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(54) **Title:** METHOD FOR CONTROLLING A SYSTEM FOR THE AUTONOMOUS CHARGING OF AN ELECTRIC VEHICLE

(57) **Abstract:** The present invention relates to a method for controlling a system for the autonomous charging of an electric vehicle. The invention is also related to a system for the autonomous charging of an electric vehicle. The method generally comprises guiding a connector assembly towards a vehicle charging port by actuation of a robotic arm; allowing the robotic arm to transition from an unlocked state to a locked state; effecting the mating of the connector with the charging port by moving the connector assembly while monitoring and analysing operational and/or sensor data; and initiating a corrective action if analysis of the operational and/or sensor data indicates that corrective action is needed to allow the system to complete the mating of the connector with the charging port.



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