

Title (en)

ELECTROMECHANICAL MACHINE FOR REGULATING SUPPLIABLE ELECTRIC POWER

Title (de)

ELEKTROMECHANISCHE MASCHINE ZUR REGELUNG VON ZUFÜHRBAREM STROM

Title (fr)

MACHINE ÉLECTROMÉCANIQUE DESTINÉE À RÉGULER LA PUISSANCE ÉLECTRIQUE QUI PEUT ÊTRE FOURNIE

Publication

**EP 2649704 A2 20131016 (EN)**

Application

**EP 11799855 A 20111129**

Priority

- IT RM20100634 A 20101206
- IB 2011055363 W 20111129

Abstract (en)

[origin: WO2012077016A2] Electromechanical machine for regulating the characteristic parameters related to the voltage and to the current supplied to a load by an electrical energy source (6), comprising a primary electric motor (1), an alternator or dynamo (3), a primary motor / alternator coupling joint (2), and a regulation and control driver (5). Such motor (1) in turn comprises an oversized rotor (21) which rotates with regard to a stator (34', 34'') in order to provide, at the output, the rotation of a shaft (11) upstream of said alternator or dynamo (3). The rotor (21) is constituted as a rotating hollow disc with two semicircular concentric coils (34' and 34'') situated along the lateral profile and themselves forming the stator, whereas a sequence of housings for permanent magnets (22', 22'',..., 22n ) is arranged at the external circumference of the rotor (21). The rotor (21) is oversized in a manner such that the actuation of the primary motor through the drive shaft (11) produces a drive torque that is amplified, deriving benefit from the rotating mechanical system property according to which the moment and the rotation effect of a force are greater the larger the distance between the force action line and the rotation axis, with respect to which the moment is calculated.

IPC 8 full level

**H02K 1/14** (2006.01); **H02K 11/00** (2006.01); **H02K 21/14** (2006.01); **H02K 47/20** (2006.01)

CPC (source: EP)

**H02K 1/14** (2013.01); **H02K 11/25** (2016.01); **H02K 21/14** (2013.01); **H02K 47/20** (2013.01); **H02K 2201/15** (2013.01)

Citation (search report)

See references of WO 2012077016A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2012077016 A2 20120614**; **WO 2012077016 A3 20130704**; EP 2649704 A2 20131016; IT 1402977 B1 20130927; IT RM20100634 A1 20120607

DOCDB simple family (application)

**IB 2011055363 W 20111129**; EP 11799855 A 20111129; IT RM20100634 A 20101206