

Title (en)

Multi-layered insulated wire for high frequency transformer winding.

Title (de)

Mehrlagig isolierter Draht für Hochfrequenz Transformatorenwindung.

Title (fr)

Fil isolé à couches multiples pour enroulement de transformateur à haute fréquence.

Publication

**EP 0684617 A3 19960925 (EN)**

Application

**EP 95113100 A 19920819**

Priority

EP 92307575 A 19920819

Abstract (en)

[origin: EP0673044A2] A bundled conductor manufactured by bundling a plurality of small diameter conductors 1, or a bundled conductor 2 manufactured by giving an extremely rough twisting pitch, which is 20 times or more larger than an outer diameter of said bundled conductor, to the bundled conductor is formed. Then, an insulating layer 3 comprising 3 layers 3a, 3b and 3c, each comprising a heat-resistant plastic film, is arranged around the bundled conductor above. A required voltage resistance characteristics is provided and maintained by any 2 of the aforesaid 3 insulating layers, and each of the 3 insulating layers described above is independent respectively and can be separated from other ones. The multi-layered insulated wire constructed as described above is available as an insulated electric wire for a winding to be used in a transformer which satisfies various requirements for safety such as IEC and UL, and with this multi-layered insulated wire it is possible to suppress heat emission in a high frequency switching transformer. <IMAGE>

IPC 1-7

**H01F 27/28**; **H01F 27/32**

IPC 8 full level

**H01B 7/02** (2006.01); **H01F 27/32** (2006.01)

CPC (source: EP)

**H01B 7/0241** (2013.01); **H01B 7/0275** (2013.01); **H01F 27/323** (2013.01)

Citation (search report)

- [A] EP 0258036 A2 19880302 - CARLISLE CORP [US]
- [A] GB 2230208 A 19901017 - SANKEN ELECTRIC CO LTD [JP]
- [DA] EP 0460506 A2 19911211 - SANKEN ELECTRIC CO LTD [JP], et al

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0673044 A2 19950920**; **EP 0673044 A3 19951018**; **EP 0673044 B1 19970122**; DE 69210398 D1 19960605; DE 69210398 T2 19961024; DE 69210398 T3 20030605; EP 0684617 A2 19951129; EP 0684617 A3 19960925; EP 0684617 B1 19981111

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**EP 95108611 A 19920819**; DE 69210398 T 19920819; EP 95113100 A 19920819