("Berry") [¶34, Fig. 3] as a teaching reference for a multi-operating system sharing a common kernel.

As per claim 9 Shuman discloses further wherein the critical task, function or operation is one or more of monitoring, controlling, and/or operating the ECU, TCU, door settings, window settings, and/or blind spot monitor, monitoring, controlling, and/or operating the safety equipment, monitoring and/or controlling certain critical sensors such as the power source controller and energy output sensor, engine temperature, oil pressure sensing, hydraulic pressure sensors, sensors for headlight and other lights, vehicle control system sensors, and/or steering/torque sensor, controlling the operation of the engine, head light control unit, power steering, display panel, switch state control unit, power control unit, and/or brake control unit, and/or issuing alerts to a user and/or remote monitoring entity of potential problems with a vehicle operation and wherein the infotainment task, function or operation is one or more of receiving, processing, and/or providing media and/or multimedia content [¶7, Fig. 2-4].

As per claim 10 Shuman discloses further wherein a first requirement applied to the first operating system to determine abnormal operation is different from a second requirement applied to the second operating system to determine abnormal operation [¶7].

As per claim 21 Shuman discloses further wherein (b) is true, wherein each member of the set of critical vehicle tasks, functions, and/or operations is different from each member of the set of infotainment tasks, functions, and/or operations, whereby the union of the two sets is null and wherein all of the rules are applied, wherein the critical task, function or operation is one or more of monitoring, controlling, and/or operating the ECU, TCU, door settings, window settings, and/or blind spot monitor, monitoring, controlling, and/or operating the safety

equipment, monitoring and/or controlling certain critical sensors such as the power source controller and energy output sensor, engine temperature, oil pressure sensing, hydraulic pressure sensors, sensors for headlight and other lights, vehicle control system sensors, and/or steering/torque sensor, controlling the operation of the engine, head light control unit, power steering, display panel, switch state control unit, power control unit, and/or brake control unit, and/or issuing alerts to a user and/or remote monitoring entity of potential problems with a vehicle operation, and wherein the infotainment task, function or operation is one or more of receiving, processing, and/or providing media and/or multimedia content [¶7, Fig. 2-4].

Conclusion

18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PAUL CASTRO whose telephone number is (571)272-4836. The examiner can normally be reached on Monday-Thursday 8a.m.-4p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Algahaim Helal 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.

/P. C./
Examiner, Art Unit 3662

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

Notice of References Cited	Application/Control No. 14/253,393	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner PAUL CASTRO	Art Unit 3662	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-2003/0065432 A1	04-2003	Shuman, Valerie	G08G1/096888	701/48
*	B	US-2008/0129475 A1	06-2008	Breed; David S.	G07C5/008	340/438
*	C	US-2007/0067614 A1	03-2007	Berry; Robert W. JR.	G06F8/60	713/1
*	D	US-2012/0109446 A1	05-2012	YOUSEFI; NARIMAN	H04N7/183	701/29.3
*	E	US-2004/0070920 A1	04-2004	Flueli, Adolf	G06F9/4411	361/500
	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	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	Strunk Jr.. W, White. E.B. The Elements of Style. 3rd ed. New York, Macmillan Publishing Co.., Inc., 1979. Pp. 40 PE1408.S772
	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.
14/253,393	04/15/2014	Christopher P. Ricci	8283-589	9902

111285 7590 01/15/2016

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EXAMINER
CASTRO, PAUL A

ART UNIT	PAPER NUMBER
3662	

NOTIFICATION DATE	DELIVERY MODE
01/15/2016	ELECTRONIC

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flexpatents@sheridanross.com
edocket@sheridanross.com

Office Action Summary	Application No. 14/253,393	Applicant(s) RICCI, CHRISTOPHER P.	
	Examiner PAUL CASTRO	Art Unit 3662	AIA (First Inventor to File) Status Yes

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Period for Reply

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- 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 *12/08/2015*.

☐ 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) *1,2,4-10,12-17,19 and 22-25* 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) *1,2,4-10,12-17,19 and 22-25* 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.

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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

This action is in response to the amendment filed on 12/08/2015.

Claims 1-2, 4-10, 12-17, 19, and 22-25 are examined.

Claims 1, 2, 4, 7-9, 13-16, and 19 have been amended.

Claims 3, 11, 18, 20 and 21 have been canceled.

Claims 22-25 are new.

Response to Arguments

1. Applicant's arguments filed 12/08/2015 have been fully considered but they are not persuasive.

Information Disclosure Statement

IDS has partially been considered. Due to the large amount documents, more time will be needed to finish evaluating the documents. Documents still under review will be currently crossed out, but are in the process of being considered. Once evaluation is complete a new 1449 will be submitted with all appropriate considerations.

Objection

This objection is withdrawn.

112 Rejection

This rejection is withdrawn.

101 Rejection

This rejection is withdrawn.

103 Rejection

Applicant's arguments with respect to claims 1-21 have been considered but are moot because the arguments do not apply to any of the references being used in the current rejection.

