

Title (en)
Bumping prevention system

Title (de)
Kollisionsvermeidungssystem

Title (fr)
Système d'évitement de collision

Publication
EP 1096459 A3 20020724 (EN)

Application
EP 00309507 A 20001027

Priority
JP 30509599 A 19991027

Abstract (en)
[origin: EP1096459A2] With the bumping prevention system according to the present invention, when a vehicle (7) passes by a fixed point information detection support facility (1) and enters the service area (24), the vehicle's driver recognizes availability of the service for provision of information, alarms, and controls for prevention of bumping when entering a crossing upon reception of a signal indicating the service area (24), and starts computing a current position of the vehicle by grasping the current running position of the vehicle and a distance up to a priority road. On the other hand, the system control system acquires information concerning vehicles (25) on the priority road from the on-road infrastructure, and provides the driver, when there is any vehicle (25) entering the crossing on the priority road, with the information concerning the crossing as well as the vehicle (25) entering the crossing at a point where the driver can brake the vehicle (7) with sufficient time allowance for stopping the vehicle in front of the crossing. Further when it is determined that there is the possibility of bumping with the vehicle (25) entering the crossing, the system gives an alarm indicating the possibility of bumping to the driver at a point where the driver can brake the vehicle (7) in an emergency with time allowance for stopping the vehicle (7) in front of the crossing. When it is determined that there is the possibility of bumping with another vehicle (25) entering the crossing, the system continuously provides controls for decelerating and stopping the vehicle (7) in a range from a point where the system can decelerate the vehicle (7) in an emergency with time allowance for stopping the vehicle (7) in front of the crossing up to a point in front of the crossing. <IMAGE>

IPC 1-7
G08G 1/16

IPC 8 full level
G08B 21/24 (2006.01); **B60R 21/00** (2006.01); **B60W 30/00** (2006.01); **G08B 25/04** (2006.01); **G08G 1/09** (2006.01); **G08G 1/16** (2006.01)

CPC (source: EP)
G08G 1/164 (2013.01)

Citation (search report)

- [X] US 5940010 A 19990817 - SASAKI KENJI [JP], et al
- [XA] DE 19844647 A1 19990408 - TOYOTA MOTOR CO LTD [JP]
- [XA] US 6049295 A 20000411 - SATO JUN [JP] & JP H11175896 A 19990702 - FUJITSU LTD
- [A] US 6292109 B1 20010918 - MURANO TAKAHIKO [JP], et al & JP H11110700 A 19990423 - TOYOTA MOTOR CORP
- [A] US 5448219 A 19950905 - YOSHIKAWA TAKASHI [JP], et al
- [A] US 5926114 A 19990720 - ANDREWS SCOTT [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 017, no. 354 (P - 1567) 5 July 1993 (1993-07-05)

Cited by
CN110799387A; CN104903172A; CN110956789A; CN111201556A; CN107867290A

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