Title (en)

METHOD FOR LOCKING A PLUG ARRANGED ON A CHARGING CABLE TO A MATING PLUG, AND CHARGING STATION FOR CARRYING OUT THE METHOD

Title (de)

VERFAHREN ZUR VERRIEGELUNG EINES AN EINEM LADEKABEL ANGEORDNETEN STECKERS MIT EINEM GEGENSTECKER UND LADESTATION ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)

PROCÉDÉ DE VERROUILLAGE D'UNE FICHE AGENCÉE SUR UN CÂBLE DE CHARGE SUR UNE FICHE HOMOLOGUE, ET STATION DE CHARGE POUR LA MISE EN OEUVRE DU PROCÉDÉ

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Application

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Priority

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Abstract (en)

[origin: WO2021069175A1] The invention relates to a method for locking a connection of a plug (10) to a mating plug (20) arranged on an electric vehicle (34). The plug (10) is arranged on a charging cable (31) which is connected to a charging post (30) of a charging station (36), in particular a charging cable (31) which is rigidly connected to a charging post (30) of a charging station (30). The plug (10) is paired with a first locking element (11), and the mating plug (20) is paired with a second locking element (21), wherein the first locking element (11) and the second locking element (21) interact in order to lock the connection between the plug (10) and the mating plug (20), and each element has an activated state and a deactivated state. The method has the steps of: - operating the first locking element (11) paired with the plug (10) in an activated state in a first operating mode of the charging station (30) in order to lock the connection between the plug (10) and the mating plug (20) when the second locking element (21) paired with the mating plug (20) is activated and - operating the first locking element (11) paired with the plug (10) in a deactivated state in a second operating mode of the charging station (30) in order to unlock the connection between the plug (10) and the mating plug (20) when the second locking element (21) paired with the mating plug (20) is activated. The invention additionally relates to a charging station which is suitable for and designed to carry out the method.

IPC 8 full level

B60L 53/16 (2019.01)

CPC (source: EP US)

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Citation (search report)

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