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(54) Title: COMFORT RIDE VEHICLE CONTROL SYSTEM

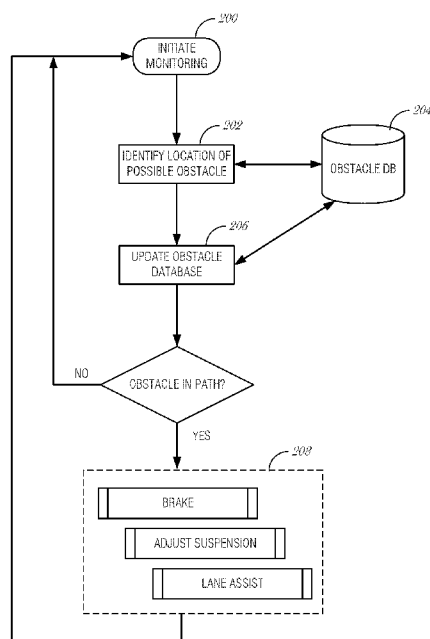


FIG. 2

(57) Abstract: Various systems and methods for providing a vehicle control system are described herein. A system for managing a vehicle comprises: a vehicle control system of a vehicle having access to a network, including: a communication module to interface with at least one of: a mobile device, the vehicle, and environmental sensors coupled to the vehicle; and a configuration module to identify a mitigation operation to be taken when predetermined factors exist; wherein the vehicle control system is to identify a potential obstacle in a travel route of the vehicle and initiate a mitigation operation at the vehicle.



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A. CLASSIFICATION OF SUBJECT MATTER

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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)

B60W 30/14; G08G 1/16; B60W 30/085; B60G 17/019; B60W 10/20; G01B 21/30; B60W 30/16; B60G 17/015; B60R 21/00; G01M 99/00; B60W 40/02; B60W 10/22; G05D 1/00; G05D 1/08

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

Korean utility models and applications for utility models
Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & keywords: vehicle control, obstacle, network, preceding vehicle, trajectory, and suspension

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2009-0228184 A1 (UEYAMA et al.) 10 September 2009 See paragraphs [0046]-[0049] and figures 2, 3.	20, 24, 25
Y A		1-10, 12-19, 21-23 11
Y	US 2015-0260614 A1 (FORSLOF, LARS) 17 September 2015 See paragraphs [0024], [0027], [0028], [0034], [0035] and figures 1-3.	1-10, 12-19, 21, 22
Y	JP 2003-276538 A (TOYOTA CENTRAL RES. & DEV. LAB., INC.) 02 October 2003 See abstract, paragraph [0016], and figure 1.	9, 10, 23
Y	US 2013-0338878 A1 (FRITZ et al.) 19 December 2013 See claims 8, 10.	12, 13
Y	US 2015-0343873 A1 (DR. ING. H.C. F. PORSCHE AKTIENGESELLSCHAFT) 03 December 2015 See paragraphs [0014]-[0017], [0021], [0022] and figure 1.	15, 16

Further documents are listed in the continuation of Box C.

See patent family annex.

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"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

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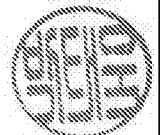
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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