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Abstract:

Method and Devices for Identifying a Vehicle Using a Location

The invention relates to a method for identifying a vehicle using a predetermined location, comprising: carrying, on the vehicle, an onboard unit (10) that via radio repeatedly broadcasts status messages (16), which each indicate a current relative distance (A_i) of the onboard unit (10) from the predetermined location (5 - 8) and a radio identifier (pID) that changes after each or several status messages (16); receiving at least one status message (16) in a radio beacon (3); detecting a location usage of the vehicle (9) by evaluating the at least one status message (16) based on the relative distance (A_i) indicated therein; transmitting an identification request (22) from the radio beacon (3) to that onboard unit (10) which is addressed by way of the radio identifier (pID) from the at least one status message (16); receiving and conducting a legitimacy check (24) of the identification request (22) in the onboard unit (10) and, if the request (22) is legitimate, transmitting (25) a unique identification (uID) of the onboard unit (10) to the radio beacon (3), the unique identification remaining the same over several changes of radio identifier (pID). The invention further relates to a radio beacon (3) and to an onboard unit (10) for use with this method.

(FIG. 1)