

ABSTRACT

A time period required for acquiring location information is shorten without the need of provision of a new facility. In a location detecting system in which an on-vehicle device 1 is provided at each of a vehicle and other vehicles, the on-vehicle device 1 being mounted on a vehicle and including a location detecting unit 3 configured to detect a location of the vehicle, a communication unit 5 configured to perform communication, and a CPU unit 2 configured to control the location detecting unit 3 and the communication unit 5, each of the on-vehicle devices 1 includes a GPS trajectory information processing unit 4 configured to acquire GPS trajectory information of each of the vehicles, the communication unit 5 of the vehicle broadcasts requests for the GPS trajectory information, the communication units 5 of the other vehicles transmit the held GPS trajectory information to the communication unit 5 of the vehicle when a distance to the vehicle is equal to or less than a predetermined value, the GPS trajectory information processing unit 4 passes the GPS trajectory information from the other vehicles to the location detecting unit 3, and the location detecting unit 3 of the vehicle outputs the location information of the vehicle based on the GPS trajectory information.