

Title (en)

ELECTRIC MACHINE WITH AN ASYMMETRIC ROTOR FOR USE IN A MOTOR VEHICLE

Title (de)

ELEKTRISCHE MASCHINE MIT EINEM ASYMMETRISCHEN ROTOR ZUR VERWENDUNG IN EINEM KRAFTFAHRZEUG

Title (fr)

MACHINE ÉLECTRIQUE À ROTOR ASYMÉTRIQUE POUR APPLICATION DANS UN VÉHICULE AUTOMOBILE

Publication

**EP 3221949 A2 20170927 (FR)**

Application

**EP 15805592 A 20151118**

Priority

- FR 1461265 A 20141120
- FR 2015053118 W 20151118

Abstract (en)

[origin: WO2016079427A2] The invention relates to an electric machine (10) and, for example, an electric motor with reluctance varied by permanent magnets, for use in a motor vehicle, in particular for an electric supercharger for a motor vehicle, comprising a rotor (12) and a stator (14) provided with radial teeth (16; 18), at least one of the rotor (12) and stator (14) having a cross-section which can be divided into angular segments (S1-S4) having the same angle at the centre and including a single radial tooth (161-164), at least one of the angular segments (S1-S4) being different from at least one of the other angular segments (S1-S4). The invention also relates to an electric supercharger for a motor vehicle, comprising a compression wheel and an electric machine(10) for rotating the compression wheel.

IPC 8 full level

**H02K 1/24** (2006.01); **H02K 5/24** (2006.01)

CPC (source: EP)

**H02K 1/246** (2013.01); **H02K 5/24** (2013.01)

Citation (search report)

See references of WO 2016079427A2

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 2016079427 A2 20160526; WO 2016079427 A3 20160818**; EP 3221949 A2 20170927; FR 3029027 A1 20160527; FR 3029027 B1 20180119

DOCDB simple family (application)

**FR 2015053118 W 20151118**; EP 15805592 A 20151118; FR 1461265 A 20141120