Claim Objections

3. Claim 1 is objected to because of the following informalities: Wherein line 14 states "wherein the critical task" should be read as "wherein the critical vehicle task". If this is the correct reference appropriate correction is required.

4. Claim 19 line 26 is objected to for the same reasons presented above. Appropriate correction is required.

5. Claims 1, 7, 13, and 19 are objected to for the following informalities: Where the claims state "abnormal or not normal" has become a little convoluted in addition to the amended claims. However similar language is found in the specification which would not make it improper to use together but for purposes of simplicity and clarity, the Examiner recommends stating "abnormal" or "not normal", as stating just one term would be sufficient for purposes of the limitation. The Examiner leaves that up to the Applicant to decide.

Claim Rejections - 35 USC § 112

6. 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.

7. Claims 22-25 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.

Wherein the claims state in line 4, "system is shut down and for the user or the position in the vehicle" is unclear. The Examiner does not understand what the limitation is trying to encompass. There is no further rejection made due to lack of clarity.

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 1-2, 4-10, 12-17, and 19 are rejected under 35 U.S.C. 103 as being unpatentable over US 20030065432 ("Shuman") in view of US 20080129475 ("Breed") in further view of US 20100222939 ("Namburu").

As per claim 1 a method, comprising:

providing, in a vehicle, first and second operating systems executing on a common microprocessor, wherein the first operating system comprises one or more applications performing a critical vehicle task, function, or operation and the second operating system comprises one or more applications performing an infotainment task, function, or operation [¶7];

collecting, by a computer control module, one or more metrics regarding an operation of the first or second operating system or computer or a network in communication with the computer [Fig. 2-4];

determining, by the computer control module, whether the collected one or metrics are normal or abnormal [¶57-58, 77, 216];

when the collected one or more metrics is abnormal or not normal, giving less priority to the second operating system but not the first operating system [¶51, 58];

wherein the critical task, function or operation is one or more of monitoring, controlling, or operating the ECU, TCU, door settings, window settings, or blind spot monitor, monitoring, controlling, or operating the safety equipment, monitoring or controlling certain critical sensors,

controlling the operation of the engine, head light control unit, power steering, display panel, switch state control unit, power control unit, or brake control unit, or issuing alerts to a user or remote monitoring entity of potential problems with a vehicle operation [Fig. 4]

wherein the critical sensors include at least one of a power source controller and energy output sensor, engine temperature, oil pressure sensing, hydraulic pressure sensors, sensors for headlight and other lights, vehicle control system sensors, or steering/torque sensor [Fig. 4];

wherein a first metric of the one or more metrics is an age of the user [¶84].

Shuman does not disclose shutting down and if the age of the user is below a predetermined threshold.

Breed does disclose shutting down [¶949] and determining the age of the user for determining allowed functions of the system [¶239].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Shuman to shut down a component as taught by Breed for an improved method of obtaining information about or relating to a vehicle or vehicular component system or subsystem [¶23].

Shuman in view of Breed does not disclose below a threshold.

Namburu does disclose below a threshold (parental setting) for a system to function [¶59-60].

It would have been obvious to one of ordinary skill in the art before the effective filing date the invention was made to modify Shuman in view of Breed to use age of a user as part of a control scheme as taught by Namburu to allow a user to manage the operation of components in the system [¶2].

As per claim 7 Shuman discloses in a vehicle, first and second operating systems execute on a common microprocessor, the first operating system comprising one or more applications performing a critical vehicle task, function, or operation and the second operating system comprising one or more applications performing an infotainment task, function, or operation, a tangible and non-transient computer readable medium comprising microprocessor executable and readable instructions that, when executed by the microprocessor, perform operations, comprising: collecting, by a computer control module, one or more metrics regarding an operation of the first or second operating system or a network in communication with the computer [¶7, Fig. 2-4];

determining, by the computer control module, whether the collected one or more metrics of one or more of the first or second operating system or a network in communication with the computer are normal or abnormal [¶57-58, 77, 216]; and

applying one or more of the following rules:

when the collected one or more metrics associated with the first operating system is abnormal or not normal, prioritizing the first and second operating systems [¶51, 58];

when the collected one or more metrics associated with the second operating system is not abnormal or not normal, giving less priority to the second but not the first, operating system [¶51, 58];

when the collected one or more metrics associated with the network is abnormal or not normal, giving less priority to the second, but not the first, operating system [¶51, 58]; and

wherein the first operating system is associated by a first virtual machine (memory) and the second operating system is associated by a second virtual machine (memory) and wherein the computer control module is in a hypervisor module (computing architecture) [¶7, 131, Fig. 2-3]

wherein a first metric of the one or more metrics is an age of the user [¶84].

Shuman does not disclose shutting down and if the age of the user is below a predetermined threshold.

Breed does disclose shutting down [¶949] and determining the age of the user for determining allowed functions of the system [¶239].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Shuman to shut down a component as taught by Breed for an improved method of obtaining information about or relating to a vehicle or vehicular component system or subsystem [¶23].

Shuman in view of Breed does not disclose below a threshold.

