

1) Family number: 50735132 (US2013073193A)

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Title: COLLABORATIVE TRAFFIC MONITORING

Priority: US20110235677 20110919

Family:

	Publication number	Publication date	Application number	Application date
	DE102012001572 A1	20130321	DE201210001572	20120126
	DE102012001572 B4	20140102	DE201210001572	20120126
	GB201122277 A0	20120201	GB20110022277	20111223
	GB2494727 A1	20130320	GB20110022277	20111223
	US2013073193 AA	20130321	US20110235677	20110919

Probable Assignee: QUALCOMM INC

Assignee(s):(std): CAMBRIDGE SILICON RADIO LTD ; HEAVEY ROBERT LUKE

Assignee(s): QUALCOMM INC ; QUALCOMM TECHNOLOGIES INT LTD ; CAMBRIDGE SILICON RADIO LIMITED

Inventor(s):(std): HEAVEY ROBERT LUKE

Inventor(s): ROBERT LUKE HEAVEY

International class (IPC 8-9): G08G1/00 G08G1/0965 G08G1/0967 G08G1/16 (Advanced/Invention)

CPC: G08G1/09675 G08G1/096791 G08G1/163 G08G1/161 G08G1/0112 G08G1/0129 G08G1/0141 G08G1/096716 G08G1/096758

US class: 701/119

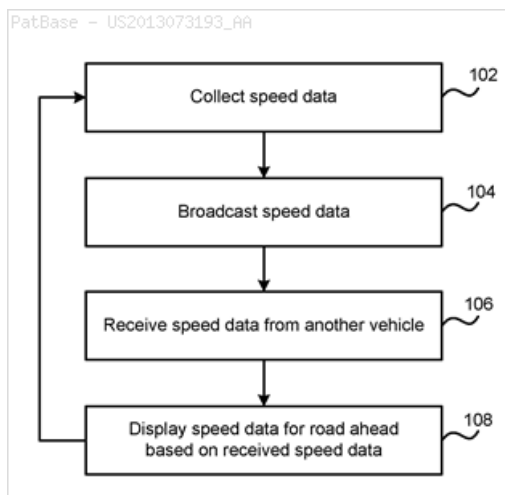
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Cited documents: WO06037360 A1, US8171105 BB, US8046166 BB, US7899592 BB, US7613564 BB, US7283904 BB, US6801837 BB, US6765495 BA, US6654681 BA, US5699056 A, US2011224891 AA, US2011109475 AA, US2011044172 AA, US2010312432 AA, US2010254282 AA, US2009259360 AA, US2008065311 AA, US2007279251 AA, US2006226968 AA, US2006031003 AA, US2005099321 AA, US2005003844 AA, US2003009277 AA, EP2288190 A1, DE2010050805, DE2010028613, DE2007032956, DE12008003633 T, DE112008003633 T5, DE102010050805 A1, DE102010028613 A1, DE102007032956 A1

Forward Citations: WO19092012, US9972054, US9946531, US9944282, US9940834, US9870649, US9868394, US9858621, US9852475, US9805601, US9805423, US9792656, US9786154, US9783159, US9767516, US9754325, US9715711, US9646428, US9262787, US9129522, US2015112730, US2015006068, US10469282, US10431018, US10416670, US10395332, US10387962, US10386845, US10386192, US10384678, US10373259, US10354330, US10353694, US10343605, US10336321, US10325491, US10324463, US10319039, US10308246, US10295363, US10266180, US10249109, US10246097, US10242513, US10241509, US10223752, US10223479, US10185999, US10185998, US10185997, US10185327, US10181161, US10168703, US10166994, US10163350, US10157423, US10156848, US10134278, US10106083, US10102587, US10089693, US10086782, US10065517, US10055794, US10042359, US10026237, US10026130, US10019901, US10007263, EP3021304, DE102016205143, DE102013215527, DE102013019196,

Abstract:

A collaborative traffic monitoring method is described. In an embodiment, a collaborative traffic monitoring system for use in a vehicle comprises an input for receiving GPS location data and a processing unit which generates speed data for a vehicle based on the received GPS location data. The system also includes a transmitter which broadcasts the speed data and a receiver which receives speed data broadcast by other vehicles. The received speed data is then used to display an indication of the road speeds ahead.



