

Title (en)  
Feedthrough insulator for electrical transformers

Title (de)  
Durchführungsisolator für elektrische Wandler

Title (fr)  
Isolant de traversée pour transformateurs électriques

Publication  
**EP 1865517 A3 20090506 (EN)**

Application  
**EP 07109028 A 20070528**

Priority  
IT VI20060166 A 20060605

Abstract (en)  
[origin: EP1865517A2] A feedthrough insulator (10) for electrical transformers, comprising an insulating body (18), which includes an outer portion (14), to be arranged in air, coupled with an inner portion (15) in the electrical transformer tank, in which the outer and inner insulating portions (14, 15) are crossed axially by a metallic tie rod (11), which acts as an electrical conductor. In particular, the outer insulating portion (14) has a series of fins (17), positioned close together and suitably sized, in order to obtain high dielectric characteristics; moreover, at least one part of the entire insulating body (18) has a combined insulating coating, formed from the coupling of a layer of silicon, covering the underlying epoxy resin, which, in turn, surrounds the electrical conductor (11). Inside the epoxy resin a metallic screen (19) is also embedded, provided with arms (20), which has the dual purpose of screening the metallic attachment components and the support base (21), for example on the tank of the transformer, and of being used as condenser for the capacitive intakes, consisting of the aforementioned arms (20).

IPC 8 full level  
**H01B 17/26** (2006.01)

CPC (source: EP)  
**H01B 17/42** (2013.01); **H01B 17/28** (2013.01)

Citation (search report)  
• [X] WO 2005006355 A1 20050120 - ABB RESEARCH LTD [CH], et al  
• [X] US 2002104679 A1 20020808 - KROL ROBERT A [US], et al  
• [A] WO 9732318 A1 19970904 - RAMKIW AB [SE], et al  
• [A] JP H02148627 A 19900607 - MEIDENSHA ELECTRIC MFG CO LTD

Cited by  
EP2276041A1; CN102473490A; EP2276040A1; CN102473489A; WO2011006716A1; WO2011006720A1; US8366484B2; WO2010070321A1

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DOCDB simple family (publication)  
**EP 1865517 A2 20071212; EP 1865517 A3 20090506**; BR PI0701670 A 20080219; IT VI20060166 A1 20071206; RU 2007120613 A 20081210; RU 2455717 C2 20120710; UA 91525 C2 20100810

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