Namburu does disclose below a threshold (parental setting) for a system to function [¶59-60].

It would have been obvious to one of ordinary skill in the art before the effective filing date the invention was made to modify Shuman in view of Breed to use age of a user as part of a control scheme as taught by Namburu to allow a user to manage the operation of components in the system [¶2].

As per claim 13 Shuman discloses a vehicle, comprising:

a computer executing first and second operating systems executing on a common microprocessor, wherein the first operating system comprises one or more applications performing a critical vehicle task, function, or operation and the second operating system comprises one or more applications performing an infotainment task, function, or operation [¶7, Fig. 2-3];

a computer control module operable to collect one or more metrics regarding an operation of the first or second operating system or computer or a network in communication with the computer, determine whether the collected one or more metrics are normal or abnormal, and when the collected one or more metrics is abnormal or not normal, giving less priority to the second operating system but not the first operating system [¶51, 57-58, 77, 216]

wherein the first and second operating systems concurrently and independently run on a common system [¶7]

wherein a first metric of the one or more metrics is an age of the user [¶84].

Shuman does not disclose kernel however kernels are well known operators for computer systems to function. It would have been obvious to one of ordinary skill in the art at the time the invention was made to understand Shuman's system would have common kernels to function. The Examiner will refer to US20070067614 ("Berry") [¶34, Fig. 3] as a teaching reference for a multi-operating system sharing a common kernel.

Shuman does not disclose shutting down and if the age of the user is below a predetermined threshold.

Breed does disclose shutting down [¶949] and determining the age of the user for determining allowed functions of the system [¶239].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Shuman to shut down a component as taught by Breed for an improved method of obtaining information about or relating to a vehicle or vehicular component system or subsystem [¶23].

Shuman in view of Breed does not disclose below a threshold.

Namburu does disclose below a threshold (parental setting) for a system to function [¶59-60].

It would have been obvious to one of ordinary skill in the art before the effective filing date the invention was made to modify Shuman in view of Breed to use age of a user as part of a control scheme as taught by Namburu to allow a user to manage the operation of components in the system [¶2].

As per claim 19 Shuman discloses a vehicle, comprising:

a first computer having a first operating system executing one or more applications performing a critical vehicle task, function, or operation [¶7]; and

a second computer having a different second operating system executing one or more applications performing at least one of an infotainment task, function, or operation and less critical task, function, or operation, wherein at least one of the following is true [¶7]:

(a) a computer control module collects one or more metrics regarding an operation of the first or second computers or a network in communication with the first or second computer, determines whether the collected one or more metrics regarding an operation of the

first or second computers or network are normal or abnormal, and apply one or more of the following rules[¶51, 57-58, 77, 216]:

when the collected one or more metrics associated with the first operating system is abnormal or not normal, prioritizing the first and second operating systems;

when the collected one or more metrics associated with the second operating system is abnormal or not normal, shutting down the second, but not the first, operating system; and

when the collected one or metrics associated with the network is abnormal or not normal, giving less priority to the second, but not the first, operating system [¶51, 58];

(b) the first and second computers are configured to be incapable of communicating with each other [¶51];

wherein (a) is true, wherein each member of the set of critical vehicle tasks, functions, or operations is different from each member of the set of infotainment tasks, functions, or operations, whereby the union of the two sets is null and wherein all of the rules are applied, wherein the critical task, function or operation is one or more of monitoring, controlling, or operating the ECU, TCU, door settings, window settings, or blind spot monitor, monitoring, controlling, or operating the safety equipment, monitoring or controlling certain critical sensors, controlling the operation of the engine, head light control unit, power steering, display panel, switch state control unit, power control unit, or brake control unit, or issuing alerts to a user or remote monitoring entity of potential problems with a vehicle operation, and wherein the infotainment task, function or operation is one or more of receiving, processing, or providing media or multimedia content [¶7, Fig. 2-4].

wherein the critical sensors including at least one of a power source controller and energy output sensor, engine temperature, oil pressure sensing, hydraulic pressure sensors, sensors for headlight and other lights, vehicle control system sensors, or steering/torque sensor [Fig. 4]; and

wherein a first metric of the one or more metrics is an age of the user [¶84].

Shuman does not disclose shutting down and if the age of the user is below a predetermined threshold.

Breed does disclose shutting down [¶949] and determining the age of the user for determining allowed functions of the system [¶239].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Shuman to shut down a component as taught by Breed for an improved method of obtaining information about or relating to a vehicle or vehicular component system or subsystem [¶23].

Shuman in view of Breed does not disclose below a threshold.

Namburu does disclose below a threshold (parental setting) for a system to function [¶59-60].

It would have been obvious to one of ordinary skill in the art before the effective filing date the invention was made to modify Shuman in view of Breed to use age of a user as part of a control scheme as taught by Namburu to allow a user to manage the operation of components in the system [¶2].

As per claims 2, 8, and 14 Shuman discloses further wherein each member of a first set of critical vehicle tasks, functions, or operations is different from each member of a second set of infotainment tasks, functions, or operations, whereby the union of the two sets is null [¶7].

