MOBILE DEVICE FOR IDENTIFYING VEHICLES AND MANAGING PARKING LOTS

Description:

There are multiple applications where the identification of vehicles through their registration plate is required, for example for parking control, access to buildings, imposition of sanctions, etc. In most of these applications the identification system, given its dimensions or weight, is fixed or carried by a vehicle. However, it would be desirable to integrate a system with these features in a small and compact mobile device. A clear example of its application would be the case of an operator in charge of registering and imposing sanctions on badly parked vehicles on public roads. To do this, you must take note of the registration and fill in the sanction file with various information such as the place, date and time. It would be very useful, therefore, to have a system capable of simplifying and facilitating this task, performing most of these tasks automatically: automatically recognizing the vehicle's license plate, recording the place, date, time, collecting other vehicle data and its holder, and automatically print the notification of sanction. Thus, the present invention is a device that extends the benefits of conventional personal assistants (PDA and the like) to perform vehicle license plate recognition tasks, as well as the comprehensive management of operations that involve their control, such as the imposition of traffic sanctions, parking pricing processes, monitoring and statistical work, etc.

Keywords:
Identification, Vehicle, Parking Lot, Sanctions, Traffic, Positioning, Gprs, Umts, Gsp, Galileo, Mobile

Sectors:
ICT, Engineering

Areas:
Hardware / Devices / Components, Software / Procedures, Internet and Networks, Communications

Advantages:

Among the advantages of the present invention are: • Automatically recognizes the vehicle's license plate using specifically developed software. • Saves information about your position using a global positioning system (GPS, Galileo or similar). • Access via wireless connection based on public infrastructure (GPRS, UMTS, etc.) to information about the road on which the vehicle is located, as well as to corporate servers where information is obtained from it. • A small printing unit can be connected in order to be able to issue a printed copy of the sanctions on-site, including the image of the vehicle.

Uses and Applications:

The present invention is useful for the management of parked vehicles, as well as for the integral management of the operations that this activity entails, such as the sanction of fines, parking pricing processes, monitoring, etc. In a simple and comfortable way for the operator.

Patent Number: ES2308920
Applicants: Universidad De Málaga
Inventors: Antonio Javier Gonzalez Jimenez, Juan Miguel López Fernández, Cipriano Galindo Andrades, Vicente M. Arévalo Espejo, Jose Luís Blanco Claraco, Juan Antonio Fernandez Madrigal, Gregorio Ambrosio Cestero
Filing Date: 04/05/2007
Protection Level: National (Spain)
Processing Status: Spanish patent