

Title (en)  
ELECTRICAL MACHINE

Title (de)  
ELEKTRISCHE MASCHINE

Title (fr)  
MACHINE ÉLECTRIQUE

Publication  
**EP 3235108 A2 20171025 (FR)**

Application  
**EP 15823351 A 20151214**

Priority  
• FR 1462970 A 20141219  
• FR 2015053485 W 20151214

Abstract (en)  
[origin: WO2016097564A2] The electrical machine (100) comprises: a stator (102) comprising at least two pairs of stator teeth, a rotor (104) and, for each pair of stator teeth (110, 112, 114, 116), at least one coil (118, 120, 122, 124) wound around a respective stator tooth (110, 112, 114, 116), the coil or coils being intended to generate a magnetic flux spreading from one stator tooth (110, 112, 114, 116) to the other. The electric machine (100) further comprises one or more magnetic flux diversion pieces (130) intended, for each pair of stator teeth (110, 112, 114, 116) and when the coil or coils (118, 120, 122, 124) of the pair of stator teeth (110, 112, 114, 116) is/are generating magnetic flux, to capture a first part (132) of the magnetic flux so that it spreads from one stator tooth (110, 112, 114, 116) to the other avoiding the rotor (104), whereas second part (134) of the magnetic flux spreads from one stator tooth (110, 112, 114, 116) to the other passing via a pair of rotor teeth (126, 128) so as to apply driving torque to the rotor (104).

IPC 8 full level  
**H02K 3/493** (2006.01); **H02K 1/24** (2006.01); **H02K 5/24** (2006.01); **H02K 19/10** (2006.01); **H02K 19/20** (2006.01)

CPC (source: EP)  
**H02K 3/493** (2013.01); **H02K 19/103** (2013.01); **H02K 1/246** (2013.01); **H02K 5/24** (2013.01); **H02K 19/20** (2013.01)

Citation (search report)  
See references of WO 2016097564A2

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 2016097564 A2 20160623**; **WO 2016097564 A3 20160818**; EP 3235108 A2 20171025; FR 3030924 A1 20160624; FR 3030924 B1 20180223

DOCDB simple family (application)  
**FR 2015053485 W 20151214**; EP 15823351 A 20151214; FR 1462970 A 20141219