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ABSTRACT

VEHICLE-MOUNTED APPARATUS FOR ROAD-TO-VEHICLE COMMUNICATIONS
AND ROAD-TO-VEHICLE COMMUNICATION SYSTEM

A road-to-vehicle communication system capable of avoiding an increase in the size of each of vehicle-mounted apparatuses and easily confirming the contents of data stored in each vehicle-mounted apparatus on the on-road apparatus side when the transfer of information therebetween by radio communications is disabled. Except when communications are made between the on-road apparatus and the vehicle-mounted apparatus, it is judged whether data about the communications between the on-road apparatus and the vehicle-mounted apparatus should be written into an IC card according to write conditions. When the present state of a vehicle coincides with one of the write conditions, data stored in the vehicle-mounted apparatus is written into the IC card together with the present time on the vehicle-mounted apparatus side. Thus, the data stored in the vehicle-mounted apparatus can be transferred to the on-road apparatus together with time information indicative of the time at which the data has been written into the IC card. Whether the data stored in the IC card has been accurately written from the vehicle-mounted apparatus can be confirmed on the on-road apparatus side by reading the data in the IC card and the time information referred to above.

Figure 7: