

Title (en)

Single coil constitutive of windings for air-core transformer

Title (de)

Elektrische Spule bestehend aus Wicklungen für Trockentransformatoren

Title (fr)

Bobine électrique élémentaire constitutive d'enroulements pour transformateurs secs

Publication

EP 0923783 A1 19990623 (FR)

Application

EP 96930208 A 19960904

Priority

FR 9601353 W 19960904

Abstract (en)

[origin: WO9810445A1] The single coil (27) has a straight cross section generally square or rectangular in shape and comprises an insulating resin shell (29) encapsulating an assembly of serial turns (30) formed by a wire conductor (2) with dielectric sheath (3), coiled in layers of longitudinal or radial turns, the number of which is based on the thickness of the sheath (3) such that the voltage between two contiguous turns but most distant electrically does not exceed, for a set input voltage of the coil, a breakdown voltage value (Td) supplied by the application in the air of Paschen's law to the said sheathed conductor. In particular complete windings (38) for air-core transformers can thereby be produced by simply stacking single coils of this type, while retaining air as dielectric medium in the spaces between the turns.

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