

Title (en)
TRAFFIC PREEMPTION SYSTEM

Title (de)
VERKEHRS-PRÄEMPTIONSSYSTEM

Title (fr)
SYSTEME DE PRIORITE DE CIRCULATION

Publication
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Application
EP 04795158 A 20041012

Priority

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- US 51060303 P 20031010
- US 81107504 A 20040324

Abstract (en)

[origin: WO2006004565A2] A traffic preemption system is described that includes onboard equipment located on a vehicle and a fleet management center in communication with the onboard equipment. The fleet management center is also in communication with a traffic management center that is in communication with at least one intersection controller, which controls the signals displayed at a traffic intersection. In one embodiment, the invention includes a vehicle equipped with an onboard computer system capable of capturing diagnostic information, estimating the location of the emergency vehicle using information provided by a GPS receiver connected to the onboard computer system and transmitting the captured diagnostic information and estimated location using a wireless transmitter connected to the onboard computer system via a first wireless network. Also included is a fleet management computer system connected to a wireless receiver, where the fleet management computer system and wireless receiver are capable of receiving information transmitted by the on-board equipment, determining whether the received information is from a vehicle requiring intersection preemption and providing the estimated location of vehicles requiring intersection preemption to a traffic management computer system. The traffic management computer system is capable of receiving estimated locations of vehicles requiring intersection preemption from the fleet management computer system and forwarding preemption requests to intersection controllers via a second network.

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