Title: TELEMATICS SYSTEM
Priority: EP20120004834 20120628
Family:

Publication number	Publication date	Application number	Application date
■ CN103529818 A	20140122	CN201310265418	20130628
■ CN103529818 B	20180731	CN201310265418	20130628
■ DE602012041266 D1	20180215	DE201260041266T	20120628
■ EP2680534 A1	20140101	EP20120004834	20120628
■ EP2680534 B1	20171227	EP20120004834	20120628
■ US2014005880 AA	20140102	US20130924973	20130624
■ US9201844 BB	20151201	US20130924973	20130624

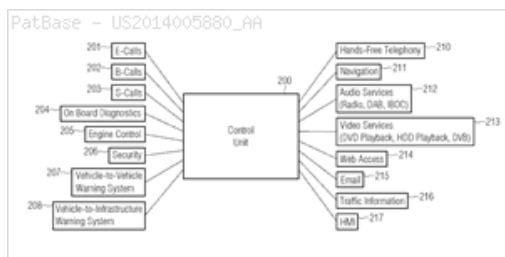
Probable Assignee: HARMAN BECKER AUTOMOTIVE SYSTEMS GMBH
Assignee(s):(std): HARMAN BECKER AUTOMOTIVE SYS ; HARMAN BECKER AUTOMOTIVE SYSTEMS GMBH
Inventor(s):(std): KLIMKE ANDREAS ; CLAUSS MARTIN ; SEIBOLD FELIX ; GOECKELMANN RALPH ; ABT OLIVER ; GUENKOVA LUY TEODORA ; RALPH GOECKELMANN ; FELIX SEIBOLD ; MARTIN CLAUSS ; OLIVER ABT ; TEODORA GUENKOVA LUY ; ANDREAS KLIMKE
Agent(s): GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER; GRUENECKER PATENT U RECHTSANWAELTE PARTG MBB; ALLEMAN HALL MCCOY RUSSELL AND TUTTLE LLP
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR
International class (IPC 8-9): G05B23/02 G06F17/00 G07C5/00 G07C5/08 H04L12/24 H04L29/08 (Advanced/Invention); G07C5/00 G07C5/08 (Advanced/Non-invention)
CPC: G07C5/008 G07C5/0808 H04L41/069 H04L67/12 G06F17/00
US class: 1/1 701/31.4 701/33.4

[Classification Explorer](#)

Cited documents: US8544046 BB, US7401352 BB, US2012053778 AA, US2012053778 AA, US2011276219 AA, US2011276218 AA, US2011141974 AA, US2011130916 AA, US2011130906 AA, US2010254282 AA, US2009150023 AA, US2005203673 AA, US2005065678 AA, US2005060070 AA, CN1758044 A, CN1468409 A, CN102171687 A, CN101859447 A, CN101221571 A,
Forward Citations: WO18156709, US9767626, US9766874, US9716762, US9715442, US9701165, US9558598, US9524156, US9483882, US9442489, US9269201, US9197705, US2017094346, US2017011561, US2016167460, US2016119419, US2016072741, US2015371459, US2015286219, US2015193219, US2015127570, US2014309816, US2014309812, US2014058619, US10462193, US10459439, US10311652, US10291710, US10140110, EP3373522, DE102016113795, CN108684216, CN106364424, CN105553687, CN105553687,

Abstract:

A telematics system can include a processor, installed in a vehicle, ship, or other mode of transport of people, configured to identify an error state of an telematics component providing a telematics service. The processor can also be configured to communicate the error state to a logger component via a logging message. The logger component may be configured to generate a log file based on the logging message.



Title: PEER VEHICLE ADAPTIVE DESTINATION-BASED MOBILE ADVERTISING
Priority: US20090603038 20091021
Family:

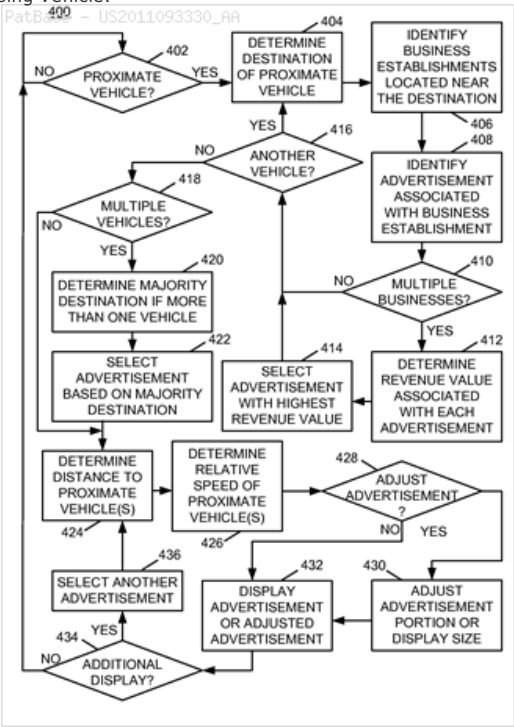
Publication number	Publication date	Application number	Application date
■ US2011093330 AA	20110421	US20090603038	20091021

Probable Assignee: IBM
Assignee(s):(std): IBM
Assignee(s): INT BUSINESS MACHINES CORP
Inventor(s):(std): SHOOK AARON K ; IVORY ANDREW J ; BURCKART ERIK J
International class (IPC 8-9): G06F19/00 G06Q30/00 (Advanced/Invention)
CPC: G06Q30/02 G06Q30/0247 G06Q30/0265
European class: G06Q30/02 G06Q30/0247 G06Q30/0265
US class: 701/300 701/300S 705/14.46 705/14.460P 705/14.62 705/14.620S

[Classification Explorer](#)

Cited documents: US8073460 BA, US6653946 BA, US6545596 BA, US2011082753 AA, US2010259058 AA, US2010254282 AA, US2010191675 AA, US2009299857 AA, US2009163187 AA, US2009101706 AA, US2009047923 AA, US2009006194 AA, US2008294521 AA, US2008294520 AA, US2008189173 AA, US2008082424 AA, US2008064362 AA, US2006265279 AA, US2006130100 AA, US2005177421 AA, US2005177416 AA, US2004267617 AA, US2004119589 AA, US2004036622 AA,
Forward Citations: US9781455, US9693197, US9595195, US9344989, US9324089, US9147192, US2016360371, US2015363830, US2014066091, US2010179878, US10423982, US10380642, US10341709, US10275796, US10204517, US10133530, US10068255, US10051306, EP3048599,

Abstract:
A destination of a vehicle proximate to an advertising vehicle is determined via an advertising controller associated with the advertising vehicle. An advertisement related to the destination of the proximate vehicle is selected. The selected advertisement is displayed on an external advertising display associated with the advertising vehicle.



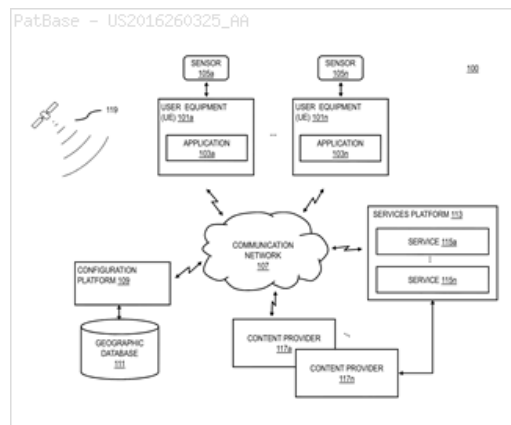
4) Family number: 63470270 (US2016260325A) © PatBase

Title: METHOD AND APPARATUS FOR PROVIDING TRAFFIC FLOW SIGNALING
Priority: US20150640388 20150306
Family:

Publication number	Publication date	Application number	Application date
US2016260325 AA	20160908	US20150640388	20150306
US9483939 BB	20161101	US20150640388	20150306

Probable Assignee: HERE GLOBAL BV
Assignee(s):(std): HERE GLOBAL BV
Inventor(s):(std): STENNETH LEON ; MODICA LEO
Agent(s): DITTHAVONG AND STEINER PC
International class (IPC 8-9): G06F19/00 G08G1/01 G08G1/07 H04W4/04 (Advanced/Invention)
CPC: G08G1/0116 G08G1/0133 G08G1/0145 G08G1/08 G08G1/082 G08G1/083 G08G1/095 G08G1/096716 G08G1/096775 G08G1/096811 H04W4/46 G08G1/0112
US class: 1/1 701/118
[Classification Explorer](#)
Cited documents: USRE31044 E, US8989996 BA, US8618954 BB, US8050854 BA, US5357436 A, US4370718 A, US2015066340 AA, US2014278052 AA, US2014012498 AA, US2013289862 AA, US2013099942 AA, US2013063282 AA, US2013018574 AA, US2013013179 AA, US2010254282 AA, US2010017103 AA, US2008004802 AA, US2007244627 AA, US2005209772 AA,
Forward Citations: WO19156821, WO18178828, US9875247, US9865163, US9857196, US9805598, US2017178505, US10252717, US10127811, US10019446, GB2561671, CN108133602,

