(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**

**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**

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
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<tbody>
<tr>
<td>Y</td>
<td>US 6,206,283 B1 (BANSAL et al.) 27 March 2001 (27.03.2001), entire document</td>
<td>8, 16, 24, 34, and 52.</td>
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</table>

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- **"B"** earlier application or patent published on or after the international filing date
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- **"A"** document member of the same patent family

Date of the actual completion of the international search: 27 May 2002 (27.05.2002)

Date of mailing of the international search report: 28 JAN 2003

Name and mailing address of the ISA/US

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Form PCT/ISA/210 (second sheet) (July 1998)
### C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
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<tr>
<th>Category</th>
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</table>
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