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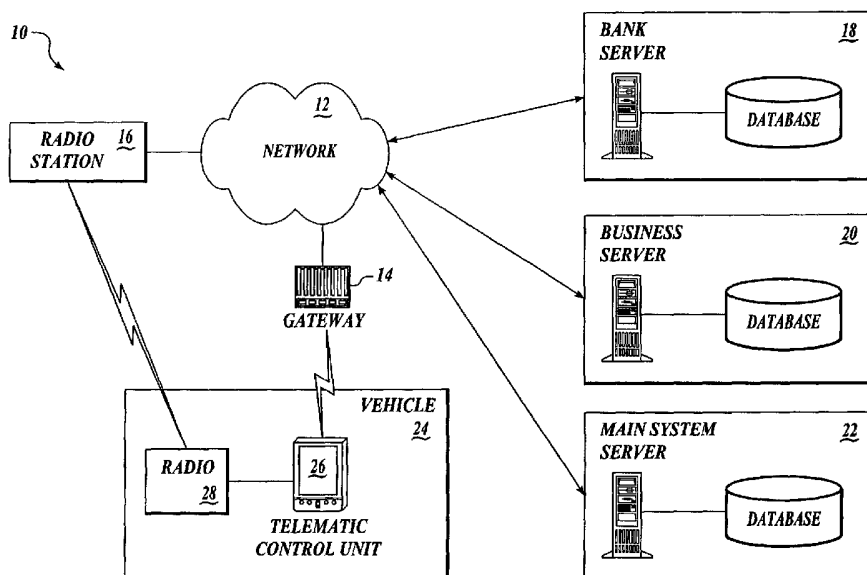
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(54) Title: SYSTEM AND METHODS FOR WIRELESS DATA COMMUNICATION



(57) Abstract: A system and method (Fig.1) for providing services to users in vehicles based on radio broadcasts received by a vehicle's radio receiver (28). The system (10) includes a computer-based vehicle unit (24) located in a vehicle, a gateway (14) configured to wirelessly send and receive information to and from the vehicle unit (24), and a computer-based server (18, 20, 22) in communication with the gateway (14) over a network (12). The vehicle unit (24) includes a user interface component that presents the received content and radio broadcast and records user requests. The server (18, 20, 22) processes the requests and sends confirmation messages back to the unit (24). The vehicle unit (24) wirelessly receives a radio broadcast from a radio station (16), transmits user requests and vehicle information to the server (22) via the gateway (14), and receives content back from the server.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/09487

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06F 17/60, H04M 11/00

US CL : 705/26, 705/35, 455/14, 370/313

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 705/26, 705/35, 455/414, & 370/313

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 5,867,780 A(MALACKOWSKI et al) 2 February 1999 (02.02.1999), col.7, line 36- col.13, line 55.	1-7, 9-15, 17-23, 25- 33, 35-51, 53-54 -----
Y	US 6,206,283 B1 (BANSAL et al.)27 March 2001 (27.03.2001), entire document	8, 16, 24, 34, and 52. 8,16,24,34, and 52
X	STIRLING, A, Mobile multimedia platforms, Vehicular Technology Conference, 2000. IEEE-VTS Fall VTC 200. 52nd, On pages(s):2541-2548 vol.6, 24-28 Sept, 2000 Boston, MA, USA, entire document	1-7, 9-15, 17-23, 25- 33, 35-51, 53-54
X	JAMEEL et al., Interest Multimedia on Wheels: Connecting Cars to Cyberspace, Intelligent Transportation System, 1997.ITSC'97., IEEE Conference, On pages(s):637- 642, 9-12 Nov.1997, Boston, MA, USA, entire document.	1-7, 9-15, 17-23, 25- 33, 35-51, 53-54
A	US 5,732,074 A(SPAUR et al) 24 March 1998 (24.03.1998), entire document.	1-7, 9-15, 17-23, 25- 33, 35-51, 53-54



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
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"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		

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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	YILIN ZHAO, Efficient and reliable data transmission for cellular-and-GPS-based mayday systems, Intelligent Transportation System, 1997.ITSC'97., IEEE Conference, On pages(s):555-559, 9-12 Nov.1997, Boston, MA, USA, entire document	1-7, 9-15, 17-23, 25-33, 35-51, 53-54
A	NUSSER, et al., Bluetooth-based wireless connectivity in an automotive environment., Vehicular Technology Conference, 2000. IEEE-VTS Fall VTC 200. 52nd, On pages(s):2541-2548 vol.6, 24-28 Sept, 2000 Boston, MA, USA, entire document.	1-7, 9-15, 17-23, 25-33, 35-51, 53-54 ,

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Continuation of Item 4 of the first sheet:

Title is long. Revised Title is :

SYSTEM AND METHODS FOR WIRELESS DATA COMMUNICATION

Continuation of B. FIELDS SEARCHED Item 3:

East Database for USPatents, USPG-PUB, EPO, JPO, & Derwent
IEEEExplore, Proquest Database & Corporate Resource Net database