

Title (en)

ARRANGEMENT FOR CONVERTING MECHANICAL ENERGY INTO ELECTRIC ENERGY

Title (de)

ANORDNUNG ZUR UMWANDLUNG VON MECHANISCHER ENERGIE IN ELEKTRISCHE ENERGIE

Title (fr)

SYSTÈME DE CONVERSION D'ÉNERGIE MÉCANIQUE EN ÉNERGIE ÉLECTRIQUE

Publication

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Application

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Abstract (en)

[origin: WO2013040720A1] The invention relates to an arrangement for converting mechanical energy into electric energy which can be fed to a load, in particular an accumulator (1) or a power supply grid, comprising: - an electric machine (10), which has at least one permanent magnet and at least one phase conductor (11-13) with at least one coil, and - a control circuit (20) for controlling the electric machine (10) as a generator. The control circuit is designed to alternately short-circuit and release the at least one phase conductor (11-13) such that the at least one coil forms a part of a boost converter. Furthermore, the control circuit (20) is designed to control the electric machine (10) as a motor in order to drive the rotor of the electric machine during a standstill.

IPC 8 full level

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