Abstract:
An approach is provided for synchronizing traffic flow and/or traffic signals in alternate travel segments. The approach involves determining traffic congestion information for at least one travel segment that is classified in at least one first functional class. The approach also involves processing and/or facilitating a processing of the traffic congestion information to determine at least one alternate travel segment that is classified in at least one second functional class. The approach further involves determining at least one calculated traffic flow for the at least one alternate travel segment based, at least in part, on traffic flow information associated with the at least one first functional class. The approach also involves causing, at least in part, a configuration of one or more traffic signaling parameters for the at least one alternate travel segment based, at least in part, on the calculated traffic flow.



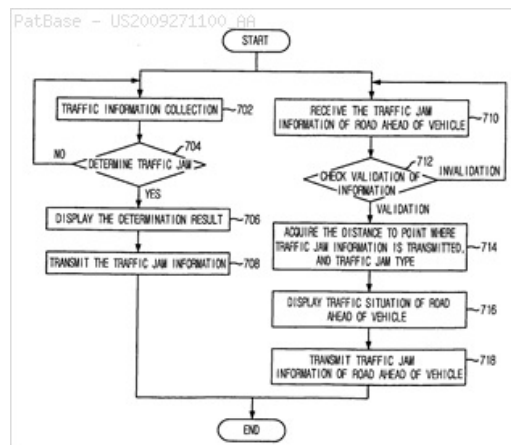
5) Family number: 34556412 (US2009271100A)

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Title:	APPARATUS AND METHOD FOR PROVIDING TRAFFIC JAM INFORMATION, AND APPARATUS FOR RECEIVING TRAFFIC JAM INFORMATION FOR AUTOMOBILE																												
Priority:	KR20050119430 20051208		KR20060040129 20060503		WO2006KR05258 20061207																								
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Publication number	Publication date	Application number	Application date																										
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Probable Assignee:	ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INST																												
Assignee(s):(std):	KIM JIN KYEONG ; KIM KYEONG PYO ; KOREA ELECTRONICS TELECOMM ; LEE WOO YONG ; KIM YONG SUN ; ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INST KOREA																												
Assignee(s):	ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTIT ; ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE ; ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INST																												
Inventor(s):(std):	KIM JIN KYEONG ; KIM KYEONG PYO ; KIM YONG SUN ; LEE WOO YONG																												
Agent(s):	SHINSUNG PATENT FIRM; STAAS AND HALSEY LLP																												
Designated states:	AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW																												
International class (IPC 8-9):	G06F19/00 G06G1/00 G06G7/70 G06G7/76 G08G1/01 G08G1/09 G08G1/0967 (Advanced/Invention); G08G1/01 G08G1/09 (Advanced/Non-invention); G08G1/01 G08G1/09 G08G1/0962 (Core/Invention)																												
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US class:	340/933 340/934 340/936 701/116 701/117 701/118 701/118P 701/119																												
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Forward Citations:	WO15134542, WO11079689, WO10047508, WO10047508, US9976265, US9940836, US9478128, US9453309, US9322657, US9207089, US9182314, US9154982, US9146112, US9014632, US8990033, US8788222, US8731807, US8723690, US8706325, US8538667, US8510025, US2015194054, US2012276847, US2012146811, US2010254282, US2008281960, US10210753, KR20160137714, KR101712615, KR100918877, KR100904547, EP3114664, EP2659471, EP2659471, CN106355884, CN106355884, CN104966398, CN104966398, CN104851308, CN103377559, CN102184641,																												

Abstract:

The present invention includes a traffic information collection unit for collecting weight information of a vehicle running on a road and vibration and noise information generated on the road; a traffic jam determination unit for determining a traffic jam and traffic jam type based on the collected weight information, the vibration and noise information; a traffic jam information transceiving unit for transmitting the traffic jam information or the received traffic jam information of a front road to a vehicle on a rear road by receiving the traffic jam information of a front road from another apparatus for providing traffic jam information installed on the front road; and a display unit for displaying the determination result of the traffic jam determination unit, or a traffic condition of the front road.



