

Title (en)  
ROTOR OF AN ELECTRIC MACHINE

Title (de)  
ROTOR EINER ELEKTRISCHEN MASCHINE

Title (fr)  
ROTOR DE MACHINE ÉLECTRIQUE

Publication  
**EP 2499718 A1 20120919 (DE)**

Application  
**EP 10771660 A 20101019**

Priority  
• DE 102009052596 A 20091110  
• EP 2010006386 W 20101019

Abstract (en)  
[origin: WO2011057703A1] The invention relates to a rotor (1) of an electric machine, which is formed from individual segments (2), wherein each individual segment (2) comprises a first part (4), which in the assembled state is in contact with a second corresponding part (5) of the adjacent individual segment. The first part (4) of the individual segment and the second corresponding part (5) of the adjacent individual segment are designed such that a positive engagement between the first part (4) and the second part (5) is produced in the radial direction and in the circumferential direction. By means of the positive engagement in the radial direction and in the circumferential direction, a self-supporting annular structure of the assembled rotor (1) is formed. No further fastenings or holding devices are therefore required for joining all the individual segments (2) to form a ring.

IPC 8 full level  
**H02K 1/27** (2006.01); **H02K 15/03** (2006.01)

CPC (source: EP US)  
**H02K 1/274** (2013.01 - EP US); **H02K 15/03** (2013.01 - EP US)

Citation (search report)  
See references of WO 2011057703A1

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

DOCDB simple family (publication)  
**DE 102009052596 A1 20110512**; CN 102598477 A 20120718; EP 2499718 A1 20120919; JP 2013510554 A 20130321;  
JP 5619909 B2 20141105; US 2012206006 A1 20120816; US 9825494 B2 20171121; WO 2011057703 A1 20110519

DOCDB simple family (application)  
**DE 102009052596 A 20091110**; CN 201080050904 A 20101019; EP 10771660 A 20101019; EP 2010006386 W 20101019;  
JP 2012538210 A 20101019; US 201213459152 A 20120428