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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: VEHICLE NAVIGATION SYSTEM WITH IMPROVED TURN NOTIFICATION CAPABILITIES

(57) Abstract: A navigation system for a vehicle for providing improved notification of upcoming turns along a given route is disclosed. Such turn notifications preferably involve activating turn signal indicators within or external to the vehicle in response to turn notification signals supplied by the navigation system. Such preexisting turn signal indicators include the dedicated turn signal indicators normally present within or on the vehicle, such as the turn signal indicators on the instrument cluster on the vehicle's dashboard; the external turn signal lights typically proximate the front and rear bumpers of the vehicle; the turn signal indicators integrated with the side mirror, or similar indicators. Because preexisting turn signal indicators are used, turn notification is made simpler and more economical as additional indicators or indicator systems are not necessary. Moreover, using indicators interior and exterior to the vehicle benefits both the vehicle occupant and well as other vehicles in the vicinity of the occupant's vehicle to inform of the occupant's intended route. In addition to using preexisting dedicated turn signal indicators, a heads up display can be used to display the turn notification, which is beneficial because it is substantially within the occupant's line of sight.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

 IPC(7) : G06F 19/00, 17/00; G01C 21/30
 US CL : 701/211, 208, 213, 36, 209; 342/357.06, 357.13; 340/988, 990, 995

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.: 701/211, 208, 213, 36, 209; 342/357.06, 357.13; 340/988, 990, 995

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)

EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
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<th>Relevant to claim No.</th>
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<td>US 6405131 B1 (Bartee) 11 June 2002, Abstract, figs. 1-10, columns 3-7</td>
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<td>X</td>
<td>US 2004/0104842 A1 (Drury et al) 3 June 2004, fig. 2A, sections 0092-0102</td>
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<td>US 6321161 B1 (Herbst et al) 20 November 2001, figs. 5, 7, 8; columns 5-12</td>
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Further documents are listed in the continuation of Box C.

See patent family annex.

Date of the actual completion of the international search
25 July 2005 (25.07.05)

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10 AUG 2005

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