6) Family number: 57414526 (US2014278026A)

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Title: APPARATUS AND SYSTEM FOR MONITORING AND MANAGING TRAFFIC FLOW
Priority: US20130815807 20130316 US20140158797 20140118 US20150666588 20150324
 US20170489974 20170418

Family:	Publication number	Publication date	Application number	Application date
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	US2014324326 AA	20141030	US20140158797	20140118
	US2016379486 AA	20161229	US20150666588	20150324
	US2017337813 AA	20171123	US20170489974	20170418
	US9070290 BB	20150630	US20130815807	20130316
	US9224293 BB	20151229	US20140158797	20140118
	US10037689 BB	20180731	US20150666588	20150324

Probable Assignee: TAYLOR DONALD WARREN

Assignee(s):(std): TAYLOR DONALD WARREN

Inventor(s):(std): TAYLOR DONALD WARREN

International class (IPC 8-9): G01C21/34 G01C21/36 G05D1/02 G06K7/10 G07C5/00 G08G1/00 G08G1/01 G08G1/08 G08G1/087 G08G1/09 G08G1/0965 G08G1/0967 G08G1/0968 H04Q9/00 (Advanced/Invention)

CPC: G08G1/08 G08G1/0133 G08G1/087 G08G1/0112 G08G1/0116 G08G1/0145 G08G1/0141 G06K7/10475 H04Q9/00 G08G1/0968 G01C21/3691 G05D1/0287 G05D1/0285 G01C21/3697 H04Q2209/47 G01C21/3415 G08G1/0965 G08G1/096725 G08G1/096741 G08G1/096775 G08G1/096816 G08G1/096844 G08G1/205

US class: 1/1 340/905 701/117

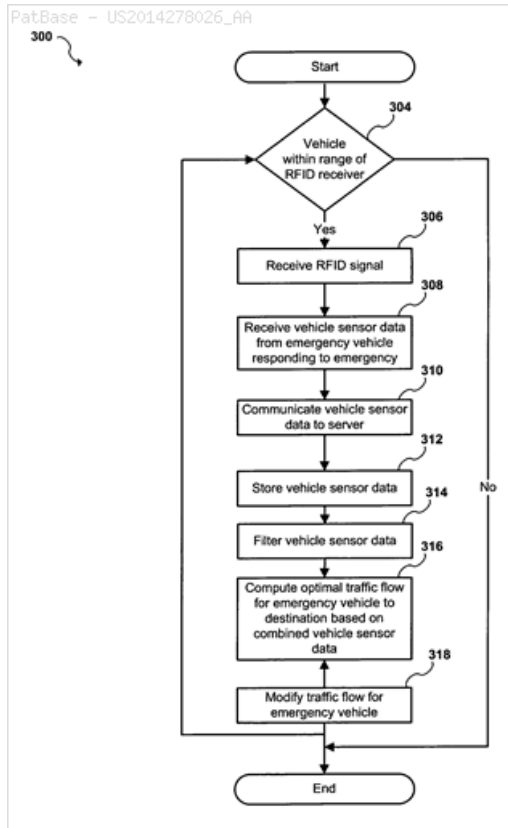
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Abstract:

An apparatus and system for monitoring and managing traffic flow. The system includes a plurality of remote sensor devices arranged in a plurality of vehicles, a plurality of remote communication devices arranged along one or more roadways and in communication with the plurality of remote sensor devices, a central server, a network interface in communication with the central server and the plurality of remote communication devices over a network, and a shared database in communication with the central server. The central server is configured to receive traffic data from the plurality of remote sensor devices over the network, update traffic data in the shared database, periodically calculate an optimal traffic flow for one or more of vehicles traveling along the one or more roadways based on the updated traffic data, and transmit timing adjustments over the network to one or more traffic light intersections based on the optimal traffic flow calculations. The network interface is configured to send and receive traffic data, wherein the traffic data includes vehicle location information.



