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(54) Title: A METHOD OF COMMUNICATION BETWEEN A VEHICLE AND A WAYSIDE CONTROL UNIT FOR CONTROLLING AN INDUCTIVE ENERGY TRANSFER TO THE VEHICLE, A VEHICLE AND AN ARRANGEMENT

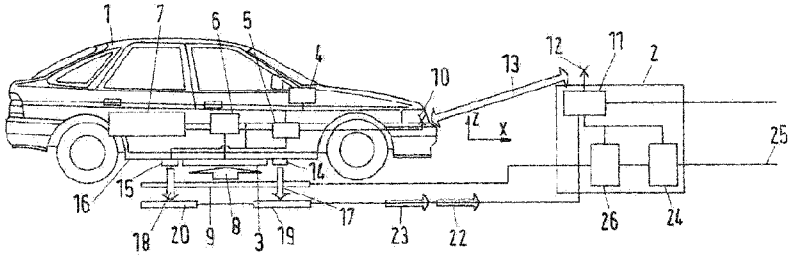


Fig.1

(57) Abstract: A method of communication between a vehicle and a wayside unit for controlling an inductive energy transfer to the vehicle, a vehicle and an arrangement The invention relates to a method of communication between a vehicle (1) and a wayside control unit (11) for controlling an inductive power transfer to the vehicle (1), wherein the control unit (11) controls a generation of an electromagnetic field by a primary unit (9) with a primary winding structure of a system for inductive power transfer, wherein the vehicle (1) comprises a secondary unit (3) with a secondary winding structure for receiving the alternating electromagnetic field, wherein charging-related data is transmitted in between the vehicle (1) and the control unit (11) via a first communication link (13), wherein the authentication-related data is transmitted from the vehicle (1) to the control unit (11) via a second communication link (17, 18), wherein the authentication-related data is used to authenticate the charging-related data, and a vehicle (1) and an arrangement of a vehicle (1) and a primary unit.

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