

Title (en)

METHOD FOR MANUFACTURING EPOXY RESIN-EMBEDDED WINDINGS FOR TRANSFORMERS

Publication

EP 0172494 B1 19880713 (DE)

Application

EP 85109937 A 19850807

Priority

DE 3430586 A 19840820

Abstract (en)

[origin: EP0172494A1] 1. Method for manufacturing coils, embedded in cast resin, for transformers, - according to which, spools (1), lying one behind another in the axial direction, of the coil are wound each for itself and independently of one another, - according to which, one insulating material mat respectively, serves, in a radial direction, as a brace (2, 3) between an inner casing (5) of the casting mould and the spools (1), as well as between the spools (1) and an outer casing (6) of the casting mould, - according to which, the spools (1) are fixed in an axial direction by frictional contact on the inner brace (2), - according to which, the inner (5) and the outer casing (6) of the casting mould are fixed between mould end walls (10), - according to which, casting with a horizontal mould in an evacuated chamber, follows through a slit (8), parallel to the axis, in the outer casing (6) of the casting mould, and - according to which, the hardening of the cast resin mass follows, at least partly, in the mould with increased temperature and with atmospheric or higher pressure, characterised in that, - the insulating material mats comprise fabric of non-twisted loose glass fibre bundles (15, 16), crossed and impregnated with hardenable artificial resin, - individual threads (17), twisted in themselves, of shrinkable artificial resin are worked into this fabric along zig-zag lines lying substantially in the fabric plane, - the twisted threads (17) in the insulating material mat shrink, during the hardening of the artificial resin mass, introduced through the impregnating, before the insulating material mat is brought into the casting mould, and telescope the glass fibre bundles (15, 16) at their intersections, lying in the points of the zig-zag line, to form knotlike swellings, and in that, - these swellings clamp the spools (1) in the casting mould.

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H01F 41/12

IPC 8 full level

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CPC (source: EP KR)

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Cited by

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