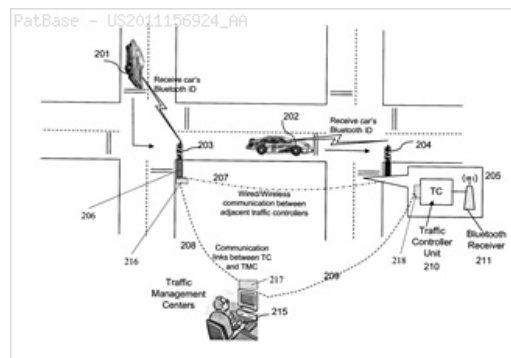
7) Family number: 48853617 (US2011156924A)

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Title:	ESTIMATION OF TRAVEL TIMES USING BLUETOOTH																																							
Priority:	US20090255981P 20091029		US20100909909 20101022		EP20100189006 20101027																																			
Family:	<table><thead><tr><th></th><th>Publication number</th><th>Publication date</th><th>Application number</th><th>Application date</th></tr></thead><tbody><tr><td></td><td>DE602010004412 D1</td><td>20130228</td><td>DE201060004412T</td><td>20101027</td></tr><tr><td></td><td>EP2320403 A2</td><td>20110511</td><td>EP20100189006</td><td>20101027</td></tr><tr><td></td><td>EP2320403 A3</td><td>20110727</td><td>EP20100189006</td><td>20101027</td></tr><tr><td></td><td>EP2320403 B1</td><td>20130102</td><td>EP20100189006</td><td>20101027</td></tr><tr><td></td><td>US2011156924 AA</td><td>20110630</td><td>US20100909909</td><td>20101022</td></tr><tr><td></td><td>US8519868 BB</td><td>20130827</td><td>US20100909909</td><td>20101022</td></tr></tbody></table>						Publication number	Publication date	Application number	Application date		DE602010004412 D1	20130228	DE201060004412T	20101027		EP2320403 A2	20110511	EP20100189006	20101027		EP2320403 A3	20110727	EP20100189006	20101027		EP2320403 B1	20130102	EP20100189006	20101027		US2011156924 AA	20110630	US20100909909	20101022		US8519868 BB	20130827	US20100909909	20101022
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	EP2320403 A2	20110511	EP20100189006	20101027																																				
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Probable Assignee:	SIEMENS IND INC																																							
Assignee(s):(std):	MILLER DAVID DODD ; NADEEM TAMER M ; SIEMENS CORP ; SIEMENS IND INC																																							
Assignee(s):	SIEMENS AG																																							
Inventor(s):(std):	MILLER DAVID DODD ; NADEEM TAMER M																																							
Inventor(s):	NADEEM TAMER M PLAINSBORO ; MILLER DAVID DODD AUSTIN																																							
Agent(s):	WHEATLEY ALISON CLARE; DONALD B																																							
Designated states:	AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR																																							
International class (IPC 8-9):	G08G1/01 G08G1/09 G08G1/095 (Advanced/Invention)																																							
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US class:	340/905 340/905P 340/907 340/907S 340/909 340/933 701/117 701/119																																							
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Abstract:

Methods for estimating travel time using at least two remote systems to record the times amps associated with obtaining identifying information of a wireless Bluetooth enabled, or other WPAN technology, electronic device in a vehicle. A remote system in one embodiment is a Bluetooth enhanced traffic controller. Characteristics of Bluetooth technology, such as a unique address for each Bluetooth capable device are used to detect a vehicle with a Bluetooth device by at least a first and a second remote system. Vehicle identifying data including at least a time stamp is transmitted by the remote systems to a central system. The central system determines a travel time, or an estimated travel delay. Travel time related data is provided by the central system to a display, such as a variable or dynamic message sign.



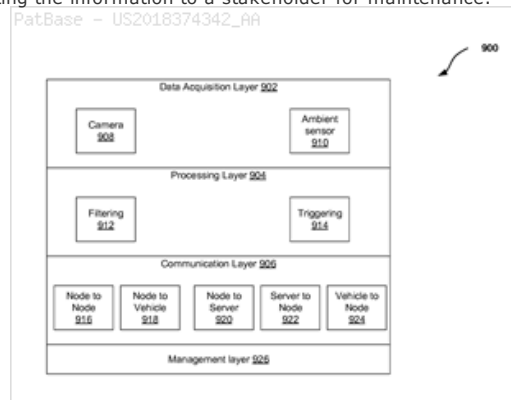
8) Family number: 66281620 (US2018374342A)

