

ABSTRACT

An inter-vehicle wireless payment method employing a 5G communication network. The method comprises the followings steps: a requesting vehicle sending a payment request to a base station (S100); the base station searching for vehicle information of a friend vehicle of the requesting vehicle on the basis of the payment request (S200); the base station encrypting request information by means of the vehicle information of the friend vehicle and broadcasting the same (S300, 400); vehicles in a broadcast range of the base station decoding broadcast information by means of vehicle information of said vehicles, and upon successful decoding, the friend vehicle acting as a responding vehicle and acquiring the request information (S500); the responding vehicle generating payment information on the basis of the request information and sending the same to the base station, the base station sending the payment information to a payment platform, and the payment platform returning a payment result to the responding vehicle (S600); and the base station allocating a D2D communication channel to the requesting vehicle and the responding vehicle, and the responding vehicle and the requesting vehicle communicating via the D2D communication channel (S700). The disclosure achieves vehicle-to-vehicle communication and ensures payment security.