

Title (en)

ENERGY TRANSMISSION MODULE, TRANSMITTING UNIT, ENERGY TRANSMISSION SYSTEM, AND METHOD

Title (de)

ENERGIEÜBERTRAGUNGSMODUL, SENDEEINHEIT, ENERGIEÜBERTRAGUNGSSYSTEM UND VERFAHREN

Title (fr)

MODULE DE TRANSMISSION D'ÉNERGIE, UNITÉ DE TRANSMISSION, SYSTÈME DE TRANSMISSION D'ÉNERGIE ET PROCÉDÉ

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2022012980A1] The invention relates to an energy transmission module (14) for transmitting energy to a mobile device (12), in particular a hand-held machine tool, wherein the energy transmission is wireless, said energy transmission module comprising at least a first and a second transmission coil (20), wherein the first transmission coil (20) can be operated with a first alternating current and the second transmission coil (20) can be operated with a second alternating current, wherein the energy transmission module (14) is designed such that, at least during an energy transmission phase of the energy transmission module (14), the magnitude of the relative phase angle (beta) of the currents (itx1, itx2) flowing in the first and second transmission coils (20) is not more than 45°, particularly preferably not more than 15°, or the relative phase angle (beta) is minimised. The invention also relates to a transmitting unit (16), an energy transmission system (10), and a method (100) for operating at least one of the aforementioned devices. The invention makes it possible to transmit energy in a particularly convenient manner to one or more mobile devices (12), for example in order to charge energy stores of these mobile devices (12).

IPC 8 full level

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Citation (search report)

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