

Title (en)

CORONA SHIELDING STRIP FOR A HIGH-VOLTAGE ROTATING ELECTRIC MACHINE, USE THEREOF, AND ELECTRIC MACHINE

Title (de)

GLIMMSCHUTZBAND FÜR ROTIERENDE ELEKTRISCHE HOCHSPANNUNGSMASCHINE, VERWENDUNG DAZU UND ELEKTRISCHE MASCHINE

Title (fr)

BANDE DE PROTECTION ANTI-EFFLUVES D'UNE MACHINE ÉLECTRIQUE TOURNANTE À HAUTE TENSION, SON UTILISATION, ET MACHINE ÉLECTRIQUE

Publication

EP 4208882 A1 20230712 (DE)

Application

EP 21805895 A 20211102

Priority

- EP 20205914 A 20201105
- EP 2021080326 W 20211102

Abstract (en)

[origin: WO2022096429A1] The invention relates to a corona shielding strip, in particular a reactive corona shielding strip, for a high-voltage rotating electric machine, comprising an insulation system that can be produced by means of a vacuum pressure impregnation (VPI) process, wherein, owing to concerns about the sensitising effect of anhydrides on the respiratory tract, the impregnation agent for impregnating the corona shielding strip in the VPI process is preferably anhydride-free. Based on the new generation of insulation systems, which can be produced by impregnation with anhydride-free impregnation agents, the present invention discloses for the first time a corona shielding strip in which a strip accelerator that initiates homopolymerisation quickly can be placed. The strip accelerator is in the form of a salt of a superacid and is storage-stable for up to 6 months in a corona shielding strip that contains, at least in part, polyvinyl alcohol as a polymer matrix.

IPC 8 full level

H01B 3/40 (2006.01); **C08K 3/22** (2006.01); **C08K 5/00** (2006.01); **C08K 5/24** (2006.01); **C08K 5/36** (2006.01); **C08K 5/372** (2006.01); **C08K 9/02** (2006.01); **H01B 3/04** (2006.01)

CPC (source: EP US)

C08K 5/372 (2013.01 - EP); **C08K 9/02** (2013.01 - EP); **C09J 7/21** (2017.12 - US); **C09J 7/30** (2017.12 - US); **C09J 9/02** (2013.01 - US); **C09J 11/04** (2013.01 - US); **C09J 11/06** (2013.01 - US); **H01B 3/04** (2013.01 - EP); **H01B 3/40** (2013.01 - EP); **H02K 3/30** (2013.01 - US); **H02K 3/40** (2013.01 - US); **C08K 3/22** (2013.01 - EP); **C08K 2201/001** (2013.01 - EP); **C09J 2203/326** (2013.01 - US); **C09J 2301/408** (2020.08 - US); **C09J 2301/414** (2020.08 - US); **C09J 2429/00** (2013.01 - US); **C09J 2463/00** (2013.01 - US)

Citation (search report)

See references of WO 2022096429A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 3996113 A1 20220511; CN 116368183 A 20230630; EP 4208882 A1 20230712; US 2024006948 A1 20240104; WO 2022096429 A1 20220512

DOCDB simple family (application)

EP 20205914 A 20201105; CN 202180074618 A 20211102; EP 2021080326 W 20211102; EP 21805895 A 20211102; US 202118251492 A 20211102