

Title (en)

RAPID CHARGING SYSTEM AND METHOD FOR ELECTRICALLY CONNECTING A VEHICLE TO A CHARGING STATION

Title (de)

SCHNELLLADESYSTEM UND VERFAHREN ZUR ELEKTRISCHEN VERBINDUNG EINES FAHRZEUGS MIT EINER LADESTATION

Title (fr)

SYSTÈME DE CHARGE RAPIDE ET PROCÉDÉ DE CONNEXION ÉLECTRIQUE D'UN VÉHICULE À UNE STATION DE CHARGE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2022111834A1] The invention relates to a rapid charging system for electrically driven vehicles, in particular electric buses or similar, and a method for establishing an electrically conductive connection between a vehicle and a stationary charging station, the rapid charging system comprising a contact device, a charging contact device (10) and a positioning device, wherein: the contact device or the charging contact device can be arranged on a vehicle; the charging contact device can be electrically contacted by the contact device in a contact position; the contact device can be positioned relative to the charging contact device in the longitudinal direction and/or transverse direction and brought into the contact position by means of the positioning device; the charging contact device has a charging contact element carrier (12) with charging contact elements (13); the charging contact element carrier is designed as a longitudinal rail that can be arranged in a direction of travel of the vehicle; each charging contact element forms a strip-type charging contact surface; the contact device has a contact element carrier with contact elements; each contact element forms a contact surface that is designed to be smaller than the charging contact surface; each contact element, in the contact position, can be electrically contacted with the charging contact elements to form contact pairs; and the charging contact device comprises a heating unit (35) by means of which the temperature of the charging contact elements can be controlled.

IPC 8 full level

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