

Title (en)

ELECTRIC MACHINE WITH FLUX SWITCHING WITH SIMPLE EXCITATION

Title (de)

ELEKTRISCHE MASCHINE MIT KOMMUTIERUNG DES MAGNETFLUSSES MIT EINFACHER ANREGUNG

Title (fr)

MACHINE ELECTRIQUE A COMMUTATION DE FLUX A SIMPLE EXCITATION

Publication

EP 3308452 A1 20180418 (FR)

Application

EP 16729235 A 20160608

Priority

- FR 1555264 A 20150609
- EP 2016062962 W 20160608

Abstract (en)

[origin: WO2016198422A1] The proposed invention is an electric machine with flux switching comprising:- a movable element (20), comprising a plurality of flux switching teeth, and - a stator (10), comprising a plurality of teeth, excitation coils (15) and armature coils, characterized in that the stator is formed of a succession of elementary cells each comprising: - three teeth, comprising a central tooth (120) and two lateral teeth (121), delimiting therebetween two central notches (140), an excitation coil being housed in the central notches and wound around the central tooth, and - two lateral half-notches (141) on either side of the lateral teeth, each half-notch housing at least in part an armature coil, in such a way that two successive elementary cells share a common lateral notch.

IPC 8 full level

H02K 19/10 (2006.01); **H02K 1/14** (2006.01); **H02K 1/16** (2006.01); **H02K 21/04** (2006.01); **H02K 21/44** (2006.01); **H02K 41/03** (2006.01)

CPC (source: EP US)

H02K 1/148 (2013.01 - EP); **H02K 1/16** (2013.01 - EP); **H02K 1/17** (2013.01 - US); **H02K 19/103** (2013.01 - EP); **H02K 21/046** (2013.01 - EP); **H02K 21/40** (2013.01 - US); **H02K 21/44** (2013.01 - EP); **H02K 41/03** (2013.01 - EP); **H02K 41/033** (2013.01 - EP US); **H02K 29/03** (2013.01 - US); **H02K 2201/15** (2013.01 - EP); **H02K 2213/03** (2013.01 - US); **H02K 2213/12** (2013.01 - EP)

Citation (search report)

See references of WO 2016198422A1

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 2016198422 A1 20161215; EP 3308452 A1 20180418; FR 3037450 A1 20161216; FR 3037450 B1 20170721; US 2020036242 A1 20200130

DOCDB simple family (application)

EP 2016062962 W 20160608; EP 16729235 A 20160608; FR 1555264 A 20150609; US 201615735124 A 20160608