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(54) Title: MOBILE TERMINAL RELAYING OF EVENT NOTIFICATIONS IN AN INTELLIGENT TRANSPORTATION SYSTEM

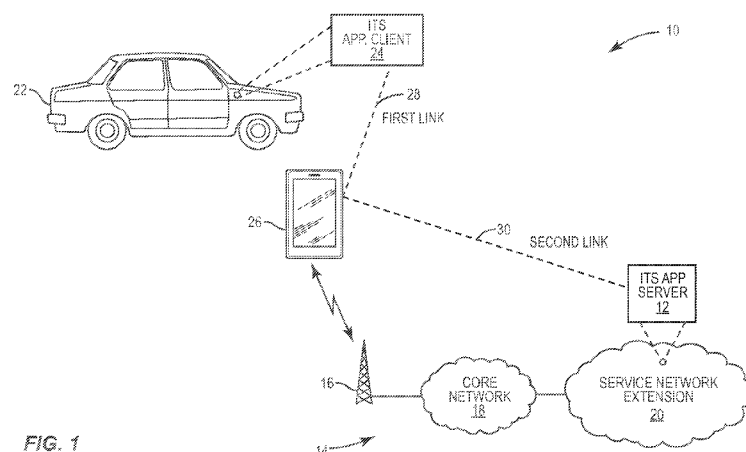


FIG. 1

(57) Abstract: Embodiments include a mobile terminal (26) and an intelligent transportation system (ITS) application client (24) as associated with a vehicle (22). The mobile terminal (26) establishes a first communication link (28) between the mobile terminal (26) and the ITS application client (24). The mobile terminal (26) also establishes a second communication link (30), via an infrastructure-based wireless communication network (14), between the mobile terminal (26) and an ITS application server (12). Having established these links, the mobile terminal (26) relays one or more event notification messages between the ITS application client (24) and the ITS application server (12) via the first and second links (28, 30). These one or more messages each indicate the occurrence of an event pertinent to travel conditions. Relaying of messages by the mobile terminal (26) in this way advantageously allows the ITS application client (24) associated with the vehicle (22) to send messages to and/or receive messages from the ITS application server (12), even if the vehicle (22) itself is not configured to connect to the infrastructure-based network (14).



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A. CLASSIFICATION OF SUBJECT MATTER INV. H04W4/02 G08G1/0967 ADD.				
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B. FIELDS SEARCHED				
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-Internal, WPI Data				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	US 2007/167147 A1 (KRASNER NORMAN F [US] ET AL) 19 July 2007 (2007-07-19) paragraphs [0041], [0043], [0047], [0056], [0068]; figure 1 -----	1-24		
A	US 2011/018736 A1 (CARR JEFFREY THOMAS [US]) 27 January 2011 (2011-01-27) paragraphs [0012], [0017] - [0019]; figure 1b ----- -/--	1-24		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.				
* Special categories of cited documents : <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; vertical-align: top;"> "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed </td> <td style="width: 50%; border: none; vertical-align: top;"> "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family </td> </tr> </table>			"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family			
Date of the actual completion of the international search 22 November 2013	Date of mailing of the international search report 05/12/2013			
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Créchet, Patrick			

INTERNATIONAL SEARCH REPORT

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>ILIAS LEONTIADIS ET AL: "Publish/subscribe notification middleware for vehicular networks", PROCEEDINGS OF THE 4TH ON MIDDLEWARE DOCTORAL SYMPOSIUM , MDS '07, 1 January 2007 (2007-01-01), pages 1-6, XP55081861, New York, New York, USA DOI: 10.1145/1377934.1377936 ISBN: 978-1-59-593933-3 the whole document</p> <p style="text-align: center;">-----</p>	1-24

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2007167147 A1	19-07-2007	US 2007167147 A1	19-07-2007
		US 2009286504 A1	19-11-2009

US 2011018736 A1	27-01-2011	NONE	