As per claims 4 and 16 Shuman discloses further wherein the infotainment task, function or operation is one or more of receiving, processing, or providing media or multimedia content [¶7].

As per claims 5 and 17 Shuman discloses further wherein the first operating system is processed by a first virtual machine (memory) and the second operating system is processed by a second virtual machine (memory) and wherein the computer control module is in a hypervisor module (computing architecture) [¶7, 131, Fig. 2-3].

Shuman does not disclose simulated by a virtual machine.

Breed does disclose simulated by a virtual machine [¶320].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Shuman to include the teachings of Breed for an improved method of obtaining information about or relating to a vehicle or vehicular component system or subsystem [¶23].

As per claims 6 and 12 Shuman discloses further wherein the first and second operating systems concurrently and independently run on a common system [¶7].

Shuman does not disclose kernel however kernels are well known operators for computer systems to function. It would have been obvious to one of ordinary skill in the art at the time the invention was made to understand Shuman's system would have common kernels to function.

The Examiner will refer to US20070067614 ("Berry") [¶34, Fig. 3] as a teaching reference for a multi-operating system sharing a common kernel.

As per claim 9 Shuman discloses further wherein the critical task, function or operation is one or more of monitoring, controlling, or operating the ECU, TCU, door settings, window settings, or blind spot monitor, monitoring, controlling, or operating the safety equipment, monitoring or controlling certain critical sensors, controlling the operation of the engine, head light control unit, power steering, display panel, switch state control unit, power control unit, or brake control unit, or issuing alerts to a user or remote monitoring entity of potential problems with a vehicle operation and wherein the infotainment task, function or operation is one or more of receiving, processing, or providing media or multimedia content [¶7, Fig. 2-4],

wherein the critical sensors include at least one of a power source controller and energy output sensor, engine temperature, oil pressure sensing, hydraulic pressure sensors, sensors for headlight and other lights, vehicle control system sensors, or steering/torque sensor [Fig. 4].

As per claim 10 Shuman discloses further wherein a first requirement applied to the first operating system to determine abnormal operation is different from a second requirement applied to the second operating system to determine abnormal operation [¶7].

As per claim 15 Shuman discloses further wherein the critical task, function or operation is one or more of monitoring, controlling, or operating the ECU, TCU, door settings, window settings, or blind spot monitor, monitoring, controlling, or operating the safety equipment, monitoring or controlling certain critical sensors, controlling the operation of the engine, head light control unit, power steering, display panel, switch state control unit, power control unit, or

brake control unit, or issuing alerts to a user or remote monitoring entity of potential problems with a vehicle operation [Fig. 4]; and

wherein the critical sensors include at least one of a power source controller and energy output sensor, engine temperature, oil pressure sensing, hydraulic pressure sensors, sensors for headlight and other lights, vehicle control system sensors, or steering/torque sensor [Fig. 4].

Conclusion

11. 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 PAUL CASTRO whose telephone number is (571)272-4836. The examiner can normally be reached on Monday-Thursday 8a.m.-4p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Algahaim Helal 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.

/P. C./
Examiner, Art Unit 3662

/JERRAH EDWARDS/
Primary Examiner, Art Unit 3667

Notice of References Cited	Application/Control No. 14/253,393	Applicant(s)/Patent Under Reexamination RICCI, CHRISTOPHER P.	
	Examiner PAUL CASTRO	Art Unit 3662	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-2010/0222939 A1	09-2010	Namburu; Setu Madhavi	G07C9/00111	701/2
	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	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

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

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

Electronic Acknowledgement Receipt

EFS ID:	24652898
Application Number:	14684856
International Application Number:	
Confirmation Number:	7732
Title of Invention:	VEHICLE-BASED MULTIMODE DISCOVERY
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	111285
Filer:	Douglas W. Swartz/Theresa Brown
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	8283-585-CON
Receipt Date:	19-JAN-2016
Filing Date:	13-APR-2015
Time Stamp:	11:20:26
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		IDS_02.pdf	133038 41b0521c9c189dd62962380c6c45f0826abd2275	yes	3

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Transmittal Letter	1	2
	Information Disclosure Statement (IDS) Form (SB08)	3	3
Warnings:			
Information:			

2	Non Patent Literature	8283-585-PCT_IPRP_10-29-2015.pdf	1113902 5dcadc73e7c1ebf209120e7cd2102aef60889242	no	7
Warnings:					
Information:					
3	Other Reference-Patent/App/Search documents	8283-586_NOA_08-12-2015.pdf	1198993 6e98c86f971724a612001ca3649d6dec8606e149	no	10
Warnings:					
Information:					
4	Other Reference-Patent/App/Search documents	8283-589_OA_09-15-2015.pdf	1449855 ca05b512ab1b33c0777441461d21c66ae0e4b7d7	no	16
Warnings:					
Information:					
5	Other Reference-Patent/App/Search documents	8283-589_FOA_01-15-2016.pdf	1585203 a208e404bf72a46674aac5cbb07dd08ca291e837	no	18
Warnings:					
Information:					
		Total Files Size (in bytes):	5480991		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:	)	Group Art Unit: 3663
Christopher P. Ricci	)	Confirmation No.: 7732
Serial No.: 14/684,856	)	Examiner: DUNN, ALEX C
Filed: April 13, 2015	)	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Atty. File No.: 8283-585-CON	)	
Entitled: "Vehicle-Based Multimode Discovery"	)	*Electronically Submitted*

