

Title (en)

ENERGY RECOVERY IN ELECTROMECHANICAL MOTORS

Title (de)

ENERGIEWIEDERGEWINNUNG BEI ELEKTROMECHANISCHEN MOTOREN

Title (fr)

RECUPERATION D'ENERGIE DANS LES MOTEURS ELECTROMECHANIQUES

Publication

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Application

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Abstract (en)

[origin: WO02067411A1] In a method according to the present invention, charging and discharging of motor phases (10A, 10B) in an electromechanical motor is performed with a small voltage difference between the voltage source and the capacitive load of the motor phase (10A, 10B). This is accomplished by connecting a series of voltage sources (36), one at a time. Energy from the discharging operation is stored to be used in subsequent charging operations. In a device according to the present invention, the voltage sources (36) are provided by means of capacitive or induction voltage step-up or step-down circuits, e.g. charge-pumping. Preferably, switches (34) control the charging and discharging. In a preferred embodiment, the capacitance of one motor phase (10A) is used for storing charge resulting from the discharge from another motor phase (10B).

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