

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
10 April 2003 (10.04.2003)

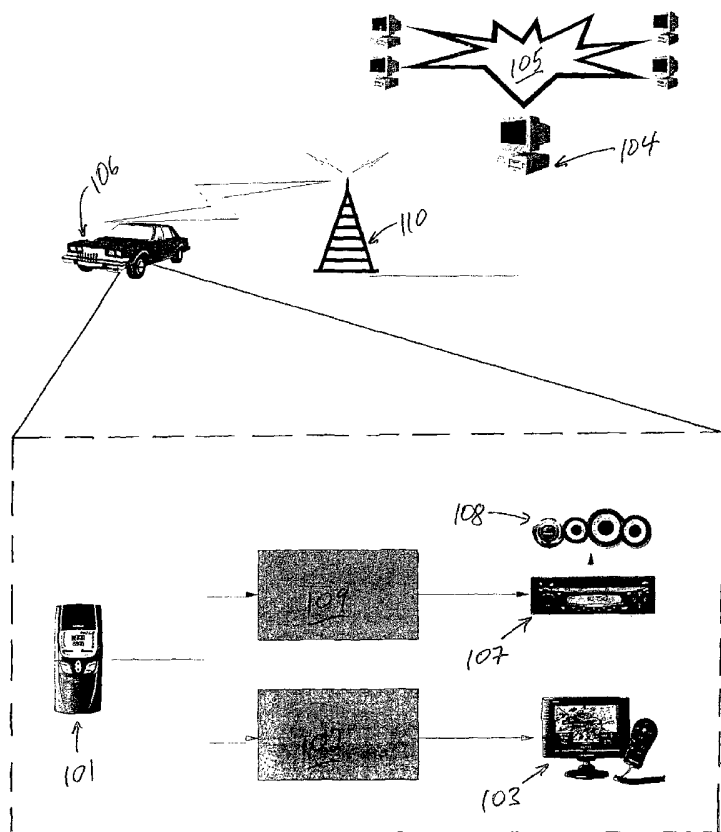
PCT

(10) International Publication Number
WO 03/030560 A3

- (51) International Patent Classification⁷: **G01C 21/26** [DE/US]; 71 Eldora Drive, Mountain View, CA 94041 (US).
- (21) International Application Number: PCT/US02/30274
- (22) International Filing Date: 24 September 2002 (24.09.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 09/967,729 28 September 2001 (28.09.2001) US
- (71) Applicant (for all designated States except US): **ROBERT BOSCH GMBH** [DE/DE]; Postfach 30 20 02, 70442 Stuttgart (DE).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **FUNK, Karsten**
- (74) Agent: **MAYER, Richard, L.**; Kenyon & Kenyon, One Broadway, New York, NY 10004 (US).
- (81) Designated States (national): JP, KR, US.
- (84) Designated States (regional): European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR).
- Published:
— with international search report
— with amended claims
- (88) Date of publication of the international search report: 16 October 2003

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.

(54) Title: CELLPHONE INTERFACING DEVICE FOR MOBILE UNITS



(57) Abstract: A system for converting a voice input requested location to a destination location useable by a navigation device in a vehicle. The system includes a mobile communicator (101), preferably a mobile phone, in communication with a base station and a voice portal server (104). The voice portal server (104) identifies through a voice recognition algorithm a destination location corresponding to a requested location verbally input by the vehicle occupant. The voice portal server may access the internet for additional information. The voice portal server may prompt the occupant to respond to interrogatories to narrow the possible matches for the requested location to one destination location. The destination location is transmitted from the voice portal server via the base station and via the mobile communicator to a decoder (102) in an encoded format, preferably in DTMF (Dual Tone Multi-Frequency) format. The decoder decoding the destination location and transmitting the destination location to a navigation device. The navigation device plotting a selected route from the current location to the destination location. A method of using the system is provided. An in-vehicle apparatus using the system is also provided.



WO 03/030560 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/30274

| | | |
|--|---|--|
| A. CLASSIFICATION OF SUBJECT MATTER | | |
| IPC(7) : G01C 21/26 | | |
| US CL : 701/207, 213 | | |
| 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. : 701/207, 208, 209, 213, 210, 211, 212, 201, 200; 342/375.01, 357.08; 455/456 | | |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched NONE | | |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) NONE | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | |
| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| X,P | US 6,393,292 B1 (LIN) 21 May 2002, see entire document. | 1, 11, 12, 13, 27, 37 AND 38 |
| A,P | US 6,438,382 B1 (BOESCH ET AL) 20 August 2002. | |
| <input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex. | | |
| * Special categories of cited documents: | | |
| "A" | document defining the general state of the art which is not considered to be of particular relevance | "T" later documents 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 |
| "E" | earlier application or patent published on or after the international filing date | "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 |
| "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) | "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 |
| "O" | document referring to an oral disclosure, use, exhibition or other means | "&" document member of the same patent family |
| "P" | document published prior to the international filing date but later than the priority date claimed | |
| Date of the actual completion of the international search 29 October 2002 (29.10.2002) | | Date of mailing of the international search report 17 JUN 2003 |
| Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230 | | Authorized officer Richard M. Camby Telephone No. (703) 308-1113 |

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/30274

Continuation of Item 4 of the first sheet:

The title is more than 7 words.

Cellphone Interfacing Device For Mobile Units