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

Dear Commissioner:

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

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

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

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

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

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

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

Serial No. 14/992,950 filed 01/11/2016 (Attorney Ref. No. 8283-586-CON)

Serial No. _____ filed _____ (Attorney Ref. No. _____)

☐ Other:_____

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

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

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

Respectfully submitted,

SHERIDAN ROSS P.C.

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

Date: Jan 18, 2016

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 10/21/2015
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.
14/684,856	04/13/2015	Christopher P. Ricci	8283-585-CON	7732

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	01/21/2016

EXAMINER	ART UNIT	CLASS-SUBCLASS
DUNN, ALEX C	3663	701-036000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

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

1 Sheridan Ross P.C.
2
3

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

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: AutoConnect Holdings LLC

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Wellesley, MA

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:
- ☒ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☒ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 19-1970 (enclose an extra copy of this form).

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

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

Authorized Signature /Douglas W. Swartz/ Date January 21, 2016

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

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

Electronic Patent Application Fee Transmittal

Application Number:	14684856
Filing Date:	13-Apr-2015
Title of Invention:	VEHICLE-BASED MULTIMODE DISCOVERY
First Named Inventor/Applicant Name:	Christopher P. Ricci
Filer:	Douglas W. Swartz/Amy Duarte
Attorney Docket Number:	8283-585-CON

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Utility Appl Issue Fee	1501	1	960	960

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**960**

Electronic Acknowledgement Receipt

EFS ID:	24682950
Application Number:	14684856
International Application Number:	
Confirmation Number:	7732
Title of Invention:	VEHICLE-BASED MULTIMODE DISCOVERY
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	111285
Filer:	Douglas W. Swartz/Amy Duarte
Filer Authorized By:	Douglas W. Swartz
Attorney Docket Number:	8283-585-CON
Receipt Date:	21-JAN-2016
Filing Date:	13-APR-2015
Time Stamp:	11:55:29
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$960
RAM confirmation Number	11931
Deposit Account	191970
Authorized User	SWARTZ, DOUGLAS W.

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

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	8283-585-CON_Issue-Fee-Transmittal.pdf	1017981 1d76a879d5ad9a05375c22642bfe217da08e213c	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30905 7b319f9211a4eaf9006e76d6716122be3b1fa637	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1048886		

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.

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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/684,856	04/13/2015	Christopher P. Ricci	8283-585-CON

CONFIRMATION NO. 7732

POWER OF ATTORNEY NOTICE

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

OC000000080271512

Date Mailed: 02/03/2016

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 01/20/2016.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/fstephanos/

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/684,856	04/13/2015	Christopher P. Ricci	8283-585-CON

CONFIRMATION NO. 7732

POA ACCEPTANCE LETTER

22442
Sheridan Ross PC
1560 Broadway
Suite 1200
Denver, CO 80202

OC00000080271547

Date Mailed: 02/03/2016

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 01/20/2016.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/fstephanos/

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
14/684,856	04/13/2015	3663	2480	8283-585-CON	21	2

CONFIRMATION NO. 7732

REPLACEMENT FILING RECEIPT

22442
Sheridan Ross PC
1560 Broadway
Suite 1200
Denver, CO 80202

Date Mailed: 02/03/2016

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

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

Applicant(s)

AutoConnect Holdings LLC, Wellesley, MA;

Power of Attorney: The patent practitioners associated with Customer Number 22442

Domestic Priority data as claimed by applicant

This application is a CON of 14/253,312 04/15/2014 PAT 9020697
which 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 for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: No

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 04/23/2015
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/684,856**
Projected Publication Date: Not Applicable
Non-Publication Request: No
Early Publication Request: No
Title

VEHICLE-BASED MULTIMODE DISCOVERY

Preliminary Class

701

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

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Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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To: e-docket@sheridanross.com,,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 22442

Feb 03, 2016 05:27:51 AM

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Sheridan Ross PC
1560 Broadway
Suite 1200
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UNITED STATES

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Application	Document	Mailroom Date	Attorney Docket No.
14684856	N570	02/03/2016	8283-585-CON
	N570	02/03/2016	8283-585-CON
	APP.FILE.REC	02/03/2016	8283-585-CON

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

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Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

PRINTER RUSH

(PTO ASSISTANCE)

Application:	14684856	**Examiner:**	DUNN	**GAU:**	3663
From:	Bernice Crittenden	**Location:**	RTFM	**Creation Date:**	02/04/2016

Tracking #: Week Date:

DOC CODE	DOC DATE	MISCELLANEOUS
☐ 1449		☐ Continuing Data
☐ IDS		☐ Foreign Priority
☐ CLM		☐ Document Legibility
☐ IIFW/FWCLM		☐ Fees
☐ SRFW		☐ Petition (TC)
☐ DRW		☐ Other
☐ OATH		
☒ 312	01/20/2016	
☐ SPEC		

[RUSH] Message:

Please respond to the 01-20-2016 A.NA.

