

Title (en)

Process for manufacturing a lightning arrester, and lightning arrester obtained by this process.

Title (de)

Verfahren zur Herstellung eines Blitzableiters und durch dieses Verfahren hergestellter Blitzableiter.

Title (fr)

Procédé de fabrication d'un parafoudre et parafoudre obtenu par ce procédé.

Publication

EP 0274674 A1 19880720 (FR)

Application

EP 87118254 A 19871209

Priority

FR 8617424 A 19861212

Abstract (en)

[origin: US4833438A] A double molded over method of manufacturing a lightning arrester in which a central core 1 is made of zinc oxide in a first step, then two metal end fittings 5, 6 are molded onto the end faces and over the side thereof, and finally a coating of elastomer material 7 is molded around the side wall of the central core and over side portions of the end fittings. The core may be formed of a plurality of smaller section bars of zinc oxide regularly disposed about a longitudinal axis with the end fittings molded onto the end faces and about the sides of the end bars whose end faces are partially metallized. In a further variant, a stack of zinc oxide based pellets having the same cross-sectional area as the core in the first example, with the stack having the same overall length as the core if stiffened by thermal compression with fusible metal inserted between pairs of pellets. The stack assembly is then compressed mechanically in conjunction with heat treatment to effect very good mechanical bonding. The core assembly formed thereby is treated as above.

Abstract (fr)

Procédé de fabrication d'un parafoudre selon lequel on part d'une âme centrale (1) en oxyde de zinc, on surmoule deux ferrures métalliques (5, 6) sur ses extrémités, et on surmoule une enveloppe (7) en matériau élastomère sur sa paroi latérale et une portion desdites ferrures.

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IPC 8 full level

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CPC (source: EP US)

H01C 7/12 (2013.01 - EP US); **Y10T 29/49087** (2015.01 - EP US); **Y10T 29/49101** (2015.01 - EP US)

Citation (search report)

- [X] EP 0196370 A1 19861008 - BBC BROWN BOVERI & CIE [CH]
- [A] EP 0079569 A1 19830525 - ELECTRIC POWER RES INST [US]
- [XP] EP 0217021 A1 19870408 - BBC BROWN BOVERI & CIE [CH]
- [A] DE 3505862 A1 19860821 - SIEMENS AG [DE]
- [A] DE 3002014 A1 19810723 - BRAGINSKIJ ROMAN PAVLOVIC, et al
- [AD] GB 2073965 A 19811021 - BOWTHORPE EMP LTD

Cited by

EP0406099A1; FR2649243A1; US8629751B2; WO2013103494A1

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