ABSTRACT

ELECTRONIC TRAFFIC TARIFF RECEPTION SYSTEM AND VEHICLE IDENTIFICATION APPARATUS

An electronic traffic tariff reception system can identify a vehicle traveling freely on a road having a plurality of lanes clearly and impose a predetermined debit value on the vehicle in the non-stop manner and in the cashless manner. Further, the system can photograph an image of an illegally passing vehicle. A vehicle identification apparatus can identify the vehicles traveling freely on the road having the plurality of lanes separately in a control point of the reception system.

An in-vehicle unit equipped with a smart card is mounted in a vehicle. An antenna for debiting process capable of performing radio communication with the in-vehicle unit is disposed. There are provided an antenna controller for causing the antenna for debiting process to receive personal information and vehicle information, a local controller for judging whether the information is normal or not or the vehicle is to be debited or not, and an apparatus for photographing an illegally passing vehicle.

The in-vehicle unit is mounted in each of vehicles and at least one or more antennas are disposed above the road in association with each lane. When radio communication with the in-vehicle unit is made by means of the antennas, the antennas are started in the time sharing multiple accessing method.

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