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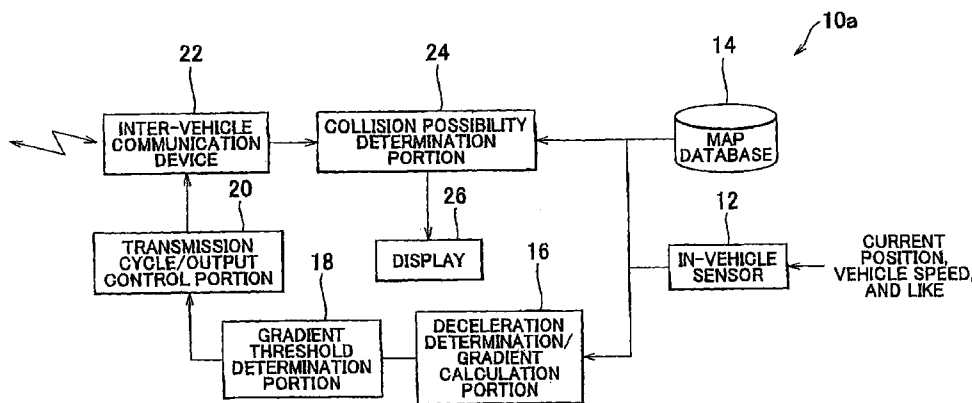
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(54) Title: INTER-VEHICLE COMMUNICATION SYSTEM AND METHOD FOR INDICATING SPEED AND DECELERATION

FIG. 1



(57) Abstract: A transmission cycle/output control portion (20) controls at least one of a transmission output of an inter-vehicle communication device (22) and a frequency of transmission from the inter-vehicle communication device (22) according to the speed of a host vehicle (100) detected by an in-vehicle sensor (12) so that the at least one of the transmission output and the frequency of transmission is set to a lower value as the speed becomes lower. In the case where the in-vehicle sensor (12) and a deceleration determination/gradient calculation portion (16) determine that the host vehicle (100) decelerates, the transmission cycle/output control portion (20) executes a control so that the at least one of the transmission output and the frequency of transmission is high as compared to the case where it is determined that the host vehicle (100) does not decelerate. Therefore, when the host vehicle (100) does not decelerate, communication traffic is reduced. When the host vehicle (100) decelerates, necessary communication is performed.

WO 2008/104886 A3

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER  
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B. FIELDS SEARCHED

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G08G

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 practical, search terms used)  
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2000 090395 A (MARUYASU & CO LTD; TOYOTA MOTOR CORP) 31 March 2000 (2000-03-31) cited in the application	1,8-11, 14,15
A	abstract	12,16
Y	GB 2 358 506 A (LUCENT TECHNOLOGIES INC [US]) 25 July 2001 (2001-07-25) abstract; figures 1-3 page 3, line 6 - line 27 page 5, line 18 - line 27 page 7, line 15 - page 8, line 4 page 10, line 24 - page 11, line 2	1,8-11, 14,15 12,16
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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	US 2005/187701 A1 (BANEY DOUGLAS M [US]) 25 August 2005 (2005-08-25) paragraph [0031] - paragraph [0032]; figure 6 paragraph [0053] paragraph [0060] - paragraph [0065] -----	1-17

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2000090395	A	31-03-2000	NONE
GB 2358506	A	25-07-2001	JP 2001266291 A 28-09-2001 KR 20010076344 A 11-08-2001 US 7382274 B1 03-06-2008
US 2005187701	A1	25-08-2005	NONE