Thank you,
BC

[XRUSH] Response:

Initials: _____

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REV: JUL 15

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/684,856	04/13/2015	Christopher P. Ricci	8283-585-CON	7732

7590 02/08/2016

Sheridan Ross PC
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER	
DUNN, ALEX C	
ART UNIT	PAPER NUMBER
3663	
NOTIFICATION DATE	DELIVERY MODE
02/08/2016	ELECTRONIC

NOTICE OF NON-COMPLIANT INFORMATION DISCLOSURE STATEMENT

An Information Disclosure Statement (IDS) filed 01-19-2016 in the above-identified application fails to meet the requirements of 37 CFR 1.97(d) for the reason(s) specified below. Accordingly, the IDS will be placed in the file, but the information referred to therein has not been considered.

The IDS is not compliant with 37 CFR 1.97(d) because:

- [x] The IDS lacks a statement as specified in 37 CFR 1.97(e).
- [ ] The IDS lacks the fee set forth in 37 CFR 1.17(p).
- [ ] The IDS was filed after the issue fee was paid. Applicant may wish to consider filing a petition to withdraw the application from issue under 37 CFR 1.313(c) to have the IDS considered. See MPEP 1308.

/bc/ Bernice Crittenden

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

To: e-docket@sheridanross.com,,
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Feb 08, 2016 05:30:33 AM

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Application	Document	Mailroom Date	Attorney Docket No.
14684856	M327	02/08/2016	8283-585-CON

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PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

PRINTER RUSH

(PTO ASSISTANCE)

Application:	14684856	**Examiner:**	DUNN	**GAU:**	3663
From:	Bernice Crittenden	**Location:**	RTFM	**Creation Date:**	02/04/2016

Tracking #: Week Date:

DOC CODE	DOC DATE	MISCELLANEOUS
☐ 1449		☐ Continuing Data
☐ IDS		☐ Foreign Priority
☐ CLM		☐ Document Legibility
☐ IIFW/FWCLM		☐ Fees
☐ SRFW		☐ Petition (TC)
☐ DRW		☐ Other
☐ OATH		
☒ 312	01/20/2016	
☐ SPEC		

[RUSH] Message:

Please respond to the 01-20-2016 A.NA.

Thank you,
BC

[XRUSH] Response:

Amendment considered
/ACD/
2/9/2016

Initials: _____

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REV: JUL 15

Enter
/ACD/
2/9/2016

AMENDMENTS TO THE CLAIMS

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

Listing of Claims

1-21. (Cancelled)

22. (Currently Amended) A method, comprising:

discovering, by a microprocessor executing a microprocessor executable device discovery daemon, one or more communication devices connected wirelessly to a network and/or communication subsystem of a vehicle;

for each of the discovered one or more communication ~~device~~devices, populating, by the microprocessor executing the device discovery daemon, system data with device information and capabilities; and

refreshing, by the microprocessor executing a microprocessor executable desktop manager, graphical elements of a graphical display of the vehicle to reflect the discovered one or more communication devices.

23. (Previously Presented) The method of claim 22, wherein the device discovery daemon pings the network and/or communication subsystem when a predetermined event occurs, the predetermined event being one or more starting the vehicle and a vehicle door opens or closes.

24. (Previously Presented) The method of claim 22, wherein the device discovery daemon determines capabilities of the one or more communication devices based on which open port the one or more communication devices exposes to the device discovery daemon.

25. (Previously Presented) The method of claim 22, further comprising:

determining, by the microprocessor executable device discovery daemon, that a computational device is connected to or attempting to connect to a network and/or communication subsystem of a vehicle;

Enter
/ACD/
2/9/2016

AMENDMENTS TO THE SPECIFICATION

Please **AMEND** paragraph [0002] of the specification as follows:

