

Title (en)
HIGH-VOLTAGE INSULATOR

Title (de)
HOCHSPANNUNGSISOLATOR

Title (fr)
ISOLATEUR À HAUTE TENSION

Publication
EP 2245639 B1 20111102 (DE)

Application
EP 09712010 A 20090217

Priority
• EP 2009051840 W 20090217
• EP 08151725 A 20080221
• EP 09712010 A 20090217

Abstract (en)
[origin: WO2009103696A1] The high-voltage insulator contains a metal armature (2), an insulating tube (1) which is joined to the metal armature and is adhesively bonded to the metal armature at an end in the form of a bearing ring (10), and an axially symmetrical adhesive-bonding joint which is guided around the axis (A) of the insulating tube. An annular groove (23) which is guided around the axis of the insulating tube and receives an end section of the bearing ring is formed in the metal armature. A respective sealing surface (24, 13) is formed in the groove (23) and in the bearing ring (10). The two sealing surfaces are arranged and formed in such a manner that they slide on one another when joining the insulating tube (1) and the metal armature (2) so as to form a seal, and the bearing ring (10) which acts as a displacement body presses adhesive (32), which has been introduced into the groove (23), into the adhesive-bonding joint before joining. The insulator and a cooling element containing this insulator are simple to produce and are distinguished by a leakage rate of less than 10⁻⁹ [bar l/s] and by great operational reliability even after many years of operation with a large mechanical, electrical, thermal and chemical load.

IPC 8 full level
H01B 17/38 (2006.01); **H01B 17/54** (2006.01)

CPC (source: EP US)
H01B 17/54 (2013.01 - EP US); **H01B 17/38** (2013.01 - EP US)

Designated contracting state (EPC)
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 SE SI SK TR

DOCDB simple family (publication)
WO 2009103696 A1 20090827; AT E532187 T1 20111115; CN 101952907 A 20110119; CN 101952907 B 20120425; EP 2245639 A1 20101103; EP 2245639 B1 20111102; JP 2011512634 A 20110421; JP 5265706 B2 20130814; US 2011030994 A1 20110210; US 8278557 B2 20121002

DOCDB simple family (application)
EP 2009051840 W 20090217; AT 09712010 T 20090217; CN 200980106598 A 20090217; EP 09712010 A 20090217; JP 2010547160 A 20090217; US 86055010 A 20100820