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Title:	WIRELESS MESH NETWORK DISTRIBUTED VISION TRAFFIC MARKER AND METHOD THEREOF																												
Priority:	US20150273661P 20151231		US20160063645 20161230		WO2016EP82904 20161230																								
Family:	<table><thead><tr><th>Publication number</th><th>Publication date</th><th>Application number</th><th>Application date</th></tr></thead><tbody><tr><td> CN108476553 A</td><td>20180831</td><td>CN201680077122</td><td>20161230</td></tr><tr><td> EP3398397 A1</td><td>20181107</td><td>EP20160822707</td><td>20161230</td></tr><tr><td> JP2019504561 T2</td><td>20190214</td><td>JP20180534571T</td><td>20161230</td></tr><tr><td> US2018374342 AA</td><td>20181227</td><td>US20160063645</td><td>20161230</td></tr><tr><td> WO17114940 A1</td><td>20170706</td><td>WO2016EP82904</td><td>20161230</td></tr></tbody></table>					Publication number	Publication date	Application number	Application date	 CN108476553 A	20180831	CN201680077122	20161230	 EP3398397 A1	20181107	EP20160822707	20161230	 JP2019504561 T2	20190214	JP20180534571T	20161230	 US2018374342 AA	20181227	US20160063645	20161230	 WO17114940 A1	20170706	WO2016EP82904	20161230
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 CN108476553 A	20180831	CN201680077122	20161230																										
 EP3398397 A1	20181107	EP20160822707	20161230																										
 JP2019504561 T2	20190214	JP20180534571T	20161230																										
 US2018374342 AA	20181227	US20160063645	20161230																										
 WO17114940 A1	20170706	WO2016EP82904	20161230																										
Probable Assignee:	ROBERT BOSCH GMBH																												
Assignee(s):(std):	BOSCH GMBH ROBERT																												
Assignee(s):	ROBERT BOSCH GMBH																												
Inventor(s):(std):	VANDERHAEGEN JOHAN ; FARAJPOUR POUYA ; LAJEVARDI PEDRAM ; KAVUSI SAM																												
Agent(s):	MORITA HIROSHI																												
Designated states:	AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW																												
International class (IPC 8-9):	G08G1/01 G08G1/04 H02J5/00 H04W4/38 H04W4/44 H04W84/18 H04W88/16 (Advanced/Invention); H02J5/00 (Advanced/Non-invention)																												
CPC:	G08G1/0116 H04W4/38 G08G1/0145 H04W88/16 G08G1/04 H04W84/18																												
US class:	1/1 701/117																												
Classification Explorer																													
Cited documents:	WO15150853 A1, WO15150853, US2014203758, US2010254282, JP2015170914, EP2427022 A1, EP2427022, EP2151907 A2, EP2151907.																												

Abstract:

A vision traffic marker network system includes a management system and a plurality of self-powered wireless traffic nodes configured to collect data from a wireless mesh network. Each wireless traffic node is configured to function as a mesh network traffic node and in each mesh network traffic node, the mesh network traffic node is configured to exchange data between the traffic nodes. Each wireless traffic node in the vision traffic marker system is communicatively coupled to any server and client machine. The management system includes a data acquisition layer, a processing layer, a communication layer, and a management layer. The acquisition layer is configured to receive data from the plurality of wireless traffic nodes and transmit the acquired data to the processing layer so that the acquired data is processed and filtered before the data is broadcasted and distributed the plurality of wireless traffic nodes which in turn exchange or share the data with any server and client machine. The management layer is configured to perform at least one of the function including: managing and controlling other layers, assigning each node with a role to perform a specific function, and reporting the information to a stakeholder for maintenance.



9) Family number: 66281625 (US2018357895A)

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Title:	INTELLIGENT DISTRIBUTED VISION TRAFFIC MARKER AND METHOD THEREOF			
Priority:	US20150273637P 20151231	US20160062554 20161230	WO2016EP82914 20161230	

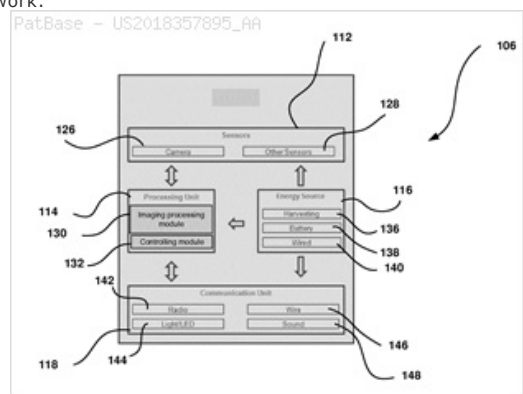
Family:

Publication number	Publication date	Application number	Application date
CN108431879 A	20180821	CN201680077132	20161230
EP3398182 A1	20181107	EP20160823017	20161230
JP2019500702 T2	20190110	JP20180534572T	20161230
US2018357895 AA	20181213	US20160062554	20161230
WO17114947 A1	20170706	WO2016EP82914	20161230

Probable Assignee: BOSCH GMBH ROBERT
Assignee(s):(std): BOSCH GMBH ROBERT
Assignee(s): ROBERT BOSCH GMBH
Inventor(s):(std): VANDERHAEGEN JOHAN ; FARAJPOUR POUYA ; LAJEVARDI PEDRAM ; KAVUSI SAM
Agent(s): ISARPATENT; MORITA HIROSHI
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): E01F9/30 E01F9/50 E01F9/553 G08G1/01 G08G1/017 G08G1/02 G08G1/054 H04W84/18 (Advanced/Invention)
CPC: H04W84/18 G08G1/02 E01F9/30 E01F9/553 G08G1/0116 G08G1/0133 G08G1/0175 G08G1/054
US class: 1/1 340/933
[Classification Explorer](#)
Cited documents: US2013275032 AA, US2010254282 AA, US2010254282, US2006227011 AA, JP2012038089, JP2009251876, JP2008299580, EP1149371 A1,

Abstract:
A vision traffic marker network system comprises a plurality of vision traffic markers or traffic nodes configured to capture information such as an event, an environment, a profile, or a condition of an object such as vehicle, human, combination thereof, or the like, for example. The environment information may be time of day, day of week, weather, traffic condition, and the like. The nodes may be one of a traffic node, an ambient node, a repeater, a gateway, or a combination thereof. These nodes are arranged in network neighborhoods and configured to communicate with at least one of the communication networks with at least one of the vision traffic markers or nodes, a control system, the automotive, a server, a global navigation system, other non-vision devices, traffic lights, street lights, electronic devices, or combination thereof, via one more links, either wirelessly or wired communication. The vision traffic marker network system analysis, process, distribute, and report the information to any vision traffic marker network system, client machines, and a server over a network.



10) Family number: 64277751 (US2016358479A) © PatBase

Title: METHOD AND APPARATUS FOR GENERATING VEHICLE MANEUVER PLANS
Priority: US20150732233 20150605 WO2016IB00863 20160603
Family:

Publication number	Publication date	Application number	Application date
EP3304516 A1	20180411	EP20160738544	20160603
US2016358479 AA	20161208	US20150732233	20150605
US9978284 BB	20180522	US20150732233	20150605
WO16193819 A1	20161208	WO2016IB00863	20160603

Probable Assignee: HERE GLOBAL BV
Assignee(s):(std): HERE GLOBAL BV
Inventor(s):(std): RIEDELSHEIMER NORBERT ; KROLLER ALEXANDER
Agent(s): POTTER CLARKSON LLP; DITTHAVONG AND STEINER PC; KHAN SAIFUL
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): G01C21/34 G08G1/00 G08G1/01 H04L29/08 (Advanced/Invention)
CPC: H04L67/12 G08G1/22 G01C21/34 G08G1/0112 G08G1/0145
US class: 1/1 701/117
[Classification Explorer](#)
Cited documents: US8374594 BB, US2015100225 AA, US2014376777 AA, US2014057598 AA, US2010285772 AA, US2010254282 AA, US2010216498 AA, US2009287527 AA, US2009073912 AA, US2007288163 AA, US2004228348 AA, US2004068393 AA, US2002107634 AA,
Forward Citations: US9874877, US9761137, US2017010124, US2016273930, US10386855, US10339810, US10317897, US10262529, US10168424, US10101744, US10077989,

Abstract:

An approach is provided for generating maneuver plans for one or more vehicles. A maneuvering platform processes location information, context information, or a combination thereof associated with a vehicle to determine at least one cell of a wireless communication network associated with a current location of the vehicle. The maneuvering platform further assigns the vehicle to a cluster associated with the at least one cell based on an establishment of a communication link between an access node associated with the vehicle and the at least one cell, an association between the current location of the vehicle, the access node associated with the vehicle, or a combination thereof and a geographic coverage range of the at least one cell or a combination thereof.