[0002] This application is also related to U.S. Patent Application Nos. 13/420,236, filed on March 14, 2012, entitled, "Configurable Vehicle Console"; 13/420,240, filed on March 14, 2012, entitled "Removable, Configurable Vehicle Console"; 13/462,593, filed on May 2, 2012, entitled "Configurable Dash Display"; 13/462,596, filed on May 2, 2012, entitled "Configurable Heads-Up Dash Display"; 13/679,459, filed on November 16, 2012, entitled "Vehicle Comprising Multi-Operating System" ~~(Attorney Docket No. 6583-228)~~; 13/679,234, filed on November 16, 2012, entitled "Gesture Recognition for On-Board Display" ~~(Attorney Docket No. 6583-229)~~; 13/679,412, filed on November 16, 2012, entitled "Vehicle Application Store for Console" ~~(Attorney Docket No. 6583-230)~~; 13/679,857, filed on November 16, 2012, entitled "Sharing Applications/Media Between Car and Phone (Hydroid)" ~~(Attorney Docket No. 6583-231)~~; 13/679,878, filed on November 16, 2012, entitled "In-Cloud Connection for Car Multimedia" ~~(Attorney Docket No. 6583-232)~~; 13/679,875, filed on November 16, 2012, entitled "Music Streaming" ~~(Attorney Docket No. 6583-233)~~; 13/679,676, filed on November 16, 2012, entitled "Control of Device Features Based on Vehicle State" ~~(Attorney Docket No. 6583-234)~~; 13/678,673, filed on November 16, 2012, entitled "Insurance Tracking" ~~(Attorney Docket No. 6583-235)~~; 13/678,691, filed on November 16, 2012, entitled "Law Breaking/Behavior Sensor" ~~(Attorney Docket No. 6583-236)~~; 13/678,699, filed on November 16, 2012, entitled "Etiquette Suggestion" ~~(Attorney Docket No. 6583-237)~~; 13/678,710, filed on November 16, 2012, entitled "Parking Space Finder Based on Parking Meter Data" ~~(Attorney Docket No. 6583-238)~~; 13/678,722, filed on November 16, 2012, entitled "Parking Meter Expired Alert" ~~(Attorney Docket No. 6583-239)~~; 13/678,726, filed on November 16, 2012, entitled "Object Sensing (Pedestrian Avoidance/Accident Avoidance)" ~~(Attorney Docket No. 6583-240)~~; 13/678,735, filed on November 16, 2012, entitled "Proximity Warning Relative to Other Cars" ~~(Attorney Docket No. 6583-241)~~; 13/678,745, filed on November 16, 2012, entitled "Street Side Sensors" ~~(Attorney Docket No. 6583-242)~~; 13/678,753, filed on November 16, 2012, entitled "Car Location" ~~(Attorney Docket No. 6583-243)~~; 13/679,441, filed on November 16, 2012, entitled "Universal Bus in the Car" ~~(Attorney Docket No. 6583-244)~~; 13/679,864, filed on November 16, 2012, entitled "Mobile Hot Spot/Router/Application Share Site or Network" ~~(Attorney Docket No. 6583-245)~~; 13/679,815, filed on November 16, 2012, entitled "Universal Console Chassis

Ford Ex. 1002 Page 633 of 653

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/684,856	04/13/2015	Christopher P. Ricci	8283-585-CON	7732

22442 7590 02/16/2016

Sheridan Ross PC
1560 Broadway
Suite 1200
Denver, CO 80202

EXAMINER
DUNN, ALEX C

ART UNIT	PAPER NUMBER
3663	

NOTIFICATION DATE	DELIVERY MODE
02/16/2016	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):

e-docket@sheridanross.com

Response to Rule 312 Communication	Application No.	Applicant(s)
	14/684,856	RICCI ET AL.
	Examiner	Art Unit
	ALEX C. DUNN	3663

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

1. ☒ The amendment filed on *20 January 2016* under 37 CFR 1.312 has been considered, and has been:

a) ☒ entered.

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

c) ☐ disapproved because the amendment was filed after the payment of the issue fee.

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

d) ☐ disapproved. See explanation below.

e) ☐ entered in part. See explanation below.

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

To: e-docket@sheridanross.com,,
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Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 22442

Feb 16, 2016 05:40:10 AM

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Denver, CO 80202
UNITED STATES

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Application	Document	Mailroom Date	Attorney Docket No.
14684856	N271	02/16/2016	8283-585-CON

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PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/684,856	03/22/2016	9290153	8283-585-CON	7732

22442 7590 03/02/2016

Sheridan Ross PC
1560 Broadway
Suite 1200
Denver, CO 80202

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

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

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

Christopher P. Ricci, Saratoga, CA;
AutoConnect Holdings LLC, Wellesley, MA;
Octavian Chincisan, Richmond Hill, CANADA;
Alisher I. Yusupov, Richmond Hill, CA;

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

To: e-docket@sheridanross.com,,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 22442

Mar 03, 2016 05:34:14 AM

Dear PAIR Customer:

Sheridan Ross PC
1560 Broadway
Suite 1200
Denver, CO 80202
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 22442 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:
The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
14684856	ISSUE.NTF	03/02/2016	8283-585-CON

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

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

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

PTO/AIA/81A (02-15)
Approved for use through 01/31/2018. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995 no persons are required to respond to a collection of information unless it displays a valid OMB control number

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

Patent Number	9,290,153
Issue Date	March 22, 2016
First Named Inventor	Christopher P. Ricci
Title	VEHICLE-BASED MULTIMODE DISCOVERY
Attorney Docket No.	51263-90209

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

☐ A Power of Attorney is submitted herewith.

OR

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

OR

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

Practitioner(s) Name	Registration Number

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

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

OR

☒ The address associated with the Customer Number identified in the box at right: 25231

OR

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

I am the:

☒ Applicant.

OR

☐ Patent owner.

Statement under 37 CFR 3.73(c) (Form PTO/AIA/96) submitted herewith or filed on _____.

