

Title (en)
DEVICE FOR GENERATING A MAGNETIC FIELD, IN PARTICULAR FOR AN INDUCTIVE CHARGING SYSTEM, AND PRIMARY DEVICE OF AN INDUCTIVE CHARGING SYSTEM FOR DYNAMICALLY CHARGING VEHICLES

Title (de)
VORRICHTUNG ZUM ERZEUGEN EINES MAGNETFELDS, INSBESONDERE FÜR EIN INDUKTIVES LADESYSTEM, UND PRIMÄREINRICHTUNG EINES INDUKTIVEN LADESYSTEMS ZUM DYNAMISCHEN AUFLADEN VON FAHRZEUGEN

Title (fr)
DISPOSITIF DE GÉNÉRATION D'UN CHAMP MAGNÉTIQUE, NOTAMMENT POUR UN SYSTÈME DE CHARGE INDUCTIF, ET DISPOSITIF PRIMAIRE D'UN SYSTÈME DE CHARGE INDUCTIF POUR LA CHARGE DYNAMIQUE DE VÉHICULES

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Abstract (en)
[origin: WO2019161921A1] The invention relates to an apparatus for generating a magnetic field, in particular for a primary device of an inductive charging system, and a primary device of an inductive charging system for non-contact inductive energy transfer to means of transport. With the aim of generating a constant magnetic field in a particular direction of travel, the apparatus is provided with at least one electrical conductor for generating the magnetic field, a feeding unit for generating an alternating current for the at least one electrical conductor, and a detection unit for detecting a secondary charging system. Said apparatus is characterised by a communication unit for sending and receiving data to/from an apparatus of the same kind, wherein the apparatus is designed to control the signal control unit by means of the detection unit and/or by means of the received data and thus control the generation of the magnetic field for inductive energy transfer. The primary device has a plurality of apparatuses connected to one another for generating a magnetic field, wherein the apparatuses have a plurality of electrical conductors for generating a magnetic field. The arrangement and the actuating of the electrical conductors of the apparatuses are designed such that a predefined magnetic field can be generated by some of the electrical conductors, and said magnetic field can be displaced with a constant movement by a corresponding actuation of the electrical conductors.

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