

Title (en)
INTERNALLY EXCITED SYNCHRONOUS MOTOR COMPRISING A PERMANENT MAGNET ROTOR WITH MULTIPLE CORROSION PROTECTION

Title (de)
INTERN ERREGTER SYNCHRONMOTOR MIT MEHRFACH KORROSIONSGESCHÜTZTEM PERMANENTMAGNETROTOR

Title (fr)
MOTEUR SYNCHRONE À EXCITATION INTERNE ÉQUIPÉ D'UN ROTOR À AIMANTS PERMANENTS PRÉSENTANT UNE PROTECTION ANTICORROSION MULTIPLE

Publication
EP 2678921 A2 20140101 (DE)

Application
EP 11705462 A 20110224

Priority
EP 2011000911 W 20110224

Abstract (en)
[origin: WO2012113416A2] A module (10) for a rotor of an electric machine, said rotor being excited by means of permanent magnets (200) and rotating in a fluid medium, wherein the module (10) contains a cylindrical, active part which has a plurality of circular soft-magnetic laminations (100) combined to form a laminate stack (20) and having a central opening (110) for receiving a rotor shaft (30); wherein at least two permanent magnets (200), protected from the liquid medium, are arranged in at least two corresponding cutouts (120) in the laminate stack (20), and wherein the cutouts (120) are formed beneath a cylindrical circumferential surface of the laminate stack (20).

IPC 8 full level
H02K 5/128 (2006.01); **H02K 1/04** (2006.01); **H02K 1/27** (2006.01); **H02K 15/03** (2006.01); **H02K 15/12** (2006.01); **H02K 21/14** (2006.01)

CPC (source: EP US)
H02K 1/04 (2013.01 - EP US); **H02K 1/276** (2013.01 - EP US); **H02K 5/128** (2013.01 - EP US); **H02K 5/132** (2013.01 - US)

Citation (search report)
See references of WO 2012113416A2

Citation (examination)

- JP 2003259578 A 20030912 - EBARA DENSAN LTD
- EP 0552365 A1 19930728 - SEIKO EPSON CORP [JP]
- EP 1657800 A1 20060517 - GRUNDFOS AS [DK]

Citation (third parties)
Third party :

- JP 2003259578 A 20030912 - EBARA DENSAN LTD
- EP 0552365 B1 19961106 - SEIKO EPSON CORP [JP]
- EP 1657800 B1 20070808 - GRUNDFOS AS [DK]

Cited by
CN112602256A

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)
WO 2012113416 A2 20120830; WO 2012113416 A3 20130110; AU 2011359891 A1 20130905; BR 112013020591 A2 20161018; CN 103503281 A 20140108; EP 2678921 A2 20140101; RU 2013143157 A 20150327; US 2014054985 A1 20140227

DOCDB simple family (application)
EP 2011000911 W 20110224; AU 2011359891 A 20110224; BR 112013020591 A 20110224; CN 201180070353 A 20110224; EP 11705462 A 20110224; RU 2013143157 A 20110224; US 201114001461 A 20110224