SIGNATURE of Applicant or Patent Owner

Signature		Date	
Name	Gregg S. Hershenson	Telephone	
Title and Company	CEO - AutoConnect Holdings LLC		

NOTE: Signatures of all the applicants or patent owners of the entire interest or their representative(s) are required. If more than one signature is required, submit multiple forms, check the box below, and identify the total number of forms submitted in the blank below.

☑ A total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public, which is to update (and by the USPTO to process) the file of a patent or reexamination proceeding. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

Privacy Act Statement

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

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

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

Electronic Acknowledgement Receipt

EFS ID:	29616040
Application Number:	14684856
International Application Number:	
Confirmation Number:	7732
Title of Invention:	VEHICLE-BASED MULTIMODE DISCOVERY
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	22442
Filer:	Robert G. Crouch/Lori Gerow
Filer Authorized By:	Robert G. Crouch
Attorney Docket Number:	8283-585-CON
Receipt Date:	27-JUN-2017
Filing Date:	13-APR-2015
Time Stamp:	10:42:05
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	POA_Signed_51263-90209.pdf	256484 8a4b3501c5b1085c81285d066dcfa26a320cd593	no	2

Warnings:

Information:	
Total Files Size (in bytes):	256484

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/684,856	04/13/2015	Christopher P. Ricci	8283-585-CON

CONFIRMATION NO. 7732

POWER OF ATTORNEY NOTICE

22442
Sheridan Ross PC
1560 Broadway
Suite 1200
Denver, CO 80202

OC000000092555970

Date Mailed: 07/06/2017

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 06/27/2017.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/zabraha/

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/684,856	04/13/2015	Christopher P. Ricci	51263-90209

CONFIRMATION NO. 7732

POA ACCEPTANCE LETTER

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

OC000000092556024

Date Mailed: 07/06/2017

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 06/27/2017.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/zabraha/

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

Jul 06, 2017 03:59:35 AM

Dear PAIR Customer:

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

The following USPTO patent application(s) associated with your Customer Number, 25231 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:
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Application	Document	Mailroom Date	Attorney Docket No.
14684856	N570	07/06/2017	51263-90209
	N570	07/06/2017	51263-90209

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

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

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

PTO/AIA/80 (07-12)
Approved for use through 11/30/2014. OMB 0651-0035
U.S. Patent and Trademark Office; U.S DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

☒ Practitioners associated with Customer Number: 153965

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

☒ The address associated with Customer Number: 153965

OR

☐

Firm or Individual Name			
Address			
City		State	Zip
Country			
Telephone		Email	

Assignee Name and Address: AutoConnect Holdings LLC
75 High Road
Newbury, MA 01951

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be Filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of The practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	2-28-2019
Name	Gregg Hershenson	Telephone	978.462.1287
Title	CEO		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

Privacy Act Statement

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

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

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

Electronic Acknowledgement Receipt

EFS ID:	35857591
Application Number:	14684856
International Application Number:	
Confirmation Number:	7732
Title of Invention:	VEHICLE-BASED MULTIMODE DISCOVERY
First Named Inventor/Applicant Name:	Christopher P. Ricci
Customer Number:	25231
Filer:	Unisha Patel
Filer Authorized By:	
Attorney Docket Number:	51263-90209
Receipt Date:	29-APR-2019
Filing Date:	13-APR-2015
Time Stamp:	13:38:21
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	POASigned.pdf	74574 10a88179b84bc774445edb87cb7742f6cbad0cc4	no	2

Warnings:

Information:	
Total Files Size (in bytes):	74574

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/684,856	04/13/2015	Christopher P. Ricci	51263-90209

CONFIRMATION NO. 7732

POA ACCEPTANCE LETTER

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

OC000000107830829

Date Mailed: 05/02/2019

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/29/2019.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/agizaw/

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/684,856	04/13/2015	Christopher P. Ricci	51263-90209

CONFIRMATION NO. 7732

POWER OF ATTORNEY NOTICE

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

OC000000107830785

Date Mailed: 05/02/2019

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/29/2019.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/agizaw/

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

May 02, 2019 04:45:16 AM

Dear PAIR Customer:

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

The following USPTO patent application(s) associated with your Customer Number, 153965 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

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Application	Document	Mailroom Date	Attorney Docket No.
14684856	N570	05/02/2019	51263-90209
	N570	05/02/2019	51263-90209

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

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

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number: 14/684,856

Patent Number: 9290153

Filed: April 13,2015

For: VEHICLE-BASED MULTIMODE DISCOVERY

Attorney Docket Number: **IPO-0103**

ASSERTION OF SMALL ENTITY STATUS

To: 571.273.6500 February 4, 2020

Commissioner:

The following patent no longer qualifies as large entity and currently qualifies as **small entity**. The undersigned is a patent practitioner acting in a representative capacity under § **1.34**.

Application Number	Publication Number	Patent Number	Issue Date
14/684,856	2015-0232065	9290153	3/22/2016

Respectfully Submitted,

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