

Title (en)  
ELECTRIC MOTOR

Title (de)  
ELEKTROMOTOR

Title (fr)  
MOTEUR ÉLECTRIQUE

Publication  
**EP 2834909 A2 20150211 (DE)**

Application  
**EP 13716244 A 20130403**

Priority  
• DE 102012205421 A 20120403  
• EP 2013056980 W 20130403

Abstract (en)  
[origin: WO2013150048A2] The present invention relates to an electric motor (3) having a rotor (7) and a stator (8), which are arranged concentrically in relation to an axis of rotation (11) and can be adjusted rotationally about the axis of rotation (11) in relation to one another, wherein the electric motor (3) is designed as an external rotor motor in which the rotor forms an external rotor (7) and the stator forms an internal stator (8), or is designed as an internal rotor motor in which the stator forms an external stator (8) and the rotor forms an internal rotor (7), wherein the rotor (7) has at least two permanent magnets (12), and wherein the stator (8) has at least two pole arms (16, 17) and at least one electric coil (18). Start-up is simplified if the rotor (7) has a symmetrical design in the circumferential direction (13) and if the stator (8) has an asymmetrical design in the circumferential direction (13).

IPC 8 full level  
**H02K 21/22** (2006.01); **H02K 29/03** (2006.01)

CPC (source: EP US)  
**H02K 1/14** (2013.01 - US); **H02K 21/222** (2013.01 - EP US); **H02K 29/03** (2013.01 - EP US); **H02K 2201/03** (2013.01 - EP US)

Citation (search report)  
See references of WO 2013150048A2

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)  
**DE 102012205421 A1 20131010**; EP 2834909 A2 20150211; US 2015054379 A1 20150226; US 9859760 B2 20180102;  
WO 2013150048 A2 20131010; WO 2013150048 A3 20140807

DOCDB simple family (application)  
**DE 102012205421 A 20120403**; EP 13716244 A 20130403; EP 2013056980 W 20130403; US 201314390386 A 20130403