

ABSTRACT

VEHICLE TRAFFIC CONTROL METHOD AND DEVICE FOR IMPLEMENTING SAME

The present invention relates to traffic control and, in particular, to traffic control at road intersections using traffic lights.

A method of traffic control at road intersections comprising using of traffic lights, as well as detection and identification of vehicles approaching an intersection. To detect and identify a vehicle crossing the pre-set boundaries, we suggest mounting vehicle detection nodes probing the surrounding area using radio-frequency signals. In their turn, vehicles should be equipped with nodes, or tags, allowing their identification. When a vehicle equipped with an identification tag enters the monitored area, the tag generates a response containing the codeword with identification data of the vehicle, which is received and decoded by detection nodes. The duration of the allowing signal is determined according to the time the vehicles, that have crossed the farther boundary during the last signal switching sequence, spent to cross the nearer boundary, and should not be shorter than that period.

Fig. 1